

Appendix F

Greenhouse Gas Emissions Estimates

California Emissions Estimator Model

Greenhouse Gas Emissions Estimates – MXD/TDM

4th and Hewitt Project MXD-TDM - Los Angeles-South Coast County, Annual

4th and Hewitt Project MXD-TDM
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 | 327.98 | 1000sqft | 1.31 | 327,980.00 | 0 |
| User Defined Commercial | 1.00 | User Defined Unit | 0.00 | 0.00 | 0 |
| Enclosed Parking with Elevator | 660.00 | Space | 0.00 | 254,881.00 | 0 |
| Other Non-Asphalt Surfaces | 11.10 | 1000sqft | 0.00 | 11,098.00 | 0 |
| High Turnover (Sit Down Restaurant) | 8.15 | 1000sqft | 0.00 | 8,150.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|---|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33 |
| Climate Zone | 11 | | | Operational Year | 2023 |
| Utility Company | Los Angeles Department of Water & Power | | | | |
| CO2 Intensity (lb/MWhr) | 1227.89 | 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 -

Land Use - 1.31 ac site. 327,980 sf office, 8,150 sf sit down restaurant, 660 space parking garage 254,881 sf, 11,098 sf non-asphalt surface. User Defined Commercial

Construction Phase - 25 demo, 70 grad, 547 bldg, 70 pave and coat overlap bldg.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - 3 backhoe, excavator

Off-road Equipment -

Off-road Equipment - no prep

Trips and VMT - 10,744 soil export trips (5,372 loads), 218 demo haul trips (109 loads). 27 mi dist.

Demolition - 1,822 tons building and asphalt demo

Grading - 75,200 cy export

Vehicle Trips - 7.2 vmt/emp trip

Water And Wastewater - Per WSA Water demand. Office/restaruant combined

Construction Off-road Equipment Mitigation - dust control and Tier 4 equipment

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Energy Mitigation -

Energy Use - 2019 Title 24

Solid Waste - Required diversion

| Table Name | Column Name | Default Value | New Value |
|-------------------------|----------------------------|---------------|-----------|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |

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| | | | |
|-------------------------|----------------------------|------------|--------------|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 8.00 |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstructionPhase | NumDays | 10.00 | 70.00 |
| tblConstructionPhase | NumDays | 200.00 | 547.00 |
| tblConstructionPhase | NumDays | 20.00 | 25.00 |
| tblConstructionPhase | NumDays | 4.00 | 70.00 |
| tblConstructionPhase | NumDays | 10.00 | 70.00 |
| tblConstructionPhase | NumDays | 2.00 | 0.00 |
| tblEnergyUse | LightingElect | 1.75 | 1.22 |
| tblEnergyUse | LightingElect | 3.77 | 2.64 |
| tblEnergyUse | LightingElect | 7.87 | 5.50 |
| tblEnergyUse | T24E | 3.92 | 2.74 |
| tblEnergyUse | T24E | 4.60 | 3.22 |
| tblEnergyUse | T24E | 8.11 | 5.68 |
| tblGrading | AcresOfGrading | 26.25 | 1.50 |
| tblGrading | AcresOfGrading | 0.00 | 1.00 |
| tblGrading | MaterialExported | 0.00 | 75,200.00 |
| tblLandUse | LandUseSquareFeet | 264,000.00 | 254,881.00 |

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| | | | |
|---------------------|----------------------------|-----------|-----------|
| tblLandUse | LandUseSquareFeet | 11,100.00 | 11,098.00 |
| tblLandUse | LotAcreage | 7.53 | 1.31 |
| tblLandUse | LotAcreage | 5.94 | 0.00 |
| tblLandUse | LotAcreage | 0.25 | 0.00 |
| tblLandUse | LotAcreage | 0.19 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblSolidWaste | SolidWasteGenerationRate | 305.02 | 76.26 |
| tblSolidWaste | SolidWasteGenerationRate | 96.99 | 24.25 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 27.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 27.00 |
| tblTripsAndVMT | HaulingTripNumber | 180.00 | 218.00 |
| tblTripsAndVMT | HaulingTripNumber | 9,400.00 | 10,744.00 |
| tblVehicleTrips | CC_TL | 8.40 | 0.00 |
| tblVehicleTrips | CNW_TL | 6.90 | 0.00 |
| tblVehicleTrips | CW_TL | 16.60 | 7.20 |
| tblVehicleTrips | CW_TTP | 0.00 | 100.00 |
| tblVehicleTrips | PR_TP | 0.00 | 100.00 |
| tblVehicleTrips | ST_TR | 2.46 | 0.00 |
| tblVehicleTrips | ST_TR | 158.37 | 0.00 |
| tblVehicleTrips | ST_TR | 0.00 | 2,756.00 |
| tblVehicleTrips | SU_TR | 1.05 | 0.00 |
| tblVehicleTrips | SU_TR | 131.84 | 0.00 |
| tblVehicleTrips | SU_TR | 0.00 | 2,756.00 |
| tblVehicleTrips | WD_TR | 11.03 | 0.00 |

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| | | | |
|-----------------|---------------------|---------------|---------------|
| tblVehicleTrips | WD_TR | 127.15 | 0.00 |
| tblVehicleTrips | WD_TR | 0.00 | 2,756.00 |
| tblWater | IndoorWaterUseRate | 58,293,114.67 | 15,919,475.00 |
| tblWater | IndoorWaterUseRate | 2,473,799.76 | 0.00 |
| tblWater | OutdoorWaterUseRate | 0.00 | 61,320.00 |
| tblWater | OutdoorWaterUseRate | 35,728,038.02 | 139,430.00 |
| tblWater | OutdoorWaterUseRate | 157,902.11 | 0.00 |

2.0 Emissions Summary

2.1 Overall Construction
Unmitigated Construction

| Year | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBIO- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| 2021 | 0.2339 | 3.4590 | 1.7613 | 8.6900e-003 | 0.4007 | 0.0710 | 0.4717 | 0.1500 | 0.0666 | 0.2166 | 0.0000 | 827.2025 | 827.2025 | 0.0813 | 0.0000 | 829.2347 |
| 2022 | 0.3672 | 2.9186 | 2.9768 | 9.1300e-003 | 0.3945 | 0.0813 | 0.4758 | 0.1066 | 0.0784 | 0.1851 | 0.0000 | 823.3929 | 823.3929 | 0.0674 | 0.0000 | 825.0782 |
| 2023 | 1.9302 | 2.5111 | 2.9768 | 8.7300e-003 | 0.3739 | 0.0762 | 0.4501 | 0.1010 | 0.0731 | 0.1741 | 0.0000 | 785.5297 | 785.5297 | 0.0707 | 0.0000 | 787.2970 |
| Maximum | 1.9302 | 3.4590 | 2.9768 | 9.1300e-003 | 0.4007 | 0.0813 | 0.4758 | 0.1500 | 0.0784 | 0.2166 | 0.0000 | 827.2025 | 827.2025 | 0.0813 | 0.0000 | 829.2347 |
| Year | tons/yr | | | | | | | | | | | | | | | |
| CO2e | MT/yr | | | | | | | | | | | | | | | |

Mitigated Construction

| Year | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBIO- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| 2021 | 0.1516 | 2.4798 | 1.8269 | 8.6900e-003 | 0.3003 | 0.0222 | 0.3224 | 0.1002 | 0.0218 | 0.1220 | 0.0000 | 827.2023 | 827.2023 | 0.0813 | 0.0000 | 829.2345 |
| 2022 | 0.3162 | 2.2984 | 3.0566 | 9.1300e-003 | 0.3945 | 0.0504 | 0.4449 | 0.1066 | 0.0502 | 0.1568 | 0.0000 | 823.3927 | 823.3927 | 0.0674 | 0.0000 | 825.0779 |
| 2023 | 1.8774 | 1.8743 | 3.0802 | 8.7300e-003 | 0.3739 | 0.0449 | 0.4188 | 0.1010 | 0.0445 | 0.1454 | 0.0000 | 785.5294 | 785.5294 | 0.0707 | 0.0000 | 787.2967 |
| Maximum | 1.8774 | 2.4798 | 3.0802 | 9.1300e-003 | 0.3945 | 0.0504 | 0.4449 | 0.1066 | 0.0502 | 0.1568 | 0.0000 | 827.2023 | 827.2023 | 0.0813 | 0.0000 | 829.2345 |
| Year | tons/yr | | | | | | | | | | | | | | | |
| CO2e | MT/yr | | | | | | | | | | | | | | | |

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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 | 7.35 | 25.16 | -3.23 | 0.00 | 8.59 | 48.57 | 15.13 | 13.93 | 46.61 | 26.31 | 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 | 6-7-2021 | 9-6-2021 | 1.7855 | 1.1865 |
| 2 | 9-7-2021 | 12-6-2021 | 1.5113 | 1.1326 |
| 3 | 12-7-2021 | 3-6-2022 | 0.8271 | 0.6538 |
| 4 | 3-7-2022 | 6-6-2022 | 0.8242 | 0.6546 |
| 5 | 6-7-2022 | 9-6-2022 | 0.8229 | 0.6532 |
| 6 | 9-7-2022 | 12-6-2022 | 0.8176 | 0.6498 |
| 7 | 12-7-2022 | 3-6-2023 | 0.7327 | 0.5781 |
| 8 | 3-7-2023 | 6-6-2023 | 0.7154 | 0.5618 |
| 9 | 6-7-2023 | 9-6-2023 | 1.2766 | 1.0794 |
| 10 | 9-7-2023 | 9-30-2023 | 0.6517 | 0.5756 |
| | | Highest | 1.7855 | 1.1865 |

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2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 1.3925 | 1.2000e-004 | 0.0129 | 0.0000 | | 5.0000e-005 | 5.0000e-005 | | 5.0000e-005 | 5.0000e-005 | 0.0000 | 0.0250 | 0.0250 | 7.0000e-005 | 0.0000 | 0.0267 |
| Energy | 0.0286 | 0.2596 | 0.2180 | 1.5600e-003 | | 0.0197 | 0.0197 | | 0.0197 | 0.0197 | 0.0000 | 2,964.6677 | 2,964.6677 | 0.0688 | 0.0183 | 2,971.8360 |
| Mobile | 0.6977 | 3.1102 | 8.8355 | 0.0326 | 2.7414 | 0.0249 | 2.7663 | 0.7348 | 0.0232 | 0.7580 | 0.0000 | 3,012.1586 | 3,012.1586 | 0.1509 | 0.0000 | 3,015.9321 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 20.4026 | 0.0000 | 20.4026 | 1.2058 | 0.0000 | 50.5466 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 5.0505 | 116.6934 | 121.7439 | 0.5215 | 0.0128 | 138.6012 |
| Total | 2.1188 | 3.3699 | 9.0664 | 0.0341 | 2.7414 | 0.0447 | 2.7861 | 0.7348 | 0.0430 | 0.7778 | 25.4531 | 6,093.5447 | 6,118.9978 | 1.9470 | 0.0311 | 6,176.9426 |

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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 | 1.3925 | 1.2000e-004 | 0.0129 | 0.0000 | | 5.0000e-005 | 5.0000e-005 | | 5.0000e-005 | 5.0000e-005 | 0.0000 | 0.0250 | 0.0250 | 7.0000e-005 | 0.0000 | 0.0267 |
| Energy | 0.0286 | 0.2596 | 0.2180 | 1.5600e-003 | | 0.0197 | 0.0197 | | 0.0197 | 0.0197 | 0.0000 | 2,964.6677 | 2,964.6677 | 0.0688 | 0.0183 | 2,971.8360 |
| Mobile | 0.6977 | 3.1102 | 8.8355 | 0.0326 | 2.7414 | 0.0249 | 2.7663 | 0.7348 | 0.0232 | 0.7580 | 0.0000 | 3,012.1586 | 3,012.1586 | 0.1509 | 0.0000 | 3,015.9321 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 20.4026 | 0.0000 | 20.4026 | 1.2058 | 0.0000 | 50.5466 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 5.0505 | 116.6934 | 121.7439 | 0.5215 | 0.0128 | 138.6012 |
| Total | 2.1188 | 3.3699 | 9.0664 | 0.0341 | 2.7414 | 0.0447 | 2.7861 | 0.7348 | 0.0430 | 0.7778 | 25.4531 | 6,093.5447 | 6,118.9978 | 1.9470 | 0.0311 | 6,176.9426 |

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

3.0 Construction Detail

Construction Phase

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| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Demolition | Demolition | 6/7/2021 | 7/9/2021 | 5 | 25 | |
| 2 | Site Preparation | Site Preparation | 7/12/2021 | 7/11/2021 | 5 | 0 | |
| 3 | Grading | Grading | 7/12/2021 | 10/15/2021 | 5 | 70 | |
| 4 | Building Construction | Building Construction | 10/18/2021 | 11/21/2023 | 5 | 547 | |
| 5 | Paving | Paving | 8/9/2023 | 11/14/2023 | 5 | 70 | |
| 6 | Architectural Coating | Architectural Coating | 8/9/2023 | 11/14/2023 | 5 | 70 | |

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 504,195; Non-Residential Outdoor: 168,065; Striped Parking Area: 15,959 (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 |
| Site Preparation | Graders | 0 | 8.00 | 187 | 0.41 |
| Site Preparation | Rubber Tired Dozers | 0 | 7.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 0 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 1 | 6.00 | 158 | 0.38 |
| Grading | Graders | 1 | 6.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 6.00 | 247 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 3 | 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 |
| 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 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

Trips and VMT

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| 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 | 218.00 | 14.70 | 6.90 | 27.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 0 | 0.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 6 | 15.00 | 0.00 | 10,744.00 | 14.70 | 6.90 | 27.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 7 | 220.00 | 99.00 | 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 | 44.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0195 | 0.0000 | 0.0195 | 2.9500e-003 | 0.0000 | 2.9500e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0249 | 0.2462 | 0.1812 | 3.0000e-004 | | 0.0130 | 0.0130 | | 0.0121 | 0.0121 | 0.0000 | 26.3392 | 26.3392 | 6.7400e-003 | 0.0000 | 26.5076 |
| Total | 0.0249 | 0.2462 | 0.1812 | 3.0000e-004 | 0.0195 | 0.0130 | 0.0325 | 2.9500e-003 | 0.0121 | 0.0151 | 0.0000 | 26.3392 | 26.3392 | 6.7400e-003 | 0.0000 | 26.5076 |

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3.2 Demolition - 2021

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 1.1800e-003 | 0.0372 | 8.9900e-003 | 1.1000e-004 | 2.5300e-003 | 1.2000e-004 | 2.6500e-003 | 6.9000e-004 | 1.2000e-004 | 8.1000e-004 | 0.0000 | 10.8429 | 10.8429 | 7.2000e-004 | 0.0000 | 10.8609 |
| 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 | 7.0000e-004 | 5.4000e-004 | 6.1500e-003 | 2.0000e-005 | 1.7800e-003 | 1.0000e-005 | 1.8000e-003 | 4.7000e-004 | 1.0000e-005 | 4.9000e-004 | 0.0000 | 1.6070 | 1.6070 | 5.0000e-005 | 0.0000 | 1.6082 |
| Total | 1.8800e-003 | 0.0378 | 0.0151 | 1.3000e-004 | 4.3100e-003 | 1.3000e-004 | 4.4500e-003 | 1.1600e-003 | 1.3000e-004 | 1.3000e-003 | 0.0000 | 12.4499 | 12.4499 | 7.7000e-004 | 0.0000 | 12.4691 |

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 | | | | | 8.7700e-003 | 0.0000 | 8.7700e-003 | 1.3300e-003 | 0.0000 | 1.3300e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 7.5400e-003 | 0.0498 | 0.1817 | 3.0000e-004 | | 2.5300e-003 | 2.5300e-003 | | 2.5300e-003 | 2.5300e-003 | 0.0000 | 26.3391 | 26.3391 | 6.7400e-003 | 0.0000 | 26.5075 |
| Total | 7.5400e-003 | 0.0498 | 0.1817 | 3.0000e-004 | 8.7700e-003 | 2.5300e-003 | 0.0113 | 1.3300e-003 | 2.5300e-003 | 3.8600e-003 | 0.0000 | 26.3391 | 26.3391 | 6.7400e-003 | 0.0000 | 26.5075 |

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3.3 Site Preparation - 2021

Mitigated Construction Off-Site

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

3.4 Grading - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.1631 | 0.0000 | 0.1631 | 0.0876 | 0.0000 | 0.0876 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0626 | 0.6742 | 0.4459 | 8.2000e-004 | | 0.0319 | 0.0319 | | 0.0294 | 0.0294 | 0.0000 | 71.9737 | 71.9737 | 0.0233 | 0.0000 | 72.5557 |
| Total | 0.0626 | 0.6742 | 0.4459 | 8.2000e-004 | 0.1631 | 0.0319 | 0.1950 | 0.0876 | 0.0294 | 0.1170 | 0.0000 | 71.9737 | 71.9737 | 0.0233 | 0.0000 | 72.5557 |

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3.4 Grading - 2021

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0579 | 1.8351 | 0.4429 | 5.4300e-003 | 0.1246 | 5.9300e-003 | 0.1305 | 0.0342 | 5.6800e-003 | 0.0399 | 0.0000 | 534.3841 | 534.3841 | 0.0356 | 0.0000 | 535.2732 |
| 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 | 2.2600e-003 | 1.7600e-003 | 0.0199 | 6.0000e-005 | 5.7500e-003 | 5.0000e-005 | 5.8000e-003 | 1.5300e-003 | 4.0000e-005 | 1.5700e-003 | 0.0000 | 5.1918 | 5.1918 | 1.5000e-004 | 0.0000 | 5.1956 |
| Total | 0.0602 | 1.8369 | 0.4627 | 5.4900e-003 | 0.1304 | 5.9800e-003 | 0.1363 | 0.0357 | 5.7200e-003 | 0.0415 | 0.0000 | 539.5760 | 539.5760 | 0.0357 | 0.0000 | 540.4689 |

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 | | | | | 0.0734 | 0.0000 | 0.0734 | 0.0394 | 0.0000 | 0.0394 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0100 | 0.0435 | 0.4968 | 8.2000e-004 | | 1.3400e-003 | 1.3400e-003 | | 1.3400e-003 | 1.3400e-003 | 0.0000 | 71.9736 | 71.9736 | 0.0233 | 0.0000 | 72.5556 |
| Total | 0.0100 | 0.0435 | 0.4968 | 8.2000e-004 | 0.0734 | 1.3400e-003 | 0.0748 | 0.0394 | 1.3400e-003 | 0.0408 | 0.0000 | 71.9736 | 71.9736 | 0.0233 | 0.0000 | 72.5556 |

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3.4 Grading - 2021

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0579 | 1.8351 | 0.4429 | 5.4300e-003 | 0.1246 | 5.9300e-003 | 0.1305 | 0.0342 | 5.6800e-003 | 0.0399 | 0.0000 | 534.3841 | 534.3841 | 0.0356 | 0.0000 | 535.2732 |
| 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 | 2.2600e-003 | 1.7600e-003 | 0.0199 | 6.0000e-005 | 5.7500e-003 | 5.0000e-005 | 5.8000e-003 | 1.5300e-003 | 4.0000e-005 | 1.5700e-003 | 0.0000 | 5.1918 | 5.1918 | 1.5000e-004 | 0.0000 | 5.1956 |
| Total | 0.0602 | 1.8369 | 0.4627 | 5.4900e-003 | 0.1304 | 5.9800e-003 | 0.1363 | 0.0357 | 5.7200e-003 | 0.0415 | 0.0000 | 539.5760 | 539.5760 | 0.0357 | 0.0000 | 540.4689 |

3.5 Building Construction - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0498 | 0.3750 | 0.3547 | 6.1000e-004 | | 0.0188 | 0.0188 | | 0.0182 | 0.0182 | 0.0000 | 49.9256 | 49.9256 | 8.9100e-003 | 0.0000 | 50.1484 |
| Total | 0.0498 | 0.3750 | 0.3547 | 6.1000e-004 | | 0.0188 | 0.0188 | | 0.0182 | 0.0182 | 0.0000 | 49.9256 | 49.9256 | 8.9100e-003 | 0.0000 | 50.1484 |

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3.5 Building Construction - 2021

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|--------------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 8.4500e-003 | 0.2687 | 0.0728 | 6.9000e-004 | 0.0172 | 5.5000e-004 | 0.0177 | 4.9500e-003 | 5.2000e-004 | 5.4700e-003 | 0.0000 | 67.1087 | 67.1087 | 4.1200e-003 | 0.0000 | 67.2116 |
| Worker | 0.0260 | 0.0203 | 0.2288 | 6.6000e-004 | 0.0663 | 5.5000e-004 | 0.0668 | 0.0176 | 5.0000e-004 | 0.0181 | 0.0000 | 59.8295 | 59.8295 | 1.7600e-003 | 0.0000 | 59.8735 |
| Total | 0.0345 | 0.2890 | 0.3016 | 1.3500e-003 | 0.0835 | 1.1000e-003 | 0.0845 | 0.0226 | 1.0200e-003 | 0.0236 | 0.0000 | 126.9382 | 126.9382 | 5.8800e-003 | 0.0000 | 127.0851 |

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 | 0.0374 | 0.2230 | 0.3690 | 6.1000e-004 | | 0.0111 | 0.0111 | | 0.0111 | 0.0111 | 0.0000 | 49.9255 | 49.9255 | 8.9100e-003 | 0.0000 | 50.1484 |
| Total | 0.0374 | 0.2230 | 0.3690 | 6.1000e-004 | | 0.0111 | 0.0111 | | 0.0111 | 0.0111 | 0.0000 | 49.9255 | 49.9255 | 8.9100e-003 | 0.0000 | 50.1484 |

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3.5 Building Construction - 2021

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|--------------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 8.4500e-003 | 0.2687 | 0.0728 | 6.9000e-004 | 0.0172 | 5.5000e-004 | 0.0177 | 4.9500e-003 | 5.2000e-004 | 5.4700e-003 | 0.0000 | 67.1087 | 67.1087 | 4.1200e-003 | 0.0000 | 67.2116 |
| Worker | 0.0260 | 0.0203 | 0.2288 | 6.6000e-004 | 0.0663 | 5.5000e-004 | 0.0668 | 0.0176 | 5.0000e-004 | 0.0181 | 0.0000 | 59.8295 | 59.8295 | 1.7600e-003 | 0.0000 | 59.8735 |
| Total | 0.0345 | 0.2890 | 0.3016 | 1.3500e-003 | 0.0835 | 1.1000e-003 | 0.0845 | 0.0226 | 1.0200e-003 | 0.0236 | 0.0000 | 126.9382 | 126.9382 | 5.8800e-003 | 0.0000 | 127.0851 |

3.5 Building Construction - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.2143 | 1.6254 | 1.6544 | 2.8700e-003 | | 0.0766 | 0.0766 | | 0.0740 | 0.0740 | 0.0000 | 236.0500 | 236.0500 | 0.0411 | 0.0000 | 237.0778 |
| Total | 0.2143 | 1.6254 | 1.6544 | 2.8700e-003 | | 0.0766 | 0.0766 | | 0.0740 | 0.0740 | 0.0000 | 236.0500 | 236.0500 | 0.0411 | 0.0000 | 237.0778 |

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3.5 Building Construction - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0375 | 1.2067 | 0.3258 | 3.2400e-003 | 0.0811 | 2.2600e-003 | 0.0833 | 0.0234 | 2.1700e-003 | 0.0256 | 0.0000 | 314.4547 | 314.4547 | 0.0188 | 0.0000 | 314.9242 |
| Worker | 0.1154 | 0.0865 | 0.9965 | 3.0200e-003 | 0.3134 | 2.5000e-003 | 0.3159 | 0.0832 | 2.3000e-003 | 0.0855 | 0.0000 | 272.8883 | 272.8883 | 7.5200e-003 | 0.0000 | 273.0762 |
| Total | 0.1529 | 1.2932 | 1.3223 | 6.2600e-003 | 0.3945 | 4.7600e-003 | 0.3992 | 0.1066 | 4.4700e-003 | 0.1111 | 0.0000 | 587.3430 | 587.3430 | 0.0263 | 0.0000 | 588.0004 |

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 | 0.1633 | 1.0052 | 1.7343 | 2.8700e-003 | | 0.0457 | 0.0457 | | 0.0457 | 0.0457 | 0.0000 | 236.0497 | 236.0497 | 0.0411 | 0.0000 | 237.0775 |
| Total | 0.1633 | 1.0052 | 1.7343 | 2.8700e-003 | | 0.0457 | 0.0457 | | 0.0457 | 0.0457 | 0.0000 | 236.0497 | 236.0497 | 0.0411 | 0.0000 | 237.0775 |

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3.5 Building Construction - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0375 | 1.2067 | 0.3258 | 3.2400e-003 | 0.0811 | 2.2600e-003 | 0.0833 | 0.0234 | 2.1700e-003 | 0.0256 | 0.0000 | 314.4547 | 314.4547 | 0.0188 | 0.0000 | 314.9242 |
| Worker | 0.1154 | 0.0865 | 0.9965 | 3.0200e-003 | 0.3134 | 2.5000e-003 | 0.3159 | 0.0832 | 2.3000e-003 | 0.0855 | 0.0000 | 272.8883 | 272.8883 | 7.5200e-003 | 0.0000 | 273.0762 |
| Total | 0.1529 | 1.2932 | 1.3223 | 6.2600e-003 | 0.3945 | 4.7600e-003 | 0.3992 | 0.1066 | 4.4700e-003 | 0.1111 | 0.0000 | 587.3430 | 587.3430 | 0.0263 | 0.0000 | 588.0004 |

3.5 Building Construction - 2023

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 | 0.1767 | 1.3584 | 1.4629 | 2.5600e-003 | | 0.0597 | 0.0597 | | 0.0576 | 0.0576 | 0.0000 | 210.6550 | 210.6550 | 0.0358 | 0.0000 | 211.5493 |
| Total | 0.1767 | 1.3584 | 1.4629 | 2.5600e-003 | | 0.0597 | 0.0597 | | 0.0576 | 0.0576 | 0.0000 | 210.6550 | 210.6550 | 0.0358 | 0.0000 | 211.5493 |

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3.5 Building Construction - 2023

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 | 0.8135 | 0.2608 | 2.8000e-003 | 0.0723 | 9.5000e-004 | 0.0733 | 0.0209 | 9.1000e-004 | 0.0218 | 0.0000 | 271.8061 | 271.8061 | 0.0148 | 0.0000 | 272.1764 |
| Worker | 0.0968 | 0.0699 | 0.8177 | 2.5900e-003 | 0.2797 | 2.1700e-003 | 0.2818 | 0.0743 | 2.0000e-003 | 0.0763 | 0.0000 | 234.5899 | 234.5899 | 6.0400e-003 | 0.0000 | 234.7409 |
| Total | 0.1217 | 0.8834 | 1.0785 | 5.3900e-003 | 0.3520 | 3.1200e-003 | 0.3551 | 0.0952 | 2.9100e-003 | 0.0981 | 0.0000 | 506.3960 | 506.3960 | 0.0209 | 0.0000 | 506.9173 |

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 | 0.1352 | 0.8575 | 1.5405 | 2.5600e-003 | | 0.0356 | 0.0356 | | 0.0356 | 0.0356 | 0.0000 | 210.6547 | 210.6547 | 0.0358 | 0.0000 | 211.5490 |
| Total | 0.1352 | 0.8575 | 1.5405 | 2.5600e-003 | | 0.0356 | 0.0356 | | 0.0356 | 0.0356 | 0.0000 | 210.6547 | 210.6547 | 0.0358 | 0.0000 | 211.5490 |

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3.5 Building Construction - 2023

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 | 0.8135 | 0.2608 | 2.8000e-003 | 0.0723 | 9.5000e-004 | 0.0733 | 0.0209 | 9.1000e-004 | 0.0218 | 0.0000 | 271.8061 | 271.8061 | 0.0148 | 0.0000 | 272.1764 |
| Worker | 0.0968 | 0.0699 | 0.8177 | 2.5900e-003 | 0.2797 | 2.1700e-003 | 0.2818 | 0.0743 | 2.0000e-003 | 0.0763 | 0.0000 | 234.5899 | 234.5899 | 6.0400e-003 | 0.0000 | 234.7409 |
| Total | 0.1217 | 0.8834 | 1.0785 | 5.3900e-003 | 0.3520 | 3.1200e-003 | 0.3551 | 0.0952 | 2.9100e-003 | 0.0981 | 0.0000 | 506.3960 | 506.3960 | 0.0209 | 0.0000 | 506.9173 |

3.6 Paving - 2023

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 | 0.0226 | 0.2183 | 0.3081 | 4.7000e-004 | | 0.0108 | 0.0108 | | 9.9600e-003 | 9.9600e-003 | 0.0000 | 41.2035 | 41.2035 | 0.0131 | 0.0000 | 41.5300 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0226 | 0.2183 | 0.3081 | 4.7000e-004 | | 0.0108 | 0.0108 | | 9.9600e-003 | 9.9600e-003 | 0.0000 | 41.2035 | 41.2035 | 0.0131 | 0.0000 | 41.5300 |

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3.6 Paving - 2023

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 | 1.7300e-003 | 1.2500e-003 | 0.0146 | 5.0000e-005 | 4.9900e-003 | 4.0000e-005 | 5.0200e-003 | 1.3200e-003 | 4.0000e-005 | 1.3600e-003 | 0.0000 | 4.1825 | 4.1825 | 1.1000e-004 | 0.0000 | 4.1852 |
| Total | 1.7300e-003 | 1.2500e-003 | 0.0146 | 5.0000e-005 | 4.9900e-003 | 4.0000e-005 | 5.0200e-003 | 1.3200e-003 | 4.0000e-005 | 1.3600e-003 | 0.0000 | 4.1825 | 4.1825 | 1.1000e-004 | 0.0000 | 4.1852 |

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 | 0.0114 | 0.0824 | 0.3338 | 4.7000e-004 | | 3.6100e-003 | 3.6100e-003 | | 3.4000e-003 | 3.4000e-003 | 0.0000 | 41.2035 | 41.2035 | 0.0131 | 0.0000 | 41.5300 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0114 | 0.0824 | 0.3338 | 4.7000e-004 | | 3.6100e-003 | 3.6100e-003 | | 3.4000e-003 | 3.4000e-003 | 0.0000 | 41.2035 | 41.2035 | 0.0131 | 0.0000 | 41.5300 |

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3.6 Paving - 2023

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 | 1.7300e-003 | 1.2500e-003 | 0.0146 | 5.0000e-005 | 4.9900e-003 | 4.0000e-005 | 5.0200e-003 | 1.3200e-003 | 4.0000e-005 | 1.3600e-003 | 0.0000 | 4.1825 | 4.1825 | 1.1000e-004 | 0.0000 | 4.1852 |
| Total | 1.7300e-003 | 1.2500e-003 | 0.0146 | 5.0000e-005 | 4.9900e-003 | 4.0000e-005 | 5.0200e-003 | 1.3200e-003 | 4.0000e-005 | 1.3600e-003 | 0.0000 | 4.1825 | 4.1825 | 1.1000e-004 | 0.0000 | 4.1852 |

3.7 Architectural Coating - 2023

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 | 1.5950 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 6.7100e-003 | 0.0456 | 0.0634 | 1.0000e-004 | | 2.4800e-003 | 2.4800e-003 | | 2.4800e-003 | 2.4800e-003 | 0.0000 | 8.9364 | 8.9364 | 5.3000e-004 | 0.0000 | 8.9498 |
| Total | 1.6017 | 0.0456 | 0.0634 | 1.0000e-004 | | 2.4800e-003 | 2.4800e-003 | | 2.4800e-003 | 2.4800e-003 | 0.0000 | 8.9364 | 8.9364 | 5.3000e-004 | 0.0000 | 8.9498 |

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3.7 Architectural Coating - 2023

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 | 5.8400e-003 | 4.2100e-003 | 0.0493 | 1.6000e-004 | 0.0169 | 1.3000e-004 | 0.0170 | 4.4800e-003 | 1.2000e-004 | 4.6000e-003 | 0.0000 | 14.1563 | 14.1563 | 3.6000e-004 | 0.0000 | 14.1654 |
| Total | 5.8400e-003 | 4.2100e-003 | 0.0493 | 1.6000e-004 | 0.0169 | 1.3000e-004 | 0.0170 | 4.4800e-003 | 1.2000e-004 | 4.6000e-003 | 0.0000 | 14.1563 | 14.1563 | 3.6000e-004 | 0.0000 | 14.1654 |

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 | 1.5950 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 6.7100e-003 | 0.0456 | 0.0634 | 1.0000e-004 | | 2.4800e-003 | 2.4800e-003 | | 2.4800e-003 | 2.4800e-003 | 0.0000 | 8.9364 | 8.9364 | 5.3000e-004 | 0.0000 | 8.9497 |
| Total | 1.6017 | 0.0456 | 0.0634 | 1.0000e-004 | | 2.4800e-003 | 2.4800e-003 | | 2.4800e-003 | 2.4800e-003 | 0.0000 | 8.9364 | 8.9364 | 5.3000e-004 | 0.0000 | 8.9497 |

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3.7 Architectural Coating - 2023

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 | 5.8400e-003 | 4.2100e-003 | 0.0493 | 1.6000e-004 | 0.0169 | 1.3000e-004 | 0.0170 | 4.4800e-003 | 1.2000e-004 | 4.6000e-003 | 0.0000 | 14.1563 | 14.1563 | 3.6000e-004 | 0.0000 | 14.1654 |
| Total | 5.8400e-003 | 4.2100e-003 | 0.0493 | 1.6000e-004 | 0.0169 | 1.3000e-004 | 0.0170 | 4.4800e-003 | 1.2000e-004 | 4.6000e-003 | 0.0000 | 14.1563 | 14.1563 | 3.6000e-004 | 0.0000 | 14.1654 |

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 | 0.6977 | 3.1102 | 8.8355 | 0.0326 | 2.7414 | 0.0249 | 2.7663 | 0.7348 | 0.0232 | 0.7580 | 0.0000 | 3,012.1586 | 3,012.1586 | 0.1509 | 0.0000 | 3,015.9321 |
| Unmitigated | 0.6977 | 3.1102 | 8.8355 | 0.0326 | 2.7414 | 0.0249 | 2.7663 | 0.7348 | 0.0232 | 0.7580 | 0.0000 | 3,012.1586 | 3,012.1586 | 0.1509 | 0.0000 | 3,015.9321 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------------------|-------------------------|-----------------|-----------------|------------------|------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | | |
| General Office Building | 0.00 | 0.00 | 0.00 | | |
| High Turnover (Sit Down Restaurant) | 0.00 | 0.00 | 0.00 | | |
| Other Non-Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| User Defined Commercial | 2,756.00 | 2,756.00 | 2,756.00 | 7,222,925 | 7,222,925 |
| Total | 2,756.00 | 2,756.00 | 2,756.00 | 7,222,925 | 7,222,925 |

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 |
| 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 |
| Other Non-Asphalt Surfaces | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| User Defined Commercial | 7.20 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 100 | 0 | 0 |

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4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Enclosed Parking with Elevator | 0.545842 | 0.044768 | 0.205288 | 0.119317 | 0.015350 | 0.006227 | 0.020460 | 0.031333 | 0.002546 | 0.002133 | 0.005184 | 0.000692 | 0.000862 |
| General Office Building | 0.545842 | 0.044768 | 0.205288 | 0.119317 | 0.015350 | 0.006227 | 0.020460 | 0.031333 | 0.002546 | 0.002133 | 0.005184 | 0.000692 | 0.000862 |
| High Turnover (Sit Down Restaurant) | 0.545842 | 0.044768 | 0.205288 | 0.119317 | 0.015350 | 0.006227 | 0.020460 | 0.031333 | 0.002546 | 0.002133 | 0.005184 | 0.000692 | 0.000862 |
| Other Non-Asphalt Surfaces | 0.545842 | 0.044768 | 0.205288 | 0.119317 | 0.015350 | 0.006227 | 0.020460 | 0.031333 | 0.002546 | 0.002133 | 0.005184 | 0.000692 | 0.000862 |
| User Defined Commercial | 0.545842 | 0.044768 | 0.205288 | 0.119317 | 0.015350 | 0.006227 | 0.020460 | 0.031333 | 0.002546 | 0.002133 | 0.005184 | 0.000692 | 0.000862 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|-------------|-------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 2,682.108 2 | 2,682.108 2 | 0.0634 | 0.0131 | 2,687.597 4 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 2,682.108 2 | 2,682.108 2 | 0.0634 | 0.0131 | 2,687.597 4 |
| Natural Gas Mitigated | 0.0286 | 0.2596 | 0.2180 | 1.5600e-003 | | 0.0197 | 0.0197 | | 0.0197 | 0.0197 | 0.0000 | 282.5595 | 282.5595 | 5.4200e-003 | 5.1800e-003 | 284.2387 |
| Natural Gas Unmitigated | 0.0286 | 0.2596 | 0.2180 | 1.5600e-003 | | 0.0197 | 0.0197 | | 0.0197 | 0.0197 | 0.0000 | 282.5595 | 282.5595 | 5.4200e-003 | 5.1800e-003 | 284.2387 |

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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 | | | | | |
| 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 | 3.41427e+006 | 0.0184 | 0.1674 | 0.1406 | 1.0000e-003 | | 0.0127 | 0.0127 | | 0.0127 | 0.0127 | 0.0000 | 182.1986 | 182.1986 | 3.4900e-003 | 3.3400e-003 | 183.2813 |
| High Turnover (Sit Down Restaurant) | 1.88069e+006 | 0.0101 | 0.0922 | 0.0774 | 5.5000e-004 | | 7.0100e-003 | 7.0100e-003 | | 7.0100e-003 | 7.0100e-003 | 0.0000 | 100.3610 | 100.3610 | 1.9200e-003 | 1.8400e-003 | 100.9574 |
| Other Non-Asphalt Surfaces | 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 |
| User Defined Commercial | 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 | | 0.0286 | 0.2596 | 0.2180 | 1.5500e-003 | | 0.0197 | 0.0197 | | 0.0197 | 0.0197 | 0.0000 | 282.5595 | 282.5595 | 5.4100e-003 | 5.1800e-003 | 284.2387 |

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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 | | | | | |
| 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 | 3.41427e+006 | 0.0184 | 0.1674 | 0.1406 | 1.0000e-003 | | 0.0127 | 0.0127 | | 0.0127 | 0.0127 | 0.0000 | 182.1986 | 182.1986 | 3.4900e-003 | 3.3400e-003 | 183.2813 |
| High Turnover (Sit Down Restaurant) | 1.88069e+006 | 0.0101 | 0.0922 | 0.0774 | 5.5000e-004 | | 7.0100e-003 | 7.0100e-003 | | 7.0100e-003 | 7.0100e-003 | 0.0000 | 100.3610 | 100.3610 | 1.9200e-003 | 1.8400e-003 | 100.9574 |
| Other Non-Asphalt Surfaces | 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 |
| User Defined Commercial | 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 | | 0.0286 | 0.2596 | 0.2180 | 1.5500e-003 | | 0.0197 | 0.0197 | | 0.0197 | 0.0197 | 0.0000 | 282.5595 | 282.5595 | 5.4100e-003 | 5.1800e-003 | 284.2387 |

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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 | | | |
| Enclosed Parking with Elevator | 1.05776e+006 | 589.1295 | 0.0139 | 2.8800e-003 | 590.3352 |
| General Office Building | 3.43723e+006 | 1,914.4051 | 0.0452 | 9.3500e-003 | 1,918.3231 |
| High Turnover (Sit Down Restaurant) | 320621 | 178.5736 | 4.2200e-003 | 8.7000e-004 | 178.9390 |
| Other Non-Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 2,682.1082 | 0.0633 | 0.0131 | 2,687.5974 |

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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 | | | |
| Enclosed Parking with Elevator | 1.05776e+006 | 589.1295 | 0.0139 | 2.8800e-003 | 590.3352 |
| General Office Building | 3.43723e+006 | 1,914.4051 | 0.0452 | 9.3500e-003 | 1,918.3231 |
| High Turnover (Sit Down Restaurant) | 320621 | 178.5736 | 4.2200e-003 | 8.7000e-004 | 178.9390 |
| Other Non-Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 2,682.1082 | 0.0633 | 0.0131 | 2,687.5974 |

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 | 1.3925 | 1.2000e-004 | 0.0129 | 0.0000 | | 5.0000e-005 | 5.0000e-005 | | 5.0000e-005 | 5.0000e-005 | 0.0000 | 0.0250 | 0.0250 | 7.0000e-005 | 0.0000 | 0.0267 |
| Unmitigated | 1.3925 | 1.2000e-004 | 0.0129 | 0.0000 | | 5.0000e-005 | 5.0000e-005 | | 5.0000e-005 | 5.0000e-005 | 0.0000 | 0.0250 | 0.0250 | 7.0000e-005 | 0.0000 | 0.0267 |

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 | 0.1595 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 1.2318 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 1.1900e-003 | 1.2000e-004 | 0.0129 | 0.0000 | | 5.0000e-005 | 5.0000e-005 | | 5.0000e-005 | 5.0000e-005 | 0.0000 | 0.0250 | 0.0250 | 7.0000e-005 | 0.0000 | 0.0267 |
| Total | 1.3925 | 1.2000e-004 | 0.0129 | 0.0000 | | 5.0000e-005 | 5.0000e-005 | | 5.0000e-005 | 5.0000e-005 | 0.0000 | 0.0250 | 0.0250 | 7.0000e-005 | 0.0000 | 0.0267 |

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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 | 0.1595 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 1.2318 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 1.1900e-003 | 1.2000e-004 | 0.0129 | 0.0000 | | 5.0000e-005 | 5.0000e-005 | | 5.0000e-005 | 5.0000e-005 | 0.0000 | 0.0250 | 0.0250 | 7.0000e-005 | 0.0000 | 0.0267 |
| Total | 1.3925 | 1.2000e-004 | 0.0129 | 0.0000 | | 5.0000e-005 | 5.0000e-005 | | 5.0000e-005 | 5.0000e-005 | 0.0000 | 0.0250 | 0.0250 | 7.0000e-005 | 0.0000 | 0.0267 |

7.0 Water Detail

7.1 Mitigation Measures Water

4th and Hewitt Project MXD-TDM - Los Angeles-South Coast County, Annual

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|----------|
| Category | MT/yr | | | |
| Mitigated | 121.7439 | 0.5215 | 0.0128 | 138.6012 |
| Unmitigated | 121.7439 | 0.5215 | 0.0128 | 138.6012 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|--------------------|-----------------|---------------|---------------|-----------------|
| Land Use | Mgal | MT/yr | | | |
| Enclosed Parking with Elevator | 0 / 0.06132 | 0.3794 | 1.0000e-005 | 0.0000 | 0.3802 |
| General Office Building | 15.9195 / 0.13943 | 121.3644 | 0.5215 | 0.0128 | 138.2210 |
| High Turnover (Sit Down Restaurant) | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Non-Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| User Defined Commercial | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 121.7439 | 0.5215 | 0.0128 | 138.6012 |

4th and Hewitt Project MXD-TDM - Los Angeles-South Coast County, Annual

7.2 Water by Land Use**Mitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|--------------------|-----------------|---------------|---------------|-----------------|
| Land Use | Mgal | MT/yr | | | |
| Enclosed Parking with Elevator | 0 / 0.06132 | 0.3794 | 1.0000e-005 | 0.0000 | 0.3802 |
| General Office Building | 15.9195 / 0.13943 | 121.3644 | 0.5215 | 0.0128 | 138.2210 |
| High Turnover (Sit Down Restaurant) | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Non-Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| User Defined Commercial | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 121.7439 | 0.5215 | 0.0128 | 138.6012 |

8.0 Waste Detail**8.1 Mitigation Measures Waste**

4th and Hewitt Project MXD-TDM - Los Angeles-South Coast County, Annual

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|---------|
| | MT/yr | | | |
| Mitigated | 20.4026 | 1.2058 | 0.0000 | 50.5466 |
| Unmitigated | 20.4026 | 1.2058 | 0.0000 | 50.5466 |

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use | tons | MT/yr | | | |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 76.26 | 15.4801 | 0.9149 | 0.0000 | 38.3513 |
| High Turnover (Sit Down Restaurant) | 24.25 | 4.9225 | 0.2909 | 0.0000 | 12.1954 |
| Other Non-Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 20.4026 | 1.2058 | 0.0000 | 50.5466 |

4th and Hewitt Project MXD-TDM - Los Angeles-South Coast County, Annual

8.2 Waste by Land Use

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use | tons | MT/yr | | | |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 76.26 | 15.4801 | 0.9149 | 0.0000 | 38.3513 |
| High Turnover (Sit Down Restaurant) | 24.25 | 4.9225 | 0.2909 | 0.0000 | 12.1954 |
| Other Non-Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 20.4026 | 1.2058 | 0.0000 | 50.5466 |

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

4th and Hewitt Project MXD-TDM - Los Angeles-South Coast County, Annual

User Defined Equipment

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

11.0 Vegetation

California Emissions Estimator Model

Greenhouse Gas Emissions Estimates – Without
MXD/TDM

Fourth and Hewitt Project Without MXD-TDM - South Coast Air Basin, Annual

**Fourth and Hewitt Project Without MXD-TDM
South Coast Air Basin, Annual**

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|--------|-------------------|-------------|--------------------|------------|
| General Office Building | 327.98 | 1000sqft | 1.31 | 327,976.00 | 0 |
| User Defined Commercial | 1.00 | User Defined Unit | 0.00 | 0.00 | 0 |
| Enclosed Parking with Elevator | 660.00 | Space | 0.00 | 254,881.00 | 0 |
| Other Non-Asphalt Surfaces | 11.10 | 1000sqft | 0.00 | 11,098.00 | 0 |
| High Turnover (Sit Down Restaurant) | 8.15 | 1000sqft | 0.00 | 8,149.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|---|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 31 |
| Climate Zone | 11 | | | Operational Year | 2023 |
| Utility Company | Los Angeles Department of Water & Power | | | | |
| CO2 Intensity (lb/MWhr) | 1227.89 | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity (lb/MWhr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Fourth and Hewitt Project Without MXD-TDM - South Coast Air Basin, Annual

Project Characteristics -

Land Use - 1.31 ac. lot. 327,976 sf office. 8,149 sf high-turnover rest. 11,098 sf other surfaces (sidwalks, plaza, bike park passage). 660 parking spaces (254,881 sf).

Construction Phase - 25 demo. 70 grad. 547 const. 70 coating/paving overlap const.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - 1 excavator. 3 backhoes

Off-road Equipment -

Trips and VMT - 10,743 one-way trips (14 cy/load). 27 mile export dist. Demo 217 one-way haul trips (1,518 cy, 14 cy/load)

Demolition - 1,822 tons asphalt and structures

Grading - 75,200 cy export

Vehicle Trips - LADOT VMT Calculator Unadjusted without TDM

Woodstoves -

Energy Use - 2019 Title 24 Electricity

Water And Wastewater - WSA proposed subtotal. Office/rest. combined

Solid Waste - Code required reduction

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

| Table Name | Column Name | Default Value | New Value |
|----------------------|-------------|---------------|-----------|
| tblConstructionPhase | NumDays | 10.00 | 70.00 |
| tblConstructionPhase | NumDays | 200.00 | 547.00 |
| tblConstructionPhase | NumDays | 20.00 | 25.00 |

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| | | | |
|----------------------|----------------------------|------------|------------|
| tblConstructionPhase | NumDays | 4.00 | 70.00 |
| tblConstructionPhase | NumDays | 10.00 | 70.00 |
| tblEnergyUse | LightingElect | 1.75 | 1.22 |
| tblEnergyUse | LightingElect | 3.77 | 2.64 |
| tblEnergyUse | LightingElect | 7.87 | 5.50 |
| tblEnergyUse | T24E | 3.92 | 2.74 |
| tblEnergyUse | T24E | 4.60 | 3.22 |
| tblEnergyUse | T24E | 8.11 | 5.68 |
| tblGrading | AcresOfGrading | 26.25 | 1.50 |
| tblGrading | MaterialExported | 0.00 | 75,200.00 |
| tblLandUse | LandUseSquareFeet | 327,980.00 | 327,976.00 |
| tblLandUse | LandUseSquareFeet | 264,000.00 | 254,881.00 |
| tblLandUse | LandUseSquareFeet | 11,100.00 | 11,098.00 |
| tblLandUse | LandUseSquareFeet | 8,150.00 | 8,149.00 |
| tblLandUse | LotAcreage | 7.53 | 1.31 |
| tblLandUse | LotAcreage | 5.94 | 0.00 |
| tblLandUse | LotAcreage | 0.25 | 0.00 |
| tblLandUse | LotAcreage | 0.19 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 3.00 |
| tblSolidWaste | SolidWasteGenerationRate | 305.02 | 76.25 |
| tblSolidWaste | SolidWasteGenerationRate | 96.99 | 24.25 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 27.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 27.00 |
| tblTripsAndVMT | HaulingTripNumber | 180.00 | 217.00 |
| tblTripsAndVMT | HaulingTripNumber | 9,400.00 | 10,743.00 |
| tblVehicleTrips | CC_TL | 8.40 | 0.00 |
| tblVehicleTrips | CNW_TL | 6.90 | 0.00 |

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| | | | |
|-----------------|---------------------|---------------|---------------|
| tblVehicleTrips | CW_TL | 16.60 | 7.20 |
| tblVehicleTrips | CW_TTP | 0.00 | 100.00 |
| tblVehicleTrips | PR_TP | 0.00 | 100.00 |
| tblVehicleTrips | ST_TR | 2.46 | 0.00 |
| tblVehicleTrips | ST_TR | 158.37 | 0.00 |
| tblVehicleTrips | ST_TR | 0.00 | 4,150.00 |
| tblVehicleTrips | SU_TR | 1.05 | 0.00 |
| tblVehicleTrips | SU_TR | 131.84 | 0.00 |
| tblVehicleTrips | SU_TR | 0.00 | 4,150.00 |
| tblVehicleTrips | WD_TR | 11.03 | 0.00 |
| tblVehicleTrips | WD_TR | 127.15 | 0.00 |
| tblVehicleTrips | WD_TR | 0.00 | 4,150.00 |
| tblWater | IndoorWaterUseRate | 58,293,114.67 | 16,089,565.00 |
| tblWater | IndoorWaterUseRate | 2,473,799.76 | 0.00 |
| tblWater | OutdoorWaterUseRate | 0.00 | 61,320.00 |
| tblWater | OutdoorWaterUseRate | 35,728,038.02 | 139,430.00 |
| tblWater | OutdoorWaterUseRate | 157,902.11 | 0.00 |

2.0 Emissions Summary

2.1 Overall Construction
Unmitigated Construction

| Year | tons/yr | | | | | | | | | | | | | MT/yr | | |
|---------|---------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|----------|--------|--------|----------|
| ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
| 2021 | 0.2269 | 3.3850 | 1.6955 | 8.5700e-003 | 0.4008 | 0.0708 | 0.4716 | 0.1500 | 0.0664 | 0.2164 | 0.0000 | 815.6312 | 815.6312 | 0.0819 | 0.0000 | 817.6784 |
| 2022 | 0.3607 | 2.8929 | 2.8757 | 8.9700e-003 | 0.3949 | 0.0811 | 0.4760 | 0.1067 | 0.0782 | 0.1849 | 0.0000 | 809.5842 | 809.5842 | 0.0672 | 0.0000 | 811.2644 |
| 2023 | 1.9250 | 2.4868 | 2.8915 | 8.5900e-003 | 0.3743 | 0.0760 | 0.4503 | 0.1011 | 0.0729 | 0.1740 | 0.0000 | 772.9761 | 772.9761 | 0.0704 | 0.0000 | 774.7368 |
| Maximum | 1.9250 | 3.3850 | 2.8915 | 8.9700e-003 | 0.4008 | 0.0811 | 0.4760 | 0.1500 | 0.0782 | 0.2164 | 0.0000 | 815.6312 | 815.6312 | 0.0819 | 0.0000 | 817.6784 |

Mitigated Construction

| Year | tons/yr | | | | | | | | | | | | | MT/yr | | |
|---------|---------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|----------|--------|--------|----------|
| ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
| 2021 | 0.2269 | 3.3850 | 1.6955 | 8.5700e-003 | 0.3004 | 0.0708 | 0.3711 | 0.1002 | 0.0664 | 0.1666 | 0.0000 | 815.6310 | 815.6310 | 0.0819 | 0.0000 | 817.6782 |
| 2022 | 0.3607 | 2.8929 | 2.8757 | 8.9700e-003 | 0.3949 | 0.0811 | 0.4760 | 0.1067 | 0.0782 | 0.1849 | 0.0000 | 809.5839 | 809.5839 | 0.0672 | 0.0000 | 811.2641 |
| 2023 | 1.9250 | 2.4868 | 2.8915 | 8.5900e-003 | 0.3743 | 0.0760 | 0.4503 | 0.1011 | 0.0729 | 0.1740 | 0.0000 | 772.9758 | 772.9758 | 0.0704 | 0.0000 | 774.7365 |
| Maximum | 1.9250 | 3.3850 | 2.8915 | 8.9700e-003 | 0.3949 | 0.0811 | 0.4760 | 0.1067 | 0.0782 | 0.1849 | 0.0000 | 815.6310 | 815.6310 | 0.0819 | 0.0000 | 817.6782 |

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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 | 8.59 | 0.00 | 7.19 | 13.92 | 0.00 | 8.66 | 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 | 6-7-2021 | 9-6-2021 | 1.7437 | 1.7437 |
| 2 | 9-7-2021 | 12-6-2021 | 1.4791 | 1.4791 |
| 3 | 12-7-2021 | 3-6-2022 | 0.8192 | 0.8192 |
| 4 | 3-7-2022 | 6-6-2022 | 0.8168 | 0.8168 |
| 5 | 6-7-2022 | 9-6-2022 | 0.8157 | 0.8157 |
| 6 | 9-7-2022 | 12-6-2022 | 0.8099 | 0.8099 |
| 7 | 12-7-2022 | 3-6-2023 | 0.7249 | 0.7249 |
| 8 | 3-7-2023 | 6-6-2023 | 0.7080 | 0.7080 |
| 9 | 6-7-2023 | 9-6-2023 | 1.2693 | 1.2693 |
| 10 | 9-7-2023 | 9-30-2023 | 0.6497 | 0.6497 |
| | | Highest | 1.7437 | 1.7437 |

Fourth and Hewitt Project Without MXD-TDM - South Coast Air Basin, Annual

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 | 1.3925 | 1.2000e-004 | 0.0129 | 0.0000 | | 5.0000e-005 | 5.0000e-005 | | 5.0000e-005 | 5.0000e-005 | 0.0000 | 0.0250 | 0.0250 | 7.0000e-005 | 0.0000 | 0.0267 |
| Energy | 0.0286 | 0.2595 | 0.2180 | 1.5600e-003 | | 0.0197 | 0.0197 | | 0.0197 | 0.0197 | 0.0000 | 2,964.6079 | 2,964.6079 | 0.0688 | 0.0183 | 2,971.7761 |
| Mobile | 0.9941 | 4.5776 | 12.4929 | 0.0477 | 4.1309 | 0.0347 | 4.1656 | 1.1068 | 0.0323 | 1.1390 | 0.0000 | 4,414.6188 | 4,414.6188 | 0.2057 | 0.0000 | 4,419.7623 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 20.4006 | 0.0000 | 20.4006 | 1.2056 | 0.0000 | 50.5416 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 5.1045 | 117.9269 | 123.0314 | 0.5271 | 0.0130 | 140.0687 |
| Total | 2.4151 | 4.8373 | 12.7238 | 0.0493 | 4.1309 | 0.0545 | 4.1853 | 1.1068 | 0.0521 | 1.1588 | 25.5051 | 7,497.1786 | 7,522.6837 | 2.0073 | 0.0313 | 7,582.1753 |

Fourth and Hewitt Project Without MXD-TDM - South Coast Air Basin, Annual

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 | 1.3925 | 1.2000e-004 | 0.0129 | 0.0000 | | 5.0000e-005 | 5.0000e-005 | | 5.0000e-005 | 5.0000e-005 | 0.0000 | 0.0250 | 0.0250 | 7.0000e-005 | 0.0000 | 0.0267 |
| Energy | 0.0286 | 0.2595 | 0.2180 | 1.5600e-003 | | 0.0197 | 0.0197 | | 0.0197 | 0.0197 | 0.0000 | 2,964.6079 | 2,964.6079 | 0.0688 | 0.0183 | 2,971.7761 |
| Mobile | 0.9941 | 4.5776 | 12.4929 | 0.0477 | 4.1309 | 0.0347 | 4.1656 | 1.1068 | 0.0323 | 1.1390 | 0.0000 | 4,414.6188 | 4,414.6188 | 0.2057 | 0.0000 | 4,419.7623 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 20.4006 | 0.0000 | 20.4006 | 1.2056 | 0.0000 | 50.5416 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 5.1045 | 117.9269 | 123.0314 | 0.5271 | 0.0130 | 140.0687 |
| Total | 2.4151 | 4.8373 | 12.7238 | 0.0493 | 4.1309 | 0.0545 | 4.1853 | 1.1068 | 0.0521 | 1.1588 | 25.5051 | 7,497.1786 | 7,522.6837 | 2.0073 | 0.0313 | 7,582.1753 |

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

3.0 Construction Detail

Construction Phase

Fourth and Hewitt Project Without MXD-TDM - South Coast Air Basin, Annual

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Demolition | Demolition | 6/7/2021 | 7/9/2021 | 5 | 25 | |
| 2 | Grading | Grading | 7/12/2021 | 10/15/2021 | 5 | 70 | |
| 3 | Building Construction | Building Construction | 10/18/2021 | 11/21/2023 | 5 | 547 | |
| 4 | Paving | Paving | 8/9/2023 | 11/14/2023 | 5 | 70 | |
| 5 | Architectural Coating | Architectural Coating | 8/9/2023 | 11/14/2023 | 5 | 70 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 504,188; Non-Residential Outdoor: 168,063; Striped Parking Area: 15,959 (Architectural Coating – sqft)

OffRoad Equipment

Fourth and Hewitt Project Without MXD-TDM - South Coast Air Basin, Annual

| 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 | Excavators | 1 | 6.00 | 158 | 0.38 |
| Grading | Graders | 1 | 6.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 6.00 | 247 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 3 | 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 |
| 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 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

Trips and VMT

Fourth and Hewitt Project Without MXD-TDM - South Coast Air Basin, Annual

| 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 | 217.00 | 14.70 | 6.90 | 27.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 6 | 15.00 | 0.00 | 10,743.00 | 14.70 | 6.90 | 27.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 7 | 220.00 | 99.00 | 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 | 44.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0195 | 0.0000 | 0.0195 | 2.9500e-003 | 0.0000 | 2.9500e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0249 | 0.2462 | 0.1812 | 3.0000e-004 | | 0.0130 | 0.0130 | | 0.0121 | 0.0121 | 0.0000 | 26.3392 | 26.3392 | 6.7400e-003 | 0.0000 | 26.5076 |
| Total | 0.0249 | 0.2462 | 0.1812 | 3.0000e-004 | 0.0195 | 0.0130 | 0.0325 | 2.9500e-003 | 0.0121 | 0.0151 | 0.0000 | 26.3392 | 26.3392 | 6.7400e-003 | 0.0000 | 26.5076 |

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3.2 Demolition - 2021

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 1.0600e-003 | 0.0357 | 8.1500e-003 | 1.1000e-004 | 2.5200e-003 | 1.2000e-004 | 2.6300e-003 | 6.9000e-004 | 1.1000e-004 | 8.0000e-004 | 0.0000 | 10.6289 | 10.6289 | 7.3000e-004 | 0.0000 | 10.6472 |
| 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 | 6.8000e-004 | 5.0000e-004 | 5.6700e-003 | 2.0000e-005 | 1.7800e-003 | 1.0000e-005 | 1.8000e-003 | 4.7000e-004 | 1.0000e-005 | 4.9000e-004 | 0.0000 | 1.5546 | 1.5546 | 4.0000e-005 | 0.0000 | 1.5556 |
| Total | 1.7400e-003 | 0.0362 | 0.0138 | 1.3000e-004 | 4.3000e-003 | 1.3000e-004 | 4.4300e-003 | 1.1600e-003 | 1.2000e-004 | 1.2900e-003 | 0.0000 | 12.1835 | 12.1835 | 7.7000e-004 | 0.0000 | 12.2028 |

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 | | | | | 8.7700e-003 | 0.0000 | 8.7700e-003 | 1.3300e-003 | 0.0000 | 1.3300e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0249 | 0.2462 | 0.1812 | 3.0000e-004 | | 0.0130 | 0.0130 | | 0.0121 | 0.0121 | 0.0000 | 26.3391 | 26.3391 | 6.7400e-003 | 0.0000 | 26.5075 |
| Total | 0.0249 | 0.2462 | 0.1812 | 3.0000e-004 | 8.7700e-003 | 0.0130 | 0.0218 | 1.3300e-003 | 0.0121 | 0.0135 | 0.0000 | 26.3391 | 26.3391 | 6.7400e-003 | 0.0000 | 26.5075 |

Fourth and Hewitt Project Without MXD-TDM - South Coast Air Basin, Annual

3.2 Demolition - 2021

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 1.0600e-003 | 0.0357 | 8.1500e-003 | 1.1000e-004 | 2.5200e-003 | 1.2000e-004 | 2.6300e-003 | 6.9000e-004 | 1.1000e-004 | 8.0000e-004 | 0.0000 | 10.6289 | 10.6289 | 7.3000e-004 | 0.0000 | 10.6472 |
| 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 | 6.8000e-004 | 5.0000e-004 | 5.6700e-003 | 2.0000e-005 | 1.7800e-003 | 1.0000e-005 | 1.8000e-003 | 4.7000e-004 | 1.0000e-005 | 4.9000e-004 | 0.0000 | 1.5546 | 1.5546 | 4.0000e-005 | 0.0000 | 1.5556 |
| Total | 1.7400e-003 | 0.0362 | 0.0138 | 1.3000e-004 | 4.3000e-003 | 1.3000e-004 | 4.4300e-003 | 1.1600e-003 | 1.2000e-004 | 1.2900e-003 | 0.0000 | 12.1835 | 12.1835 | 7.7000e-004 | 0.0000 | 12.2028 |

3.3 Grading - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.1631 | 0.0000 | 0.1631 | 0.0876 | 0.0000 | 0.0876 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0626 | 0.6742 | 0.4459 | 8.2000e-004 | | 0.0319 | 0.0319 | | 0.0294 | 0.0294 | 0.0000 | 71.9737 | 71.9737 | 0.0233 | 0.0000 | 72.5557 |
| Total | 0.0626 | 0.6742 | 0.4459 | 8.2000e-004 | 0.1631 | 0.0319 | 0.1950 | 0.0876 | 0.0294 | 0.1170 | 0.0000 | 71.9737 | 71.9737 | 0.0233 | 0.0000 | 72.5557 |

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3.3 Grading - 2021

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0527 | 1.7682 | 0.4035 | 5.3400e-003 | 0.1246 | 5.8200e-003 | 0.1304 | 0.0342 | 5.5700e-003 | 0.0398 | 0.0000 | 526.2053 | 526.2053 | 0.0362 | 0.0000 | 527.1111 |
| 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 | 2.1800e-003 | 1.6200e-003 | 0.0183 | 6.0000e-005 | 5.7600e-003 | 4.0000e-005 | 5.8000e-003 | 1.5300e-003 | 4.0000e-005 | 1.5700e-003 | 0.0000 | 5.0224 | 5.0224 | 1.4000e-004 | 0.0000 | 5.0258 |
| Total | 0.0548 | 1.7699 | 0.4218 | 5.4000e-003 | 0.1303 | 5.8600e-003 | 0.1362 | 0.0357 | 5.6100e-003 | 0.0413 | 0.0000 | 531.2277 | 531.2277 | 0.0364 | 0.0000 | 532.1369 |

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 | | | | | 0.0734 | 0.0000 | 0.0734 | 0.0394 | 0.0000 | 0.0394 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0626 | 0.6742 | 0.4459 | 8.2000e-004 | | 0.0319 | 0.0319 | | 0.0294 | 0.0294 | 0.0000 | 71.9736 | 71.9736 | 0.0233 | 0.0000 | 72.5556 |
| Total | 0.0626 | 0.6742 | 0.4459 | 8.2000e-004 | 0.0734 | 0.0319 | 0.1053 | 0.0394 | 0.0294 | 0.0688 | 0.0000 | 71.9736 | 71.9736 | 0.0233 | 0.0000 | 72.5556 |

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3.3 Grading - 2021

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0527 | 1.7682 | 0.4035 | 5.3400e-003 | 0.1246 | 5.8200e-003 | 0.1304 | 0.0342 | 5.5700e-003 | 0.0398 | 0.0000 | 526.2053 | 526.2053 | 0.0362 | 0.0000 | 527.1111 |
| 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 | 2.1800e-003 | 1.6200e-003 | 0.0183 | 6.0000e-005 | 5.7600e-003 | 4.0000e-005 | 5.8000e-003 | 1.5300e-003 | 4.0000e-005 | 1.5700e-003 | 0.0000 | 5.0224 | 5.0224 | 1.4000e-004 | 0.0000 | 5.0258 |
| Total | 0.0548 | 1.7699 | 0.4218 | 5.4000e-003 | 0.1303 | 5.8600e-003 | 0.1362 | 0.0357 | 5.6100e-003 | 0.0413 | 0.0000 | 531.2277 | 531.2277 | 0.0364 | 0.0000 | 532.1369 |

3.4 Building Construction - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0498 | 0.3750 | 0.3547 | 6.1000e-004 | | 0.0188 | 0.0188 | | 0.0182 | 0.0182 | 0.0000 | 49.9256 | 49.9256 | 8.9100e-003 | 0.0000 | 50.1484 |
| Total | 0.0498 | 0.3750 | 0.3547 | 6.1000e-004 | | 0.0188 | 0.0188 | | 0.0182 | 0.0182 | 0.0000 | 49.9256 | 49.9256 | 8.9100e-003 | 0.0000 | 50.1484 |

Fourth and Hewitt Project Without MXD-TDM - South Coast Air Basin, Annual

3.4 Building Construction - 2021

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|--------------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 7.8300e-003 | 0.2648 | 0.0669 | 6.8000e-004 | 0.0172 | 5.4000e-004 | 0.0177 | 4.9500e-003 | 5.2000e-004 | 5.4700e-003 | 0.0000 | 66.1041 | 66.1041 | 4.2600e-003 | 0.0000 | 66.2106 |
| Worker | 0.0251 | 0.0187 | 0.2111 | 6.4000e-004 | 0.0664 | 5.0000e-004 | 0.0669 | 0.0176 | 4.6000e-004 | 0.0181 | 0.0000 | 57.8775 | 57.8775 | 1.5600e-003 | 0.0000 | 57.9164 |
| Total | 0.0330 | 0.2835 | 0.2781 | 1.3200e-003 | 0.0835 | 1.0400e-003 | 0.0846 | 0.0226 | 9.8000e-004 | 0.0236 | 0.0000 | 123.9815 | 123.9815 | 5.8200e-003 | 0.0000 | 124.1270 |

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 | 0.0498 | 0.3750 | 0.3547 | 6.1000e-004 | | 0.0188 | 0.0188 | | 0.0182 | 0.0182 | 0.0000 | 49.9255 | 49.9255 | 8.9100e-003 | 0.0000 | 50.1484 |
| Total | 0.0498 | 0.3750 | 0.3547 | 6.1000e-004 | | 0.0188 | 0.0188 | | 0.0182 | 0.0182 | 0.0000 | 49.9255 | 49.9255 | 8.9100e-003 | 0.0000 | 50.1484 |

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3.4 Building Construction - 2021

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|--------------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 7.8300e-003 | 0.2648 | 0.0669 | 6.8000e-004 | 0.0172 | 5.4000e-004 | 0.0177 | 4.9500e-003 | 5.2000e-004 | 5.4700e-003 | 0.0000 | 66.1041 | 66.1041 | 4.2600e-003 | 0.0000 | 66.2106 |
| Worker | 0.0251 | 0.0187 | 0.2111 | 6.4000e-004 | 0.0664 | 5.0000e-004 | 0.0669 | 0.0176 | 4.6000e-004 | 0.0181 | 0.0000 | 57.8775 | 57.8775 | 1.5600e-003 | 0.0000 | 57.9164 |
| Total | 0.0330 | 0.2835 | 0.2781 | 1.3200e-003 | 0.0835 | 1.0400e-003 | 0.0846 | 0.0226 | 9.8000e-004 | 0.0236 | 0.0000 | 123.9815 | 123.9815 | 5.8200e-003 | 0.0000 | 124.1270 |

3.4 Building Construction - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.2143 | 1.6254 | 1.6544 | 2.8700e-003 | | 0.0766 | 0.0766 | | 0.0740 | 0.0740 | 0.0000 | 236.0500 | 236.0500 | 0.0411 | 0.0000 | 237.0778 |
| Total | 0.2143 | 1.6254 | 1.6544 | 2.8700e-003 | | 0.0766 | 0.0766 | | 0.0740 | 0.0740 | 0.0000 | 236.0500 | 236.0500 | 0.0411 | 0.0000 | 237.0778 |

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3.4 Building Construction - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0347 | 1.1878 | 0.2996 | 3.1900e-003 | 0.0811 | 2.2200e-003 | 0.0833 | 0.0234 | 2.1200e-003 | 0.0255 | 0.0000 | 309.7316 | 309.7316 | 0.0194 | 0.0000 | 310.2177 |
| Worker | 0.1116 | 0.0797 | 0.9217 | 2.9200e-003 | 0.3138 | 2.3000e-003 | 0.3161 | 0.0833 | 2.1200e-003 | 0.0855 | 0.0000 | 263.8026 | 263.8026 | 6.6500e-003 | 0.0000 | 263.9689 |
| Total | 0.1464 | 1.2675 | 1.2213 | 6.1100e-003 | 0.3949 | 4.5200e-003 | 0.3994 | 0.1067 | 4.2400e-003 | 0.1110 | 0.0000 | 573.5342 | 573.5342 | 0.0261 | 0.0000 | 574.1866 |

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 | 0.2143 | 1.6254 | 1.6544 | 2.8700e-003 | | 0.0766 | 0.0766 | | 0.0740 | 0.0740 | 0.0000 | 236.0497 | 236.0497 | 0.0411 | 0.0000 | 237.0775 |
| Total | 0.2143 | 1.6254 | 1.6544 | 2.8700e-003 | | 0.0766 | 0.0766 | | 0.0740 | 0.0740 | 0.0000 | 236.0497 | 236.0497 | 0.0411 | 0.0000 | 237.0775 |

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3.4 Building Construction - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0347 | 1.1878 | 0.2996 | 3.1900e-003 | 0.0811 | 2.2200e-003 | 0.0833 | 0.0234 | 2.1200e-003 | 0.0255 | 0.0000 | 309.7316 | 309.7316 | 0.0194 | 0.0000 | 310.2177 |
| Worker | 0.1116 | 0.0797 | 0.9217 | 2.9200e-003 | 0.3138 | 2.3000e-003 | 0.3161 | 0.0833 | 2.1200e-003 | 0.0855 | 0.0000 | 263.8026 | 263.8026 | 6.6500e-003 | 0.0000 | 263.9689 |
| Total | 0.1464 | 1.2675 | 1.2213 | 6.1100e-003 | 0.3949 | 4.5200e-003 | 0.3994 | 0.1067 | 4.2400e-003 | 0.1110 | 0.0000 | 573.5342 | 573.5342 | 0.0261 | 0.0000 | 574.1866 |

3.4 Building Construction - 2023

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 | 0.1767 | 1.3584 | 1.4629 | 2.5600e-003 | | 0.0597 | 0.0597 | | 0.0576 | 0.0576 | 0.0000 | 210.6550 | 210.6550 | 0.0358 | 0.0000 | 211.5493 |
| Total | 0.1767 | 1.3584 | 1.4629 | 2.5600e-003 | | 0.0597 | 0.0597 | | 0.0576 | 0.0576 | 0.0000 | 210.6550 | 210.6550 | 0.0358 | 0.0000 | 211.5493 |

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3.4 Building Construction - 2023

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 | 0.0230 | 0.7952 | 0.2395 | 2.7500e-003 | 0.0724 | 9.2000e-004 | 0.0733 | 0.0209 | 8.8000e-004 | 0.0218 | 0.0000 | 267.8432 | 267.8432 | 0.0153 | 0.0000 | 268.2256 |
| Worker | 0.0938 | 0.0643 | 0.7583 | 2.5100e-003 | 0.2800 | 2.0000e-003 | 0.2820 | 0.0744 | 1.8400e-003 | 0.0762 | 0.0000 | 226.6221 | 226.6221 | 5.3500e-003 | 0.0000 | 226.7558 |
| Total | 0.1168 | 0.8595 | 0.9978 | 5.2600e-003 | 0.3524 | 2.9200e-003 | 0.3553 | 0.0952 | 2.7200e-003 | 0.0980 | 0.0000 | 494.4653 | 494.4653 | 0.0206 | 0.0000 | 494.9814 |

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 | 0.1767 | 1.3584 | 1.4629 | 2.5600e-003 | | 0.0597 | 0.0597 | | 0.0576 | 0.0576 | 0.0000 | 210.6547 | 210.6547 | 0.0358 | 0.0000 | 211.5490 |
| Total | 0.1767 | 1.3584 | 1.4629 | 2.5600e-003 | | 0.0597 | 0.0597 | | 0.0576 | 0.0576 | 0.0000 | 210.6547 | 210.6547 | 0.0358 | 0.0000 | 211.5490 |

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3.4 Building Construction - 2023

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 | 0.0230 | 0.7952 | 0.2395 | 2.7500e-003 | 0.0724 | 9.2000e-004 | 0.0733 | 0.0209 | 8.8000e-004 | 0.0218 | 0.0000 | 267.8432 | 267.8432 | 0.0153 | 0.0000 | 268.2256 |
| Worker | 0.0938 | 0.0643 | 0.7583 | 2.5100e-003 | 0.2800 | 2.0000e-003 | 0.2820 | 0.0744 | 1.8400e-003 | 0.0762 | 0.0000 | 226.6221 | 226.6221 | 5.3500e-003 | 0.0000 | 226.7558 |
| Total | 0.1168 | 0.8595 | 0.9978 | 5.2600e-003 | 0.3524 | 2.9200e-003 | 0.3553 | 0.0952 | 2.7200e-003 | 0.0980 | 0.0000 | 494.4653 | 494.4653 | 0.0206 | 0.0000 | 494.9814 |

3.5 Paving - 2023

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 | 0.0226 | 0.2183 | 0.3081 | 4.7000e-004 | | 0.0108 | 0.0108 | | 9.9600e-003 | 9.9600e-003 | 0.0000 | 41.2035 | 41.2035 | 0.0131 | 0.0000 | 41.5300 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0226 | 0.2183 | 0.3081 | 4.7000e-004 | | 0.0108 | 0.0108 | | 9.9600e-003 | 9.9600e-003 | 0.0000 | 41.2035 | 41.2035 | 0.0131 | 0.0000 | 41.5300 |

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3.5 Paving - 2023

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 | 1.6700e-003 | 1.1500e-003 | 0.0135 | 4.0000e-005 | 4.9900e-003 | 4.0000e-005 | 5.0300e-003 | 1.3300e-003 | 3.0000e-005 | 1.3600e-003 | 0.0000 | 4.0405 | 4.0405 | 1.0000e-004 | 0.0000 | 4.0429 |
| Total | 1.6700e-003 | 1.1500e-003 | 0.0135 | 4.0000e-005 | 4.9900e-003 | 4.0000e-005 | 5.0300e-003 | 1.3300e-003 | 3.0000e-005 | 1.3600e-003 | 0.0000 | 4.0405 | 4.0405 | 1.0000e-004 | 0.0000 | 4.0429 |

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 | 0.0226 | 0.2183 | 0.3081 | 4.7000e-004 | | 0.0108 | 0.0108 | | 9.9600e-003 | 9.9600e-003 | 0.0000 | 41.2035 | 41.2035 | 0.0131 | 0.0000 | 41.5300 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0226 | 0.2183 | 0.3081 | 4.7000e-004 | | 0.0108 | 0.0108 | | 9.9600e-003 | 9.9600e-003 | 0.0000 | 41.2035 | 41.2035 | 0.0131 | 0.0000 | 41.5300 |

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3.5 Paving - 2023

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 | 1.6700e-003 | 1.1500e-003 | 0.0135 | 4.0000e-005 | 4.9900e-003 | 4.0000e-005 | 5.0300e-003 | 1.3300e-003 | 3.0000e-005 | 1.3600e-003 | 0.0000 | 4.0405 | 4.0405 | 1.0000e-004 | 0.0000 | 4.0429 |
| Total | 1.6700e-003 | 1.1500e-003 | 0.0135 | 4.0000e-005 | 4.9900e-003 | 4.0000e-005 | 5.0300e-003 | 1.3300e-003 | 3.0000e-005 | 1.3600e-003 | 0.0000 | 4.0405 | 4.0405 | 1.0000e-004 | 0.0000 | 4.0429 |

3.6 Architectural Coating - 2023

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 | 1.5949 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 6.7100e-003 | 0.0456 | 0.0634 | 1.0000e-004 | | 2.4800e-003 | 2.4800e-003 | | 2.4800e-003 | 2.4800e-003 | 0.0000 | 8.9364 | 8.9364 | 5.3000e-004 | 0.0000 | 8.9498 |
| Total | 1.6016 | 0.0456 | 0.0634 | 1.0000e-004 | | 2.4800e-003 | 2.4800e-003 | | 2.4800e-003 | 2.4800e-003 | 0.0000 | 8.9364 | 8.9364 | 5.3000e-004 | 0.0000 | 8.9498 |

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3.6 Architectural Coating - 2023

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 | 5.6600e-003 | 3.8800e-003 | 0.0458 | 1.5000e-004 | 0.0169 | 1.2000e-004 | 0.0170 | 4.4900e-003 | 1.1000e-004 | 4.6000e-003 | 0.0000 | 13.6755 | 13.6755 | 3.2000e-004 | 0.0000 | 13.6835 |
| Total | 5.6600e-003 | 3.8800e-003 | 0.0458 | 1.5000e-004 | 0.0169 | 1.2000e-004 | 0.0170 | 4.4900e-003 | 1.1000e-004 | 4.6000e-003 | 0.0000 | 13.6755 | 13.6755 | 3.2000e-004 | 0.0000 | 13.6835 |

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 | 1.5949 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 6.7100e-003 | 0.0456 | 0.0634 | 1.0000e-004 | | 2.4800e-003 | 2.4800e-003 | | 2.4800e-003 | 2.4800e-003 | 0.0000 | 8.9364 | 8.9364 | 5.3000e-004 | 0.0000 | 8.9497 |
| Total | 1.6016 | 0.0456 | 0.0634 | 1.0000e-004 | | 2.4800e-003 | 2.4800e-003 | | 2.4800e-003 | 2.4800e-003 | 0.0000 | 8.9364 | 8.9364 | 5.3000e-004 | 0.0000 | 8.9497 |

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3.6 Architectural Coating - 2023

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 | 5.6600e-003 | 3.8800e-003 | 0.0458 | 1.5000e-004 | 0.0169 | 1.2000e-004 | 0.0170 | 4.4900e-003 | 1.1000e-004 | 4.6000e-003 | 0.0000 | 13.6755 | 13.6755 | 3.2000e-004 | 0.0000 | 13.6835 |
| Total | 5.6600e-003 | 3.8800e-003 | 0.0458 | 1.5000e-004 | 0.0169 | 1.2000e-004 | 0.0170 | 4.4900e-003 | 1.1000e-004 | 4.6000e-003 | 0.0000 | 13.6755 | 13.6755 | 3.2000e-004 | 0.0000 | 13.6835 |

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 | 0.9941 | 4.5776 | 12.4929 | 0.0477 | 4.1309 | 0.0347 | 4.1656 | 1.1068 | 0.0323 | 1.1390 | 0.0000 | 4,414.6188 | 4,414.6188 | 0.2057 | 0.0000 | 4,419.7623 |
| Unmitigated | 0.9941 | 4.5776 | 12.4929 | 0.0477 | 4.1309 | 0.0347 | 4.1656 | 1.1068 | 0.0323 | 1.1390 | 0.0000 | 4,414.6188 | 4,414.6188 | 0.2057 | 0.0000 | 4,419.7623 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------------------|-------------------------|-----------------|-----------------|-------------------|-------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | | |
| General Office Building | 0.00 | 0.00 | 0.00 | | |
| High Turnover (Sit Down Restaurant) | 0.00 | 0.00 | 0.00 | | |
| Other Non-Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| User Defined Commercial | 4,150.00 | 4,150.00 | 4150.00 | 10,876,320 | 10,876,320 |
| Total | 4,150.00 | 4,150.00 | 4,150.00 | 10,876,320 | 10,876,320 |

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 |
| 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 |
| Other Non-Asphalt Surfaces | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| User Defined Commercial | 7.20 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 100 | 0 | 0 |

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4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Enclosed Parking with Elevator | 0.552712 | 0.042774 | 0.202769 | 0.116939 | 0.015078 | 0.005847 | 0.021692 | 0.031910 | 0.002110 | 0.001769 | 0.004822 | 0.000710 | 0.000869 |
| General Office Building | 0.552712 | 0.042774 | 0.202769 | 0.116939 | 0.015078 | 0.005847 | 0.021692 | 0.031910 | 0.002110 | 0.001769 | 0.004822 | 0.000710 | 0.000869 |
| High Turnover (Sit Down Restaurant) | 0.552712 | 0.042774 | 0.202769 | 0.116939 | 0.015078 | 0.005847 | 0.021692 | 0.031910 | 0.002110 | 0.001769 | 0.004822 | 0.000710 | 0.000869 |
| Other Non-Asphalt Surfaces | 0.552712 | 0.042774 | 0.202769 | 0.116939 | 0.015078 | 0.005847 | 0.021692 | 0.031910 | 0.002110 | 0.001769 | 0.004822 | 0.000710 | 0.000869 |
| User Defined Commercial | 0.552712 | 0.042774 | 0.202769 | 0.116939 | 0.015078 | 0.005847 | 0.021692 | 0.031910 | 0.002110 | 0.001769 | 0.004822 | 0.000710 | 0.000869 |

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 | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 2,682.0629 | 2,682.0629 | 0.0633 | 0.0131 | 2,687.5520 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 2,682.0629 | 2,682.0629 | 0.0633 | 0.0131 | 2,687.5520 |
| Natural Gas Mitigated | 0.0286 | 0.2595 | 0.2180 | 1.5600e-003 | | 0.0197 | 0.0197 | | 0.0197 | 0.0197 | 0.0000 | 282.5450 | 282.5450 | 5.4200e-003 | 5.1800e-003 | 284.2240 |
| Natural Gas Unmitigated | 0.0286 | 0.2595 | 0.2180 | 1.5600e-003 | | 0.0197 | 0.0197 | | 0.0197 | 0.0197 | 0.0000 | 282.5450 | 282.5450 | 5.4200e-003 | 5.1800e-003 | 284.2240 |

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5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas s 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 | | | | | |
| 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 | 3.41423e +006 | 0.0184 | 0.1674 | 0.1406 | 1.0000e- 003 | | 0.0127 | 0.0127 | | 0.0127 | 0.0127 | 0.0000 | 182.1963 | 182.1963 | 3.4900e- 003 | 3.3400e- 003 | 183.2790 |
| High Turnover (Sit Down Restaurant) | 1.88046e +006 | 0.0101 | 0.0922 | 0.0774 | 5.5000e- 004 | | 7.0100e- 003 | 7.0100e- 003 | | 7.0100e- 003 | 7.0100e- 003 | 0.0000 | 100.3487 | 100.3487 | 1.9200e- 003 | 1.8400e- 003 | 100.9450 |
| Other Non- Asphalt Surfaces | 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 |
| User Defined Commercial | 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 | | 0.0286 | 0.2595 | 0.2180 | 1.5500e- 003 | | 0.0197 | 0.0197 | | 0.0197 | 0.0197 | 0.0000 | 282.5450 | 282.5450 | 5.4100e- 003 | 5.1800e- 003 | 284.2240 |

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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 | | | | | |
| 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 | 3.41423e+006 | 0.0184 | 0.1674 | 0.1406 | 1.0000e-003 | | 0.0127 | 0.0127 | | 0.0127 | 0.0127 | 0.0000 | 182.1963 | 182.1963 | 3.4900e-003 | 3.3400e-003 | 183.2790 |
| High Turnover (Sit Down Restaurant) | 1.88046e+006 | 0.0101 | 0.0922 | 0.0774 | 5.5000e-004 | | 7.0100e-003 | 7.0100e-003 | | 7.0100e-003 | 7.0100e-003 | 0.0000 | 100.3487 | 100.3487 | 1.9200e-003 | 1.8400e-003 | 100.9450 |
| Other Non-Asphalt Surfaces | 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 |
| User Defined Commercial | 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 | | 0.0286 | 0.2595 | 0.2180 | 1.5500e-003 | | 0.0197 | 0.0197 | | 0.0197 | 0.0197 | 0.0000 | 282.5450 | 282.5450 | 5.4100e-003 | 5.1800e-003 | 284.2240 |

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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 | | | |
| Enclosed Parking with Elevator | 1.05776e+006 | 589.1295 | 0.0139 | 2.8800e-003 | 590.3352 |
| General Office Building | 3.43719e+006 | 1,914.3818 | 0.0452 | 9.3500e-003 | 1,918.2998 |
| High Turnover (Sit Down Restaurant) | 320582 | 178.5517 | 4.2200e-003 | 8.7000e-004 | 178.9171 |
| Other Non-Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 2,682.0629 | 0.0633 | 0.0131 | 2,687.5520 |

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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 | | | |
| Enclosed Parking with Elevator | 1.05776e+006 | 589.1295 | 0.0139 | 2.8800e-003 | 590.3352 |
| General Office Building | 3.43719e+006 | 1,914.3818 | 0.0452 | 9.3500e-003 | 1,918.2998 |
| High Turnover (Sit Down Restaurant) | 320582 | 178.5517 | 4.2200e-003 | 8.7000e-004 | 178.9171 |
| Other Non-Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 2,682.0629 | 0.0633 | 0.0131 | 2,687.5520 |

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 | 1.3925 | 1.2000e-004 | 0.0129 | 0.0000 | | 5.0000e-005 | 5.0000e-005 | | 5.0000e-005 | 5.0000e-005 | 0.0000 | 0.0250 | 0.0250 | 7.0000e-005 | 0.0000 | 0.0267 |
| Unmitigated | 1.3925 | 1.2000e-004 | 0.0129 | 0.0000 | | 5.0000e-005 | 5.0000e-005 | | 5.0000e-005 | 5.0000e-005 | 0.0000 | 0.0250 | 0.0250 | 7.0000e-005 | 0.0000 | 0.0267 |

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 | 0.1595 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 1.2318 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 1.1900e-003 | 1.2000e-004 | 0.0129 | 0.0000 | | 5.0000e-005 | 5.0000e-005 | | 5.0000e-005 | 5.0000e-005 | 0.0000 | 0.0250 | 0.0250 | 7.0000e-005 | 0.0000 | 0.0267 |
| Total | 1.3925 | 1.2000e-004 | 0.0129 | 0.0000 | | 5.0000e-005 | 5.0000e-005 | | 5.0000e-005 | 5.0000e-005 | 0.0000 | 0.0250 | 0.0250 | 7.0000e-005 | 0.0000 | 0.0267 |

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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 | 0.1595 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 1.2318 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 1.1900e-003 | 1.2000e-004 | 0.0129 | 0.0000 | | 5.0000e-005 | 5.0000e-005 | | 5.0000e-005 | 5.0000e-005 | 0.0000 | 0.0250 | 0.0250 | 7.0000e-005 | 0.0000 | 0.0267 |
| Total | 1.3925 | 1.2000e-004 | 0.0129 | 0.0000 | | 5.0000e-005 | 5.0000e-005 | | 5.0000e-005 | 5.0000e-005 | 0.0000 | 0.0250 | 0.0250 | 7.0000e-005 | 0.0000 | 0.0267 |

7.0 Water Detail

7.1 Mitigation Measures Water

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| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|----------|
| Category | MT/yr | | | |
| Mitigated | 123.0314 | 0.5271 | 0.0130 | 140.0687 |
| Unmitigated | 123.0314 | 0.5271 | 0.0130 | 140.0687 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|--------------------|-----------------|---------------|---------------|-----------------|
| Land Use | Mgal | MT/yr | | | |
| Enclosed Parking with Elevator | 0 / 0.06132 | 0.3794 | 1.0000e-005 | 0.0000 | 0.3802 |
| General Office Building | 16.0896 / 0.13943 | 122.6519 | 0.5271 | 0.0130 | 139.6885 |
| High Turnover (Sit Down Restaurant) | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Non-Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| User Defined Commercial | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 123.0314 | 0.5271 | 0.0130 | 140.0687 |

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7.2 Water by Land Use**Mitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|--------------------|-----------------|---------------|---------------|-----------------|
| Land Use | Mgal | MT/yr | | | |
| Enclosed Parking with Elevator | 0 / 0.06132 | 0.3794 | 1.0000e-005 | 0.0000 | 0.3802 |
| General Office Building | 16.0896 / 0.13943 | 122.6519 | 0.5271 | 0.0130 | 139.6885 |
| High Turnover (Sit Down Restaurant) | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Non-Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| User Defined Commercial | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 123.0314 | 0.5271 | 0.0130 | 140.0687 |

8.0 Waste Detail**8.1 Mitigation Measures Waste**

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Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|---------|
| | MT/yr | | | |
| Mitigated | 20.4006 | 1.2056 | 0.0000 | 50.5416 |
| Unmitigated | 20.4006 | 1.2056 | 0.0000 | 50.5416 |

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use | tons | MT/yr | | | |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 76.25 | 15.4781 | 0.9147 | 0.0000 | 38.3462 |
| High Turnover (Sit Down Restaurant) | 24.25 | 4.9225 | 0.2909 | 0.0000 | 12.1954 |
| Other Non-Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 20.4006 | 1.2056 | 0.0000 | 50.5416 |

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8.2 Waste by Land Use

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use | tons | MT/yr | | | |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 76.25 | 15.4781 | 0.9147 | 0.0000 | 38.3462 |
| High Turnover (Sit Down Restaurant) | 24.25 | 4.9225 | 0.2909 | 0.0000 | 12.1954 |
| Other Non-Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 20.4006 | 1.2056 | 0.0000 | 50.5416 |

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
