

Appendix E

Greenhouse Gas Emissions Modeling Results



8555 Santa Monica Blvd - Proposed Project
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|--------|---------------|-------------|--------------------|------------|
| Apartments Mid Rise | 109.00 | Dwelling Unit | 1.26 | 109,000.00 | 170 |
| General Office Building | 6.08 | 1000sqft | 0.00 | 6,079.00 | 0 |
| Strip Mall | 15.68 | 1000sqft | 0.00 | 15,678.00 | 0 |
| High Turnover (Sit Down Restaurant) | 2.82 | 1000sqft | 0.00 | 2,820.00 | 0 |
| Enclosed Parking with Elevator | 350.00 | Space | 0.00 | 140,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|----------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33 |
| Climate Zone | 11 | | | Operational Year | 2019 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MWhr) | 630.89 | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity (lb/MWhr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 97 apts + 12 live work = 109 apts. Hair salon (3,718) added to reatil (15,678), site size 1.26 ac, pop of 170

Construction Phase - 1 mo demo, 4 mo excavation, 14 mo construction, 3 mo paving and coating

Grading - 49800 CY export

Demolition - 31116 sf of existing res. and com. uses on-site

Architectural Coating - per green building checklist - providing no-VOC paints (<= 5 g/L) on interior applications

Vehicle Trips - Rates per traffic study (Fehr & Peers, 2016)

Woodstoves - no hearths per site plans

Area Coating - no-VOC interior paints per green building checklist

Construction Off-road Equipment Mitigation -

Energy Mitigation -

| Table Name | Column Name | Default Value | New Value |
|-------------------------|----------------------------|---------------|-----------|
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 5.00 |
| tblArchitecturalCoating | EF_Residential_Interior | 50.00 | 5.00 |
| tblConstructionPhase | NumDays | 10.00 | 56.00 |
| tblConstructionPhase | NumDays | 200.00 | 304.00 |
| tblConstructionPhase | NumDays | 20.00 | 22.00 |
| tblConstructionPhase | NumDays | 4.00 | 86.00 |
| tblFireplaces | FireplaceDayYear | 25.00 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.00 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 1,019.20 | 0.00 |
| tblFireplaces | NumberGas | 92.65 | 0.00 |
| tblFireplaces | NumberNoFireplace | 10.90 | 109.00 |
| tblFireplaces | NumberWood | 5.45 | 0.00 |
| tblGrading | MaterialExported | 0.00 | 49,800.00 |
| tblLandUse | LandUseSquareFeet | 6,080.00 | 6,079.00 |
| tblLandUse | LandUseSquareFeet | 15,680.00 | 15,678.00 |

| | | | |
|---------------------------|--------------------|--------|--------|
| tblLandUse | LotAcreage | 2.87 | 1.26 |
| tblLandUse | LotAcreage | 0.14 | 0.00 |
| tblLandUse | LotAcreage | 0.36 | 0.00 |
| tblLandUse | LotAcreage | 0.06 | 0.00 |
| tblLandUse | LotAcreage | 3.15 | 0.00 |
| tblLandUse | Population | 312.00 | 170.00 |
| tblProjectCharacteristics | OperationalYear | 2014 | 2019 |
| tblVehicleTrips | WD_TR | 6.59 | 6.65 |
| tblVehicleTrips | WD_TR | 11.01 | 11.03 |
| tblWoodstoves | NumberCatalytic | 5.45 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 5.45 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 25.00 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 999.60 | 0.00 |

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 1.2569 | 0.0131 | 1.1345 | 6.0000e-005 | | 6.2100e-003 | 6.2100e-003 | | 6.2100e-003 | 6.2100e-003 | 0.0000 | 1.8455 | 1.8455 | 1.8300e-003 | 0.0000 | 1.8838 |
| Energy | 8.0500e-003 | 0.0710 | 0.0455 | 4.4000e-004 | | 5.5600e-003 | 5.5600e-003 | | 5.5600e-003 | 5.5600e-003 | 0.0000 | 589.5097 | 589.5097 | 0.0250 | 6.3100e-003 | 591.9898 |
| Mobile | 0.9132 | 2.4566 | 9.5958 | 0.0250 | 1.6514 | 0.0361 | 1.6876 | 0.4424 | 0.0333 | 0.4757 | 0.0000 | 1,827.9409 | 1,827.9409 | 0.0705 | 0.0000 | 1,829.4206 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 21.4785 | 0.0000 | 21.4785 | 1.2693 | 0.0000 | 48.1346 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 3.2359 | 56.7835 | 60.0195 | 0.3350 | 8.3900e-003 | 69.6541 |
| Total | 2.1782 | 2.5408 | 10.7757 | 0.0255 | 1.6514 | 0.0479 | 1.6993 | 0.4424 | 0.0451 | 0.4874 | 24.7144 | 2,476.0796 | 2,500.7940 | 1.7016 | 0.0147 | 2,541.0830 |

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 | 1.2569 | 0.0131 | 1.1345 | 6.0000e-005 | | 6.2100e-003 | 6.2100e-003 | | 6.2100e-003 | 6.2100e-003 | 0.0000 | 1.8455 | 1.8455 | 1.8300e-003 | 0.0000 | 1.8838 |
| Energy | 8.0500e-003 | 0.0710 | 0.0455 | 4.4000e-004 | | 5.5600e-003 | 5.5600e-003 | | 5.5600e-003 | 5.5600e-003 | 0.0000 | 564.6131 | 564.6131 | 0.0238 | 6.0700e-003 | 566.9959 |
| Mobile | 0.9132 | 2.4566 | 9.5958 | 0.0250 | 1.6514 | 0.0361 | 1.6876 | 0.4424 | 0.0333 | 0.4757 | 0.0000 | 1,827.9409 | 1,827.9409 | 0.0705 | 0.0000 | 1,829.4206 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 21.4785 | 0.0000 | 21.4785 | 1.2693 | 0.0000 | 48.1346 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 3.2359 | 56.7835 | 60.0195 | 0.3349 | 8.3800e-003 | 69.6489 |
| Total | 2.1782 | 2.5408 | 10.7757 | 0.0255 | 1.6514 | 0.0479 | 1.6993 | 0.4424 | 0.0451 | 0.4874 | 24.7144 | 2,451.1831 | 2,475.8975 | 1.7004 | 0.0145 | 2,516.0838 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.01 | 1.00 | 0.07 | 1.70 | 0.98 |

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 | 1/1/2017 | 1/31/2017 | 5 | 22 | |
| 2 | Grading | Grading | 2/1/2017 | 5/31/2017 | 5 | 86 | |
| 3 | Building Construction | Building Construction | 6/1/2017 | 7/31/2018 | 5 | 304 | |
| 4 | Paving | Paving | 8/1/2018 | 8/14/2018 | 5 | 10 | |
| 5 | Architectural Coating | Architectural Coating | 8/15/2018 | 10/31/2018 | 5 | 56 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 32.25

Acres of Paving: 0

Residential Indoor: 220,725; Residential Outdoor: 73,575; Non-Residential Indoor: 246,866; Non-Residential Outdoor: 82,289 (Architectural Coating – sqft)

OffRoad Equipment

| 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 | 1 | 6.00 | 9 | 0.56 |
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Cranes | 1 | 6.00 | 226 | 0.29 |
| Building Construction | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Paving | Pavers | 1 | 6.00 | 125 | 0.42 |
| Paving | Rollers | 1 | 7.00 | 80 | 0.38 |
| Demolition | Rubber Tired Dozers | 1 | 8.00 | 255 | 0.40 |
| Grading | Rubber Tired Dozers | 1 | 6.00 | 255 | 0.40 |
| Building Construction | Tractors/Loaders/Backhoes | 1 | 6.00 | 97 | 0.37 |
| Demolition | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |
| Grading | Tractors/Loaders/Backhoes | 1 | 7.00 | 97 | 0.37 |
| Paving | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Grading | Graders | 1 | 6.00 | 174 | 0.41 |
| Paving | Paving Equipment | 1 | 8.00 | 130 | 0.36 |
| Building Construction | Welders | 3 | 8.00 | 46 | 0.45 |

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 5 | 13.00 | 0.00 | 142.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 3 | 8.00 | 0.00 | 6,225.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 7 | 145.00 | 39.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 5 | 13.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 29.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2017

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 | | | | | 0.0153 | 0.0000 | 0.0153 | 2.3200e-003 | 0.0000 | 2.3200e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0299 | 0.2924 | 0.2296 | 2.7000e-004 | | 0.0177 | 0.0177 | | 0.0165 | 0.0165 | 0.0000 | 24.5232 | 24.5232 | 6.2200e-003 | 0.0000 | 24.6538 |
| Total | 0.0299 | 0.2924 | 0.2296 | 2.7000e-004 | 0.0153 | 0.0177 | 0.0330 | 2.3200e-003 | 0.0165 | 0.0188 | 0.0000 | 24.5232 | 24.5232 | 6.2200e-003 | 0.0000 | 24.6538 |

3.2 Demolition - 2017

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 | 1.2300e-003 | 0.0193 | 0.0153 | 5.0000e-005 | 1.2200e-003 | 2.7000e-004 | 1.4800e-003 | 3.3000e-004 | 2.5000e-004 | 5.8000e-004 | 0.0000 | 4.7646 | 4.7646 | 4.0000e-005 | 0.0000 | 4.7654 |
| 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 | 5.6000e-004 | 8.3000e-004 | 8.5900e-003 | 2.0000e-005 | 1.5700e-003 | 1.0000e-005 | 1.5800e-003 | 4.2000e-004 | 1.0000e-005 | 4.3000e-004 | 0.0000 | 1.4718 | 1.4718 | 8.0000e-005 | 0.0000 | 1.4735 |
| Total | 1.7900e-003 | 0.0201 | 0.0239 | 7.0000e-005 | 2.7900e-003 | 2.8000e-004 | 3.0600e-003 | 7.5000e-004 | 2.6000e-004 | 1.0100e-003 | 0.0000 | 6.2364 | 6.2364 | 1.2000e-004 | 0.0000 | 6.2388 |

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 | | | | | 6.8900e-003 | 0.0000 | 6.8900e-003 | 1.0400e-003 | 0.0000 | 1.0400e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0299 | 0.2924 | 0.2296 | 2.7000e-004 | | 0.0177 | 0.0177 | | 0.0165 | 0.0165 | 0.0000 | 24.5231 | 24.5231 | 6.2200e-003 | 0.0000 | 24.6538 |
| Total | 0.0299 | 0.2924 | 0.2296 | 2.7000e-004 | 6.8900e-003 | 0.0177 | 0.0246 | 1.0400e-003 | 0.0165 | 0.0176 | 0.0000 | 24.5231 | 24.5231 | 6.2200e-003 | 0.0000 | 24.6538 |

3.2 Demolition - 2017

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 | 1.2300e-003 | 0.0193 | 0.0153 | 5.0000e-005 | 1.2200e-003 | 2.7000e-004 | 1.4800e-003 | 3.3000e-004 | 2.5000e-004 | 5.8000e-004 | 0.0000 | 4.7646 | 4.7646 | 4.0000e-005 | 0.0000 | 4.7654 |
| 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 | 5.6000e-004 | 8.3000e-004 | 8.5900e-003 | 2.0000e-005 | 1.5700e-003 | 1.0000e-005 | 1.5800e-003 | 4.2000e-004 | 1.0000e-005 | 4.3000e-004 | 0.0000 | 1.4718 | 1.4718 | 8.0000e-005 | 0.0000 | 1.4735 |
| Total | 1.7900e-003 | 0.0201 | 0.0239 | 7.0000e-005 | 2.7900e-003 | 2.8000e-004 | 3.0600e-003 | 7.5000e-004 | 2.6000e-004 | 1.0100e-003 | 0.0000 | 6.2364 | 6.2364 | 1.2000e-004 | 0.0000 | 6.2388 |

3.3 Grading - 2017

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 | | | | | 0.2141 | 0.0000 | 0.2141 | 0.1090 | 0.0000 | 0.1090 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0810 | 0.8509 | 0.5667 | 6.0000e-004 | | 0.0458 | 0.0458 | | 0.0422 | 0.0422 | 0.0000 | 56.1413 | 56.1413 | 0.0172 | 0.0000 | 56.5025 |
| Total | 0.0810 | 0.8509 | 0.5667 | 6.0000e-004 | 0.2141 | 0.0458 | 0.2600 | 0.1090 | 0.0422 | 0.1512 | 0.0000 | 56.1413 | 56.1413 | 0.0172 | 0.0000 | 56.5025 |

3.3 Grading - 2017

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 | 0.0537 | 0.8443 | 0.6711 | 2.3200e-003 | 0.0533 | 0.0118 | 0.0651 | 0.0146 | 0.0109 | 0.0255 | 0.0000 | 208.8716 | 208.8716 | 1.5500e-003 | 0.0000 | 208.9042 |
| 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 | 1.3500e-003 | 1.9900e-003 | 0.0207 | 5.0000e-005 | 3.7700e-003 | 3.0000e-005 | 3.8000e-003 | 1.0000e-003 | 3.0000e-005 | 1.0300e-003 | 0.0000 | 3.5405 | 3.5405 | 1.9000e-004 | 0.0000 | 3.5445 |
| Total | 0.0551 | 0.8462 | 0.6918 | 2.3700e-003 | 0.0571 | 0.0118 | 0.0689 | 0.0156 | 0.0109 | 0.0265 | 0.0000 | 212.4121 | 212.4121 | 1.7400e-003 | 0.0000 | 212.4487 |

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 | | | | | 0.0964 | 0.0000 | 0.0964 | 0.0491 | 0.0000 | 0.0491 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0810 | 0.8509 | 0.5667 | 6.0000e-004 | | 0.0458 | 0.0458 | | 0.0422 | 0.0422 | 0.0000 | 56.1412 | 56.1412 | 0.0172 | 0.0000 | 56.5024 |
| Total | 0.0810 | 0.8509 | 0.5667 | 6.0000e-004 | 0.0964 | 0.0458 | 0.1422 | 0.0491 | 0.0422 | 0.0912 | 0.0000 | 56.1412 | 56.1412 | 0.0172 | 0.0000 | 56.5024 |

3.3 Grading - 2017

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 | 0.0537 | 0.8443 | 0.6711 | 2.3200e-003 | 0.0533 | 0.0118 | 0.0651 | 0.0146 | 0.0109 | 0.0255 | 0.0000 | 208.8716 | 208.8716 | 1.5500e-003 | 0.0000 | 208.9042 |
| 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 | 1.3500e-003 | 1.9900e-003 | 0.0207 | 5.0000e-005 | 3.7700e-003 | 3.0000e-005 | 3.8000e-003 | 1.0000e-003 | 3.0000e-005 | 1.0300e-003 | 0.0000 | 3.5405 | 3.5405 | 1.9000e-004 | 0.0000 | 3.5445 |
| Total | 0.0551 | 0.8462 | 0.6918 | 2.3700e-003 | 0.0571 | 0.0118 | 0.0689 | 0.0156 | 0.0109 | 0.0265 | 0.0000 | 212.4121 | 212.4121 | 1.7400e-003 | 0.0000 | 212.4487 |

3.4 Building Construction - 2017

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 | 0.2246 | 1.4523 | 1.0876 | 1.6700e-003 | | 0.0932 | 0.0932 | | 0.0899 | 0.0899 | 0.0000 | 140.2560 | 140.2560 | 0.0294 | 0.0000 | 140.8740 |
| Total | 0.2246 | 1.4523 | 1.0876 | 1.6700e-003 | | 0.0932 | 0.0932 | | 0.0899 | 0.0899 | 0.0000 | 140.2560 | 140.2560 | 0.0294 | 0.0000 | 140.8740 |

3.4 Building Construction - 2017

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 | 0.0243 | 0.2471 | 0.3333 | 6.5000e-004 | 0.0182 | 3.6300e-003 | 0.0218 | 5.1900e-003 | 3.3400e-003 | 8.5200e-003 | 0.0000 | 58.0658 | 58.0658 | 4.3000e-004 | 0.0000 | 58.0747 |
| Worker | 0.0431 | 0.0636 | 0.6621 | 1.5400e-003 | 0.1208 | 1.1200e-003 | 0.1219 | 0.0321 | 1.0300e-003 | 0.0331 | 0.0000 | 113.4187 | 113.4187 | 6.1800e-003 | 0.0000 | 113.5486 |
| Total | 0.0674 | 0.3107 | 0.9954 | 2.1900e-003 | 0.1390 | 4.7500e-003 | 0.1437 | 0.0373 | 4.3700e-003 | 0.0416 | 0.0000 | 171.4845 | 171.4845 | 6.6100e-003 | 0.0000 | 171.6233 |

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 | 0.2246 | 1.4523 | 1.0876 | 1.6700e-003 | | 0.0932 | 0.0932 | | 0.0899 | 0.0899 | 0.0000 | 140.2558 | 140.2558 | 0.0294 | 0.0000 | 140.8738 |
| Total | 0.2246 | 1.4523 | 1.0876 | 1.6700e-003 | | 0.0932 | 0.0932 | | 0.0899 | 0.0899 | 0.0000 | 140.2558 | 140.2558 | 0.0294 | 0.0000 | 140.8738 |

3.4 Building Construction - 2017

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 | 0.0243 | 0.2471 | 0.3333 | 6.5000e-004 | 0.0182 | 3.6300e-003 | 0.0218 | 5.1900e-003 | 3.3400e-003 | 8.5200e-003 | 0.0000 | 58.0658 | 58.0658 | 4.3000e-004 | 0.0000 | 58.0747 |
| Worker | 0.0431 | 0.0636 | 0.6621 | 1.5400e-003 | 0.1208 | 1.1200e-003 | 0.1219 | 0.0321 | 1.0300e-003 | 0.0331 | 0.0000 | 113.4187 | 113.4187 | 6.1800e-003 | 0.0000 | 113.5486 |
| Total | 0.0674 | 0.3107 | 0.9954 | 2.1900e-003 | 0.1390 | 4.7500e-003 | 0.1437 | 0.0373 | 4.3700e-003 | 0.0416 | 0.0000 | 171.4845 | 171.4845 | 6.6100e-003 | 0.0000 | 171.6233 |

3.4 Building Construction - 2018

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 | 0.1963 | 1.3161 | 1.0515 | 1.6700e-003 | | 0.0801 | 0.0801 | | 0.0773 | 0.0773 | 0.0000 | 139.3685 | 139.3685 | 0.0280 | 0.0000 | 139.9561 |
| Total | 0.1963 | 1.3161 | 1.0515 | 1.6700e-003 | | 0.0801 | 0.0801 | | 0.0773 | 0.0773 | 0.0000 | 139.3685 | 139.3685 | 0.0280 | 0.0000 | 139.9561 |

3.4 Building Construction - 2018

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 | 0.0228 | 0.2271 | 0.3199 | 6.5000e-004 | 0.0182 | 3.4200e-003 | 0.0216 | 5.1900e-003 | 3.1400e-003 | 8.3300e-003 | 0.0000 | 57.1063 | 57.1063 | 4.2000e-004 | 0.0000 | 57.1152 |
| Worker | 0.0387 | 0.0577 | 0.5996 | 1.5300e-003 | 0.1208 | 1.0800e-003 | 0.1218 | 0.0321 | 1.0000e-003 | 0.0331 | 0.0000 | 109.2621 | 109.2621 | 5.7400e-003 | 0.0000 | 109.3827 |
| Total | 0.0615 | 0.2848 | 0.9195 | 2.1800e-003 | 0.1390 | 4.5000e-003 | 0.1435 | 0.0373 | 4.1400e-003 | 0.0414 | 0.0000 | 166.3684 | 166.3684 | 6.1600e-003 | 0.0000 | 166.4979 |

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 | 0.1963 | 1.3161 | 1.0515 | 1.6700e-003 | | 0.0801 | 0.0801 | | 0.0773 | 0.0773 | 0.0000 | 139.3683 | 139.3683 | 0.0280 | 0.0000 | 139.9560 |
| Total | 0.1963 | 1.3161 | 1.0515 | 1.6700e-003 | | 0.0801 | 0.0801 | | 0.0773 | 0.0773 | 0.0000 | 139.3683 | 139.3683 | 0.0280 | 0.0000 | 139.9560 |

3.4 Building Construction - 2018

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 | 0.0228 | 0.2271 | 0.3199 | 6.5000e-004 | 0.0182 | 3.4200e-003 | 0.0216 | 5.1900e-003 | 3.1400e-003 | 8.3300e-003 | 0.0000 | 57.1063 | 57.1063 | 4.2000e-004 | 0.0000 | 57.1152 |
| Worker | 0.0387 | 0.0577 | 0.5996 | 1.5300e-003 | 0.1208 | 1.0800e-003 | 0.1218 | 0.0321 | 1.0000e-003 | 0.0331 | 0.0000 | 109.2621 | 109.2621 | 5.7400e-003 | 0.0000 | 109.3827 |
| Total | 0.0615 | 0.2848 | 0.9195 | 2.1800e-003 | 0.1390 | 4.5000e-003 | 0.1435 | 0.0373 | 4.1400e-003 | 0.0414 | 0.0000 | 166.3684 | 166.3684 | 6.1600e-003 | 0.0000 | 166.4979 |

3.5 Paving - 2018

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 | 5.0300e-003 | 0.0515 | 0.0444 | 7.0000e-005 | | 3.0100e-003 | 3.0100e-003 | | 2.7800e-003 | 2.7800e-003 | 0.0000 | 6.0173 | 6.0173 | 1.8400e-003 | 0.0000 | 6.0558 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 5.0300e-003 | 0.0515 | 0.0444 | 7.0000e-005 | | 3.0100e-003 | 3.0100e-003 | | 2.7800e-003 | 2.7800e-003 | 0.0000 | 6.0173 | 6.0173 | 1.8400e-003 | 0.0000 | 6.0558 |

3.5 Paving - 2018

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 | 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 | 0.0000 |
| Worker | 2.3000e-004 | 3.4000e-004 | 3.5400e-003 | 1.0000e-005 | 7.1000e-004 | 1.0000e-005 | 7.2000e-004 | 1.9000e-004 | 1.0000e-005 | 2.0000e-004 | 0.0000 | 0.6445 | 0.6445 | 3.0000e-005 | 0.0000 | 0.6452 | |
| Total | 2.3000e-004 | 3.4000e-004 | 3.5400e-003 | 1.0000e-005 | 7.1000e-004 | 1.0000e-005 | 7.2000e-004 | 1.9000e-004 | 1.0000e-005 | 2.0000e-004 | 0.0000 | 0.6445 | 0.6445 | 3.0000e-005 | 0.0000 | 0.6452 | |

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 | 5.0300e-003 | 0.0515 | 0.0444 | 7.0000e-005 | | 3.0100e-003 | 3.0100e-003 | | 2.7800e-003 | 2.7800e-003 | 0.0000 | 6.0172 | 6.0172 | 1.8400e-003 | 0.0000 | 6.0558 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 5.0300e-003 | 0.0515 | 0.0444 | 7.0000e-005 | | 3.0100e-003 | 3.0100e-003 | | 2.7800e-003 | 2.7800e-003 | 0.0000 | 6.0172 | 6.0172 | 1.8400e-003 | 0.0000 | 6.0558 |

3.5 Paving - 2018

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 | 3.4000e-004 | 3.5400e-003 | 1.0000e-005 | 7.1000e-004 | 1.0000e-005 | 7.2000e-004 | 1.9000e-004 | 1.0000e-005 | 2.0000e-004 | 0.0000 | 0.6445 | 0.6445 | 3.0000e-005 | 0.0000 | 0.6452 |
| Total | 2.3000e-004 | 3.4000e-004 | 3.5400e-003 | 1.0000e-005 | 7.1000e-004 | 1.0000e-005 | 7.2000e-004 | 1.9000e-004 | 1.0000e-005 | 2.0000e-004 | 0.0000 | 0.6445 | 0.6445 | 3.0000e-005 | 0.0000 | 0.6452 |

3.6 Architectural Coating - 2018

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 | 0.7015 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 8.3600e-003 | 0.0562 | 0.0519 | 8.0000e-005 | | 4.2200e-003 | 4.2200e-003 | | 4.2200e-003 | 4.2200e-003 | 0.0000 | 7.1491 | 7.1491 | 6.8000e-004 | 0.0000 | 7.1634 |
| Total | 0.7098 | 0.0562 | 0.0519 | 8.0000e-005 | | 4.2200e-003 | 4.2200e-003 | | 4.2200e-003 | 4.2200e-003 | 0.0000 | 7.1491 | 7.1491 | 6.8000e-004 | 0.0000 | 7.1634 |

3.6 Architectural Coating - 2018

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 | 2.8500e-003 | 4.2500e-003 | 0.0442 | 1.1000e-004 | 8.9000e-003 | 8.0000e-005 | 8.9800e-003 | 2.3600e-003 | 7.0000e-005 | 2.4400e-003 | 0.0000 | 8.0509 | 8.0509 | 4.2000e-004 | 0.0000 | 8.0598 |
| Total | 2.8500e-003 | 4.2500e-003 | 0.0442 | 1.1000e-004 | 8.9000e-003 | 8.0000e-005 | 8.9800e-003 | 2.3600e-003 | 7.0000e-005 | 2.4400e-003 | 0.0000 | 8.0509 | 8.0509 | 4.2000e-004 | 0.0000 | 8.0598 |

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 | 0.7015 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 8.3600e-003 | 0.0562 | 0.0519 | 8.0000e-005 | | 4.2200e-003 | 4.2200e-003 | | 4.2200e-003 | 4.2200e-003 | 0.0000 | 7.1491 | 7.1491 | 6.8000e-004 | 0.0000 | 7.1634 |
| Total | 0.7098 | 0.0562 | 0.0519 | 8.0000e-005 | | 4.2200e-003 | 4.2200e-003 | | 4.2200e-003 | 4.2200e-003 | 0.0000 | 7.1491 | 7.1491 | 6.8000e-004 | 0.0000 | 7.1634 |

3.6 Architectural Coating - 2018

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 | 2.8500e-003 | 4.2500e-003 | 0.0442 | 1.1000e-004 | 8.9000e-003 | 8.0000e-005 | 8.9800e-003 | 2.3600e-003 | 7.0000e-005 | 2.4400e-003 | 0.0000 | 8.0509 | 8.0509 | 4.2000e-004 | 0.0000 | 8.0598 |
| Total | 2.8500e-003 | 4.2500e-003 | 0.0442 | 1.1000e-004 | 8.9000e-003 | 8.0000e-005 | 8.9800e-003 | 2.3600e-003 | 7.0000e-005 | 2.4400e-003 | 0.0000 | 8.0509 | 8.0509 | 4.2000e-004 | 0.0000 | 8.0598 |

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 | 0.9132 | 2.4566 | 9.5958 | 0.0250 | 1.6514 | 0.0361 | 1.6876 | 0.4424 | 0.0333 | 0.4757 | 0.0000 | 1,827.9409 | 1,827.9409 | 0.0705 | 0.0000 | 1,829.4206 |
| Unmitigated | 0.9132 | 2.4566 | 9.5958 | 0.0250 | 1.6514 | 0.0361 | 1.6876 | 0.4424 | 0.0333 | 0.4757 | 0.0000 | 1,827.9409 | 1,827.9409 | 0.0705 | 0.0000 | 1,829.4206 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------------------|-------------------------|-----------------|-----------------|------------------|------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Mid Rise | 724.85 | 780.44 | 661.63 | 2,473,198 | 2,473,198 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | | |
| General Office Building | 67.06 | 14.41 | 5.96 | 163,687 | 163,687 |
| High Turnover (Sit Down Restaurant) | 358.56 | 446.60 | 371.79 | 508,376 | 508,376 |
| Strip Mall | 694.94 | 659.19 | 320.34 | 1,210,653 | 1,210,653 |
| Total | 1,845.41 | 1,900.64 | 1,359.72 | 4,355,914 | 4,355,914 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|--------------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Apartments Mid Rise | 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 |
| General Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| High Turnover (Sit Down) | 16.60 | 8.40 | 6.90 | 8.50 | 72.50 | 19.00 | 37 | 20 | 43 |
| Strip Mall | 16.60 | 8.40 | 6.90 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |

| LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0.530902 | 0.057841 | 0.178699 | 0.124790 | 0.039063 | 0.006298 | 0.016951 | 0.033908 | 0.002496 | 0.003149 | 0.003689 | 0.000536 | 0.001678 |

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 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 | 484.9120 | 484.9120 | 0.0223 | 4.6100e-003 | 486.8097 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 509.8085 | 509.8085 | 0.0234 | 4.8500e-003 | 511.8037 |
| NaturalGas Mitigated | 8.0500e-003 | 0.0710 | 0.0455 | 4.4000e-004 | | 5.5600e-003 | 5.5600e-003 | | 5.5600e-003 | 5.5600e-003 | 0.0000 | 79.7011 | 79.7011 | 1.5300e-003 | 1.4600e-003 | 80.1862 |
| NaturalGas Unmitigated | 8.0500e-003 | 0.0710 | 0.0455 | 4.4000e-004 | | 5.5600e-003 | 5.5600e-003 | | 5.5600e-003 | 5.5600e-003 | 0.0000 | 79.7011 | 79.7011 | 1.5300e-003 | 1.4600e-003 | 80.1862 |

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 Office Building | 66443.5 | 3.6000e-004 | 3.2600e-003 | 2.7400e-003 | 2.0000e-005 | | 2.5000e-004 | 2.5000e-004 | | 2.5000e-004 | 2.5000e-004 | 0.0000 | 3.5457 | 3.5457 | 7.0000e-005 | 7.0000e-005 | 3.5673 |
| High Turnover (Sit Down Restaurant) | 657088 | 3.5400e-003 | 0.0322 | 0.0271 | 1.9000e-004 | | 2.4500e-003 | 2.4500e-003 | | 2.4500e-003 | 2.4500e-003 | 0.0000 | 35.0647 | 35.0647 | 6.7000e-004 | 6.4000e-004 | 35.2781 |
| Strip Mall | 26652.6 | 1.4000e-004 | 1.3100e-003 | 1.1000e-003 | 1.0000e-005 | | 1.0000e-004 | 1.0000e-004 | | 1.0000e-004 | 1.0000e-004 | 0.0000 | 1.4223 | 1.4223 | 3.0000e-005 | 3.0000e-005 | 1.4309 |
| Apartments Mid Rise | 743358 | 4.0100e-003 | 0.0343 | 0.0146 | 2.2000e-004 | | 2.7700e-003 | 2.7700e-003 | | 2.7700e-003 | 2.7700e-003 | 0.0000 | 39.6684 | 39.6684 | 7.6000e-004 | 7.3000e-004 | 39.9098 |
| 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 | | 8.0500e-003 | 0.0710 | 0.0455 | 4.4000e-004 | | 5.5700e-003 | 5.5700e-003 | | 5.5700e-003 | 5.5700e-003 | 0.0000 | 79.7011 | 79.7011 | 1.5300e-003 | 1.4700e-003 | 80.1862 |

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 Office Building | 66443.5 | 3.6000e-004 | 3.2600e-003 | 2.7400e-003 | 2.0000e-005 | | 2.5000e-004 | 2.5000e-004 | | 2.5000e-004 | 2.5000e-004 | 0.0000 | 3.5457 | 3.5457 | 7.0000e-005 | 7.0000e-005 | 3.5673 |
| High Turnover (Sit Down Restaurant) | 657088 | 3.5400e-003 | 0.0322 | 0.0271 | 1.9000e-004 | | 2.4500e-003 | 2.4500e-003 | | 2.4500e-003 | 2.4500e-003 | 0.0000 | 35.0647 | 35.0647 | 6.7000e-004 | 6.4000e-004 | 35.2781 |
| Strip Mall | 26652.6 | 1.4000e-004 | 1.3100e-003 | 1.1000e-003 | 1.0000e-005 | | 1.0000e-004 | 1.0000e-004 | | 1.0000e-004 | 1.0000e-004 | 0.0000 | 1.4223 | 1.4223 | 3.0000e-005 | 3.0000e-005 | 1.4309 |
| Apartments Mid Rise | 743358 | 4.0100e-003 | 0.0343 | 0.0146 | 2.2000e-004 | | 2.7700e-003 | 2.7700e-003 | | 2.7700e-003 | 2.7700e-003 | 0.0000 | 39.6684 | 39.6684 | 7.6000e-004 | 7.3000e-004 | 39.9098 |
| 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 | | 8.0500e-003 | 0.0710 | 0.0455 | 4.4000e-004 | | 5.5700e-003 | 5.5700e-003 | | 5.5700e-003 | 5.5700e-003 | 0.0000 | 79.7011 | 79.7011 | 1.5300e-003 | 1.4700e-003 | 80.1862 |

5.3 Energy by Land Use - Electricity

Unmitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments Mid Rise | 379458 | 108.5884 | 4.9900e-003 | 1.0300e-003 | 109.0134 |
| Enclosed Parking with Elevator | 943600 | 270.0271 | 0.0124 | 2.5700e-003 | 271.0838 |
| General Office Building | 88327.9 | 25.2765 | 1.1600e-003 | 2.4000e-004 | 25.3754 |
| High Turnover (Sit Down Restaurant) | 132286 | 37.8559 | 1.7400e-003 | 3.6000e-004 | 38.0041 |
| Strip Mall | 237835 | 68.0606 | 3.1300e-003 | 6.5000e-004 | 68.3269 |
| Total | | 509.8085 | 0.0234 | 4.8500e-003 | 511.8037 |

5.3 Energy by Land Use - Electricity

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments Mid Rise | 362058 | 103.6091 | 4.7600e-003 | 9.9000e-004 | 104.0146 |
| Enclosed Parking with Elevator | 926200 | 265.0478 | 0.0122 | 2.5200e-003 | 266.0850 |
| General Office Building | 70927.9 | 20.2972 | 9.3000e-004 | 1.9000e-004 | 20.3766 |
| High Turnover (Sit Down Restaurant) | 114886 | 32.8766 | 1.5100e-003 | 3.1000e-004 | 33.0053 |
| Strip Mall | 220435 | 63.0813 | 2.9000e-003 | 6.0000e-004 | 63.3281 |
| Total | | 484.9120 | 0.0223 | 4.6100e-003 | 486.8097 |

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 | 1.2569 | 0.0131 | 1.1345 | 6.0000e-005 | | 6.2100e-003 | 6.2100e-003 | | 6.2100e-003 | 6.2100e-003 | 0.0000 | 1.8455 | 1.8455 | 1.8300e-003 | 0.0000 | 1.8838 |
| Unmitigated | 1.2569 | 0.0131 | 1.1345 | 6.0000e-005 | | 6.2100e-003 | 6.2100e-003 | | 6.2100e-003 | 6.2100e-003 | 0.0000 | 1.8455 | 1.8455 | 1.8300e-003 | 0.0000 | 1.8838 |

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 | 0.2333 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.9886 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 0.0350 | 0.0131 | 1.1345 | 6.0000e-005 | | 6.2100e-003 | 6.2100e-003 | | 6.2100e-003 | 6.2100e-003 | 0.0000 | 1.8455 | 1.8455 | 1.8300e-003 | 0.0000 | 1.8838 |
| Total | 1.2569 | 0.0131 | 1.1345 | 6.0000e-005 | | 6.2100e-003 | 6.2100e-003 | | 6.2100e-003 | 6.2100e-003 | 0.0000 | 1.8455 | 1.8455 | 1.8300e-003 | 0.0000 | 1.8838 |

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 | 0.2333 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.9886 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 0.0350 | 0.0131 | 1.1345 | 6.0000e-005 | | 6.2100e-003 | 6.2100e-003 | | 6.2100e-003 | 6.2100e-003 | 0.0000 | 1.8455 | 1.8455 | 1.8300e-003 | 0.0000 | 1.8838 |
| Total | 1.2569 | 0.0131 | 1.1345 | 6.0000e-005 | | 6.2100e-003 | 6.2100e-003 | | 6.2100e-003 | 6.2100e-003 | 0.0000 | 1.8455 | 1.8455 | 1.8300e-003 | 0.0000 | 1.8838 |

7.0 Water Detail

7.1 Mitigation Measures Water

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|-------------|---------|
| Category | MT/yr | | | |
| Mitigated | 60.0195 | 0.3349 | 8.3800e-003 | 69.6489 |
| Unmitigated | 60.0195 | 0.3350 | 8.3900e-003 | 69.6541 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------------|----------------|---------------|--------------------|----------------|
| Land Use | Mgal | MT/yr | | | |
| Apartments Mid Rise | 7.10179 / 4.47721 | 42.9501 | 0.2333 | 5.8500e-003 | 49.6629 |
| Enclosed Parking with Elevator | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 1.08062 / 0.662316 | 6.4751 | 0.0355 | 8.9000e-004 | 7.4963 |
| High Turnover (Sit Down Restaurant) | 0.855965 / 0.0546361 | 3.6347 | 0.0281 | 6.9000e-004 | 4.4378 |
| Strip Mall | 1.16146 / 0.711861 | 6.9595 | 0.0382 | 9.6000e-004 | 8.0571 |
| Total | | 60.0195 | 0.3350 | 8.3900e-003 | 69.6541 |

7.2 Water by Land Use

Mitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------------|----------------|---------------|--------------------|----------------|
| Land Use | Mgal | MT/yr | | | |
| Apartments Mid Rise | 7.10179 / 4.47721 | 42.9501 | 0.2332 | 5.8400e-003 | 49.6593 |
| Enclosed Parking with Elevator | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 1.08062 / 0.662316 | 6.4751 | 0.0355 | 8.9000e-004 | 7.4958 |
| High Turnover (Sit Down Restaurant) | 0.855965 / 0.0546361 | 3.6347 | 0.0280 | 6.9000e-004 | 4.4374 |
| Strip Mall | 1.16146 / 0.711861 | 6.9595 | 0.0381 | 9.5000e-004 | 8.0565 |
| Total | | 60.0195 | 0.3349 | 8.3700e-003 | 69.6489 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|---------|
| | MT/yr | | | |
| Mitigated | 21.4785 | 1.2693 | 0.0000 | 48.1346 |
| Unmitigated | 21.4785 | 1.2693 | 0.0000 | 48.1346 |

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use | tons | MT/yr | | | |
| Apartments Mid Rise | 50.14 | 10.1780 | 0.6015 | 0.0000 | 22.8095 |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 5.65 | 1.1469 | 0.0678 | 0.0000 | 2.5703 |
| High Turnover (Sit Down Restaurant) | 33.56 | 6.8124 | 0.4026 | 0.0000 | 15.2670 |
| Strip Mall | 16.46 | 3.3412 | 0.1975 | 0.0000 | 7.4879 |
| Total | | 21.4785 | 1.2693 | 0.0000 | 48.1346 |

8.2 Waste by Land Use

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use | tons | MT/yr | | | |
| Apartments Mid Rise | 50.14 | 10.1780 | 0.6015 | 0.0000 | 22.8095 |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 5.65 | 1.1469 | 0.0678 | 0.0000 | 2.5703 |
| High Turnover (Sit Down Restaurant) | 33.56 | 6.8124 | 0.4026 | 0.0000 | 15.2670 |
| Strip Mall | 16.46 | 3.3412 | 0.1975 | 0.0000 | 7.4879 |
| Total | | 21.4785 | 1.2693 | 0.0000 | 48.1346 |

9.0 Operational Offroad

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

10.0 Vegetation

Greenhouse Gas Emission Worksheet
N2O Mobile Emissions

8555 Santa Monica Blvd - Proposed Project

From CalEEMod Vehicle Fleet Mix Output:

Annual VMT: 4,355,914

| Vehicle Type | Percent Type | CH4 Emission Factor (g/mile)* | CH4 Emission (g/mile)** | N2O Emission Factor (g/mile)* | N2O Emission (g/mile)** |
|-------------------------------------|---------------|-------------------------------|-------------------------|-------------------------------|-------------------------|
| Light Auto | 53.1% | 0.04 | 0.0212361 | 0.04 | 0.021236 |
| Light Truck < 3750 lbs | 5.8% | 0.05 | 0.0028921 | 0.06 | 0.00347 |
| Light Truck 3751-5750 lbs | 17.9% | 0.05 | 0.008935 | 0.06 | 0.010722 |
| Med Truck 5751-8500 lbs | 12.5% | 0.12 | 0.0149748 | 0.2 | 0.024958 |
| Lite-Heavy Truck 8501-10,000 lbs | 3.9% | 0.12 | 0.0046876 | 0.2 | 0.007813 |
| Lite-Heavy Truck 10,001-14,000 lbs | 0.6% | 0.09 | 0.0005668 | 0.125 | 0.000787 |
| Med-Heavy Truck 14,001-33,000 lbs | 1.7% | 0.06 | 0.0010171 | 0.05 | 0.000848 |
| Heavy-Heavy Truck 33,001-60,000 lbs | 3.4% | 0.06 | 0.0020345 | 0.05 | 0.001695 |
| Other Bus | 0.2% | 0.06 | 0.0001498 | 0.05 | 0.000125 |
| Urban Bus | 0.3% | 0.06 | 0.0001889 | 0.05 | 0.000157 |
| Motorcycle | 0.4% | 0.09 | 0.000332 | 0.01 | 3.69E-05 |
| School Bus | 0.1% | 0.06 | 3.216E-05 | 0.05 | 2.68E-05 |
| Motor Home | 0.2% | 0.09 | 0.000151 | 0.125 | 0.00021 |
| Total | 100.0% | | 0.0571977 | | 0.072085 |

Total Emissions (metric tons) =

Emission Factor by Vehicle Mix (g/mi) x Annual VMT(mi) x 0.000001 metric tons/g

Conversion to Carbon Dioxide Equivalency (CO2e) Units based on Global Warming Potential (GWP)

CH4 21 GWP
 N2O 310 GWP
 1 ton (short, US) = 0.90718474 metric ton

Annual Mobile Emissions:

| | Total Emissions | Total CO2e units |
|----------------|--|------------------------|
| N2O Emissions: | 0.3140 metric tons N2O | 97.34 metric tons CO2e |
| | Project Total: 97.34 metric tons CO2e | |

References

- * from Table C.4: Methane and Nitrous Oxide Emission Factors for Mobile Sources by Vehicle and Fuel Type (g/mile). in California Climate Action Registry General Reporting Protocol, Reporting Entity-Wide Greenhouse Gas Emissions, Version 3.1, January 2009. Assume Model year 2000-present, gasoline fueled.
- ** Source: California Climate Action Registry General Reporting Protocol, Reporting Entity-Wide Greenhouse Gas Emissions, Version 3.1, January 2009.
- *** From URBEMIS 2007 results for mobile sources

8555 Santa Monica Blvd - Existing Uses
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|-------|---------------|-------------|--------------------|------------|
| Single Family Housing | 3.00 | Dwelling Unit | 0.97 | 5,400.00 | 9 |
| General Office Building | 4.21 | 1000sqft | 0.10 | 4,211.00 | 0 |
| Health Club | 4.06 | 1000sqft | 0.09 | 4,058.00 | 0 |
| High Turnover (Sit Down Restaurant) | 2.48 | 1000sqft | 0.06 | 2,475.00 | 0 |
| Strip Mall | 16.64 | 1000sqft | 0.38 | 16,644.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|----------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33 |
| Climate Zone | 11 | | | Operational Year | 2016 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MWhr) | 630.89 | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity (lb/MWhr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - hair salon (6,218 sf) added to retail (10,426 sf)

Construction Phase - No construction - only analyzing existing operational emissions

Woodstoves - No woodstoves - residences may have fireplaces

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 | 0.1622 | 4.7000e-004 | 0.0414 | 0.0000 | | 1.5400e-003 | 1.5400e-003 | | 1.5400e-003 | 1.5400e-003 | 0.1179 | 0.6636 | 0.7815 | 7.0000e-005 | 2.0000e-005 | 0.7895 |
| Energy | 4.4300e-003 | 0.0400 | 0.0318 | 2.4000e-004 | | 3.0600e-003 | 3.0600e-003 | | 3.0600e-003 | 3.0600e-003 | 0.0000 | 186.9132 | 186.9132 | 7.4200e-003 | 2.1600e-003 | 187.7400 |
| Mobile | 0.7041 | 1.5988 | 6.7030 | 0.0128 | 0.8356 | 0.0206 | 0.8562 | 0.2238 | 0.0190 | 0.2427 | 0.0000 | 1,022.068 2 | 1,022.068 2 | 0.0457 | 0.0000 | 1,023.027 1 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 15.7785 | 0.0000 | 15.7785 | 0.9325 | 0.0000 | 35.3606 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 1.0054 | 16.6812 | 17.6866 | 0.1040 | 2.6000e-003 | 20.6764 |
| Total | 0.8706 | 1.6393 | 6.7762 | 0.0130 | 0.8356 | 0.0252 | 0.8608 | 0.2238 | 0.0236 | 0.2473 | 16.9018 | 1,226.326 1 | 1,243.227 9 | 1.0897 | 4.7800e-003 | 1,267.593 6 |

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 | 0.1622 | 4.7000e-004 | 0.0414 | 0.0000 | | 1.5400e-003 | 1.5400e-003 | | 1.5400e-003 | 1.5400e-003 | 0.1179 | 0.6636 | 0.7815 | 7.0000e-005 | 2.0000e-005 | 0.7895 |
| Energy | 4.4300e-003 | 0.0400 | 0.0318 | 2.4000e-004 | | 3.0600e-003 | 3.0600e-003 | | 3.0600e-003 | 3.0600e-003 | 0.0000 | 186.9132 | 186.9132 | 7.4200e-003 | 2.1600e-003 | 187.7400 |
| Mobile | 0.7041 | 1.5988 | 6.7030 | 0.0128 | 0.8356 | 0.0206 | 0.8562 | 0.2238 | 0.0190 | 0.2427 | 0.0000 | 1,022.0682 | 1,022.0682 | 0.0457 | 0.0000 | 1,023.0271 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 15.7785 | 0.0000 | 15.7785 | 0.9325 | 0.0000 | 35.3606 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 1.0054 | 16.6812 | 17.6866 | 0.1040 | 2.5900e-003 | 20.6748 |
| Total | 0.8706 | 1.6393 | 6.7762 | 0.0130 | 0.8356 | 0.0252 | 0.8608 | 0.2238 | 0.0236 | 0.2473 | 16.9018 | 1,226.3261 | 1,243.2279 | 1.0897 | 4.7700e-003 | 1,267.5920 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 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 | 1/1/2015 | 12/31/2014 | 5 | 0 | |

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 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Demolition | Rubber Tired Dozers | 1 | 8.00 | 255 | 0.40 |
| Demolition | Tractors/Loaders/Backhoes | 3 | 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 | 5 | 13.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

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 | 0.7041 | 1.5988 | 6.7030 | 0.0128 | 0.8356 | 0.0206 | 0.8562 | 0.2238 | 0.0190 | 0.2427 | 0.0000 | 1,022.068 2 | 1,022.068 2 | 0.0457 | 0.0000 | 1,023.027 1 |
| Unmitigated | 0.7041 | 1.5988 | 6.7030 | 0.0128 | 0.8356 | 0.0206 | 0.8562 | 0.2238 | 0.0190 | 0.2427 | 0.0000 | 1,022.068 2 | 1,022.068 2 | 0.0457 | 0.0000 | 1,023.027 1 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------------------|-------------------------|-----------------|---------------|------------------|------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| General Office Building | 46.36 | 9.98 | 4.13 | 113,176 | 113,176 |
| Health Club | 133.63 | 84.69 | 108.47 | 263,164 | 263,164 |
| High Turnover (Sit Down Restaurant) | 314.70 | 391.97 | 326.30 | 446,181 | 446,181 |
| Single Family Housing | 28.71 | 30.24 | 26.31 | 97,682 | 97,682 |
| Strip Mall | 737.66 | 699.71 | 340.04 | 1,285,084 | 1,285,084 |
| Total | 1,261.06 | 1,216.59 | 805.25 | 2,205,286 | 2,205,286 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|--------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| General Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Health Club | 16.60 | 8.40 | 6.90 | 16.90 | 64.10 | 19.00 | 52 | 39 | 9 |
| High Turnover (Sit Down) | 16.60 | 8.40 | 6.90 | 8.50 | 72.50 | 19.00 | 37 | 20 | 43 |
| Single Family Housing | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Strip Mall | 16.60 | 8.40 | 6.90 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |

| LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0.533598 | 0.058434 | 0.178244 | 0.125508 | 0.038944 | 0.006283 | 0.016425 | 0.031066 | 0.002453 | 0.003157 | 0.003691 | 0.000543 | 0.001655 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|-------------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| | tons/yr | | | | | | | | | | MT/yr | | | | | |
| NaturalGas Mitigated | 4.4300e-003 | 0.0400 | 0.0318 | 2.4000e-004 | | 3.0600e-003 | 3.0600e-003 | | 3.0600e-003 | 3.0600e-003 | 0.0000 | 43.8707 | 43.8707 | 8.4000e-004 | 8.0000e-004 | 44.1377 |
| NaturalGas Unmitigated | 4.4300e-003 | 0.0400 | 0.0318 | 2.4000e-004 | | 3.0600e-003 | 3.0600e-003 | | 3.0600e-003 | 3.0600e-003 | 0.0000 | 43.8707 | 43.8707 | 8.4000e-004 | 8.0000e-004 | 44.1377 |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 143.0424 | 143.0424 | 6.5800e-003 | 1.3600e-003 | 143.6022 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 143.0424 | 143.0424 | 6.5800e-003 | 1.3600e-003 | 143.6022 |

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 Office Building | 46026.2 | 2.5000e-004 | 2.2600e-003 | 1.9000e-003 | 1.0000e-005 | | 1.7000e-004 | 1.7000e-004 | | 1.7000e-004 | 1.7000e-004 | 0.0000 | 2.4561 | 2.4561 | 5.0000e-005 | 5.0000e-005 | 2.4711 |
| Health Club | 76331 | 4.1000e-004 | 3.7400e-003 | 3.1400e-003 | 2.0000e-005 | | 2.8000e-004 | 2.8000e-004 | | 2.8000e-004 | 2.8000e-004 | 0.0000 | 4.0733 | 4.0733 | 8.0000e-005 | 7.0000e-005 | 4.0981 |
| High Turnover (Sit Down Restaurant) | 576700 | 3.1100e-003 | 0.0283 | 0.0238 | 1.7000e-004 | | 2.1500e-003 | 2.1500e-003 | | 2.1500e-003 | 2.1500e-003 | 0.0000 | 30.7749 | 30.7749 | 5.9000e-004 | 5.6000e-004 | 30.9622 |
| Single Family Housing | 94754.8 | 5.1000e-004 | 4.3700e-003 | 1.8600e-003 | 3.0000e-005 | | 3.5000e-004 | 3.5000e-004 | | 3.5000e-004 | 3.5000e-004 | 0.0000 | 5.0565 | 5.0565 | 1.0000e-004 | 9.0000e-005 | 5.0873 |
| Strip Mall | 28294.8 | 1.5000e-004 | 1.3900e-003 | 1.1700e-003 | 1.0000e-005 | | 1.1000e-004 | 1.1000e-004 | | 1.1000e-004 | 1.1000e-004 | 0.0000 | 1.5099 | 1.5099 | 3.0000e-005 | 3.0000e-005 | 1.5191 |
| Total | | 4.4300e-003 | 0.0400 | 0.0318 | 2.4000e-004 | | 3.0600e-003 | 3.0600e-003 | | 3.0600e-003 | 3.0600e-003 | 0.0000 | 43.8707 | 43.8707 | 8.5000e-004 | 8.0000e-004 | 44.1377 |

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 Office Building | 46026.2 | 2.5000e-004 | 2.2600e-003 | 1.9000e-003 | 1.0000e-005 | | 1.7000e-004 | 1.7000e-004 | | 1.7000e-004 | 1.7000e-004 | 0.0000 | 2.4561 | 2.4561 | 5.0000e-005 | 5.0000e-005 | 2.4711 |
| Health Club | 76331 | 4.1000e-004 | 3.7400e-003 | 3.1400e-003 | 2.0000e-005 | | 2.8000e-004 | 2.8000e-004 | | 2.8000e-004 | 2.8000e-004 | 0.0000 | 4.0733 | 4.0733 | 8.0000e-005 | 7.0000e-005 | 4.0981 |
| High Turnover (Sit Down Restaurant) | 576700 | 3.1100e-003 | 0.0283 | 0.0238 | 1.7000e-004 | | 2.1500e-003 | 2.1500e-003 | | 2.1500e-003 | 2.1500e-003 | 0.0000 | 30.7749 | 30.7749 | 5.9000e-004 | 5.6000e-004 | 30.9622 |
| Single Family Housing | 94754.8 | 5.1000e-004 | 4.3700e-003 | 1.8600e-003 | 3.0000e-005 | | 3.5000e-004 | 3.5000e-004 | | 3.5000e-004 | 3.5000e-004 | 0.0000 | 5.0565 | 5.0565 | 1.0000e-004 | 9.0000e-005 | 5.0873 |
| Strip Mall | 28294.8 | 1.5000e-004 | 1.3900e-003 | 1.1700e-003 | 1.0000e-005 | | 1.1000e-004 | 1.1000e-004 | | 1.1000e-004 | 1.1000e-004 | 0.0000 | 1.5099 | 1.5099 | 3.0000e-005 | 3.0000e-005 | 1.5191 |
| Total | | 4.4300e-003 | 0.0400 | 0.0318 | 2.4000e-004 | | 3.0600e-003 | 3.0600e-003 | | 3.0600e-003 | 3.0600e-003 | 0.0000 | 43.8707 | 43.8707 | 8.5000e-004 | 8.0000e-004 | 44.1377 |

5.3 Energy by Land Use - Electricity

Unmitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use | kWh/yr | MT/yr | | | |
| General Office Building | 61185.8 | 17.5094 | 8.0000e-004 | 1.7000e-004 | 17.5779 |
| Health Club | 48898.9 | 13.9933 | 6.4000e-004 | 1.3000e-004 | 14.0480 |
| High Turnover (Sit Down Restaurant) | 116102 | 33.2246 | 1.5300e-003 | 3.2000e-004 | 33.3547 |
| Single Family Housing | 21180.2 | 6.0611 | 2.8000e-004 | 6.0000e-005 | 6.0848 |
| Strip Mall | 252489 | 72.2541 | 3.3200e-003 | 6.9000e-004 | 72.5369 |
| Total | | 143.0424 | 6.5700e-003 | 1.3700e-003 | 143.6022 |

5.3 Energy by Land Use - Electricity

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use | kWh/yr | MT/yr | | | |
| General Office Building | 61185.8 | 17.5094 | 8.0000e-004 | 1.7000e-004 | 17.5779 |
| Health Club | 48898.9 | 13.9933 | 6.4000e-004 | 1.3000e-004 | 14.0480 |
| High Turnover (Sit Down Restaurant) | 116102 | 33.2246 | 1.5300e-003 | 3.2000e-004 | 33.3547 |
| Single Family Housing | 21180.2 | 6.0611 | 2.8000e-004 | 6.0000e-005 | 6.0848 |
| Strip Mall | 252489 | 72.2541 | 3.3200e-003 | 6.9000e-004 | 72.5369 |
| Total | | 143.0424 | 6.5700e-003 | 1.3700e-003 | 143.6022 |

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 | 0.1622 | 4.7000e-004 | 0.0414 | 0.0000 | | 1.5400e-003 | 1.5400e-003 | | 1.5400e-003 | 1.5400e-003 | 0.1179 | 0.6636 | 0.7815 | 7.0000e-005 | 2.0000e-005 | 0.7895 |
| Unmitigated | 0.1622 | 4.7000e-004 | 0.0414 | 0.0000 | | 1.5400e-003 | 1.5400e-003 | | 1.5400e-003 | 1.5400e-003 | 0.1179 | 0.6636 | 0.7815 | 7.0000e-005 | 2.0000e-005 | 0.7895 |

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 | 0.0339 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.1185 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 8.8100e-003 | 1.0000e-004 | 9.6600e-003 | 0.0000 | | 1.3700e-003 | 1.3700e-003 | | 1.3600e-003 | 1.3600e-003 | 0.1179 | 0.6124 | 0.7302 | 1.0000e-005 | 2.0000e-005 | 0.7372 |
| Landscaping | 1.0200e-003 | 3.7000e-004 | 0.0317 | 0.0000 | | 1.7000e-004 | 1.7000e-004 | | 1.7000e-004 | 1.7000e-004 | 0.0000 | 0.0512 | 0.0512 | 5.0000e-005 | 0.0000 | 0.0523 |
| Total | 0.1622 | 4.7000e-004 | 0.0414 | 0.0000 | | 1.5400e-003 | 1.5400e-003 | | 1.5300e-003 | 1.5300e-003 | 0.1179 | 0.6636 | 0.7815 | 6.0000e-005 | 2.0000e-005 | 0.7895 |

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 | 0.0339 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.1185 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 8.8100e-003 | 1.0000e-004 | 9.6600e-003 | 0.0000 | | 1.3700e-003 | 1.3700e-003 | | 1.3600e-003 | 1.3600e-003 | 0.1179 | 0.6124 | 0.7302 | 1.0000e-005 | 2.0000e-005 | 0.7372 |
| Landscaping | 1.0200e-003 | 3.7000e-004 | 0.0317 | 0.0000 | | 1.7000e-004 | 1.7000e-004 | | 1.7000e-004 | 1.7000e-004 | 0.0000 | 0.0512 | 0.0512 | 5.0000e-005 | 0.0000 | 0.0523 |
| Total | 0.1622 | 4.7000e-004 | 0.0414 | 0.0000 | | 1.5400e-003 | 1.5400e-003 | | 1.5300e-003 | 1.5300e-003 | 0.1179 | 0.6636 | 0.7815 | 6.0000e-005 | 2.0000e-005 | 0.7895 |

7.0 Water Detail

7.1 Mitigation Measures Water

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|-------------|---------|
| Category | MT/yr | | | |
| Unmitigated | 17.6866 | 0.1040 | 2.6000e-003 | 20.6764 |
| Mitigated | 17.6866 | 0.1040 | 2.5900e-003 | 20.6748 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------------|----------------|---------------|--------------------|----------------|
| Land Use | Mgal | MT/yr | | | |
| General Office Building | 0.748259 / 0.45861 | 4.4836 | 0.0246 | 6.2000e-004 | 5.1907 |
| Health Club | 0.240121 / 0.147171 | 1.4388 | 7.8900e-003 | 2.0000e-004 | 1.6657 |
| High Turnover (Sit Down Restaurant) | 0.752764 / 0.0480487 | 3.1965 | 0.0247 | 6.1000e-004 | 3.9027 |
| Single Family Housing | 0.195462 / 0.123226 | 1.1821 | 6.4200e-003 | 1.6000e-004 | 1.3669 |
| Strip Mall | 1.23257 / 0.755444 | 7.3856 | 0.0405 | 1.0100e-003 | 8.5504 |
| Total | | 17.6866 | 0.1040 | 2.6000e-003 | 20.6764 |

7.2 Water by Land Use

Mitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------------|----------------|---------------|--------------------|----------------|
| Land Use | Mgal | MT/yr | | | |
| General Office Building | 0.748259 / 0.45861 | 4.4836 | 0.0246 | 6.2000e-004 | 5.1903 |
| Health Club | 0.240121 / 0.147171 | 1.4388 | 7.8900e-003 | 2.0000e-004 | 1.6656 |
| High Turnover (Sit Down Restaurant) | 0.752764 / 0.0480487 | 3.1965 | 0.0247 | 6.1000e-004 | 3.9024 |
| Single Family Housing | 0.195462 / 0.123226 | 1.1821 | 6.4200e-003 | 1.6000e-004 | 1.3668 |
| Strip Mall | 1.23257 / 0.755444 | 7.3856 | 0.0405 | 1.0100e-003 | 8.5498 |
| Total | | 17.6866 | 0.1040 | 2.6000e-003 | 20.6748 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|---------|
| | MT/yr | | | |
| Mitigated | 15.7785 | 0.9325 | 0.0000 | 35.3606 |
| Unmitigated | 15.7785 | 0.9325 | 0.0000 | 35.3606 |

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use | tons | MT/yr | | | |
| General Office Building | 3.92 | 0.7957 | 0.0470 | 0.0000 | 1.7833 |
| Health Club | 23.14 | 4.6972 | 0.2776 | 0.0000 | 10.5268 |
| High Turnover (Sit Down Restaurant) | 29.51 | 5.9903 | 0.3540 | 0.0000 | 13.4246 |
| Single Family Housing | 3.69 | 0.7490 | 0.0443 | 0.0000 | 1.6786 |
| Strip Mall | 17.47 | 3.5463 | 0.2096 | 0.0000 | 7.9474 |
| Total | | 15.7785 | 0.9325 | 0.0000 | 35.3606 |

8.2 Waste by Land Use

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use | tons | MT/yr | | | |
| General Office Building | 3.92 | 0.7957 | 0.0470 | 0.0000 | 1.7833 |
| Health Club | 23.14 | 4.6972 | 0.2776 | 0.0000 | 10.5268 |
| High Turnover (Sit Down Restaurant) | 29.51 | 5.9903 | 0.3540 | 0.0000 | 13.4246 |
| Single Family Housing | 3.69 | 0.7490 | 0.0443 | 0.0000 | 1.6786 |
| Strip Mall | 17.47 | 3.5463 | 0.2096 | 0.0000 | 7.9474 |
| Total | | 15.7785 | 0.9325 | 0.0000 | 35.3606 |

9.0 Operational Offroad

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

10.0 Vegetation

Greenhouse Gas Emission Worksheet
N2O Mobile Emissions

8555 Santa Monica Blvd - Existing Uses

From CalEEMod Vehicle Fleet Mix Output:

Annual VMT: 2,205,286

| Vehicle Type | Percent Type | CH4 Emission Factor (g/mile)* | CH4 Emission (g/mile)** | N2O Emission Factor (g/mile)* | N2O Emission (g/mile)** |
|-------------------------------------|---------------|-------------------------------|-------------------------|-------------------------------|-------------------------|
| Light Auto | 53.4% | 0.04 | 0.0213439 | 0.04 | 0.021344 |
| Light Truck < 3750 lbs | 5.8% | 0.05 | 0.0029217 | 0.06 | 0.003506 |
| Light Truck 3751-5750 lbs | 17.8% | 0.05 | 0.0089122 | 0.06 | 0.010695 |
| Med Truck 5751-8500 lbs | 12.6% | 0.12 | 0.015061 | 0.2 | 0.025102 |
| Lite-Heavy Truck 8501-10,000 lbs | 3.9% | 0.12 | 0.0046733 | 0.2 | 0.007789 |
| Lite-Heavy Truck 10,001-14,000 lbs | 0.6% | 0.09 | 0.0005655 | 0.125 | 0.000785 |
| Med-Heavy Truck 14,001-33,000 lbs | 1.6% | 0.06 | 0.0009855 | 0.05 | 0.000821 |
| Heavy-Heavy Truck 33,001-60,000 lbs | 3.1% | 0.06 | 0.001864 | 0.05 | 0.001553 |
| Other Bus | 0.2% | 0.06 | 0.0001472 | 0.05 | 0.000123 |
| Urban Bus | 0.3% | 0.06 | 0.0001894 | 0.05 | 0.000158 |
| Motorcycle | 0.4% | 0.09 | 0.0003322 | 0.01 | 3.69E-05 |
| School Bus | 0.1% | 0.06 | 3.258E-05 | 0.05 | 2.72E-05 |
| Motor Home | 0.2% | 0.09 | 0.000149 | 0.125 | 0.000207 |
| Total | 100.0% | | 0.0571773 | | 0.072146 |

Total Emissions (metric tons) =

Emission Factor by Vehicle Mix (g/mi) x Annual VMT(mi) x 0.000001 metric tons/g

Conversion to Carbon Dioxide Equivalency (CO2e) Units based on Global Warming Potential (GWP)

CH4 21 GWP
 N2O 310 GWP
 1 ton (short, US) = 0.90718474 metric ton

Annual Mobile Emissions:

| | Total Emissions | Total CO2e units |
|----------------|--|------------------------|
| N2O Emissions: | 0.1591 metric tons N2O | 49.32 metric tons CO2e |
| | Project Total: 49.32 metric tons CO2e | |

References

- * from Table C.4: Methane and Nitrous Oxide Emission Factors for Mobile Sources by Vehicle and Fuel Type (g/mile). in California Climate Action Registry General Reporting Protocol, Reporting Entity-Wide Greenhouse Gas Emissions, Version 3.1, January 2009. Assume Model year 2000-present, gasoline fueled.
- ** Source: California Climate Action Registry General Reporting Protocol, Reporting Entity-Wide Greenhouse Gas Emissions, Version 3.1, January 2009.
- *** From URBEMIS 2007 results for mobile sources

8555 Santa Monica Blvd - Alternative 2
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|--------|---------------|-------------|--------------------|------------|
| General Office Building | 46.00 | 1000sqft | 1.26 | 46,002.00 | 0 |
| Enclosed Parking with Elevator | 261.00 | Space | 0.00 | 104,400.00 | 0 |
| High Turnover (Sit Down Restaurant) | 1.05 | 1000sqft | 0.00 | 1,054.00 | 0 |
| Apartments Mid Rise | 14.00 | Dwelling Unit | 0.00 | 14,000.00 | 40 |
| Strip Mall | 17.44 | 1000sqft | 0.00 | 17,444.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33 |
| Climate Zone | 11 | | | Operational Year | 2019 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MW hr) | 630.89 | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 1.26 ac site

Construction Phase - 2 mo demo, 3 mo excavation, 14 mo construction, 3 mo paving and coating

Demolition - 31116 sf of existing res. and com. uses on-site

Grading -

Architectural Coating - per green building checklist - providing no-VOC paints (≤ 5 g/L) on interior applications

Vehicle Trips - Rates per traffic study (Fehr & Peers, 2016)

Woodstoves - no hearths

Area Coating - no-VOC interior paints per green building checklist

Construction Off-road Equipment Mitigation -

| Table Name | Column Name | Default Value | New Value |
|---------------------------|----------------------------|---------------|-----------|
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 5.00 |
| tblArchitecturalCoating | EF_Residential_Interior | 50.00 | 5.00 |
| tblConstructionPhase | NumDays | 10.00 | 56.00 |
| tblConstructionPhase | NumDays | 200.00 | 304.00 |
| tblConstructionPhase | NumDays | 20.00 | 22.00 |
| tblConstructionPhase | NumDays | 4.00 | 86.00 |
| tblFireplaces | FireplaceDayYear | 25.00 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 1,019.20 | 0.00 |
| tblGrading | MaterialExported | 0.00 | 49,800.00 |
| tblLandUse | LotAcreage | 1.06 | 1.26 |
| tblLandUse | LotAcreage | 2.35 | 0.00 |
| tblLandUse | LotAcreage | 0.02 | 0.00 |
| tblLandUse | LotAcreage | 0.37 | 0.00 |
| tblLandUse | LotAcreage | 0.40 | 0.00 |
| tblProjectCharacteristics | OperationalYear | 2014 | 2019 |
| tblVehicleTrips | WD_TR | 6.59 | 6.65 |
| tblVehicleTrips | WD_TR | 11.01 | 11.03 |
| tblWoodstoves | WoodstoveDayYear | 25.00 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 999.60 | 0.00 |

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.8669 | 1.7200e-003 | 0.1493 | 1.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | 0.0000 | 0.2439 | 0.2439 | 2.5000e-004 | 0.0000 | 0.2492 |
| Energy | 4.7100e-003 | 0.0425 | 0.0339 | 2.6000e-004 | | 3.2500e-003 | 3.2500e-003 | | 3.2500e-003 | 3.2500e-003 | 0.0000 | 543.0775 | 543.0775 | 0.0237 | 5.5800e-003 | 545.3041 |
| Mobile | 0.6699 | 1.7590 | 6.9214 | 0.0178 | 1.1726 | 0.0257 | 1.1984 | 0.3141 | 0.0237 | 0.3378 | 0.0000 | 1,299.9938 | 1,299.9938 | 0.0503 | 0.0000 | 1,301.0492 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 16.2454 | 0.0000 | 16.2454 | 0.9601 | 0.0000 | 36.4069 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 3.3941 | 60.2059 | 63.6000 | 0.3514 | 8.8000e-003 | 73.7082 |
| Total | 1.5416 | 1.8032 | 7.1046 | 0.0181 | 1.1726 | 0.0298 | 1.2024 | 0.3141 | 0.0278 | 0.3419 | 19.6395 | 1,903.5211 | 1,923.1606 | 1.3857 | 0.0144 | 1,956.7176 |

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 | 0.8669 | 1.7200e-003 | 0.1493 | 1.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | 0.0000 | 0.2439 | 0.2439 | 2.5000e-004 | 0.0000 | 0.2492 |
| Energy | 4.7100e-003 | 0.0425 | 0.0339 | 2.6000e-004 | | 3.2500e-003 | 3.2500e-003 | | 3.2500e-003 | 3.2500e-003 | 0.0000 | 543.0775 | 543.0775 | 0.0237 | 5.5800e-003 | 545.3041 |
| Mobile | 0.6699 | 1.7590 | 6.9214 | 0.0178 | 1.1726 | 0.0257 | 1.1984 | 0.3141 | 0.0237 | 0.3378 | 0.0000 | 1,299.9938 | 1,299.9938 | 0.0503 | 0.0000 | 1,301.0492 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 16.2454 | 0.0000 | 16.2454 | 0.9601 | 0.0000 | 36.4069 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 3.3941 | 60.2059 | 63.6000 | 0.3513 | 8.7900e-003 | 73.7028 |
| Total | 1.5416 | 1.8032 | 7.1046 | 0.0181 | 1.1726 | 0.0298 | 1.2024 | 0.3141 | 0.0278 | 0.3419 | 19.6395 | 1,903.5211 | 1,923.1606 | 1.3856 | 0.0144 | 1,956.7122 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.07 | 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 | 1/1/2017 | 1/31/2017 | 5 | 22 | |
| 2 | Grading | Grading | 2/1/2017 | 5/31/2017 | 5 | 86 | |
| 3 | Building Construction | Building Construction | 6/1/2017 | 7/31/2018 | 5 | 304 | |
| 4 | Paving | Paving | 8/1/2018 | 8/14/2018 | 5 | 10 | |
| 5 | Architectural Coating | Architectural Coating | 8/15/2018 | 10/31/2018 | 5 | 56 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 32.25

Acres of Paving: 0

Residential Indoor: 28,350; Residential Outdoor: 9,450; Non-Residential Indoor: 253,350; Non-Residential Outdoor: 84,450 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Demolition | Rubber Tired Dozers | 1 | 8.00 | 255 | 0.40 |
| Demolition | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |
| Grading | Graders | 1 | 6.00 | 174 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 6.00 | 255 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 1 | 7.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 6.00 | 226 | 0.29 |
| Building Construction | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 1 | 6.00 | 97 | 0.37 |
| Building Construction | Welders | 3 | 8.00 | 46 | 0.45 |
| Paving | Cement and Mortar Mixers | 1 | 6.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 6.00 | 125 | 0.42 |
| Paving | Paving Equipment | 1 | 8.00 | 130 | 0.36 |
| Paving | Rollers | 1 | 7.00 | 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 |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 5 | 13.00 | 0.00 | 142.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 3 | 8.00 | 0.00 | 6,225.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 7 | 75.00 | 29.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 5 | 13.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 15.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2017

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 | | | | | 0.0153 | 0.0000 | 0.0153 | 2.3200e-003 | 0.0000 | 2.3200e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0299 | 0.2924 | 0.2296 | 2.7000e-004 | | 0.0177 | 0.0177 | | 0.0165 | 0.0165 | 0.0000 | 24.5232 | 24.5232 | 6.2200e-003 | 0.0000 | 24.6538 |
| Total | 0.0299 | 0.2924 | 0.2296 | 2.7000e-004 | 0.0153 | 0.0177 | 0.0330 | 2.3200e-003 | 0.0165 | 0.0188 | 0.0000 | 24.5232 | 24.5232 | 6.2200e-003 | 0.0000 | 24.6538 |

3.2 Demolition - 2017

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 | 1.2300e-003 | 0.0193 | 0.0153 | 5.0000e-005 | 1.2200e-003 | 2.7000e-004 | 1.4800e-003 | 3.3000e-004 | 2.5000e-004 | 5.8000e-004 | 0.0000 | 4.7646 | 4.7646 | 4.0000e-005 | 0.0000 | 4.7654 |
| 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 | 5.6000e-004 | 8.3000e-004 | 8.5900e-003 | 2.0000e-005 | 1.5700e-003 | 1.0000e-005 | 1.5800e-003 | 4.2000e-004 | 1.0000e-005 | 4.3000e-004 | 0.0000 | 1.4718 | 1.4718 | 8.0000e-005 | 0.0000 | 1.4735 |
| Total | 1.7900e-003 | 0.0201 | 0.0239 | 7.0000e-005 | 2.7900e-003 | 2.8000e-004 | 3.0600e-003 | 7.5000e-004 | 2.6000e-004 | 1.0100e-003 | 0.0000 | 6.2364 | 6.2364 | 1.2000e-004 | 0.0000 | 6.2388 |

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 | | | | | 6.8900e-003 | 0.0000 | 6.8900e-003 | 1.0400e-003 | 0.0000 | 1.0400e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0299 | 0.2924 | 0.2296 | 2.7000e-004 | | 0.0177 | 0.0177 | | 0.0165 | 0.0165 | 0.0000 | 24.5231 | 24.5231 | 6.2200e-003 | 0.0000 | 24.6538 |
| Total | 0.0299 | 0.2924 | 0.2296 | 2.7000e-004 | 6.8900e-003 | 0.0177 | 0.0246 | 1.0400e-003 | 0.0165 | 0.0176 | 0.0000 | 24.5231 | 24.5231 | 6.2200e-003 | 0.0000 | 24.6538 |

3.2 Demolition - 2017

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 | 1.2300e-003 | 0.0193 | 0.0153 | 5.0000e-005 | 1.2200e-003 | 2.7000e-004 | 1.4800e-003 | 3.3000e-004 | 2.5000e-004 | 5.8000e-004 | 0.0000 | 4.7646 | 4.7646 | 4.0000e-005 | 0.0000 | 4.7654 |
| 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 | 5.6000e-004 | 8.3000e-004 | 8.5900e-003 | 2.0000e-005 | 1.5700e-003 | 1.0000e-005 | 1.5800e-003 | 4.2000e-004 | 1.0000e-005 | 4.3000e-004 | 0.0000 | 1.4718 | 1.4718 | 8.0000e-005 | 0.0000 | 1.4735 |
| Total | 1.7900e-003 | 0.0201 | 0.0239 | 7.0000e-005 | 2.7900e-003 | 2.8000e-004 | 3.0600e-003 | 7.5000e-004 | 2.6000e-004 | 1.0100e-003 | 0.0000 | 6.2364 | 6.2364 | 1.2000e-004 | 0.0000 | 6.2388 |

3.3 Grading - 2017

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 | | | | | 0.2141 | 0.0000 | 0.2141 | 0.1090 | 0.0000 | 0.1090 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0810 | 0.8509 | 0.5667 | 6.0000e-004 | | 0.0458 | 0.0458 | | 0.0422 | 0.0422 | 0.0000 | 56.1413 | 56.1413 | 0.0172 | 0.0000 | 56.5025 |
| Total | 0.0810 | 0.8509 | 0.5667 | 6.0000e-004 | 0.2141 | 0.0458 | 0.2600 | 0.1090 | 0.0422 | 0.1512 | 0.0000 | 56.1413 | 56.1413 | 0.0172 | 0.0000 | 56.5025 |

3.3 Grading - 2017

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 | 0.0537 | 0.8443 | 0.6711 | 2.3200e-003 | 0.0533 | 0.0118 | 0.0651 | 0.0146 | 0.0109 | 0.0255 | 0.0000 | 208.8716 | 208.8716 | 1.5500e-003 | 0.0000 | 208.9042 |
| 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 | 1.3500e-003 | 1.9900e-003 | 0.0207 | 5.0000e-005 | 3.7700e-003 | 3.0000e-005 | 3.8000e-003 | 1.0000e-003 | 3.0000e-005 | 1.0300e-003 | 0.0000 | 3.5405 | 3.5405 | 1.9000e-004 | 0.0000 | 3.5445 |
| Total | 0.0551 | 0.8462 | 0.6918 | 2.3700e-003 | 0.0571 | 0.0118 | 0.0689 | 0.0156 | 0.0109 | 0.0265 | 0.0000 | 212.4121 | 212.4121 | 1.7400e-003 | 0.0000 | 212.4487 |

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 | | | | | 0.0964 | 0.0000 | 0.0964 | 0.0491 | 0.0000 | 0.0491 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0810 | 0.8509 | 0.5667 | 6.0000e-004 | | 0.0458 | 0.0458 | | 0.0422 | 0.0422 | 0.0000 | 56.1412 | 56.1412 | 0.0172 | 0.0000 | 56.5024 |
| Total | 0.0810 | 0.8509 | 0.5667 | 6.0000e-004 | 0.0964 | 0.0458 | 0.1422 | 0.0491 | 0.0422 | 0.0912 | 0.0000 | 56.1412 | 56.1412 | 0.0172 | 0.0000 | 56.5024 |

3.3 Grading - 2017**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 | 0.0537 | 0.8443 | 0.6711 | 2.3200e-003 | 0.0533 | 0.0118 | 0.0651 | 0.0146 | 0.0109 | 0.0255 | 0.0000 | 208.8716 | 208.8716 | 1.5500e-003 | 0.0000 | 208.9042 |
| 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 | 1.3500e-003 | 1.9900e-003 | 0.0207 | 5.0000e-005 | 3.7700e-003 | 3.0000e-005 | 3.8000e-003 | 1.0000e-003 | 3.0000e-005 | 1.0300e-003 | 0.0000 | 3.5405 | 3.5405 | 1.9000e-004 | 0.0000 | 3.5445 |
| Total | 0.0551 | 0.8462 | 0.6918 | 2.3700e-003 | 0.0571 | 0.0118 | 0.0689 | 0.0156 | 0.0109 | 0.0265 | 0.0000 | 212.4121 | 212.4121 | 1.7400e-003 | 0.0000 | 212.4487 |

3.4 Building Construction - 2017**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 | 0.2246 | 1.4523 | 1.0876 | 1.6700e-003 | | 0.0932 | 0.0932 | | 0.0899 | 0.0899 | 0.0000 | 140.2560 | 140.2560 | 0.0294 | 0.0000 | 140.8740 |
| Total | 0.2246 | 1.4523 | 1.0876 | 1.6700e-003 | | 0.0932 | 0.0932 | | 0.0899 | 0.0899 | 0.0000 | 140.2560 | 140.2560 | 0.0294 | 0.0000 | 140.8740 |

3.4 Building Construction - 2017

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 | 0.0181 | 0.1837 | 0.2479 | 4.8000e-004 | 0.0135 | 2.7000e-003 | 0.0162 | 3.8600e-003 | 2.4800e-003 | 6.3400e-003 | 0.0000 | 43.1771 | 43.1771 | 3.2000e-004 | 0.0000 | 43.1838 |
| Worker | 0.0223 | 0.0329 | 0.3424 | 7.9000e-004 | 0.0625 | 5.8000e-004 | 0.0630 | 0.0166 | 5.3000e-004 | 0.0171 | 0.0000 | 58.6649 | 58.6649 | 3.2000e-003 | 0.0000 | 58.7320 |
| Total | 0.0404 | 0.2166 | 0.5903 | 1.2700e-003 | 0.0760 | 3.2800e-003 | 0.0793 | 0.0205 | 3.0100e-003 | 0.0235 | 0.0000 | 101.8420 | 101.8420 | 3.5200e-003 | 0.0000 | 101.9158 |

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 | 0.2246 | 1.4523 | 1.0876 | 1.6700e-003 | | 0.0932 | 0.0932 | | 0.0899 | 0.0899 | 0.0000 | 140.2558 | 140.2558 | 0.0294 | 0.0000 | 140.8738 |
| Total | 0.2246 | 1.4523 | 1.0876 | 1.6700e-003 | | 0.0932 | 0.0932 | | 0.0899 | 0.0899 | 0.0000 | 140.2558 | 140.2558 | 0.0294 | 0.0000 | 140.8738 |

3.4 Building Construction - 2017**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 | 0.0181 | 0.1837 | 0.2479 | 4.8000e-004 | 0.0135 | 2.7000e-003 | 0.0162 | 3.8600e-003 | 2.4800e-003 | 6.3400e-003 | 0.0000 | 43.1771 | 43.1771 | 3.2000e-004 | 0.0000 | 43.1838 |
| Worker | 0.0223 | 0.0329 | 0.3424 | 7.9000e-004 | 0.0625 | 5.8000e-004 | 0.0630 | 0.0166 | 5.3000e-004 | 0.0171 | 0.0000 | 58.6649 | 58.6649 | 3.2000e-003 | 0.0000 | 58.7320 |
| Total | 0.0404 | 0.2166 | 0.5903 | 1.2700e-003 | 0.0760 | 3.2800e-003 | 0.0793 | 0.0205 | 3.0100e-003 | 0.0235 | 0.0000 | 101.8420 | 101.8420 | 3.5200e-003 | 0.0000 | 101.9158 |

3.4 Building Construction - 2018**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 | 0.1963 | 1.3161 | 1.0515 | 1.6700e-003 | | 0.0801 | 0.0801 | | 0.0773 | 0.0773 | 0.0000 | 139.3685 | 139.3685 | 0.0280 | 0.0000 | 139.9561 |
| Total | 0.1963 | 1.3161 | 1.0515 | 1.6700e-003 | | 0.0801 | 0.0801 | | 0.0773 | 0.0773 | 0.0000 | 139.3685 | 139.3685 | 0.0280 | 0.0000 | 139.9561 |

3.4 Building Construction - 2018

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 | 0.0170 | 0.1688 | 0.2379 | 4.8000e-004 | 0.0135 | 2.5400e-003 | 0.0161 | 3.8600e-003 | 2.3400e-003 | 6.2000e-003 | 0.0000 | 42.4637 | 42.4637 | 3.2000e-004 | 0.0000 | 42.4703 |
| Worker | 0.0200 | 0.0299 | 0.3101 | 7.9000e-004 | 0.0625 | 5.6000e-004 | 0.0630 | 0.0166 | 5.2000e-004 | 0.0171 | 0.0000 | 56.5149 | 56.5149 | 2.9700e-003 | 0.0000 | 56.5772 |
| Total | 0.0370 | 0.1987 | 0.5480 | 1.2700e-003 | 0.0760 | 3.1000e-003 | 0.0791 | 0.0205 | 2.8600e-003 | 0.0233 | 0.0000 | 98.9786 | 98.9786 | 3.2900e-003 | 0.0000 | 99.0476 |

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 | 0.1963 | 1.3161 | 1.0515 | 1.6700e-003 | | 0.0801 | 0.0801 | | 0.0773 | 0.0773 | 0.0000 | 139.3683 | 139.3683 | 0.0280 | 0.0000 | 139.9560 |
| Total | 0.1963 | 1.3161 | 1.0515 | 1.6700e-003 | | 0.0801 | 0.0801 | | 0.0773 | 0.0773 | 0.0000 | 139.3683 | 139.3683 | 0.0280 | 0.0000 | 139.9560 |

3.4 Building Construction - 2018**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 | 0.0170 | 0.1688 | 0.2379 | 4.8000e-004 | 0.0135 | 2.5400e-003 | 0.0161 | 3.8600e-003 | 2.3400e-003 | 6.2000e-003 | 0.0000 | 42.4637 | 42.4637 | 3.2000e-004 | 0.0000 | 42.4703 |
| Worker | 0.0200 | 0.0299 | 0.3101 | 7.9000e-004 | 0.0625 | 5.6000e-004 | 0.0630 | 0.0166 | 5.2000e-004 | 0.0171 | 0.0000 | 56.5149 | 56.5149 | 2.9700e-003 | 0.0000 | 56.5772 |
| Total | 0.0370 | 0.1987 | 0.5480 | 1.2700e-003 | 0.0760 | 3.1000e-003 | 0.0791 | 0.0205 | 2.8600e-003 | 0.0233 | 0.0000 | 98.9786 | 98.9786 | 3.2900e-003 | 0.0000 | 99.0476 |

3.5 Paving - 2018**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 | 5.0300e-003 | 0.0515 | 0.0444 | 7.0000e-005 | | 3.0100e-003 | 3.0100e-003 | | 2.7800e-003 | 2.7800e-003 | 0.0000 | 6.0173 | 6.0173 | 1.8400e-003 | 0.0000 | 6.0558 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 5.0300e-003 | 0.0515 | 0.0444 | 7.0000e-005 | | 3.0100e-003 | 3.0100e-003 | | 2.7800e-003 | 2.7800e-003 | 0.0000 | 6.0173 | 6.0173 | 1.8400e-003 | 0.0000 | 6.0558 |

3.5 Paving - 2018

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 | 3.4000e-004 | 3.5400e-003 | 1.0000e-005 | 7.1000e-004 | 1.0000e-005 | 7.2000e-004 | 1.9000e-004 | 1.0000e-005 | 2.0000e-004 | 0.0000 | 0.6445 | 0.6445 | 3.0000e-005 | 0.0000 | 0.6452 |
| Total | 2.3000e-004 | 3.4000e-004 | 3.5400e-003 | 1.0000e-005 | 7.1000e-004 | 1.0000e-005 | 7.2000e-004 | 1.9000e-004 | 1.0000e-005 | 2.0000e-004 | 0.0000 | 0.6445 | 0.6445 | 3.0000e-005 | 0.0000 | 0.6452 |

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 | 5.0300e-003 | 0.0515 | 0.0444 | 7.0000e-005 | | 3.0100e-003 | 3.0100e-003 | | 2.7800e-003 | 2.7800e-003 | 0.0000 | 6.0172 | 6.0172 | 1.8400e-003 | 0.0000 | 6.0558 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 5.0300e-003 | 0.0515 | 0.0444 | 7.0000e-005 | | 3.0100e-003 | 3.0100e-003 | | 2.7800e-003 | 2.7800e-003 | 0.0000 | 6.0172 | 6.0172 | 1.8400e-003 | 0.0000 | 6.0558 |

3.5 Paving - 2018

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 | 3.4000e-004 | 3.5400e-003 | 1.0000e-005 | 7.1000e-004 | 1.0000e-005 | 7.2000e-004 | 1.9000e-004 | 1.0000e-005 | 2.0000e-004 | 0.0000 | 0.6445 | 0.6445 | 3.0000e-005 | 0.0000 | 0.6452 |
| Total | 2.3000e-004 | 3.4000e-004 | 3.5400e-003 | 1.0000e-005 | 7.1000e-004 | 1.0000e-005 | 7.2000e-004 | 1.9000e-004 | 1.0000e-005 | 2.0000e-004 | 0.0000 | 0.6445 | 0.6445 | 3.0000e-005 | 0.0000 | 0.6452 |

3.6 Architectural Coating - 2018

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 | 0.5438 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 8.3600e-003 | 0.0562 | 0.0519 | 8.0000e-005 | | 4.2200e-003 | 4.2200e-003 | | 4.2200e-003 | 4.2200e-003 | 0.0000 | 7.1491 | 7.1491 | 6.8000e-004 | 0.0000 | 7.1634 |
| Total | 0.5522 | 0.0562 | 0.0519 | 8.0000e-005 | | 4.2200e-003 | 4.2200e-003 | | 4.2200e-003 | 4.2200e-003 | 0.0000 | 7.1491 | 7.1491 | 6.8000e-004 | 0.0000 | 7.1634 |

3.6 Architectural Coating - 2018

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 | 1.4700e-003 | 2.2000e-003 | 0.0229 | 6.0000e-005 | 4.6000e-003 | 4.0000e-005 | 4.6400e-003 | 1.2200e-003 | 4.0000e-005 | 1.2600e-003 | 0.0000 | 4.1643 | 4.1643 | 2.2000e-004 | 0.0000 | 4.1689 |
| Total | 1.4700e-003 | 2.2000e-003 | 0.0229 | 6.0000e-005 | 4.6000e-003 | 4.0000e-005 | 4.6400e-003 | 1.2200e-003 | 4.0000e-005 | 1.2600e-003 | 0.0000 | 4.1643 | 4.1643 | 2.2000e-004 | 0.0000 | 4.1689 |

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 | 0.5438 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 8.3600e-003 | 0.0562 | 0.0519 | 8.0000e-005 | | 4.2200e-003 | 4.2200e-003 | | 4.2200e-003 | 4.2200e-003 | 0.0000 | 7.1491 | 7.1491 | 6.8000e-004 | 0.0000 | 7.1634 |
| Total | 0.5522 | 0.0562 | 0.0519 | 8.0000e-005 | | 4.2200e-003 | 4.2200e-003 | | 4.2200e-003 | 4.2200e-003 | 0.0000 | 7.1491 | 7.1491 | 6.8000e-004 | 0.0000 | 7.1634 |

3.6 Architectural Coating - 2018

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 | 1.4700e-003 | 2.2000e-003 | 0.0229 | 6.0000e-005 | 4.6000e-003 | 4.0000e-005 | 4.6400e-003 | 1.2200e-003 | 4.0000e-005 | 1.2600e-003 | 0.0000 | 4.1643 | 4.1643 | 2.2000e-004 | 0.0000 | 4.1689 |
| Total | 1.4700e-003 | 2.2000e-003 | 0.0229 | 6.0000e-005 | 4.6000e-003 | 4.0000e-005 | 4.6400e-003 | 1.2200e-003 | 4.0000e-005 | 1.2600e-003 | 0.0000 | 4.1643 | 4.1643 | 2.2000e-004 | 0.0000 | 4.1689 |

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 | 0.6699 | 1.7590 | 6.9214 | 0.0178 | 1.1726 | 0.0257 | 1.1984 | 0.3141 | 0.0237 | 0.3378 | 0.0000 | 1,299.9938 | 1,299.9938 | 0.0503 | 0.0000 | 1,301.0492 |
| Unmitigated | 0.6699 | 1.7590 | 6.9214 | 0.0178 | 1.1726 | 0.0257 | 1.1984 | 0.3141 | 0.0237 | 0.3378 | 0.0000 | 1,299.9938 | 1,299.9938 | 0.0503 | 0.0000 | 1,301.0492 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------------------|-------------------------|-----------------|---------------|------------------|------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Mid Rise | 93.10 | 100.24 | 84.98 | 317,658 | 317,658 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | | |
| General Office Building | 507.40 | 109.02 | 45.08 | 1,238,475 | 1,238,475 |
| High Turnover (Sit Down Restaurant) | 134.02 | 166.92 | 138.96 | 190,010 | 190,010 |
| Strip Mall | 773.12 | 733.35 | 356.38 | 1,346,852 | 1,346,852 |
| Total | 1,507.64 | 1,109.53 | 625.40 | 3,092,996 | 3,092,996 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|--------------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Apartments Mid Rise | 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 |
| General Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| High Turnover (Sit Down) | 16.60 | 8.40 | 6.90 | 8.50 | 72.50 | 19.00 | 37 | 20 | 43 |
| Strip Mall | 16.60 | 8.40 | 6.90 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |

| LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0.530902 | 0.057841 | 0.178699 | 0.124790 | 0.039063 | 0.006298 | 0.016951 | 0.033908 | 0.002496 | 0.003149 | 0.003689 | 0.000536 | 0.001678 |

5.0 Energy Detail

4.4 Fleet Mix

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 | 496.4628 | 496.4628 | 0.0228 | 4.7200e-003 | 498.4057 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 496.4628 | 496.4628 | 0.0228 | 4.7200e-003 | 498.4057 |
| NaturalGas Mitigated | 4.7100e-003 | 0.0425 | 0.0339 | 2.6000e-004 | | 3.2500e-003 | 3.2500e-003 | | 3.2500e-003 | 3.2500e-003 | 0.0000 | 46.6147 | 46.6147 | 8.9000e-004 | 8.5000e-004 | 46.8984 |
| NaturalGas Unmitigated | 4.7100e-003 | 0.0425 | 0.0339 | 2.6000e-004 | | 3.2500e-003 | 3.2500e-003 | | 3.2500e-003 | 3.2500e-003 | 0.0000 | 46.6147 | 46.6147 | 8.9000e-004 | 8.5000e-004 | 46.8984 |

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 Office Building | 502802 | 2.7100e-003 | 0.0247 | 0.0207 | 1.5000e-004 | | 1.8700e-003 | 1.8700e-003 | | 1.8700e-003 | 1.8700e-003 | 0.0000 | 26.8314 | 26.8314 | 5.1000e-004 | 4.9000e-004 | 26.9947 |
| High Turnover (Sit Down Restaurant) | 245593 | 1.3200e-003 | 0.0120 | 0.0101 | 7.0000e-005 | | 9.1000e-004 | 9.1000e-004 | | 9.1000e-004 | 9.1000e-004 | 0.0000 | 13.1058 | 13.1058 | 2.5000e-004 | 2.4000e-004 | 13.1855 |
| Strip Mall | 29654.8 | 1.6000e-004 | 1.4500e-003 | 1.2200e-003 | 1.0000e-005 | | 1.1000e-004 | 1.1000e-004 | | 1.1000e-004 | 1.1000e-004 | 0.0000 | 1.5825 | 1.5825 | 3.0000e-005 | 3.0000e-005 | 1.5921 |
| Apartments Mid Rise | 95477.2 | 5.1000e-004 | 4.4000e-003 | 1.8700e-003 | 3.0000e-005 | | 3.6000e-004 | 3.6000e-004 | | 3.6000e-004 | 3.6000e-004 | 0.0000 | 5.0950 | 5.0950 | 1.0000e-004 | 9.0000e-005 | 5.1260 |
| 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 | | 4.7000e-003 | 0.0425 | 0.0339 | 2.6000e-004 | | 3.2500e-003 | 3.2500e-003 | | 3.2500e-003 | 3.2500e-003 | 0.0000 | 46.6147 | 46.6147 | 8.9000e-004 | 8.5000e-004 | 46.8984 |

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 Office Building | 502802 | 2.7100e-003 | 0.0247 | 0.0207 | 1.5000e-004 | | 1.8700e-003 | 1.8700e-003 | | 1.8700e-003 | 1.8700e-003 | 0.0000 | 26.8314 | 26.8314 | 5.1000e-004 | 4.9000e-004 | 26.9947 |
| High Turnover (Sit Down Restaurant) | 245593 | 1.3200e-003 | 0.0120 | 0.0101 | 7.0000e-005 | | 9.1000e-004 | 9.1000e-004 | | 9.1000e-004 | 9.1000e-004 | 0.0000 | 13.1058 | 13.1058 | 2.5000e-004 | 2.4000e-004 | 13.1855 |
| Strip Mall | 29654.8 | 1.6000e-004 | 1.4500e-003 | 1.2200e-003 | 1.0000e-005 | | 1.1000e-004 | 1.1000e-004 | | 1.1000e-004 | 1.1000e-004 | 0.0000 | 1.5825 | 1.5825 | 3.0000e-005 | 3.0000e-005 | 1.5921 |
| Apartments Mid Rise | 95477.2 | 5.1000e-004 | 4.4000e-003 | 1.8700e-003 | 3.0000e-005 | | 3.6000e-004 | 3.6000e-004 | | 3.6000e-004 | 3.6000e-004 | 0.0000 | 5.0950 | 5.0950 | 1.0000e-004 | 9.0000e-005 | 5.1260 |
| 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 | | 4.7000e-003 | 0.0425 | 0.0339 | 2.6000e-004 | | 3.2500e-003 | 3.2500e-003 | | 3.2500e-003 | 3.2500e-003 | 0.0000 | 46.6147 | 46.6147 | 8.9000e-004 | 8.5000e-004 | 46.8984 |

5.3 Energy by Land Use - Electricity

Unmitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments Mid Rise | 48737.8 | 13.9471 | 6.4000e-004 | 1.3000e-004 | 14.0017 |
| Enclosed Parking with Elevator | 703656 | 201.3631 | 9.2600e-003 | 1.9200e-003 | 202.1511 |
| General Office Building | 668409 | 191.2765 | 8.7900e-003 | 1.8200e-003 | 192.0251 |
| High Turnover (Sit Down Restaurant) | 49443.1 | 14.1490 | 6.5000e-004 | 1.3000e-004 | 14.2044 |
| Strip Mall | 264625 | 75.7271 | 3.4800e-003 | 7.2000e-004 | 76.0234 |
| Total | | 496.4628 | 0.0228 | 4.7200e-003 | 498.4057 |

5.3 Energy by Land Use - Electricity

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments Mid Rise | 48737.8 | 13.9471 | 6.4000e-004 | 1.3000e-004 | 14.0017 |
| Enclosed Parking with Elevator | 703656 | 201.3631 | 9.2600e-003 | 1.9200e-003 | 202.1511 |
| General Office Building | 668409 | 191.2765 | 8.7900e-003 | 1.8200e-003 | 192.0251 |
| High Turnover (Sit Down Restaurant) | 49443.1 | 14.1490 | 6.5000e-004 | 1.3000e-004 | 14.2044 |
| Strip Mall | 264625 | 75.7271 | 3.4800e-003 | 7.2000e-004 | 76.0234 |
| Total | | 496.4628 | 0.0228 | 4.7200e-003 | 498.4057 |

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 | 0.8669 | 1.7200e-003 | 0.1493 | 1.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | 0.0000 | 0.2439 | 0.2439 | 2.5000e-004 | 0.0000 | 0.2492 |
| Unmitigated | 0.8669 | 1.7200e-003 | 0.1493 | 1.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | 0.0000 | 0.2439 | 0.2439 | 2.5000e-004 | 0.0000 | 0.2492 |

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 | 0.2012 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.6609 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 4.8400e-003 | 1.7200e-003 | 0.1493 | 1.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | 0.0000 | 0.2439 | 0.2439 | 2.5000e-004 | 0.0000 | 0.2492 |
| Total | 0.8669 | 1.7200e-003 | 0.1493 | 1.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | 0.0000 | 0.2439 | 0.2439 | 2.5000e-004 | 0.0000 | 0.2492 |

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 | 0.2012 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.6609 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 4.8400e-003 | 1.7200e-003 | 0.1493 | 1.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | 0.0000 | 0.2439 | 0.2439 | 2.5000e-004 | 0.0000 | 0.2492 |
| Total | 0.8669 | 1.7200e-003 | 0.1493 | 1.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | 0.0000 | 0.2439 | 0.2439 | 2.5000e-004 | 0.0000 | 0.2492 |

7.0 Water Detail

7.1 Mitigation Measures Water

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|-------------|---------|
| Category | MT/yr | | | |
| Mitigated | 63.6000 | 0.3513 | 8.7900e-003 | 73.7028 |
| Unmitigated | 63.6000 | 0.3514 | 8.8000e-003 | 73.7082 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|---------------------|----------------|---------------|--------------------|----------------|
| Land Use | Mgal | MT/yr | | | |
| Apartments Mid Rise | 0.912156 / 0.575055 | 5.5165 | 0.0300 | 7.5000e-004 | 6.3787 |
| Enclosed Parking with Elevator | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 8.17575 / 5.01095 | 48.9895 | 0.2685 | 6.7300e-003 | 56.7156 |
| High Turnover (Sit Down Restaurant) | 0.31871 / 0.0203432 | 1.3534 | 0.0104 | 2.6000e-004 | 1.6524 |
| Strip Mall | 1.29182 / 0.791764 | 7.7407 | 0.0424 | 1.0600e-003 | 8.9615 |
| Total | | 63.6000 | 0.3514 | 8.8000e-003 | 73.7082 |

7.2 Water by Land Use

Mitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|---------------------|----------------|---------------|--------------------|----------------|
| Land Use | Mgal | MT/yr | | | |
| Apartments Mid Rise | 0.912156 / 0.575055 | 5.5165 | 0.0300 | 7.5000e-004 | 6.3783 |
| Enclosed Parking with Elevator | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 8.17575 / 5.01095 | 48.9895 | 0.2685 | 6.7200e-003 | 56.7115 |
| High Turnover (Sit Down Restaurant) | 0.31871 / 0.0203432 | 1.3534 | 0.0104 | 2.6000e-004 | 1.6522 |
| Strip Mall | 1.29182 / 0.791764 | 7.7407 | 0.0424 | 1.0600e-003 | 8.9608 |
| Total | | 63.6000 | 0.3513 | 8.7900e-003 | 73.7028 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|---------|
| | MT/yr | | | |
| Mitigated | 16.2454 | 0.9601 | 0.0000 | 36.4069 |
| Unmitigated | 16.2454 | 0.9601 | 0.0000 | 36.4069 |

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use | tons | MT/yr | | | |
| Apartments Mid Rise | 6.44 | 1.3073 | 0.0773 | 0.0000 | 2.9297 |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 42.78 | 8.6840 | 0.5132 | 0.0000 | 19.4613 |
| High Turnover (Sit Down Restaurant) | 12.5 | 2.5374 | 0.1500 | 0.0000 | 5.6865 |
| Strip Mall | 18.31 | 3.7168 | 0.2197 | 0.0000 | 8.3295 |
| Total | | 16.2454 | 0.9601 | 0.0000 | 36.4069 |

8.2 Waste by Land Use

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use | tons | MT/yr | | | |
| Apartments Mid Rise | 6.44 | 1.3073 | 0.0773 | 0.0000 | 2.9297 |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 42.78 | 8.6840 | 0.5132 | 0.0000 | 19.4613 |
| High Turnover (Sit Down Restaurant) | 12.5 | 2.5374 | 0.1500 | 0.0000 | 5.6865 |
| Strip Mall | 18.31 | 3.7168 | 0.2197 | 0.0000 | 8.3295 |
| Total | | 16.2454 | 0.9601 | 0.0000 | 36.4069 |

9.0 Operational Offroad

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

10.0 Vegetation

Greenhouse Gas Emission Worksheet
N2O Mobile Emissions

8555 Santa Monica Blvd - Alternative 2

From CalEEMod Vehicle Fleet Mix Output:

Annual VMT: 3,092,996

| Vehicle Type | Percent Type | CH4 Emission Factor (g/mile)* | CH4 Emission (g/mile)** | N2O Emission Factor (g/mile)* | N2O Emission (g/mile)** |
|-------------------------------------|---------------|-------------------------------|-------------------------|-------------------------------|-------------------------|
| Light Auto | 53.1% | 0.04 | 0.0212361 | 0.04 | 0.021236 |
| Light Truck < 3750 lbs | 5.8% | 0.05 | 0.0028921 | 0.06 | 0.00347 |
| Light Truck 3751-5750 lbs | 17.9% | 0.05 | 0.008935 | 0.06 | 0.010722 |
| Med Truck 5751-8500 lbs | 12.5% | 0.12 | 0.0149748 | 0.2 | 0.024958 |
| Lite-Heavy Truck 8501-10,000 lbs | 3.9% | 0.12 | 0.0046876 | 0.2 | 0.007813 |
| Lite-Heavy Truck 10,001-14,000 lbs | 0.6% | 0.09 | 0.0005668 | 0.125 | 0.000787 |
| Med-Heavy Truck 14,001-33,000 lbs | 1.7% | 0.06 | 0.0010171 | 0.05 | 0.000848 |
| Heavy-Heavy Truck 33,001-60,000 lbs | 3.4% | 0.06 | 0.0020345 | 0.05 | 0.001695 |
| Other Bus | 0.2% | 0.06 | 0.0001498 | 0.05 | 0.000125 |
| Urban Bus | 0.3% | 0.06 | 0.0001889 | 0.05 | 0.000157 |
| Motorcycle | 0.4% | 0.09 | 0.000332 | 0.01 | 3.69E-05 |
| School Bus | 0.1% | 0.06 | 3.216E-05 | 0.05 | 2.68E-05 |
| Motor Home | 0.2% | 0.09 | 0.000151 | 0.125 | 0.00021 |
| Total | 100.0% | | 0.0571977 | | 0.072085 |

Total Emissions (metric tons) =

Emission Factor by Vehicle Mix (g/mi) x Annual VMT(mi) x 0.000001 metric tons/g

Conversion to Carbon Dioxide Equivalency (CO2e) Units based on Global Warming Potential (GWP)

CH4 21 GWP
 N2O 310 GWP
 1 ton (short, US) = 0.90718474 metric ton

Annual Mobile Emissions:

| | Total Emissions | Total CO2e units |
|----------------|--|------------------------|
| N2O Emissions: | 0.2230 metric tons N2O | 69.12 metric tons CO2e |
| | Project Total: 69.12 metric tons CO2e | |

References

- * from Table C.4: Methane and Nitrous Oxide Emission Factors for Mobile Sources by Vehicle and Fuel Type (g/mile). in California Climate Action Registry General Reporting Protocol, Reporting Entity-Wide Greenhouse Gas Emissions, Version 3.1, January 2009. Assume Model year 2000-present, gasoline fueled.
- ** Source: California Climate Action Registry General Reporting Protocol, Reporting Entity-Wide Greenhouse Gas Emissions, Version 3.1, January 2009.
- *** From URBEMIS 2007 results for mobile sources

8555 Santa Monica Blvd - Alternative 3
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|--------|---------------|-------------|--------------------|------------|
| General Office Building | 30.00 | 1000sqft | 1.26 | 30,000.00 | 0 |
| Enclosed Parking with Elevator | 307.00 | Space | 0.00 | 122,800.00 | 0 |
| High Turnover (Sit Down Restaurant) | 2.82 | 1000sqft | 0.00 | 2,820.00 | 0 |
| Apartments Mid Rise | 34.00 | Dwelling Unit | 0.00 | 34,000.00 | 97 |
| Strip Mall | 14.50 | 1000sqft | 0.00 | 14,500.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33 |
| Climate Zone | 11 | | | Operational Year | 2019 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MW hr) | 630.89 | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 1.26 ac site

Construction Phase - 1 mo demo, 4 mo excavation, 14 mo construction, 3 mo paving and coating

Demolition - 31116 sf of existing res. and com. uses on-site

Grading -

Architectural Coating - per green building checklist - providing no-VOC paints (≤ 5 g/L) on interior applications

Vehicle Trips - Rates per traffic study (Fehr & Peers, 2016)

Woodstoves - no hearths

Area Coating - no-VOC interior paints per green building checklist

Construction Off-road Equipment Mitigation -

| Table Name | Column Name | Default Value | New Value |
|---------------------------|----------------------------|---------------|-----------|
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 5.00 |
| tblArchitecturalCoating | EF_Residential_Interior | 50.00 | 5.00 |
| tblConstructionPhase | NumDays | 10.00 | 56.00 |
| tblConstructionPhase | NumDays | 200.00 | 304.00 |
| tblConstructionPhase | NumDays | 20.00 | 22.00 |
| tblConstructionPhase | NumDays | 4.00 | 86.00 |
| tblFireplaces | FireplaceDayYear | 25.00 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 1,019.20 | 0.00 |
| tblGrading | MaterialExported | 0.00 | 49,800.00 |
| tblLandUse | LotAcreage | 0.69 | 1.26 |
| tblLandUse | LotAcreage | 2.76 | 0.00 |
| tblLandUse | LotAcreage | 0.06 | 0.00 |
| tblLandUse | LotAcreage | 0.89 | 0.00 |
| tblLandUse | LotAcreage | 0.33 | 0.00 |
| tblProjectCharacteristics | OperationalYear | 2014 | 2019 |
| tblVehicleTrips | WD_TR | 6.59 | 6.65 |
| tblVehicleTrips | WD_TR | 11.01 | 11.03 |
| tblWoodstoves | WoodstoveDayYear | 25.00 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 999.60 | 0.00 |

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.9592 | 4.1200e-003 | 0.3569 | 2.0000e-005 | | 1.9500e-003 | 1.9500e-003 | | 1.9500e-003 | 1.9500e-003 | 0.0000 | 0.5815 | 0.5815 | 5.9000e-004 | 0.0000 | 0.5939 |
| Energy | 6.6900e-003 | 0.0602 | 0.0461 | 3.7000e-004 | | 4.6300e-003 | 4.6300e-003 | | 4.6300e-003 | 4.6300e-003 | 0.0000 | 562.5185 | 562.5185 | 0.0241 | 5.9300e-003 | 564.8639 |
| Mobile | 0.7185 | 1.8400 | 7.2962 | 0.0185 | 1.2159 | 0.0268 | 1.2427 | 0.3257 | 0.0247 | 0.3504 | 0.0000 | 1,350.1815 | 1,350.1815 | 0.0524 | 0.0000 | 1,351.2811 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 18.7422 | 0.0000 | 18.7422 | 1.1076 | 0.0000 | 42.0024 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 3.0067 | 52.4107 | 55.4174 | 0.3112 | 7.7900e-003 | 64.3682 |
| Total | 1.6845 | 1.9043 | 7.6992 | 0.0189 | 1.2159 | 0.0334 | 1.2492 | 0.3257 | 0.0313 | 0.3570 | 21.7489 | 1,965.6923 | 1,987.4411 | 1.4959 | 0.0137 | 2,023.1093 |

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 | 0.9592 | 4.1200e-003 | 0.3569 | 2.0000e-005 | | 1.9500e-003 | 1.9500e-003 | | 1.9500e-003 | 1.9500e-003 | 0.0000 | 0.5815 | 0.5815 | 5.9000e-004 | 0.0000 | 0.5939 |
| Energy | 6.6900e-003 | 0.0602 | 0.0461 | 3.7000e-004 | | 4.6300e-003 | 4.6300e-003 | | 4.6300e-003 | 4.6300e-003 | 0.0000 | 562.5185 | 562.5185 | 0.0241 | 5.9300e-003 | 564.8639 |
| Mobile | 0.7185 | 1.8400 | 7.2962 | 0.0185 | 1.2159 | 0.0268 | 1.2427 | 0.3257 | 0.0247 | 0.3504 | 0.0000 | 1,350.1815 | 1,350.1815 | 0.0524 | 0.0000 | 1,351.2811 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 18.7422 | 0.0000 | 18.7422 | 1.1076 | 0.0000 | 42.0024 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 3.0067 | 52.4107 | 55.4174 | 0.3112 | 7.7800e-003 | 64.3634 |
| Total | 1.6845 | 1.9043 | 7.6992 | 0.0189 | 1.2159 | 0.0334 | 1.2492 | 0.3257 | 0.0313 | 0.3570 | 21.7489 | 1,965.6923 | 1,987.4411 | 1.4958 | 0.0137 | 2,023.1045 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 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 | 1/1/2017 | 1/31/2017 | 5 | 22 | |
| 2 | Grading | Grading | 2/1/2017 | 5/31/2017 | 5 | 86 | |
| 3 | Building Construction | Building Construction | 6/1/2017 | 7/31/2018 | 5 | 304 | |
| 4 | Paving | Paving | 8/1/2018 | 8/14/2018 | 5 | 10 | |
| 5 | Architectural Coating | Architectural Coating | 8/15/2018 | 10/31/2018 | 5 | 56 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 32.25

Acres of Paving: 0

Residential Indoor: 68,850; Residential Outdoor: 22,950; Non-Residential Indoor: 255,180; Non-Residential Outdoor: 85,060 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Demolition | Rubber Tired Dozers | 1 | 8.00 | 255 | 0.40 |
| Demolition | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |
| Grading | Graders | 1 | 6.00 | 174 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 6.00 | 255 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 1 | 7.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 6.00 | 226 | 0.29 |
| Building Construction | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 1 | 6.00 | 97 | 0.37 |
| Building Construction | Welders | 3 | 8.00 | 46 | 0.45 |
| Paving | Cement and Mortar Mixers | 1 | 6.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 6.00 | 125 | 0.42 |
| Paving | Paving Equipment | 1 | 8.00 | 130 | 0.36 |
| Paving | Rollers | 1 | 7.00 | 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 |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 5 | 13.00 | 0.00 | 142.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 3 | 8.00 | 0.00 | 6,225.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 7 | 91.00 | 32.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 5 | 13.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 18.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2017

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 | | | | | 0.0153 | 0.0000 | 0.0153 | 2.3200e-003 | 0.0000 | 2.3200e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0299 | 0.2924 | 0.2296 | 2.7000e-004 | | 0.0177 | 0.0177 | | 0.0165 | 0.0165 | 0.0000 | 24.5232 | 24.5232 | 6.2200e-003 | 0.0000 | 24.6538 |
| Total | 0.0299 | 0.2924 | 0.2296 | 2.7000e-004 | 0.0153 | 0.0177 | 0.0330 | 2.3200e-003 | 0.0165 | 0.0188 | 0.0000 | 24.5232 | 24.5232 | 6.2200e-003 | 0.0000 | 24.6538 |

3.2 Demolition - 2017

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 | 1.2300e-003 | 0.0193 | 0.0153 | 5.0000e-005 | 1.2200e-003 | 2.7000e-004 | 1.4800e-003 | 3.3000e-004 | 2.5000e-004 | 5.8000e-004 | 0.0000 | 4.7646 | 4.7646 | 4.0000e-005 | 0.0000 | 4.7654 |
| 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 | 5.6000e-004 | 8.3000e-004 | 8.5900e-003 | 2.0000e-005 | 1.5700e-003 | 1.0000e-005 | 1.5800e-003 | 4.2000e-004 | 1.0000e-005 | 4.3000e-004 | 0.0000 | 1.4718 | 1.4718 | 8.0000e-005 | 0.0000 | 1.4735 |
| Total | 1.7900e-003 | 0.0201 | 0.0239 | 7.0000e-005 | 2.7900e-003 | 2.8000e-004 | 3.0600e-003 | 7.5000e-004 | 2.6000e-004 | 1.0100e-003 | 0.0000 | 6.2364 | 6.2364 | 1.2000e-004 | 0.0000 | 6.2388 |

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 | | | | | 6.8900e-003 | 0.0000 | 6.8900e-003 | 1.0400e-003 | 0.0000 | 1.0400e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0299 | 0.2924 | 0.2296 | 2.7000e-004 | | 0.0177 | 0.0177 | | 0.0165 | 0.0165 | 0.0000 | 24.5231 | 24.5231 | 6.2200e-003 | 0.0000 | 24.6538 |
| Total | 0.0299 | 0.2924 | 0.2296 | 2.7000e-004 | 6.8900e-003 | 0.0177 | 0.0246 | 1.0400e-003 | 0.0165 | 0.0176 | 0.0000 | 24.5231 | 24.5231 | 6.2200e-003 | 0.0000 | 24.6538 |

3.2 Demolition - 2017

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 | 1.2300e-003 | 0.0193 | 0.0153 | 5.0000e-005 | 1.2200e-003 | 2.7000e-004 | 1.4800e-003 | 3.3000e-004 | 2.5000e-004 | 5.8000e-004 | 0.0000 | 4.7646 | 4.7646 | 4.0000e-005 | 0.0000 | 4.7654 |
| 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 | 5.6000e-004 | 8.3000e-004 | 8.5900e-003 | 2.0000e-005 | 1.5700e-003 | 1.0000e-005 | 1.5800e-003 | 4.2000e-004 | 1.0000e-005 | 4.3000e-004 | 0.0000 | 1.4718 | 1.4718 | 8.0000e-005 | 0.0000 | 1.4735 |
| Total | 1.7900e-003 | 0.0201 | 0.0239 | 7.0000e-005 | 2.7900e-003 | 2.8000e-004 | 3.0600e-003 | 7.5000e-004 | 2.6000e-004 | 1.0100e-003 | 0.0000 | 6.2364 | 6.2364 | 1.2000e-004 | 0.0000 | 6.2388 |

3.3 Grading - 2017

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 | | | | | 0.2141 | 0.0000 | 0.2141 | 0.1090 | 0.0000 | 0.1090 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0810 | 0.8509 | 0.5667 | 6.0000e-004 | | 0.0458 | 0.0458 | | 0.0422 | 0.0422 | 0.0000 | 56.1413 | 56.1413 | 0.0172 | 0.0000 | 56.5025 |
| Total | 0.0810 | 0.8509 | 0.5667 | 6.0000e-004 | 0.2141 | 0.0458 | 0.2600 | 0.1090 | 0.0422 | 0.1512 | 0.0000 | 56.1413 | 56.1413 | 0.0172 | 0.0000 | 56.5025 |

3.3 Grading - 2017

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 | 0.0537 | 0.8443 | 0.6711 | 2.3200e-003 | 0.0533 | 0.0118 | 0.0651 | 0.0146 | 0.0109 | 0.0255 | 0.0000 | 208.8716 | 208.8716 | 1.5500e-003 | 0.0000 | 208.9042 |
| 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 | 1.3500e-003 | 1.9900e-003 | 0.0207 | 5.0000e-005 | 3.7700e-003 | 3.0000e-005 | 3.8000e-003 | 1.0000e-003 | 3.0000e-005 | 1.0300e-003 | 0.0000 | 3.5405 | 3.5405 | 1.9000e-004 | 0.0000 | 3.5445 |
| Total | 0.0551 | 0.8462 | 0.6918 | 2.3700e-003 | 0.0571 | 0.0118 | 0.0689 | 0.0156 | 0.0109 | 0.0265 | 0.0000 | 212.4121 | 212.4121 | 1.7400e-003 | 0.0000 | 212.4487 |

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 | | | | | 0.0964 | 0.0000 | 0.0964 | 0.0491 | 0.0000 | 0.0491 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0810 | 0.8509 | 0.5667 | 6.0000e-004 | | 0.0458 | 0.0458 | | 0.0422 | 0.0422 | 0.0000 | 56.1412 | 56.1412 | 0.0172 | 0.0000 | 56.5024 |
| Total | 0.0810 | 0.8509 | 0.5667 | 6.0000e-004 | 0.0964 | 0.0458 | 0.1422 | 0.0491 | 0.0422 | 0.0912 | 0.0000 | 56.1412 | 56.1412 | 0.0172 | 0.0000 | 56.5024 |

3.3 Grading - 2017

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 | 0.0537 | 0.8443 | 0.6711 | 2.3200e-003 | 0.0533 | 0.0118 | 0.0651 | 0.0146 | 0.0109 | 0.0255 | 0.0000 | 208.8716 | 208.8716 | 1.5500e-003 | 0.0000 | 208.9042 |
| 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 | 1.3500e-003 | 1.9900e-003 | 0.0207 | 5.0000e-005 | 3.7700e-003 | 3.0000e-005 | 3.8000e-003 | 1.0000e-003 | 3.0000e-005 | 1.0300e-003 | 0.0000 | 3.5405 | 3.5405 | 1.9000e-004 | 0.0000 | 3.5445 |
| Total | 0.0551 | 0.8462 | 0.6918 | 2.3700e-003 | 0.0571 | 0.0118 | 0.0689 | 0.0156 | 0.0109 | 0.0265 | 0.0000 | 212.4121 | 212.4121 | 1.7400e-003 | 0.0000 | 212.4487 |

3.4 Building Construction - 2017

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 | 0.2246 | 1.4523 | 1.0876 | 1.6700e-003 | | 0.0932 | 0.0932 | | 0.0899 | 0.0899 | 0.0000 | 140.2560 | 140.2560 | 0.0294 | 0.0000 | 140.8740 |
| Total | 0.2246 | 1.4523 | 1.0876 | 1.6700e-003 | | 0.0932 | 0.0932 | | 0.0899 | 0.0899 | 0.0000 | 140.2560 | 140.2560 | 0.0294 | 0.0000 | 140.8740 |

3.4 Building Construction - 2017

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 | 0.0000 |
| Vendor | 0.0199 | 0.2027 | 0.2735 | 5.3000e-004 | 0.0149 | 2.9800e-003 | 0.0179 | 4.2600e-003 | 2.7400e-003 | 6.9900e-003 | 0.0000 | 47.6437 | 47.6437 | 3.5000e-004 | 0.0000 | 47.6511 | |
| Worker | 0.0271 | 0.0399 | 0.4155 | 9.6000e-004 | 0.0758 | 7.0000e-004 | 0.0765 | 0.0201 | 6.5000e-004 | 0.0208 | 0.0000 | 71.1800 | 71.1800 | 3.8800e-003 | 0.0000 | 71.2615 | |
| Total | 0.0470 | 0.2427 | 0.6890 | 1.4900e-003 | 0.0907 | 3.6800e-003 | 0.0944 | 0.0244 | 3.3900e-003 | 0.0278 | 0.0000 | 118.8238 | 118.8238 | 4.2300e-003 | 0.0000 | 118.9126 | |

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 | 0.2246 | 1.4523 | 1.0876 | 1.6700e-003 | | 0.0932 | 0.0932 | | 0.0899 | 0.0899 | 0.0000 | 140.2558 | 140.2558 | 0.0294 | 0.0000 | 140.8738 |
| Total | 0.2246 | 1.4523 | 1.0876 | 1.6700e-003 | | 0.0932 | 0.0932 | | 0.0899 | 0.0899 | 0.0000 | 140.2558 | 140.2558 | 0.0294 | 0.0000 | 140.8738 |

3.4 Building Construction - 2017**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 | 0.0199 | 0.2027 | 0.2735 | 5.3000e-004 | 0.0149 | 2.9800e-003 | 0.0179 | 4.2600e-003 | 2.7400e-003 | 6.9900e-003 | 0.0000 | 47.6437 | 47.6437 | 3.5000e-004 | 0.0000 | 47.6511 |
| Worker | 0.0271 | 0.0399 | 0.4155 | 9.6000e-004 | 0.0758 | 7.0000e-004 | 0.0765 | 0.0201 | 6.5000e-004 | 0.0208 | 0.0000 | 71.1800 | 71.1800 | 3.8800e-003 | 0.0000 | 71.2615 |
| Total | 0.0470 | 0.2427 | 0.6890 | 1.4900e-003 | 0.0907 | 3.6800e-003 | 0.0944 | 0.0244 | 3.3900e-003 | 0.0278 | 0.0000 | 118.8238 | 118.8238 | 4.2300e-003 | 0.0000 | 118.9126 |

3.4 Building Construction - 2018**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 | 0.1963 | 1.3161 | 1.0515 | 1.6700e-003 | | 0.0801 | 0.0801 | | 0.0773 | 0.0773 | 0.0000 | 139.3685 | 139.3685 | 0.0280 | 0.0000 | 139.9561 |
| Total | 0.1963 | 1.3161 | 1.0515 | 1.6700e-003 | | 0.0801 | 0.0801 | | 0.0773 | 0.0773 | 0.0000 | 139.3685 | 139.3685 | 0.0280 | 0.0000 | 139.9561 |

3.4 Building Construction - 2018

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 | 0.0000 |
| Vendor | 0.0187 | 0.1863 | 0.2625 | 5.3000e-004 | 0.0149 | 2.8000e-003 | 0.0177 | 4.2600e-003 | 2.5800e-003 | 6.8400e-003 | 0.0000 | 46.8565 | 46.8565 | 3.5000e-004 | 0.0000 | 46.8638 | |
| Worker | 0.0243 | 0.0362 | 0.3763 | 9.6000e-004 | 0.0758 | 6.8000e-004 | 0.0765 | 0.0201 | 6.3000e-004 | 0.0208 | 0.0000 | 68.5714 | 68.5714 | 3.6000e-003 | 0.0000 | 68.6471 | |
| Total | 0.0430 | 0.2225 | 0.6388 | 1.4900e-003 | 0.0907 | 3.4800e-003 | 0.0942 | 0.0244 | 3.2100e-003 | 0.0276 | 0.0000 | 115.4279 | 115.4279 | 3.9500e-003 | 0.0000 | 115.5108 | |

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 | 0.1963 | 1.3161 | 1.0515 | 1.6700e-003 | | 0.0801 | 0.0801 | | 0.0773 | 0.0773 | 0.0000 | 139.3683 | 139.3683 | 0.0280 | 0.0000 | 139.9560 |
| Total | 0.1963 | 1.3161 | 1.0515 | 1.6700e-003 | | 0.0801 | 0.0801 | | 0.0773 | 0.0773 | 0.0000 | 139.3683 | 139.3683 | 0.0280 | 0.0000 | 139.9560 |

3.4 Building Construction - 2018

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 | 0.0187 | 0.1863 | 0.2625 | 5.3000e-004 | 0.0149 | 2.8000e-003 | 0.0177 | 4.2600e-003 | 2.5800e-003 | 6.8400e-003 | 0.0000 | 46.8565 | 46.8565 | 3.5000e-004 | 0.0000 | 46.8638 |
| Worker | 0.0243 | 0.0362 | 0.3763 | 9.6000e-004 | 0.0758 | 6.8000e-004 | 0.0765 | 0.0201 | 6.3000e-004 | 0.0208 | 0.0000 | 68.5714 | 68.5714 | 3.6000e-003 | 0.0000 | 68.6471 |
| Total | 0.0430 | 0.2225 | 0.6388 | 1.4900e-003 | 0.0907 | 3.4800e-003 | 0.0942 | 0.0244 | 3.2100e-003 | 0.0276 | 0.0000 | 115.4279 | 115.4279 | 3.9500e-003 | 0.0000 | 115.5108 |

3.5 Paving - 2018

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 | 5.0300e-003 | 0.0515 | 0.0444 | 7.0000e-005 | | 3.0100e-003 | 3.0100e-003 | | 2.7800e-003 | 2.7800e-003 | 0.0000 | 6.0173 | 6.0173 | 1.8400e-003 | 0.0000 | 6.0558 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 5.0300e-003 | 0.0515 | 0.0444 | 7.0000e-005 | | 3.0100e-003 | 3.0100e-003 | | 2.7800e-003 | 2.7800e-003 | 0.0000 | 6.0173 | 6.0173 | 1.8400e-003 | 0.0000 | 6.0558 |

3.5 Paving - 2018

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 | 3.4000e-004 | 3.5400e-003 | 1.0000e-005 | 7.1000e-004 | 1.0000e-005 | 7.2000e-004 | 1.9000e-004 | 1.0000e-005 | 2.0000e-004 | 0.0000 | 0.6445 | 0.6445 | 3.0000e-005 | 0.0000 | 0.6452 |
| Total | 2.3000e-004 | 3.4000e-004 | 3.5400e-003 | 1.0000e-005 | 7.1000e-004 | 1.0000e-005 | 7.2000e-004 | 1.9000e-004 | 1.0000e-005 | 2.0000e-004 | 0.0000 | 0.6445 | 0.6445 | 3.0000e-005 | 0.0000 | 0.6452 |

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 | 5.0300e-003 | 0.0515 | 0.0444 | 7.0000e-005 | | 3.0100e-003 | 3.0100e-003 | | 2.7800e-003 | 2.7800e-003 | 0.0000 | 6.0172 | 6.0172 | 1.8400e-003 | 0.0000 | 6.0558 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 5.0300e-003 | 0.0515 | 0.0444 | 7.0000e-005 | | 3.0100e-003 | 3.0100e-003 | | 2.7800e-003 | 2.7800e-003 | 0.0000 | 6.0172 | 6.0172 | 1.8400e-003 | 0.0000 | 6.0558 |

3.5 Paving - 2018

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 | 3.4000e-004 | 3.5400e-003 | 1.0000e-005 | 7.1000e-004 | 1.0000e-005 | 7.2000e-004 | 1.9000e-004 | 1.0000e-005 | 2.0000e-004 | 0.0000 | 0.6445 | 0.6445 | 3.0000e-005 | 0.0000 | 0.6452 |
| Total | 2.3000e-004 | 3.4000e-004 | 3.5400e-003 | 1.0000e-005 | 7.1000e-004 | 1.0000e-005 | 7.2000e-004 | 1.9000e-004 | 1.0000e-005 | 2.0000e-004 | 0.0000 | 0.6445 | 0.6445 | 3.0000e-005 | 0.0000 | 0.6452 |

3.6 Architectural Coating - 2018

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 | 0.5836 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 8.3600e-003 | 0.0562 | 0.0519 | 8.0000e-005 | | 4.2200e-003 | 4.2200e-003 | | 4.2200e-003 | 4.2200e-003 | 0.0000 | 7.1491 | 7.1491 | 6.8000e-004 | 0.0000 | 7.1634 |
| Total | 0.5919 | 0.0562 | 0.0519 | 8.0000e-005 | | 4.2200e-003 | 4.2200e-003 | | 4.2200e-003 | 4.2200e-003 | 0.0000 | 7.1491 | 7.1491 | 6.8000e-004 | 0.0000 | 7.1634 |

3.6 Architectural Coating - 2018

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 | 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 | 0.0000 |
| Worker | 1.7700e-003 | 2.6400e-003 | 0.0274 | 7.0000e-005 | 5.5200e-003 | 5.0000e-005 | 5.5700e-003 | 1.4700e-003 | 5.0000e-005 | 1.5100e-003 | 0.0000 | 4.9971 | 4.9971 | 2.6000e-004 | 0.0000 | 5.0026 | |
| Total | 1.7700e-003 | 2.6400e-003 | 0.0274 | 7.0000e-005 | 5.5200e-003 | 5.0000e-005 | 5.5700e-003 | 1.4700e-003 | 5.0000e-005 | 1.5100e-003 | 0.0000 | 4.9971 | 4.9971 | 2.6000e-004 | 0.0000 | 5.0026 | |

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 | 0.5836 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 8.3600e-003 | 0.0562 | 0.0519 | 8.0000e-005 | | 4.2200e-003 | 4.2200e-003 | | 4.2200e-003 | 4.2200e-003 | 0.0000 | 7.1491 | 7.1491 | 6.8000e-004 | 0.0000 | 7.1634 |
| Total | 0.5919 | 0.0562 | 0.0519 | 8.0000e-005 | | 4.2200e-003 | 4.2200e-003 | | 4.2200e-003 | 4.2200e-003 | 0.0000 | 7.1491 | 7.1491 | 6.8000e-004 | 0.0000 | 7.1634 |

3.6 Architectural Coating - 2018

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 | 1.7700e-003 | 2.6400e-003 | 0.0274 | 7.0000e-005 | 5.5200e-003 | 5.0000e-005 | 5.5700e-003 | 1.4700e-003 | 5.0000e-005 | 1.5100e-003 | 0.0000 | 4.9971 | 4.9971 | 2.6000e-004 | 0.0000 | 5.0026 |
| Total | 1.7700e-003 | 2.6400e-003 | 0.0274 | 7.0000e-005 | 5.5200e-003 | 5.0000e-005 | 5.5700e-003 | 1.4700e-003 | 5.0000e-005 | 1.5100e-003 | 0.0000 | 4.9971 | 4.9971 | 2.6000e-004 | 0.0000 | 5.0026 |

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 | 0.7185 | 1.8400 | 7.2962 | 0.0185 | 1.2159 | 0.0268 | 1.2427 | 0.3257 | 0.0247 | 0.3504 | 0.0000 | 1,350.1815 | 1,350.1815 | 0.0524 | 0.0000 | 1,351.2811 |
| Unmitigated | 0.7185 | 1.8400 | 7.2962 | 0.0185 | 1.2159 | 0.0268 | 1.2427 | 0.3257 | 0.0247 | 0.3504 | 0.0000 | 1,350.1815 | 1,350.1815 | 0.0524 | 0.0000 | 1,351.2811 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------------------|-------------------------|-----------------|---------------|------------------|------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Mid Rise | 226.10 | 243.44 | 206.38 | 771,456 | 771,456 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | | |
| General Office Building | 330.90 | 71.10 | 29.40 | 807,666 | 807,666 |
| High Turnover (Sit Down Restaurant) | 358.56 | 446.60 | 371.79 | 508,376 | 508,376 |
| Strip Mall | 642.64 | 609.58 | 296.24 | 1,119,545 | 1,119,545 |
| Total | 1,558.20 | 1,370.72 | 903.80 | 3,207,044 | 3,207,044 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|--------------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Apartments Mid Rise | 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 |
| General Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| High Turnover (Sit Down) | 16.60 | 8.40 | 6.90 | 8.50 | 72.50 | 19.00 | 37 | 20 | 43 |
| Strip Mall | 16.60 | 8.40 | 6.90 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |

| LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0.530902 | 0.057841 | 0.178699 | 0.124790 | 0.039063 | 0.006298 | 0.016951 | 0.033908 | 0.002496 | 0.003149 | 0.003689 | 0.000536 | 0.001678 |

5.0 Energy Detail

4.4 Fleet Mix

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 | 496.2667 | 496.2667 | 0.0228 | 4.7200e-003 | 498.2089 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 496.2667 | 496.2667 | 0.0228 | 4.7200e-003 | 498.2089 |
| NaturalGas Mitigated | 6.6900e-003 | 0.0602 | 0.0461 | 3.7000e-004 | | 4.6300e-003 | 4.6300e-003 | | 4.6300e-003 | 4.6300e-003 | 0.0000 | 66.2518 | 66.2518 | 1.2700e-003 | 1.2100e-003 | 66.6550 |
| NaturalGas Unmitigated | 6.6900e-003 | 0.0602 | 0.0461 | 3.7000e-004 | | 4.6300e-003 | 4.6300e-003 | | 4.6300e-003 | 4.6300e-003 | 0.0000 | 66.2518 | 66.2518 | 1.2700e-003 | 1.2100e-003 | 66.6550 |

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 Office Building | 327900 | 1.7700e-003 | 0.0161 | 0.0135 | 1.0000e-004 | | 1.2200e-003 | 1.2200e-003 | | 1.2200e-003 | 1.2200e-003 | 0.0000 | 17.4980 | 17.4980 | 3.4000e-004 | 3.2000e-004 | 17.6045 |
| High Turnover (Sit Down Restaurant) | 657088 | 3.5400e-003 | 0.0322 | 0.0271 | 1.9000e-004 | | 2.4500e-003 | 2.4500e-003 | | 2.4500e-003 | 2.4500e-003 | 0.0000 | 35.0647 | 35.0647 | 6.7000e-004 | 6.4000e-004 | 35.2781 |
| Strip Mall | 24650 | 1.3000e-004 | 1.2100e-003 | 1.0200e-003 | 1.0000e-005 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | 0.0000 | 1.3154 | 1.3154 | 3.0000e-005 | 2.0000e-005 | 1.3234 |
| Apartments Mid Rise | 231873 | 1.2500e-003 | 0.0107 | 4.5500e-003 | 7.0000e-005 | | 8.6000e-004 | 8.6000e-004 | | 8.6000e-004 | 8.6000e-004 | 0.0000 | 12.3736 | 12.3736 | 2.4000e-004 | 2.3000e-004 | 12.4489 |
| 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 | | 6.6900e-003 | 0.0602 | 0.0461 | 3.7000e-004 | | 4.6200e-003 | 4.6200e-003 | | 4.6200e-003 | 4.6200e-003 | 0.0000 | 66.2518 | 66.2518 | 1.2800e-003 | 1.2100e-003 | 66.6550 |

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 Office Building | 327900 | 1.7700e-003 | 0.0161 | 0.0135 | 1.0000e-004 | | 1.2200e-003 | 1.2200e-003 | | 1.2200e-003 | 1.2200e-003 | 0.0000 | 17.4980 | 17.4980 | 3.4000e-004 | 3.2000e-004 | 17.6045 |
| High Turnover (Sit Down Restaurant) | 657088 | 3.5400e-003 | 0.0322 | 0.0271 | 1.9000e-004 | | 2.4500e-003 | 2.4500e-003 | | 2.4500e-003 | 2.4500e-003 | 0.0000 | 35.0647 | 35.0647 | 6.7000e-004 | 6.4000e-004 | 35.2781 |
| Strip Mall | 24650 | 1.3000e-004 | 1.2100e-003 | 1.0200e-003 | 1.0000e-005 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | 0.0000 | 1.3154 | 1.3154 | 3.0000e-005 | 2.0000e-005 | 1.3234 |
| Apartments Mid Rise | 231873 | 1.2500e-003 | 0.0107 | 4.5500e-003 | 7.0000e-005 | | 8.6000e-004 | 8.6000e-004 | | 8.6000e-004 | 8.6000e-004 | 0.0000 | 12.3736 | 12.3736 | 2.4000e-004 | 2.3000e-004 | 12.4489 |
| 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 | | 6.6900e-003 | 0.0602 | 0.0461 | 3.7000e-004 | | 4.6200e-003 | 4.6200e-003 | | 4.6200e-003 | 4.6200e-003 | 0.0000 | 66.2518 | 66.2518 | 1.2800e-003 | 1.2100e-003 | 66.6550 |

5.3 Energy by Land Use - Electricity

Unmitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments Mid Rise | 118363 | 33.8716 | 1.5600e-003 | 3.2000e-004 | 34.0042 |
| Enclosed Parking with Elevator | 827672 | 236.8523 | 0.0109 | 2.2500e-003 | 237.7793 |
| General Office Building | 435900 | 124.7402 | 5.7300e-003 | 1.1900e-003 | 125.2283 |
| High Turnover (Sit Down Restaurant) | 132286 | 37.8559 | 1.7400e-003 | 3.6000e-004 | 38.0041 |
| Strip Mall | 219965 | 62.9467 | 2.8900e-003 | 6.0000e-004 | 63.1930 |
| Total | | 496.2667 | 0.0228 | 4.7200e-003 | 498.2089 |

5.3 Energy by Land Use - Electricity

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments Mid Rise | 118363 | 33.8716 | 1.5600e-003 | 3.2000e-004 | 34.0042 |
| Enclosed Parking with Elevator | 827672 | 236.8523 | 0.0109 | 2.2500e-003 | 237.7793 |
| General Office Building | 435900 | 124.7402 | 5.7300e-003 | 1.1900e-003 | 125.2283 |
| High Turnover (Sit Down Restaurant) | 132286 | 37.8559 | 1.7400e-003 | 3.6000e-004 | 38.0041 |
| Strip Mall | 219965 | 62.9467 | 2.8900e-003 | 6.0000e-004 | 63.1930 |
| Total | | 496.2667 | 0.0228 | 4.7200e-003 | 498.2089 |

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 | 0.9592 | 4.1200e-003 | 0.3569 | 2.0000e-005 | | 1.9500e-003 | 1.9500e-003 | | 1.9500e-003 | 1.9500e-003 | 0.0000 | 0.5815 | 0.5815 | 5.9000e-004 | 0.0000 | 0.5939 |
| Unmitigated | 0.9592 | 4.1200e-003 | 0.3569 | 2.0000e-005 | | 1.9500e-003 | 1.9500e-003 | | 1.9500e-003 | 1.9500e-003 | 0.0000 | 0.5815 | 0.5815 | 5.9000e-004 | 0.0000 | 0.5939 |

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 | 0.2104 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.7376 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 0.0112 | 4.1200e-003 | 0.3569 | 2.0000e-005 | | 1.9500e-003 | 1.9500e-003 | | 1.9500e-003 | 1.9500e-003 | 0.0000 | 0.5815 | 0.5815 | 5.9000e-004 | 0.0000 | 0.5939 |
| Total | 0.9592 | 4.1200e-003 | 0.3569 | 2.0000e-005 | | 1.9500e-003 | 1.9500e-003 | | 1.9500e-003 | 1.9500e-003 | 0.0000 | 0.5815 | 0.5815 | 5.9000e-004 | 0.0000 | 0.5939 |

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 | 0.2104 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.7376 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 0.0112 | 4.1200e-003 | 0.3569 | 2.0000e-005 | | 1.9500e-003 | 1.9500e-003 | | 1.9500e-003 | 1.9500e-003 | 0.0000 | 0.5815 | 0.5815 | 5.9000e-004 | 0.0000 | 0.5939 |
| Total | 0.9592 | 4.1200e-003 | 0.3569 | 2.0000e-005 | | 1.9500e-003 | 1.9500e-003 | | 1.9500e-003 | 1.9500e-003 | 0.0000 | 0.5815 | 0.5815 | 5.9000e-004 | 0.0000 | 0.5939 |

7.0 Water Detail

7.1 Mitigation Measures Water

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|-------------|---------|
| Category | MT/yr | | | |
| Mitigated | 55.4174 | 0.3112 | 7.7800e-003 | 64.3634 |
| Unmitigated | 55.4174 | 0.3112 | 7.7900e-003 | 64.3682 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------------|----------------|---------------|--------------------|----------------|
| Land Use | Mgal | MT/yr | | | |
| Apartments Mid Rise | 2.21524 / 1.39656 | 13.3973 | 0.0728 | 1.8300e-003 | 15.4912 |
| Enclosed Parking with Elevator | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 5.33201 / 3.26801 | 31.9497 | 0.1751 | 4.3900e-003 | 36.9885 |
| High Turnover (Sit Down Restaurant) | 0.855965 / 0.0546361 | 3.6347 | 0.0281 | 6.9000e-004 | 4.4378 |
| Strip Mall | 1.07405 / 0.65829 | 6.4358 | 0.0353 | 8.8000e-004 | 7.4508 |
| Total | | 55.4174 | 0.3112 | 7.7900e-003 | 64.3682 |

7.2 Water by Land Use

Mitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------------|----------------|---------------|--------------------|----------------|
| Land Use | Mgal | MT/yr | | | |
| Apartments Mid Rise | 2.21524 / 1.39656 | 13.3973 | 0.0728 | 1.8200e-003 | 15.4901 |
| Enclosed Parking with Elevator | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 5.33201 / 3.26801 | 31.9497 | 0.1751 | 4.3800e-003 | 36.9858 |
| High Turnover (Sit Down Restaurant) | 0.855965 / 0.0546361 | 3.6347 | 0.0280 | 6.9000e-004 | 4.4374 |
| Strip Mall | 1.07405 / 0.65829 | 6.4358 | 0.0353 | 8.8000e-004 | 7.4502 |
| Total | | 55.4174 | 0.3112 | 7.7700e-003 | 64.3634 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|---------|
| | MT/yr | | | |
| Mitigated | 18.7422 | 1.1076 | 0.0000 | 42.0024 |
| Unmitigated | 18.7422 | 1.1076 | 0.0000 | 42.0024 |

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use | tons | MT/yr | | | |
| Apartments Mid Rise | 15.64 | 3.1748 | 0.1876 | 0.0000 | 7.1149 |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 27.9 | 5.6635 | 0.3347 | 0.0000 | 12.6922 |
| High Turnover (Sit Down Restaurant) | 33.56 | 6.8124 | 0.4026 | 0.0000 | 15.2670 |
| Strip Mall | 15.23 | 3.0916 | 0.1827 | 0.0000 | 6.9284 |
| Total | | 18.7422 | 1.1076 | 0.0000 | 42.0024 |

8.2 Waste by Land Use

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use | tons | MT/yr | | | |
| Apartments Mid Rise | 15.64 | 3.1748 | 0.1876 | 0.0000 | 7.1149 |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 27.9 | 5.6635 | 0.3347 | 0.0000 | 12.6922 |
| High Turnover (Sit Down Restaurant) | 33.56 | 6.8124 | 0.4026 | 0.0000 | 15.2670 |
| Strip Mall | 15.23 | 3.0916 | 0.1827 | 0.0000 | 6.9284 |
| Total | | 18.7422 | 1.1076 | 0.0000 | 42.0024 |

9.0 Operational Offroad

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

10.0 Vegetation

Greenhouse Gas Emission Worksheet
N2O Mobile Emissions

8555 Santa Monica Blvd - Alternative 3

From CalEEMod Vehicle Fleet Mix Output:

Annual VMT: 3,207,044

| Vehicle Type | Percent Type | CH4 Emission Factor (g/mile)* | CH4 Emission (g/mile)** | N2O Emission Factor (g/mile)* | N2O Emission (g/mile)** |
|-------------------------------------|---------------|-------------------------------|-------------------------|-------------------------------|-------------------------|
| Light Auto | 53.1% | 0.04 | 0.0212361 | 0.04 | 0.021236 |
| Light Truck < 3750 lbs | 5.8% | 0.05 | 0.0028921 | 0.06 | 0.00347 |
| Light Truck 3751-5750 lbs | 17.9% | 0.05 | 0.008935 | 0.06 | 0.010722 |
| Med Truck 5751-8500 lbs | 12.5% | 0.12 | 0.0149748 | 0.2 | 0.024958 |
| Lite-Heavy Truck 8501-10,000 lbs | 3.9% | 0.12 | 0.0046876 | 0.2 | 0.007813 |
| Lite-Heavy Truck 10,001-14,000 lbs | 0.6% | 0.09 | 0.0005668 | 0.125 | 0.000787 |
| Med-Heavy Truck 14,001-33,000 lbs | 1.7% | 0.06 | 0.0010171 | 0.05 | 0.000848 |
| Heavy-Heavy Truck 33,001-60,000 lbs | 3.4% | 0.06 | 0.0020345 | 0.05 | 0.001695 |
| Other Bus | 0.2% | 0.06 | 0.0001498 | 0.05 | 0.000125 |
| Urban Bus | 0.3% | 0.06 | 0.0001889 | 0.05 | 0.000157 |
| Motorcycle | 0.4% | 0.09 | 0.000332 | 0.01 | 3.69E-05 |
| School Bus | 0.1% | 0.06 | 3.216E-05 | 0.05 | 2.68E-05 |
| Motor Home | 0.2% | 0.09 | 0.000151 | 0.125 | 0.00021 |
| Total | 100.0% | | 0.0571977 | | 0.072085 |

Total Emissions (metric tons) =
Emission Factor by Vehicle Mix (g/mi) x Annual VMT(mi) x 0.000001 metric tons/g

Conversion to Carbon Dioxide Equivalency (CO2e) Units based on Global Warming Potential (GWP)

CH4 21 GWP
 N2O 310 GWP
 1 ton (short, US) = 0.90718474 metric ton

Annual Mobile Emissions:

| | Total Emissions | Total CO2e units |
|-----------------------|------------------------|-------------------------------|
| N2O Emissions: | 0.2312 metric tons N2O | 71.67 metric tons CO2e |
| Project Total: | | 71.67 metric tons CO2e |

References

* from Table C.4: Methane and Nitrous Oxide Emission Factors for Mobile Sources by Vehicle and Fuel Type (g/mile).
 in California Climate Action Registry General Reporting Protocol, Reporting Entity-Wide Greenhouse Gas Emissions, Version 3.1, January 2009.
 Assume Model year 2000-present, gasoline fueled.
 ** Source: California Climate Action Registry General Reporting Protocol, Reporting Entity-Wide Greenhouse Gas Emissions, Version 3.1, January 2009.
 *** From URBEMIS 2007 results for mobile sources

8555 Santa Monica Blvd - Alternative 4
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|--------|---------------|-------------|--------------------|------------|
| Enclosed Parking with Elevator | 259.00 | Space | 0.00 | 103,600.00 | 0 |
| High Turnover (Sit Down Restaurant) | 14.82 | 1000sqft | 0.00 | 14,820.00 | 0 |
| Apartments Mid Rise | 14.00 | Dwelling Unit | 0.00 | 14,000.00 | 40 |
| Strip Mall | 3.68 | 1000sqft | 0.00 | 3,678.00 | 0 |
| Hotel | 78.00 | Room | 1.26 | 113,256.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33 |
| Climate Zone | 11 | | | Operational Year | 2019 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MW hr) | 630.89 | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 1.26 ac site

Construction Phase - 2 mo demo, 3 mo excavation, 14 mo construction, 3 mo paving and coating

Demolition - 31116 sf of existing res. and com. uses on-site

Grading -

Architectural Coating - per green building checklist - providing no-VOC paints (≤ 5 g/L) on interior applications

Vehicle Trips - Rates per traffic study (Fehr & Peers, 2016)

Woodstoves - no hearths

Area Coating - no-VOC interior paints per green building checklist

Construction Off-road Equipment Mitigation -

| Table Name | Column Name | Default Value | New Value |
|---------------------------|----------------------------|---------------|-----------|
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 5.00 |
| tblArchitecturalCoating | EF_Residential_Interior | 50.00 | 5.00 |
| tblConstructionPhase | NumDays | 10.00 | 56.00 |
| tblConstructionPhase | NumDays | 200.00 | 304.00 |
| tblConstructionPhase | NumDays | 20.00 | 22.00 |
| tblConstructionPhase | NumDays | 4.00 | 86.00 |
| tblFireplaces | FireplaceDayYear | 25.00 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 1,019.20 | 0.00 |
| tblGrading | MaterialExported | 0.00 | 49,800.00 |
| tblLandUse | LotAcreage | 2.33 | 0.00 |
| tblLandUse | LotAcreage | 0.34 | 0.00 |
| tblLandUse | LotAcreage | 0.37 | 0.00 |
| tblLandUse | LotAcreage | 0.08 | 0.00 |
| tblLandUse | LotAcreage | 2.60 | 1.26 |
| tblProjectCharacteristics | OperationalYear | 2014 | 2019 |
| tblWoodstoves | WoodstoveDayYear | 25.00 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 999.60 | 0.00 |

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 1.1841 | 1.7200e-003 | 0.1497 | 1.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | 0.0000 | 0.2447 | 0.2447 | 2.6000e-004 | 0.0000 | 0.2500 |
| Energy | 0.0345 | 0.3129 | 0.2610 | 1.8800e-003 | | 0.0238 | 0.0238 | | 0.0238 | 0.0238 | 0.0000 | 1,045.0851 | 1,045.0851 | 0.0389 | 0.0130 | 1,049.9157 |
| Mobile | 1.3175 | 2.8900 | 12.0548 | 0.0276 | 1.7945 | 0.0406 | 1.8351 | 0.4807 | 0.0374 | 0.5181 | 0.0000 | 2,017.0171 | 2,017.0171 | 0.0800 | 0.0000 | 2,018.6969 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 46.5580 | 0.0000 | 46.5580 | 2.7515 | 0.0000 | 104.3395 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 2.4307 | 32.5202 | 34.9509 | 0.2512 | 6.2000e-003 | 42.1484 |
| Total | 2.5361 | 3.2046 | 12.4655 | 0.0295 | 1.7945 | 0.0652 | 1.8597 | 0.4807 | 0.0620 | 0.5427 | 48.9887 | 3,094.8671 | 3,143.8558 | 3.1218 | 0.0192 | 3,215.3505 |

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 | 1.1841 | 1.7200e-003 | 0.1497 | 1.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | 0.0000 | 0.2447 | 0.2447 | 2.6000e-004 | 0.0000 | 0.2500 |
| Energy | 0.0345 | 0.3129 | 0.2610 | 1.8800e-003 | | 0.0238 | 0.0238 | | 0.0238 | 0.0238 | 0.0000 | 1,045.0851 | 1,045.0851 | 0.0389 | 0.0130 | 1,049.9157 |
| Mobile | 1.3175 | 2.8900 | 12.0548 | 0.0276 | 1.7945 | 0.0406 | 1.8351 | 0.4807 | 0.0374 | 0.5181 | 0.0000 | 2,017.0171 | 2,017.0171 | 0.0800 | 0.0000 | 2,018.6969 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 46.5580 | 0.0000 | 46.5580 | 2.7515 | 0.0000 | 104.3395 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 2.4307 | 32.5202 | 34.9509 | 0.2511 | 6.1900e-003 | 42.1446 |
| Total | 2.5361 | 3.2046 | 12.4655 | 0.0295 | 1.7945 | 0.0652 | 1.8597 | 0.4807 | 0.0620 | 0.5427 | 48.9887 | 3,094.8671 | 3,143.8558 | 3.1218 | 0.0191 | 3,215.3467 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 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 | 1/1/2017 | 1/31/2017 | 5 | 22 | |
| 2 | Grading | Grading | 2/1/2017 | 5/31/2017 | 5 | 86 | |
| 3 | Building Construction | Building Construction | 6/1/2017 | 7/31/2018 | 5 | 304 | |
| 4 | Paving | Paving | 8/1/2018 | 8/14/2018 | 5 | 10 | |
| 5 | Architectural Coating | Architectural Coating | 8/15/2018 | 10/31/2018 | 5 | 56 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 32.25

Acres of Paving: 0

Residential Indoor: 28,350; Residential Outdoor: 9,450; Non-Residential Indoor: 353,031; Non-Residential Outdoor: 117,677 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Demolition | Rubber Tired Dozers | 1 | 8.00 | 255 | 0.40 |
| Demolition | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |
| Grading | Graders | 1 | 6.00 | 174 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 6.00 | 255 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 1 | 7.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 6.00 | 226 | 0.29 |
| Building Construction | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 1 | 6.00 | 97 | 0.37 |
| Building Construction | Welders | 3 | 8.00 | 46 | 0.45 |
| Paving | Cement and Mortar Mixers | 1 | 6.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 6.00 | 125 | 0.42 |
| Paving | Paving Equipment | 1 | 8.00 | 130 | 0.36 |
| Paving | Rollers | 1 | 7.00 | 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 |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 5 | 13.00 | 0.00 | 142.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 3 | 8.00 | 0.00 | 6,225.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 7 | 109.00 | 40.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 5 | 13.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 22.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2017

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 | | | | | 0.0153 | 0.0000 | 0.0153 | 2.3200e-003 | 0.0000 | 2.3200e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0299 | 0.2924 | 0.2296 | 2.7000e-004 | | 0.0177 | 0.0177 | | 0.0165 | 0.0165 | 0.0000 | 24.5232 | 24.5232 | 6.2200e-003 | 0.0000 | 24.6538 |
| Total | 0.0299 | 0.2924 | 0.2296 | 2.7000e-004 | 0.0153 | 0.0177 | 0.0330 | 2.3200e-003 | 0.0165 | 0.0188 | 0.0000 | 24.5232 | 24.5232 | 6.2200e-003 | 0.0000 | 24.6538 |

3.2 Demolition - 2017

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 | 1.2300e-003 | 0.0193 | 0.0153 | 5.0000e-005 | 1.2200e-003 | 2.7000e-004 | 1.4800e-003 | 3.3000e-004 | 2.5000e-004 | 5.8000e-004 | 0.0000 | 4.7646 | 4.7646 | 4.0000e-005 | 0.0000 | 4.7654 |
| 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 | 5.6000e-004 | 8.3000e-004 | 8.5900e-003 | 2.0000e-005 | 1.5700e-003 | 1.0000e-005 | 1.5800e-003 | 4.2000e-004 | 1.0000e-005 | 4.3000e-004 | 0.0000 | 1.4718 | 1.4718 | 8.0000e-005 | 0.0000 | 1.4735 |
| Total | 1.7900e-003 | 0.0201 | 0.0239 | 7.0000e-005 | 2.7900e-003 | 2.8000e-004 | 3.0600e-003 | 7.5000e-004 | 2.6000e-004 | 1.0100e-003 | 0.0000 | 6.2364 | 6.2364 | 1.2000e-004 | 0.0000 | 6.2388 |

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 | | | | | 6.8900e-003 | 0.0000 | 6.8900e-003 | 1.0400e-003 | 0.0000 | 1.0400e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0299 | 0.2924 | 0.2296 | 2.7000e-004 | | 0.0177 | 0.0177 | | 0.0165 | 0.0165 | 0.0000 | 24.5231 | 24.5231 | 6.2200e-003 | 0.0000 | 24.6538 |
| Total | 0.0299 | 0.2924 | 0.2296 | 2.7000e-004 | 6.8900e-003 | 0.0177 | 0.0246 | 1.0400e-003 | 0.0165 | 0.0176 | 0.0000 | 24.5231 | 24.5231 | 6.2200e-003 | 0.0000 | 24.6538 |

3.2 Demolition - 2017

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 | 1.2300e-003 | 0.0193 | 0.0153 | 5.0000e-005 | 1.2200e-003 | 2.7000e-004 | 1.4800e-003 | 3.3000e-004 | 2.5000e-004 | 5.8000e-004 | 0.0000 | 4.7646 | 4.7646 | 4.0000e-005 | 0.0000 | 4.7654 |
| 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 | 5.6000e-004 | 8.3000e-004 | 8.5900e-003 | 2.0000e-005 | 1.5700e-003 | 1.0000e-005 | 1.5800e-003 | 4.2000e-004 | 1.0000e-005 | 4.3000e-004 | 0.0000 | 1.4718 | 1.4718 | 8.0000e-005 | 0.0000 | 1.4735 |
| Total | 1.7900e-003 | 0.0201 | 0.0239 | 7.0000e-005 | 2.7900e-003 | 2.8000e-004 | 3.0600e-003 | 7.5000e-004 | 2.6000e-004 | 1.0100e-003 | 0.0000 | 6.2364 | 6.2364 | 1.2000e-004 | 0.0000 | 6.2388 |

3.3 Grading - 2017

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 | | | | | 0.2141 | 0.0000 | 0.2141 | 0.1090 | 0.0000 | 0.1090 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0810 | 0.8509 | 0.5667 | 6.0000e-004 | | 0.0458 | 0.0458 | | 0.0422 | 0.0422 | 0.0000 | 56.1413 | 56.1413 | 0.0172 | 0.0000 | 56.5025 |
| Total | 0.0810 | 0.8509 | 0.5667 | 6.0000e-004 | 0.2141 | 0.0458 | 0.2600 | 0.1090 | 0.0422 | 0.1512 | 0.0000 | 56.1413 | 56.1413 | 0.0172 | 0.0000 | 56.5025 |

3.3 Grading - 2017**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 | 0.0537 | 0.8443 | 0.6711 | 2.3200e-003 | 0.0533 | 0.0118 | 0.0651 | 0.0146 | 0.0109 | 0.0255 | 0.0000 | 208.8716 | 208.8716 | 1.5500e-003 | 0.0000 | 208.9042 |
| 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 | 1.3500e-003 | 1.9900e-003 | 0.0207 | 5.0000e-005 | 3.7700e-003 | 3.0000e-005 | 3.8000e-003 | 1.0000e-003 | 3.0000e-005 | 1.0300e-003 | 0.0000 | 3.5405 | 3.5405 | 1.9000e-004 | 0.0000 | 3.5445 |
| Total | 0.0551 | 0.8462 | 0.6918 | 2.3700e-003 | 0.0571 | 0.0118 | 0.0689 | 0.0156 | 0.0109 | 0.0265 | 0.0000 | 212.4121 | 212.4121 | 1.7400e-003 | 0.0000 | 212.4487 |

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 | | | | | 0.0964 | 0.0000 | 0.0964 | 0.0491 | 0.0000 | 0.0491 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0810 | 0.8509 | 0.5667 | 6.0000e-004 | | 0.0458 | 0.0458 | | 0.0422 | 0.0422 | 0.0000 | 56.1412 | 56.1412 | 0.0172 | 0.0000 | 56.5024 |
| Total | 0.0810 | 0.8509 | 0.5667 | 6.0000e-004 | 0.0964 | 0.0458 | 0.1422 | 0.0491 | 0.0422 | 0.0912 | 0.0000 | 56.1412 | 56.1412 | 0.0172 | 0.0000 | 56.5024 |

3.3 Grading - 2017

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 | 0.0537 | 0.8443 | 0.6711 | 2.3200e-003 | 0.0533 | 0.0118 | 0.0651 | 0.0146 | 0.0109 | 0.0255 | 0.0000 | 208.8716 | 208.8716 | 1.5500e-003 | 0.0000 | 208.9042 |
| 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 | 1.3500e-003 | 1.9900e-003 | 0.0207 | 5.0000e-005 | 3.7700e-003 | 3.0000e-005 | 3.8000e-003 | 1.0000e-003 | 3.0000e-005 | 1.0300e-003 | 0.0000 | 3.5405 | 3.5405 | 1.9000e-004 | 0.0000 | 3.5445 |
| Total | 0.0551 | 0.8462 | 0.6918 | 2.3700e-003 | 0.0571 | 0.0118 | 0.0689 | 0.0156 | 0.0109 | 0.0265 | 0.0000 | 212.4121 | 212.4121 | 1.7400e-003 | 0.0000 | 212.4487 |

3.4 Building Construction - 2017

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 | 0.2246 | 1.4523 | 1.0876 | 1.6700e-003 | | 0.0932 | 0.0932 | | 0.0899 | 0.0899 | 0.0000 | 140.2560 | 140.2560 | 0.0294 | 0.0000 | 140.8740 |
| Total | 0.2246 | 1.4523 | 1.0876 | 1.6700e-003 | | 0.0932 | 0.0932 | | 0.0899 | 0.0899 | 0.0000 | 140.2560 | 140.2560 | 0.0294 | 0.0000 | 140.8740 |

3.4 Building Construction - 2017

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 | 0.0249 | 0.2534 | 0.3419 | 6.7000e-004 | 0.0187 | 3.7200e-003 | 0.0224 | 5.3200e-003 | 3.4200e-003 | 8.7400e-003 | 0.0000 | 59.5546 | 59.5546 | 4.4000e-004 | 0.0000 | 59.5638 |
| Worker | 0.0324 | 0.0478 | 0.4977 | 1.1500e-003 | 0.0908 | 8.4000e-004 | 0.0916 | 0.0241 | 7.7000e-004 | 0.0249 | 0.0000 | 85.2596 | 85.2596 | 4.6500e-003 | 0.0000 | 85.3572 |
| Total | 0.0573 | 0.3012 | 0.8396 | 1.8200e-003 | 0.1094 | 4.5600e-003 | 0.1140 | 0.0294 | 4.1900e-003 | 0.0336 | 0.0000 | 144.8143 | 144.8143 | 5.0900e-003 | 0.0000 | 144.9210 |

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 | 0.2246 | 1.4523 | 1.0876 | 1.6700e-003 | | 0.0932 | 0.0932 | | 0.0899 | 0.0899 | 0.0000 | 140.2558 | 140.2558 | 0.0294 | 0.0000 | 140.8738 |
| Total | 0.2246 | 1.4523 | 1.0876 | 1.6700e-003 | | 0.0932 | 0.0932 | | 0.0899 | 0.0899 | 0.0000 | 140.2558 | 140.2558 | 0.0294 | 0.0000 | 140.8738 |

3.4 Building Construction - 2017**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 | 0.0249 | 0.2534 | 0.3419 | 6.7000e-004 | 0.0187 | 3.7200e-003 | 0.0224 | 5.3200e-003 | 3.4200e-003 | 8.7400e-003 | 0.0000 | 59.5546 | 59.5546 | 4.4000e-004 | 0.0000 | 59.5638 |
| Worker | 0.0324 | 0.0478 | 0.4977 | 1.1500e-003 | 0.0908 | 8.4000e-004 | 0.0916 | 0.0241 | 7.7000e-004 | 0.0249 | 0.0000 | 85.2596 | 85.2596 | 4.6500e-003 | 0.0000 | 85.3572 |
| Total | 0.0573 | 0.3012 | 0.8396 | 1.8200e-003 | 0.1094 | 4.5600e-003 | 0.1140 | 0.0294 | 4.1900e-003 | 0.0336 | 0.0000 | 144.8143 | 144.8143 | 5.0900e-003 | 0.0000 | 144.9210 |

3.4 Building Construction - 2018**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 | 0.1963 | 1.3161 | 1.0515 | 1.6700e-003 | | 0.0801 | 0.0801 | | 0.0773 | 0.0773 | 0.0000 | 139.3685 | 139.3685 | 0.0280 | 0.0000 | 139.9561 |
| Total | 0.1963 | 1.3161 | 1.0515 | 1.6700e-003 | | 0.0801 | 0.0801 | | 0.0773 | 0.0773 | 0.0000 | 139.3685 | 139.3685 | 0.0280 | 0.0000 | 139.9561 |

3.4 Building Construction - 2018

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 | 0.0234 | 0.2329 | 0.3281 | 6.7000e-004 | 0.0187 | 3.5000e-003 | 0.0222 | 5.3200e-003 | 3.2200e-003 | 8.5400e-003 | 0.0000 | 58.5706 | 58.5706 | 4.3000e-004 | 0.0000 | 58.5797 |
| Worker | 0.0291 | 0.0434 | 0.4507 | 1.1500e-003 | 0.0908 | 8.1000e-004 | 0.0916 | 0.0241 | 7.5000e-004 | 0.0249 | 0.0000 | 82.1349 | 82.1349 | 4.3200e-003 | 0.0000 | 82.2256 |
| Total | 0.0525 | 0.2763 | 0.7789 | 1.8200e-003 | 0.1094 | 4.3100e-003 | 0.1138 | 0.0294 | 3.9700e-003 | 0.0334 | 0.0000 | 140.7056 | 140.7056 | 4.7500e-003 | 0.0000 | 140.8053 |

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 | 0.1963 | 1.3161 | 1.0515 | 1.6700e-003 | | 0.0801 | 0.0801 | | 0.0773 | 0.0773 | 0.0000 | 139.3683 | 139.3683 | 0.0280 | 0.0000 | 139.9560 |
| Total | 0.1963 | 1.3161 | 1.0515 | 1.6700e-003 | | 0.0801 | 0.0801 | | 0.0773 | 0.0773 | 0.0000 | 139.3683 | 139.3683 | 0.0280 | 0.0000 | 139.9560 |

3.4 Building Construction - 2018**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 | 0.0234 | 0.2329 | 0.3281 | 6.7000e-004 | 0.0187 | 3.5000e-003 | 0.0222 | 5.3200e-003 | 3.2200e-003 | 8.5400e-003 | 0.0000 | 58.5706 | 58.5706 | 4.3000e-004 | 0.0000 | 58.5797 |
| Worker | 0.0291 | 0.0434 | 0.4507 | 1.1500e-003 | 0.0908 | 8.1000e-004 | 0.0916 | 0.0241 | 7.5000e-004 | 0.0249 | 0.0000 | 82.1349 | 82.1349 | 4.3200e-003 | 0.0000 | 82.2256 |
| Total | 0.0525 | 0.2763 | 0.7789 | 1.8200e-003 | 0.1094 | 4.3100e-003 | 0.1138 | 0.0294 | 3.9700e-003 | 0.0334 | 0.0000 | 140.7056 | 140.7056 | 4.7500e-003 | 0.0000 | 140.8053 |

3.5 Paving - 2018**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 | 5.0300e-003 | 0.0515 | 0.0444 | 7.0000e-005 | | 3.0100e-003 | 3.0100e-003 | | 2.7800e-003 | 2.7800e-003 | 0.0000 | 6.0173 | 6.0173 | 1.8400e-003 | 0.0000 | 6.0558 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 5.0300e-003 | 0.0515 | 0.0444 | 7.0000e-005 | | 3.0100e-003 | 3.0100e-003 | | 2.7800e-003 | 2.7800e-003 | 0.0000 | 6.0173 | 6.0173 | 1.8400e-003 | 0.0000 | 6.0558 |

3.5 Paving - 2018

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 | 3.4000e-004 | 3.5400e-003 | 1.0000e-005 | 7.1000e-004 | 1.0000e-005 | 7.2000e-004 | 1.9000e-004 | 1.0000e-005 | 2.0000e-004 | 0.0000 | 0.6445 | 0.6445 | 3.0000e-005 | 0.0000 | 0.6452 |
| Total | 2.3000e-004 | 3.4000e-004 | 3.5400e-003 | 1.0000e-005 | 7.1000e-004 | 1.0000e-005 | 7.2000e-004 | 1.9000e-004 | 1.0000e-005 | 2.0000e-004 | 0.0000 | 0.6445 | 0.6445 | 3.0000e-005 | 0.0000 | 0.6452 |

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 | 5.0300e-003 | 0.0515 | 0.0444 | 7.0000e-005 | | 3.0100e-003 | 3.0100e-003 | | 2.7800e-003 | 2.7800e-003 | 0.0000 | 6.0172 | 6.0172 | 1.8400e-003 | 0.0000 | 6.0558 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 5.0300e-003 | 0.0515 | 0.0444 | 7.0000e-005 | | 3.0100e-003 | 3.0100e-003 | | 2.7800e-003 | 2.7800e-003 | 0.0000 | 6.0172 | 6.0172 | 1.8400e-003 | 0.0000 | 6.0558 |

3.5 Paving - 2018

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 | 3.4000e-004 | 3.5400e-003 | 1.0000e-005 | 7.1000e-004 | 1.0000e-005 | 7.2000e-004 | 1.9000e-004 | 1.0000e-005 | 2.0000e-004 | 0.0000 | 0.6445 | 0.6445 | 3.0000e-005 | 0.0000 | 0.6452 |
| Total | 2.3000e-004 | 3.4000e-004 | 3.5400e-003 | 1.0000e-005 | 7.1000e-004 | 1.0000e-005 | 7.2000e-004 | 1.9000e-004 | 1.0000e-005 | 2.0000e-004 | 0.0000 | 0.6445 | 0.6445 | 3.0000e-005 | 0.0000 | 0.6452 |

3.6 Architectural Coating - 2018

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 | 0.7479 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 8.3600e-003 | 0.0562 | 0.0519 | 8.0000e-005 | | 4.2200e-003 | 4.2200e-003 | | 4.2200e-003 | 4.2200e-003 | 0.0000 | 7.1491 | 7.1491 | 6.8000e-004 | 0.0000 | 7.1634 |
| Total | 0.7562 | 0.0562 | 0.0519 | 8.0000e-005 | | 4.2200e-003 | 4.2200e-003 | | 4.2200e-003 | 4.2200e-003 | 0.0000 | 7.1491 | 7.1491 | 6.8000e-004 | 0.0000 | 7.1634 |

3.6 Architectural Coating - 2018

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 | 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 | 0.0000 |
| Worker | 2.1600e-003 | 3.2300e-003 | 0.0335 | 9.0000e-005 | 6.7500e-003 | 6.0000e-005 | 6.8100e-003 | 1.7900e-003 | 6.0000e-005 | 1.8500e-003 | 0.0000 | 6.1076 | 6.1076 | 3.2000e-004 | 0.0000 | 6.1143 | |
| Total | 2.1600e-003 | 3.2300e-003 | 0.0335 | 9.0000e-005 | 6.7500e-003 | 6.0000e-005 | 6.8100e-003 | 1.7900e-003 | 6.0000e-005 | 1.8500e-003 | 0.0000 | 6.1076 | 6.1076 | 3.2000e-004 | 0.0000 | 6.1143 | |

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 | 0.7479 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 8.3600e-003 | 0.0562 | 0.0519 | 8.0000e-005 | | 4.2200e-003 | 4.2200e-003 | | 4.2200e-003 | 4.2200e-003 | 0.0000 | 7.1491 | 7.1491 | 6.8000e-004 | 0.0000 | 7.1634 |
| Total | 0.7562 | 0.0562 | 0.0519 | 8.0000e-005 | | 4.2200e-003 | 4.2200e-003 | | 4.2200e-003 | 4.2200e-003 | 0.0000 | 7.1491 | 7.1491 | 6.8000e-004 | 0.0000 | 7.1634 |

3.6 Architectural Coating - 2018

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 | 2.1600e-003 | 3.2300e-003 | 0.0335 | 9.0000e-005 | 6.7500e-003 | 6.0000e-005 | 6.8100e-003 | 1.7900e-003 | 6.0000e-005 | 1.8500e-003 | 0.0000 | 6.1076 | 6.1076 | 3.2000e-004 | 0.0000 | 6.1143 |
| Total | 2.1600e-003 | 3.2300e-003 | 0.0335 | 9.0000e-005 | 6.7500e-003 | 6.0000e-005 | 6.8100e-003 | 1.7900e-003 | 6.0000e-005 | 1.8500e-003 | 0.0000 | 6.1076 | 6.1076 | 3.2000e-004 | 0.0000 | 6.1143 |

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 | 1.3175 | 2.8900 | 12.0548 | 0.0276 | 1.7945 | 0.0406 | 1.8351 | 0.4807 | 0.0374 | 0.5181 | 0.0000 | 2,017.0171 | 2,017.0171 | 0.0800 | 0.0000 | 2,018.6969 |
| Unmitigated | 1.3175 | 2.8900 | 12.0548 | 0.0276 | 1.7945 | 0.0406 | 1.8351 | 0.4807 | 0.0374 | 0.5181 | 0.0000 | 2,017.0171 | 2,017.0171 | 0.0800 | 0.0000 | 2,018.6969 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------------------|-------------------------|-----------------|-----------------|------------------|------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Mid Rise | 92.26 | 100.24 | 84.98 | 315,608 | 315,608 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | | |
| Hotel | 637.26 | 638.82 | 464.10 | 1,462,116 | 1,462,116 |
| High Turnover (Sit Down Restaurant) | 1,884.36 | 2,347.04 | 1,953.87 | 2,671,679 | 2,671,679 |
| Strip Mall | 163.01 | 154.62 | 75.14 | 283,979 | 283,979 |
| Total | 2,776.89 | 3,240.73 | 2,578.09 | 4,733,382 | 4,733,382 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|--------------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Apartments Mid Rise | 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 |
| Hotel | 16.60 | 8.40 | 6.90 | 19.40 | 61.60 | 19.00 | 58 | 38 | 4 |
| High Turnover (Sit Down) | 16.60 | 8.40 | 6.90 | 8.50 | 72.50 | 19.00 | 37 | 20 | 43 |
| Strip Mall | 16.60 | 8.40 | 6.90 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |

| LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0.530902 | 0.057841 | 0.178699 | 0.124790 | 0.039063 | 0.006298 | 0.016951 | 0.033908 | 0.002496 | 0.003149 | 0.003689 | 0.000536 | 0.001678 |

5.0 Energy Detail

4.4 Fleet Mix

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 | 704.1649 | 704.1649 | 0.0324 | 6.7000e-003 | 706.9207 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 704.1649 | 704.1649 | 0.0324 | 6.7000e-003 | 706.9207 |
| NaturalGas Mitigated | 0.0345 | 0.3129 | 0.2610 | 1.8800e-003 | | 0.0238 | 0.0238 | | 0.0238 | 0.0238 | 0.0000 | 340.9202 | 340.9202 | 6.5300e-003 | 6.2500e-003 | 342.9950 |
| NaturalGas Unmitigated | 0.0345 | 0.3129 | 0.2610 | 1.8800e-003 | | 0.0238 | 0.0238 | | 0.0238 | 0.0238 | 0.0000 | 340.9202 | 340.9202 | 6.5300e-003 | 6.2500e-003 | 342.9950 |

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 | | | | | |
| High Turnover (Sit Down Restaurant) | 3.45321e+006 | 0.0186 | 0.1693 | 0.1422 | 1.0200e-003 | | 0.0129 | 0.0129 | | 0.0129 | 0.0129 | 0.0000 | 184.2763 | 184.2763 | 3.5300e-003 | 3.3800e-003 | 185.3978 |
| Hotel | 2.83367e+006 | 0.0153 | 0.1389 | 0.1167 | 8.3000e-004 | | 0.0106 | 0.0106 | | 0.0106 | 0.0106 | 0.0000 | 151.2152 | 151.2152 | 2.9000e-003 | 2.7700e-003 | 152.1354 |
| Strip Mall | 6252.6 | 3.0000e-005 | 3.1000e-004 | 2.6000e-004 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | 0.0000 | 0.3337 | 0.3337 | 1.0000e-005 | 1.0000e-005 | 0.3357 |
| Apartments Mid Rise | 95477.2 | 5.1000e-004 | 4.4000e-003 | 1.8700e-003 | 3.0000e-005 | | 3.6000e-004 | 3.6000e-004 | | 3.6000e-004 | 3.6000e-004 | 0.0000 | 5.0950 | 5.0950 | 1.0000e-004 | 9.0000e-005 | 5.1260 |
| 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 | | 0.0344 | 0.3129 | 0.2610 | 1.8800e-003 | | 0.0238 | 0.0238 | | 0.0238 | 0.0238 | 0.0000 | 340.9202 | 340.9202 | 6.5400e-003 | 6.2500e-003 | 342.9950 |

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 | | | | | |
| Hotel | 2.83367e+006 | 0.0153 | 0.1389 | 0.1167 | 8.3000e-004 | | 0.0106 | 0.0106 | | 0.0106 | 0.0106 | 0.0000 | 151.2152 | 151.2152 | 2.9000e-003 | 2.7700e-003 | 152.1354 |
| Strip Mall | 6252.6 | 3.0000e-005 | 3.1000e-004 | 2.6000e-004 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | 0.0000 | 0.3337 | 0.3337 | 1.0000e-005 | 1.0000e-005 | 0.3357 |
| Apartments Mid Rise | 95477.2 | 5.1000e-004 | 4.4000e-003 | 1.8700e-003 | 3.0000e-005 | | 3.6000e-004 | 3.6000e-004 | | 3.6000e-004 | 3.6000e-004 | 0.0000 | 5.0950 | 5.0950 | 1.0000e-004 | 9.0000e-005 | 5.1260 |
| 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 |
| High Turnover (Sit Down Restaurant) | 3.45321e+006 | 0.0186 | 0.1693 | 0.1422 | 1.0200e-003 | | 0.0129 | 0.0129 | | 0.0129 | 0.0129 | 0.0000 | 184.2763 | 184.2763 | 3.5300e-003 | 3.3800e-003 | 185.3978 |
| Total | | 0.0344 | 0.3129 | 0.2610 | 1.8800e-003 | | 0.0238 | 0.0238 | | 0.0238 | 0.0238 | 0.0000 | 340.9202 | 340.9202 | 6.5400e-003 | 6.2500e-003 | 342.9950 |

5.3 Energy by Land Use - Electricity

Unmitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments Mid Rise | 48737.8 | 13.9471 | 6.4000e-004 | 1.3000e-004 | 14.0017 |
| Enclosed Parking with Elevator | 698264 | 199.8200 | 9.1900e-003 | 1.9000e-003 | 200.6020 |
| High Turnover (Sit Down Restaurant) | 695206 | 198.9450 | 9.1400e-003 | 1.8900e-003 | 199.7236 |
| Hotel | 962676 | 275.4860 | 0.0127 | 2.6200e-003 | 276.5641 |
| Strip Mall | 55795.3 | 15.9668 | 7.3000e-004 | 1.5000e-004 | 16.0292 |
| Total | | 704.1649 | 0.0324 | 6.6900e-003 | 706.9207 |

5.3 Energy by Land Use - Electricity

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments Mid Rise | 48737.8 | 13.9471 | 6.4000e-004 | 1.3000e-004 | 14.0017 |
| Enclosed Parking with Elevator | 698264 | 199.8200 | 9.1900e-003 | 1.9000e-003 | 200.6020 |
| High Turnover (Sit Down Restaurant) | 695206 | 198.9450 | 9.1400e-003 | 1.8900e-003 | 199.7236 |
| Hotel | 962676 | 275.4860 | 0.0127 | 2.6200e-003 | 276.5641 |
| Strip Mall | 55795.3 | 15.9668 | 7.3000e-004 | 1.5000e-004 | 16.0292 |
| Total | | 704.1649 | 0.0324 | 6.6900e-003 | 706.9207 |

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 | 1.1841 | 1.7200e-003 | 0.1497 | 1.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | 0.0000 | 0.2447 | 0.2447 | 2.6000e-004 | 0.0000 | 0.2500 |
| Unmitigated | 1.1841 | 1.7200e-003 | 0.1497 | 1.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | 0.0000 | 0.2447 | 0.2447 | 2.6000e-004 | 0.0000 | 0.2500 |

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 | 0.2782 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.9010 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 4.8800e-003 | 1.7200e-003 | 0.1497 | 1.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | 0.0000 | 0.2447 | 0.2447 | 2.6000e-004 | 0.0000 | 0.2500 |
| Total | 1.1841 | 1.7200e-003 | 0.1497 | 1.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | 0.0000 | 0.2447 | 0.2447 | 2.6000e-004 | 0.0000 | 0.2500 |

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 | 0.2782 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.9010 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 4.8800e-003 | 1.7200e-003 | 0.1497 | 1.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | 0.0000 | 0.2447 | 0.2447 | 2.6000e-004 | 0.0000 | 0.2500 |
| Total | 1.1841 | 1.7200e-003 | 0.1497 | 1.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | 0.0000 | 0.2447 | 0.2447 | 2.6000e-004 | 0.0000 | 0.2500 |

7.0 Water Detail

7.1 Mitigation Measures Water

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|-------------|---------|
| Category | MT/yr | | | |
| Mitigated | 34.9509 | 0.2511 | 6.1900e-003 | 42.1446 |
| Unmitigated | 34.9509 | 0.2512 | 6.2000e-003 | 42.1484 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|---------------------|----------------|---------------|--------------------|----------------|
| Land Use | Mgal | MT/yr | | | |
| Apartments Mid Rise | 0.912156 / 0.575055 | 5.5165 | 0.0300 | 7.5000e-004 | 6.3787 |
| Enclosed Parking with Elevator | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| High Turnover (Sit Down Restaurant) | 4.49837 / 0.28713 | 19.1017 | 0.1474 | 3.6300e-003 | 23.3220 |
| Hotel | 1.97861 / 0.219845 | 8.6993 | 0.0648 | 1.6000e-003 | 10.5568 |
| Strip Mall | 0.272587 / 0.167069 | 1.6334 | 8.9500e-003 | 2.2000e-004 | 1.8910 |
| Total | | 34.9509 | 0.2511 | 6.2000e-003 | 42.1484 |

7.2 Water by Land Use

Mitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|---------------------|----------------|---------------|--------------------|----------------|
| Land Use | Mgal | MT/yr | | | |
| Apartments Mid Rise | 0.912156 / 0.575055 | 5.5165 | 0.0300 | 7.5000e-004 | 6.3783 |
| Enclosed Parking with Elevator | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| High Turnover (Sit Down Restaurant) | 4.49837 / 0.28713 | 19.1017 | 0.1474 | 3.6200e-003 | 23.3197 |
| Hotel | 1.97861 / 0.219845 | 8.6993 | 0.0648 | 1.6000e-003 | 10.5558 |
| Strip Mall | 0.272587 / 0.167069 | 1.6334 | 8.9500e-003 | 2.2000e-004 | 1.8908 |
| Total | | 34.9509 | 0.2511 | 6.1900e-003 | 42.1446 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|----------|
| | MT/yr | | | |
| Mitigated | 46.5580 | 2.7515 | 0.0000 | 104.3395 |
| Unmitigated | 46.5580 | 2.7515 | 0.0000 | 104.3395 |

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------|----------------|---------------|---------------|-----------------|
| Land Use | tons | MT/yr | | | |
| Apartments Mid Rise | 6.44 | 1.3073 | 0.0773 | 0.0000 | 2.9297 |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| High Turnover (Sit Down Restaurant) | 176.36 | 35.7995 | 2.1157 | 0.0000 | 80.2290 |
| Hotel | 42.7 | 8.6677 | 0.5123 | 0.0000 | 19.4249 |
| Strip Mall | 3.86 | 0.7836 | 0.0463 | 0.0000 | 1.7560 |
| Total | | 46.5580 | 2.7515 | 0.0000 | 104.3395 |

8.2 Waste by Land Use

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------|----------------|---------------|---------------|-----------------|
| Land Use | tons | MT/yr | | | |
| Apartments Mid Rise | 6.44 | 1.3073 | 0.0773 | 0.0000 | 2.9297 |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| High Turnover (Sit Down Restaurant) | 176.36 | 35.7995 | 2.1157 | 0.0000 | 80.2290 |
| Hotel | 42.7 | 8.6677 | 0.5123 | 0.0000 | 19.4249 |
| Strip Mall | 3.86 | 0.7836 | 0.0463 | 0.0000 | 1.7560 |
| Total | | 46.5580 | 2.7515 | 0.0000 | 104.3395 |

9.0 Operational Offroad

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

10.0 Vegetation

Greenhouse Gas Emission Worksheet
N2O Mobile Emissions

8555 Santa Monica Blvd - Alternative 4

From CalEEMod Vehicle Fleet Mix Output:

Annual VMT: 4,733,382

| Vehicle Type | Percent Type | CH4 Emission Factor (g/mile)* | CH4 Emission (g/mile)** | N2O Emission Factor (g/mile)* | N2O Emission (g/mile)** |
|-------------------------------------|---------------|-------------------------------|-------------------------|-------------------------------|-------------------------|
| Light Auto | 53.1% | 0.04 | 0.0212361 | 0.04 | 0.021236 |
| Light Truck < 3750 lbs | 5.8% | 0.05 | 0.0028921 | 0.06 | 0.00347 |
| Light Truck 3751-5750 lbs | 17.9% | 0.05 | 0.008935 | 0.06 | 0.010722 |
| Med Truck 5751-8500 lbs | 12.5% | 0.12 | 0.0149748 | 0.2 | 0.024958 |
| Lite-Heavy Truck 8501-10,000 lbs | 3.9% | 0.12 | 0.0046876 | 0.2 | 0.007813 |
| Lite-Heavy Truck 10,001-14,000 lbs | 0.6% | 0.09 | 0.0005668 | 0.125 | 0.000787 |
| Med-Heavy Truck 14,001-33,000 lbs | 1.7% | 0.06 | 0.0010171 | 0.05 | 0.000848 |
| Heavy-Heavy Truck 33,001-60,000 lbs | 3.4% | 0.06 | 0.0020345 | 0.05 | 0.001695 |
| Other Bus | 0.2% | 0.06 | 0.0001498 | 0.05 | 0.000125 |
| Urban Bus | 0.3% | 0.06 | 0.0001889 | 0.05 | 0.000157 |
| Motorcycle | 0.4% | 0.09 | 0.000332 | 0.01 | 3.69E-05 |
| School Bus | 0.1% | 0.06 | 3.216E-05 | 0.05 | 2.68E-05 |
| Motor Home | 0.2% | 0.09 | 0.000151 | 0.125 | 0.00021 |
| Total | 100.0% | | 0.0571977 | | 0.072085 |

Total Emissions (metric tons) =

Emission Factor by Vehicle Mix (g/mi) x Annual VMT(mi) x 0.000001 metric tons/g

Conversion to Carbon Dioxide Equivalency (CO2e) Units based on Global Warming Potential (GWP)

CH4 21 GWP
 N2O 310 GWP
 1 ton (short, US) = 0.90718474 metric ton

Annual Mobile Emissions:

| | Total Emissions | Total CO2e units |
|----------------|---|-------------------------|
| N2O Emissions: | 0.3412 metric tons N2O | 105.77 metric tons CO2e |
| | Project Total: 105.77 metric tons CO2e | |

References

- * from Table C.4: Methane and Nitrous Oxide Emission Factors for Mobile Sources by Vehicle and Fuel Type (g/mile). in California Climate Action Registry General Reporting Protocol, Reporting Entity-Wide Greenhouse Gas Emissions, Version 3.1, January 2009. Assume Model year 2000-present, gasoline fueled.
- ** Source: California Climate Action Registry General Reporting Protocol, Reporting Entity-Wide Greenhouse Gas Emissions, Version 3.1, January 2009.
- *** From URBEMIS 2007 results for mobile sources

8555 Santa Monica Boulevard Mixed-Use Alt. 6 - Los Angeles-South Coast County, Annual

8555 Santa Monica Boulevard Mixed-Use Alt. 6
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|--------|---------------|-------------|--------------------|------------|
| General Office Building | 6.86 | 1000sqft | 0.00 | 6,856.00 | 0 |
| Enclosed Parking with Elevator | 349.00 | Space | 0.00 | 139,600.00 | 0 |
| High Turnover (Sit Down Restaurant) | 4.98 | 1000sqft | 0.00 | 4,980.00 | 0 |
| Apartments Mid Rise | 110.00 | Dwelling Unit | 1.26 | 110,523.00 | 315 |
| Strip Mall | 13.55 | 1000sqft | 0.00 | 13,550.00 | 0 |
| Strip Mall | 3.64 | 1000sqft | 0.00 | 3,643.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|----------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33 |
| Climate Zone | 11 | | | Operational Year | 2019 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MWhr) | 702.44 | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity (lb/MWhr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

8555 Santa Monica Boulevard Mixed-Use Alt. 6 - Los Angeles-South Coast County, Annual

Project Characteristics -

Land Use - Square feet changed per Alt. 6 information. Hair salon modeled as strip mall. Acrerage based on lot size

Construction Phase - Architectural coating changed to overlap with building construction for more realistic scenario. No site prep for project

Demolition - 31116 square feet of existing buildings to be demolished

Architectural Coating - Changed to 50 g/L per SCAQMD Rule 1113

Vehicle Trips - Weighted average for apartments and strip mall. Apartments: 6.5, strip mall: 38.44, office: 11.1, resturant: 127

Woodstoves - Units will not have woodstoves or fireplaces

Area Coating - Changed to 50 per SCAQMD Rule 1113

Construction Off-road Equipment Mitigation - Water area 2 times per day, vehicle speed limit, and stabilize soil per SCAQMD Rule 403

Energy Mitigation - Title 24 exceeds 2016 CalEEMod by 28 percent

| Table Name | Column Name | Default Value | New Value |
|-------------------------|--------------------------------------|---------------|-----------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 100.00 | 50.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 100.00 | 50.00 |
| tblAreaCoating | Area_EF_Nonresidential_Exterior | 100 | 50 |
| tblAreaCoating | Area_EF_Nonresidential_Interior | 100 | 50 |
| tblAreaCoating | Area_EF_Parking | 100 | 50 |
| tblConstDustMitigation | WaterExposedAreaPM10PercentReduction | 55 | 61 |
| tblConstDustMitigation | WaterExposedAreaPM25PercentReduction | 55 | 61 |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 40 | 15 |
| tblConstructionPhase | NumDays | 10.00 | 100.00 |
| tblConstructionPhase | NumDays | 4.00 | 10.00 |
| tblFireplaces | FireplaceDayYear | 25.00 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.00 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 1,019.20 | 0.00 |
| tblFireplaces | NumberGas | 93.50 | 0.00 |
| tblFireplaces | NumberNoFireplace | 11.00 | 0.00 |

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| | | | |
|---------------------------|-------------------------|------------|------------|
| tblFireplaces | NumberWood | 5.50 | 0.00 |
| tblGrading | AcresOfGrading | 3.75 | 1.50 |
| tblLandUse | BuildingSpaceSquareFeet | 6,860.00 | 6,856.00 |
| tblLandUse | BuildingSpaceSquareFeet | 110,000.00 | 110,523.00 |
| tblLandUse | BuildingSpaceSquareFeet | 3,640.00 | 3,643.00 |
| tblLandUse | LandUseSquareFeet | 6,860.00 | 6,856.00 |
| tblLandUse | LandUseSquareFeet | 110,000.00 | 110,523.00 |
| tblLandUse | LandUseSquareFeet | 3,640.00 | 3,643.00 |
| tblLandUse | LotAcreage | 0.16 | 0.00 |
| tblLandUse | LotAcreage | 3.14 | 0.00 |
| tblLandUse | LotAcreage | 0.11 | 0.00 |
| tblLandUse | LotAcreage | 2.89 | 1.26 |
| tblLandUse | LotAcreage | 0.31 | 0.00 |
| tblLandUse | LotAcreage | 0.08 | 0.00 |
| tblProjectCharacteristics | OperationalYear | 2018 | 2019 |
| tblVehicleTrips | ST_TR | 42.04 | 38.44 |
| tblVehicleTrips | WD_TR | 6.65 | 6.50 |
| tblVehicleTrips | WD_TR | 11.03 | 11.10 |
| tblVehicleTrips | WD_TR | 44.32 | 38.44 |
| tblWoodstoves | NumberCatalytic | 5.50 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 5.50 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 25.00 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 999.60 | 0.00 |

2.0 Emissions Summary

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| Quarter | Start Date | End Date | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|-----------|--|--|
| 1 | 6-5-2017 | 9-4-2017 | 0.9399 | 0.9399 |
| 2 | 9-5-2017 | 12-4-2017 | 0.9512 | 0.9512 |
| 3 | 12-5-2017 | 3-4-2018 | 0.8810 | 0.8810 |
| 4 | 3-5-2018 | 6-4-2018 | 0.6275 | 0.6275 |
| 5 | 6-5-2018 | 9-4-2018 | 0.3695 | 0.3695 |
| 6 | 9-5-2018 | 9-30-2018 | 0.0683 | 0.0683 |
| | | Highest | 0.9512 | 0.9512 |

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 | 0.5909 | 0.0133 | 1.1449 | 6.0000e-005 | | 6.2600e-003 | 6.2600e-003 | | 6.2600e-003 | 6.2600e-003 | 0.0000 | 1.8624 | 1.8624 | 1.8400e-003 | 0.0000 | 1.9085 |
| Energy | 0.0134 | 0.1179 | 0.0756 | 7.3000e-004 | | 9.2300e-003 | 9.2300e-003 | | 9.2300e-003 | 9.2300e-003 | 0.0000 | 755.7580 | 755.7580 | 0.0283 | 7.7500e-003 | 758.7744 |
| Mobile | 0.8767 | 4.1198 | 10.3795 | 0.0297 | 1.8352 | 0.0350 | 1.8702 | 0.5006 | 0.0329 | 0.5335 | 0.0000 | 2,734.4848 | 2,734.4848 | 0.1692 | 0.0000 | 2,738.7156 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 27.2597 | 0.0000 | 27.2597 | 1.6110 | 0.0000 | 67.5346 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 3.5441 | 68.0900 | 71.6340 | 0.3668 | 9.1800e-003 | 83.5392 |
| Total | 1.4809 | 4.2509 | 11.5999 | 0.0305 | 1.8352 | 0.0505 | 1.8857 | 0.5006 | 0.0484 | 0.5490 | 30.8037 | 3,560.1952 | 3,590.9989 | 2.1772 | 0.0169 | 3,650.4724 |

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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 | 0.5909 | 0.0133 | 1.1449 | 6.0000e-005 | | 6.2600e-003 | 6.2600e-003 | | 6.2600e-003 | 6.2600e-003 | 0.0000 | 1.8624 | 1.8624 | 1.8400e-003 | 0.0000 | 1.9085 |
| Energy | 0.0119 | 0.1047 | 0.0682 | 6.5000e-004 | | 8.1900e-003 | 8.1900e-003 | | 8.1900e-003 | 8.1900e-003 | 0.0000 | 676.9206 | 676.9206 | 0.0254 | 6.9300e-003 | 679.6197 |
| Mobile | 0.8767 | 4.1198 | 10.3795 | 0.0297 | 1.8352 | 0.0350 | 1.8702 | 0.5006 | 0.0329 | 0.5335 | 0.0000 | 2,734.4848 | 2,734.4848 | 0.1692 | 0.0000 | 2,738.7156 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 27.2597 | 0.0000 | 27.2597 | 1.6110 | 0.0000 | 67.5346 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 3.5441 | 68.0900 | 71.6340 | 0.3668 | 9.1800e-003 | 83.5392 |
| Total | 1.4794 | 4.2377 | 11.5926 | 0.0304 | 1.8352 | 0.0495 | 1.8846 | 0.5006 | 0.0474 | 0.5480 | 30.8037 | 3,481.3578 | 3,512.1615 | 2.1742 | 0.0161 | 3,571.3177 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.10 | 0.31 | 0.06 | 0.26 | 0.00 | 2.06 | 0.06 | 0.00 | 2.15 | 0.19 | 0.00 | 2.21 | 2.20 | 0.13 | 4.84 | 2.17 |

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 | Demolition | Demolition | 6/5/2017 | 6/30/2017 | 5 | 20 | |
| 2 | Grading | Grading | 7/1/2017 | 7/14/2017 | 5 | 10 | |
| 3 | Building Construction | Building Construction | 7/15/2017 | 4/20/2018 | 5 | 200 | |
| 4 | Paving | Paving | 4/21/2018 | 5/4/2018 | 5 | 10 | |
| 5 | Architectural Coating | Architectural Coating | 5/5/2018 | 9/21/2018 | 5 | 100 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 223,809; Residential Outdoor: 74,603; Non-Residential Indoor: 43,544; Non-Residential Outdoor: 14,515; Striped Parking Area: 8,376 (Architectural Coating – sqft)

OffRoad Equipment

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| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Demolition | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Demolition | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |
| Grading | Graders | 1 | 6.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 6.00 | 247 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 1 | 7.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 6.00 | 231 | 0.29 |
| Building Construction | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 1 | 6.00 | 97 | 0.37 |
| Building Construction | Welders | 3 | 8.00 | 46 | 0.45 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Paving | Cement and Mortar Mixers | 1 | 6.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 6.00 | 130 | 0.42 |
| Paving | Paving Equipment | 1 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 1 | 7.00 | 80 | 0.38 |
| Paving | 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 | 5 | 13.00 | 0.00 | 142.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 3 | 8.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 7 | 148.00 | 39.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 30.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 5 | 13.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

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3.1 Mitigation Measures Construction

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2017

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 | | | | | 0.0153 | 0.0000 | 0.0153 | 2.3200e-003 | 0.0000 | 2.3200e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0276 | 0.2676 | 0.1556 | 2.4000e-004 | | 0.0165 | 0.0165 | | 0.0154 | 0.0154 | 0.0000 | 21.9668 | 21.9668 | 5.5600e-003 | 0.0000 | 22.1057 |
| Total | 0.0276 | 0.2676 | 0.1556 | 2.4000e-004 | 0.0153 | 0.0165 | 0.0318 | 2.3200e-003 | 0.0154 | 0.0177 | 0.0000 | 21.9668 | 21.9668 | 5.5600e-003 | 0.0000 | 22.1057 |

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3.2 Demolition - 2017

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 | 8.1000e-004 | 0.0255 | 5.2000e-003 | 6.0000e-005 | 1.2200e-003 | 1.3000e-004 | 1.3500e-003 | 3.4000e-004 | 1.3000e-004 | 4.6000e-004 | 0.0000 | 5.6477 | 5.6477 | 4.0000e-004 | 0.0000 | 5.6578 |
| 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 | 8.2000e-004 | 7.1000e-004 | 7.5900e-003 | 2.0000e-005 | 1.4200e-003 | 1.0000e-005 | 1.4400e-003 | 3.8000e-004 | 1.0000e-005 | 3.9000e-004 | 0.0000 | 1.4554 | 1.4554 | 6.0000e-005 | 0.0000 | 1.4569 |
| Total | 1.6300e-003 | 0.0263 | 0.0128 | 8.0000e-005 | 2.6400e-003 | 1.4000e-004 | 2.7900e-003 | 7.2000e-004 | 1.4000e-004 | 8.5000e-004 | 0.0000 | 7.1030 | 7.1030 | 4.6000e-004 | 0.0000 | 7.1147 |

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 | | | | | 5.6700e-003 | 0.0000 | 5.6700e-003 | 8.6000e-004 | 0.0000 | 8.6000e-004 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0276 | 0.2676 | 0.1556 | 2.4000e-004 | | 0.0165 | 0.0165 | | 0.0154 | 0.0154 | 0.0000 | 21.9668 | 21.9668 | 5.5600e-003 | 0.0000 | 22.1057 |
| Total | 0.0276 | 0.2676 | 0.1556 | 2.4000e-004 | 5.6700e-003 | 0.0165 | 0.0222 | 8.6000e-004 | 0.0154 | 0.0163 | 0.0000 | 21.9668 | 21.9668 | 5.5600e-003 | 0.0000 | 22.1057 |

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3.2 Demolition - 2017

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 | 8.1000e-004 | 0.0255 | 5.2000e-003 | 6.0000e-005 | 1.2200e-003 | 1.3000e-004 | 1.3500e-003 | 3.4000e-004 | 1.3000e-004 | 4.6000e-004 | 0.0000 | 5.6477 | 5.6477 | 4.0000e-004 | 0.0000 | 5.6578 |
| 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 | 8.2000e-004 | 7.1000e-004 | 7.5900e-003 | 2.0000e-005 | 1.4200e-003 | 1.0000e-005 | 1.4400e-003 | 3.8000e-004 | 1.0000e-005 | 3.9000e-004 | 0.0000 | 1.4554 | 1.4554 | 6.0000e-005 | 0.0000 | 1.4569 |
| Total | 1.6300e-003 | 0.0263 | 0.0128 | 8.0000e-005 | 2.6400e-003 | 1.4000e-004 | 2.7900e-003 | 7.2000e-004 | 1.4000e-004 | 8.5000e-004 | 0.0000 | 7.1030 | 7.1030 | 4.6000e-004 | 0.0000 | 7.1147 |

3.3 Grading - 2017

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 | | | | | 0.0234 | 0.0000 | 0.0234 | 0.0125 | 0.0000 | 0.0125 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 8.0100e-003 | 0.0915 | 0.0352 | 7.0000e-005 | | 4.3700e-003 | 4.3700e-003 | | 4.0200e-003 | 4.0200e-003 | 0.0000 | 6.5539 | 6.5539 | 2.0100e-003 | 0.0000 | 6.6041 |
| Total | 8.0100e-003 | 0.0915 | 0.0352 | 7.0000e-005 | 0.0234 | 4.3700e-003 | 0.0278 | 0.0125 | 4.0200e-003 | 0.0165 | 0.0000 | 6.5539 | 6.5539 | 2.0100e-003 | 0.0000 | 6.6041 |

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3.3 Grading - 2017

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 | 2.5000e-004 | 2.2000e-004 | 2.3300e-003 | 0.0000 | 4.4000e-004 | 0.0000 | 4.4000e-004 | 1.2000e-004 | 0.0000 | 1.2000e-004 | 0.0000 | 0.4478 | 0.4478 | 2.0000e-005 | 0.0000 | 0.4483 |
| Total | 2.5000e-004 | 2.2000e-004 | 2.3300e-003 | 0.0000 | 4.4000e-004 | 0.0000 | 4.4000e-004 | 1.2000e-004 | 0.0000 | 1.2000e-004 | 0.0000 | 0.4478 | 0.4478 | 2.0000e-005 | 0.0000 | 0.4483 |

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 | | | | | 8.6600e-003 | 0.0000 | 8.6600e-003 | 4.6300e-003 | 0.0000 | 4.6300e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 8.0100e-003 | 0.0915 | 0.0352 | 7.0000e-005 | | 4.3700e-003 | 4.3700e-003 | | 4.0200e-003 | 4.0200e-003 | 0.0000 | 6.5539 | 6.5539 | 2.0100e-003 | 0.0000 | 6.6041 |
| Total | 8.0100e-003 | 0.0915 | 0.0352 | 7.0000e-005 | 8.6600e-003 | 4.3700e-003 | 0.0130 | 4.6300e-003 | 4.0200e-003 | 8.6500e-003 | 0.0000 | 6.5539 | 6.5539 | 2.0100e-003 | 0.0000 | 6.6041 |

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3.3 Grading - 2017

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 | 2.5000e-004 | 2.2000e-004 | 2.3300e-003 | 0.0000 | 4.4000e-004 | 0.0000 | 4.4000e-004 | 1.2000e-004 | 0.0000 | 1.2000e-004 | 0.0000 | 0.4478 | 0.4478 | 2.0000e-005 | 0.0000 | 0.4483 |
| Total | 2.5000e-004 | 2.2000e-004 | 2.3300e-003 | 0.0000 | 4.4000e-004 | 0.0000 | 4.4000e-004 | 1.2000e-004 | 0.0000 | 1.2000e-004 | 0.0000 | 0.4478 | 0.4478 | 2.0000e-005 | 0.0000 | 0.4483 |

3.4 Building Construction - 2017

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 | 0.1779 | 1.1542 | 0.8614 | 1.3200e-003 | | 0.0739 | 0.0739 | | 0.0713 | 0.0713 | 0.0000 | 111.2497 | 111.2497 | 0.0234 | 0.0000 | 111.8346 |
| Total | 0.1779 | 1.1542 | 0.8614 | 1.3200e-003 | | 0.0739 | 0.0739 | | 0.0713 | 0.0713 | 0.0000 | 111.2497 | 111.2497 | 0.0234 | 0.0000 | 111.8346 |

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3.4 Building Construction - 2017

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 | 0.0124 | 0.3122 | 0.0911 | 6.1000e-004 | 0.0147 | 2.5700e-003 | 0.0173 | 4.2500e-003 | 2.4600e-003 | 6.7100e-003 | 0.0000 | 59.3335 | 59.3335 | 4.2700e-003 | 0.0000 | 59.4403 |
| Worker | 0.0558 | 0.0484 | 0.5182 | 1.1000e-003 | 0.0973 | 9.2000e-004 | 0.0982 | 0.0258 | 8.5000e-004 | 0.0267 | 0.0000 | 99.4114 | 99.4114 | 4.1500e-003 | 0.0000 | 99.5151 |
| Total | 0.0682 | 0.3606 | 0.6093 | 1.7100e-003 | 0.1121 | 3.4900e-003 | 0.1155 | 0.0301 | 3.3100e-003 | 0.0334 | 0.0000 | 158.7449 | 158.7449 | 8.4200e-003 | 0.0000 | 158.9554 |

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 | 0.1779 | 1.1542 | 0.8614 | 1.3200e-003 | | 0.0739 | 0.0739 | | 0.0713 | 0.0713 | 0.0000 | 111.2496 | 111.2496 | 0.0234 | 0.0000 | 111.8344 |
| Total | 0.1779 | 1.1542 | 0.8614 | 1.3200e-003 | | 0.0739 | 0.0739 | | 0.0713 | 0.0713 | 0.0000 | 111.2496 | 111.2496 | 0.0234 | 0.0000 | 111.8344 |

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3.4 Building Construction - 2017

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 | 0.0124 | 0.3122 | 0.0911 | 6.1000e-004 | 0.0147 | 2.5700e-003 | 0.0173 | 4.2500e-003 | 2.4600e-003 | 6.7100e-003 | 0.0000 | 59.3335 | 59.3335 | 4.2700e-003 | 0.0000 | 59.4403 |
| Worker | 0.0558 | 0.0484 | 0.5182 | 1.1000e-003 | 0.0973 | 9.2000e-004 | 0.0982 | 0.0258 | 8.5000e-004 | 0.0267 | 0.0000 | 99.4114 | 99.4114 | 4.1500e-003 | 0.0000 | 99.5151 |
| Total | 0.0682 | 0.3606 | 0.6093 | 1.7100e-003 | 0.1121 | 3.4900e-003 | 0.1155 | 0.0301 | 3.3100e-003 | 0.0334 | 0.0000 | 158.7449 | 158.7449 | 8.4200e-003 | 0.0000 | 158.9554 |

3.4 Building Construction - 2018

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 | 0.1037 | 0.6971 | 0.5551 | 8.8000e-004 | | 0.0423 | 0.0423 | | 0.0409 | 0.0409 | 0.0000 | 73.6938 | 73.6938 | 0.0148 | 0.0000 | 74.0647 |
| Total | 0.1037 | 0.6971 | 0.5551 | 8.8000e-004 | | 0.0423 | 0.0423 | | 0.0409 | 0.0409 | 0.0000 | 73.6938 | 73.6938 | 0.0148 | 0.0000 | 74.0647 |

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3.4 Building Construction - 2018

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 | 7.3100e-003 | 0.1954 | 0.0549 | 4.1000e-004 | 9.8300e-003 | 1.3600e-003 | 0.0112 | 2.8400e-003 | 1.3000e-003 | 4.1300e-003 | 0.0000 | 39.4160 | 39.4160 | 2.7000e-003 | 0.0000 | 39.4836 |
| Worker | 0.0328 | 0.0281 | 0.3018 | 7.1000e-004 | 0.0649 | 5.9000e-004 | 0.0655 | 0.0172 | 5.4000e-004 | 0.0178 | 0.0000 | 64.4567 | 64.4567 | 2.4200e-003 | 0.0000 | 64.5172 |
| Total | 0.0401 | 0.2234 | 0.3567 | 1.1200e-003 | 0.0747 | 1.9500e-003 | 0.0766 | 0.0201 | 1.8400e-003 | 0.0219 | 0.0000 | 103.8726 | 103.8726 | 5.1200e-003 | 0.0000 | 104.0008 |

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 | 0.1037 | 0.6971 | 0.5551 | 8.8000e-004 | | 0.0423 | 0.0423 | | 0.0409 | 0.0409 | 0.0000 | 73.6938 | 73.6938 | 0.0148 | 0.0000 | 74.0646 |
| Total | 0.1037 | 0.6971 | 0.5551 | 8.8000e-004 | | 0.0423 | 0.0423 | | 0.0409 | 0.0409 | 0.0000 | 73.6938 | 73.6938 | 0.0148 | 0.0000 | 74.0646 |

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3.4 Building Construction - 2018

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 | 7.3100e-003 | 0.1954 | 0.0549 | 4.1000e-004 | 9.8300e-003 | 1.3600e-003 | 0.0112 | 2.8400e-003 | 1.3000e-003 | 4.1300e-003 | 0.0000 | 39.4160 | 39.4160 | 2.7000e-003 | 0.0000 | 39.4836 |
| Worker | 0.0328 | 0.0281 | 0.3018 | 7.1000e-004 | 0.0649 | 5.9000e-004 | 0.0655 | 0.0172 | 5.4000e-004 | 0.0178 | 0.0000 | 64.4567 | 64.4567 | 2.4200e-003 | 0.0000 | 64.5172 |
| Total | 0.0401 | 0.2234 | 0.3567 | 1.1200e-003 | 0.0747 | 1.9500e-003 | 0.0766 | 0.0201 | 1.8400e-003 | 0.0219 | 0.0000 | 103.8726 | 103.8726 | 5.1200e-003 | 0.0000 | 104.0008 |

3.5 Paving - 2018

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 | 5.0900e-003 | 0.0523 | 0.0450 | 7.0000e-005 | | 3.0500e-003 | 3.0500e-003 | | 2.8100e-003 | 2.8100e-003 | 0.0000 | 6.1073 | 6.1073 | 1.8700e-003 | 0.0000 | 6.1540 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 5.0900e-003 | 0.0523 | 0.0450 | 7.0000e-005 | | 3.0500e-003 | 3.0500e-003 | | 2.8100e-003 | 2.8100e-003 | 0.0000 | 6.1073 | 6.1073 | 1.8700e-003 | 0.0000 | 6.1540 |

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3.5 Paving - 2018

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 | 3.6000e-004 | 3.1000e-004 | 3.3100e-003 | 1.0000e-005 | 7.1000e-004 | 1.0000e-005 | 7.2000e-004 | 1.9000e-004 | 1.0000e-005 | 2.0000e-004 | 0.0000 | 0.7077 | 0.7077 | 3.0000e-005 | 0.0000 | 0.7084 |
| Total | 3.6000e-004 | 3.1000e-004 | 3.3100e-003 | 1.0000e-005 | 7.1000e-004 | 1.0000e-005 | 7.2000e-004 | 1.9000e-004 | 1.0000e-005 | 2.0000e-004 | 0.0000 | 0.7077 | 0.7077 | 3.0000e-005 | 0.0000 | 0.7084 |

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 | 5.0900e-003 | 0.0523 | 0.0450 | 7.0000e-005 | | 3.0500e-003 | 3.0500e-003 | | 2.8100e-003 | 2.8100e-003 | 0.0000 | 6.1073 | 6.1073 | 1.8700e-003 | 0.0000 | 6.1540 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 5.0900e-003 | 0.0523 | 0.0450 | 7.0000e-005 | | 3.0500e-003 | 3.0500e-003 | | 2.8100e-003 | 2.8100e-003 | 0.0000 | 6.1073 | 6.1073 | 1.8700e-003 | 0.0000 | 6.1540 |

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3.5 Paving - 2018

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 | 3.6000e-004 | 3.1000e-004 | 3.3100e-003 | 1.0000e-005 | 7.1000e-004 | 1.0000e-005 | 7.2000e-004 | 1.9000e-004 | 1.0000e-005 | 2.0000e-004 | 0.0000 | 0.7077 | 0.7077 | 3.0000e-005 | 0.0000 | 0.7084 |
| Total | 3.6000e-004 | 3.1000e-004 | 3.3100e-003 | 1.0000e-005 | 7.1000e-004 | 1.0000e-005 | 7.2000e-004 | 1.9000e-004 | 1.0000e-005 | 2.0000e-004 | 0.0000 | 0.7077 | 0.7077 | 3.0000e-005 | 0.0000 | 0.7084 |

3.6 Architectural Coating - 2018

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 | 0.4325 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0149 | 0.1003 | 0.0927 | 1.5000e-004 | | 7.5300e-003 | 7.5300e-003 | | 7.5300e-003 | 7.5300e-003 | 0.0000 | 12.7663 | 12.7663 | 1.2100e-003 | 0.0000 | 12.7966 |
| Total | 0.4474 | 0.1003 | 0.0927 | 1.5000e-004 | | 7.5300e-003 | 7.5300e-003 | | 7.5300e-003 | 7.5300e-003 | 0.0000 | 12.7663 | 12.7663 | 1.2100e-003 | 0.0000 | 12.7966 |

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3.6 Architectural Coating - 2018

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 | 8.3100e-003 | 7.1100e-003 | 0.0765 | 1.8000e-004 | 0.0164 | 1.5000e-004 | 0.0166 | 4.3700e-003 | 1.4000e-004 | 4.5000e-003 | 0.0000 | 16.3319 | 16.3319 | 6.1000e-004 | 0.0000 | 16.3473 |
| Total | 8.3100e-003 | 7.1100e-003 | 0.0765 | 1.8000e-004 | 0.0164 | 1.5000e-004 | 0.0166 | 4.3700e-003 | 1.4000e-004 | 4.5000e-003 | 0.0000 | 16.3319 | 16.3319 | 6.1000e-004 | 0.0000 | 16.3473 |

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 | 0.4325 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0149 | 0.1003 | 0.0927 | 1.5000e-004 | | 7.5300e-003 | 7.5300e-003 | | 7.5300e-003 | 7.5300e-003 | 0.0000 | 12.7663 | 12.7663 | 1.2100e-003 | 0.0000 | 12.7966 |
| Total | 0.4474 | 0.1003 | 0.0927 | 1.5000e-004 | | 7.5300e-003 | 7.5300e-003 | | 7.5300e-003 | 7.5300e-003 | 0.0000 | 12.7663 | 12.7663 | 1.2100e-003 | 0.0000 | 12.7966 |

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3.6 Architectural Coating - 2018

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 | 8.3100e-003 | 7.1100e-003 | 0.0765 | 1.8000e-004 | 0.0164 | 1.5000e-004 | 0.0166 | 4.3700e-003 | 1.4000e-004 | 4.5000e-003 | 0.0000 | 16.3319 | 16.3319 | 6.1000e-004 | 0.0000 | 16.3473 |
| Total | 8.3100e-003 | 7.1100e-003 | 0.0765 | 1.8000e-004 | 0.0164 | 1.5000e-004 | 0.0166 | 4.3700e-003 | 1.4000e-004 | 4.5000e-003 | 0.0000 | 16.3319 | 16.3319 | 6.1000e-004 | 0.0000 | 16.3473 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.8767 | 4.1198 | 10.3795 | 0.0297 | 1.8352 | 0.0350 | 1.8702 | 0.5006 | 0.0329 | 0.5335 | 0.0000 | 2,734.4848 | 2,734.4848 | 0.1692 | 0.0000 | 2,738.7156 |
| Unmitigated | 0.8767 | 4.1198 | 10.3795 | 0.0297 | 1.8352 | 0.0350 | 1.8702 | 0.5006 | 0.0329 | 0.5335 | 0.0000 | 2,734.4848 | 2,734.4848 | 0.1692 | 0.0000 | 2,738.7156 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------------------|-------------------------|-----------------|-----------------|------------------|------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Mid Rise | 715.00 | 702.90 | 644.60 | 2,402,990 | 2,402,990 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | | |
| General Office Building | 76.15 | 16.88 | 7.20 | 186,296 | 186,296 |
| High Turnover (Sit Down Restaurant) | 633.21 | 788.68 | 656.56 | 897,771 | 897,771 |
| Strip Mall | 520.86 | 520.86 | 276.83 | 924,661 | 924,661 |
| Strip Mall | 139.92 | 139.92 | 74.37 | 248,396 | 248,396 |
| Total | 2,085.14 | 2,169.24 | 1,659.56 | 4,660,114 | 4,660,114 |

4.3 Trip Type Information

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| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|--------------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Apartments Mid Rise | 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 |
| General Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| High Turnover (Sit Down | 16.60 | 8.40 | 6.90 | 8.50 | 72.50 | 19.00 | 37 | 20 | 43 |
| Strip Mall | 16.60 | 8.40 | 6.90 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |
| Strip Mall | 16.60 | 8.40 | 6.90 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| General Office Building | 0.548007 | 0.045751 | 0.200309 | 0.124119 | 0.017133 | 0.006025 | 0.018861 | 0.028423 | 0.002391 | 0.002469 | 0.004915 | 0.000672 | 0.000925 |
| Enclosed Parking with Elevator | 0.548007 | 0.045751 | 0.200309 | 0.124119 | 0.017133 | 0.006025 | 0.018861 | 0.028423 | 0.002391 | 0.002469 | 0.004915 | 0.000672 | 0.000925 |
| High Turnover (Sit Down Restaurant) | 0.548007 | 0.045751 | 0.200309 | 0.124119 | 0.017133 | 0.006025 | 0.018861 | 0.028423 | 0.002391 | 0.002469 | 0.004915 | 0.000672 | 0.000925 |
| Apartments Mid Rise | 0.548007 | 0.045751 | 0.200309 | 0.124119 | 0.017133 | 0.006025 | 0.018861 | 0.028423 | 0.002391 | 0.002469 | 0.004915 | 0.000672 | 0.000925 |
| Strip Mall | 0.548007 | 0.045751 | 0.200309 | 0.124119 | 0.017133 | 0.006025 | 0.018861 | 0.028423 | 0.002391 | 0.002469 | 0.004915 | 0.000672 | 0.000925 |
| Strip Mall | 0.548007 | 0.045751 | 0.200309 | 0.124119 | 0.017133 | 0.006025 | 0.018861 | 0.028423 | 0.002391 | 0.002469 | 0.004915 | 0.000672 | 0.000925 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

8555 Santa Monica Boulevard Mixed-Use Alt. 6 - Los Angeles-South Coast County, Annual

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 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 | 559.6359 | 559.6359 | 0.0231 | 4.7800e-003 | 561.6380 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 623.5276 | 623.5276 | 0.0257 | 5.3300e-003 | 625.7583 |
| NaturalGas Mitigated | 0.0119 | 0.1047 | 0.0682 | 6.5000e-004 | | 8.1900e-003 | 8.1900e-003 | | 8.1900e-003 | 8.1900e-003 | 0.0000 | 117.2847 | 117.2847 | 2.2500e-003 | 2.1500e-003 | 117.9817 |
| NaturalGas Unmitigated | 0.0134 | 0.1179 | 0.0756 | 7.3000e-004 | | 9.2300e-003 | 9.2300e-003 | | 9.2300e-003 | 9.2300e-003 | 0.0000 | 132.2303 | 132.2303 | 2.5300e-003 | 2.4200e-003 | 133.0161 |

8555 Santa Monica Boulevard Mixed-Use Alt. 6 - Los Angeles-South Coast County, Annual

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 | | | | | |
| Apartments Mid Rise | 1.22759e+006 | 6.6200e-003 | 0.0566 | 0.0241 | 3.6000e-004 | | 4.5700e-003 | 4.5700e-003 | | 4.5700e-003 | 4.5700e-003 | 0.0000 | 65.5089 | 65.5089 | 1.2600e-003 | 1.2000e-003 | 65.8982 |
| 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 |
| General Office Building | 71713.8 | 3.9000e-004 | 3.5200e-003 | 2.9500e-003 | 2.0000e-005 | | 2.7000e-004 | 2.7000e-004 | | 2.7000e-004 | 2.7000e-004 | 0.0000 | 3.8269 | 3.8269 | 7.0000e-005 | 7.0000e-005 | 3.8497 |
| High Turnover (Sit Down Restaurant) | 1.15023e+006 | 6.2000e-003 | 0.0564 | 0.0474 | 3.4000e-004 | | 4.2900e-003 | 4.2900e-003 | | 4.2900e-003 | 4.2900e-003 | 0.0000 | 61.3807 | 61.3807 | 1.1800e-003 | 1.1300e-003 | 61.7454 |
| Strip Mall | 22357.5 | 1.2000e-004 | 1.1000e-003 | 9.2000e-004 | 1.0000e-005 | | 8.0000e-005 | 8.0000e-005 | | 8.0000e-005 | 8.0000e-005 | 0.0000 | 1.1931 | 1.1931 | 2.0000e-005 | 2.0000e-005 | 1.2002 |
| Strip Mall | 6010.95 | 3.0000e-005 | 2.9000e-004 | 2.5000e-004 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | 0.0000 | 0.3208 | 0.3208 | 1.0000e-005 | 1.0000e-005 | 0.3227 |
| Total | | 0.0134 | 0.1179 | 0.0756 | 7.3000e-004 | | 9.2300e-003 | 9.2300e-003 | | 9.2300e-003 | 9.2300e-003 | 0.0000 | 132.2303 | 132.2303 | 2.5400e-003 | 2.4300e-003 | 133.0161 |

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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 | | | | | |
| Apartments Mid Rise | 1.03266e+006 | 5.5700e-003 | 0.0476 | 0.0203 | 3.0000e-004 | | 3.8500e-003 | 3.8500e-003 | | 3.8500e-003 | 3.8500e-003 | 0.0000 | 55.1067 | 55.1067 | 1.0600e-003 | 1.0100e-003 | 55.4341 |
| 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 |
| General Office Building | 52382.6 | 2.8000e-004 | 2.5700e-003 | 2.1600e-003 | 2.0000e-005 | | 2.0000e-004 | 2.0000e-004 | | 2.0000e-004 | 2.0000e-004 | 0.0000 | 2.7953 | 2.7953 | 5.0000e-005 | 5.0000e-005 | 2.8120 |
| High Turnover (Sit Down Restaurant) | 1.09001e+006 | 5.8800e-003 | 0.0534 | 0.0449 | 3.2000e-004 | | 4.0600e-003 | 4.0600e-003 | | 4.0600e-003 | 4.0600e-003 | 0.0000 | 58.1669 | 58.1669 | 1.1100e-003 | 1.0700e-003 | 58.5126 |
| Strip Mall | 17956.5 | 1.0000e-004 | 8.8000e-004 | 7.4000e-004 | 1.0000e-005 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | 0.0000 | 0.9582 | 0.9582 | 2.0000e-005 | 2.0000e-005 | 0.9639 |
| Strip Mall | 4827.7 | 3.0000e-005 | 2.4000e-004 | 2.0000e-004 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | 0.0000 | 0.2576 | 0.2576 | 0.0000 | 0.0000 | 0.2592 |
| Total | | 0.0119 | 0.1047 | 0.0682 | 6.5000e-004 | | 8.2000e-003 | 8.2000e-003 | | 8.2000e-003 | 8.2000e-003 | 0.0000 | 117.2847 | 117.2847 | 2.2400e-003 | 2.1500e-003 | 117.9817 |

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5.3 Energy by Land Use - Electricity**Unmitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments Mid Rise | 463379 | 147.6426 | 6.1000e-003 | 1.2600e-003 | 148.1708 |
| Enclosed Parking with Elevator | 940904 | 299.7922 | 0.0124 | 2.5600e-003 | 300.8647 |
| General Office Building | 91321.9 | 29.0971 | 1.2000e-003 | 2.5000e-004 | 29.2012 |
| High Turnover (Sit Down Restaurant) | 223054 | 71.0699 | 2.9300e-003 | 6.1000e-004 | 71.3241 |
| Strip Mall | 187803 | 59.8381 | 2.4700e-003 | 5.1000e-004 | 60.0521 |
| Strip Mall | 50492 | 16.0878 | 6.6000e-004 | 1.4000e-004 | 16.1454 |
| Total | | 623.5276 | 0.0257 | 5.3300e-003 | 625.7583 |

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5.3 Energy by Land Use - Electricity

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments Mid Rise | 457403 | 145.7384 | 6.0200e-003 | 1.2400e-003 | 146.2598 |
| Enclosed Parking with Elevator | 787679 | 250.9714 | 0.0104 | 2.1400e-003 | 251.8693 |
| General Office Building | 82069.1 | 26.1490 | 1.0800e-003 | 2.2000e-004 | 26.2425 |
| High Turnover (Sit Down Restaurant) | 211202 | 67.2934 | 2.7800e-003 | 5.7000e-004 | 67.5342 |
| Strip Mall | 171868 | 54.7609 | 2.2600e-003 | 4.7000e-004 | 54.9568 |
| Strip Mall | 46207.8 | 14.7228 | 6.1000e-004 | 1.3000e-004 | 14.7755 |
| Total | | 559.6359 | 0.0231 | 4.7700e-003 | 561.6380 |

6.0 Area Detail

6.1 Mitigation Measures Area

8555 Santa Monica Boulevard Mixed-Use Alt. 6 - Los Angeles-South Coast County, Annual

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 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 | 0.5909 | 0.0133 | 1.1449 | 6.0000e-005 | | 6.2600e-003 | 6.2600e-003 | | 6.2600e-003 | 6.2600e-003 | 0.0000 | 1.8624 | 1.8624 | 1.8400e-003 | 0.0000 | 1.9085 |
| Unmitigated | 0.5909 | 0.0133 | 1.1449 | 6.0000e-005 | | 6.2600e-003 | 6.2600e-003 | | 6.2600e-003 | 6.2600e-003 | 0.0000 | 1.8624 | 1.8624 | 1.8400e-003 | 0.0000 | 1.9085 |

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 | 0.0423 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.5133 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 0.0354 | 0.0133 | 1.1449 | 6.0000e-005 | | 6.2600e-003 | 6.2600e-003 | | 6.2600e-003 | 6.2600e-003 | 0.0000 | 1.8624 | 1.8624 | 1.8400e-003 | 0.0000 | 1.9085 |
| Total | 0.5909 | 0.0133 | 1.1449 | 6.0000e-005 | | 6.2600e-003 | 6.2600e-003 | | 6.2600e-003 | 6.2600e-003 | 0.0000 | 1.8624 | 1.8624 | 1.8400e-003 | 0.0000 | 1.9085 |

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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 | 0.0423 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.5133 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 0.0354 | 0.0133 | 1.1449 | 6.0000e-005 | | 6.2600e-003 | 6.2600e-003 | | 6.2600e-003 | 6.2600e-003 | 0.0000 | 1.8624 | 1.8624 | 1.8400e-003 | 0.0000 | 1.9085 |
| Total | 0.5909 | 0.0133 | 1.1449 | 6.0000e-005 | | 6.2600e-003 | 6.2600e-003 | | 6.2600e-003 | 6.2600e-003 | 0.0000 | 1.8624 | 1.8624 | 1.8400e-003 | 0.0000 | 1.9085 |

7.0 Water Detail

7.1 Mitigation Measures Water

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| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|-------------|---------|
| Category | MT/yr | | | |
| Mitigated | 71.6340 | 0.3668 | 9.1800e-003 | 83.5392 |
| Unmitigated | 71.6340 | 0.3668 | 9.1800e-003 | 83.5392 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|--------------------|----------------|---------------|--------------------|----------------|
| Land Use | Mgal | MT/yr | | | |
| Apartments Mid Rise | 7.16694 / 4.51829 | 48.0020 | 0.2354 | 5.9000e-003 | 55.6472 |
| Enclosed Parking with Elevator | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 1.21925 / 0.747284 | 8.0905 | 0.0401 | 1.0000e-003 | 9.3909 |
| High Turnover (Sit Down Restaurant) | 1.5116 / 0.096485 | 7.0924 | 0.0495 | 1.2200e-003 | 8.6940 |
| Strip Mall | 1.27331 / 0.780414 | 8.4492 | 0.0418 | 1.0500e-003 | 9.8072 |
| Total | | 71.6340 | 0.3668 | 9.1700e-003 | 83.5392 |

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7.2 Water by Land Use

Mitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|--------------------|----------------|---------------|--------------------|----------------|
| Land Use | Mgal | MT/yr | | | |
| Apartments Mid Rise | 7.16694 / 4.51829 | 48.0020 | 0.2354 | 5.9000e-003 | 55.6472 |
| Enclosed Parking with Elevator | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 1.21925 / 0.747284 | 8.0905 | 0.0401 | 1.0000e-003 | 9.3909 |
| High Turnover (Sit Down Restaurant) | 1.5116 / 0.096485 | 7.0924 | 0.0495 | 1.2200e-003 | 8.6940 |
| Strip Mall | 1.27331 / 0.780414 | 8.4492 | 0.0418 | 1.0500e-003 | 9.8072 |
| Total | | 71.6340 | 0.3668 | 9.1700e-003 | 83.5392 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

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Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|---------|
| | MT/yr | | | |
| Mitigated | 27.2597 | 1.6110 | 0.0000 | 67.5346 |
| Unmitigated | 27.2597 | 1.6110 | 0.0000 | 67.5346 |

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use | tons | MT/yr | | | |
| Apartments Mid Rise | 50.6 | 10.2713 | 0.6070 | 0.0000 | 25.4468 |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 6.38 | 1.2951 | 0.0765 | 0.0000 | 3.2085 |
| High Turnover (Sit Down Restaurant) | 59.26 | 12.0292 | 0.7109 | 0.0000 | 29.8019 |
| Strip Mall | 18.05 | 3.6640 | 0.2165 | 0.0000 | 9.0774 |
| Total | | 27.2597 | 1.6110 | 0.0000 | 67.5346 |

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8.2 Waste by Land Use

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use | tons | MT/yr | | | |
| Apartments Mid Rise | 50.6 | 10.2713 | 0.6070 | 0.0000 | 25.4468 |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 6.38 | 1.2951 | 0.0765 | 0.0000 | 3.2085 |
| High Turnover (Sit Down Restaurant) | 59.26 | 12.0292 | 0.7109 | 0.0000 | 29.8019 |
| Strip Mall | 18.05 | 3.6640 | 0.2165 | 0.0000 | 9.0774 |
| Total | | 27.2597 | 1.6110 | 0.0000 | 67.5346 |

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 |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

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User Defined Equipment

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

11.0 Vegetation

Greenhouse Gas Emission Worksheet
N2O Mobile Emissions

8555 Santa Monica Blvd - Alternative 6

From CalEEMod Vehicle Fleet Mix Output:

Annual VMT: 4,660,114

| Vehicle Type | Percent Type | CH4 Emission Factor (g/mile)* | CH4 Emission (g/mile)** | N2O Emission Factor (g/mile)* | N2O Emission (g/mile)** |
|-------------------------------------|---------------|-------------------------------|-------------------------|-------------------------------|-------------------------|
| Light Auto | 53.1% | 0.04 | 0.0212361 | 0.04 | 0.021236 |
| Light Truck < 3750 lbs | 5.8% | 0.05 | 0.0028921 | 0.06 | 0.00347 |
| Light Truck 3751-5750 lbs | 17.9% | 0.05 | 0.008935 | 0.06 | 0.010722 |
| Med Truck 5751-8500 lbs | 12.5% | 0.12 | 0.0149748 | 0.2 | 0.024958 |
| Lite-Heavy Truck 8501-10,000 lbs | 3.9% | 0.12 | 0.0046876 | 0.2 | 0.007813 |
| Lite-Heavy Truck 10,001-14,000 lbs | 0.6% | 0.09 | 0.0005668 | 0.125 | 0.000787 |
| Med-Heavy Truck 14,001-33,000 lbs | 1.7% | 0.06 | 0.0010171 | 0.05 | 0.000848 |
| Heavy-Heavy Truck 33,001-60,000 lbs | 3.4% | 0.06 | 0.0020345 | 0.05 | 0.001695 |
| Other Bus | 0.2% | 0.06 | 0.0001498 | 0.05 | 0.000125 |
| Urban Bus | 0.3% | 0.06 | 0.0001889 | 0.05 | 0.000157 |
| Motorcycle | 0.4% | 0.09 | 0.000332 | 0.01 | 3.69E-05 |
| School Bus | 0.1% | 0.06 | 3.216E-05 | 0.05 | 2.68E-05 |
| Motor Home | 0.2% | 0.09 | 0.000151 | 0.125 | 0.00021 |
| Total | 100.0% | | 0.0571977 | | 0.072085 |

Total Emissions (metric tons) =

Emission Factor by Vehicle Mix (g/mi) x Annual VMT(mi) x 0.000001 metric tons/g

Conversion to Carbon Dioxide Equivalency (CO2e) Units based on Global Warming Potential (GWP)

CH4 21 GWP
 N2O 310 GWP
 1 ton (short, US) = 0.90718474 metric ton

Annual Mobile Emissions:

| | Total Emissions | Total CO2e units |
|-----------------------|------------------------|--------------------------------|
| N2O Emissions: | 0.3359 metric tons N2O | 104.14 metric tons CO2e |
| Project Total: | | 104.14 metric tons CO2e |

References

- * from Table C.4: Methane and Nitrous Oxide Emission Factors for Mobile Sources by Vehicle and Fuel Type (g/mile). in California Climate Action Registry General Reporting Protocol, Reporting Entity-Wide Greenhouse Gas Emissions, Version 3.1, January 2009. Assume Model year 2000-present, gasoline fueled.
- ** Source: California Climate Action Registry General Reporting Protocol, Reporting Entity-Wide Greenhouse Gas Emissions, Version 3.1, January 2009.
- *** From URBEMIS 2007 results for mobile sources

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Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|--------|---------------|-------------|--------------------|------------|
| General Office Building | 6.86 | 1000sqft | 0.00 | 6,856.00 | 0 |
| Enclosed Parking with Elevator | 335.00 | Space | 0.00 | 134,000.00 | 0 |
| High Turnover (Sit Down Restaurant) | 2.81 | 1000sqft | 0.00 | 2,810.00 | 0 |
| Apartments Mid Rise | 112.00 | Dwelling Unit | 1.26 | 114,843.00 | 320 |
| Strip Mall | 15.65 | 1000sqft | 0.00 | 15,650.00 | 0 |
| Strip Mall | 3.64 | 1000sqft | 0.00 | 3,643.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|----------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33 |
| Climate Zone | 11 | | | Operational Year | 2019 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MWhr) | 702.44 | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity (lb/MWhr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - Alt 7

Land Use - Square feet changed per Alt. 7 information. Hair salon modeled as strip mall. Acrerage based on lot size

Construction Phase - Architectural coating changed to overlap with building construction for more realistic scenario. No site prep for project

Demolition - 31116 square feet of existing buildings to be demolished

Architectural Coating - Changed to 50 g/L per SCAQMD Rule 1113

Vehicle Trips - Weighted average for apartments and live work units and retail. Apartments: 6.5, office: 11.1, resturant: 127, strip mall: 36.79

Woodstoves - Units will not have woodstoves or fireplaces

Area Coating - Changed to 50 per SCAQMD Rule 1113

Energy Use -

Construction Off-road Equipment Mitigation - Water area 2 times per day, vehicle speed limit, and stabilize soil per SCAQMD Rule 403

Energy Mitigation - Title 24 exceeds 2016 CalEEMod by 28 percent

| Table Name | Column Name | Default Value | New Value |
|-------------------------|--------------------------------------|---------------|-----------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 100.00 | 50.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 100.00 | 50.00 |
| tblAreaCoating | Area_EF_Nonresidential_Exterior | 100 | 50 |
| tblAreaCoating | Area_EF_Nonresidential_Interior | 100 | 50 |
| tblAreaCoating | Area_EF_Parking | 100 | 50 |
| tblConstDustMitigation | WaterExposedAreaPM10PercentReduction | 55 | 61 |
| tblConstDustMitigation | WaterExposedAreaPM25PercentReduction | 55 | 61 |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 40 | 15 |
| tblConstructionPhase | NumDays | 10.00 | 100.00 |
| tblConstructionPhase | NumDays | 4.00 | 10.00 |
| tblFireplaces | FireplaceDayYear | 25.00 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.00 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 1,019.20 | 0.00 |
| tblFireplaces | NumberGas | 95.20 | 0.00 |

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| | | | |
|---------------------------|-------------------------|------------|------------|
| tblFireplaces | NumberNoFireplace | 11.20 | 0.00 |
| tblFireplaces | NumberWood | 5.60 | 0.00 |
| tblGrading | AcresOfGrading | 3.75 | 1.50 |
| tblLandUse | BuildingSpaceSquareFeet | 6,860.00 | 6,856.00 |
| tblLandUse | BuildingSpaceSquareFeet | 112,000.00 | 114,843.00 |
| tblLandUse | BuildingSpaceSquareFeet | 3,640.00 | 3,643.00 |
| tblLandUse | LandUseSquareFeet | 6,860.00 | 6,856.00 |
| tblLandUse | LandUseSquareFeet | 112,000.00 | 114,843.00 |
| tblLandUse | LandUseSquareFeet | 3,640.00 | 3,643.00 |
| tblLandUse | LotAcreage | 0.16 | 0.00 |
| tblLandUse | LotAcreage | 3.01 | 0.00 |
| tblLandUse | LotAcreage | 0.06 | 0.00 |
| tblLandUse | LotAcreage | 2.95 | 1.26 |
| tblLandUse | LotAcreage | 0.36 | 0.00 |
| tblLandUse | LotAcreage | 0.08 | 0.00 |
| tblProjectCharacteristics | OperationalYear | 2018 | 2019 |
| tblVehicleTrips | ST_TR | 42.04 | 36.79 |
| tblVehicleTrips | SU_TR | 20.43 | 36.97 |
| tblVehicleTrips | WD_TR | 6.65 | 6.50 |
| tblVehicleTrips | WD_TR | 11.03 | 11.10 |
| tblVehicleTrips | WD_TR | 127.15 | 127.00 |
| tblVehicleTrips | WD_TR | 44.32 | 36.79 |
| tblWoodstoves | NumberCatalytic | 5.60 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 5.60 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 25.00 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 999.60 | 0.00 |

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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 | | | | | |
| 2017 | 0.5183 | 1.9582 | 1.7586 | 3.5800e-003 | 0.1605 | 0.1028 | 0.2632 | 0.0475 | 0.0985 | 0.1460 | 0.0000 | 319.2222 | 319.2222 | 0.0408 | 0.0000 | 320.2427 |
| 2018 | 0.3828 | 1.0263 | 1.0393 | 2.2300e-003 | 0.0825 | 0.0512 | 0.1336 | 0.0221 | 0.0493 | 0.0715 | 0.0000 | 197.7874 | 197.7874 | 0.0227 | 0.0000 | 198.3555 |
| Maximum | 0.5183 | 1.9582 | 1.7586 | 3.5800e-003 | 0.1605 | 0.1028 | 0.2632 | 0.0475 | 0.0985 | 0.1460 | 0.0000 | 319.2222 | 319.2222 | 0.0408 | 0.0000 | 320.2427 |

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 | | | | | |
| 2017 | 0.5183 | 1.9582 | 1.7586 | 3.5800e-003 | 0.1361 | 0.1028 | 0.2389 | 0.0382 | 0.0985 | 0.1367 | 0.0000 | 319.2221 | 319.2221 | 0.0408 | 0.0000 | 320.2425 |
| 2018 | 0.3828 | 1.0263 | 1.0393 | 2.2300e-003 | 0.0825 | 0.0512 | 0.1336 | 0.0221 | 0.0493 | 0.0715 | 0.0000 | 197.7873 | 197.7873 | 0.0227 | 0.0000 | 198.3554 |
| Maximum | 0.5183 | 1.9582 | 1.7586 | 3.5800e-003 | 0.1361 | 0.1028 | 0.2389 | 0.0382 | 0.0985 | 0.1367 | 0.0000 | 319.2221 | 319.2221 | 0.0408 | 0.0000 | 320.2425 |

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| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 10.03 | 0.00 | 6.14 | 13.40 | 0.00 | 4.29 | 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 | 6-5-2017 | 9-4-2017 | 0.9187 | 0.9187 |
| 2 | 9-5-2017 | 12-4-2017 | 1.1313 | 1.1313 |
| 3 | 12-5-2017 | 3-4-2018 | 1.2529 | 1.2529 |
| 4 | 3-5-2018 | 6-4-2018 | 0.5150 | 0.5150 |
| | | Highest | 1.2529 | 1.2529 |

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 | 0.6078 | 0.0135 | 1.1654 | 6.0000e-005 | | 6.3800e-003 | 6.3800e-003 | | 6.3800e-003 | 6.3800e-003 | 0.0000 | 1.8957 | 1.8957 | 1.8800e-003 | 0.0000 | 1.9426 |
| Energy | 0.0108 | 0.0945 | 0.0555 | 5.9000e-004 | | 7.4600e-003 | 7.4600e-003 | | 7.4600e-003 | 7.4600e-003 | 0.0000 | 699.3517 | 699.3517 | 0.0265 | 7.0200e-003 | 702.1064 |
| Mobile | 0.8589 | 4.0640 | 10.3071 | 0.0296 | 1.7808 | 0.0349 | 1.8157 | 0.4873 | 0.0328 | 0.5202 | 0.0000 | 2,731.3871 | 2,731.3871 | 0.1682 | 0.0000 | 2,735.5926 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 22.6518 | 0.0000 | 22.6518 | 1.3387 | 0.0000 | 56.1188 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 3.4258 | 67.0227 | 70.4485 | 0.3546 | 8.8800e-003 | 81.9607 |
| Total | 1.4775 | 4.1720 | 11.5280 | 0.0303 | 1.7808 | 0.0488 | 1.8296 | 0.4873 | 0.0467 | 0.5340 | 26.0776 | 3,499.6573 | 3,525.7348 | 1.8899 | 0.0159 | 3,577.7212 |

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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 | 0.6078 | 0.0135 | 1.1654 | 6.0000e-005 | | 6.3800e-003 | 6.3800e-003 | | 6.3800e-003 | 6.3800e-003 | 0.0000 | 1.8957 | 1.8957 | 1.8800e-003 | 0.0000 | 1.9426 |
| Energy | 9.4100e-003 | 0.0824 | 0.0492 | 5.1000e-004 | | 6.5000e-003 | 6.5000e-003 | | 6.5000e-003 | 6.5000e-003 | 0.0000 | 624.4717 | 624.4717 | 0.0237 | 6.2500e-003 | 626.9259 |
| Mobile | 0.8589 | 4.0640 | 10.3071 | 0.0296 | 1.7808 | 0.0349 | 1.8157 | 0.4873 | 0.0328 | 0.5202 | 0.0000 | 2,731.3871 | 2,731.3871 | 0.1682 | 0.0000 | 2,735.5926 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 22.6518 | 0.0000 | 22.6518 | 1.3387 | 0.0000 | 56.1188 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 3.4258 | 67.0227 | 70.4485 | 0.3546 | 8.8800e-003 | 81.9607 |
| Total | 1.4761 | 4.1599 | 11.5217 | 0.0302 | 1.7808 | 0.0478 | 1.8286 | 0.4873 | 0.0457 | 0.5330 | 26.0776 | 3,424.7773 | 3,450.8548 | 1.8871 | 0.0151 | 3,502.5407 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Percent Reduction | 0.09 | 0.29 | 0.06 | 0.26 | 0.00 | 1.97 | 0.05 | 0.00 | 2.06 | 0.18 | 0.00 | 2.14 | 2.12 | 0.15 | 4.84 | 2.10 |

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 | Demolition | Demolition | 6/5/2017 | 6/30/2017 | 5 | 20 | |
| 2 | Grading | Grading | 7/1/2017 | 7/14/2017 | 5 | 10 | |
| 3 | Building Construction | Building Construction | 7/17/2017 | 4/20/2018 | 5 | 200 | |
| 4 | Architectural Coating | Architectural Coating | 10/23/2017 | 3/9/2018 | 5 | 100 | |
| 5 | Paving | Paving | 4/23/2018 | 5/4/2018 | 5 | 10 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 232,557; Residential Outdoor: 77,519; Non-Residential Indoor: 43,439; Non-Residential Outdoor: 14,480; Striped Parking Area: 8,040 (Architectural Coating – sqft)

OffRoad Equipment

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| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Demolition | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Demolition | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |
| Grading | Graders | 1 | 6.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 6.00 | 247 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 1 | 7.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 6.00 | 231 | 0.29 |
| Building Construction | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 1 | 6.00 | 97 | 0.37 |
| Building Construction | Welders | 3 | 8.00 | 46 | 0.45 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Paving | Cement and Mortar Mixers | 1 | 6.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 6.00 | 130 | 0.42 |
| Paving | Paving Equipment | 1 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 1 | 7.00 | 80 | 0.38 |
| Paving | 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 | 5 | 13.00 | 0.00 | 142.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 3 | 8.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 7 | 146.00 | 39.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 29.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 5 | 13.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

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3.1 Mitigation Measures Construction

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2017

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 | | | | | 0.0153 | 0.0000 | 0.0153 | 2.3200e-003 | 0.0000 | 2.3200e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0276 | 0.2676 | 0.1556 | 2.4000e-004 | | 0.0165 | 0.0165 | | 0.0154 | 0.0154 | 0.0000 | 21.9668 | 21.9668 | 5.5600e-003 | 0.0000 | 22.1057 |
| Total | 0.0276 | 0.2676 | 0.1556 | 2.4000e-004 | 0.0153 | 0.0165 | 0.0318 | 2.3200e-003 | 0.0154 | 0.0177 | 0.0000 | 21.9668 | 21.9668 | 5.5600e-003 | 0.0000 | 22.1057 |

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3.2 Demolition - 2017

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 | 8.1000e-004 | 0.0255 | 5.2000e-003 | 6.0000e-005 | 1.2200e-003 | 1.3000e-004 | 1.3500e-003 | 3.4000e-004 | 1.3000e-004 | 4.6000e-004 | 0.0000 | 5.6477 | 5.6477 | 4.0000e-004 | 0.0000 | 5.6578 |
| 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 | 8.2000e-004 | 7.1000e-004 | 7.5900e-003 | 2.0000e-005 | 1.4200e-003 | 1.0000e-005 | 1.4400e-003 | 3.8000e-004 | 1.0000e-005 | 3.9000e-004 | 0.0000 | 1.4554 | 1.4554 | 6.0000e-005 | 0.0000 | 1.4569 |
| Total | 1.6300e-003 | 0.0263 | 0.0128 | 8.0000e-005 | 2.6400e-003 | 1.4000e-004 | 2.7900e-003 | 7.2000e-004 | 1.4000e-004 | 8.5000e-004 | 0.0000 | 7.1030 | 7.1030 | 4.6000e-004 | 0.0000 | 7.1147 |

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 | | | | | 5.6700e-003 | 0.0000 | 5.6700e-003 | 8.6000e-004 | 0.0000 | 8.6000e-004 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0276 | 0.2676 | 0.1556 | 2.4000e-004 | | 0.0165 | 0.0165 | | 0.0154 | 0.0154 | 0.0000 | 21.9668 | 21.9668 | 5.5600e-003 | 0.0000 | 22.1057 |
| Total | 0.0276 | 0.2676 | 0.1556 | 2.4000e-004 | 5.6700e-003 | 0.0165 | 0.0222 | 8.6000e-004 | 0.0154 | 0.0163 | 0.0000 | 21.9668 | 21.9668 | 5.5600e-003 | 0.0000 | 22.1057 |

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3.2 Demolition - 2017

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 | 8.1000e-004 | 0.0255 | 5.2000e-003 | 6.0000e-005 | 1.2200e-003 | 1.3000e-004 | 1.3500e-003 | 3.4000e-004 | 1.3000e-004 | 4.6000e-004 | 0.0000 | 5.6477 | 5.6477 | 4.0000e-004 | 0.0000 | 5.6578 |
| 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 | 8.2000e-004 | 7.1000e-004 | 7.5900e-003 | 2.0000e-005 | 1.4200e-003 | 1.0000e-005 | 1.4400e-003 | 3.8000e-004 | 1.0000e-005 | 3.9000e-004 | 0.0000 | 1.4554 | 1.4554 | 6.0000e-005 | 0.0000 | 1.4569 |
| Total | 1.6300e-003 | 0.0263 | 0.0128 | 8.0000e-005 | 2.6400e-003 | 1.4000e-004 | 2.7900e-003 | 7.2000e-004 | 1.4000e-004 | 8.5000e-004 | 0.0000 | 7.1030 | 7.1030 | 4.6000e-004 | 0.0000 | 7.1147 |

3.3 Grading - 2017

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 | | | | | 0.0234 | 0.0000 | 0.0234 | 0.0125 | 0.0000 | 0.0125 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 8.0100e-003 | 0.0915 | 0.0352 | 7.0000e-005 | | 4.3700e-003 | 4.3700e-003 | | 4.0200e-003 | 4.0200e-003 | 0.0000 | 6.5539 | 6.5539 | 2.0100e-003 | 0.0000 | 6.6041 |
| Total | 8.0100e-003 | 0.0915 | 0.0352 | 7.0000e-005 | 0.0234 | 4.3700e-003 | 0.0278 | 0.0125 | 4.0200e-003 | 0.0165 | 0.0000 | 6.5539 | 6.5539 | 2.0100e-003 | 0.0000 | 6.6041 |

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3.3 Grading - 2017

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 | 2.5000e-004 | 2.2000e-004 | 2.3300e-003 | 0.0000 | 4.4000e-004 | 0.0000 | 4.4000e-004 | 1.2000e-004 | 0.0000 | 1.2000e-004 | 0.0000 | 0.4478 | 0.4478 | 2.0000e-005 | 0.0000 | 0.4483 |
| Total | 2.5000e-004 | 2.2000e-004 | 2.3300e-003 | 0.0000 | 4.4000e-004 | 0.0000 | 4.4000e-004 | 1.2000e-004 | 0.0000 | 1.2000e-004 | 0.0000 | 0.4478 | 0.4478 | 2.0000e-005 | 0.0000 | 0.4483 |

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 | | | | | 8.6600e-003 | 0.0000 | 8.6600e-003 | 4.6300e-003 | 0.0000 | 4.6300e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 8.0100e-003 | 0.0915 | 0.0352 | 7.0000e-005 | | 4.3700e-003 | 4.3700e-003 | | 4.0200e-003 | 4.0200e-003 | 0.0000 | 6.5539 | 6.5539 | 2.0100e-003 | 0.0000 | 6.6041 |
| Total | 8.0100e-003 | 0.0915 | 0.0352 | 7.0000e-005 | 8.6600e-003 | 4.3700e-003 | 0.0130 | 4.6300e-003 | 4.0200e-003 | 8.6500e-003 | 0.0000 | 6.5539 | 6.5539 | 2.0100e-003 | 0.0000 | 6.6041 |

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3.3 Grading - 2017

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 | 2.5000e-004 | 2.2000e-004 | 2.3300e-003 | 0.0000 | 4.4000e-004 | 0.0000 | 4.4000e-004 | 1.2000e-004 | 0.0000 | 1.2000e-004 | 0.0000 | 0.4478 | 0.4478 | 2.0000e-005 | 0.0000 | 0.4483 |
| Total | 2.5000e-004 | 2.2000e-004 | 2.3300e-003 | 0.0000 | 4.4000e-004 | 0.0000 | 4.4000e-004 | 1.2000e-004 | 0.0000 | 1.2000e-004 | 0.0000 | 0.4478 | 0.4478 | 2.0000e-005 | 0.0000 | 0.4483 |

3.4 Building Construction - 2017

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 | 0.1779 | 1.1542 | 0.8614 | 1.3200e-003 | | 0.0739 | 0.0739 | | 0.0713 | 0.0713 | 0.0000 | 111.2497 | 111.2497 | 0.0234 | 0.0000 | 111.8346 |
| Total | 0.1779 | 1.1542 | 0.8614 | 1.3200e-003 | | 0.0739 | 0.0739 | | 0.0713 | 0.0713 | 0.0000 | 111.2497 | 111.2497 | 0.0234 | 0.0000 | 111.8346 |

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3.4 Building Construction - 2017

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 | 0.0124 | 0.3122 | 0.0911 | 6.1000e-004 | 0.0147 | 2.5700e-003 | 0.0173 | 4.2500e-003 | 2.4600e-003 | 6.7100e-003 | 0.0000 | 59.3335 | 59.3335 | 4.2700e-003 | 0.0000 | 59.4403 |
| Worker | 0.0550 | 0.0478 | 0.5112 | 1.0900e-003 | 0.0960 | 9.1000e-004 | 0.0969 | 0.0255 | 8.4000e-004 | 0.0263 | 0.0000 | 98.0680 | 98.0680 | 4.0900e-003 | 0.0000 | 98.1703 |
| Total | 0.0675 | 0.3600 | 0.6023 | 1.7000e-003 | 0.1107 | 3.4800e-003 | 0.1142 | 0.0298 | 3.3000e-003 | 0.0331 | 0.0000 | 157.4015 | 157.4015 | 8.3600e-003 | 0.0000 | 157.6106 |

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 | 0.1779 | 1.1542 | 0.8614 | 1.3200e-003 | | 0.0739 | 0.0739 | | 0.0713 | 0.0713 | 0.0000 | 111.2496 | 111.2496 | 0.0234 | 0.0000 | 111.8344 |
| Total | 0.1779 | 1.1542 | 0.8614 | 1.3200e-003 | | 0.0739 | 0.0739 | | 0.0713 | 0.0713 | 0.0000 | 111.2496 | 111.2496 | 0.0234 | 0.0000 | 111.8344 |

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3.4 Building Construction - 2017

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 | 0.0124 | 0.3122 | 0.0911 | 6.1000e-004 | 0.0147 | 2.5700e-003 | 0.0173 | 4.2500e-003 | 2.4600e-003 | 6.7100e-003 | 0.0000 | 59.3335 | 59.3335 | 4.2700e-003 | 0.0000 | 59.4403 |
| Worker | 0.0550 | 0.0478 | 0.5112 | 1.0900e-003 | 0.0960 | 9.1000e-004 | 0.0969 | 0.0255 | 8.4000e-004 | 0.0263 | 0.0000 | 98.0680 | 98.0680 | 4.0900e-003 | 0.0000 | 98.1703 |
| Total | 0.0675 | 0.3600 | 0.6023 | 1.7000e-003 | 0.1107 | 3.4800e-003 | 0.1142 | 0.0298 | 3.3000e-003 | 0.0331 | 0.0000 | 157.4015 | 157.4015 | 8.3600e-003 | 0.0000 | 157.6106 |

3.4 Building Construction - 2018

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 | 0.1037 | 0.6971 | 0.5551 | 8.8000e-004 | | 0.0423 | 0.0423 | | 0.0409 | 0.0409 | 0.0000 | 73.6938 | 73.6938 | 0.0148 | 0.0000 | 74.0647 |
| Total | 0.1037 | 0.6971 | 0.5551 | 8.8000e-004 | | 0.0423 | 0.0423 | | 0.0409 | 0.0409 | 0.0000 | 73.6938 | 73.6938 | 0.0148 | 0.0000 | 74.0647 |

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3.4 Building Construction - 2018

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 | 7.3100e-003 | 0.1954 | 0.0549 | 4.1000e-004 | 9.8300e-003 | 1.3600e-003 | 0.0112 | 2.8400e-003 | 1.3000e-003 | 4.1300e-003 | 0.0000 | 39.4160 | 39.4160 | 2.7000e-003 | 0.0000 | 39.4836 |
| Worker | 0.0324 | 0.0277 | 0.2977 | 7.0000e-004 | 0.0640 | 5.8000e-004 | 0.0646 | 0.0170 | 5.4000e-004 | 0.0175 | 0.0000 | 63.5856 | 63.5856 | 2.3900e-003 | 0.0000 | 63.6454 |
| Total | 0.0397 | 0.2231 | 0.3527 | 1.1100e-003 | 0.0738 | 1.9400e-003 | 0.0758 | 0.0198 | 1.8400e-003 | 0.0217 | 0.0000 | 103.0016 | 103.0016 | 5.0900e-003 | 0.0000 | 103.1289 |

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 | 0.1037 | 0.6971 | 0.5551 | 8.8000e-004 | | 0.0423 | 0.0423 | | 0.0409 | 0.0409 | 0.0000 | 73.6938 | 73.6938 | 0.0148 | 0.0000 | 74.0646 |
| Total | 0.1037 | 0.6971 | 0.5551 | 8.8000e-004 | | 0.0423 | 0.0423 | | 0.0409 | 0.0409 | 0.0000 | 73.6938 | 73.6938 | 0.0148 | 0.0000 | 74.0646 |

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3.4 Building Construction - 2018

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 | 7.3100e-003 | 0.1954 | 0.0549 | 4.1000e-004 | 9.8300e-003 | 1.3600e-003 | 0.0112 | 2.8400e-003 | 1.3000e-003 | 4.1300e-003 | 0.0000 | 39.4160 | 39.4160 | 2.7000e-003 | 0.0000 | 39.4836 |
| Worker | 0.0324 | 0.0277 | 0.2977 | 7.0000e-004 | 0.0640 | 5.8000e-004 | 0.0646 | 0.0170 | 5.4000e-004 | 0.0175 | 0.0000 | 63.5856 | 63.5856 | 2.3900e-003 | 0.0000 | 63.6454 |
| Total | 0.0397 | 0.2231 | 0.3527 | 1.1100e-003 | 0.0738 | 1.9400e-003 | 0.0758 | 0.0198 | 1.8400e-003 | 0.0217 | 0.0000 | 103.0016 | 103.0016 | 5.0900e-003 | 0.0000 | 103.1289 |

3.5 Architectural Coating - 2017

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 | 0.2225 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 8.3100e-003 | 0.0546 | 0.0467 | 7.0000e-005 | | 4.3300e-003 | 4.3300e-003 | | 4.3300e-003 | 4.3300e-003 | 0.0000 | 6.3831 | 6.3831 | 6.7000e-004 | 0.0000 | 6.4000 |
| Total | 0.2308 | 0.0546 | 0.0467 | 7.0000e-005 | | 4.3300e-003 | 4.3300e-003 | | 4.3300e-003 | 4.3300e-003 | 0.0000 | 6.3831 | 6.3831 | 6.7000e-004 | 0.0000 | 6.4000 |

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3.5 Architectural Coating - 2017

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 | 4.5500e-003 | 3.9500e-003 | 0.0423 | 9.0000e-005 | 7.9400e-003 | 8.0000e-005 | 8.0200e-003 | 2.1100e-003 | 7.0000e-005 | 2.1800e-003 | 0.0000 | 8.1164 | 8.1164 | 3.4000e-004 | 0.0000 | 8.1248 |
| Total | 4.5500e-003 | 3.9500e-003 | 0.0423 | 9.0000e-005 | 7.9400e-003 | 8.0000e-005 | 8.0200e-003 | 2.1100e-003 | 7.0000e-005 | 2.1800e-003 | 0.0000 | 8.1164 | 8.1164 | 3.4000e-004 | 0.0000 | 8.1248 |

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 | 0.2225 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 8.3100e-003 | 0.0546 | 0.0467 | 7.0000e-005 | | 4.3300e-003 | 4.3300e-003 | | 4.3300e-003 | 4.3300e-003 | 0.0000 | 6.3831 | 6.3831 | 6.7000e-004 | 0.0000 | 6.4000 |
| Total | 0.2308 | 0.0546 | 0.0467 | 7.0000e-005 | | 4.3300e-003 | 4.3300e-003 | | 4.3300e-003 | 4.3300e-003 | 0.0000 | 6.3831 | 6.3831 | 6.7000e-004 | 0.0000 | 6.4000 |

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3.5 Architectural Coating - 2017

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 | 4.5500e-003 | 3.9500e-003 | 0.0423 | 9.0000e-005 | 7.9400e-003 | 8.0000e-005 | 8.0200e-003 | 2.1100e-003 | 7.0000e-005 | 2.1800e-003 | 0.0000 | 8.1164 | 8.1164 | 3.4000e-004 | 0.0000 | 8.1248 |
| Total | 4.5500e-003 | 3.9500e-003 | 0.0423 | 9.0000e-005 | 7.9400e-003 | 8.0000e-005 | 8.0200e-003 | 2.1100e-003 | 7.0000e-005 | 2.1800e-003 | 0.0000 | 8.1164 | 8.1164 | 3.4000e-004 | 0.0000 | 8.1248 |

3.5 Architectural Coating - 2018

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 | 0.2225 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 7.4700e-003 | 0.0501 | 0.0464 | 7.0000e-005 | | 3.7600e-003 | 3.7600e-003 | | 3.7600e-003 | 3.7600e-003 | 0.0000 | 6.3832 | 6.3832 | 6.1000e-004 | 0.0000 | 6.3983 |
| Total | 0.2300 | 0.0501 | 0.0464 | 7.0000e-005 | | 3.7600e-003 | 3.7600e-003 | | 3.7600e-003 | 3.7600e-003 | 0.0000 | 6.3832 | 6.3832 | 6.1000e-004 | 0.0000 | 6.3983 |

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3.5 Architectural Coating - 2018

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 | 4.0200e-003 | 3.4400e-003 | 0.0370 | 9.0000e-005 | 7.9400e-003 | 7.0000e-005 | 8.0200e-003 | 2.1100e-003 | 7.0000e-005 | 2.1800e-003 | 0.0000 | 7.8938 | 7.8938 | 3.0000e-004 | 0.0000 | 7.9012 |
| Total | 4.0200e-003 | 3.4400e-003 | 0.0370 | 9.0000e-005 | 7.9400e-003 | 7.0000e-005 | 8.0200e-003 | 2.1100e-003 | 7.0000e-005 | 2.1800e-003 | 0.0000 | 7.8938 | 7.8938 | 3.0000e-004 | 0.0000 | 7.9012 |

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 | 0.2225 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 7.4700e-003 | 0.0501 | 0.0464 | 7.0000e-005 | | 3.7600e-003 | 3.7600e-003 | | 3.7600e-003 | 3.7600e-003 | 0.0000 | 6.3831 | 6.3831 | 6.1000e-004 | 0.0000 | 6.3983 |
| Total | 0.2300 | 0.0501 | 0.0464 | 7.0000e-005 | | 3.7600e-003 | 3.7600e-003 | | 3.7600e-003 | 3.7600e-003 | 0.0000 | 6.3831 | 6.3831 | 6.1000e-004 | 0.0000 | 6.3983 |

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3.5 Architectural Coating - 2018

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 | 4.0200e-003 | 3.4400e-003 | 0.0370 | 9.0000e-005 | 7.9400e-003 | 7.0000e-005 | 8.0200e-003 | 2.1100e-003 | 7.0000e-005 | 2.1800e-003 | 0.0000 | 7.8938 | 7.8938 | 3.0000e-004 | 0.0000 | 7.9012 |
| Total | 4.0200e-003 | 3.4400e-003 | 0.0370 | 9.0000e-005 | 7.9400e-003 | 7.0000e-005 | 8.0200e-003 | 2.1100e-003 | 7.0000e-005 | 2.1800e-003 | 0.0000 | 7.8938 | 7.8938 | 3.0000e-004 | 0.0000 | 7.9012 |

3.6 Paving - 2018

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 | 5.0900e-003 | 0.0523 | 0.0450 | 7.0000e-005 | | 3.0500e-003 | 3.0500e-003 | | 2.8100e-003 | 2.8100e-003 | 0.0000 | 6.1073 | 6.1073 | 1.8700e-003 | 0.0000 | 6.1540 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 5.0900e-003 | 0.0523 | 0.0450 | 7.0000e-005 | | 3.0500e-003 | 3.0500e-003 | | 2.8100e-003 | 2.8100e-003 | 0.0000 | 6.1073 | 6.1073 | 1.8700e-003 | 0.0000 | 6.1540 |

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3.6 Paving - 2018

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 | 3.6000e-004 | 3.1000e-004 | 3.3100e-003 | 1.0000e-005 | 7.1000e-004 | 1.0000e-005 | 7.2000e-004 | 1.9000e-004 | 1.0000e-005 | 2.0000e-004 | 0.0000 | 0.7077 | 0.7077 | 3.0000e-005 | 0.0000 | 0.7084 |
| Total | 3.6000e-004 | 3.1000e-004 | 3.3100e-003 | 1.0000e-005 | 7.1000e-004 | 1.0000e-005 | 7.2000e-004 | 1.9000e-004 | 1.0000e-005 | 2.0000e-004 | 0.0000 | 0.7077 | 0.7077 | 3.0000e-005 | 0.0000 | 0.7084 |

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 | 5.0900e-003 | 0.0523 | 0.0450 | 7.0000e-005 | | 3.0500e-003 | 3.0500e-003 | | 2.8100e-003 | 2.8100e-003 | 0.0000 | 6.1073 | 6.1073 | 1.8700e-003 | 0.0000 | 6.1540 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 5.0900e-003 | 0.0523 | 0.0450 | 7.0000e-005 | | 3.0500e-003 | 3.0500e-003 | | 2.8100e-003 | 2.8100e-003 | 0.0000 | 6.1073 | 6.1073 | 1.8700e-003 | 0.0000 | 6.1540 |

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3.6 Paving - 2018

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 | 3.6000e-004 | 3.1000e-004 | 3.3100e-003 | 1.0000e-005 | 7.1000e-004 | 1.0000e-005 | 7.2000e-004 | 1.9000e-004 | 1.0000e-005 | 2.0000e-004 | 0.0000 | 0.7077 | 0.7077 | 3.0000e-005 | 0.0000 | 0.7084 |
| Total | 3.6000e-004 | 3.1000e-004 | 3.3100e-003 | 1.0000e-005 | 7.1000e-004 | 1.0000e-005 | 7.2000e-004 | 1.9000e-004 | 1.0000e-005 | 2.0000e-004 | 0.0000 | 0.7077 | 0.7077 | 3.0000e-005 | 0.0000 | 0.7084 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.8589 | 4.0640 | 10.3071 | 0.0296 | 1.7808 | 0.0349 | 1.8157 | 0.4873 | 0.0328 | 0.5202 | 0.0000 | 2,731.3871 | 2,731.3871 | 0.1682 | 0.0000 | 2,735.5926 |
| Unmitigated | 0.8589 | 4.0640 | 10.3071 | 0.0296 | 1.7808 | 0.0349 | 1.8157 | 0.4873 | 0.0328 | 0.5202 | 0.0000 | 2,731.3871 | 2,731.3871 | 0.1682 | 0.0000 | 2,735.5926 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------------------|-------------------------|-----------------|-----------------|------------------|------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Mid Rise | 728.00 | 715.68 | 656.32 | 2,446,681 | 2,446,681 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | | |
| General Office Building | 76.15 | 16.88 | 7.20 | 186,296 | 186,296 |
| High Turnover (Sit Down Restaurant) | 356.87 | 445.02 | 370.47 | 506,163 | 506,163 |
| Strip Mall | 575.76 | 575.76 | 578.58 | 1,096,211 | 1,096,211 |
| Strip Mall | 133.92 | 133.92 | 134.57 | 254,965 | 254,965 |
| Total | 1,870.70 | 1,887.25 | 1,747.14 | 4,490,316 | 4,490,316 |

4.3 Trip Type Information

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| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|--------------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Apartments Mid Rise | 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 |
| General Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| High Turnover (Sit Down | 16.60 | 8.40 | 6.90 | 8.50 | 72.50 | 19.00 | 37 | 20 | 43 |
| Strip Mall | 16.60 | 8.40 | 6.90 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |
| Strip Mall | 16.60 | 8.40 | 6.90 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| General Office Building | 0.548007 | 0.045751 | 0.200309 | 0.124119 | 0.017133 | 0.006025 | 0.018861 | 0.028423 | 0.002391 | 0.002469 | 0.004915 | 0.000672 | 0.000925 |
| Enclosed Parking with Elevator | 0.548007 | 0.045751 | 0.200309 | 0.124119 | 0.017133 | 0.006025 | 0.018861 | 0.028423 | 0.002391 | 0.002469 | 0.004915 | 0.000672 | 0.000925 |
| High Turnover (Sit Down Restaurant) | 0.548007 | 0.045751 | 0.200309 | 0.124119 | 0.017133 | 0.006025 | 0.018861 | 0.028423 | 0.002391 | 0.002469 | 0.004915 | 0.000672 | 0.000925 |
| Apartments Mid Rise | 0.548007 | 0.045751 | 0.200309 | 0.124119 | 0.017133 | 0.006025 | 0.018861 | 0.028423 | 0.002391 | 0.002469 | 0.004915 | 0.000672 | 0.000925 |
| Strip Mall | 0.548007 | 0.045751 | 0.200309 | 0.124119 | 0.017133 | 0.006025 | 0.018861 | 0.028423 | 0.002391 | 0.002469 | 0.004915 | 0.000672 | 0.000925 |
| Strip Mall | 0.548007 | 0.045751 | 0.200309 | 0.124119 | 0.017133 | 0.006025 | 0.018861 | 0.028423 | 0.002391 | 0.002469 | 0.004915 | 0.000672 | 0.000925 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

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| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|-------------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 531.3823 | 531.3823 | 0.0219 | 4.5400e-003 | 533.2834 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 592.4916 | 592.4916 | 0.0245 | 5.0600e-003 | 594.6113 |
| NaturalGas Mitigated | 9.4100e-003 | 0.0824 | 0.0492 | 5.1000e-004 | | 6.5000e-003 | 6.5000e-003 | | 6.5000e-003 | 6.5000e-003 | 0.0000 | 93.0894 | 93.0894 | 1.7800e-003 | 1.7100e-003 | 93.6426 |
| NaturalGas Unmitigated | 0.0108 | 0.0945 | 0.0555 | 5.9000e-004 | | 7.4600e-003 | 7.4600e-003 | | 7.4600e-003 | 7.4600e-003 | 0.0000 | 106.8601 | 106.8601 | 2.0500e-003 | 1.9600e-003 | 107.4951 |

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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 | | | | | |
| Apartments Mid Rise | 1.24991e+006 | 6.7400e-003 | 0.0576 | 0.0245 | 3.7000e-004 | | 4.6600e-003 | 4.6600e-003 | | 4.6600e-003 | 4.6600e-003 | 0.0000 | 66.7000 | 66.7000 | 1.2800e-003 | 1.2200e-003 | 67.0963 |
| 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 |
| General Office Building | 71713.8 | 3.9000e-004 | 3.5200e-003 | 2.9500e-003 | 2.0000e-005 | | 2.7000e-004 | 2.7000e-004 | | 2.7000e-004 | 2.7000e-004 | 0.0000 | 3.8269 | 3.8269 | 7.0000e-005 | 7.0000e-005 | 3.8497 |
| High Turnover (Sit Down Restaurant) | 649026 | 3.5000e-003 | 0.0318 | 0.0267 | 1.9000e-004 | | 2.4200e-003 | 2.4200e-003 | | 2.4200e-003 | 2.4200e-003 | 0.0000 | 34.6345 | 34.6345 | 6.6000e-004 | 6.3000e-004 | 34.8403 |
| Strip Mall | 25822.5 | 1.4000e-004 | 1.2700e-003 | 1.0600e-003 | 1.0000e-005 | | 1.0000e-004 | 1.0000e-004 | | 1.0000e-004 | 1.0000e-004 | 0.0000 | 1.3780 | 1.3780 | 3.0000e-005 | 3.0000e-005 | 1.3862 |
| Strip Mall | 6010.95 | 3.0000e-005 | 2.9000e-004 | 2.5000e-004 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | 0.0000 | 0.3208 | 0.3208 | 1.0000e-005 | 1.0000e-005 | 0.3227 |
| Total | | 0.0108 | 0.0945 | 0.0555 | 5.9000e-004 | | 7.4700e-003 | 7.4700e-003 | | 7.4700e-003 | 7.4700e-003 | 0.0000 | 106.8601 | 106.8601 | 2.0500e-003 | 1.9600e-003 | 107.4951 |

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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 | | | | | |
| Apartments Mid Rise | 1.05144e+006 | 5.6700e-003 | 0.0485 | 0.0206 | 3.1000e-004 | | 3.9200e-003 | 3.9200e-003 | | 3.9200e-003 | 3.9200e-003 | 0.0000 | 56.1086 | 56.1086 | 1.0800e-003 | 1.0300e-003 | 56.4420 |
| 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 |
| General Office Building | 52382.6 | 2.8000e-004 | 2.5700e-003 | 2.1600e-003 | 2.0000e-005 | | 2.0000e-004 | 2.0000e-004 | | 2.0000e-004 | 2.0000e-004 | 0.0000 | 2.7953 | 2.7953 | 5.0000e-005 | 5.0000e-005 | 2.8120 |
| High Turnover (Sit Down Restaurant) | 615044 | 3.3200e-003 | 0.0302 | 0.0253 | 1.8000e-004 | | 2.2900e-003 | 2.2900e-003 | | 2.2900e-003 | 2.2900e-003 | 0.0000 | 32.8211 | 32.8211 | 6.3000e-004 | 6.0000e-004 | 33.0161 |
| Strip Mall | 20739.4 | 1.1000e-004 | 1.0200e-003 | 8.5000e-004 | 1.0000e-005 | | 8.0000e-005 | 8.0000e-005 | | 8.0000e-005 | 8.0000e-005 | 0.0000 | 1.1067 | 1.1067 | 2.0000e-005 | 2.0000e-005 | 1.1133 |
| Strip Mall | 4827.7 | 3.0000e-005 | 2.4000e-004 | 2.0000e-004 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | 0.0000 | 0.2576 | 0.2576 | 0.0000 | 0.0000 | 0.2592 |
| Total | | 9.4100e-003 | 0.0824 | 0.0492 | 5.2000e-004 | | 6.5100e-003 | 6.5100e-003 | | 6.5100e-003 | 6.5100e-003 | 0.0000 | 93.0894 | 93.0894 | 1.7800e-003 | 1.7000e-003 | 93.6426 |

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5.3 Energy by Land Use - Electricity**Unmitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments Mid Rise | 471804 | 150.3270 | 6.2100e-003 | 1.2800e-003 | 150.8648 |
| Enclosed Parking with Elevator | 903160 | 287.7661 | 0.0119 | 2.4600e-003 | 288.7956 |
| General Office Building | 91321.9 | 29.0971 | 1.2000e-003 | 2.5000e-004 | 29.2012 |
| High Turnover (Sit Down Restaurant) | 125860 | 40.1017 | 1.6600e-003 | 3.4000e-004 | 40.2451 |
| Strip Mall | 216909 | 69.1119 | 2.8500e-003 | 5.9000e-004 | 69.3591 |
| Strip Mall | 50492 | 16.0878 | 6.6000e-004 | 1.4000e-004 | 16.1454 |
| Total | | 592.4916 | 0.0245 | 5.0600e-003 | 594.6113 |

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5.3 Energy by Land Use - Electricity**Mitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments Mid Rise | 465719 | 148.3882 | 6.1300e-003 | 1.2700e-003 | 148.9190 |
| Enclosed Parking with Elevator | 756082 | 240.9038 | 9.9500e-003 | 2.0600e-003 | 241.7656 |
| General Office Building | 82069.1 | 26.1490 | 1.0800e-003 | 2.2000e-004 | 26.2425 |
| High Turnover (Sit Down Restaurant) | 119172 | 37.9708 | 1.5700e-003 | 3.2000e-004 | 38.1066 |
| Strip Mall | 198505 | 63.2478 | 2.6100e-003 | 5.4000e-004 | 63.4741 |
| Strip Mall | 46207.8 | 14.7228 | 6.1000e-004 | 1.3000e-004 | 14.7755 |
| Total | | 531.3823 | 0.0220 | 4.5400e-003 | 533.2834 |

6.0 Area Detail**6.1 Mitigation Measures Area**

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| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|--------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.6078 | 0.0135 | 1.1654 | 6.0000e-005 | | 6.3800e-003 | 6.3800e-003 | | 6.3800e-003 | 6.3800e-003 | 0.0000 | 1.8957 | 1.8957 | 1.8800e-003 | 0.0000 | 1.9426 |
| Unmitigated | 0.6078 | 0.0135 | 1.1654 | 6.0000e-005 | | 6.3800e-003 | 6.3800e-003 | | 6.3800e-003 | 6.3800e-003 | 0.0000 | 1.8957 | 1.8957 | 1.8800e-003 | 0.0000 | 1.9426 |

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 | 0.0436 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.5283 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 0.0360 | 0.0135 | 1.1654 | 6.0000e-005 | | 6.3800e-003 | 6.3800e-003 | | 6.3800e-003 | 6.3800e-003 | 0.0000 | 1.8957 | 1.8957 | 1.8800e-003 | 0.0000 | 1.9426 |
| Total | 0.6078 | 0.0135 | 1.1654 | 6.0000e-005 | | 6.3800e-003 | 6.3800e-003 | | 6.3800e-003 | 6.3800e-003 | 0.0000 | 1.8957 | 1.8957 | 1.8800e-003 | 0.0000 | 1.9426 |

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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 | 0.0436 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.5283 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 0.0360 | 0.0135 | 1.1654 | 6.0000e-005 | | 6.3800e-003 | 6.3800e-003 | | 6.3800e-003 | 6.3800e-003 | 0.0000 | 1.8957 | 1.8957 | 1.8800e-003 | 0.0000 | 1.9426 |
| Total | 0.6078 | 0.0135 | 1.1654 | 6.0000e-005 | | 6.3800e-003 | 6.3800e-003 | | 6.3800e-003 | 6.3800e-003 | 0.0000 | 1.8957 | 1.8957 | 1.8800e-003 | 0.0000 | 1.9426 |

7.0 Water Detail**7.1 Mitigation Measures Water**

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| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|-------------|---------|
| Category | MT/yr | | | |
| Mitigated | 70.4485 | 0.3546 | 8.8800e-003 | 81.9607 |
| Unmitigated | 70.4485 | 0.3546 | 8.8800e-003 | 81.9607 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|---------------------|----------------|---------------|--------------------|----------------|
| Land Use | Mgal | MT/yr | | | |
| Apartments Mid Rise | 7.29725 / 4.60044 | 48.8747 | 0.2397 | 6.0100e-003 | 56.6589 |
| Enclosed Parking with Elevator | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 1.21925 / 0.747284 | 8.0905 | 0.0401 | 1.0000e-003 | 9.3909 |
| High Turnover (Sit Down Restaurant) | 0.85293 / 0.0544423 | 4.0019 | 0.0280 | 6.9000e-004 | 4.9057 |
| Strip Mall | 1.42886 / 0.875752 | 9.4814 | 0.0469 | 1.1800e-003 | 11.0053 |
| Total | | 70.4485 | 0.3546 | 8.8800e-003 | 81.9607 |

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7.2 Water by Land Use

Mitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|---------------------|----------------|---------------|--------------------|----------------|
| Land Use | Mgal | MT/yr | | | |
| Apartments Mid Rise | 7.29725 / 4.60044 | 48.8747 | 0.2397 | 6.0100e-003 | 56.6589 |
| Enclosed Parking with Elevator | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 1.21925 / 0.747284 | 8.0905 | 0.0401 | 1.0000e-003 | 9.3909 |
| High Turnover (Sit Down Restaurant) | 0.85293 / 0.0544423 | 4.0019 | 0.0280 | 6.9000e-004 | 4.9057 |
| Strip Mall | 1.42886 / 0.875752 | 9.4814 | 0.0469 | 1.1800e-003 | 11.0053 |
| Total | | 70.4485 | 0.3546 | 8.8800e-003 | 81.9607 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

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Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|---------|
| | MT/yr | | | |
| Mitigated | 22.6518 | 1.3387 | 0.0000 | 56.1188 |
| Unmitigated | 22.6518 | 1.3387 | 0.0000 | 56.1188 |

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use | tons | MT/yr | | | |
| Apartments Mid Rise | 51.52 | 10.4581 | 0.6181 | 0.0000 | 25.9095 |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 6.38 | 1.2951 | 0.0765 | 0.0000 | 3.2085 |
| High Turnover (Sit Down Restaurant) | 33.44 | 6.7880 | 0.4012 | 0.0000 | 16.8170 |
| Strip Mall | 20.25 | 4.1106 | 0.2429 | 0.0000 | 10.1838 |
| Total | | 22.6518 | 1.3387 | 0.0000 | 56.1188 |

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8.2 Waste by Land Use

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use | tons | MT/yr | | | |
| Apartments Mid Rise | 51.52 | 10.4581 | 0.6181 | 0.0000 | 25.9095 |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 6.38 | 1.2951 | 0.0765 | 0.0000 | 3.2085 |
| High Turnover (Sit Down Restaurant) | 33.44 | 6.7880 | 0.4012 | 0.0000 | 16.8170 |
| Strip Mall | 20.25 | 4.1106 | 0.2429 | 0.0000 | 10.1838 |
| Total | | 22.6518 | 1.3387 | 0.0000 | 56.1188 |

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 |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

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User Defined Equipment

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

11.0 Vegetation

Greenhouse Gas Emission Worksheet
N2O Mobile Emissions

8555 Santa Monica Blvd - Alternative 7

From CalEEMod Vehicle Fleet Mix Output:

Annual VMT: 4,490,316

| Vehicle Type | Percent Type | CH4 Emission Factor (g/mile)* | CH4 Emission (g/mile)** | N2O Emission Factor (g/mile)* | N2O Emission (g/mile)** |
|-------------------------------------|---------------|-------------------------------|-------------------------|-------------------------------|-------------------------|
| Light Auto | 53.1% | 0.04 | 0.0212361 | 0.04 | 0.021236 |
| Light Truck < 3750 lbs | 5.8% | 0.05 | 0.0028921 | 0.06 | 0.00347 |
| Light Truck 3751-5750 lbs | 17.9% | 0.05 | 0.008935 | 0.06 | 0.010722 |
| Med Truck 5751-8500 lbs | 12.5% | 0.12 | 0.0149748 | 0.2 | 0.024958 |
| Lite-Heavy Truck 8501-10,000 lbs | 3.9% | 0.12 | 0.0046876 | 0.2 | 0.007813 |
| Lite-Heavy Truck 10,001-14,000 lbs | 0.6% | 0.09 | 0.0005668 | 0.125 | 0.000787 |
| Med-Heavy Truck 14,001-33,000 lbs | 1.7% | 0.06 | 0.0010171 | 0.05 | 0.000848 |
| Heavy-Heavy Truck 33,001-60,000 lbs | 3.4% | 0.06 | 0.0020345 | 0.05 | 0.001695 |
| Other Bus | 0.2% | 0.06 | 0.0001498 | 0.05 | 0.000125 |
| Urban Bus | 0.3% | 0.06 | 0.0001889 | 0.05 | 0.000157 |
| Motorcycle | 0.4% | 0.09 | 0.000332 | 0.01 | 3.69E-05 |
| School Bus | 0.1% | 0.06 | 3.216E-05 | 0.05 | 2.68E-05 |
| Motor Home | 0.2% | 0.09 | 0.000151 | 0.125 | 0.00021 |
| Total | 100.0% | | 0.0571977 | | 0.072085 |

Total Emissions (metric tons) =

Emission Factor by Vehicle Mix (g/mi) x Annual VMT(mi) x 0.000001 metric tons/g

Conversion to Carbon Dioxide Equivalency (CO2e) Units based on Global Warming Potential (GWP)

CH4 21 GWP
 N2O 310 GWP
 1 ton (short, US) = 0.90718474 metric ton

Annual Mobile Emissions:

| | Total Emissions | Total CO2e units |
|-----------------------|--------------------------------|-------------------------|
| N2O Emissions: | 0.3237 metric tons N2O | 100.34 metric tons CO2e |
| Project Total: | 100.34 metric tons CO2e | |

References

- * from Table C.4: Methane and Nitrous Oxide Emission Factors for Mobile Sources by Vehicle and Fuel Type (g/mile). in California Climate Action Registry General Reporting Protocol, Reporting Entity-Wide Greenhouse Gas Emissions, Version 3.1, January 2009. Assume Model year 2000-present, gasoline fueled.
- ** Source: California Climate Action Registry General Reporting Protocol, Reporting Entity-Wide Greenhouse Gas Emissions, Version 3.1, January 2009.
- *** From URBEMIS 2007 results for mobile sources