# Appendix A:
# Air Quality and Greenhouse Gas Emissions Supporting Information

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# CalEEMod Output Files


**Unmitigated Construction and 2021 Project Operations—Annual** ..... **A.1-2**

**Unmitigated Construction and 2021 Project Operations—Summer** ..... **A.1-24**

**Unmitigated Construction and 2021 Project Operations—Winter** ..... **A.1-41**

**Mitigated Construction (Tier IV Equipment)—Annual** ..... **A.1-58**

**2030 Project Operations—Annual** ..... **A.1-93**

**Existing Emissions 2021—Annual** ..... **A.1-103**

**Existing Emissions 2021—Summer** ..... **A.1-111**

**Existing Emissions 2021—Winter** ..... **A.1-116**

**Existing Emissions 2030—Annual** ..... **A.1-121**

**Current General Plan Designation Buildout Scenarios—Annual Vehicle Miles Traveled** ..... **A.1-128**

# Moss Street - Unmitigated Construction and 2021 Operations

**San Diego County, Annual**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| Other Asphalt Surfaces | 1.30 | Acre | 1.30 | 56,645.00 | 0 |
| Other Non-Asphalt Surfaces | 82.08 | 1000sqft | 1.88 | 82,081.00 | 0 |
| Parking Lot | 66.00 | Space | 0.27 | 11,556.00 | 0 |
| Condo/Townhouse High Rise | 141.00 | Dwelling Unit | 3.45 | 233,061.00 | 403 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.6 | **Precipitation Freq (Days)** | 40 |
| **Climate Zone** | 13 | | | **Operational Year** | 2021 |
| **Utility Company** | San Diego Gas & Electric | | | | |
| **CO2 Intensity (lb/MWhr)** | 456 | **CH4 Intensity (lb/MWhr)** | 0.029 | **N2O Intensity (lb/MWhr)** | 0.006 |

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

Project Characteristics - Unmitigated Construction and 2021 Project Operations
CO2 intensity adjusted based on SD Gas & Electric renewable energy portfolio

Land Use - Information from final site plan and RFI response (Most recent project information as of April 2, 2019)

Construction Phase - Adjustments based on applicant-provided information
Applicant stated no site prep phase; demolition, grading and architectural coating are 30 days
(most recent project information as of April 2, 2019)

Demolition - Measured from Google Earth

Grading - Inputs based on final site plan (most recent project information as of April 2, 2019)
10,000 cubic yards of material to be imported and 15,000 cubic yards of material to be exported

Architectural Coating - 50 g/L Flat Coatings - VOC limit based on SDAPCD Rule 67.0.1

Vehicle Trips - Trip rate adjusted based on TIA report for proposed project
Consistent with the TIA, a transit reduction of 5% was applied

Woodstoves - No woodburning

Area Coating - 50 g/L Flat Coatings - VOC limit based on SDAPCD Rule 67.0.1

Construction Off-road Equipment Mitigation - Fugitive dust control measures

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblArchitecturalCoating | EF_Residential_Exterior | 250.00 | 50.00 |
| tblArchitecturalCoating | EF_Residential_Interior | 250.00 | 50.00 |
| tblAreaCoating | Area_EF_Residential_Exterior | 250 | 50 |
| tblAreaCoating | Area_EF_Residential_Interior | 250 | 50 |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 0 | 15 |
| tblConstructionPhase | NumDays | 20.00 | 30.00 |
| tblConstructionPhase | NumDays | 20.00 | 30.00 |
| tblConstructionPhase | NumDays | 20.00 | 30.00 |
| tblFireplaces | FireplaceWoodMass | 3,078.40 | 0.00 |
| tblFireplaces | NumberWood | 49.35 | 0.00 |
| tblGrading | AcresOfGrading | 15.00 | 10.00 |
| tblGrading | MaterialExported | 0.00 | 15,000.00 |
| tblGrading | MaterialImported | 0.00 | 10,000.00 |
| tblLandUse | LandUseSquareFeet | 56,628.00 | 56,645.00 |
| tblLandUse | LandUseSquareFeet | 82,080.00 | 82,081.00 |
| tblLandUse | LandUseSquareFeet | 26,400.00 | 11,556.00 |
| tblLandUse | LandUseSquareFeet | 141,000.00 | 233,061.00 |
| tblLandUse | LotAcreage | 0.59 | 0.27 |
| tblLandUse | LotAcreage | 2.20 | 3.45 |
| tblProjectCharacteristics | CO2IntensityFactor | 720.49 | 456 |
| tblVehicleTrips | HO_TTP | 39.60 | 39.50 |
| tblVehicleTrips | HS_TTP | 18.80 | 19.00 |
| tblVehicleTrips | HW_TTP | 41.60 | 41.50 |
| tblVehicleTrips | ST_TR | 4.31 | 7.60 |
| tblVehicleTrips | SU_TR | 3.43 | 7.60 |
| tblVehicleTrips | WD_TR | 4.18 | 7.60 |

| | | | |
|---|---|---|---|
| tblWoodstoves | NumberCatalytic | 7.05 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 7.05 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 3,019.20 | 0.00 |

# 2.0 Emissions Summary

## 2.1 Overall Construction

### Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2019 | 0.1509 | 1.8302 | 1.0143 | 3.0600e-003 | 0.1715 | 0.0678 | 0.2393 | 0.0682 | 0.0631 | 0.1313 | 0.0000 | 287.2084 | 287.2084 | 0.0483 | 0.0000 | 288.4163 |
| 2020 | 1.0954 | 2.6235 | 2.4725 | 5.5000e-003 | 0.1664 | 0.1258 | 0.2923 | 0.0448 | 0.1183 | 0.1631 | 0.0000 | 492.1440 | 492.1440 | 0.0761 | 0.0000 | 494.0470 |
| **Maximum** | **1.0954** | **2.6235** | **2.4725** | **5.5000e-003** | **0.1715** | **0.1258** | **0.2923** | **0.0682** | **0.1183** | **0.1631** | **0.0000** | **492.1440** | **492.1440** | **0.0761** | **0.0000** | **494.0470** |

### Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2019 | 0.1509 | 1.8302 | 1.0143 | 3.0600e-003 | 0.1066 | 0.0678 | 0.1744 | 0.0387 | 0.0631 | 0.1018 | 0.0000 | 287.2082 | 287.2082 | 0.0483 | 0.0000 | 288.4161 |
| 2020 | 1.0954 | 2.6235 | 2.4725 | 5.5000e-003 | 0.1664 | 0.1258 | 0.2923 | 0.0448 | 0.1183 | 0.1631 | 0.0000 | 492.1437 | 492.1437 | 0.0761 | 0.0000 | 494.0467 |
| **Maximum** | **1.0954** | **2.6235** | **2.4725** | **5.5000e-003** | **0.1664** | **0.1258** | **0.2923** | **0.0448** | **0.1183** | **0.1631** | **0.0000** | **492.1437** | **492.1437** | **0.0761** | **0.0000** | **494.0467** |

| | **ROG** | **NOx** | **CO** | **SO2** | **Fugitive PM10** | **Exhaust PM10** | **PM10 Total** | **Fugitive PM2.5** | **Exhaust PM2.5** | **PM2.5 Total** | **Bio- CO2** | **NBio-CO2** | **Total CO2** | **CH4** | **N20** | **CO2e** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **0.00** | **0.00** | **0.00** | **0.00** | **19.22** | **0.00** | **12.22** | **26.11** | **0.00** | **10.02** | **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 | 9-1-2019 | 11-30-2019 | 1.6445 | 1.6445 |
| 2 | 12-1-2019 | 2-29-2020 | 0.9113 | 0.9113 |
| 3 | 3-1-2020 | 5-31-2020 | 0.8879 | 0.8879 |
| 4 | 6-1-2020 | 8-31-2020 | 0.8865 | 0.8865 |
| 5 | 9-1-2020 | 9-30-2020 | 0.2891 | 0.2891 |
| | | Highest | 1.6445 | 1.6445 |

## 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 | 1.0362 | 0.0649 | 1.0730 | 3.9000e-004 | | 0.0101 | 0.0101 | | 0.0101 | 0.0101 | 0.0000 | 62.7951 | 62.7951 | 2.8400e-003 | 1.1200e-003 | 63.1997 |
| Energy | 5.6500e-003 | 0.0483 | 0.0205 | 3.1000e-004 | | 3.9000e-003 | 3.9000e-003 | | 3.9000e-003 | 3.9000e-003 | 0.0000 | 181.1059 | 181.1059 | 9.0300e-003 | 2.6700e-003 | 182.1281 |
| Mobile | 0.3272 | 1.4569 | 3.9651 | 0.0134 | 1.1531 | 0.0114 | 1.1645 | 0.3088 | 0.0107 | 0.3195 | 0.0000 | 1,238.9296 | 1,238.9296 | 0.0658 | 0.0000 | 1,240.5733 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 13.1660 | 0.0000 | 13.1660 | 0.7781 | 0.0000 | 32.6182 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 2.9145 | 38.0510 | 40.9655 | 0.3018 | 7.5700e-003 | 50.7653 |
| **Total** | **1.3691** | **1.5700** | **5.0587** | **0.0141** | **1.1531** | **0.0254** | **1.1784** | **0.3088** | **0.0246** | **0.3334** | **16.0805** | **1,520.8816** | **1,536.9621** | **1.1575** | **0.0114** | **1,569.2845** |

## 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 | 1.0362 | 0.0649 | 1.0730 | 3.9000e-004 | | 0.0101 | 0.0101 | | 0.0101 | 0.0101 | 0.0000 | 62.7951 | 62.7951 | 2.8400e-003 | 1.1200e-003 | 63.1997 |
| Energy | 5.6500e-003 | 0.0483 | 0.0205 | 3.1000e-004 | | 3.9000e-003 | 3.9000e-003 | | 3.9000e-003 | 3.9000e-003 | 0.0000 | 181.1059 | 181.1059 | 9.0300e-003 | 2.6700e-003 | 182.1281 |
| Mobile | 0.3272 | 1.4569 | 3.9651 | 0.0134 | 1.1531 | 0.0114 | 1.1645 | 0.3088 | 0.0107 | 0.3195 | 0.0000 | 1,238.9296 | 1,238.9296 | 0.0658 | 0.0000 | 1,240.5733 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 13.1660 | 0.0000 | 13.1660 | 0.7781 | 0.0000 | 32.6182 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 2.9145 | 38.0510 | 40.9655 | 0.3018 | 7.5700e-003 | 50.7653 |
| **Total** | **1.3691** | **1.5700** | **5.0587** | **0.0141** | **1.1531** | **0.0254** | **1.1784** | **0.3088** | **0.0246** | **0.3334** | **16.0805** | **1,520.8816** | **1,536.9621** | **1.1575** | **0.0114** | **1,569.2845** |

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

# 3.0 Construction Detail

## Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|---|---|---|---|---|---|---|---|
| 1 | Demolition | Demolition | 9/1/2019 | 10/11/2019 | 5 | 30 | |
| 2 | Grading | Grading | 10/12/2019 | 11/22/2019 | 5 | 30 | |
| 3 | Building Construction | Building Construction | 11/23/2019 | 10/9/2020 | 5 | 230 | |
| 4 | Paving | Paving | 10/10/2020 | 11/6/2020 | 5 | 20 | |
| 5 | Architectural Coating | Architectural Coating | 11/7/2020 | 12/18/2020 | 5 | 30 | |

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

**Acres of Grading (Grading Phase): 10**

**Acres of Paving: 3.45**

**Residential Indoor: 471,949; Residential Outdoor: 157,316; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:**

## OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 3 | 8.00 | 158 | 0.38 |
| Demolition | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Grading | Excavators | 1 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

## Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---|---|---|---|---|---|---|---|---|---|---|
| Demolition | 6 | 15.00 | 0.00 | 189.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 6 | 15.00 | 0.00 | 3,125.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 165.00 | 40.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 33.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

## 3.2 Demolition - 2019

### 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 | | | | | 0.0207 | 0.0000 | 0.0207 | 3.1400e-003 | 0.0000 | 3.1400e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0527 | 0.5367 | 0.3309 | 5.8000e-004 | | 0.0269 | 0.0269 | | 0.0250 | 0.0250 | 0.0000 | 51.9395 | 51.9395 | 0.0145 | 0.0000 | 52.3007 |
| **Total** | **0.0527** | **0.5367** | **0.3309** | **5.8000e-004** | **0.0207** | **0.0269** | **0.0476** | **3.1400e-003** | **0.0250** | **0.0282** | **0.0000** | **51.9395** | **51.9395** | **0.0145** | **0.0000** | **52.3007** |

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 8.3000e-004 | 0.0290 | 6.3200e-003 | 7.0000e-005 | 1.6200e-003 | 1.1000e-004 | 1.7300e-003 | 4.4000e-004 | 1.0000e-004 | 5.5000e-004 | 0.0000 | 7.3672 | 7.3672 | 6.7000e-004 | 0.0000 | 7.3838 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 8.9000e-004 | 6.8000e-004 | 6.5800e-003 | 2.0000e-005 | 1.8000e-003 | 1.0000e-005 | 1.8200e-003 | 4.8000e-004 | 1.0000e-005 | 4.9000e-004 | 0.0000 | 1.6841 | 1.6841 | 5.0000e-005 | 0.0000 | 1.6855 |
| **Total** | **1.7200e-003** | **0.0296** | **0.0129** | **9.0000e-005** | **3.4200e-003** | **1.2000e-004** | **3.5500e-003** | **9.2000e-004** | **1.1000e-004** | **1.0400e-003** | **0.0000** | **9.0513** | **9.0513** | **7.2000e-004** | **0.0000** | **9.0693** |

### 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 | | | | | 9.3200e-003 | 0.0000 | 9.3200e-003 | 1.4100e-003 | 0.0000 | 1.4100e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0527 | 0.5367 | 0.3309 | 5.8000e-004 | | 0.0269 | 0.0269 | | 0.0250 | 0.0250 | 0.0000 | 51.9394 | 51.9394 | 0.0145 | 0.0000 | 52.3007 |
| **Total** | **0.0527** | **0.5367** | **0.3309** | **5.8000e-004** | **9.3200e-003** | **0.0269** | **0.0362** | **1.4100e-003** | **0.0250** | **0.0265** | **0.0000** | **51.9394** | **51.9394** | **0.0145** | **0.0000** | **52.3007** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hauling | 8.3000e-004 | 0.0290 | 6.3200e-003 | 7.0000e-005 | 1.6200e-003 | 1.1000e-004 | 1.7300e-003 | 4.4000e-004 | 1.0000e-004 | 5.5000e-004 | 0.0000 | 7.3672 | 7.3672 | 6.7000e-004 | 0.0000 | 7.3838 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 8.9000e-004 | 6.8000e-004 | 6.5800e-003 | 2.0000e-005 | 1.8000e-003 | 1.0000e-005 | 1.8200e-003 | 4.8000e-004 | 1.0000e-005 | 4.9000e-004 | 0.0000 | 1.6841 | 1.6841 | 5.0000e-005 | 0.0000 | 1.6855 |
| **Total** | **1.7200e-003** | **0.0296** | **0.0129** | **9.0000e-005** | **3.4200e-003** | **1.2000e-004** | **3.5500e-003** | **9.2000e-004** | **1.1000e-004** | **1.0400e-003** | **0.0000** | **9.0513** | **9.0513** | **7.2000e-004** | **0.0000** | **9.0693** |

## 3.3 Grading - 2019

### 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 | 0.0387 | 0.4252 | 0.2444 | 4.4000e-004 | | 0.0210 | 0.0210 | | 0.0193 | 0.0193 | 0.0000 | 39.9634 | 39.9634 | 0.0126 | 0.0000 | 40.2795 |
| **Total** | **0.0387** | **0.4252** | **0.2444** | **4.4000e-004** | **0.0974** | **0.0210** | **0.1184** | **0.0505** | **0.0193** | **0.0698** | **0.0000** | **39.9634** | **39.9634** | **0.0126** | **0.0000** | **40.2795** |

### 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 | 0.0137 | 0.4788 | 0.1045 | 1.2300e-003 | 0.0267 | 1.7900e-003 | 0.0285 | 7.3400e-003 | 1.7100e-003 | 9.0500e-003 | 0.0000 | 121.8117 | 121.8117 | 0.0110 | 0.0000 | 122.0874 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 8.9000e-004 | 6.8000e-004 | 6.5800e-003 | 2.0000e-005 | 1.8000e-003 | 1.0000e-005 | 1.8200e-003 | 4.8000e-004 | 1.0000e-005 | 4.9000e-004 | 0.0000 | 1.6841 | 1.6841 | 5.0000e-005 | 0.0000 | 1.6855 |
| **Total** | **0.0146** | **0.4795** | **0.1110** | **1.2500e-003** | **0.0285** | **1.8000e-003** | **0.0304** | **7.8200e-003** | **1.7200e-003** | **9.5400e-003** | **0.0000** | **123.4958** | **123.4958** | **0.0111** | **0.0000** | **123.7728** |

## 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 | | | | | 0.0438 | 0.0000 | 0.0438 | 0.0227 | 0.0000 | 0.0227 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0387 | 0.4252 | 0.2444 | 4.4000e-004 | | 0.0210 | 0.0210 | | 0.0193 | 0.0193 | 0.0000 | 39.9634 | 39.9634 | 0.0126 | 0.0000 | 40.2795 |
| **Total** | **0.0387** | **0.4252** | **0.2444** | **4.4000e-004** | **0.0438** | **0.0210** | **0.0648** | **0.0227** | **0.0193** | **0.0420** | **0.0000** | **39.9634** | **39.9634** | **0.0126** | **0.0000** | **40.2795** |

## 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 | 0.0137 | 0.4788 | 0.1045 | 1.2300e-003 | 0.0267 | 1.7900e-003 | 0.0285 | 7.3400e-003 | 1.7100e-003 | 9.0500e-003 | 0.0000 | 121.8117 | 121.8117 | 0.0110 | 0.0000 | 122.0874 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 8.9000e-004 | 6.8000e-004 | 6.5800e-003 | 2.0000e-005 | 1.8000e-003 | 1.0000e-005 | 1.8200e-003 | 4.8000e-004 | 1.0000e-005 | 4.9000e-004 | 0.0000 | 1.6841 | 1.6841 | 5.0000e-005 | 0.0000 | 1.6855 |
| **Total** | **0.0146** | **0.4795** | **0.1110** | **1.2500e-003** | **0.0285** | **1.8000e-003** | **0.0304** | **7.8200e-003** | **1.7200e-003** | **9.5400e-003** | **0.0000** | **123.4958** | **123.4958** | **0.0111** | **0.0000** | **123.7728** |

# 3.4 Building Construction - 2019

## 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 | 0.0319 | 0.2846 | 0.2317 | 3.6000e-004 | | 0.0174 | 0.0174 | | 0.0164 | 0.0164 | 0.0000 | 31.7391 | 31.7391 | 7.7300e-003 | 0.0000 | 31.9324 |
| **Total** | **0.0319** | **0.2846** | **0.2317** | **3.6000e-004** | | **0.0174** | **0.0174** | | **0.0164** | **0.0164** | **0.0000** | **31.7391** | **31.7391** | **7.7300e-003** | **0.0000** | **31.9324** |

## Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 2.5300e-003 | 0.0678 | 0.0182 | 1.5000e-004 | 3.5800e-003 | 4.7000e-004 | 4.0500e-003 | 1.0300e-003 | 4.5000e-004 | 1.4800e-003 | 0.0000 | 14.3466 | 14.3466 | 1.1500e-003 | 0.0000 | 14.3754 |
| Worker | 8.7800e-003 | 6.7400e-003 | 0.0652 | 1.8000e-004 | 0.0179 | 1.3000e-004 | 0.0180 | 4.7500e-003 | 1.2000e-004 | 4.8700e-003 | 0.0000 | 16.6728 | 16.6728 | 5.4000e-004 | 0.0000 | 16.6862 |
| **Total** | **0.0113** | **0.0745** | **0.0834** | **3.3000e-004** | **0.0214** | **6.0000e-004** | **0.0220** | **5.7800e-003** | **5.7000e-004** | **6.3500e-003** | **0.0000** | **31.0194** | **31.0194** | **1.6900e-003** | **0.0000** | **31.0616** |

## 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 | 0.0319 | 0.2846 | 0.2317 | 3.6000e-004 | | 0.0174 | 0.0174 | | 0.0164 | 0.0164 | 0.0000 | 31.7390 | 31.7390 | 7.7300e-003 | 0.0000 | 31.9323 |
| **Total** | **0.0319** | **0.2846** | **0.2317** | **3.6000e-004** | | **0.0174** | **0.0174** | | **0.0164** | **0.0164** | **0.0000** | **31.7390** | **31.7390** | **7.7300e-003** | **0.0000** | **31.9323** |

## Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 2.5300e-003 | 0.0678 | 0.0182 | 1.5000e-004 | 3.5800e-003 | 4.7000e-004 | 4.0500e-003 | 1.0300e-003 | 4.5000e-004 | 1.4800e-003 | 0.0000 | 14.3466 | 14.3466 | 1.1500e-003 | 0.0000 | 14.3754 |
| Worker | 8.7800e-003 | 6.7400e-003 | 0.0652 | 1.8000e-004 | 0.0179 | 1.3000e-004 | 0.0180 | 4.7500e-003 | 1.2000e-004 | 4.8700e-003 | 0.0000 | 16.6728 | 16.6728 | 5.4000e-004 | 0.0000 | 16.6862 |
| **Total** | **0.0113** | **0.0745** | **0.0834** | **3.3000e-004** | **0.0214** | **6.0000e-004** | **0.0220** | **5.7800e-003** | **5.7000e-004** | **6.3500e-003** | **0.0000** | **31.0194** | **31.0194** | **1.6900e-003** | **0.0000** | **31.0616** |

## 3.4 Building Construction - 2020

### Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.2152 | 1.9474 | 1.7101 | 2.7300e-003 | | 0.1134 | 0.1134 | | 0.1066 | 0.1066 | 0.0000 | 235.0841 | 235.0841 | 0.0574 | 0.0000 | 236.5179 |
| **Total** | **0.2152** | **1.9474** | **1.7101** | **2.7300e-003** | | **0.1134** | **0.1134** | | **0.1066** | **0.1066** | **0.0000** | **235.0841** | **235.0841** | **0.0574** | **0.0000** | **236.5179** |

### 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 | 0.0155 | 0.4628 | 0.1230 | 1.1000e-003 | 0.0270 | 2.2600e-003 | 0.0292 | 7.7800e-003 | 2.1600e-003 | 9.9400e-003 | 0.0000 | 107.1277 | 107.1277 | 8.2100e-003 | 0.0000 | 107.3330 |
| Worker | 0.0617 | 0.0457 | 0.4482 | 1.3400e-003 | 0.1343 | 9.7000e-004 | 0.1353 | 0.0357 | 8.9000e-004 | 0.0366 | 0.0000 | 121.3985 | 121.3985 | 3.6400e-003 | 0.0000 | 121.4896 |
| **Total** | **0.0772** | **0.5085** | **0.5711** | **2.4400e-003** | **0.1613** | **3.2300e-003** | **0.1645** | **0.0435** | **3.0500e-003** | **0.0465** | **0.0000** | **228.5263** | **228.5263** | **0.0119** | **0.0000** | **228.8227** |

### 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 | 0.2152 | 1.9474 | 1.7101 | 2.7300e-003 | | 0.1134 | 0.1134 | | 0.1066 | 0.1066 | 0.0000 | 235.0839 | 235.0839 | 0.0574 | 0.0000 | 236.5177 |
| **Total** | **0.2152** | **1.9474** | **1.7101** | **2.7300e-003** | | **0.1134** | **0.1134** | | **0.1066** | **0.1066** | **0.0000** | **235.0839** | **235.0839** | **0.0574** | **0.0000** | **236.5177** |

## 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 | 0.0155 | 0.4628 | 0.1230 | 1.1000e-003 | 0.0270 | 2.2600e-003 | 0.0292 | 7.7800e-003 | 2.1600e-003 | 9.9400e-003 | 0.0000 | 107.1277 | 107.1277 | 8.2100e-003 | 0.0000 | 107.3330 |
| Worker | 0.0617 | 0.0457 | 0.4482 | 1.3400e-003 | 0.1343 | 9.7000e-004 | 0.1353 | 0.0357 | 8.9000e-004 | 0.0366 | 0.0000 | 121.3985 | 121.3985 | 3.6400e-003 | 0.0000 | 121.4896 |
| **Total** | **0.0772** | **0.5085** | **0.5711** | **2.4400e-003** | **0.1613** | **3.2300e-003** | **0.1645** | **0.0435** | **3.0500e-003** | **0.0465** | **0.0000** | **228.5263** | **228.5263** | **0.0119** | **0.0000** | **228.8227** |

# 3.5 Paving - 2020

## Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0136 | 0.1407 | 0.1465 | 2.3000e-004 | | 7.5300e-003 | 7.5300e-003 | | 6.9300e-003 | 6.9300e-003 | 0.0000 | 20.0282 | 20.0282 | 6.4800e-003 | 0.0000 | 20.1902 |
| Paving | 2.0600e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **0.0156** | **0.1407** | **0.1465** | **2.3000e-004** | | **7.5300e-003** | **7.5300e-003** | | **6.9300e-003** | **6.9300e-003** | **0.0000** | **20.0282** | **20.0282** | **6.4800e-003** | **0.0000** | **20.1902** |

## 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 | 5.5000e-004 | 4.1000e-004 | 4.0100e-003 | 1.0000e-005 | 1.2000e-003 | 1.0000e-005 | 1.2100e-003 | 3.2000e-004 | 1.0000e-005 | 3.3000e-004 | 0.0000 | 1.0873 | 1.0873 | 3.0000e-005 | 0.0000 | 1.0881 |
| **Total** | **5.5000e-004** | **4.1000e-004** | **4.0100e-003** | **1.0000e-005** | **1.2000e-003** | **1.0000e-005** | **1.2100e-003** | **3.2000e-004** | **1.0000e-005** | **3.3000e-004** | **0.0000** | **1.0873** | **1.0873** | **3.0000e-005** | **0.0000** | **1.0881** |

## 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 | 0.0136 | 0.1407 | 0.1465 | 2.3000e-004 | | 7.5300e-003 | 7.5300e-003 | | 6.9300e-003 | 6.9300e-003 | 0.0000 | 20.0282 | 20.0282 | 6.4800e-003 | 0.0000 | 20.1901 |
| Paving | 2.0600e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **0.0156** | **0.1407** | **0.1465** | **2.3000e-004** | | **7.5300e-003** | **7.5300e-003** | | **6.9300e-003** | **6.9300e-003** | **0.0000** | **20.0282** | **20.0282** | **6.4800e-003** | **0.0000** | **20.1901** |

## 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 | 5.5000e-004 | 4.1000e-004 | 4.0100e-003 | 1.0000e-005 | 1.2000e-003 | 1.0000e-005 | 1.2100e-003 | 3.2000e-004 | 1.0000e-005 | 3.3000e-004 | 0.0000 | 1.0873 | 1.0873 | 3.0000e-005 | 0.0000 | 1.0881 |
| **Total** | **5.5000e-004** | **4.1000e-004** | **4.0100e-003** | **1.0000e-005** | **1.2000e-003** | **1.0000e-005** | **1.2100e-003** | **3.2000e-004** | **1.0000e-005** | **3.3000e-004** | **0.0000** | **1.0873** | **1.0873** | **3.0000e-005** | **0.0000** | **1.0881** |

# 3.6 Architectural Coating - 2020

## Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.7814 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 3.6300e-003 | 0.0253 | 0.0275 | 4.0000e-005 | | 1.6600e-003 | 1.6600e-003 | | 1.6600e-003 | 1.6600e-003 | 0.0000 | 3.8299 | 3.8299 | 3.0000e-004 | 0.0000 | 3.8373 |
| **Total** | **0.7850** | **0.0253** | **0.0275** | **4.0000e-005** | | **1.6600e-003** | **1.6600e-003** | | **1.6600e-003** | **1.6600e-003** | **0.0000** | **3.8299** | **3.8299** | **3.0000e-004** | **0.0000** | **3.8373** |

## 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 | 1.8200e-003 | 1.3500e-003 | 0.0133 | 4.0000e-005 | 3.9700e-003 | 3.0000e-005 | 4.0000e-003 | 1.0500e-003 | 3.0000e-005 | 1.0800e-003 | 0.0000 | 3.5881 | 3.5881 | 1.1000e-004 | 0.0000 | 3.5908 |
| **Total** | **1.8200e-003** | **1.3500e-003** | **0.0133** | **4.0000e-005** | **3.9700e-003** | **3.0000e-005** | **4.0000e-003** | **1.0500e-003** | **3.0000e-005** | **1.0800e-003** | **0.0000** | **3.5881** | **3.5881** | **1.1000e-004** | **0.0000** | **3.5908** |

## Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.7814 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 3.6300e-003 | 0.0253 | 0.0275 | 4.0000e-005 | | 1.6600e-003 | 1.6600e-003 | | 1.6600e-003 | 1.6600e-003 | 0.0000 | 3.8299 | 3.8299 | 3.0000e-004 | 0.0000 | 3.8373 |
| **Total** | **0.7850** | **0.0253** | **0.0275** | **4.0000e-005** | | **1.6600e-003** | **1.6600e-003** | | **1.6600e-003** | **1.6600e-003** | **0.0000** | **3.8299** | **3.8299** | **3.0000e-004** | **0.0000** | **3.8373** |

## 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 | 1.8200e-003 | 1.3500e-003 | 0.0133 | 4.0000e-005 | 3.9700e-003 | 3.0000e-005 | 4.0000e-003 | 1.0500e-003 | 3.0000e-005 | 1.0800e-003 | 0.0000 | 3.5881 | 3.5881 | 1.1000e-004 | 0.0000 | 3.5908 |
| **Total** | **1.8200e-003** | **1.3500e-003** | **0.0133** | **4.0000e-005** | **3.9700e-003** | **3.0000e-005** | **4.0000e-003** | **1.0500e-003** | **3.0000e-005** | **1.0800e-003** | **0.0000** | **3.5881** | **3.5881** | **1.1000e-004** | **0.0000** | **3.5908** |

# 4.0 Operational Detail - Mobile

## 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.3272 | 1.4569 | 3.9651 | 0.0134 | 1.1531 | 0.0114 | 1.1645 | 0.3088 | 0.0107 | 0.3195 | 0.0000 | 1,238.9296 | 1,238.9296 | 0.0658 | 0.0000 | 1,240.5733 |
| Unmitigated | 0.3272 | 1.4569 | 3.9651 | 0.0134 | 1.1531 | 0.0114 | 1.1645 | 0.3088 | 0.0107 | 0.3195 | 0.0000 | 1,238.9296 | 1,238.9296 | 0.0658 | 0.0000 | 1,240.5733 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Condo/Townhouse High Rise | 1,072.00 | 1,072.00 | 1072.00 | 3,059,605 | 3,059,605 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Other Non-Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Total | 1,072.00 | 1,072.00 | 1,072.00 | 3,059,605 | 3,059,605 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Condo/Townhouse High Rise | 10.80 | 7.30 | 7.50 | 41.50 | 19.00 | 39.50 | 86 | 11 | 3 |
| Other Asphalt Surfaces | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Other Non-Asphalt Surfaces | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Parking Lot | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Condo/Townhouse High Rise | 0.593936 | 0.041843 | 0.182569 | 0.108325 | 0.016436 | 0.005513 | 0.015940 | 0.023523 | 0.001912 | 0.001972 | 0.006090 | 0.000748 | 0.001193 |
| Other Asphalt Surfaces | 0.593936 | 0.041843 | 0.182569 | 0.108325 | 0.016436 | 0.005513 | 0.015940 | 0.023523 | 0.001912 | 0.001972 | 0.006090 | 0.000748 | 0.001193 |
| Other Non-Asphalt Surfaces | 0.593936 | 0.041843 | 0.182569 | 0.108325 | 0.016436 | 0.005513 | 0.015940 | 0.023523 | 0.001912 | 0.001972 | 0.006090 | 0.000748 | 0.001193 |
| Parking Lot | 0.593936 | 0.041843 | 0.182569 | 0.108325 | 0.016436 | 0.005513 | 0.015940 | 0.023523 | 0.001912 | 0.001972 | 0.006090 | 0.000748 | 0.001193 |

## 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 | 125.2098 | 125.2098 | 7.9600e-003 | 1.6500e-003 | 125.8999 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 125.2098 | 125.2098 | 7.9600e-003 | 1.6500e-003 | 125.8999 |
| NaturalGas Mitigated | 5.6500e-003 | 0.0483 | 0.0205 | 3.1000e-004 | | 3.9000e-003 | 3.9000e-003 | | 3.9000e-003 | 3.9000e-003 | 0.0000 | 55.8961 | 55.8961 | 1.0700e-003 | 1.0200e-003 | 56.2282 |
| NaturalGas Unmitigated | 5.6500e-003 | 0.0483 | 0.0205 | 3.1000e-004 | | 3.9000e-003 | 3.9000e-003 | | 3.9000e-003 | 3.9000e-003 | 0.0000 | 55.8961 | 55.8961 | 1.0700e-003 | 1.0200e-003 | 56.2282 |

### 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 | | | | | |
| Condo/Townhouse High Rise | 1.04745e+006 | 5.6500e-003 | 0.0483 | 0.0205 | 3.1000e-004 | | 3.9000e-003 | 3.9000e-003 | | 3.9000e-003 | 3.9000e-003 | 0.0000 | 55.8961 | 55.8961 | 1.0700e-003 | 1.0200e-003 | 56.2282 |
| Other 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 |
| 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 |
| Parking Lot | 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** | | **5.6500e-003** | **0.0483** | **0.0205** | **3.1000e-004** | | **3.9000e-003** | **3.9000e-003** | | **3.9000e-003** | **3.9000e-003** | **0.0000** | **55.8961** | **55.8961** | **1.0700e-003** | **1.0200e-003** | **56.2282** |

**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 | | | | | |
| Condo/Townhouse High Rise | 1.04745e+006 | 5.6500e-003 | 0.0483 | 0.0205 | 3.1000e-004 | | 3.9000e-003 | 3.9000e-003 | | 3.9000e-003 | 3.9000e-003 | 0.0000 | 55.8961 | 55.8961 | 1.0700e-003 | 1.0200e-003 | 56.2282 |
| Other 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 |
| 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 |
| Parking Lot | 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** | | **5.6500e-003** | **0.0483** | **0.0205** | **3.1000e-004** | | **3.9000e-003** | **3.9000e-003** | | **3.9000e-003** | **3.9000e-003** | **0.0000** | **55.8961** | **55.8961** | **1.0700e-003** | **1.0200e-003** | **56.2282** |

## 5.3 Energy by Land Use - Electricity

**Unmitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| Condo/Townhouse High Rise | 601307 | 124.3733 | 7.9100e-003 | 1.6400e-003 | 125.0587 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Non-Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 4044.6 | 0.8366 | 5.0000e-005 | 1.0000e-005 | 0.8412 |
| **Total** | | **125.2098** | **7.9600e-003** | **1.6500e-003** | **125.8999** |

**Mitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| Condo/Townhouse High Rise | 601307 | 124.3733 | 7.9100e-003 | 1.6400e-003 | 125.0587 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Non-Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 4044.6 | 0.8366 | 5.0000e-005 | 1.0000e-005 | 0.8412 |
| **Total** | | **125.2098** | **7.9600e-003** | **1.6500e-003** | **125.8999** |

# 6.0 Area Detail

## 6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 1.0362 | 0.0649 | 1.0730 | 3.9000e-004 | | 0.0101 | 0.0101 | | 0.0101 | 0.0101 | 0.0000 | 62.7951 | 62.7951 | 2.8400e-003 | 1.1200e-003 | 63.1997 |
| Unmitigated | 1.0362 | 0.0649 | 1.0730 | 3.9000e-004 | | 0.0101 | 0.0101 | | 0.0101 | 0.0101 | 0.0000 | 62.7951 | 62.7951 | 2.8400e-003 | 1.1200e-003 | 63.1997 |

## 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 | 0.0781 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.9199 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 6.1700e-003 | 0.0527 | 0.0224 | 3.4000e-004 | | 4.2600e-003 | 4.2600e-003 | | 4.2600e-003 | 4.2600e-003 | 0.0000 | 61.0822 | 61.0822 | 1.1700e-003 | 1.1200e-003 | 61.4452 |
| Landscaping | 0.0319 | 0.0121 | 1.0506 | 6.0000e-005 | | 5.7900e-003 | 5.7900e-003 | | 5.7900e-003 | 5.7900e-003 | 0.0000 | 1.7128 | 1.7128 | 1.6600e-003 | 0.0000 | 1.7544 |
| **Total** | **1.0362** | **0.0649** | **1.0730** | **4.0000e-004** | | **0.0101** | **0.0101** | | **0.0101** | **0.0101** | **0.0000** | **62.7951** | **62.7951** | **2.8300e-003** | **1.1200e-003** | **63.1997** |

### 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 | 0.0781 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.9199 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 6.1700e-003 | 0.0527 | 0.0224 | 3.4000e-004 | | 4.2600e-003 | 4.2600e-003 | | 4.2600e-003 | 4.2600e-003 | 0.0000 | 61.0822 | 61.0822 | 1.1700e-003 | 1.1200e-003 | 61.4452 |
| Landscaping | 0.0319 | 0.0121 | 1.0506 | 6.0000e-005 | | 5.7900e-003 | 5.7900e-003 | | 5.7900e-003 | 5.7900e-003 | 0.0000 | 1.7128 | 1.7128 | 1.6600e-003 | 0.0000 | 1.7544 |
| **Total** | **1.0362** | **0.0649** | **1.0730** | **4.0000e-004** | | **0.0101** | **0.0101** | | **0.0101** | **0.0101** | **0.0000** | **62.7951** | **62.7951** | **2.8300e-003** | **1.1200e-003** | **63.1997** |

# 7.0 Water Detail

## 7.1 Mitigation Measures Water

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| Category | MT/yr | | | |
| Mitigated | 40.9655 | 0.3018 | 7.5700e-003 | 50.7653 |
| Unmitigated | 40.9655 | 0.3018 | 7.5700e-003 | 50.7653 |

## 7.2 Water by Land Use

**Unmitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| Condo/Townhouse High Rise | 9.18672 / 5.79163 | 40.9655 | 0.3018 | 7.5700e-003 | 50.7653 |
| Other Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Non-Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **40.9655** | **0.3018** | **7.5700e-003** | **50.7653** |

**Mitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| Condo/Townhouse High Rise | 9.18672 / 5.79163 | 40.9655 | 0.3018 | 7.5700e-003 | 50.7653 |
| Other Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Non-Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **40.9655** | **0.3018** | **7.5700e-003** | **50.7653** |

# 8.0 Waste Detail

## 8.1 Mitigation Measures Waste

**Category/Year**

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| | MT/yr | | | |
| Mitigated | 13.1660 | 0.7781 | 0.0000 | 32.6182 |
| Unmitigated | 13.1660 | 0.7781 | 0.0000 | 32.6182 |

## 8.2 Waste by Land Use

### Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| Condo/Townhouse High Rise | 64.86 | 13.1660 | 0.7781 | 0.0000 | 32.6182 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Non-Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **13.1660** | **0.7781** | **0.0000** | **32.6182** |

### Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| Condo/Townhouse High Rise | 64.86 | 13.1660 | 0.7781 | 0.0000 | 32.6182 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Non-Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **13.1660** | **0.7781** | **0.0000** | **32.6182** |

# Moss Street - Unmitigated Construction and 2021 Operations

**San Diego County, Summer**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| Other Asphalt Surfaces | 1.30 | Acre | 1.30 | 56,645.00 | 0 |
| Other Non-Asphalt Surfaces | 82.08 | 1000sqft | 1.88 | 82,081.00 | 0 |
| Parking Lot | 66.00 | Space | 0.27 | 11,556.00 | 0 |
| Condo/Townhouse High Rise | 141.00 | Dwelling Unit | 3.45 | 233,061.00 | 403 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.6 | **Precipitation Freq (Days)** | 40 |
| **Climate Zone** | 13 | | | **Operational Year** | 2021 |
| **Utility Company** | San Diego Gas & Electric | | | | |
| **CO2 Intensity (lb/MWhr)** | 456 | **CH4 Intensity (lb/MWhr)** | 0.029 | **N2O Intensity (lb/MWhr)** | 0.006 |

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

Project Characteristics - Unmitigated Construction and 2021 Project Operations
CO2 intensity adjusted based on SD Gas & Electric renewable energy portfolio

Land Use - Information from final site plan and RFI response (Most recent project information as of April 2, 2019)

Construction Phase - Adjustments based on applicant-provided information
Applicant stated no site prep phase; demolition, grading and architectural coating are 30 days
(most recent project information as of April 2, 2019)

Demolition - Measured from Google Earth

Grading - Inputs based on final site plan (most recent project information as of April 2, 2019)
10,000 cubic yards of material to be imported and 15,000 cubic yards of material to be exported

Architectural Coating - 50 g/L Flat Coatings - VOC limit based on SDAPCD Rule 67.0.1

Vehicle Trips - Trip rate adjusted based on TIA report for proposed project
Consistent with the TIA, a transit reduction of 5% was applied

Woodstoves - No woodburning

Area Coating - 50 g/L Flat Coatings - VOC limit based on SDAPCD Rule 67.0.1

Construction Off-road Equipment Mitigation - Fugitive dust control measures

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblArchitecturalCoating | EF_Residential_Exterior | 250.00 | 50.00 |
| tblArchitecturalCoating | EF_Residential_Interior | 250.00 | 50.00 |
| tblAreaCoating | Area_EF_Residential_Exterior | 250 | 50 |
| tblAreaCoating | Area_EF_Residential_Interior | 250 | 50 |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 0 | 15 |
| tblConstructionPhase | NumDays | 20.00 | 30.00 |
| tblConstructionPhase | NumDays | 20.00 | 30.00 |
| tblConstructionPhase | NumDays | 20.00 | 30.00 |
| tblFireplaces | FireplaceWoodMass | 3,078.40 | 0.00 |
| tblFireplaces | NumberWood | 49.35 | 0.00 |
| tblGrading | AcresOfGrading | 15.00 | 10.00 |
| tblGrading | MaterialExported | 0.00 | 15,000.00 |
| tblGrading | MaterialImported | 0.00 | 10,000.00 |
| tblLandUse | LandUseSquareFeet | 56,628.00 | 56,645.00 |
| tblLandUse | LandUseSquareFeet | 82,080.00 | 82,081.00 |
| tblLandUse | LandUseSquareFeet | 26,400.00 | 11,556.00 |
| tblLandUse | LandUseSquareFeet | 141,000.00 | 233,061.00 |
| tblLandUse | LotAcreage | 0.59 | 0.27 |
| tblLandUse | LotAcreage | 2.20 | 3.45 |
| tblProjectCharacteristics | CO2IntensityFactor | 720.49 | 456 |
| tblVehicleTrips | HO_TTP | 39.60 | 39.50 |
| tblVehicleTrips | HS_TTP | 18.80 | 19.00 |
| tblVehicleTrips | HW_TTP | 41.60 | 41.50 |
| tblVehicleTrips | ST_TR | 4.31 | 7.60 |
| tblVehicleTrips | SU_TR | 3.43 | 7.60 |
| tblVehicleTrips | WD_TR | 4.18 | 7.60 |
| tblWoodstoves | NumberCatalytic | 7.05 | 0.00 |

| | | | |
|---|---|---|---|
| tblWoodstoves | NumberNoncatalytic | 7.05 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 3,019.20 | 0.00 |

# 2.0 Emissions Summary

## 2.1 Overall Construction (Maximum Daily Emission)

### Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2019 | 3.6269 | 59.6779 | 23.5495 | 0.1136 | 8.4361 | 1.8029 | 9.9524 | 3.8977 | 1.6773 | 5.2970 | 0.0000 | 12,082.6775 | 12,082.6775 | 1.7312 | 0.0000 | 12,125.9565 |
| 2020 | 52.4568 | 24.1043 | 22.6746 | 0.0518 | 1.6262 | 1.1486 | 2.7749 | 0.4375 | 1.0802 | 1.5177 | 0.0000 | 5,119.7560 | 5,119.7560 | 0.7512 | 0.0000 | 5,138.5346 |
| **Maximum** | **52.4568** | **59.6779** | **23.5495** | **0.1136** | **8.4361** | **1.8029** | **9.9524** | **3.8977** | **1.6773** | **5.2970** | **0.0000** | **12,082.6775** | **12,082.6775** | **1.7312** | **0.0000** | **12,125.9565** |

### Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2019 | 3.6269 | 59.6779 | 23.5495 | 0.1136 | 4.8651 | 1.8029 | 6.3815 | 2.0463 | 1.6773 | 3.4456 | 0.0000 | 12,082.6775 | 12,082.6775 | 1.7312 | 0.0000 | 12,125.9565 |
| 2020 | 52.4568 | 24.1043 | 22.6746 | 0.0518 | 1.6262 | 1.1486 | 2.7749 | 0.4375 | 1.0802 | 1.5177 | 0.0000 | 5,119.7560 | 5,119.7560 | 0.7512 | 0.0000 | 5,138.5346 |
| **Maximum** | **52.4568** | **59.6779** | **23.5495** | **0.1136** | **4.8651** | **1.8029** | **6.3815** | **2.0463** | **1.6773** | **3.4456** | **0.0000** | **12,082.6775** | **12,082.6775** | **1.7312** | **0.0000** | **12,125.9565** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **0.00** | **0.00** | **0.00** | **0.00** | **35.49** | **0.00** | **28.06** | **42.71** | **0.00** | **27.17** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** |

## 2.2 Overall Operational

### Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 5.9741 | 1.4211 | 12.2207 | 8.8300e-003 | | 0.1683 | 0.1683 | | 0.1683 | 0.1683 | 0.0000 | 1,663.2139 | 1,663.2139 | 0.0519 | 0.0301 | 1,673.4825 |
| Energy | 0.0310 | 0.2645 | 0.1125 | 1.6900e-003 | | 0.0214 | 0.0214 | | 0.0214 | 0.0214 | | 337.6156 | 337.6156 | 6.4700e-003 | 6.1900e-003 | 339.6219 |
| Mobile | 1.8968 | 7.7544 | 22.4381 | 0.0772 | 6.4877 | 0.0627 | 6.5504 | 1.7340 | 0.0586 | 1.7926 | | 7,838.7813 | 7,838.7813 | 0.4011 | | 7,848.8099 |
| **Total** | **7.9018** | **9.4400** | **34.7713** | **0.0877** | **6.4877** | **0.2524** | **6.7401** | **1.7340** | **0.2483** | **1.9823** | **0.0000** | **9,839.6108** | **9,839.6108** | **0.4595** | **0.0363** | **9,861.9143** |

### Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 5.9741 | 1.4211 | 12.2207 | 8.8300e-003 | | 0.1683 | 0.1683 | | 0.1683 | 0.1683 | 0.0000 | 1,663.2139 | 1,663.2139 | 0.0519 | 0.0301 | 1,673.4825 |
| Energy | 0.0310 | 0.2645 | 0.1125 | 1.6900e-003 | | 0.0214 | 0.0214 | | 0.0214 | 0.0214 | | 337.6156 | 337.6156 | 6.4700e-003 | 6.1900e-003 | 339.6219 |
| Mobile | 1.8968 | 7.7544 | 22.4381 | 0.0772 | 6.4877 | 0.0627 | 6.5504 | 1.7340 | 0.0586 | 1.7926 | | 7,838.7813 | 7,838.7813 | 0.4011 | | 7,848.8099 |
| **Total** | **7.9018** | **9.4400** | **34.7713** | **0.0877** | **6.4877** | **0.2524** | **6.7401** | **1.7340** | **0.2483** | **1.9823** | **0.0000** | **9,839.6108** | **9,839.6108** | **0.4595** | **0.0363** | **9,861.9143** |

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

## 3.0 Construction Detail

**Construction Phase**

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|---|---|---|---|---|---|---|---|
| 1 | Demolition | Demolition | 9/1/2019 | 10/11/2019 | 5 | 30 | |
| 2 | Grading | Grading | 10/12/2019 | 11/22/2019 | 5 | 30 | |
| 3 | Building Construction | Building Construction | 11/23/2019 | 10/9/2020 | 5 | 230 | |
| 4 | Paving | Paving | 10/10/2020 | 11/6/2020 | 5 | 20 | |
| 5 | Architectural Coating | Architectural Coating | 11/7/2020 | 12/18/2020 | 5 | 30 | |

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

**Acres of Grading (Grading Phase): 10**

**Acres of Paving: 3.45**

**Residential Indoor: 471,949; Residential Outdoor: 157,316; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:**

**OffRoad Equipment**

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 3 | 8.00 | 158 | 0.38 |
| Demolition | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Grading | Excavators | 1 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

**Trips and VMT**

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---|---|---|---|---|---|---|---|---|---|---|
| Demolition | 6 | 15.00 | 0.00 | 189.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 6 | 15.00 | 0.00 | 3,125.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 165.00 | 40.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 33.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

## 3.2 Demolition - 2019

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 1.3807 | 0.0000 | 1.3807 | 0.2091 | 0.0000 | 0.2091 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.5134 | 35.7830 | 22.0600 | 0.0388 | | 1.7949 | 1.7949 | | 1.6697 | 1.6697 | | 3,816.8994 | 3,816.8994 | 1.0618 | | 3,843.4451 |
| **Total** | **3.5134** | **35.7830** | **22.0600** | **0.0388** | **1.3807** | **1.7949** | **3.1756** | **0.2091** | **1.6697** | **1.8788** | | **3,816.8994** | **3,816.8994** | **1.0618** | | **3,843.4451** |

**Unmitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0547 | 1.8924 | 0.4085 | 5.0000e-003 | 0.1101 | 7.1400e-003 | 0.1172 | 0.0302 | 6.8300e-003 | 0.0370 | | 545.2478 | 545.2478 | 0.0483 | | 546.4541 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0589 | 0.0411 | 0.4641 | 1.3100e-003 | 0.1232 | 8.8000e-004 | 0.1241 | 0.0327 | 8.1000e-004 | 0.0335 | | 130.5300 | 130.5300 | 4.1700e-003 | | 130.6342 |
| **Total** | **0.1136** | **1.9335** | **0.8726** | **6.3100e-003** | **0.2333** | **8.0200e-003** | **0.2413** | **0.0629** | **7.6400e-003** | **0.0705** | | **675.7778** | **675.7778** | **0.0524** | | **677.0883** |

## Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.6213 | 0.0000 | 0.6213 | 0.0941 | 0.0000 | 0.0941 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.5134 | 35.7830 | 22.0600 | 0.0388 | | 1.7949 | 1.7949 | | 1.6697 | 1.6697 | 0.0000 | 3,816.8994 | 3,816.8994 | 1.0618 | | 3,843.4451 |
| **Total** | **3.5134** | **35.7830** | **22.0600** | **0.0388** | **0.6213** | **1.7949** | **2.4162** | **0.0941** | **1.6697** | **1.7638** | **0.0000** | **3,816.8994** | **3,816.8994** | **1.0618** | | **3,843.4451** |

## Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0547 | 1.8924 | 0.4085 | 5.0000e-003 | 0.1101 | 7.1400e-003 | 0.1172 | 0.0302 | 6.8300e-003 | 0.0370 | | 545.2478 | 545.2478 | 0.0483 | | 546.4541 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0589 | 0.0411 | 0.4641 | 1.3100e-003 | 0.1232 | 8.8000e-004 | 0.1241 | 0.0327 | 8.1000e-004 | 0.0335 | | 130.5300 | 130.5300 | 4.1700e-003 | | 130.6342 |
| **Total** | **0.1136** | **1.9335** | **0.8726** | **6.3100e-003** | **0.2333** | **8.0200e-003** | **0.2413** | **0.0629** | **7.6400e-003** | **0.0705** | | **675.7778** | **675.7778** | **0.0524** | | **677.0883** |

## 3.3 Grading - 2019

## Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 6.4927 | 0.0000 | 6.4927 | 3.3661 | 0.0000 | 3.3661 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.5805 | 28.3480 | 16.2934 | 0.0297 | | 1.3974 | 1.3974 | | 1.2856 | 1.2856 | | 2,936.8068 | 2,936.8068 | 0.9292 | | 2,960.0361 |
| **Total** | **2.5805** | **28.3480** | **16.2934** | **0.0297** | **6.4927** | **1.3974** | **7.8901** | **3.3661** | **1.2856** | **4.6517** | | **2,936.8068** | **2,936.8068** | **0.9292** | | **2,960.0361** |

## Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.9042 | 31.2888 | 6.7541 | 0.0827 | 1.8202 | 0.1181 | 1.9383 | 0.4988 | 0.1130 | 0.6118 | | 9,015.3408 | 9,015.3408 | 0.7978 | | 9,035.2862 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0589 | 0.0411 | 0.4641 | 1.3100e-003 | 0.1232 | 8.8000e-004 | 0.1241 | 0.0327 | 8.1000e-004 | 0.0335 | | 130.5300 | 130.5300 | 4.1700e-003 | | 130.6342 |
| **Total** | **0.9631** | **31.3299** | **7.2182** | **0.0840** | **1.9434** | **0.1190** | **2.0624** | **0.5315** | **0.1138** | **0.6453** | | **9,145.8707** | **9,145.8707** | **0.8020** | | **9,165.9203** |

## Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 2.9217 | 0.0000 | 2.9217 | 1.5148 | 0.0000 | 1.5148 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.5805 | 28.3480 | 16.2934 | 0.0297 | | 1.3974 | 1.3974 | | 1.2856 | 1.2856 | 0.0000 | 2,936.8068 | 2,936.8068 | 0.9292 | | 2,960.0361 |
| **Total** | **2.5805** | **28.3480** | **16.2934** | **0.0297** | **2.9217** | **1.3974** | **4.3191** | **1.5148** | **1.2856** | **2.8003** | **0.0000** | **2,936.8068** | **2,936.8068** | **0.9292** | | **2,960.0361** |

## Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.9042 | 31.2888 | 6.7541 | 0.0827 | 1.8202 | 0.1181 | 1.9383 | 0.4988 | 0.1130 | 0.6118 | | 9,015.3408 | 9,015.3408 | 0.7978 | | 9,035.2862 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0589 | 0.0411 | 0.4641 | 1.3100e-003 | 0.1232 | 8.8000e-004 | 0.1241 | 0.0327 | 8.1000e-004 | 0.0335 | | 130.5300 | 130.5300 | 4.1700e-003 | | 130.6342 |
| **Total** | **0.9631** | **31.3299** | **7.2182** | **0.0840** | **1.9434** | **0.1190** | **2.0624** | **0.5315** | **0.1138** | **0.6453** | | **9,145.8707** | **9,145.8707** | **0.8020** | | **9,165.9203** |

## 3.4 Building Construction - 2019

### Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 2.3612 | 21.0788 | 17.1638 | 0.0269 | | 1.2899 | 1.2899 | | 1.2127 | 1.2127 | | 2,591.5802 | 2,591.5802 | 0.6313 | | 2,607.3635 |
| **Total** | **2.3612** | **21.0788** | **17.1638** | **0.0269** | | **1.2899** | **1.2899** | | **1.2127** | **1.2127** | | **2,591.5802** | **2,591.5802** | **0.6313** | | **2,607.3635** |

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.1841 | 4.9595 | 1.2804 | 0.0110 | 0.2708 | 0.0345 | 0.3053 | 0.0780 | 0.0330 | 0.1110 | | 1,184.0665 | 1,184.0665 | 0.0914 | | 1,186.3520 |
| Worker | 0.6479 | 0.4521 | 5.1053 | 0.0144 | 1.3554 | 9.6600e-003 | 1.3651 | 0.3595 | 8.9000e-003 | 0.3684 | | 1,435.8294 | 1,435.8294 | 0.0459 | | 1,436.9756 |
| **Total** | **0.8320** | **5.4116** | **6.3857** | **0.0255** | **1.6262** | **0.0442** | **1.6704** | **0.4375** | **0.0419** | **0.4794** | | **2,619.8959** | **2,619.8959** | **0.1373** | | **2,623.3276** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 2.3612 | 21.0788 | 17.1638 | 0.0269 | | 1.2899 | 1.2899 | | 1.2127 | 1.2127 | 0.0000 | 2,591.5802 | 2,591.5802 | 0.6313 | | 2,607.3635 |
| **Total** | **2.3612** | **21.0788** | **17.1638** | **0.0269** | | **1.2899** | **1.2899** | | **1.2127** | **1.2127** | **0.0000** | **2,591.5802** | **2,591.5802** | **0.6313** | | **2,607.3635** |

## Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.1841 | 4.9595 | 1.2804 | 0.0110 | 0.2708 | 0.0345 | 0.3053 | 0.0780 | 0.0330 | 0.1110 | | 1,184.0665 | 1,184.0665 | 0.0914 | | 1,186.3520 |
| Worker | 0.6479 | 0.4521 | 5.1053 | 0.0144 | 1.3554 | 9.6600e-003 | 1.3651 | 0.3595 | 8.9000e-003 | 0.3684 | | 1,435.8294 | 1,435.8294 | 0.0459 | | 1,436.9756 |
| **Total** | **0.8320** | **5.4116** | **6.3857** | **0.0255** | **1.6262** | **0.0442** | **1.6704** | **0.4375** | **0.0419** | **0.4794** | | **2,619.8959** | **2,619.8959** | **0.1373** | | **2,623.3276** |

## 3.4 Building Construction - 2020

### Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 2.1198 | 19.1860 | 16.8485 | 0.0269 | | 1.1171 | 1.1171 | | 1.0503 | 1.0503 | | 2,553.0631 | 2,553.0631 | 0.6229 | | 2,568.6345 |
| **Total** | **2.1198** | **19.1860** | **16.8485** | **0.0269** | | **1.1171** | **1.1171** | | **1.0503** | **1.0503** | | **2,553.0631** | **2,553.0631** | **0.6229** | | **2,568.6345** |

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.1495 | 4.5103 | 1.1491 | 0.0110 | 0.2708 | 0.0221 | 0.2929 | 0.0780 | 0.0211 | 0.0991 | | 1,176.1603 | 1,176.1603 | 0.0868 | | 1,178.3295 |
| Worker | 0.6055 | 0.4080 | 4.6771 | 0.0140 | 1.3554 | 9.5100e-003 | 1.3650 | 0.3595 | 8.7600e-003 | 0.3683 | | 1,390.5326 | 1,390.5326 | 0.0415 | | 1,391.5707 |
| **Total** | **0.7550** | **4.9183** | **5.8261** | **0.0249** | **1.6262** | **0.0316** | **1.6578** | **0.4375** | **0.0299** | **0.4674** | | **2,566.6930** | **2,566.6930** | **0.1283** | | **2,569.9001** |

## Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 2.1198 | 19.1860 | 16.8485 | 0.0269 | | 1.1171 | 1.1171 | | 1.0503 | 1.0503 | 0.0000 | 2,553.0631 | 2,553.0631 | 0.6229 | | 2,568.6345 |
| **Total** | **2.1198** | **19.1860** | **16.8485** | **0.0269** | | **1.1171** | **1.1171** | | **1.0503** | **1.0503** | **0.0000** | **2,553.0631** | **2,553.0631** | **0.6229** | | **2,568.6345** |

## Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.1495 | 4.5103 | 1.1491 | 0.0110 | 0.2708 | 0.0221 | 0.2929 | 0.0780 | 0.0211 | 0.0991 | | 1,176.1603 | 1,176.1603 | 0.0868 | | 1,178.3295 |
| Worker | 0.6055 | 0.4080 | 4.6771 | 0.0140 | 1.3554 | 9.5100e-003 | 1.3650 | 0.3595 | 8.7600e-003 | 0.3683 | | 1,390.5326 | 1,390.5326 | 0.0415 | | 1,391.5707 |
| **Total** | **0.7550** | **4.9183** | **5.8261** | **0.0249** | **1.6262** | **0.0316** | **1.6578** | **0.4375** | **0.0299** | **0.4674** | | **2,566.6930** | **2,566.6930** | **0.1283** | | **2,569.9001** |

# 3.5 Paving - 2020

## Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.3566 | 14.0656 | 14.6521 | 0.0228 | | 0.7528 | 0.7528 | | 0.6926 | 0.6926 | | 2,207.7334 | 2,207.7334 | 0.7140 | | 2,225.5841 |
| Paving | 0.2057 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **1.5622** | **14.0656** | **14.6521** | **0.0228** | | **0.7528** | **0.7528** | | **0.6926** | **0.6926** | | **2,207.7334** | **2,207.7334** | **0.7140** | | **2,225.5841** |

## Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0550 | 0.0371 | 0.4252 | 1.2700e-003 | 0.1232 | 8.6000e-004 | 0.1241 | 0.0327 | 8.0000e-004 | 0.0335 | | 126.4121 | 126.4121 | 3.7700e-003 | | 126.5064 |
| **Total** | **0.0550** | **0.0371** | **0.4252** | **1.2700e-003** | **0.1232** | **8.6000e-004** | **0.1241** | **0.0327** | **8.0000e-004** | **0.0335** | | **126.4121** | **126.4121** | **3.7700e-003** | | **126.5064** |

## Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.3566 | 14.0656 | 14.6521 | 0.0228 | | 0.7528 | 0.7528 | | 0.6926 | 0.6926 | 0.0000 | 2,207.7334 | 2,207.7334 | 0.7140 | | 2,225.5841 |
| Paving | 0.2057 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **1.5622** | **14.0656** | **14.6521** | **0.0228** | | **0.7528** | **0.7528** | | **0.6926** | **0.6926** | **0.0000** | **2,207.7334** | **2,207.7334** | **0.7140** | | **2,225.5841** |

## Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0550 | 0.0371 | 0.4252 | 1.2700e-003 | 0.1232 | 8.6000e-004 | 0.1241 | 0.0327 | 8.0000e-004 | 0.0335 | | 126.4121 | 126.4121 | 3.7700e-003 | | 126.5064 |
| **Total** | **0.0550** | **0.0371** | **0.4252** | **1.2700e-003** | **0.1232** | **8.6000e-004** | **0.1241** | **0.0327** | **8.0000e-004** | **0.0335** | | **126.4121** | **126.4121** | **3.7700e-003** | | **126.5064** |

## 3.6 Architectural Coating - 2020

### Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 52.0935 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2422 | 1.6838 | 1.8314 | 2.9700e-003 | | 0.1109 | 0.1109 | | 0.1109 | 0.1109 | | 281.4481 | 281.4481 | 0.0218 | | 281.9928 |
| **Total** | **52.3357** | **1.6838** | **1.8314** | **2.9700e-003** | | **0.1109** | **0.1109** | | **0.1109** | **0.1109** | | **281.4481** | **281.4481** | **0.0218** | | **281.9928** |

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.1211 | 0.0816 | 0.9354 | 2.7900e-003 | 0.2711 | 1.9000e-003 | 0.2730 | 0.0719 | 1.7500e-003 | 0.0737 | | 278.1065 | 278.1065 | 8.3000e-003 | | 278.3141 |
| **Total** | **0.1211** | **0.0816** | **0.9354** | **2.7900e-003** | **0.2711** | **1.9000e-003** | **0.2730** | **0.0719** | **1.7500e-003** | **0.0737** | | **278.1065** | **278.1065** | **8.3000e-003** | | **278.3141** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 52.0935 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2422 | 1.6838 | 1.8314 | 2.9700e-003 | | 0.1109 | 0.1109 | | 0.1109 | 0.1109 | 0.0000 | 281.4481 | 281.4481 | 0.0218 | | 281.9928 |
| **Total** | **52.3357** | **1.6838** | **1.8314** | **2.9700e-003** | | **0.1109** | **0.1109** | | **0.1109** | **0.1109** | **0.0000** | **281.4481** | **281.4481** | **0.0218** | | **281.9928** |

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.1211 | 0.0816 | 0.9354 | 2.7900e-003 | 0.2711 | 1.9000e-003 | 0.2730 | 0.0719 | 1.7500e-003 | 0.0737 | | 278.1065 | 278.1065 | 8.3000e-003 | | 278.3141 |
| **Total** | **0.1211** | **0.0816** | **0.9354** | **2.7900e-003** | **0.2711** | **1.9000e-003** | **0.2730** | **0.0719** | **1.7500e-003** | **0.0737** | | **278.1065** | **278.1065** | **8.3000e-003** | | **278.3141** |

# 4.0 Operational Detail - Mobile

## 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 1.8968 | 7.7544 | 22.4381 | 0.0772 | 6.4877 | 0.0627 | 6.5504 | 1.7340 | 0.0586 | 1.7926 | | 7,838.7813 | 7,838.7813 | 0.4011 | | 7,848.8099 |
| Unmitigated | 1.8968 | 7.7544 | 22.4381 | 0.0772 | 6.4877 | 0.0627 | 6.5504 | 1.7340 | 0.0586 | 1.7926 | | 7,838.7813 | 7,838.7813 | 0.4011 | | 7,848.8099 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Condo/Townhouse High Rise | 1,072.00 | 1,072.00 | 1072.00 | 3,059,605 | 3,059,605 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Other Non-Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Total | 1,072.00 | 1,072.00 | 1,072.00 | 3,059,605 | 3,059,605 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Condo/Townhouse High Rise | 10.80 | 7.30 | 7.50 | 41.50 | 19.00 | 39.50 | 86 | 11 | 3 |
| Other Asphalt Surfaces | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Other Non-Asphalt Surfaces | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Parking Lot | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Condo/Townhouse High Rise | 0.593936 | 0.041843 | 0.182569 | 0.108325 | 0.016436 | 0.005513 | 0.015940 | 0.023523 | 0.001912 | 0.001972 | 0.006090 | 0.000748 | 0.001193 |
| Other Asphalt Surfaces | 0.593936 | 0.041843 | 0.182569 | 0.108325 | 0.016436 | 0.005513 | 0.015940 | 0.023523 | 0.001912 | 0.001972 | 0.006090 | 0.000748 | 0.001193 |
| Other Non-Asphalt Surfaces | 0.593936 | 0.041843 | 0.182569 | 0.108325 | 0.016436 | 0.005513 | 0.015940 | 0.023523 | 0.001912 | 0.001972 | 0.006090 | 0.000748 | 0.001193 |
| Parking Lot | 0.593936 | 0.041843 | 0.182569 | 0.108325 | 0.016436 | 0.005513 | 0.015940 | 0.023523 | 0.001912 | 0.001972 | 0.006090 | 0.000748 | 0.001193 |

# 5.0 Energy Detail

Historical Energy Use: N

## 5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0310 | 0.2645 | 0.1125 | 1.6900e-003 | | 0.0214 | 0.0214 | | 0.0214 | 0.0214 | | 337.6156 | 337.6156 | 6.4700e-003 | 6.1900e-003 | 339.6219 |
| NaturalGas Unmitigated | 0.0310 | 0.2645 | 0.1125 | 1.6900e-003 | | 0.0214 | 0.0214 | | 0.0214 | 0.0214 | | 337.6156 | 337.6156 | 6.4700e-003 | 6.1900e-003 | 339.6219 |

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Condo/Townhouse High Rise | 2869.73 | 0.0310 | 0.2645 | 0.1125 | 1.6900e-003 | | 0.0214 | 0.0214 | | 0.0214 | 0.0214 | | 337.6156 | 337.6156 | 6.4700e-003 | 6.1900e-003 | 339.6219 |
| Other 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 |
| 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 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **0.0310** | **0.2645** | **0.1125** | **1.6900e-003** | | **0.0214** | **0.0214** | | **0.0214** | **0.0214** | | **337.6156** | **337.6156** | **6.4700e-003** | **6.1900e-003** | **339.6219** |

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Condo/Townhouse High Rise | 2.86973 | 0.0310 | 0.2645 | 0.1125 | 1.6900e-003 | | 0.0214 | 0.0214 | | 0.0214 | 0.0214 | | 337.6156 | 337.6156 | 6.4700e-003 | 6.1900e-003 | 339.6219 |
| Other 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 |
| 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 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **0.0310** | **0.2645** | **0.1125** | **1.6900e-003** | | **0.0214** | **0.0214** | | **0.0214** | **0.0214** | | **337.6156** | **337.6156** | **6.4700e-003** | **6.1900e-003** | **339.6219** |

# 6.0 Area Detail

## 6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 5.9741 | 1.4211 | 12.2207 | 8.8300e-003 | | 0.1683 | 0.1683 | | 0.1683 | 0.1683 | 0.0000 | 1,663.2139 | 1,663.2139 | 0.0519 | 0.0301 | 1,673.4825 |
| Unmitigated | 5.9741 | 1.4211 | 12.2207 | 8.8300e-003 | | 0.1683 | 0.1683 | | 0.1683 | 0.1683 | 0.0000 | 1,663.2139 | 1,663.2139 | 0.0519 | 0.0301 | 1,673.4825 |

## 6.2 Area by SubCategory

**Unmitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.4282 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 5.0407 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.1505 | 1.2864 | 0.5474 | 8.2100e-003 | | 0.1040 | 0.1040 | | 0.1040 | 0.1040 | 0.0000 | 1,642.2353 | 1,642.2353 | 0.0315 | 0.0301 | 1,651.9943 |
| Landscaping | 0.3547 | 0.1347 | 11.6733 | 6.2000e-004 | | 0.0643 | 0.0643 | | 0.0643 | 0.0643 | | 20.9786 | 20.9786 | 0.0204 | | 21.4882 |
| **Total** | **5.9741** | **1.4211** | **12.2207** | **8.8300e-003** | | **0.1683** | **0.1683** | | **0.1683** | **0.1683** | **0.0000** | **1,663.2139** | **1,663.2139** | **0.0519** | **0.0301** | **1,673.4825** |

## Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.4282 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 5.0407 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.1505 | 1.2864 | 0.5474 | 8.2100e-003 | | 0.1040 | 0.1040 | | 0.1040 | 0.1040 | 0.0000 | 1,642.2353 | 1,642.2353 | 0.0315 | 0.0301 | 1,651.9943 |
| Landscaping | 0.3547 | 0.1347 | 11.6733 | 6.2000e-004 | | 0.0643 | 0.0643 | | 0.0643 | 0.0643 | | 20.9786 | 20.9786 | 0.0204 | | 21.4882 |
| **Total** | **5.9741** | **1.4211** | **12.2207** | **8.8300e-003** | | **0.1683** | **0.1683** | | **0.1683** | **0.1683** | **0.0000** | **1,663.2139** | **1,663.2139** | **0.0519** | **0.0301** | **1,673.4825** |

# Moss Street - Unmitigated Construction and 2021 Operations

**San Diego County, Winter**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| Other Asphalt Surfaces | 1.30 | Acre | 1.30 | 56,645.00 | 0 |
| Other Non-Asphalt Surfaces | 82.08 | 1000sqft | 1.88 | 82,081.00 | 0 |
| Parking Lot | 66.00 | Space | 0.27 | 11,556.00 | 0 |
| Condo/Townhouse High Rise | 141.00 | Dwelling Unit | 3.45 | 233,061.00 | 403 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.6 | **Precipitation Freq (Days)** | 40 |
| **Climate Zone** | 13 | | | **Operational Year** | 2021 |
| **Utility Company** | San Diego Gas & Electric | | | | |
| **CO2 Intensity (lb/MWhr)** | 456 | **CH4 Intensity (lb/MWhr)** | 0.029 | **N2O Intensity (lb/MWhr)** | 0.006 |

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

Project Characteristics - Unmitigated Construction and 2021 Project Operations
CO2 intensity adjusted based on SD Gas & Electric renewable energy portfolio

Land Use - Information from final site plan and RFI response (Most recent project information as of April 2, 2019)

Construction Phase - Adjustments based on applicant-provided information
Applicant stated no site prep phase; demolition, grading and architectural coating are 30 days
(most recent project information as of April 2, 2019)

Demolition - Measured from Google Earth

Grading - Inputs based on final site plan (most recent project information as of April 2, 2019)
10,000 cubic yards of material to be imported and 15,000 cubic yards of material to be exported

Architectural Coating - 50 g/L Flat Coatings - VOC limit based on SDAPCD Rule 67.0.1

Vehicle Trips - Trip rate adjusted based on TIA report for proposed project
Consistent with the TIA, a transit reduction of 5% was applied

Woodstoves - No woodburning

Area Coating - 50 g/L Flat Coatings - VOC limit based on SDAPCD Rule 67.0.1

Construction Off-road Equipment Mitigation - Fugitive dust control measures

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblArchitecturalCoating | EF_Residential_Exterior | 250.00 | 50.00 |
| tblArchitecturalCoating | EF_Residential_Interior | 250.00 | 50.00 |
| tblAreaCoating | Area_EF_Residential_Exterior | 250 | 50 |
| tblAreaCoating | Area_EF_Residential_Interior | 250 | 50 |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 0 | 15 |
| tblConstructionPhase | NumDays | 20.00 | 30.00 |
| tblConstructionPhase | NumDays | 20.00 | 30.00 |
| tblConstructionPhase | NumDays | 20.00 | 30.00 |
| tblFireplaces | FireplaceWoodMass | 3,078.40 | 0.00 |
| tblFireplaces | NumberWood | 49.35 | 0.00 |
| tblGrading | AcresOfGrading | 15.00 | 10.00 |
| tblGrading | MaterialExported | 0.00 | 15,000.00 |
| tblGrading | MaterialImported | 0.00 | 10,000.00 |
| tblLandUse | LandUseSquareFeet | 56,628.00 | 56,645.00 |
| tblLandUse | LandUseSquareFeet | 82,080.00 | 82,081.00 |
| tblLandUse | LandUseSquareFeet | 26,400.00 | 11,556.00 |
| tblLandUse | LandUseSquareFeet | 141,000.00 | 233,061.00 |
| tblLandUse | LotAcreage | 0.59 | 0.27 |
| tblLandUse | LotAcreage | 2.20 | 3.45 |
| tblProjectCharacteristics | CO2IntensityFactor | 720.49 | 456 |
| tblVehicleTrips | HO_TTP | 39.60 | 39.50 |
| tblVehicleTrips | HS_TTP | 18.80 | 19.00 |
| tblVehicleTrips | HW_TTP | 41.60 | 41.50 |
| tblVehicleTrips | ST_TR | 4.31 | 7.60 |
| tblVehicleTrips | SU_TR | 3.43 | 7.60 |
| tblVehicleTrips | WD_TR | 4.18 | 7.60 |
| tblWoodstoves | NumberCatalytic | 7.05 | 0.00 |

| | | | |
|---|---|---|---|
| tblWoodstoves | NumberNoncatalytic | 7.05 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 3,019.20 | 0.00 |

# 2.0 Emissions Summary

## 2.1 Overall Construction (Maximum Daily Emission)

### Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2019 | 3.6362 | 60.0036 | 23.9701 | 0.1121 | 8.4361 | 1.8031 | 9.9552 | 3.8977 | 1.6775 | 5.2996 | 0.0000 | 11,922.9776 | 11,922.9776 | 1.7598 | 0.0000 | 11,966.9733 |
| 2020 | 52.4729 | 24.1508 | 22.5333 | 0.0507 | 1.6262 | 1.1491 | 2.7753 | 0.4375 | 1.0806 | 1.5181 | 0.0000 | 5,004.2796 | 5,004.2796 | 0.7544 | 0.0000 | 5,023.1387 |
| **Maximum** | **52.4729** | **60.0036** | **23.9701** | **0.1121** | **8.4361** | **1.8031** | **9.9552** | **3.8977** | **1.6775** | **5.2996** | **0.0000** | **11,922.9776** | **11,922.9776** | **1.7598** | **0.0000** | **11,966.9733** |

### Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2019 | 3.6362 | 60.0036 | 23.9701 | 0.1121 | 4.8651 | 1.8031 | 6.3842 | 2.0463 | 1.6775 | 3.4483 | 0.0000 | 11,922.9776 | 11,922.9776 | 1.7598 | 0.0000 | 11,966.9733 |
| 2020 | 52.4729 | 24.1508 | 22.5333 | 0.0507 | 1.6262 | 1.1491 | 2.7753 | 0.4375 | 1.0806 | 1.5181 | 0.0000 | 5,004.2796 | 5,004.2796 | 0.7544 | 0.0000 | 5,023.1387 |
| **Maximum** | **52.4729** | **60.0036** | **23.9701** | **0.1121** | **4.8651** | **1.8031** | **6.3842** | **2.0463** | **1.6775** | **3.4483** | **0.0000** | **11,922.9776** | **11,922.9776** | **1.7598** | **0.0000** | **11,966.9733** |

| | **ROG** | **NOx** | **CO** | **SO2** | **Fugitive PM10** | **Exhaust PM10** | **PM10 Total** | **Fugitive PM2.5** | **Exhaust PM2.5** | **PM2.5 Total** | **Bio- CO2** | **NBio-CO2** | **Total CO2** | **CH4** | **N20** | **CO2e** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **0.00** | **0.00** | **0.00** | **0.00** | **35.49** | **0.00** | **28.05** | **42.71** | **0.00** | **27.16** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** |

## 2.2 Overall Operational

### Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 5.9741 | 1.4211 | 12.2207 | 8.8300e-003 | | 0.1683 | 0.1683 | | 0.1683 | 0.1683 | 0.0000 | 1,663.2139 | 1,663.2139 | 0.0519 | 0.0301 | 1,673.4825 |
| Energy | 0.0310 | 0.2645 | 0.1125 | 1.6900e-003 | | 0.0214 | 0.0214 | | 0.0214 | 0.0214 | | 337.6156 | 337.6156 | 6.4700e-003 | 6.1900e-003 | 339.6219 |
| Mobile | 1.8421 | 7.9820 | 22.0194 | 0.0732 | 6.4877 | 0.0632 | 6.5509 | 1.7340 | 0.0591 | 1.7930 | | 7,434.5694 | 7,434.5694 | 0.4023 | | 7,444.6265 |
| **Total** | **7.8471** | **9.6676** | **34.3526** | **0.0837** | **6.4877** | **0.2529** | **6.7406** | **1.7340** | **0.2488** | **1.9827** | **0.0000** | **9,435.3988** | **9,435.3988** | **0.4606** | **0.0363** | **9,457.7309** |

### Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 5.9741 | 1.4211 | 12.2207 | 8.8300e-003 | | 0.1683 | 0.1683 | | 0.1683 | 0.1683 | 0.0000 | 1,663.2139 | 1,663.2139 | 0.0519 | 0.0301 | 1,673.4825 |
| Energy | 0.0310 | 0.2645 | 0.1125 | 1.6900e-003 | | 0.0214 | 0.0214 | | 0.0214 | 0.0214 | | 337.6156 | 337.6156 | 6.4700e-003 | 6.1900e-003 | 339.6219 |
| Mobile | 1.8421 | 7.9820 | 22.0194 | 0.0732 | 6.4877 | 0.0632 | 6.5509 | 1.7340 | 0.0591 | 1.7930 | | 7,434.5694 | 7,434.5694 | 0.4023 | | 7,444.6265 |
| **Total** | **7.8471** | **9.6676** | **34.3526** | **0.0837** | **6.4877** | **0.2529** | **6.7406** | **1.7340** | **0.2488** | **1.9827** | **0.0000** | **9,435.3988** | **9,435.3988** | **0.4606** | **0.0363** | **9,457.7309** |

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

## 3.0 Construction Detail

**Construction Phase**

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|---|---|---|---|---|---|---|---|
| 1 | Demolition | Demolition | 9/1/2019 | 10/11/2019 | 5 | 30 | |
| 2 | Grading | Grading | 10/12/2019 | 11/22/2019 | 5 | 30 | |
| 3 | Building Construction | Building Construction | 11/23/2019 | 10/9/2020 | 5 | 230 | |
| 4 | Paving | Paving | 10/10/2020 | 11/6/2020 | 5 | 20 | |
| 5 | Architectural Coating | Architectural Coating | 11/7/2020 | 12/18/2020 | 5 | 30 | |

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

**Acres of Grading (Grading Phase): 10**

**Acres of Paving: 3.45**

**Residential Indoor: 471,949; Residential Outdoor: 157,316; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:**

**OffRoad Equipment**

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 3 | 8.00 | 158 | 0.38 |
| Demolition | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Grading | Excavators | 1 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

## Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---|---|---|---|---|---|---|---|---|---|---|
| Demolition | 6 | 15.00 | 0.00 | 189.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 6 | 15.00 | 0.00 | 3,125.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 165.00 | 40.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 33.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

## 3.2 Demolition - 2019

### Unmitigated Construction On-Site

| Category | lb/day | | | | | | | | | | lb/day | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fugitive Dust | | | | | 1.3807 | 0.0000 | 1.3807 | 0.2091 | 0.0000 | 0.2091 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.5134 | 35.7830 | 22.0600 | 0.0388 | | 1.7949 | 1.7949 | | 1.6697 | 1.6697 | | 3,816.8994 | 3,816.8994 | 1.0618 | | 3,843.4451 |
| **Total** | **3.5134** | **35.7830** | **22.0600** | **0.0388** | **1.3807** | **1.7949** | **3.1756** | **0.2091** | **1.6697** | **1.8788** | | **3,816.8994** | **3,816.8994** | **1.0618** | | **3,843.4451** |

### Unmitigated Construction Off-Site

| Category | lb/day | | | | | | | | | | lb/day | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0666 | 0.0462 | 0.4386 | 1.2300e-003 | 0.1232 | 8.8000e-004 | 0.1241 | 0.0327 | 8.1000e-004 | 0.0335 | | 122.5371 | 122.5371 | 3.9500e-003 | | 122.6359 |
| **Total** | **0.1228** | **1.9579** | **0.8764** | **6.1400e-003** | **0.2333** | **8.1900e-003** | **0.2415** | **0.0629** | **7.8000e-003** | **0.0707** | | **658.6096** | **658.6096** | **0.0540** | | **659.9585** |

## Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.6213 | 0.0000 | 0.6213 | 0.0941 | 0.0000 | 0.0941 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.5134 | 35.7830 | 22.0600 | 0.0388 | | 1.7949 | 1.7949 | | 1.6697 | 1.6697 | 0.0000 | 3,816.8994 | 3,816.8994 | 1.0618 | | 3,843.4451 |
| **Total** | **3.5134** | **35.7830** | **22.0600** | **0.0388** | **0.6213** | **1.7949** | **2.4162** | **0.0941** | **1.6697** | **1.7638** | **0.0000** | **3,816.8994** | **3,816.8994** | **1.0618** | | **3,843.4451** |

## Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0562 | 1.9117 | 0.4378 | 4.9100e-003 | 0.1101 | 7.3100e-003 | 0.1174 | 0.0302 | 6.9900e-003 | 0.0372 | | 536.0726 | 536.0726 | 0.0500 | | 537.3225 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0666 | 0.0462 | 0.4386 | 1.2300e-003 | 0.1232 | 8.8000e-004 | 0.1241 | 0.0327 | 8.1000e-004 | 0.0335 | | 122.5371 | 122.5371 | 3.9500e-003 | | 122.6359 |
| **Total** | **0.1228** | **1.9579** | **0.8764** | **6.1400e-003** | **0.2333** | **8.1900e-003** | **0.2415** | **0.0629** | **7.8000e-003** | **0.0707** | | **658.6096** | **658.6096** | **0.0540** | | **659.9585** |

# 3.3 Grading - 2019

## Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 6.4927 | 0.0000 | 6.4927 | 3.3661 | 0.0000 | 3.3661 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.5805 | 28.3480 | 16.2934 | 0.0297 | | 1.3974 | 1.3974 | | 1.2856 | 1.2856 | | 2,936.8068 | 2,936.8068 | 0.9292 | | 2,960.0361 |
| **Total** | **2.5805** | **28.3480** | **16.2934** | **0.0297** | **6.4927** | **1.3974** | **7.8901** | **3.3661** | **1.2856** | **4.6517** | | **2,936.8068** | **2,936.8068** | **0.9292** | | **2,960.0361** |

## Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.9297 | 31.6095 | 7.2382 | 0.0813 | 1.8202 | 0.1208 | 1.9410 | 0.4988 | 0.1156 | 0.6145 | | 8,863.6338 | 8,863.6338 | 0.8267 | | 8,884.3013 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0666 | 0.0462 | 0.4386 | 1.2300e-003 | 0.1232 | 8.8000e-004 | 0.1241 | 0.0327 | 8.1000e-004 | 0.0335 | | 122.5371 | 122.5371 | 3.9500e-003 | | 122.6359 |
| **Total** | **0.9963** | **31.6556** | **7.6768** | **0.0825** | **1.9434** | **0.1217** | **2.0651** | **0.5315** | **0.1164** | **0.6479** | | **8,986.1708** | **8,986.1708** | **0.8307** | | **9,006.9372** |

## Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 2.9217 | 0.0000 | 2.9217 | 1.5148 | 0.0000 | 1.5148 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.5805 | 28.3480 | 16.2934 | 0.0297 | | 1.3974 | 1.3974 | | 1.2856 | 1.2856 | 0.0000 | 2,936.8068 | 2,936.8068 | 0.9292 | | 2,960.0361 |
| **Total** | **2.5805** | **28.3480** | **16.2934** | **0.0297** | **2.9217** | **1.3974** | **4.3191** | **1.5148** | **1.2856** | **2.8003** | **0.0000** | **2,936.8068** | **2,936.8068** | **0.9292** | | **2,960.0361** |

## Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.9297 | 31.6095 | 7.2382 | 0.0813 | 1.8202 | 0.1208 | 1.9410 | 0.4988 | 0.1156 | 0.6145 | | 8,863.6338 | 8,863.6338 | 0.8267 | | 8,884.3013 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0666 | 0.0462 | 0.4386 | 1.2300e-003 | 0.1232 | 8.8000e-004 | 0.1241 | 0.0327 | 8.1000e-004 | 0.0335 | | 122.5371 | 122.5371 | 3.9500e-003 | | 122.6359 |
| **Total** | **0.9963** | **31.6556** | **7.6768** | **0.0825** | **1.9434** | **0.1217** | **2.0651** | **0.5315** | **0.1164** | **0.6479** | | **8,986.1708** | **8,986.1708** | **0.8307** | | **9,006.9372** |

## 3.4 Building Construction - 2019

### Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 2.3612 | 21.0788 | 17.1638 | 0.0269 | | 1.2899 | 1.2899 | | 1.2127 | 1.2127 | | 2,591.5802 | 2,591.5802 | 0.6313 | | 2,607.3635 |
| **Total** | **2.3612** | **21.0788** | **17.1638** | **0.0269** | | **1.2899** | **1.2899** | | **1.2127** | **1.2127** | | **2,591.5802** | **2,591.5802** | **0.6313** | | **2,607.3635** |

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.1920 | 4.9635 | 1.4196 | 0.0108 | 0.2708 | 0.0351 | 0.3059 | 0.0780 | 0.0336 | 0.1115 | | 1,154.0010 | 1,154.0010 | 0.0973 | | 1,156.4323 |
| Worker | 0.7327 | 0.5078 | 4.8245 | 0.0135 | 1.3554 | 9.6600e-003 | 1.3651 | 0.3595 | 8.9000e-003 | 0.3684 | | 1,347.9077 | 1,347.9077 | 0.0435 | | 1,348.9950 |
| **Total** | **0.9248** | **5.4713** | **6.2441** | **0.0243** | **1.6262** | **0.0448** | **1.6710** | **0.4375** | **0.0425** | **0.4800** | | **2,501.9087** | **2,501.9087** | **0.1407** | | **2,505.4273** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 2.3612 | 21.0788 | 17.1638 | 0.0269 | | 1.2899 | 1.2899 | | 1.2127 | 1.2127 | 0.0000 | 2,591.5802 | 2,591.5802 | 0.6313 | | 2,607.3635 |
| **Total** | **2.3612** | **21.0788** | **17.1638** | **0.0269** | | **1.2899** | **1.2899** | | **1.2127** | **1.2127** | **0.0000** | **2,591.5802** | **2,591.5802** | **0.6313** | | **2,607.3635** |

## Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.1920 | 4.9635 | 1.4196 | 0.0108 | 0.2708 | 0.0351 | 0.3059 | 0.0780 | 0.0336 | 0.1115 | | 1,154.0010 | 1,154.0010 | 0.0973 | | 1,156.4323 |
| Worker | 0.7327 | 0.5078 | 4.8245 | 0.0135 | 1.3554 | 9.6600e-003 | 1.3651 | 0.3595 | 8.9000e-003 | 0.3684 | | 1,347.9077 | 1,347.9077 | 0.0435 | | 1,348.9950 |
| **Total** | **0.9248** | **5.4713** | **6.2441** | **0.0243** | **1.6262** | **0.0448** | **1.6710** | **0.4375** | **0.0425** | **0.4800** | | **2,501.9087** | **2,501.9087** | **0.1407** | | **2,505.4273** |

## 3.4 Building Construction - 2020

### Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 2.1198 | 19.1860 | 16.8485 | 0.0269 | | 1.1171 | 1.1171 | | 1.0503 | 1.0503 | | 2,553.0631 | 2,553.0631 | 0.6229 | | 2,568.6345 |
| **Total** | **2.1198** | **19.1860** | **16.8485** | **0.0269** | | **1.1171** | **1.1171** | | **1.0503** | **1.0503** | | **2,553.0631** | **2,553.0631** | **0.6229** | | **2,568.6345** |

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.1566 | 4.5067 | 1.2752 | 0.0107 | 0.2708 | 0.0225 | 0.2933 | 0.0780 | 0.0215 | 0.0995 | | 1,145.8489 | 1,145.8489 | 0.0922 | | 1,148.1539 |
| Worker | 0.6858 | 0.4580 | 4.4096 | 0.0131 | 1.3554 | 9.5100e-003 | 1.3650 | 0.3595 | 8.7600e-003 | 0.3683 | | 1,305.3677 | 1,305.3677 | 0.0393 | | 1,306.3503 |
| **Total** | **0.8423** | **4.9647** | **5.6848** | **0.0238** | **1.6262** | **0.0320** | **1.6582** | **0.4375** | **0.0303** | **0.4678** | | **2,451.2166** | **2,451.2166** | **0.1315** | | **2,454.5042** |

## Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 2.1198 | 19.1860 | 16.8485 | 0.0269 | | 1.1171 | 1.1171 | | 1.0503 | 1.0503 | 0.0000 | 2,553.0631 | 2,553.0631 | 0.6229 | | 2,568.6345 |
| **Total** | **2.1198** | **19.1860** | **16.8485** | **0.0269** | | **1.1171** | **1.1171** | | **1.0503** | **1.0503** | **0.0000** | **2,553.0631** | **2,553.0631** | **0.6229** | | **2,568.6345** |

## Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.1566 | 4.5067 | 1.2752 | 0.0107 | 0.2708 | 0.0225 | 0.2933 | 0.0780 | 0.0215 | 0.0995 | | 1,145.8489 | 1,145.8489 | 0.0922 | | 1,148.1539 |
| Worker | 0.6858 | 0.4580 | 4.4096 | 0.0131 | 1.3554 | 9.5100e-003 | 1.3650 | 0.3595 | 8.7600e-003 | 0.3683 | | 1,305.3677 | 1,305.3677 | 0.0393 | | 1,306.3503 |
| **Total** | **0.8423** | **4.9647** | **5.6848** | **0.0238** | **1.6262** | **0.0320** | **1.6582** | **0.4375** | **0.0303** | **0.4678** | | **2,451.2166** | **2,451.2166** | **0.1315** | | **2,454.5042** |

# 3.5 Paving - 2020

## Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.3566 | 14.0656 | 14.6521 | 0.0228 | | 0.7528 | 0.7528 | | 0.6926 | 0.6926 | | 2,207.7334 | 2,207.7334 | 0.7140 | | 2,225.5841 |
| Paving | 0.2057 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **1.5622** | **14.0656** | **14.6521** | **0.0228** | | **0.7528** | **0.7528** | | **0.6926** | **0.6926** | | **2,207.7334** | **2,207.7334** | **0.7140** | | **2,225.5841** |

## Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0623 | 0.0416 | 0.4009 | 1.1900e-003 | 0.1232 | 8.6000e-004 | 0.1241 | 0.0327 | 8.0000e-004 | 0.0335 | | 118.6698 | 118.6698 | 3.5700e-003 | | 118.7591 |
| **Total** | **0.0623** | **0.0416** | **0.4009** | **1.1900e-003** | **0.1232** | **8.6000e-004** | **0.1241** | **0.0327** | **8.0000e-004** | **0.0335** | | **118.6698** | **118.6698** | **3.5700e-003** | | **118.7591** |

## Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.3566 | 14.0656 | 14.6521 | 0.0228 | | 0.7528 | 0.7528 | | 0.6926 | 0.6926 | 0.0000 | 2,207.7334 | 2,207.7334 | 0.7140 | | 2,225.5841 |
| Paving | 0.2057 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **1.5622** | **14.0656** | **14.6521** | **0.0228** | | **0.7528** | **0.7528** | | **0.6926** | **0.6926** | **0.0000** | **2,207.7334** | **2,207.7334** | **0.7140** | | **2,225.5841** |

## Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0623 | 0.0416 | 0.4009 | 1.1900e-003 | 0.1232 | 8.6000e-004 | 0.1241 | 0.0327 | 8.0000e-004 | 0.0335 | | 118.6698 | 118.6698 | 3.5700e-003 | | 118.7591 |
| **Total** | **0.0623** | **0.0416** | **0.4009** | **1.1900e-003** | **0.1232** | **8.6000e-004** | **0.1241** | **0.0327** | **8.0000e-004** | **0.0335** | | **118.6698** | **118.6698** | **3.5700e-003** | | **118.7591** |

## 3.6 Architectural Coating - 2020

### Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 52.0935 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2422 | 1.6838 | 1.8314 | 2.9700e-003 | | 0.1109 | 0.1109 | | 0.1109 | 0.1109 | | 281.4481 | 281.4481 | 0.0218 | | 281.9928 |
| **Total** | **52.3357** | **1.6838** | **1.8314** | **2.9700e-003** | | **0.1109** | **0.1109** | | **0.1109** | **0.1109** | | **281.4481** | **281.4481** | **0.0218** | | **281.9928** |

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.1372 | 0.0916 | 0.8819 | 2.6200e-003 | 0.2711 | 1.9000e-003 | 0.2730 | 0.0719 | 1.7500e-003 | 0.0737 | | 261.0735 | 261.0735 | 7.8600e-003 | | 261.2701 |
| **Total** | **0.1372** | **0.0916** | **0.8819** | **2.6200e-003** | **0.2711** | **1.9000e-003** | **0.2730** | **0.0719** | **1.7500e-003** | **0.0737** | | **261.0735** | **261.0735** | **7.8600e-003** | | **261.2701** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 52.0935 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2422 | 1.6838 | 1.8314 | 2.9700e-003 | | 0.1109 | 0.1109 | | 0.1109 | 0.1109 | 0.0000 | 281.4481 | 281.4481 | 0.0218 | | 281.9928 |
| **Total** | **52.3357** | **1.6838** | **1.8314** | **2.9700e-003** | | **0.1109** | **0.1109** | | **0.1109** | **0.1109** | **0.0000** | **281.4481** | **281.4481** | **0.0218** | | **281.9928** |

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.1372 | 0.0916 | 0.8819 | 2.6200e-003 | 0.2711 | 1.9000e-003 | 0.2730 | 0.0719 | 1.7500e-003 | 0.0737 | | 261.0735 | 261.0735 | 7.8600e-003 | | 261.2701 |
| **Total** | **0.1372** | **0.0916** | **0.8819** | **2.6200e-003** | **0.2711** | **1.9000e-003** | **0.2730** | **0.0719** | **1.7500e-003** | **0.0737** | | **261.0735** | **261.0735** | **7.8600e-003** | | **261.2701** |

# 4.0 Operational Detail - Mobile

## 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 1.8421 | 7.9820 | 22.0194 | 0.0732 | 6.4877 | 0.0632 | 6.5509 | 1.7340 | 0.0591 | 1.7930 | | 7,434.5694 | 7,434.5694 | 0.4023 | | 7,444.6265 |
| Unmitigated | 1.8421 | 7.9820 | 22.0194 | 0.0732 | 6.4877 | 0.0632 | 6.5509 | 1.7340 | 0.0591 | 1.7930 | | 7,434.5694 | 7,434.5694 | 0.4023 | | 7,444.6265 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Condo/Townhouse High Rise | 1,072.00 | 1,072.00 | 1072.00 | 3,059,605 | 3,059,605 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Other Non-Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Total | 1,072.00 | 1,072.00 | 1,072.00 | 3,059,605 | 3,059,605 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Condo/Townhouse High Rise | 10.80 | 7.30 | 7.50 | 41.50 | 19.00 | 39.50 | 86 | 11 | 3 |
| Other Asphalt Surfaces | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Other Non-Asphalt Surfaces | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Parking Lot | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Condo/Townhouse High Rise | 0.593936 | 0.041843 | 0.182569 | 0.108325 | 0.016436 | 0.005513 | 0.015940 | 0.023523 | 0.001912 | 0.001972 | 0.006090 | 0.000748 | 0.001193 |
| Other Asphalt Surfaces | 0.593936 | 0.041843 | 0.182569 | 0.108325 | 0.016436 | 0.005513 | 0.015940 | 0.023523 | 0.001912 | 0.001972 | 0.006090 | 0.000748 | 0.001193 |
| Other Non-Asphalt Surfaces | 0.593936 | 0.041843 | 0.182569 | 0.108325 | 0.016436 | 0.005513 | 0.015940 | 0.023523 | 0.001912 | 0.001972 | 0.006090 | 0.000748 | 0.001193 |
| Parking Lot | 0.593936 | 0.041843 | 0.182569 | 0.108325 | 0.016436 | 0.005513 | 0.015940 | 0.023523 | 0.001912 | 0.001972 | 0.006090 | 0.000748 | 0.001193 |

# 5.0 Energy Detail

Historical Energy Use: N

## 5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0310 | 0.2645 | 0.1125 | 1.6900e-003 | | 0.0214 | 0.0214 | | 0.0214 | 0.0214 | | 337.6156 | 337.6156 | 6.4700e-003 | 6.1900e-003 | 339.6219 |
| NaturalGas Unmitigated | 0.0310 | 0.2645 | 0.1125 | 1.6900e-003 | | 0.0214 | 0.0214 | | 0.0214 | 0.0214 | | 337.6156 | 337.6156 | 6.4700e-003 | 6.1900e-003 | 339.6219 |

## 5.2 Energy by Land Use - NaturalGas

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Other 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 |
| 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 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **0.0310** | **0.2645** | **0.1125** | **1.6900e-003** | | **0.0214** | **0.0214** | | **0.0214** | **0.0214** | | **337.6156** | **337.6156** | **6.4700e-003** | **6.1900e-003** | **339.6219** |

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Other 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 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **0.0310** | **0.2645** | **0.1125** | **1.6900e-003** | | **0.0214** | **0.0214** | | **0.0214** | **0.0214** | | **337.6156** | **337.6156** | **6.4700e-003** | **6.1900e-003** | **339.6219** |

# 6.0 Area Detail

## 6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 5.9741 | 1.4211 | 12.2207 | 8.8300e-003 | | 0.1683 | 0.1683 | | 0.1683 | 0.1683 | 0.0000 | 1,663.2139 | 1,663.2139 | 0.0519 | 0.0301 | 1,673.4825 |
| Unmitigated | 5.9741 | 1.4211 | 12.2207 | 8.8300e-003 | | 0.1683 | 0.1683 | | 0.1683 | 0.1683 | 0.0000 | 1,663.2139 | 1,663.2139 | 0.0519 | 0.0301 | 1,673.4825 |

## 6.2 Area by SubCategory

**Unmitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.4282 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 5.0407 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.1505 | 1.2864 | 0.5474 | 8.2100e-003 | | 0.1040 | 0.1040 | | 0.1040 | 0.1040 | 0.0000 | 1,642.2353 | 1,642.2353 | 0.0315 | 0.0301 | 1,651.9943 |
| Landscaping | 0.3547 | 0.1347 | 11.6733 | 6.2000e-004 | | 0.0643 | 0.0643 | | 0.0643 | 0.0643 | | 20.9786 | 20.9786 | 0.0204 | | 21.4882 |
| **Total** | **5.9741** | **1.4211** | **12.2207** | **8.8300e-003** | | **0.1683** | **0.1683** | | **0.1683** | **0.1683** | **0.0000** | **1,663.2139** | **1,663.2139** | **0.0519** | **0.0301** | **1,673.4825** |

## Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.4282 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 5.0407 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.1505 | 1.2864 | 0.5474 | 8.2100e-003 | | 0.1040 | 0.1040 | | 0.1040 | 0.1040 | 0.0000 | 1,642.2353 | 1,642.2353 | 0.0315 | 0.0301 | 1,651.9943 |
| Landscaping | 0.3547 | 0.1347 | 11.6733 | 6.2000e-004 | | 0.0643 | 0.0643 | | 0.0643 | 0.0643 | | 20.9786 | 20.9786 | 0.0204 | | 21.4882 |
| **Total** | **5.9741** | **1.4211** | **12.2207** | **8.8300e-003** | | **0.1683** | **0.1683** | | **0.1683** | **0.1683** | **0.0000** | **1,663.2139** | **1,663.2139** | **0.0519** | **0.0301** | **1,673.4825** |

# Moss Street

**San Diego County, Annual**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| Other Asphalt Surfaces | 1.30 | Acre | 1.30 | 56,645.00 | 0 |
| Other Non-Asphalt Surfaces | 82.08 | 1000sqft | 1.88 | 82,081.00 | 0 |
| Parking Lot | 66.00 | Space | 0.27 | 11,556.00 | 0 |
| Condo/Townhouse High Rise | 141.00 | Dwelling Unit | 3.45 | 233,061.00 | 403 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.6 | **Precipitation Freq (Days)** | 40 |
| **Climate Zone** | 13 | | | **Operational Year** | 2021 |
| **Utility Company** | San Diego Gas & Electric | | | | |
| **CO2 Intensity (lb/MWhr)** | 456 | **CH4 Intensity (lb/MWhr)** | 0.029 | **N2O Intensity (lb/MWhr)** | 0.006 |

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

Project Characteristics - CO2 intensity adjusted based on SD Gas & Electricy renewable energy portfolio.

Land Use - information from final site plan and RFI response

Construction Phase - applicant stated no site prep phase; demolition, grading and architectural coating are 30 days

Demolition - measured from google earth

Grading - from final site plan

Architectural Coating - 50 g/L Flat Coatings - VOC limit based on SDAPCD Rule 67.0.1

Vehicle Trips - trip rate is adjusted based on TIA report.

Woodstoves - no wood burned.

Area Coating - 50 g/L Flat Coatings - VOC limit based on SDAPCD Rule 67.0.1

Energy Use - .

Construction Off-road Equipment Mitigation - fugitive control measures+ tier IV

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblArchitecturalCoating | EF_Residential_Exterior | 250.00 | 50.00 |
| tblArchitecturalCoating | EF_Residential_Interior | 250.00 | 50.00 |
| tblAreaCoating | Area_EF_Residential_Exterior | 250 | 50 |
| tblAreaCoating | Area_EF_Residential_Interior | 250 | 50 |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 0 | 15 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |

| | | | |
|---|---|---|---|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 6.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| 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 |
| 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 | 20.00 | 30.00 |
| tblConstructionPhase | NumDays | 20.00 | 30.00 |
| tblConstructionPhase | NumDays | 20.00 | 30.00 |
| tblFireplaces | FireplaceWoodMass | 3,078.40 | 0.00 |
| tblFireplaces | NumberWood | 49.35 | 0.00 |
| tblGrading | AcresOfGrading | 15.00 | 10.00 |
| tblGrading | MaterialExported | 0.00 | 15,000.00 |
| tblGrading | MaterialImported | 0.00 | 10,000.00 |
| tblLandUse | LandUseSquareFeet | 56,628.00 | 56,645.00 |
| tblLandUse | LandUseSquareFeet | 82,080.00 | 82,081.00 |

| | | | |
|---|---|---|---|
| tblLandUse | LandUseSquareFeet | 26,400.00 | 11,556.00 |
| tblLandUse | LandUseSquareFeet | 141,000.00 | 233,061.00 |
| tblLandUse | LotAcreage | 0.59 | 0.27 |
| tblLandUse | LotAcreage | 2.20 | 3.45 |
| tblProjectCharacteristics | CO2IntensityFactor | 720.49 | 456 |
| tblVehicleTrips | HO_TTP | 39.60 | 39.50 |
| tblVehicleTrips | HS_TTP | 18.80 | 19.00 |
| tblVehicleTrips | HW_TTP | 41.60 | 41.50 |
| tblVehicleTrips | ST_TR | 4.31 | 7.01 |
| tblVehicleTrips | SU_TR | 3.43 | 7.01 |
| tblVehicleTrips | WD_TR | 4.18 | 7.01 |
| tblWoodstoves | NumberCatalytic | 7.05 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 7.05 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 3,019.20 | 0.00 |

## 2.0 Emissions Summary

## 2.1 Overall Construction

### Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2019 | 0.1509 | 1.8302 | 1.0143 | 3.0600e-003 | 0.1715 | 0.0678 | 0.2393 | 0.0682 | 0.0631 | 0.1313 | 0.0000 | 287.2084 | 287.2084 | 0.0483 | 0.0000 | 288.4163 |
| 2020 | 1.0954 | 2.6235 | 2.4725 | 5.5000e-003 | 0.1664 | 0.1258 | 0.2923 | 0.0448 | 0.1183 | 0.1631 | 0.0000 | 492.1440 | 492.1440 | 0.0761 | 0.0000 | 494.0470 |
| **Maximum** | **1.0954** | **2.6235** | **2.4725** | **5.5000e-003** | **0.1715** | **0.1258** | **0.2923** | **0.0682** | **0.1183** | **0.1631** | **0.0000** | **492.1440** | **492.1440** | **0.0761** | **0.0000** | **494.0470** |

### Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2019 | 0.0445 | 0.6675 | 1.0585 | 3.0600e-003 | 0.1066 | 4.7200e-003 | 0.1113 | 0.0387 | 4.6100e-003 | 0.0433 | 0.0000 | 287.2082 | 287.2082 | 0.0483 | 0.0000 | 288.4161 |
| 2020 | 0.8996 | 0.7512 | 2.5610 | 5.5000e-003 | 0.1664 | 7.8300e-003 | 0.1743 | 0.0448 | 7.6600e-003 | 0.0525 | 0.0000 | 492.1437 | 492.1437 | 0.0761 | 0.0000 | 494.0467 |
| **Maximum** | **0.8996** | **0.7512** | **2.5610** | **5.5000e-003** | **0.1664** | **7.8300e-003** | **0.1743** | **0.0448** | **7.6600e-003** | **0.0525** | **0.0000** | **492.1437** | **492.1437** | **0.0761** | **0.0000** | **494.0467** |

| | **ROG** | **NOx** | **CO** | **SO2** | **Fugitive PM10** | **Exhaust PM10** | **PM10 Total** | **Fugitive PM2.5** | **Exhaust PM2.5** | **PM2.5 Total** | **Bio- CO2** | **NBio-CO2** | **Total CO2** | **CH4** | **N20** | **CO2e** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **24.26** | **68.15** | **-3.81** | **0.00** | **19.22** | **93.52** | **46.29** | **26.11** | **93.24** | **67.47** | **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** | **9-1-2019** | **11-30-2019** | 1.6445 | 0.6106 |
| **2** | **12-1-2019** | **2-29-2020** | 0.9113 | 0.2785 |
| **3** | **3-1-2020** | **5-31-2020** | 0.8879 | 0.2721 |
| **4** | **6-1-2020** | **8-31-2020** | 0.8865 | 0.2706 |
| **5** | **9-1-2020** | **9-30-2020** | 0.2891 | 0.0882 |
| | | **Highest** | 1.6445 | 0.6106 |

## 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 | 1.0362 | 0.0649 | 1.0730 | 3.9000e-004 | | 0.0101 | 0.0101 | | 0.0101 | 0.0101 | 0.0000 | 62.7951 | 62.7951 | 2.8400e-003 | 1.1200e-003 | 63.1997 |
| Energy | 5.6500e-003 | 0.0483 | 0.0205 | 3.1000e-004 | | 3.9000e-003 | 3.9000e-003 | | 3.9000e-003 | 3.9000e-003 | 0.0000 | 181.1059 | 181.1059 | 9.0300e-003 | 2.6700e-003 | 182.1281 |
| Mobile | 0.3017 | 1.3433 | 3.6559 | 0.0124 | 1.0632 | 0.0105 | 1.0737 | 0.2847 | 9.8600e-003 | 0.2946 | 0.0000 | 1,142.3227 | 1,142.3227 | 0.0606 | 0.0000 | 1,143.8382 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 13.1660 | 0.0000 | 13.1660 | 0.7781 | 0.0000 | 32.6182 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 2.9145 | 38.0510 | 40.9655 | 0.3018 | 7.5700e-003 | 50.7653 |
| **Total** | **1.3435** | **1.4564** | **4.7495** | **0.0131** | **1.0632** | **0.0245** | **1.0876** | **0.2847** | **0.0238** | **0.3085** | **16.0805** | **1,424.2746** | **1,440.3551** | **1.1524** | **0.0114** | **1,472.5494** |

## 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 | 1.0362 | 0.0649 | 1.0730 | 3.9000e-004 | | 0.0101 | 0.0101 | | 0.0101 | 0.0101 | 0.0000 | 62.7951 | 62.7951 | 2.8400e-003 | 1.1200e-003 | 63.1997 |
| Energy | 5.6500e-003 | 0.0483 | 0.0205 | 3.1000e-004 | | 3.9000e-003 | 3.9000e-003 | | 3.9000e-003 | 3.9000e-003 | 0.0000 | 181.1059 | 181.1059 | 9.0300e-003 | 2.6700e-003 | 182.1281 |
| Mobile | 0.3017 | 1.3433 | 3.6559 | 0.0124 | 1.0632 | 0.0105 | 1.0737 | 0.2847 | 9.8600e-003 | 0.2946 | 0.0000 | 1,142.3227 | 1,142.3227 | 0.0606 | 0.0000 | 1,143.8382 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 13.1660 | 0.0000 | 13.1660 | 0.7781 | 0.0000 | 32.6182 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 2.9145 | 38.0510 | 40.9655 | 0.3018 | 7.5700e-003 | 50.7653 |
| **Total** | **1.3435** | **1.4564** | **4.7495** | **0.0131** | **1.0632** | **0.0245** | **1.0876** | **0.2847** | **0.0238** | **0.3085** | **16.0805** | **1,424.2746** | **1,440.3551** | **1.1524** | **0.0114** | **1,472.5494** |

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

## 3.0 Construction Detail

**Construction Phase**

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|---|---|---|---|---|---|---|---|
| 1 | Demolition | Demolition | 9/1/2019 | 10/11/2019 | 5 | 30 | |
| 2 | Grading | Grading | 10/12/2019 | 11/22/2019 | 5 | 30 | |
| 3 | Building Construction | Building Construction | 11/23/2019 | 10/9/2020 | 5 | 230 | |
| 4 | Paving | Paving | 10/10/2020 | 11/6/2020 | 5 | 20 | |
| 5 | Architectural Coating | Architectural Coating | 11/7/2020 | 12/18/2020 | 5 | 30 | |

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

**Acres of Grading (Grading Phase): 10**

**Acres of Paving: 3.45**

**Residential Indoor: 471,949; Residential Outdoor: 157,316; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 9,017 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 3 | 8.00 | 158 | 0.38 |
| Demolition | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Grading | Excavators | 1 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

## Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---|---|---|---|---|---|---|---|---|---|---|
| Demolition | 6 | 15.00 | 0.00 | 189.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 6 | 15.00 | 0.00 | 3,125.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 165.00 | 40.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 33.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

## 3.2 Demolition - 2019

**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 | | | | | 0.0207 | 0.0000 | 0.0207 | 3.1400e-003 | 0.0000 | 3.1400e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0527 | 0.5367 | 0.3309 | 5.8000e-004 | | 0.0269 | 0.0269 | | 0.0250 | 0.0250 | 0.0000 | 51.9395 | 51.9395 | 0.0145 | 0.0000 | 52.3007 |
| **Total** | **0.0527** | **0.5367** | **0.3309** | **5.8000e-004** | **0.0207** | **0.0269** | **0.0476** | **3.1400e-003** | **0.0250** | **0.0282** | **0.0000** | **51.9395** | **51.9395** | **0.0145** | **0.0000** | **52.3007** |

## 3.2 Demolition - 2019

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 8.3000e-004 | 0.0290 | 6.3200e-003 | 7.0000e-005 | 1.6200e-003 | 1.1000e-004 | 1.7300e-003 | 4.4000e-004 | 1.0000e-004 | 5.5000e-004 | 0.0000 | 7.3672 | 7.3672 | 6.7000e-004 | 0.0000 | 7.3838 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 8.9000e-004 | 6.8000e-004 | 6.5800e-003 | 2.0000e-005 | 1.8000e-003 | 1.0000e-005 | 1.8200e-003 | 4.8000e-004 | 1.0000e-005 | 4.9000e-004 | 0.0000 | 1.6841 | 1.6841 | 5.0000e-005 | 0.0000 | 1.6855 |
| **Total** | **1.7200e-003** | **0.0296** | **0.0129** | **9.0000e-005** | **3.4200e-003** | **1.2000e-004** | **3.5500e-003** | **9.2000e-004** | **1.1000e-004** | **1.0400e-003** | **0.0000** | **9.0513** | **9.0513** | **7.2000e-004** | **0.0000** | **9.0693** |

### 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 | | | | | 9.3200e-003 | 0.0000 | 9.3200e-003 | 1.4100e-003 | 0.0000 | 1.4100e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 6.9300e-003 | 0.0301 | 0.3492 | 5.8000e-004 | | 9.2000e-004 | 9.2000e-004 | | 9.2000e-004 | 9.2000e-004 | 0.0000 | 51.9394 | 51.9394 | 0.0145 | 0.0000 | 52.3007 |
| **Total** | **6.9300e-003** | **0.0301** | **0.3492** | **5.8000e-004** | **9.3200e-003** | **9.2000e-004** | **0.0102** | **1.4100e-003** | **9.2000e-004** | **2.3300e-003** | **0.0000** | **51.9394** | **51.9394** | **0.0145** | **0.0000** | **52.3007** |

## 3.2 Demolition - 2019

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 8.3000e-004 | 0.0290 | 6.3200e-003 | 7.0000e-005 | 1.6200e-003 | 1.1000e-004 | 1.7300e-003 | 4.4000e-004 | 1.0000e-004 | 5.5000e-004 | 0.0000 | 7.3672 | 7.3672 | 6.7000e-004 | 0.0000 | 7.3838 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 8.9000e-004 | 6.8000e-004 | 6.5800e-003 | 2.0000e-005 | 1.8000e-003 | 1.0000e-005 | 1.8200e-003 | 4.8000e-004 | 1.0000e-005 | 4.9000e-004 | 0.0000 | 1.6841 | 1.6841 | 5.0000e-005 | 0.0000 | 1.6855 |
| **Total** | **1.7200e-003** | **0.0296** | **0.0129** | **9.0000e-005** | **3.4200e-003** | **1.2000e-004** | **3.5500e-003** | **9.2000e-004** | **1.1000e-004** | **1.0400e-003** | **0.0000** | **9.0513** | **9.0513** | **7.2000e-004** | **0.0000** | **9.0693** |

## 3.3 Grading - 2019

**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 | | | | | 0.0974 | 0.0000 | 0.0974 | 0.0505 | 0.0000 | 0.0505 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0387 | 0.4252 | 0.2444 | 4.4000e-004 | | 0.0210 | 0.0210 | | 0.0193 | 0.0193 | 0.0000 | 39.9634 | 39.9634 | 0.0126 | 0.0000 | 40.2795 |
| **Total** | **0.0387** | **0.4252** | **0.2444** | **4.4000e-004** | **0.0974** | **0.0210** | **0.1184** | **0.0505** | **0.0193** | **0.0698** | **0.0000** | **39.9634** | **39.9634** | **0.0126** | **0.0000** | **40.2795** |

## 3.3 Grading - 2019

### 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 | 0.0137 | 0.4788 | 0.1045 | 1.2300e-003 | 0.0267 | 1.7900e-003 | 0.0285 | 7.3400e-003 | 1.7100e-003 | 9.0500e-003 | 0.0000 | 121.8117 | 121.8117 | 0.0110 | 0.0000 | 122.0874 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 8.9000e-004 | 6.8000e-004 | 6.5800e-003 | 2.0000e-005 | 1.8000e-003 | 1.0000e-005 | 1.8200e-003 | 4.8000e-004 | 1.0000e-005 | 4.9000e-004 | 0.0000 | 1.6841 | 1.6841 | 5.0000e-005 | 0.0000 | 1.6855 |
| **Total** | **0.0146** | **0.4795** | **0.1110** | **1.2500e-003** | **0.0285** | **1.8000e-003** | **0.0304** | **7.8200e-003** | **1.7200e-003** | **9.5400e-003** | **0.0000** | **123.4958** | **123.4958** | **0.0111** | **0.0000** | **123.7728** |

### 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 | | | | | 0.0438 | 0.0000 | 0.0438 | 0.0227 | 0.0000 | 0.0227 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 5.4500e-003 | 0.0236 | 0.2663 | 4.4000e-004 | | 7.3000e-004 | 7.3000e-004 | | 7.3000e-004 | 7.3000e-004 | 0.0000 | 39.9634 | 39.9634 | 0.0126 | 0.0000 | 40.2795 |
| **Total** | **5.4500e-003** | **0.0236** | **0.2663** | **4.4000e-004** | **0.0438** | **7.3000e-004** | **0.0446** | **0.0227** | **7.3000e-004** | **0.0235** | **0.0000** | **39.9634** | **39.9634** | **0.0126** | **0.0000** | **40.2795** |

## 3.3 Grading - 2019

**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 | 0.0137 | 0.4788 | 0.1045 | 1.2300e-003 | 0.0267 | 1.7900e-003 | 0.0285 | 7.3400e-003 | 1.7100e-003 | 9.0500e-003 | 0.0000 | 121.8117 | 121.8117 | 0.0110 | 0.0000 | 122.0874 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 8.9000e-004 | 6.8000e-004 | 6.5800e-003 | 2.0000e-005 | 1.8000e-003 | 1.0000e-005 | 1.8200e-003 | 4.8000e-004 | 1.0000e-005 | 4.9000e-004 | 0.0000 | 1.6841 | 1.6841 | 5.0000e-005 | 0.0000 | 1.6855 |
| **Total** | **0.0146** | **0.4795** | **0.1110** | **1.2500e-003** | **0.0285** | **1.8000e-003** | **0.0304** | **7.8200e-003** | **1.7200e-003** | **9.5400e-003** | **0.0000** | **123.4958** | **123.4958** | **0.0111** | **0.0000** | **123.7728** |

## 3.4 Building Construction - 2019

**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 | 0.0319 | 0.2846 | 0.2317 | 3.6000e-004 | | 0.0174 | 0.0174 | | 0.0164 | 0.0164 | 0.0000 | 31.7391 | 31.7391 | 7.7300e-003 | 0.0000 | 31.9324 |
| **Total** | **0.0319** | **0.2846** | **0.2317** | **3.6000e-004** | | **0.0174** | **0.0174** | | **0.0164** | **0.0164** | **0.0000** | **31.7391** | **31.7391** | **7.7300e-003** | **0.0000** | **31.9324** |

## 3.4 Building Construction - 2019

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 2.5300e-003 | 0.0678 | 0.0182 | 1.5000e-004 | 3.5800e-003 | 4.7000e-004 | 4.0500e-003 | 1.0300e-003 | 4.5000e-004 | 1.4800e-003 | 0.0000 | 14.3466 | 14.3466 | 1.1500e-003 | 0.0000 | 14.3754 |
| Worker | 8.7800e-003 | 6.7400e-003 | 0.0652 | 1.8000e-004 | 0.0179 | 1.3000e-004 | 0.0180 | 4.7500e-003 | 1.2000e-004 | 4.8700e-003 | 0.0000 | 16.6728 | 16.6728 | 5.4000e-004 | 0.0000 | 16.6862 |
| **Total** | **0.0113** | **0.0745** | **0.0834** | **3.3000e-004** | **0.0214** | **6.0000e-004** | **0.0220** | **5.7800e-003** | **5.7000e-004** | **6.3500e-003** | **0.0000** | **31.0194** | **31.0194** | **1.6900e-003** | **0.0000** | **31.0616** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 4.4300e-003 | 0.0302 | 0.2357 | 3.6000e-004 | | 5.5000e-004 | 5.5000e-004 | | 5.5000e-004 | 5.5000e-004 | 0.0000 | 31.7390 | 31.7390 | 7.7300e-003 | 0.0000 | 31.9323 |
| **Total** | **4.4300e-003** | **0.0302** | **0.2357** | **3.6000e-004** | | **5.5000e-004** | **5.5000e-004** | | **5.5000e-004** | **5.5000e-004** | **0.0000** | **31.7390** | **31.7390** | **7.7300e-003** | **0.0000** | **31.9323** |

## 3.4 Building Construction - 2019

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 2.5300e-003 | 0.0678 | 0.0182 | 1.5000e-004 | 3.5800e-003 | 4.7000e-004 | 4.0500e-003 | 1.0300e-003 | 4.5000e-004 | 1.4800e-003 | 0.0000 | 14.3466 | 14.3466 | 1.1500e-003 | 0.0000 | 14.3754 |
| Worker | 8.7800e-003 | 6.7400e-003 | 0.0652 | 1.8000e-004 | 0.0179 | 1.3000e-004 | 0.0180 | 4.7500e-003 | 1.2000e-004 | 4.8700e-003 | 0.0000 | 16.6728 | 16.6728 | 5.4000e-004 | 0.0000 | 16.6862 |
| **Total** | **0.0113** | **0.0745** | **0.0834** | **3.3000e-004** | **0.0214** | **6.0000e-004** | **0.0220** | **5.7800e-003** | **5.7000e-004** | **6.3500e-003** | **0.0000** | **31.0194** | **31.0194** | **1.6900e-003** | **0.0000** | **31.0616** |

## 3.4 Building Construction - 2020

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.2152 | 1.9474 | 1.7101 | 2.7300e-003 | | 0.1134 | 0.1134 | | 0.1066 | 0.1066 | 0.0000 | 235.0841 | 235.0841 | 0.0574 | 0.0000 | 236.5179 |
| **Total** | **0.2152** | **1.9474** | **1.7101** | **2.7300e-003** | | **0.1134** | **0.1134** | | **0.1066** | **0.1066** | **0.0000** | **235.0841** | **235.0841** | **0.0574** | **0.0000** | **236.5179** |

## 3.4 Building Construction - 2020

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0155 | 0.4628 | 0.1230 | 1.1000e-003 | 0.0270 | 2.2600e-003 | 0.0292 | 7.7800e-003 | 2.1600e-003 | 9.9400e-003 | 0.0000 | 107.1277 | 107.1277 | 8.2100e-003 | 0.0000 | 107.3330 |
| Worker | 0.0617 | 0.0457 | 0.4482 | 1.3400e-003 | 0.1343 | 9.7000e-004 | 0.1353 | 0.0357 | 8.9000e-004 | 0.0366 | 0.0000 | 121.3985 | 121.3985 | 3.6400e-003 | 0.0000 | 121.4896 |
| **Total** | **0.0772** | **0.5085** | **0.5711** | **2.4400e-003** | **0.1613** | **3.2300e-003** | **0.1645** | **0.0435** | **3.0500e-003** | **0.0465** | **0.0000** | **228.5263** | **228.5263** | **0.0119** | **0.0000** | **228.8227** |

### 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 | 0.0333 | 0.2268 | 1.7722 | 2.7300e-003 | | 4.1400e-003 | 4.1400e-003 | | 4.1400e-003 | 4.1400e-003 | 0.0000 | 235.0839 | 235.0839 | 0.0574 | 0.0000 | 236.5177 |
| **Total** | **0.0333** | **0.2268** | **1.7722** | **2.7300e-003** | | **4.1400e-003** | **4.1400e-003** | | **4.1400e-003** | **4.1400e-003** | **0.0000** | **235.0839** | **235.0839** | **0.0574** | **0.0000** | **236.5177** |

## 3.4 Building Construction - 2020

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0155 | 0.4628 | 0.1230 | 1.1000e-003 | 0.0270 | 2.2600e-003 | 0.0292 | 7.7800e-003 | 2.1600e-003 | 9.9400e-003 | 0.0000 | 107.1277 | 107.1277 | 8.2100e-003 | 0.0000 | 107.3330 |
| Worker | 0.0617 | 0.0457 | 0.4482 | 1.3400e-003 | 0.1343 | 9.7000e-004 | 0.1353 | 0.0357 | 8.9000e-004 | 0.0366 | 0.0000 | 121.3985 | 121.3985 | 3.6400e-003 | 0.0000 | 121.4896 |
| **Total** | **0.0772** | **0.5085** | **0.5711** | **2.4400e-003** | **0.1613** | **3.2300e-003** | **0.1645** | **0.0435** | **3.0500e-003** | **0.0465** | **0.0000** | **228.5263** | **228.5263** | **0.0119** | **0.0000** | **228.8227** |

## 3.5 Paving - 2020

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0136 | 0.1407 | 0.1465 | 2.3000e-004 | | 7.5300e-003 | 7.5300e-003 | | 6.9300e-003 | 6.9300e-003 | 0.0000 | 20.0282 | 20.0282 | 6.4800e-003 | 0.0000 | 20.1902 |
| Paving | 2.0600e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **0.0156** | **0.1407** | **0.1465** | **2.3000e-004** | | **7.5300e-003** | **7.5300e-003** | | **6.9300e-003** | **6.9300e-003** | **0.0000** | **20.0282** | **20.0282** | **6.4800e-003** | **0.0000** | **20.1902** |

## 3.5 Paving - 2020

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 5.5000e-004 | 4.1000e-004 | 4.0100e-003 | 1.0000e-005 | 1.2000e-003 | 1.0000e-005 | 1.2100e-003 | 3.2000e-004 | 1.0000e-005 | 3.3000e-004 | 0.0000 | 1.0873 | 1.0873 | 3.0000e-005 | 0.0000 | 1.0881 |
| **Total** | **5.5000e-004** | **4.1000e-004** | **4.0100e-003** | **1.0000e-005** | **1.2000e-003** | **1.0000e-005** | **1.2100e-003** | **3.2000e-004** | **1.0000e-005** | **3.3000e-004** | **0.0000** | **1.0873** | **1.0873** | **3.0000e-005** | **0.0000** | **1.0881** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 2.8000e-003 | 0.0122 | 0.1730 | 2.3000e-004 | | 3.7000e-004 | 3.7000e-004 | | 3.7000e-004 | 3.7000e-004 | 0.0000 | 20.0282 | 20.0282 | 6.4800e-003 | 0.0000 | 20.1901 |
| Paving | 2.0600e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **4.8600e-003** | **0.0122** | **0.1730** | **2.3000e-004** | | **3.7000e-004** | **3.7000e-004** | | **3.7000e-004** | **3.7000e-004** | **0.0000** | **20.0282** | **20.0282** | **6.4800e-003** | **0.0000** | **20.1901** |

## 3.5 Paving - 2020

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 5.5000e-004 | 4.1000e-004 | 4.0100e-003 | 1.0000e-005 | 1.2000e-003 | 1.0000e-005 | 1.2100e-003 | 3.2000e-004 | 1.0000e-005 | 3.3000e-004 | 0.0000 | 1.0873 | 1.0873 | 3.0000e-005 | 0.0000 | 1.0881 |
| **Total** | **5.5000e-004** | **4.1000e-004** | **4.0100e-003** | **1.0000e-005** | **1.2000e-003** | **1.0000e-005** | **1.2100e-003** | **3.2000e-004** | **1.0000e-005** | **3.3000e-004** | **0.0000** | **1.0873** | **1.0873** | **3.0000e-005** | **0.0000** | **1.0881** |

## 3.6 Architectural Coating - 2020

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.7814 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 3.6300e-003 | 0.0253 | 0.0275 | 4.0000e-005 | | 1.6600e-003 | 1.6600e-003 | | 1.6600e-003 | 1.6600e-003 | 0.0000 | 3.8299 | 3.8299 | 3.0000e-004 | 0.0000 | 3.8373 |
| **Total** | **0.7850** | **0.0253** | **0.0275** | **4.0000e-005** | | **1.6600e-003** | **1.6600e-003** | | **1.6600e-003** | **1.6600e-003** | **0.0000** | **3.8299** | **3.8299** | **3.0000e-004** | **0.0000** | **3.8373** |

## 3.6 Architectural Coating - 2020

**Unmitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.8200e-003 | 1.3500e-003 | 0.0133 | 4.0000e-005 | 3.9700e-003 | 3.0000e-005 | 4.0000e-003 | 1.0500e-003 | 3.0000e-005 | 1.0800e-003 | 0.0000 | 3.5881 | 3.5881 | 1.1000e-004 | 0.0000 | 3.5908 |
| **Total** | **1.8200e-003** | **1.3500e-003** | **0.0133** | **4.0000e-005** | **3.9700e-003** | **3.0000e-005** | **4.0000e-003** | **1.0500e-003** | **3.0000e-005** | **1.0800e-003** | **0.0000** | **3.5881** | **3.5881** | **1.1000e-004** | **0.0000** | **3.5908** |

**Mitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.7814 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 4.5000e-004 | 1.9300e-003 | 0.0275 | 4.0000e-005 | | 6.0000e-005 | 6.0000e-005 | | 6.0000e-005 | 6.0000e-005 | 0.0000 | 3.8299 | 3.8299 | 3.0000e-004 | 0.0000 | 3.8373 |
| **Total** | **0.7819** | **1.9300e-003** | **0.0275** | **4.0000e-005** | | **6.0000e-005** | **6.0000e-005** | | **6.0000e-005** | **6.0000e-005** | **0.0000** | **3.8299** | **3.8299** | **3.0000e-004** | **0.0000** | **3.8373** |

## 3.6 Architectural Coating - 2020

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.8200e-003 | 1.3500e-003 | 0.0133 | 4.0000e-005 | 3.9700e-003 | 3.0000e-005 | 4.0000e-003 | 1.0500e-003 | 3.0000e-005 | 1.0800e-003 | 0.0000 | 3.5881 | 3.5881 | 1.1000e-004 | 0.0000 | 3.5908 |
| **Total** | **1.8200e-003** | **1.3500e-003** | **0.0133** | **4.0000e-005** | **3.9700e-003** | **3.0000e-005** | **4.0000e-003** | **1.0500e-003** | **3.0000e-005** | **1.0800e-003** | **0.0000** | **3.5881** | **3.5881** | **1.1000e-004** | **0.0000** | **3.5908** |

# 4.0 Operational Detail - Mobile

## 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.3017 | 1.3433 | 3.6559 | 0.0124 | 1.0632 | 0.0105 | 1.0737 | 0.2847 | 9.8600e-003 | 0.2946 | 0.0000 | 1,142.3227 | 1,142.3227 | 0.0606 | 0.0000 | 1,143.8382 |
| Unmitigated | 0.3017 | 1.3433 | 3.6559 | 0.0124 | 1.0632 | 0.0105 | 1.0737 | 0.2847 | 9.8600e-003 | 0.2946 | 0.0000 | 1,142.3227 | 1,142.3227 | 0.0606 | 0.0000 | 1,143.8382 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Condo/Townhouse High Rise | 988.41 | 988.41 | 988.41 | 2,821,029 | 2,821,029 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Other Non-Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Total | 988.41 | 988.41 | 988.41 | 2,821,029 | 2,821,029 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Condo/Townhouse High Rise | 10.80 | 7.30 | 7.50 | 41.50 | 19.00 | 39.50 | 86 | 11 | 3 |
| Other Asphalt Surfaces | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Other Non-Asphalt Surfaces | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Parking Lot | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Condo/Townhouse High Rise | 0.593936 | 0.041843 | 0.182569 | 0.108325 | 0.016436 | 0.005513 | 0.015940 | 0.023523 | 0.001912 | 0.001972 | 0.006090 | 0.000748 | 0.001193 |
| Other Asphalt Surfaces | 0.593936 | 0.041843 | 0.182569 | 0.108325 | 0.016436 | 0.005513 | 0.015940 | 0.023523 | 0.001912 | 0.001972 | 0.006090 | 0.000748 | 0.001193 |
| Other Non-Asphalt Surfaces | 0.593936 | 0.041843 | 0.182569 | 0.108325 | 0.016436 | 0.005513 | 0.015940 | 0.023523 | 0.001912 | 0.001972 | 0.006090 | 0.000748 | 0.001193 |
| Parking Lot | 0.593936 | 0.041843 | 0.182569 | 0.108325 | 0.016436 | 0.005513 | 0.015940 | 0.023523 | 0.001912 | 0.001972 | 0.006090 | 0.000748 | 0.001193 |

## 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 | 125.2098 | 125.2098 | 7.9600e-003 | 1.6500e-003 | 125.8999 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 125.2098 | 125.2098 | 7.9600e-003 | 1.6500e-003 | 125.8999 |
| NaturalGas Mitigated | 5.6500e-003 | 0.0483 | 0.0205 | 3.1000e-004 | | 3.9000e-003 | 3.9000e-003 | | 3.9000e-003 | 3.9000e-003 | 0.0000 | 55.8961 | 55.8961 | 1.0700e-003 | 1.0200e-003 | 56.2282 |
| NaturalGas Unmitigated | 5.6500e-003 | 0.0483 | 0.0205 | 3.1000e-004 | | 3.9000e-003 | 3.9000e-003 | | 3.9000e-003 | 3.9000e-003 | 0.0000 | 55.8961 | 55.8961 | 1.0700e-003 | 1.0200e-003 | 56.2282 |

## 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 | | | | | |
| Condo/Townhouse High Rise | 1.04745e+006 | 5.6500e-003 | 0.0483 | 0.0205 | 3.1000e-004 | | 3.9000e-003 | 3.9000e-003 | | 3.9000e-003 | 3.9000e-003 | 0.0000 | 55.8961 | 55.8961 | 1.0700e-003 | 1.0200e-003 | 56.2282 |
| Other 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 |
| 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 |
| Parking Lot | 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** | | **5.6500e-003** | **0.0483** | **0.0205** | **3.1000e-004** | | **3.9000e-003** | **3.9000e-003** | | **3.9000e-003** | **3.9000e-003** | **0.0000** | **55.8961** | **55.8961** | **1.0700e-003** | **1.0200e-003** | **56.2282** |

## 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 | | | | | |
| Condo/Townhouse High Rise | 1.04745e+006 | 5.6500e-003 | 0.0483 | 0.0205 | 3.1000e-004 | | 3.9000e-003 | 3.9000e-003 | | 3.9000e-003 | 3.9000e-003 | 0.0000 | 55.8961 | 55.8961 | 1.0700e-003 | 1.0200e-003 | 56.2282 |
| Other 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 |
| 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 |
| Parking Lot | 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** | | **5.6500e-003** | **0.0483** | **0.0205** | **3.1000e-004** | | **3.9000e-003** | **3.9000e-003** | | **3.9000e-003** | **3.9000e-003** | **0.0000** | **55.8961** | **55.8961** | **1.0700e-003** | **1.0200e-003** | **56.2282** |

## 5.3 Energy by Land Use - Electricity

**Unmitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| Condo/Townhouse High Rise | 601307 | 124.3733 | 7.9100e-003 | 1.6400e-003 | 125.0587 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Non-Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 4044.6 | 0.8366 | 5.0000e-005 | 1.0000e-005 | 0.8412 |
| **Total** | | **125.2098** | **7.9600e-003** | **1.6500e-003** | **125.8999** |

## 5.3 Energy by Land Use - Electricity

**Mitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| Condo/Townhouse High Rise | 601307 | 124.3733 | 7.9100e-003 | 1.6400e-003 | 125.0587 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Non-Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 4044.6 | 0.8366 | 5.0000e-005 | 1.0000e-005 | 0.8412 |
| **Total** | | **125.2098** | **7.9600e-003** | **1.6500e-003** | **125.8999** |

# 6.0 Area Detail

## 6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 1.0362 | 0.0649 | 1.0730 | 3.9000e-004 | | 0.0101 | 0.0101 | | 0.0101 | 0.0101 | 0.0000 | 62.7951 | 62.7951 | 2.8400e-003 | 1.1200e-003 | 63.1997 |
| Unmitigated | 1.0362 | 0.0649 | 1.0730 | 3.9000e-004 | | 0.0101 | 0.0101 | | 0.0101 | 0.0101 | 0.0000 | 62.7951 | 62.7951 | 2.8400e-003 | 1.1200e-003 | 63.1997 |

## 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 | 0.0781 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.9199 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 6.1700e-003 | 0.0527 | 0.0224 | 3.4000e-004 | | 4.2600e-003 | 4.2600e-003 | | 4.2600e-003 | 4.2600e-003 | 0.0000 | 61.0822 | 61.0822 | 1.1700e-003 | 1.1200e-003 | 61.4452 |
| Landscaping | 0.0319 | 0.0121 | 1.0506 | 6.0000e-005 | | 5.7900e-003 | 5.7900e-003 | | 5.7900e-003 | 5.7900e-003 | 0.0000 | 1.7128 | 1.7128 | 1.6600e-003 | 0.0000 | 1.7544 |
| **Total** | **1.0362** | **0.0649** | **1.0730** | **4.0000e-004** | | **0.0101** | **0.0101** | | **0.0101** | **0.0101** | **0.0000** | **62.7951** | **62.7951** | **2.8300e-003** | **1.1200e-003** | **63.1997** |

## 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 | 0.0781 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.9199 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 6.1700e-003 | 0.0527 | 0.0224 | 3.4000e-004 | | 4.2600e-003 | 4.2600e-003 | | 4.2600e-003 | 4.2600e-003 | 0.0000 | 61.0822 | 61.0822 | 1.1700e-003 | 1.1200e-003 | 61.4452 |
| Landscaping | 0.0319 | 0.0121 | 1.0506 | 6.0000e-005 | | 5.7900e-003 | 5.7900e-003 | | 5.7900e-003 | 5.7900e-003 | 0.0000 | 1.7128 | 1.7128 | 1.6600e-003 | 0.0000 | 1.7544 |
| **Total** | **1.0362** | **0.0649** | **1.0730** | **4.0000e-004** | | **0.0101** | **0.0101** | | **0.0101** | **0.0101** | **0.0000** | **62.7951** | **62.7951** | **2.8300e-003** | **1.1200e-003** | **63.1997** |

# 7.0 Water Detail

## 7.1 Mitigation Measures Water

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| Category | MT/yr | | | |
| Mitigated | 40.9655 | 0.3018 | 7.5700e-003 | 50.7653 |
| Unmitigated | 40.9655 | 0.3018 | 7.5700e-003 | 50.7653 |

## 7.2 Water by Land Use

**Unmitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| Condo/Townhouse High Rise | 9.18672 / 5.79163 | 40.9655 | 0.3018 | 7.5700e-003 | 50.7653 |
| Other Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Non-Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **40.9655** | **0.3018** | **7.5700e-003** | **50.7653** |

## 7.2 Water by Land Use

**Mitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| Condo/Townhouse High Rise | 9.18672 / 5.79163 | 40.9655 | 0.3018 | 7.5700e-003 | 50.7653 |
| Other Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Non-Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **40.9655** | **0.3018** | **7.5700e-003** | **50.7653** |

# 8.0 Waste Detail

## 8.1 Mitigation Measures Waste

**Category/Year**

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| | MT/yr | | | |
| Mitigated | 13.1660 | 0.7781 | 0.0000 | 32.6182 |
| Unmitigated | 13.1660 | 0.7781 | 0.0000 | 32.6182 |

## 8.2 Waste by Land Use

**Unmitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| Condo/Townhouse High Rise | 64.86 | 13.1660 | 0.7781 | 0.0000 | 32.6182 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Non-Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **13.1660** | **0.7781** | **0.0000** | **32.6182** |

## 8.2 Waste by Land Use

**Mitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| Condo/Townhouse High Rise | 64.86 | 13.1660 | 0.7781 | 0.0000 | 32.6182 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Non-Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **13.1660** | **0.7781** | **0.0000** | **32.6182** |

## 9.0 Operational Offroad

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

## 10.0 Stationary Equipment

**Fire Pumps and Emergency Generators**

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

**Boilers**

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|---|---|---|---|---|---|

**User Defined Equipment**

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

## 11.0 Vegetation

# Moss Street 2030 Operations

**San Diego County, Annual**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| Other Asphalt Surfaces | 1.30 | Acre | 1.30 | 56,645.00 | 0 |
| Other Non-Asphalt Surfaces | 82.08 | 1000sqft | 1.88 | 82,081.00 | 0 |
| Parking Lot | 66.00 | Space | 0.27 | 11,556.00 | 0 |
| Condo/Townhouse High Rise | 141.00 | Dwelling Unit | 3.45 | 233,061.00 | 403 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.6 | **Precipitation Freq (Days)** | 40 |
| **Climate Zone** | 13 | | | **Operational Year** | 2030 |
| **Utility Company** | San Diego Gas & Electric | | | | |
| **CO2 Intensity (lb/MWhr)** | 400 | **CH4 Intensity (lb/MWhr)** | 0.029 | **N2O Intensity (lb/MWhr)** | 0.006 |

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

Project Characteristics - Moss Street 2030 Operations-Operational Run Only
CO2 intensity adjusted based on SD Gas & Electric renewable energy portfolio

Land Use - Information from final site plan and RFI response (Most recent project information as of April 2, 2019)

Construction Phase - Operational only run

Off-road Equipment - Operational only run

Trips and VMT - Operational only run

Demolition - Operational only run

Vehicle Trips - Trip rate adjusted based on TIA report for proposed project
Consistent with the TIA, a transit reduction of 5% was applied

Woodstoves - No woodburning

Area Coating - 50 g/L Flat Coatings - VOC limit based on SDAPCD Rule 67.0.1

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblAreaCoating | Area_EF_Residential_Exterior | 250 | 50 |
| tblAreaCoating | Area_EF_Residential_Interior | 250 | 50 |
| tblConstructionPhase | NumDays | 20.00 | 1.00 |
| tblFireplaces | FireplaceWoodMass | 3,078.40 | 0.00 |
| tblFireplaces | NumberWood | 49.35 | 0.00 |
| tblLandUse | LandUseSquareFeet | 56,628.00 | 56,645.00 |
| tblLandUse | LandUseSquareFeet | 82,080.00 | 82,081.00 |
| tblLandUse | LandUseSquareFeet | 26,400.00 | 11,556.00 |
| tblLandUse | LandUseSquareFeet | 141,000.00 | 233,061.00 |
| tblLandUse | LotAcreage | 0.59 | 0.27 |
| tblLandUse | LotAcreage | 2.20 | 3.45 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 0.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 0.00 |
| tblOffRoadEquipment | UsageHours | 8.00 | 0.00 |
| tblProjectCharacteristics | CO2IntensityFactor | 720.49 | 400 |
| tblVehicleTrips | HO_TTP | 39.60 | 39.50 |
| tblVehicleTrips | HS_TTP | 18.80 | 19.00 |
| tblVehicleTrips | HW_TTP | 41.60 | 41.50 |
| tblVehicleTrips | ST_TR | 4.31 | 7.60 |
| tblVehicleTrips | SU_TR | 3.43 | 7.60 |
| tblVehicleTrips | WD_TR | 4.18 | 7.60 |
| tblWoodstoves | NumberCatalytic | 7.05 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 7.05 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 3,019.20 | 0.00 |

# 2.0 Emissions Summary

## 2.2 Overall Operational

### Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 1.0356 | 0.0648 | 1.0680 | 3.9000e-004 | | 0.0101 | 0.0101 | | 0.0101 | 0.0101 | 0.0000 | 62.7951 | 62.7951 | 2.8100e-003 | 1.1200e-003 | 63.1990 |
| Energy | 5.6500e-003 | 0.0483 | 0.0205 | 3.1000e-004 | | 3.9000e-003 | 3.9000e-003 | | 3.9000e-003 | 3.9000e-003 | 0.0000 | 165.7292 | 165.7292 | 9.0300e-003 | 2.6700e-003 | 166.7514 |
| Mobile | 0.2082 | 0.9047 | 2.5123 | 0.0103 | 1.1524 | 6.7000e-003 | 1.1591 | 0.3085 | 6.2200e-003 | 0.3147 | 0.0000 | 959.4113 | 959.4113 | 0.0463 | 0.0000 | 960.5681 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 13.1660 | 0.0000 | 13.1660 | 0.7781 | 0.0000 | 32.6182 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 2.9145 | 33.3781 | 36.2926 | 0.3018 | 7.5700e-003 | 46.0924 |
| **Total** | **1.2494** | **1.0178** | **3.6008** | **0.0110** | **1.1524** | **0.0207** | **1.1731** | **0.3085** | **0.0202** | **0.3287** | **16.0805** | **1,221.3137** | **1,237.3942** | **1.1380** | **0.0114** | **1,269.2291** |

### 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 | 1.0356 | 0.0648 | 1.0680 | 3.9000e-004 | | 0.0101 | 0.0101 | | 0.0101 | 0.0101 | 0.0000 | 62.7951 | 62.7951 | 2.8100e-003 | 1.1200e-003 | 63.1990 |
| Energy | 5.6500e-003 | 0.0483 | 0.0205 | 3.1000e-004 | | 3.9000e-003 | 3.9000e-003 | | 3.9000e-003 | 3.9000e-003 | 0.0000 | 165.7292 | 165.7292 | 9.0300e-003 | 2.6700e-003 | 166.7514 |
| Mobile | 0.2082 | 0.9047 | 2.5123 | 0.0103 | 1.1524 | 6.7000e-003 | 1.1591 | 0.3085 | 6.2200e-003 | 0.3147 | 0.0000 | 959.4113 | 959.4113 | 0.0463 | 0.0000 | 960.5681 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 13.1660 | 0.0000 | 13.1660 | 0.7781 | 0.0000 | 32.6182 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 2.9145 | 33.3781 | 36.2926 | 0.3018 | 7.5700e-003 | 46.0924 |
| **Total** | **1.2494** | **1.0178** | **3.6008** | **0.0110** | **1.1524** | **0.0207** | **1.1731** | **0.3085** | **0.0202** | **0.3287** | **16.0805** | **1,221.3137** | **1,237.3942** | **1.1380** | **0.0114** | **1,269.2291** |

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

# 4.0 Operational Detail - Mobile

## 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.2082 | 0.9047 | 2.5123 | 0.0103 | 1.1524 | 6.7000e-003 | 1.1591 | 0.3085 | 6.2200e-003 | 0.3147 | 0.0000 | 959.4113 | 959.4113 | 0.0463 | 0.0000 | 960.5681 |
| Unmitigated | 0.2082 | 0.9047 | 2.5123 | 0.0103 | 1.1524 | 6.7000e-003 | 1.1591 | 0.3085 | 6.2200e-003 | 0.3147 | 0.0000 | 959.4113 | 959.4113 | 0.0463 | 0.0000 | 960.5681 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Condo/Townhouse High Rise | 1,072.00 | 1,072.00 | 1072.00 | 3,059,605 | 3,059,605 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Other Non-Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Total | 1,072.00 | 1,072.00 | 1,072.00 | 3,059,605 | 3,059,605 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Condo/Townhouse High Rise | 10.80 | 7.30 | 7.50 | 41.50 | 19.00 | 39.50 | 86 | 11 | 3 |
| Other Asphalt Surfaces | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Other Non-Asphalt Surfaces | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Parking Lot | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Condo/Townhouse High Rise | 0.616428 | 0.037185 | 0.177402 | 0.097684 | 0.012090 | 0.005279 | 0.017663 | 0.025476 | 0.001931 | 0.001677 | 0.005617 | 0.000785 | 0.000782 |
| Other Asphalt Surfaces | 0.616428 | 0.037185 | 0.177402 | 0.097684 | 0.012090 | 0.005279 | 0.017663 | 0.025476 | 0.001931 | 0.001677 | 0.005617 | 0.000785 | 0.000782 |
| Other Non-Asphalt Surfaces | 0.616428 | 0.037185 | 0.177402 | 0.097684 | 0.012090 | 0.005279 | 0.017663 | 0.025476 | 0.001931 | 0.001677 | 0.005617 | 0.000785 | 0.000782 |
| Parking Lot | 0.616428 | 0.037185 | 0.177402 | 0.097684 | 0.012090 | 0.005279 | 0.017663 | 0.025476 | 0.001931 | 0.001677 | 0.005617 | 0.000785 | 0.000782 |

# 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 | 109.8332 | 109.8332 | 7.9600e-003 | 1.6500e-003 | 110.5232 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 109.8332 | 109.8332 | 7.9600e-003 | 1.6500e-003 | 110.5232 |
| NaturalGas Mitigated | 5.6500e-003 | 0.0483 | 0.0205 | 3.1000e-004 | | 3.9000e-003 | 3.9000e-003 | | 3.9000e-003 | 3.9000e-003 | 0.0000 | 55.8961 | 55.8961 | 1.0700e-003 | 1.0200e-003 | 56.2282 |
| NaturalGas Unmitigated | 5.6500e-003 | 0.0483 | 0.0205 | 3.1000e-004 | | 3.9000e-003 | 3.9000e-003 | | 3.9000e-003 | 3.9000e-003 | 0.0000 | 55.8961 | 55.8961 | 1.0700e-003 | 1.0200e-003 | 56.2282 |

## 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 | | | | | |
| Condo/Townhouse High Rise | 1.04745e+006 | 5.6500e-003 | 0.0483 | 0.0205 | 3.1000e-004 | | 3.9000e-003 | 3.9000e-003 | | 3.9000e-003 | 3.9000e-003 | 0.0000 | 55.8961 | 55.8961 | 1.0700e-003 | 1.0200e-003 | 56.2282 |
| Other 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 |
| 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 |
| Parking Lot | 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** | | **5.6500e-003** | **0.0483** | **0.0205** | **3.1000e-004** | | **3.9000e-003** | **3.9000e-003** | | **3.9000e-003** | **3.9000e-003** | **0.0000** | **55.8961** | **55.8961** | **1.0700e-003** | **1.0200e-003** | **56.2282** |

**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 | | | | | |
| Condo/Townhouse High Rise | 1.04745e+006 | 5.6500e-003 | 0.0483 | 0.0205 | 3.1000e-004 | | 3.9000e-003 | 3.9000e-003 | | 3.9000e-003 | 3.9000e-003 | 0.0000 | 55.8961 | 55.8961 | 1.0700e-003 | 1.0200e-003 | 56.2282 |
| Other 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 |
| 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 |
| Parking Lot | 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** | | **5.6500e-003** | **0.0483** | **0.0205** | **3.1000e-004** | | **3.9000e-003** | **3.9000e-003** | | **3.9000e-003** | **3.9000e-003** | **0.0000** | **55.8961** | **55.8961** | **1.0700e-003** | **1.0200e-003** | **56.2282** |

## 5.3 Energy by Land Use - Electricity

**Unmitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| Condo/Townhouse High Rise | 601307 | 109.0993 | 7.9100e-003 | 1.6400e-003 | 109.7848 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Non-Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 4044.6 | 0.7338 | 5.0000e-005 | 1.0000e-005 | 0.7385 |
| **Total** | | **109.8332** | **7.9600e-003** | **1.6500e-003** | **110.5232** |

**Mitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| Condo/Townhouse High Rise | 601307 | 109.0993 | 7.9100e-003 | 1.6400e-003 | 109.7848 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Non-Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 4044.6 | 0.7338 | 5.0000e-005 | 1.0000e-005 | 0.7385 |
| **Total** | | **109.8332** | **7.9600e-003** | **1.6500e-003** | **110.5232** |

# 6.0 Area Detail

## 6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 1.0356 | 0.0648 | 1.0680 | 3.9000e-004 | | 0.0101 | 0.0101 | | 0.0101 | 0.0101 | 0.0000 | 62.7951 | 62.7951 | 2.8100e-003 | 1.1200e-003 | 63.1990 |
| Unmitigated | 1.0356 | 0.0648 | 1.0680 | 3.9000e-004 | | 0.0101 | 0.0101 | | 0.0101 | 0.0101 | 0.0000 | 62.7951 | 62.7951 | 2.8100e-003 | 1.1200e-003 | 63.1990 |

## 6.2 Area by SubCategory

| | ROG | NOx | CO | SO2 | 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 | | | | | |
| Consumer Products | 0.9199 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 6.1700e-003 | 0.0527 | 0.0224 | 3.4000e-004 | | 4.2600e-003 | 4.2600e-003 | | 4.2600e-003 | 4.2600e-003 | 0.0000 | 61.0822 | 61.0822 | 1.1700e-003 | 1.1200e-003 | 61.4452 |
| Landscaping | 0.0314 | 0.0121 | 1.0455 | 6.0000e-005 | | 5.8100e-003 | 5.8100e-003 | | 5.8100e-003 | 5.8100e-003 | 0.0000 | 1.7128 | 1.7128 | 1.6400e-003 | 0.0000 | 1.7537 |
| **Total** | **1.0356** | **0.0648** | **1.0680** | **4.0000e-004** | | **0.0101** | **0.0101** | | **0.0101** | **0.0101** | **0.0000** | **62.7951** | **62.7951** | **2.8100e-003** | **1.1200e-003** | **63.1990** |

**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 | | | | | |
| Consumer Products | 0.9199 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 0.0314 | 0.0121 | 1.0455 | 6.0000e-005 | | 5.8100e-003 | 5.8100e-003 | | 5.8100e-003 | 5.8100e-003 | 0.0000 | 1.7128 | 1.7128 | 1.6400e-003 | 0.0000 | 1.7537 |
| **Total** | **1.0356** | **0.0648** | **1.0680** | **4.0000e-004** | | **0.0101** | **0.0101** | | **0.0101** | **0.0101** | **0.0000** | **62.7951** | **62.7951** | **2.8100e-003** | **1.1200e-003** | **63.1990** |

# 7.0 Water Detail

## 7.1 Mitigation Measures Water

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| Category | MT/yr | | | |
| Mitigated | 36.2926 | 0.3018 | 7.5700e-003 | 46.0924 |
| Unmitigated | 36.2926 | 0.3018 | 7.5700e-003 | 46.0924 |

## 7.2 Water by Land Use

**Unmitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| Condo/Townhouse High Rise | 9.18672 / 5.79163 | 36.2926 | 0.3018 | 7.5700e-003 | 46.0924 |
| Other Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Non-Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **36.2926** | **0.3018** | **7.5700e-003** | **46.0924** |

**Mitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| Condo/Townhouse High Rise | 9.18672 / 5.79163 | 36.2926 | 0.3018 | 7.5700e-003 | 46.0924 |
| Other Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Non-Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **36.2926** | **0.3018** | **7.5700e-003** | **46.0924** |

# 8.0 Waste Detail

## 8.1 Mitigation Measures Waste

**Category/Year**

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| | MT/yr | | | |
| Mitigated | 13.1660 | 0.7781 | 0.0000 | 32.6182 |
| Unmitigated | 13.1660 | 0.7781 | 0.0000 | 32.6182 |

## 8.2 Waste by Land Use

**Unmitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| Condo/Townhouse High Rise | 64.86 | 13.1660 | 0.7781 | 0.0000 | 32.6182 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Non-Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **13.1660** | **0.7781** | **0.0000** | **32.6182** |

## Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| Condo/Townhouse High Rise | 64.86 | 13.1660 | 0.7781 | 0.0000 | 32.6182 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Non-Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **13.1660** | **0.7781** | **0.0000** | **32.6182** |

# Moss Street Existing Emissions (2021)

**San Diego County, Annual**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| General Light Industry | 41.56 | 1000sqft | 6.90 | 41,560.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.6 | **Precipitation Freq (Days)** | 40 |
| **Climate Zone** | 13 | | | **Operational Year** | 2021 |
| **Utility Company** | San Diego Gas & Electric | | | | |
| **CO2 Intensity (lb/MWhr)** | 456 | **CH4 Intensity (lb/MWhr)** | 0.029 | **N2O Intensity (lb/MWhr)** | 0.006 |

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

Project Characteristics - Existing emissions modeled using the 2021 operational year to net from 2021 proposed project emissions
CO2 intensity adjusted based on SD Gas and Electric Renewable Energy Portfolio

Land Use - 3 existing general light industrial buildings (15,046 square feet, 20,430 square feet and 6,085 square feet) totaling to 41, 560 square feet as measured by using Google Earth.
Lot Acreage as provided in the Project Description.

Construction Phase - Existing operations run only

Off-road Equipment - Existing operations run only

Off-road Equipment - Operation Only.

Trips and VMT - Existing operations run only

Architectural Coating - Existing operations run only

Vehicle Trips - Adjusted trip generation rates to match existing trips presented in the project-specific Transportation Impact Analysis.
Linscott Law & Greenspan engineers. 2018. Draft Transportation Impact Analysis, 676 Moss Street Chula Vista, California. December 20.

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 20,780.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 62,340.00 | 0.00 |
| tblConstructionPhase | NumDays | 20.00 | 0.00 |
| tblLandUse | LotAcreage | 0.95 | 6.90 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblProjectCharacteristics | CO2IntensityFactor | 720.49 | 456 |
| tblTripsAndVMT | WorkerTripNumber | 3.00 | 0.00 |
| tblVehicleTrips | ST_TR | 1.32 | 2.02 |
| tblVehicleTrips | SU_TR | 0.68 | 2.02 |
| tblVehicleTrips | WD_TR | 6.97 | 2.02 |

# 2.0 Emissions Summary

## 2.2 Overall Operational

### Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.2105 | 0.0000 | 3.8000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 7.4000e-004 | 7.4000e-004 | 0.0000 | 0.0000 | 7.9000e-004 |
| Energy | 2.5900e-003 | 0.0236 | 0.0198 | 1.4000e-004 | | 1.7900e-003 | 1.7900e-003 | | 1.7900e-003 | 1.7900e-003 | 0.0000 | 97.0721 | 97.0721 | 5.0300e-003 | 1.4100e-003 | 97.6182 |
| Mobile | 0.0259 | 0.1157 | 0.3160 | 1.0800e-003 | 0.0924 | 9.1000e-004 | 0.0933 | 0.0247 | 8.5000e-004 | 0.0256 | 0.0000 | 99.1201 | 99.1201 | 5.2400e-003 | 0.0000 | 99.2512 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 10.4601 | 0.0000 | 10.4601 | 0.6182 | 0.0000 | 25.9145 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 3.0491 | 25.8841 | 28.9331 | 0.3148 | 7.7400e-003 | 39.1085 |
| **Total** | **0.2390** | **0.1392** | **0.3362** | **1.2200e-003** | **0.0924** | **2.7000e-003** | **0.0951** | **0.0247** | **2.6400e-003** | **0.0274** | **13.5092** | **222.0770** | **235.5862** | **0.9433** | **9.1500e-003** | **261.8931** |

**Mitigated Operational**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.2105 | 0.0000 | 3.8000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 7.4000e-004 | 7.4000e-004 | 0.0000 | 0.0000 | 7.9000e-004 |
| Energy | 2.5900e-003 | 0.0236 | 0.0198 | 1.4000e-004 | | 1.7900e-003 | 1.7900e-003 | | 1.7900e-003 | 1.7900e-003 | 0.0000 | 97.0721 | 97.0721 | 5.0300e-003 | 1.4100e-003 | 97.6182 |
| Mobile | 0.0259 | 0.1157 | 0.3160 | 1.0800e-003 | 0.0924 | 9.1000e-004 | 0.0933 | 0.0247 | 8.5000e-004 | 0.0256 | 0.0000 | 99.1201 | 99.1201 | 5.2400e-003 | 0.0000 | 99.2512 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 10.4601 | 0.0000 | 10.4601 | 0.6182 | 0.0000 | 25.9145 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 3.0491 | 25.8841 | 28.9331 | 0.3148 | 7.7400e-003 | 39.1085 |
| **Total** | **0.2390** | **0.1392** | **0.3362** | **1.2200e-003** | **0.0924** | **2.7000e-003** | **0.0951** | **0.0247** | **2.6400e-003** | **0.0274** | **13.5092** | **222.0770** | **235.5862** | **0.9433** | **9.1500e-003** | **261.8931** |

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

# 4.0 Operational Detail - Mobile

## 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.0259 | 0.1157 | 0.3160 | 1.0800e-003 | 0.0924 | 9.1000e-004 | 0.0933 | 0.0247 | 8.5000e-004 | 0.0256 | 0.0000 | 99.1201 | 99.1201 | 5.2400e-003 | 0.0000 | 99.2512 |
| Unmitigated | 0.0259 | 0.1157 | 0.3160 | 1.0800e-003 | 0.0924 | 9.1000e-004 | 0.0933 | 0.0247 | 8.5000e-004 | 0.0256 | 0.0000 | 99.1201 | 99.1201 | 5.2400e-003 | 0.0000 | 99.2512 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| General Light Industry | 83.95 | 83.95 | 83.95 | 245,096 | 245,096 |
| Total | 83.95 | 83.95 | 83.95 | 245,096 | 245,096 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| General Light Industry | 9.50 | 7.30 | 7.30 | 59.00 | 28.00 | 13.00 | 92 | 5 | 3 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| General Light Industry | 0.593936 | 0.041843 | 0.182569 | 0.108325 | 0.016436 | 0.005513 | 0.015940 | 0.023523 | 0.001912 | 0.001972 | 0.006090 | 0.000748 | 0.001193 |

# 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 | 71.4344 | 71.4344 | 4.5400e-003 | 9.4000e-004 | 71.8280 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 71.4344 | 71.4344 | 4.5400e-003 | 9.4000e-004 | 71.8280 |
| NaturalGas Mitigated | 2.5900e-003 | 0.0236 | 0.0198 | 1.4000e-004 | | 1.7900e-003 | 1.7900e-003 | | 1.7900e-003 | 1.7900e-003 | 0.0000 | 25.6378 | 25.6378 | 4.9000e-004 | 4.7000e-004 | 25.7901 |
| NaturalGas Unmitigated | 2.5900e-003 | 0.0236 | 0.0198 | 1.4000e-004 | | 1.7900e-003 | 1.7900e-003 | | 1.7900e-003 | 1.7900e-003 | 0.0000 | 25.6378 | 25.6378 | 4.9000e-004 | 4.7000e-004 | 25.7901 |

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| General Light Industry | 480434 | 2.5900e-003 | 0.0236 | 0.0198 | 1.4000e-004 | | 1.7900e-003 | 1.7900e-003 | | 1.7900e-003 | 1.7900e-003 | 0.0000 | 25.6378 | 25.6378 | 4.9000e-004 | 4.7000e-004 | 25.7901 |
| **Total** | | **2.5900e-003** | **0.0236** | **0.0198** | **1.4000e-004** | | **1.7900e-003** | **1.7900e-003** | | **1.7900e-003** | **1.7900e-003** | **0.0000** | **25.6378** | **25.6378** | **4.9000e-004** | **4.7000e-004** | **25.7901** |

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| General Light Industry | 480434 | 2.5900e-003 | 0.0236 | 0.0198 | 1.4000e-004 | | 1.7900e-003 | 1.7900e-003 | | 1.7900e-003 | 1.7900e-003 | 0.0000 | 25.6378 | 25.6378 | 4.9000e-004 | 4.7000e-004 | 25.7901 |
| **Total** | | **2.5900e-003** | **0.0236** | **0.0198** | **1.4000e-004** | | **1.7900e-003** | **1.7900e-003** | | **1.7900e-003** | **1.7900e-003** | **0.0000** | **25.6378** | **25.6378** | **4.9000e-004** | **4.7000e-004** | **25.7901** |

## 5.3 Energy by Land Use - Electricity

**Unmitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| General Light Industry | 345364 | 71.4344 | 4.5400e-003 | 9.4000e-004 | 71.8280 |
| **Total** | | **71.4344** | **4.5400e-003** | **9.4000e-004** | **71.8280** |

**Mitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| General Light Industry | 345364 | 71.4344 | 4.5400e-003 | 9.4000e-004 | 71.8280 |
| **Total** | | **71.4344** | **4.5400e-003** | **9.4000e-004** | **71.8280** |

# 6.0 Area Detail

## 6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.2105 | 0.0000 | 3.8000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 7.4000e-004 | 7.4000e-004 | 0.0000 | 0.0000 | 7.9000e-004 |
| Unmitigated | 0.2105 | 0.0000 | 3.8000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 7.4000e-004 | 7.4000e-004 | 0.0000 | 0.0000 | 7.9000e-004 |

## 6.2 Area by SubCategory

### Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.0482 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.1623 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 4.0000e-005 | 0.0000 | 3.8000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 7.4000e-004 | 7.4000e-004 | 0.0000 | 0.0000 | 7.9000e-004 |
| **Total** | **0.2105** | **0.0000** | **3.8000e-004** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | **7.4000e-004** | **7.4000e-004** | **0.0000** | **0.0000** | **7.9000e-004** |

### Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.0482 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.1623 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 4.0000e-005 | 0.0000 | 3.8000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 7.4000e-004 | 7.4000e-004 | 0.0000 | 0.0000 | 7.9000e-004 |
| **Total** | **0.2105** | **0.0000** | **3.8000e-004** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | **7.4000e-004** | **7.4000e-004** | **0.0000** | **0.0000** | **7.9000e-004** |

# 7.0 Water Detail

## 7.1 Mitigation Measures Water

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| Category | MT/yr | | | |
| Mitigated | 28.9331 | 0.3148 | 7.7400e-003 | 39.1085 |
| Unmitigated | 28.9331 | 0.3148 | 7.7400e-003 | 39.1085 |

## 7.2 Water by Land Use

### Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| General Light Industry | 9.61075 / 0 | 28.9331 | 0.3148 | 7.7400e-003 | 39.1085 |
| **Total** | | **28.9331** | **0.3148** | **7.7400e-003** | **39.1085** |

### Mitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| General Light Industry | 9.61075 / 0 | 28.9331 | 0.3148 | 7.7400e-003 | 39.1085 |
| **Total** | | **28.9331** | **0.3148** | **7.7400e-003** | **39.1085** |

# 8.0 Waste Detail

## 8.1 Mitigation Measures Waste

### Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| | MT/yr | | | |
| Mitigated | 10.4601 | 0.6182 | 0.0000 | 25.9145 |
| Unmitigated | 10.4601 | 0.6182 | 0.0000 | 25.9145 |

## 8.2 Waste by Land Use

### Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| General Light Industry | 51.53 | 10.4601 | 0.6182 | 0.0000 | 25.9145 |
| **Total** | | **10.4601** | **0.6182** | **0.0000** | **25.9145** |

### Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| General Light Industry | 51.53 | 10.4601 | 0.6182 | 0.0000 | 25.9145 |
| **Total** | | **10.4601** | **0.6182** | **0.0000** | **25.9145** |

# Moss Street Existing Emissions (2021)

**San Diego County, Summer**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| General Light Industry | 41.56 | 1000sqft | 6.90 | 41,560.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.6 | **Precipitation Freq (Days)** | 40 |
| **Climate Zone** | 13 | | | **Operational Year** | 2021 |
| **Utility Company** | San Diego Gas & Electric | | | | |
| **CO2 Intensity (lb/MWhr)** | 456 | **CH4 Intensity (lb/MWhr)** | 0.029 | **N2O Intensity (lb/MWhr)** | 0.006 |

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

Project Characteristics - Existing emissions modeled using the 2021 operational year to net from 2021 proposed project emissions
CO2 intensity adjusted based on SD Gas and Electric Renewable Energy Portfolio

Land Use - 3 existing general light industrial buildings (15,046 square feet, 20,430 square feet and 6,085 square feet) totaling to 41, 560 square feet as measured by using Google Earth.
Lot Acreage as provided in the Project Description.

Construction Phase - Existing operations run only

Off-road Equipment - Existing operations run only

Off-road Equipment - Operation Only.

Trips and VMT - Existing operations run only

Architectural Coating - Existing operations run only

Vehicle Trips - Adjusted trip generation rates to match existing trips presented in the project-specific Transportation Impact Analysis.
Linscott Law & Greenspan engineers. 2018. Draft Transportation Impact Analysis, 676 Moss Street Chula Vista, California. December 20.

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 20,780.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 62,340.00 | 0.00 |
| tblConstructionPhase | NumDays | 20.00 | 0.00 |
| tblLandUse | LotAcreage | 0.95 | 6.90 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblProjectCharacteristics | CO2IntensityFactor | 720.49 | 456 |
| tblTripsAndVMT | WorkerTripNumber | 3.00 | 0.00 |
| tblVehicleTrips | ST_TR | 1.32 | 2.02 |
| tblVehicleTrips | SU_TR | 0.68 | 2.02 |
| tblVehicleTrips | WD_TR | 6.97 | 2.02 |

# 2.0 Emissions Summary

## 2.2 Overall Operational

### Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 1.1537 | 4.0000e-005 | 4.2600e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 9.1000e-003 | 9.1000e-003 | 2.0000e-005 | | 9.7000e-003 |
| Energy | 0.0142 | 0.1290 | 0.1084 | 7.7000e-004 | | 9.8100e-003 | 9.8100e-003 | | 9.8100e-003 | 9.8100e-003 | | 154.8537 | 154.8537 | 2.9700e-003 | 2.8400e-003 | 155.7739 |
| Mobile | 0.1500 | 0.6154 | 1.7899 | 6.1800e-003 | 0.5197 | 5.0100e-003 | 0.5247 | 0.1389 | 4.6900e-003 | 0.1436 | | 627.1438 | 627.1438 | 0.0320 | | 627.9439 |
| **Total** | **1.3178** | **0.7445** | **1.9026** | **6.9500e-003** | **0.5197** | **0.0148** | **0.5346** | **0.1389** | **0.0145** | **0.1534** | | **782.0066** | **782.0066** | **0.0350** | **2.8400e-003** | **783.7275** |

**Mitigated Operational**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 1.1537 | 4.0000e-005 | 4.2600e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 9.1000e-003 | 9.1000e-003 | 2.0000e-005 | | 9.7000e-003 |
| Energy | 0.0142 | 0.1290 | 0.1084 | 7.7000e-004 | | 9.8100e-003 | 9.8100e-003 | | 9.8100e-003 | 9.8100e-003 | | 154.8537 | 154.8537 | 2.9700e-003 | 2.8400e-003 | 155.7739 |
| Mobile | 0.1500 | 0.6154 | 1.7899 | 6.1800e-003 | 0.5197 | 5.0100e-003 | 0.5247 | 0.1389 | 4.6900e-003 | 0.1436 | | 627.1438 | 627.1438 | 0.0320 | | 627.9439 |
| **Total** | **1.3178** | **0.7445** | **1.9026** | **6.9500e-003** | **0.5197** | **0.0148** | **0.5346** | **0.1389** | **0.0145** | **0.1534** | | **782.0066** | **782.0066** | **0.0350** | **2.8400e-003** | **783.7275** |

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

# 4.0 Operational Detail - Mobile

## 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 0.1500 | 0.6154 | 1.7899 | 6.1800e-003 | 0.5197 | 5.0100e-003 | 0.5247 | 0.1389 | 4.6900e-003 | 0.1436 | | 627.1438 | 627.1438 | 0.0320 | | 627.9439 |
| Unmitigated | 0.1500 | 0.6154 | 1.7899 | 6.1800e-003 | 0.5197 | 5.0100e-003 | 0.5247 | 0.1389 | 4.6900e-003 | 0.1436 | | 627.1438 | 627.1438 | 0.0320 | | 627.9439 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| General Light Industry | 83.95 | 83.95 | 83.95 | 245,096 | 245,096 |
| Total | 83.95 | 83.95 | 83.95 | 245,096 | 245,096 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| General Light Industry | 9.50 | 7.30 | 7.30 | 59.00 | 28.00 | 13.00 | 92 | 5 | 3 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| General Light Industry | 0.593936 | 0.041843 | 0.182569 | 0.108325 | 0.016436 | 0.005513 | 0.015940 | 0.023523 | 0.001912 | 0.001972 | 0.006090 | 0.000748 | 0.001193 |

# 5.0 Energy Detail

Historical Energy Use: N

## 5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0142 | 0.1290 | 0.1084 | 7.7000e-004 | | 9.8100e-003 | 9.8100e-003 | | 9.8100e-003 | 9.8100e-003 | | 154.8537 | 154.8537 | 2.9700e-003 | 2.8400e-003 | 155.7739 |
| NaturalGas Unmitigated | 0.0142 | 0.1290 | 0.1084 | 7.7000e-004 | | 9.8100e-003 | 9.8100e-003 | | 9.8100e-003 | 9.8100e-003 | | 154.8537 | 154.8537 | 2.9700e-003 | 2.8400e-003 | 155.7739 |

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| General Light Industry | 1316.26 | 0.0142 | 0.1290 | 0.1084 | 7.7000e-004 | | 9.8100e-003 | 9.8100e-003 | | 9.8100e-003 | 9.8100e-003 | | 154.8537 | 154.8537 | 2.9700e-003 | 2.8400e-003 | 155.7739 |
| **Total** | | **0.0142** | **0.1290** | **0.1084** | **7.7000e-004** | | **9.8100e-003** | **9.8100e-003** | | **9.8100e-003** | **9.8100e-003** | | **154.8537** | **154.8537** | **2.9700e-003** | **2.8400e-003** | **155.7739** |

### Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| General Light Industry | 1.31626 | 0.0142 | 0.1290 | 0.1084 | 7.7000e-004 | | 9.8100e-003 | 9.8100e-003 | | 9.8100e-003 | 9.8100e-003 | | 154.8537 | 154.8537 | 2.9700e-003 | 2.8400e-003 | 155.7739 |
| **Total** | | **0.0142** | **0.1290** | **0.1084** | **7.7000e-004** | | **9.8100e-003** | **9.8100e-003** | | **9.8100e-003** | **9.8100e-003** | | **154.8537** | **154.8537** | **2.9700e-003** | **2.8400e-003** | **155.7739** |

# 6.0 Area Detail

## 6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 1.1537 | 4.0000e-005 | 4.2600e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 9.1000e-003 | 9.1000e-003 | 2.0000e-005 | | 9.7000e-003 |
| Unmitigated | 1.1537 | 4.0000e-005 | 4.2600e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 9.1000e-003 | 9.1000e-003 | 2.0000e-005 | | 9.7000e-003 |

## 6.2 Area by SubCategory

### Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.2639 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.8894 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 4.0000e-004 | 4.0000e-005 | 4.2600e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 9.1000e-003 | 9.1000e-003 | 2.0000e-005 | | 9.7000e-003 |
| **Total** | **1.1537** | **4.0000e-005** | **4.2600e-003** | **0.0000** | | **2.0000e-005** | **2.0000e-005** | | **2.0000e-005** | **2.0000e-005** | | **9.1000e-003** | **9.1000e-003** | **2.0000e-005** | | **9.7000e-003** |

### Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.2639 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.8894 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 4.0000e-004 | 4.0000e-005 | 4.2600e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 9.1000e-003 | 9.1000e-003 | 2.0000e-005 | | 9.7000e-003 |
| **Total** | **1.1537** | **4.0000e-005** | **4.2600e-003** | **0.0000** | | **2.0000e-005** | **2.0000e-005** | | **2.0000e-005** | **2.0000e-005** | | **9.1000e-003** | **9.1000e-003** | **2.0000e-005** | | **9.7000e-003** |

# Moss Street Existing Emissions (2021)

**San Diego County, Winter**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| General Light Industry | 41.56 | 1000sqft | 6.90 | 41,560.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.6 | **Precipitation Freq (Days)** | 40 |
| **Climate Zone** | 13 | | | **Operational Year** | 2021 |
| **Utility Company** | San Diego Gas & Electric | | | | |
| **CO2 Intensity (lb/MWhr)** | 456 | **CH4 Intensity (lb/MWhr)** | 0.029 | **N2O Intensity (lb/MWhr)** | 0.006 |

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

Project Characteristics - Existing emissions modeled using the 2021 operational year to net from 2021 proposed project emissions
CO2 intensity adjusted based on SD Gas and Electric Renewable Energy Portfolio

Land Use - 3 existing general light industrial buildings (15,046 square feet, 20,430 square feet and 6,085 square feet) totaling to 41, 560 square feet as measured by using Google Earth.
Lot Acreage as provided in the Project Description.

Construction Phase - Existing operations run only

Off-road Equipment - Existing operations run only

Off-road Equipment - Operation Only.

Trips and VMT - Existing operations run only

Architectural Coating - Existing operations run only

Vehicle Trips - Adjusted trip generation rates to match existing trips presented in the project-specific Transportation Impact Analysis.
Linscott Law & Greenspan engineers. 2018. Draft Transportation Impact Analysis, 676 Moss Street Chula Vista, California. December 20.

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 20,780.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 62,340.00 | 0.00 |
| tblConstructionPhase | NumDays | 20.00 | 0.00 |
| tblLandUse | LotAcreage | 0.95 | 6.90 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblProjectCharacteristics | CO2IntensityFactor | 720.49 | 456 |
| tblTripsAndVMT | WorkerTripNumber | 3.00 | 0.00 |
| tblVehicleTrips | ST_TR | 1.32 | 2.02 |
| tblVehicleTrips | SU_TR | 0.68 | 2.02 |
| tblVehicleTrips | WD_TR | 6.97 | 2.02 |

# 2.0 Emissions Summary

## 2.2 Overall Operational

### Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 1.1537 | 4.0000e-005 | 4.2600e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 9.1000e-003 | 9.1000e-003 | 2.0000e-005 | | 9.7000e-003 |
| Energy | 0.0142 | 0.1290 | 0.1084 | 7.7000e-004 | | 9.8100e-003 | 9.8100e-003 | | 9.8100e-003 | 9.8100e-003 | | 154.8537 | 154.8537 | 2.9700e-003 | 2.8400e-003 | 155.7739 |
| Mobile | 0.1456 | 0.6338 | 1.7543 | 5.8600e-003 | 0.5197 | 5.0500e-003 | 0.5248 | 0.1389 | 4.7200e-003 | 0.1436 | | 594.8315 | 594.8315 | 0.0321 | | 595.6334 |
| **Total** | **1.3135** | **0.7628** | **1.8670** | **6.6300e-003** | **0.5197** | **0.0149** | **0.5346** | **0.1389** | **0.0146** | **0.1535** | | **749.6943** | **749.6943** | **0.0351** | **2.8400e-003** | **751.4171** |

**Mitigated Operational**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 1.1537 | 4.0000e-005 | 4.2600e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 9.1000e-003 | 9.1000e-003 | 2.0000e-005 | | 9.7000e-003 |
| Energy | 0.0142 | 0.1290 | 0.1084 | 7.7000e-004 | | 9.8100e-003 | 9.8100e-003 | | 9.8100e-003 | 9.8100e-003 | | 154.8537 | 154.8537 | 2.9700e-003 | 2.8400e-003 | 155.7739 |
| Mobile | 0.1456 | 0.6338 | 1.7543 | 5.8600e-003 | 0.5197 | 5.0500e-003 | 0.5248 | 0.1389 | 4.7200e-003 | 0.1436 | | 594.8315 | 594.8315 | 0.0321 | | 595.6334 |
| **Total** | **1.3135** | **0.7628** | **1.8670** | **6.6300e-003** | **0.5197** | **0.0149** | **0.5346** | **0.1389** | **0.0146** | **0.1535** | | **749.6943** | **749.6943** | **0.0351** | **2.8400e-003** | **751.4171** |

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

# 4.0 Operational Detail - Mobile

## 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 0.1456 | 0.6338 | 1.7543 | 5.8600e-003 | 0.5197 | 5.0500e-003 | 0.5248 | 0.1389 | 4.7200e-003 | 0.1436 | | 594.8315 | 594.8315 | 0.0321 | | 595.6334 |
| Unmitigated | 0.1456 | 0.6338 | 1.7543 | 5.8600e-003 | 0.5197 | 5.0500e-003 | 0.5248 | 0.1389 | 4.7200e-003 | 0.1436 | | 594.8315 | 594.8315 | 0.0321 | | 595.6334 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| General Light Industry | 83.95 | 83.95 | 83.95 | 245,096 | 245,096 |
| Total | 83.95 | 83.95 | 83.95 | 245,096 | 245,096 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| General Light Industry | 9.50 | 7.30 | 7.30 | 59.00 | 28.00 | 13.00 | 92 | 5 | 3 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| General Light Industry | 0.593936 | 0.041843 | 0.182569 | 0.108325 | 0.016436 | 0.005513 | 0.015940 | 0.023523 | 0.001912 | 0.001972 | 0.006090 | 0.000748 | 0.001193 |

# 5.0 Energy Detail

Historical Energy Use: N

## 5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0142 | 0.1290 | 0.1084 | 7.7000e-004 | | 9.8100e-003 | 9.8100e-003 | | 9.8100e-003 | 9.8100e-003 | | 154.8537 | 154.8537 | 2.9700e-003 | 2.8400e-003 | 155.7739 |
| NaturalGas Unmitigated | 0.0142 | 0.1290 | 0.1084 | 7.7000e-004 | | 9.8100e-003 | 9.8100e-003 | | 9.8100e-003 | 9.8100e-003 | | 154.8537 | 154.8537 | 2.9700e-003 | 2.8400e-003 | 155.7739 |

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| General Light Industry | 1316.26 | 0.0142 | 0.1290 | 0.1084 | 7.7000e-004 | | 9.8100e-003 | 9.8100e-003 | | 9.8100e-003 | 9.8100e-003 | | 154.8537 | 154.8537 | 2.9700e-003 | 2.8400e-003 | 155.7739 |
| **Total** | | **0.0142** | **0.1290** | **0.1084** | **7.7000e-004** | | **9.8100e-003** | **9.8100e-003** | | **9.8100e-003** | **9.8100e-003** | | **154.8537** | **154.8537** | **2.9700e-003** | **2.8400e-003** | **155.7739** |

### Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| General Light Industry | 1.31626 | 0.0142 | 0.1290 | 0.1084 | 7.7000e-004 | | 9.8100e-003 | 9.8100e-003 | | 9.8100e-003 | 9.8100e-003 | | 154.8537 | 154.8537 | 2.9700e-003 | 2.8400e-003 | 155.7739 |
| **Total** | | **0.0142** | **0.1290** | **0.1084** | **7.7000e-004** | | **9.8100e-003** | **9.8100e-003** | | **9.8100e-003** | **9.8100e-003** | | **154.8537** | **154.8537** | **2.9700e-003** | **2.8400e-003** | **155.7739** |

# 6.0 Area Detail

## 6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 1.1537 | 4.0000e-005 | 4.2600e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 9.1000e-003 | 9.1000e-003 | 2.0000e-005 | | 9.7000e-003 |
| Unmitigated | 1.1537 | 4.0000e-005 | 4.2600e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 9.1000e-003 | 9.1000e-003 | 2.0000e-005 | | 9.7000e-003 |

## 6.2 Area by SubCategory

### Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.2639 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.8894 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 4.0000e-004 | 4.0000e-005 | 4.2600e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 9.1000e-003 | 9.1000e-003 | 2.0000e-005 | | 9.7000e-003 |
| **Total** | **1.1537** | **4.0000e-005** | **4.2600e-003** | **0.0000** | | **2.0000e-005** | **2.0000e-005** | | **2.0000e-005** | **2.0000e-005** | | **9.1000e-003** | **9.1000e-003** | **2.0000e-005** | | **9.7000e-003** |

### Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.2639 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.8894 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 4.0000e-004 | 4.0000e-005 | 4.2600e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 9.1000e-003 | 9.1000e-003 | 2.0000e-005 | | 9.7000e-003 |
| **Total** | **1.1537** | **4.0000e-005** | **4.2600e-003** | **0.0000** | | **2.0000e-005** | **2.0000e-005** | | **2.0000e-005** | **2.0000e-005** | | **9.1000e-003** | **9.1000e-003** | **2.0000e-005** | | **9.7000e-003** |

# Moss Street Existing Emissions (2030)

**San Diego County, Annual**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| General Light Industry | 41.56 | 1000sqft | 6.90 | 41,560.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.6 | **Precipitation Freq (Days)** | 40 |
| **Climate Zone** | 13 | | | **Operational Year** | 2030 |
| **Utility Company** | San Diego Gas & Electric | | | | |
| **CO2 Intensity (lb/MWhr)** | 400 | **CH4 Intensity (lb/MWhr)** | 0.029 | **N2O Intensity (lb/MWhr)** | 0.006 |

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

Project Characteristics - Existing emissions modeled using the 2030 operational year to net from 2030 proposed project emissions
CO2 intensity adjusted based on SD Gas and Electric Renewable Energy Portfolio

Land Use - 3 existing general light industrial buildings (15,046 square feet, 20,430 square feet and 6,085 square feet) totaling to 41, 560 square feet as measured by using Google Earth.
Lot Acreage as provided in the Project Description.

Construction Phase - Existing operations run only

Off-road Equipment - Existing operations run only

Off-road Equipment - Operation Only.

Trips and VMT - Existing operations run only

Architectural Coating - Existing operations run only

Vehicle Trips - Adjusted trip generation rates to match existing trips presented in the project-specific Transportation Impact Analysis.
Linscott Law & Greenspan engineers. 2018. Draft Transportation Impact Analysis, 676 Moss Street Chula Vista, California. December 20.

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 20,780.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 62,340.00 | 0.00 |
| tblConstructionPhase | NumDays | 20.00 | 0.00 |
| tblLandUse | LotAcreage | 0.95 | 6.90 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblProjectCharacteristics | CO2IntensityFactor | 720.49 | 400 |
| tblTripsAndVMT | WorkerTripNumber | 3.00 | 0.00 |
| tblVehicleTrips | ST_TR | 1.32 | 2.02 |
| tblVehicleTrips | SU_TR | 0.68 | 2.02 |
| tblVehicleTrips | WD_TR | 6.97 | 2.02 |

# 2.0 Emissions Summary

## 2.2 Overall Operational

### Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.2105 | 0.0000 | 3.8000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 7.4000e-004 | 7.4000e-004 | 0.0000 | 0.0000 | 7.9000e-004 |
| Energy | 2.5900e-003 | 0.0236 | 0.0198 | 1.4000e-004 | | 1.7900e-003 | 1.7900e-003 | | 1.7900e-003 | 1.7900e-003 | 0.0000 | 88.2995 | 88.2995 | 5.0300e-003 | 1.4100e-003 | 88.8455 |
| Mobile | 0.0165 | 0.0716 | 0.2003 | 8.3000e-004 | 0.0923 | 5.4000e-004 | 0.0929 | 0.0247 | 5.0000e-004 | 0.0252 | 0.0000 | 76.7447 | 76.7447 | 3.6900e-003 | 0.0000 | 76.8370 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 10.4601 | 0.0000 | 10.4601 | 0.6182 | 0.0000 | 25.9145 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 3.0491 | 22.7053 | 25.7544 | 0.3148 | 7.7400e-003 | 35.9297 |
| **Total** | **0.2296** | **0.0952** | **0.2205** | **9.7000e-004** | **0.0923** | **2.3300e-003** | **0.0946** | **0.0247** | **2.2900e-003** | **0.0270** | **13.5092** | **187.7502** | **201.2594** | **0.9417** | **9.1500e-003** | **227.5276** |

**Mitigated Operational**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.2105 | 0.0000 | 3.8000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 7.4000e-004 | 7.4000e-004 | 0.0000 | 0.0000 | 7.9000e-004 |
| Energy | 2.5900e-003 | 0.0236 | 0.0198 | 1.4000e-004 | | 1.7900e-003 | 1.7900e-003 | | 1.7900e-003 | 1.7900e-003 | 0.0000 | 88.2995 | 88.2995 | 5.0300e-003 | 1.4100e-003 | 88.8455 |
| Mobile | 0.0165 | 0.0716 | 0.2003 | 8.3000e-004 | 0.0923 | 5.4000e-004 | 0.0929 | 0.0247 | 5.0000e-004 | 0.0252 | 0.0000 | 76.7447 | 76.7447 | 3.6900e-003 | 0.0000 | 76.8370 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 10.4601 | 0.0000 | 10.4601 | 0.6182 | 0.0000 | 25.9145 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 3.0491 | 22.7053 | 25.7544 | 0.3148 | 7.7400e-003 | 35.9297 |
| **Total** | **0.2296** | **0.0952** | **0.2205** | **9.7000e-004** | **0.0923** | **2.3300e-003** | **0.0946** | **0.0247** | **2.2900e-003** | **0.0270** | **13.5092** | **187.7502** | **201.2594** | **0.9417** | **9.1500e-003** | **227.5276** |

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

# 4.0 Operational Detail - Mobile

## 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.0165 | 0.0716 | 0.2003 | 8.3000e-004 | 0.0923 | 5.4000e-004 | 0.0929 | 0.0247 | 5.0000e-004 | 0.0252 | 0.0000 | 76.7447 | 76.7447 | 3.6900e-003 | 0.0000 | 76.8370 |
| Unmitigated | 0.0165 | 0.0716 | 0.2003 | 8.3000e-004 | 0.0923 | 5.4000e-004 | 0.0929 | 0.0247 | 5.0000e-004 | 0.0252 | 0.0000 | 76.7447 | 76.7447 | 3.6900e-003 | 0.0000 | 76.8370 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| General Light Industry | 83.95 | 83.95 | 83.95 | 245,096 | 245,096 |
| Total | 83.95 | 83.95 | 83.95 | 245,096 | 245,096 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| General Light Industry | 9.50 | 7.30 | 7.30 | 59.00 | 28.00 | 13.00 | 92 | 5 | 3 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| General Light Industry | 0.616428 | 0.037185 | 0.177402 | 0.097684 | 0.012090 | 0.005279 | 0.017663 | 0.025476 | 0.001931 | 0.001677 | 0.005617 | 0.000785 | 0.000782 |

# 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 | 62.6617 | 62.6617 | 4.5400e-003 | 9.4000e-004 | 63.0554 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 62.6617 | 62.6617 | 4.5400e-003 | 9.4000e-004 | 63.0554 |
| NaturalGas Mitigated | 2.5900e-003 | 0.0236 | 0.0198 | 1.4000e-004 | | 1.7900e-003 | 1.7900e-003 | | 1.7900e-003 | 1.7900e-003 | 0.0000 | 25.6378 | 25.6378 | 4.9000e-004 | 4.7000e-004 | 25.7901 |
| NaturalGas Unmitigated | 2.5900e-003 | 0.0236 | 0.0198 | 1.4000e-004 | | 1.7900e-003 | 1.7900e-003 | | 1.7900e-003 | 1.7900e-003 | 0.0000 | 25.6378 | 25.6378 | 4.9000e-004 | 4.7000e-004 | 25.7901 |

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| General Light Industry | 480434 | 2.5900e-003 | 0.0236 | 0.0198 | 1.4000e-004 | | 1.7900e-003 | 1.7900e-003 | | 1.7900e-003 | 1.7900e-003 | 0.0000 | 25.6378 | 25.6378 | 4.9000e-004 | 4.7000e-004 | 25.7901 |
| **Total** | | **2.5900e-003** | **0.0236** | **0.0198** | **1.4000e-004** | | **1.7900e-003** | **1.7900e-003** | | **1.7900e-003** | **1.7900e-003** | **0.0000** | **25.6378** | **25.6378** | **4.9000e-004** | **4.7000e-004** | **25.7901** |

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| General Light Industry | 480434 | 2.5900e-003 | 0.0236 | 0.0198 | 1.4000e-004 | | 1.7900e-003 | 1.7900e-003 | | 1.7900e-003 | 1.7900e-003 | 0.0000 | 25.6378 | 25.6378 | 4.9000e-004 | 4.7000e-004 | 25.7901 |
| **Total** | | **2.5900e-003** | **0.0236** | **0.0198** | **1.4000e-004** | | **1.7900e-003** | **1.7900e-003** | | **1.7900e-003** | **1.7900e-003** | **0.0000** | **25.6378** | **25.6378** | **4.9000e-004** | **4.7000e-004** | **25.7901** |

## 5.3 Energy by Land Use - Electricity

**Unmitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| General Light Industry | 345364 | 62.6617 | 4.5400e-003 | 9.4000e-004 | 63.0554 |
| **Total** | | **62.6617** | **4.5400e-003** | **9.4000e-004** | **63.0554** |

**Mitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| General Light Industry | 345364 | 62.6617 | 4.5400e-003 | 9.4000e-004 | 63.0554 |
| **Total** | | **62.6617** | **4.5400e-003** | **9.4000e-004** | **63.0554** |

# 6.0 Area Detail

## 6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.2105 | 0.0000 | 3.8000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 7.4000e-004 | 7.4000e-004 | 0.0000 | 0.0000 | 7.9000e-004 |
| Unmitigated | 0.2105 | 0.0000 | 3.8000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 7.4000e-004 | 7.4000e-004 | 0.0000 | 0.0000 | 7.9000e-004 |

## 6.2 Area by SubCategory

### Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.0482 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.1623 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 3.0000e-005 | 0.0000 | 3.8000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 7.4000e-004 | 7.4000e-004 | 0.0000 | 0.0000 | 7.9000e-004 |
| **Total** | **0.2105** | **0.0000** | **3.8000e-004** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | **7.4000e-004** | **7.4000e-004** | **0.0000** | **0.0000** | **7.9000e-004** |

### Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.0482 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.1623 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 3.0000e-005 | 0.0000 | 3.8000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 7.4000e-004 | 7.4000e-004 | 0.0000 | 0.0000 | 7.9000e-004 |
| **Total** | **0.2105** | **0.0000** | **3.8000e-004** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | **7.4000e-004** | **7.4000e-004** | **0.0000** | **0.0000** | **7.9000e-004** |

# 7.0 Water Detail

## 7.1 Mitigation Measures Water

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| Category | MT/yr | | | |
| Mitigated | 25.7544 | 0.3148 | 7.7400e-003 | 35.9297 |
| Unmitigated | 25.7544 | 0.3148 | 7.7400e-003 | 35.9297 |

## 7.2 Water by Land Use

### Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| General Light Industry | 9.61075 / 0 | 25.7544 | 0.3148 | 7.7400e-003 | 35.9297 |
| **Total** | | **25.7544** | **0.3148** | **7.7400e-003** | **35.9297** |

### Mitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| General Light Industry | 9.61075 / 0 | 25.7544 | 0.3148 | 7.7400e-003 | 35.9297 |
| **Total** | | **25.7544** | **0.3148** | **7.7400e-003** | **35.9297** |

# 8.0 Waste Detail

## 8.1 Mitigation Measures Waste

### Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| | MT/yr | | | |
| Mitigated | 10.4601 | 0.6182 | 0.0000 | 25.9145 |
| Unmitigated | 10.4601 | 0.6182 | 0.0000 | 25.9145 |

## 8.2 Waste by Land Use

### Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| General Light Industry | 51.53 | 10.4601 | 0.6182 | 0.0000 | 25.9145 |
| **Total** | | **10.4601** | **0.6182** | **0.0000** | **25.9145** |

### Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| General Light Industry | 51.53 | 10.4601 | 0.6182 | 0.0000 | 25.9145 |
| **Total** | | **10.4601** | **0.6182** | **0.0000** | **25.9145** |

# Current General Plan Designation Buildout (Industrial Park) - Annual VMT

**San Diego County, Annual**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| Industrial Park | 150.28 | 1000sqft | 6.90 | 150,282.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.6 | **Precipitation Freq (Days)** | 40 |
| **Climate Zone** | 13 | | | **Operational Year** | 2021 |
| **Utility Company** | San Diego Gas & Electric | | | | |
| **CO2 Intensity (lb/MWhr)** | 720.49 | **CH4 Intensity (lb/MWhr)** | 0.029 | **N2O Intensity (lb/MWhr)** | 0.006 |

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

Project Characteristics - Current General Plan Designation Buildout (Industrial Park) - Annual Vehicle Miles Traveled

Land Use - Existing site size = 6.9 acres; maximum building area = 150,282 sqft

Construction Phase - Operational run only

Off-road Equipment - Operational run only

Vehicle Trips - ITE Trip Generation Manual, 10th Edition, for Industrial Park land use (ITE code #130).

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblConstructionPhase | NumDays | 20.00 | 1.00 |
| tblLandUse | LandUseSquareFeet | 150,280.00 | 150,282.00 |
| tblLandUse | LotAcreage | 3.45 | 6.90 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 0.00 |
| tblVehicleTrips | ST_TR | 2.49 | 2.54 |
| tblVehicleTrips | SU_TR | 0.73 | 1.24 |
| tblVehicleTrips | WD_TR | 6.83 | 3.37 |

# 2.0 Emissions Summary

## 2.2 Overall Operational

### Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.7612 | 1.0000e-005 | 1.3900e-003 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 2.6900e-003 | 2.6900e-003 | 1.0000e-005 | 0.0000 | 2.8600e-003 |
| Energy | 0.0164 | 0.1487 | 0.1249 | 8.9000e-004 | | 0.0113 | 0.0113 | | 0.0113 | 0.0113 | 0.0000 | 822.0012 | 822.0012 | 0.0297 | 8.4700e-003 | 825.2657 |
| Mobile | 0.1305 | 0.5725 | 1.5353 | 5.1300e-003 | 0.4376 | 4.3800e-003 | 0.4420 | 0.1172 | 4.0900e-003 | 0.1213 | 0.0000 | 472.5869 | 472.5869 | 0.0254 | 0.0000 | 473.2216 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 37.8274 | 0.0000 | 37.8274 | 2.2355 | 0.0000 | 93.7157 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 11.0253 | 147.8839 | 158.9092 | 1.1384 | 0.0280 | 195.7031 |
| **Total** | **0.9080** | **0.7212** | **1.6616** | **6.0200e-003** | **0.4376** | **0.0157** | **0.4533** | **0.1172** | **0.0154** | **0.1326** | **48.8527** | **1,442.4747** | **1,491.3274** | **3.4290** | **0.0364** | **1,587.9091** |

### Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.7612 | 1.0000e-005 | 1.3900e-003 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 2.6900e-003 | 2.6900e-003 | 1.0000e-005 | 0.0000 | 2.8600e-003 |
| Energy | 0.0164 | 0.1487 | 0.1249 | 8.9000e-004 | | 0.0113 | 0.0113 | | 0.0113 | 0.0113 | 0.0000 | 822.0012 | 822.0012 | 0.0297 | 8.4700e-003 | 825.2657 |
| Mobile | 0.1305 | 0.5725 | 1.5353 | 5.1300e-003 | 0.4376 | 4.3800e-003 | 0.4420 | 0.1172 | 4.0900e-003 | 0.1213 | 0.0000 | 472.5869 | 472.5869 | 0.0254 | 0.0000 | 473.2216 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 37.8274 | 0.0000 | 37.8274 | 2.2355 | 0.0000 | 93.7157 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 11.0253 | 147.8839 | 158.9092 | 1.1384 | 0.0280 | 195.7031 |
| **Total** | **0.9080** | **0.7212** | **1.6616** | **6.0200e-003** | **0.4376** | **0.0157** | **0.4533** | **0.1172** | **0.0154** | **0.1326** | **48.8527** | **1,442.4747** | **1,491.3274** | **3.4290** | **0.0364** | **1,587.9091** |

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

# 4.0 Operational Detail - Mobile

## 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.1305 | 0.5725 | 1.5353 | 5.1300e-003 | 0.4376 | 4.3800e-003 | 0.4420 | 0.1172 | 4.0900e-003 | 0.1213 | 0.0000 | 472.5869 | 472.5869 | 0.0254 | 0.0000 | 473.2216 |
| Unmitigated | 0.1305 | 0.5725 | 1.5353 | 5.1300e-003 | 0.4376 | 4.3800e-003 | 0.4420 | 0.1172 | 4.0900e-003 | 0.1213 | 0.0000 | 472.5869 | 472.5869 | 0.0254 | 0.0000 | 473.2216 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Industrial Park | 506.44 | 381.71 | 186.35 | 1,161,199 | 1,161,199 |
| Total | 506.44 | 381.71 | 186.35 | 1,161,199 | 1,161,199 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Industrial Park | 9.50 | 7.30 | 7.30 | 59.00 | 28.00 | 13.00 | 79 | 19 | 2 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Industrial Park | 0.593936 | 0.041843 | 0.182569 | 0.108325 | 0.016436 | 0.005513 | 0.015940 | 0.023523 | 0.001912 | 0.001972 | 0.006090 | 0.000748 | 0.001193 |

# Current General Plan Designation Buildout (Light Industrial) - Annual VMT

**San Diego County, Annual**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| General Light Industry | 150.28 | 1000sqft | 6.90 | 150,282.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.6 | **Precipitation Freq (Days)** | 40 |
| **Climate Zone** | 13 | | | **Operational Year** | 2021 |
| **Utility Company** | San Diego Gas & Electric | | | | |
| **CO2 Intensity (lb/MWhr)** | 720.49 | **CH4 Intensity (lb/MWhr)** | 0.029 | **N2O Intensity (lb/MWhr)** | 0.006 |

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

Project Characteristics - Current General Plan Designation Buildout (Light Industrial) - Annual Vehicle Miles Traveled

Land Use - Existing site size = 6.9 acres; maximum building area = 150,282 sqft

Construction Phase - Operational run only

Vehicle Trips - ITE Trip Generation Manual, 10th Edition, for General Light Industrial land use (ITE code #110).

Off-road Equipment - Operational run only

Trips and VMT - Operational run only

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblConstructionPhase | NumDays | 20.00 | 1.00 |
| tblLandUse | LandUseSquareFeet | 150,280.00 | 150,282.00 |
| tblLandUse | LotAcreage | 3.45 | 6.90 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 0.00 |
| tblTripsAndVMT | WorkerTripNumber | 13.00 | 0.00 |
| tblVehicleTrips | ST_TR | 1.32 | 1.99 |
| tblVehicleTrips | SU_TR | 0.68 | 5.00 |
| tblVehicleTrips | WD_TR | 6.97 | 4.96 |

# 2.0 Emissions Summary

## 2.2 Overall Operational

### Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.7612 | 1.0000e-005 | 1.3900e-003 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 2.6900e-003 | 2.6900e-003 | 1.0000e-005 | 0.0000 | 2.8600e-003 |
| Energy | 9.3700e-003 | 0.0852 | 0.0715 | 5.1000e-004 | | 6.4700e-003 | 6.4700e-003 | | 6.4700e-003 | 6.4700e-003 | 0.0000 | 500.8398 | 500.8398 | 0.0182 | 5.1000e-003 | 502.8142 |
| Mobile | 0.2104 | 0.9403 | 2.5690 | 8.7400e-003 | 0.7509 | 7.4300e-003 | 0.7583 | 0.2011 | 6.9500e-003 | 0.2080 | 0.0000 | 805.8024 | 805.8024 | 0.0426 | 0.0000 | 806.8682 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 37.8274 | 0.0000 | 37.8274 | 2.2355 | 0.0000 | 93.7157 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 11.0253 | 147.8839 | 158.9092 | 1.1384 | 0.0280 | 195.7031 |
| **Total** | **0.9810** | **1.0255** | **2.6419** | **9.2500e-003** | **0.7509** | **0.0139** | **0.7648** | **0.2011** | **0.0134** | **0.2145** | **48.8527** | **1,454.5288** | **1,503.3815** | **3.4347** | **0.0331** | **1,599.1041** |

### Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.7612 | 1.0000e-005 | 1.3900e-003 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 2.6900e-003 | 2.6900e-003 | 1.0000e-005 | 0.0000 | 2.8600e-003 |
| Energy | 9.3700e-003 | 0.0852 | 0.0715 | 5.1000e-004 | | 6.4700e-003 | 6.4700e-003 | | 6.4700e-003 | 6.4700e-003 | 0.0000 | 500.8398 | 500.8398 | 0.0182 | 5.1000e-003 | 502.8142 |
| Mobile | 0.2104 | 0.9403 | 2.5690 | 8.7400e-003 | 0.7509 | 7.4300e-003 | 0.7583 | 0.2011 | 6.9500e-003 | 0.2080 | 0.0000 | 805.8024 | 805.8024 | 0.0426 | 0.0000 | 806.8682 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 37.8274 | 0.0000 | 37.8274 | 2.2355 | 0.0000 | 93.7157 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 11.0253 | 147.8839 | 158.9092 | 1.1384 | 0.0280 | 195.7031 |
| **Total** | **0.9810** | **1.0255** | **2.6419** | **9.2500e-003** | **0.7509** | **0.0139** | **0.7648** | **0.2011** | **0.0134** | **0.2145** | **48.8527** | **1,454.5288** | **1,503.3815** | **3.4347** | **0.0331** | **1,599.1041** |

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

# 4.0 Operational Detail - Mobile

## 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.2104 | 0.9403 | 2.5690 | 8.7400e-003 | 0.7509 | 7.4300e-003 | 0.7583 | 0.2011 | 6.9500e-003 | 0.2080 | 0.0000 | 805.8024 | 805.8024 | 0.0426 | 0.0000 | 806.8682 |
| Unmitigated | 0.2104 | 0.9403 | 2.5690 | 8.7400e-003 | 0.7509 | 7.4300e-003 | 0.7583 | 0.2011 | 6.9500e-003 | 0.2080 | 0.0000 | 805.8024 | 805.8024 | 0.0426 | 0.0000 | 806.8682 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| General Light Industry | 745.39 | 299.06 | 751.40 | 1,992,525 | 1,992,525 |
| Total | 745.39 | 299.06 | 751.40 | 1,992,525 | 1,992,525 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| General Light Industry | 9.50 | 7.30 | 7.30 | 59.00 | 28.00 | 13.00 | 92 | 5 | 3 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| General Light Industry | 0.593936 | 0.041843 | 0.182569 | 0.108325 | 0.016436 | 0.005513 | 0.015940 | 0.023523 | 0.001912 | 0.001972 | 0.006090 | 0.000748 | 0.001193 |

# Current General Plan Designation Buildout (TIA Rate) - Annual VMT

**San Diego County, Annual**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| General Light Industry | 150.28 | 1000sqft | 6.90 | 150,282.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.6 | **Precipitation Freq (Days)** | 40 |
| **Climate Zone** | 13 | | | **Operational Year** | 2021 |
| **Utility Company** | San Diego Gas & Electric | | | | |
| **CO2 Intensity (lb/MWhr)** | 720.49 | **CH4 Intensity (lb/MWhr)** | 0.029 | **N2O Intensity (lb/MWhr)** | 0.006 |

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

Project Characteristics - Current General Plan Designation Buildout (TIA storage rate for existing land use applied to buildout under the current general plan land use designation scenario) - Annual Vehicle Miles Traveled

Land Use - Existing site size = 6.9 acres; maximum building area = 150,282 sqft

Construction Phase - Operational run only

Off-road Equipment - Operational run only

Trips and VMT - Operational run only

Vehicle Trips - Trip generation estimates presented in the TIA prepared for the project by LLG for the existing land use (represented in the TIA as storage) applied to the buildout under the current general plan land use designation scenario.

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblConstructionPhase | NumDays | 20.00 | 1.00 |
| tblLandUse | LandUseSquareFeet | 150,280.00 | 150,282.00 |
| tblLandUse | LotAcreage | 3.45 | 6.90 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 0.00 |
| tblTripsAndVMT | WorkerTripNumber | 13.00 | 0.00 |
| tblVehicleTrips | ST_TR | 1.32 | 2.00 |

| | | | |
|---|---|---|---|
| tblVehicleTrips | SU_TR | 0.68 | 2.00 |
| tblVehicleTrips | WD_TR | 6.97 | 2.00 |

# 2.0 Emissions Summary

## 2.2 Overall Operational

### Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.7612 | 1.0000e-005 | 1.3900e-003 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 2.6900e-003 | 2.6900e-003 | 1.0000e-005 | 0.0000 | 2.8600e-003 |
| Energy | 9.3700e-003 | 0.0852 | 0.0715 | 5.1000e-004 | | 6.4700e-003 | 6.4700e-003 | | 6.4700e-003 | 6.4700e-003 | 0.0000 | 500.8398 | 500.8398 | 0.0182 | 5.1000e-003 | 502.8142 |
| Mobile | 0.0927 | 0.4141 | 1.1314 | 3.8500e-003 | 0.3307 | 3.2700e-003 | 0.3340 | 0.0886 | 3.0600e-003 | 0.0916 | 0.0000 | 354.8674 | 354.8674 | 0.0188 | 0.0000 | 355.3367 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 37.8274 | 0.0000 | 37.8274 | 2.2355 | 0.0000 | 93.7157 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 11.0253 | 147.8839 | 158.9092 | 1.1384 | 0.0280 | 195.7031 |
| **Total** | **0.8632** | **0.4993** | **1.2043** | **4.3600e-003** | **0.3307** | **9.7400e-003** | **0.3404** | **0.0886** | **9.5300e-003** | **0.0981** | **48.8527** | **1,003.5938** | **1,052.4464** | **3.4109** | **0.0331** | **1,147.5726** |

### Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.7612 | 1.0000e-005 | 1.3900e-003 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 2.6900e-003 | 2.6900e-003 | 1.0000e-005 | 0.0000 | 2.8600e-003 |
| Energy | 9.3700e-003 | 0.0852 | 0.0715 | 5.1000e-004 | | 6.4700e-003 | 6.4700e-003 | | 6.4700e-003 | 6.4700e-003 | 0.0000 | 500.8398 | 500.8398 | 0.0182 | 5.1000e-003 | 502.8142 |
| Mobile | 0.0927 | 0.4141 | 1.1314 | 3.8500e-003 | 0.3307 | 3.2700e-003 | 0.3340 | 0.0886 | 3.0600e-003 | 0.0916 | 0.0000 | 354.8674 | 354.8674 | 0.0188 | 0.0000 | 355.3367 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 37.8274 | 0.0000 | 37.8274 | 2.2355 | 0.0000 | 93.7157 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 11.0253 | 147.8839 | 158.9092 | 1.1384 | 0.0280 | 195.7031 |
| **Total** | **0.8632** | **0.4993** | **1.2043** | **4.3600e-003** | **0.3307** | **9.7400e-003** | **0.3404** | **0.0886** | **9.5300e-003** | **0.0981** | **48.8527** | **1,003.5938** | **1,052.4464** | **3.4109** | **0.0331** | **1,147.5726** |

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

# 4.0 Operational Detail - Mobile

## 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.0927 | 0.4141 | 1.1314 | 3.8500e-003 | 0.3307 | 3.2700e-003 | 0.3340 | 0.0886 | 3.0600e-003 | 0.0916 | 0.0000 | 354.8674 | 354.8674 | 0.0188 | 0.0000 | 355.3367 |
| Unmitigated | 0.0927 | 0.4141 | 1.1314 | 3.8500e-003 | 0.3307 | 3.2700e-003 | 0.3340 | 0.0886 | 3.0600e-003 | 0.0916 | 0.0000 | 354.8674 | 354.8674 | 0.0188 | 0.0000 | 355.3367 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| General Light Industry | 300.56 | 300.56 | 300.56 | 877,488 | 877,488 |
| Total | 300.56 | 300.56 | 300.56 | 877,488 | 877,488 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| General Light Industry | 9.50 | 7.30 | 7.30 | 59.00 | 28.00 | 13.00 | 92 | 5 | 3 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| General Light Industry | 0.593936 | 0.041843 | 0.182569 | 0.108325 | 0.016436 | 0.005513 | 0.015940 | 0.023523 | 0.001912 | 0.001972 | 0.006090 | 0.000748 | 0.001193 |

## Moss Street

**No Mitigation**

**Construction Annual DPM Emissions ( as PM10 Exhaust)**

| **Construction Scheduling** | **2019** | | |
|---|---|---|---|
| | 8 | hours/day | |
| | 5 | days/week | |
| | 18 | weeks/year | start from 9/1/2019 |
| | 720 | hours/year | |

**Onsite Construction Area Source Size (m2):** 27603.9 from AERMOD

**Onsite Construction PM10 Emissions**

| **2019** | **Construction Activity** | **Onsite Annual DPM Exhaust Emissions (tons/year)** | **Onsite Annual DPM Exhaust Emissions (g/sec)** | **Onsite DPM Source Exhaust Emissions (g/m2-sec)** |
|---|---|---|---|---|
| | Demolistion | 2.690E-02 | 9.423E-03 | 3.414E-07 |
| | Grading | 2.100E-02 | 7.356E-03 | 2.665E-07 |
| | Building Construction | 1.740E-02 | 6.095E-03 | 2.208E-07 |
| | **Total** | **6.530E-02** | **2.288E-02** | **8.287E-07** |

**Offsite Construction Vehicle PM10 Emissions**

| **2019** | **Construction Activity** | **Offsite Hauling Annual DPM Exhaust Emissions (tons/year)** | **Offsite Vendor Annual DPM Exhaust Emissions (tons/year)** | **Offsite Workers Annual DPM Exhaust Emissions (tons/year)** | |
|---|---|---|---|---|---|
| | Demolistion | 1.100E-04 | 0.000E+00 | 1.000E-05 | |
| | Grading | 1.790E-03 | 0.000E+00 | 1.000E-05 | |
| | Building Construction | 0.000E+00 | 4.700E-04 | 1.300E-04 | |
| | **Total (tons/year)** | **1.900E-03** | **4.700E-04** | **1.500E-04** | **2.520E-03** |
| | **Trip Distance assumed in CalEEMod (mi)** | 20.0 | 7.3 | 10.8 | |
| | **Offsite Project Trip Distance Along Roadway Segment** Project>I5 (mi) | 0.21 | 0.21 | 0.21 | |
| | **Offsite Project Emissions Along Roadway Segment** Project>I-5 (tons/year) | **1.012E-05** | **6.859E-06** | **1.480E-06** | |

| **Offsite Emissions Along Roadway Segment Analyzed** | |
|---|---|
| **Total Offsite Project Exhaust Emissions (tons/year)** | 1.846E-05 |
| **Total Offsite Project Exhaust Emissions (grams/sec)** | **6.467E-06** |

| | |
|---|---|
| **Onsite Exhaust Emissions (tons/year)** | 6.530E-02 |
| **Total Onsite Emissions (tons/year)** | 6.530E-02 |
| **Onsite Exhaust Emissions (g/m2-sec)** | **8.287E-07** |

| | |
|---|---|
| **Total PM@10 Exhaust (tons/year)** | 6.532E-02 |

## Moss Street

**No Mitigation**

**Construction Annual DPM Emissions ( as PM10 Exhaust)**

| **Construction Scheduling** | **2020** | |
|---|---|---|
| | 8 | hours/day |
| | 5 | days/week |
| | 48 | weeks/year |
| | 1920 | hours/year |

**Onsite Construction Area Source Size (m2):** 27603.90

**Onsite Construction PM10 Emissions**

| **2020** | | **Onsite** | **Onsite** | **Onsite DPM** |
|---|---|---|---|---|
| | **Construction Activity** | **Annual DPM** | **Annual DPM** | **Source Exhaust** |
| | | **Exhaust Emissions** | **Exhaust Emissions** | **Emissions** |
| | | **(tons/year)** | **(g/sec)** | **(g/m2-sec)** |
| | Building Construction | 1.134E-01 | 1.490E-02 | 5.397E-07 |
| | Paving | 7.530E-03 | 9.892E-04 | 3.583E-08 |
| | Architectural Coating | 1.660E-03 | 2.181E-04 | 7.900E-09 |
| | **Total** | **1.226E-01** | **1.610E-02** | **5.834E-07** |

**Offsite Construction Vehicle PM10 Emissions**

| **2020** | | **Offsite Hauling** | **Offsite Vendor** | **Offsite Workers** | |
|---|---|---|---|---|---|
| | | **Annual DPM** | **Annual DPM** | **Annual DPM** | |
| | **Construction Activity** | **Exhaust Emissions** | **Exhaust Emissions** | **Exhaust Emissions** | |
| | | **(tons/year)** | **(tons/year)** | **(tons/year)** | |
| | Building Construction | 0.000E+00 | 2.260E-03 | 9.700E-04 | |
| | Paving | 0.000E+00 | 0.000E+00 | 1.000E-05 | |
| | Architectural Coating | 0.000E+00 | 0.000E+00 | 3.000E-05 | |
| | **Total (tons/year)** | **0.000E+00** | **2.260E-03** | **1.010E-03** | **3.270E-03** |
| | Trip Distance assumed in CalEEMod (mi) | 20.0 | 7.3 | 10.8 | |
| | Offsite Project Trip Distance Project>I5 (mi) | 0.21 | 0.21 | 0.21 | |
| | **Offsite Project Emissions** Project>Dry Creek Rd>US101 (tons/year) | **0.000E+00** | **6.597E-05** | **1.993E-05** | |
| | 0 | | | | |

| | |
|---|---|
| **Emissions Along Roadway Segment** | |
| **Offsite Project Exhaust Emissions (tons/year)** | **8.589E-05** |
| **Offsite Project Exhaust Emissions (grams/sec)** | **1.128E-05** |

| | |
|---|---|
| **Onsite Exhaust Emissions (tons/year)** | **1.226E-01** |
| **Total Onsite Emissions (tons/year)** | **1.226E-01** |
| **Onsite Exhaust Emissions (g/m2-sec)** | **5.834E-07** |

| | |
|---|---|
| **Total PM@10 Exhaust (tons/year)** | 1.227E-01 |
| **Total PM10 (tons/year)** | **1.227E-01** |

```
*   AERMOD ( 1808 1): C:\Users\x li\Desktop\34 26.0024 Mos s Street\ constru ction HR
*   AERMET ( 1413 4):
*   MODELING OPTI ONS USED:  Re gDFAULT  CONC ELEV  URB AN
*   PLOT FILE OF ANNUAL VALUES AVERA GED ACROSS 5 YEARS FOR SO URCE GRO
*   FOR A TOTAL OF  38 9 RECEPTORS.
*   FORMA T: (3(1X,F13.5 ),3(1X,F8.2), 2X,A6,2X,A8 ,2X,I8.8, 2X,A8)
*   X Y AVERAGE CONC ZELEV ZHILL ZFLAG AVE
*
```

| | | | | | | |
|---|---|---|---|---|---|---|
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| 491770.82 | 3608296.56 | 83768.45212 | 8.75 | 8.75 | 0 | ANNUAL |
| 491786.69 | 3608300.4 | 169029.1196 | 8.95 | 8.95 | 0 | ANNUAL |
| 491777.07 | 3608270.58 | 37629.84601 | 8.83 | 8.83 | 0 | ANNUAL |
| 491794.39 | 3608275.87 | 71537.09153 | 9.05 | 9.05 | 0 | ANNUAL |
| 491789.88 | 3608254.44 | 30952.91267 | 8.99 | 8.99 | 0 | ANNUAL |
| 491793.88 | 3608239.79 | 22440.86907 | 9.04 | 9.04 | 0 | ANNUAL |
| 491796.54 | 3608225.81 | 16889.37505 | 9.08 | 9.08 | 0 | ANNUAL |
| 491799.2 | 3608213.16 | 13520.08898 | 9.11 | 9.11 | 0 | ANNUAL |
| 491804.53 | 3608198.51 | 11109.97723 | 9.18 | 9.18 | 0 | ANNUAL |
| 491835.16 | 3608317.03 | 396533.5888 | 9.57 | 9.57 | 0 | ANNUAL |
| 491837.82 | 3608303.71 | 271820.1418 | 9.6 | 9.6 | 0 | ANNUAL |
| 491843.81 | 3608287.73 | 172647.9047 | 9.68 | 9.68 | 0 | ANNUAL |
| 491851.14 | 3608274.41 | 123009.1203 | 9.78 | 9.78 | 0 | ANNUAL |
| 491863.07 | 3608247.22 | 66875.79104 | 9.93 | 9.93 | 0 | ANNUAL |
| 491867.68 | 3608231.55 | 48552.36905 | 9.99 | 9.99 | 0 | ANNUAL |
| 491875.05 | 3608218.65 | 39141.4192 | 10.08 | 10.08 | 0 | ANNUAL |
| 491878.74 | 3608195.61 | 25762.88386 | 10.13 | 10.13 | 0 | ANNUAL |
| 491885.19 | 3608177.18 | 19590.4194 | 10.21 | 10.21 | 0 | ANNUAL |
| 491807.78 | 3608183.63 | 8991.73281 | 9.22 | 9.22 | 0 | ANNUAL |
| 491812.39 | 3608167.97 | 7461.70142 | 9.28 | 9.28 | 0 | ANNUAL |
| 491819.76 | 3608146.77 | 6015.00085 | 9.36 | 9.36 | 0 | ANNUAL |
| 491840.03 | 3608155.06 | 8586.85941 | 9.63 | 9.63 | 0 | ANNUAL |
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| 491865.26 | 3608414.36 | 589528.9513 | 9.95 | 9.95 | 0 | ANNUAL |
| 491867.52 | 3608403.04 | 603276.5021 | 9.98 | 9.98 | 0 | ANNUAL |
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| 491890.73 | 3608422.29 | 390103.9893 | 10.28 | 10.28 | 0 | ANNUAL |
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| 491900.35 | 3608397.38 | 386378.606 | 10.4 | 10.4 | 0 | ANNUAL |
| 491903.74 | 3608384.93 | 384883.2425 | 10.45 | 10.45 | 0 | ANNUAL |
| 491912.8 | 3608444.92 | 257671.8221 | 10.56 | 10.56 | 0 | ANNUAL |
| 491917.89 | 3608432.47 | 263360.5712 | 10.63 | 10.63 | 0 | ANNUAL |
| 491921.29 | 3608418.89 | 272794.7326 | 10.67 | 10.67 | 0 | ANNUAL |
| 491926.95 | 3608408.14 | 268804.5308 | 10.74 | 10.74 | 0 | ANNUAL |
| 491930.91 | 3608396.25 | 268530.5384 | 10.79 | 10.79 | 0 | ANNUAL |
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| | | | | | | |
|---|---|---|---|---|---|---|
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| 491998.26 | 3608432.47 | 123421.6186 | 11.66 | 11.66 | 0 | ANNUAL |
| 492002.22 | 3608421.15 | 126246.5201 | 11.71 | 11.71 | 0 | ANNUAL |
| 492012.41 | 3608475.49 | 83621.49564 | 11.84 | 11.84 | 0 | ANNUAL |
| 492015.24 | 3608463.6 | 89538.12932 | 11.87 | 11.87 | 0 | ANNUAL |
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| 492024.29 | 3608441.53 | 96373.73261 | 11.99 | 11.99 | 0 | ANNUAL |
| 492028.25 | 3608428.51 | 100102.7559 | 12.04 | 12.04 | 0 | ANNUAL |
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| 492046.36 | 3608461.34 | 73396.40947 | 12.27 | 12.27 | 0 | ANNUAL |
| 492050.89 | 3608450.58 | 76111.04301 | 12.33 | 12.33 | 0 | ANNUAL |
| 492055.42 | 3608440.4 | 78120.56521 | 12.39 | 12.39 | 0 | ANNUAL |
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| 492069 | 3608481.15 | 55673.63012 | 12.56 | 12.56 | 0 | ANNUAL |
| 492075.23 | 3608469.26 | 58198.33458 | 12.64 | 12.64 | 0 | ANNUAL |
| 492078.06 | 3608457.38 | 61580.37877 | 12.68 | 12.68 | 0 | ANNUAL |
| 492082.59 | 3608446.62 | 63614.62687 | 12.73 | 12.73 | 0 | ANNUAL |
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| 491929.78 | 3608349.84 | 275582.9614 | 10.78 | 10.78 | 0 | ANNUAL |
| 491879.97 | 3608317.02 | 336657.7205 | 10.14 | 10.14 | 0 | ANNUAL |
| 491893.22 | 3608305.33 | 244539.0944 | 10.31 | 10.31 | 0 | ANNUAL |
| 491889.89 | 3608289.35 | 180966.3293 | 10.27 | 10.27 | 0 | ANNUAL |
| 491907.21 | 3608277.37 | 138377.9598 | 10.49 | 10.49 | 0 | ANNUAL |
| 491909.87 | 3608246.74 | 79154.74331 | 10.53 | 10.53 | 0 | ANNUAL |
| 491914.53 | 3608232.76 | 62103.64315 | 10.59 | 10.59 | 0 | ANNUAL |
| 491920.52 | 3608219.44 | 50060.99609 | 10.66 | 10.66 | 0 | ANNUAL |
| 491923.85 | 3608203.46 | 38703.0525 | 10.71 | 10.71 | 0 | ANNUAL |
| 491922.52 | 3608187.48 | 29639.67512 | 10.69 | 10.69 | 0 | ANNUAL |
| 491933.84 | 3608176.16 | 26152.75972 | 10.83 | 10.83 | 0 | ANNUAL |
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| 491945.82 | 3608306.66 | 173169.8634 | 10.99 | 10.99 | 0 | ANNUAL |
| 491948.49 | 3608292.02 | 145064.0697 | 11.02 | 11.02 | 0 | ANNUAL |
| 491954.48 | 3608266.71 | 103224.5835 | 11.1 | 11.1 | 0 | ANNUAL |
| 491965.8 | 3608249.4 | 80108.96105 | 11.24 | 11.24 | 0 | ANNUAL |
| 491959.81 | 3608230.76 | 62686.59318 | 11.17 | 11.17 | 0 | ANNUAL |
| 491973.12 | 3608219.44 | 53627.38352 | 11.34 | 11.34 | 0 | ANNUAL |
| 491965.13 | 3608198.8 | 40196.10183 | 11.23 | 11.23 | 0 | ANNUAL |
| 491987.11 | 3608190.14 | 36888.98902 | 11.52 | 11.52 | 0 | ANNUAL |
| 491975.79 | 3608366.59 | 178873.4984 | 11.37 | 11.37 | 0 | ANNUAL |
| 491980.45 | 3608353.27 | 169371.4764 | 11.43 | 11.43 | 0 | ANNUAL |
| 491988.44 | 3608337.29 | 152041.2074 | 11.53 | 11.53 | 0 | ANNUAL |
| 491991.77 | 3608319.32 | 136973.1522 | 11.57 | 11.57 | 0 | ANNUAL |

| | | | | | | |
|---|---|---|---|---|---|---|
| 492001.09 | 3608294.68 | 110325.6905 | 11.69 | 11.69 | 0 | ANNUAL |
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| 492013.07 | 3608266.05 | 82663.1572 | 11.85 | 11.85 | 0 | ANNUAL |
| 492013.07 | 3608251.4 | 72289.32148 | 11.85 | 11.85 | 0 | ANNUAL |
| 492028.39 | 3608241.41 | 62887.85268 | 12.04 | 12.04 | 0 | ANNUAL |
| 492019.07 | 3608222.77 | 53476.99655 | 11.92 | 11.92 | 0 | ANNUAL |
| 492045.7 | 3608210.78 | 45452.49661 | 12.26 | 12.26 | 0 | ANNUAL |
| 492031.05 | 3608385.23 | 112727.5006 | 12.08 | 12.08 | 0 | ANNUAL |
| 492035.71 | 3608369.92 | 110781.352 | 12.14 | 12.14 | 0 | ANNUAL |
| 492027.06 | 3608353.27 | 117475.215 | 12.02 | 12.02 | 0 | ANNUAL |
| 492046.36 | 3608339.96 | 100944.5021 | 12.27 | 12.27 | 0 | ANNUAL |
| 492040.37 | 3608324.64 | 101087.0358 | 12.2 | 12.2 | 0 | ANNUAL |
| 492057.02 | 3608313.32 | 87983.27103 | 12.41 | 12.41 | 0 | ANNUAL |
| 492055.69 | 3608297.34 | 82983.20924 | 12.39 | 12.39 | 0 | ANNUAL |
| 492059.02 | 3608282.03 | 75410.62761 | 12.43 | 12.43 | 0 | ANNUAL |
| 492069.67 | 3608270.04 | 67070.83152 | 12.57 | 12.57 | 0 | ANNUAL |
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| 492078.32 | 3608241.41 | 53934.29894 | 12.68 | 12.68 | 0 | ANNUAL |
| 492079.66 | 3608226.76 | 48297.83936 | 12.7 | 12.7 | 0 | ANNUAL |
| 492069.51 | 3608395.3 | 84466.80709 | 12.57 | 12.57 | 0 | ANNUAL |
| 492076.17 | 3608375.99 | 83704.79149 | 12.65 | 12.65 | 0 | ANNUAL |
| 492085.49 | 3608364.01 | 79670.90896 | 12.77 | 12.77 | 0 | ANNUAL |
| 492102.14 | 3608406.62 | 66659.39687 | 12.98 | 12.98 | 0 | ANNUAL |
| 492129.44 | 3608410.61 | 56135.98193 | 13.33 | 13.33 | 0 | ANNUAL |
| 492095.48 | 3608352.69 | 75074.61459 | 12.9 | 12.9 | 0 | ANNUAL |
| 492094.15 | 3608336.04 | 74769.00478 | 12.88 | 12.88 | 0 | ANNUAL |
| 492135.43 | 3608348.69 | 59822.0277 | 13.41 | 13.41 | 0 | ANNUAL |
| 492101.47 | 3608312.74 | 68685.98252 | 12.98 | 12.98 | 0 | ANNUAL |
| 492120.78 | 3608244.15 | 47515.56367 | 13.22 | 13.22 | 0 | ANNUAL |
| 492106.8 | 3608297.42 | 63920.32042 | 13.04 | 13.04 | 0 | ANNUAL |
| 492168.06 | 3608256.14 | 42321.71042 | 13.83 | 13.83 | 0 | ANNUAL |
| 491832.47 | 3608106.99 | 4180.27461 | 9.09 | 9.09 | 0 | ANNUAL |
| 491853.78 | 3608116.31 | 5792.22388 | 9.46 | 9.46 | 0 | ANNUAL |
| 491874.42 | 3608123.64 | 7782.89246 | 9.83 | 9.83 | 0 | ANNUAL |
| 491899.72 | 3608128.96 | 10460.46231 | 10.27 | 10.27 | 0 | ANNUAL |
| 491836.47 | 3608093.01 | 3710.77936 | 8.99 | 8.99 | 0 | ANNUAL |
| 491877.09 | 3608106.33 | 6350.14878 | 9.7 | 9.7 | 0 | ANNUAL |
| 491905.05 | 3608118.98 | 9510.661 | 10.3 | 10.3 | 0 | ANNUAL |
| 491907.71 | 3608101.66 | 7734.16153 | 10.25 | 10.25 | 0 | ANNUAL |
| 491883.74 | 3608091.01 | 5569.59303 | 9.69 | 9.69 | 0 | ANNUAL |
| 491848.45 | 3608065.04 | 3079.74148 | 8.84 | 8.84 | 0 | ANNUAL |
| 491853.12 | 3608053.06 | 2845.00857 | 8.8 | 8.8 | 0 | ANNUAL |
| 491873.09 | 3608063.05 | 3716.66742 | 9.19 | 9.19 | 0 | ANNUAL |
| 491909.71 | 3608072.37 | 5512.02895 | 10.14 | 10.14 | 0 | ANNUAL |
| 491921.03 | 3608059.05 | 5157.77157 | 10.35 | 10.35 | 0 | ANNUAL |
| 491925.69 | 3608040.41 | 4365.67123 | 10.34 | 10.34 | 0 | ANNUAL |
| 491856.44 | 3608031.75 | 2391.11038 | 8.85 | 8.85 | 0 | ANNUAL |

| | | | | | | |
|---|---|---|---|---|---|---|
| 491867.1 | 3608010.44 | 2147.01462 | 8.98 | 8.98 | 0 | ANNUAL |
| 491875.09 | 3607976.49 | 1718.34971 | 9.1 | 9.1 | 0 | ANNUAL |
| 491918.37 | 3607991.8 | 2607.50294 | 9.83 | 9.83 | 0 | ANNUAL |
| 491945 | 3608000.46 | 3347.42556 | 10.37 | 10.37 | 0 | ANNUAL |
| 491935.09 | 3608141.53 | 15811.72963 | 10.84 | 10.84 | 0 | ANNUAL |
| 491960.9 | 3608152.59 | 20885.93528 | 11.18 | 11.18 | 0 | ANNUAL |
| 491988.54 | 3608164.57 | 26680.53337 | 11.53 | 11.53 | 0 | ANNUAL |
| 491946.15 | 3608114.81 | 11726.3336 | 10.99 | 10.99 | 0 | ANNUAL |
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| 492048.45 | 3608001.45 | 5605.04851 | 11.71 | 11.71 | 0 | ANNUAL |
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| 492086.23 | 3608187.61 | 34800.01113 | 12.78 | 12.78 | 0 | ANNUAL |
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| 491759.07 | 3607939.71 | 651.23376 | 7.6 | 7.6 | 0 | ANNUAL |
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| 491667.83 | 3608015.28 | 609.90493 | 6.43 | 6.43 | 0 | ANNUAL |
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| 491613.46 | 3607995.92 | 463.12885 | 5.74 | 5.74 | 0 | ANNUAL |
| 491599.63 | 3607983.94 | 423.43448 | 5.56 | 5.56 | 0 | ANNUAL |
| 491623.59 | 3607979.33 | 437.88119 | 5.87 | 5.87 | 0 | ANNUAL |

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| 491579.14 | 3608751.86 | 6533.0195 | 6.43 | 6.43 | 0 | ANNUAL |
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| 491558.73 | 3608797.78 | 4905.57279 | 6.03 | 6.03 | 0 | ANNUAL |
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| 491534.49 | 3608869.21 | 3382.56676 | 5.72 | 5.72 | 0 | ANNUAL |
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| 491621.23 | 3608764.61 | 6439.38955 | 7.11 | 7.11 | 0 | ANNUAL |
| 491651.85 | 3608772.27 | 6214.64483 | 7.64 | 7.64 | 0 | ANNUAL |
| 491635.26 | 3608823.29 | 4517.60807 | 7.02 | 7.02 | 0 | ANNUAL |

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| 491627.61 | 3608838.6 | 4143.13594 | 6.91 | 6.91 | 0 | ANNUAL |
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| 491683.74 | 3608834.77 | 4189.63762 | 8.26 | 8.26 | 0 | ANNUAL |
| 491674.81 | 3608851.36 | 3820.01121 | 8.03 | 8.03 | 0 | ANNUAL |
| 491669.71 | 3608874.32 | 3379.43532 | 7.9 | 7.9 | 0 | ANNUAL |
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| 491720.73 | 3608809.26 | 4893.44238 | 9.1 | 9.1 | 0 | ANNUAL |
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| 491706.7 | 3608855.18 | 3729.43269 | 8.84 | 8.84 | 0 | ANNUAL |
| 491701.6 | 3608871.77 | 3409.51209 | 8.71 | 8.71 | 0 | ANNUAL |
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| 491802.37 | 3608806.71 | 5337.54307 | 10.15 | 10.15 | 0 | ANNUAL |
| 491789.61 | 3608822.02 | 4788.76329 | 9.98 | 9.98 | 0 | ANNUAL |
| 491788.34 | 3608839.87 | 4305.57852 | 9.97 | 9.97 | 0 | ANNUAL |
| 491774.31 | 3608853.91 | 3917.0837 | 9.79 | 9.79 | 0 | ANNUAL |
| 491778.13 | 3608875.59 | 3499.89081 | 9.84 | 9.84 | 0 | ANNUAL |
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| 491835.54 | 3608834.77 | 4650.58333 | 10.57 | 10.57 | 0 | ANNUAL |
| 491829.16 | 3608859.01 | 4039.55505 | 10.49 | 10.49 | 0 | ANNUAL |
| 491824.06 | 3608874.32 | 3704.88695 | 10.42 | 10.42 | 0 | ANNUAL |
| 491824.06 | 3608890.9 | 3400.78112 | 10.42 | 10.42 | 0 | ANNUAL |
| 491820.23 | 3608904.93 | 3159.29467 | 10.37 | 10.37 | 0 | ANNUAL |
| 491818.95 | 3608924.07 | 2877.04023 | 10.36 | 10.36 | 0 | ANNUAL |

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** CONCUNIT ug/ m^3

** DEPUNIT g/m^ 2

A\construc 2-Jan
12:24

UP: AREA

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** CONCUNIT ug/ m^3

** DEPUNIT g/m^ 2

li\Desktop\34 26.0024 Mos s Street\ constru ction HR A\construc 2-Jan 12:24

gDFAULT CONC ELEV URB AN
VALUES AVERA GED ACROSS 5 YEARS FOR SO URCE GRO UP: LINE
9 RECEPTORS.
),3(1X,F8.2), 2X,A6,2X,A8 ,2X,I8.8, 2X,A8)

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| 18.63654 | 8.83 | 8.83 | 0 | ANNUAL | LINE | | 5 |
| 18.30192 | 9.05 | 9.05 | 0 | ANNUAL | LINE | | 5 |
| 11.83867 | 8.99 | 8.99 | 0 | ANNUAL | LINE | | 5 |
| 8.50172 | 9.04 | 9.04 | 0 | ANNUAL | LINE | | 5 |
| 6.29229 | 9.08 | 9.08 | 0 | ANNUAL | LINE | | 5 |
| 4.82803 | 9.11 | 9.11 | 0 | ANNUAL | LINE | | 5 |
| 3.60052 | 9.18 | 9.18 | 0 | ANNUAL | LINE | | 5 |
| 17.47807 | 9.57 | 9.57 | 0 | ANNUAL | LINE | | 5 |
| 16.36569 | 9.6 | 9.6 | 0 | ANNUAL | LINE | | 5 |
| 13.10984 | 9.68 | 9.68 | 0 | ANNUAL | LINE | | 5 |
| 10.45869 | 9.78 | 9.78 | 0 | ANNUAL | LINE | | 5 |
| 6.89013 | 9.93 | 9.93 | 0 | ANNUAL | LINE | | 5 |
| 5.50992 | 9.99 | 9.99 | 0 | ANNUAL | LINE | | 5 |
| 4.51933 | 10.08 | 10.08 | 0 | ANNUAL | LINE | | 5 |
| 3.29514 | 10.13 | 10.13 | 0 | ANNUAL | LINE | | 5 |
| 2.54421 | 10.21 | 10.21 | 0 | ANNUAL | LINE | | 5 |
| 2.70752 | 9.22 | 9.22 | 0 | ANNUAL | LINE | | 5 |
| 2.04387 | 9.28 | 9.28 | 0 | ANNUAL | LINE | | 5 |
| 1.44327 | 9.36 | 9.36 | 0 | ANNUAL | LINE | | 5 |
| 1.76573 | 9.63 | 9.63 | 0 | ANNUAL | LINE | | 5 |
| 2.33746 | 10 | 10 | 0 | ANNUAL | LINE | | 5 |
| 2.83789 | 9.95 | 9.95 | 0 | ANNUAL | LINE | | 5 |
| 3.15933 | 9.98 | 9.98 | 0 | ANNUAL | LINE | | 5 |
| 3.45016 | 10.04 | 10.04 | 0 | ANNUAL | LINE | | 5 |
| 4.03201 | 10.08 | 10.08 | 0 | ANNUAL | LINE | | 5 |
| 2.05662 | 10.23 | 10.23 | 0 | ANNUAL | LINE | | 5 |
| 2.21408 | 10.28 | 10.28 | 0 | ANNUAL | LINE | | 5 |
| 2.4267 | 10.35 | 10.35 | 0 | ANNUAL | LINE | | 5 |
| 2.6929 | 10.4 | 10.4 | 0 | ANNUAL | LINE | | 5 |
| 3.01035 | 10.45 | 10.45 | 0 | ANNUAL | LINE | | 5 |
| 1.56146 | 10.56 | 10.56 | 0 | ANNUAL | LINE | | 5 |
| 1.71251 | 10.63 | 10.63 | 0 | ANNUAL | LINE | | 5 |
| 1.91468 | 10.67 | 10.67 | 0 | ANNUAL | LINE | | 5 |
| 2.05708 | 10.74 | 10.74 | 0 | ANNUAL | LINE | | 5 |
| 2.25717 | 10.79 | 10.79 | 0 | ANNUAL | LINE | | 5 |
| 1.5442 | 11.05 | 11.05 | 0 | ANNUAL | LINE | | 5 |

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| 1.64752 | 11.09 | 11.09 | 0 | ANNUAL | LINE | 5 |
| 1.7769 | 11.16 | 11.16 | 0 | ANNUAL | LINE | 5 |
| 0.91756 | 11.47 | 11.47 | 0 | ANNUAL | LINE | 5 |
| 1.01343 | 11.52 | 11.52 | 0 | ANNUAL | LINE | 5 |
| 1.08708 | 11.59 | 11.59 | 0 | ANNUAL | LINE | 5 |
| 1.15656 | 11.66 | 11.66 | 0 | ANNUAL | LINE | 5 |
| 1.24684 | 11.71 | 11.71 | 0 | ANNUAL | LINE | 5 |
| 0.77086 | 11.84 | 11.84 | 0 | ANNUAL | LINE | 5 |
| 0.83799 | 11.87 | 11.87 | 0 | ANNUAL | LINE | 5 |
| 0.90443 | 11.94 | 11.94 | 0 | ANNUAL | LINE | 5 |
| 0.96222 | 11.99 | 11.99 | 0 | ANNUAL | LINE | 5 |
| 1.04776 | 12.04 | 12.04 | 0 | ANNUAL | LINE | 5 |
| 0.64922 | 12.15 | 12.15 | 0 | ANNUAL | LINE | 5 |
| 0.70953 | 12.22 | 12.22 | 0 | ANNUAL | LINE | 5 |
| 0.75843 | 12.27 | 12.27 | 0 | ANNUAL | LINE | 5 |
| 0.80837 | 12.33 | 12.33 | 0 | ANNUAL | LINE | 5 |
| 0.85687 | 12.39 | 12.39 | 0 | ANNUAL | LINE | 5 |
| 0.56015 | 12.52 | 12.52 | 0 | ANNUAL | LINE | 5 |
| 0.60579 | 12.56 | 12.56 | 0 | ANNUAL | LINE | 5 |
| 0.646 | 12.64 | 12.64 | 0 | ANNUAL | LINE | 5 |
| 0.69626 | 12.68 | 12.68 | 0 | ANNUAL | LINE | 5 |
| 0.73928 | 12.73 | 12.73 | 0 | ANNUAL | LINE | 5 |
| 7.44433 | 10.06 | 10.06 | 0 | ANNUAL | LINE | 5 |
| 3.59829 | 10.78 | 10.78 | 0 | ANNUAL | LINE | 5 |
| 7.99283 | 10.14 | 10.14 | 0 | ANNUAL | LINE | 5 |
| 7.09578 | 10.31 | 10.31 | 0 | ANNUAL | LINE | 5 |
| 7.41382 | 10.27 | 10.27 | 0 | ANNUAL | LINE | 5 |
| 6.01035 | 10.49 | 10.49 | 0 | ANNUAL | LINE | 5 |
| 4.98056 | 10.53 | 10.53 | 0 | ANNUAL | LINE | 5 |
| 4.3267 | 10.59 | 10.59 | 0 | ANNUAL | LINE | 5 |
| 3.72852 | 10.66 | 10.66 | 0 | ANNUAL | LINE | 5 |
| 3.15801 | 10.71 | 10.71 | 0 | ANNUAL | LINE | 5 |
| 2.68938 | 10.69 | 10.69 | 0 | ANNUAL | LINE | 5 |
| 2.31799 | 10.83 | 10.83 | 0 | ANNUAL | LINE | 5 |
| 3.92068 | 10.87 | 10.87 | 0 | ANNUAL | LINE | 5 |
| 4.13765 | 10.99 | 10.99 | 0 | ANNUAL | LINE | 5 |
| 4.1747 | 11.02 | 11.02 | 0 | ANNUAL | LINE | 5 |
| 3.92112 | 11.1 | 11.1 | 0 | ANNUAL | LINE | 5 |
| 3.44176 | 11.24 | 11.24 | 0 | ANNUAL | LINE | 5 |
| 3.2761 | 11.17 | 11.17 | 0 | ANNUAL | LINE | 5 |
| 2.85414 | 11.34 | 11.34 | 0 | ANNUAL | LINE | 5 |
| 2.57399 | 11.23 | 11.23 | 0 | ANNUAL | LINE | 5 |
| 2.21423 | 11.52 | 11.52 | 0 | ANNUAL | LINE | 5 |
| 2.25235 | 11.37 | 11.37 | 0 | ANNUAL | LINE | 5 |
| 2.4227 | 11.43 | 11.43 | 0 | ANNUAL | LINE | 5 |
| 2.55377 | 11.53 | 11.53 | 0 | ANNUAL | LINE | 5 |
| 2.73973 | 11.57 | 11.57 | 0 | ANNUAL | LINE | 5 |

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| 2.77387 | 11.69 | 11.69 | 0 | ANNUAL | LINE | 5 |
| 2.72184 | 11.76 | 11.76 | 0 | ANNUAL | LINE | 5 |
| 2.61058 | 11.85 | 11.85 | 0 | ANNUAL | LINE | 5 |
| 2.56586 | 11.85 | 11.85 | 0 | ANNUAL | LINE | 5 |
| 2.30116 | 12.04 | 12.04 | 0 | ANNUAL | LINE | 5 |
| 2.28757 | 11.92 | 11.92 | 0 | ANNUAL | LINE | 5 |
| 1.92083 | 12.26 | 12.26 | 0 | ANNUAL | LINE | 5 |
| 1.43445 | 12.08 | 12.08 | 0 | ANNUAL | LINE | 5 |
| 1.55699 | 12.14 | 12.14 | 0 | ANNUAL | LINE | 5 |
| 1.81736 | 12.02 | 12.02 | 0 | ANNUAL | LINE | 5 |
| 1.75203 | 12.27 | 12.27 | 0 | ANNUAL | LINE | 5 |
| 1.94963 | 12.2 | 12.2 | 0 | ANNUAL | LINE | 5 |
| 1.84423 | 12.41 | 12.41 | 0 | ANNUAL | LINE | 5 |
| 1.94539 | 12.39 | 12.39 | 0 | ANNUAL | LINE | 5 |
| 1.96082 | 12.43 | 12.43 | 0 | ANNUAL | LINE | 5 |
| 1.86581 | 12.57 | 12.57 | 0 | ANNUAL | LINE | 5 |
| 1.94735 | 12.47 | 12.47 | 0 | ANNUAL | LINE | 5 |
| 1.76457 | 12.68 | 12.68 | 0 | ANNUAL | LINE | 5 |
| 1.71233 | 12.7 | 12.7 | 0 | ANNUAL | LINE | 5 |
| 1.11315 | 12.57 | 12.57 | 0 | ANNUAL | LINE | 5 |
| 1.22143 | 12.65 | 12.65 | 0 | ANNUAL | LINE | 5 |
| 1.25216 | 12.77 | 12.77 | 0 | ANNUAL | LINE | 5 |
| 0.89809 | 12.98 | 12.98 | 0 | ANNUAL | LINE | 5 |
| 0.7854 | 13.33 | 13.33 | 0 | ANNUAL | LINE | 5 |
| 1.26584 | 12.9 | 12.9 | 0 | ANNUAL | LINE | 5 |
| 1.37757 | 12.88 | 12.88 | 0 | ANNUAL | LINE | 5 |
| 1.06697 | 13.41 | 13.41 | 0 | ANNUAL | LINE | 5 |
| 1.44695 | 12.98 | 12.98 | 0 | ANNUAL | LINE | 5 |
| 1.43698 | 13.22 | 13.22 | 0 | ANNUAL | LINE | 5 |
| 1.46755 | 13.04 | 13.04 | 0 | ANNUAL | LINE | 5 |
| 1.15696 | 13.83 | 13.83 | 0 | ANNUAL | LINE | 5 |
| 0.82048 | 9.09 | 9.09 | 0 | ANNUAL | LINE | 5 |
| 1.01929 | 9.46 | 9.46 | 0 | ANNUAL | LINE | 5 |
| 1.19844 | 9.83 | 9.83 | 0 | ANNUAL | LINE | 5 |
| 1.34443 | 10.27 | 10.27 | 0 | ANNUAL | LINE | 5 |
| 0.68642 | 8.99 | 8.99 | 0 | ANNUAL | LINE | 5 |
| 0.95334 | 9.7 | 9.7 | 0 | ANNUAL | LINE | 5 |
| 1.19114 | 10.3 | 10.3 | 0 | ANNUAL | LINE | 5 |
| 0.96262 | 10.25 | 10.25 | 0 | ANNUAL | LINE | 5 |
| 0.79462 | 9.69 | 9.69 | 0 | ANNUAL | LINE | 5 |
| 0.50327 | 8.84 | 8.84 | 0 | ANNUAL | LINE | 5 |
| 0.4441 | 8.8 | 8.8 | 0 | ANNUAL | LINE | 5 |
| 0.54139 | 9.19 | 9.19 | 0 | ANNUAL | LINE | 5 |
| 0.6769 | 10.14 | 10.14 | 0 | ANNUAL | LINE | 5 |
| 0.59639 | 10.35 | 10.35 | 0 | ANNUAL | LINE | 5 |
| 0.49036 | 10.34 | 10.34 | 0 | ANNUAL | LINE | 5 |
| 0.35189 | 8.85 | 8.85 | 0 | ANNUAL | LINE | 5 |

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|---|---|---|---|---|---|---|
| 0.292 | 8.98 | 8.98 | 0 | ANNUAL | LINE | 5 |
| 0.21562 | 9.1 | 9.1 | 0 | ANNUAL | LINE | 5 |
| 0.28963 | 9.83 | 9.83 | 0 | ANNUAL | LINE | 5 |
| 0.34252 | 10.37 | 10.37 | 0 | ANNUAL | LINE | 5 |
| 1.58326 | 10.84 | 10.84 | 0 | ANNUAL | LINE | 5 |
| 1.72935 | 11.18 | 11.18 | 0 | ANNUAL | LINE | 5 |
| 1.81216 | 11.53 | 11.53 | 0 | ANNUAL | LINE | 5 |
| 1.17209 | 10.99 | 10.99 | 0 | ANNUAL | LINE | 5 |
| 1.33436 | 11.53 | 11.53 | 0 | ANNUAL | LINE | 5 |
| 1.06121 | 11.91 | 11.91 | 0 | ANNUAL | LINE | 5 |
| 0.88806 | 11.11 | 11.11 | 0 | ANNUAL | LINE | 5 |
| 0.65486 | 11.22 | 11.22 | 0 | ANNUAL | LINE | 5 |
| 0.67462 | 11.49 | 11.49 | 0 | ANNUAL | LINE | 5 |
| 0.74218 | 12.09 | 12.09 | 0 | ANNUAL | LINE | 5 |
| 0.58284 | 11.78 | 11.78 | 0 | ANNUAL | LINE | 5 |
| 0.48467 | 11.08 | 11.08 | 0 | ANNUAL | LINE | 5 |
| 0.40747 | 10.96 | 10.96 | 0 | ANNUAL | LINE | 5 |
| 0.49104 | 11.84 | 11.84 | 0 | ANNUAL | LINE | 5 |
| 0.42857 | 11.71 | 11.71 | 0 | ANNUAL | LINE | 5 |
| 0.35545 | 10.96 | 10.96 | 0 | ANNUAL | LINE | 5 |
| 1.63629 | 12.17 | 12.17 | 0 | ANNUAL | LINE | 5 |
| 1.43556 | 12.29 | 12.29 | 0 | ANNUAL | LINE | 5 |
| 1.48031 | 12.78 | 12.78 | 0 | ANNUAL | LINE | 5 |
| 1.33609 | 12.9 | 12.9 | 0 | ANNUAL | LINE | 5 |
| 1.13753 | 12.37 | 12.37 | 0 | ANNUAL | LINE | 5 |
| 1.13313 | 13.08 | 13.08 | 0 | ANNUAL | LINE | 5 |
| 0.95426 | 12.43 | 12.43 | 0 | ANNUAL | LINE | 5 |
| 0.9276 | 13.26 | 13.26 | 0 | ANNUAL | LINE | 5 |
| 0.81189 | 13.41 | 13.41 | 0 | ANNUAL | LINE | 5 |
| 0.72072 | 12.65 | 12.65 | 0 | ANNUAL | LINE | 5 |
| 0.55127 | 12.49 | 12.49 | 0 | ANNUAL | LINE | 5 |
| 0.6806 | 13.47 | 13.47 | 0 | ANNUAL | LINE | 5 |
| 1.27558 | 13.47 | 13.47 | 0 | ANNUAL | LINE | 5 |
| 1.08028 | 14.03 | 14.03 | 0 | ANNUAL | LINE | 5 |
| 1.2037 | 13.51 | 13.51 | 0 | ANNUAL | LINE | 5 |
| 1.01145 | 14.17 | 14.17 | 0 | ANNUAL | LINE | 5 |
| 0.94695 | 14.28 | 14.28 | 0 | ANNUAL | LINE | 5 |
| 1.03352 | 13.62 | 13.62 | 0 | ANNUAL | LINE | 5 |
| 0.91938 | 14.21 | 14.21 | 0 | ANNUAL | LINE | 5 |
| 0.93915 | 13.71 | 13.71 | 0 | ANNUAL | LINE | 5 |
| 0.86053 | 13.79 | 13.79 | 0 | ANNUAL | LINE | 5 |
| 0.80792 | 14.49 | 14.49 | 0 | ANNUAL | LINE | 5 |
| 0.73113 | 14.54 | 14.54 | 0 | ANNUAL | LINE | 5 |
| 0.67306 | 14.65 | 14.65 | 0 | ANNUAL | LINE | 5 |
| 0.76825 | 13.86 | 13.86 | 0 | ANNUAL | LINE | 5 |
| 0.68315 | 13.99 | 13.99 | 0 | ANNUAL | LINE | 5 |
| 0.60414 | 14.03 | 14.03 | 0 | ANNUAL | LINE | 5 |

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| 0.60903 | 14.48 | 14.48 | 0 | ANNUAL | LINE | 5 |
| 0.84615 | 14.83 | 14.83 | 0 | ANNUAL | LINE | 5 |
| 0.86205 | 14.74 | 14.74 | 0 | ANNUAL | LINE | 5 |
| 0.84196 | 14.77 | 14.77 | 0 | ANNUAL | LINE | 5 |
| 0.808 | 14.83 | 14.83 | 0 | ANNUAL | LINE | 5 |
| 0.76159 | 14.98 | 14.98 | 0 | ANNUAL | LINE | 5 |
| 0.72336 | 15.02 | 15.02 | 0 | ANNUAL | LINE | 5 |
| 0.67343 | 15.09 | 15.09 | 0 | ANNUAL | LINE | 5 |
| 0.63341 | 15.16 | 15.16 | 0 | ANNUAL | LINE | 5 |
| 0.59758 | 15.24 | 15.24 | 0 | ANNUAL | LINE | 5 |
| 0.56237 | 15.33 | 15.33 | 0 | ANNUAL | LINE | 5 |
| 0.95379 | 7.66 | 7.66 | 0 | ANNUAL | LINE | 5 |
| 0.68053 | 7.68 | 7.68 | 0 | ANNUAL | LINE | 5 |
| 0.57313 | 7.59 | 7.59 | 0 | ANNUAL | LINE | 5 |
| 0.49193 | 7.49 | 7.49 | 0 | ANNUAL | LINE | 5 |
| 0.42458 | 7.39 | 7.39 | 0 | ANNUAL | LINE | 5 |
| 0.37342 | 7.3 | 7.3 | 0 | ANNUAL | LINE | 5 |
| 0.32522 | 7.19 | 7.19 | 0 | ANNUAL | LINE | 5 |
| 0.30182 | 7.18 | 7.18 | 0 | ANNUAL | LINE | 5 |
| 0.26913 | 7.07 | 7.07 | 0 | ANNUAL | LINE | 5 |
| 0.24322 | 7.11 | 7.11 | 0 | ANNUAL | LINE | 5 |
| 0.18861 | 7.26 | 7.26 | 0 | ANNUAL | LINE | 5 |
| 0.17194 | 7.29 | 7.29 | 0 | ANNUAL | LINE | 5 |
| 0.15735 | 7.29 | 7.29 | 0 | ANNUAL | LINE | 5 |
| 0.14774 | 7.41 | 7.41 | 0 | ANNUAL | LINE | 5 |
| 0.13494 | 7.45 | 7.45 | 0 | ANNUAL | LINE | 5 |
| 0.12526 | 7.55 | 7.55 | 0 | ANNUAL | LINE | 5 |
| 0.11385 | 7.6 | 7.6 | 0 | ANNUAL | LINE | 5 |
| 0.61405 | 7.03 | 7.03 | 0 | ANNUAL | LINE | 5 |
| 0.50736 | 6.8 | 6.8 | 0 | ANNUAL | LINE | 5 |
| 0.42946 | 6.49 | 6.49 | 0 | ANNUAL | LINE | 5 |
| 0.35221 | 6.14 | 6.14 | 0 | ANNUAL | LINE | 5 |
| 0.32156 | 5.95 | 5.95 | 0 | ANNUAL | LINE | 5 |
| 0.2718 | 5.63 | 5.63 | 0 | ANNUAL | LINE | 5 |
| 0.4194 | 6.94 | 6.94 | 0 | ANNUAL | LINE | 5 |
| 0.5141 | 7.21 | 7.21 | 0 | ANNUAL | LINE | 5 |
| 0.36746 | 6.85 | 6.85 | 0 | ANNUAL | LINE | 5 |
| 0.32912 | 6.79 | 6.79 | 0 | ANNUAL | LINE | 5 |
| 0.3411 | 6.93 | 6.93 | 0 | ANNUAL | LINE | 5 |
| 0.31991 | 6.93 | 6.93 | 0 | ANNUAL | LINE | 5 |
| 0.28186 | 6.84 | 6.84 | 0 | ANNUAL | LINE | 5 |
| 0.28068 | 6.62 | 6.62 | 0 | ANNUAL | LINE | 5 |
| 0.27 | 6.65 | 6.65 | 0 | ANNUAL | LINE | 5 |
| 0.23991 | 6.56 | 6.56 | 0 | ANNUAL | LINE | 5 |
| 0.22037 | 6.57 | 6.57 | 0 | ANNUAL | LINE | 5 |
| 0.23929 | 6.73 | 6.73 | 0 | ANNUAL | LINE | 5 |
| 0.20522 | 6.79 | 6.79 | 0 | ANNUAL | LINE | 5 |

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| 0.18973 | 6.87 | 6.87 | 0 | ANNUAL | LINE | 5 |
| 0.38106 | 6.58 | 6.58 | 0 | ANNUAL | LINE | 5 |
| 0.3492 | 6.41 | 6.41 | 0 | ANNUAL | LINE | 5 |
| 0.31999 | 6.22 | 6.22 | 0 | ANNUAL | LINE | 5 |
| 0.28739 | 5.99 | 5.99 | 0 | ANNUAL | LINE | 5 |
| 0.27053 | 5.86 | 5.86 | 0 | ANNUAL | LINE | 5 |
| 0.24793 | 5.64 | 5.64 | 0 | ANNUAL | LINE | 5 |
| 0.21986 | 5.38 | 5.38 | 0 | ANNUAL | LINE | 5 |
| 0.20076 | 5.31 | 5.31 | 0 | ANNUAL | LINE | 5 |
| 0.21644 | 5.5 | 5.5 | 0 | ANNUAL | LINE | 5 |
| 0.23709 | 5.73 | 5.73 | 0 | ANNUAL | LINE | 5 |
| 0.26452 | 5.97 | 5.97 | 0 | ANNUAL | LINE | 5 |
| 0.28675 | 6.19 | 6.19 | 0 | ANNUAL | LINE | 5 |
| 0.31637 | 6.41 | 6.41 | 0 | ANNUAL | LINE | 5 |
| 0.2525 | 6.19 | 6.19 | 0 | ANNUAL | LINE | 5 |
| 0.22558 | 5.9 | 5.9 | 0 | ANNUAL | LINE | 5 |
| 0.22214 | 6.08 | 6.08 | 0 | ANNUAL | LINE | 5 |
| 0.23548 | 6.27 | 6.27 | 0 | ANNUAL | LINE | 5 |
| 0.16037 | 5.16 | 5.16 | 0 | ANNUAL | LINE | 5 |
| 0.14559 | 5.01 | 5.01 | 0 | ANNUAL | LINE | 5 |
| 0.14698 | 5.22 | 5.22 | 0 | ANNUAL | LINE | 5 |
| 0.17577 | 5.49 | 5.49 | 0 | ANNUAL | LINE | 5 |
| 0.15714 | 5.43 | 5.43 | 0 | ANNUAL | LINE | 5 |
| 0.17041 | 5.68 | 5.68 | 0 | ANNUAL | LINE | 5 |
| 0.15465 | 5.73 | 5.73 | 0 | ANNUAL | LINE | 5 |
| 0.17932 | 5.89 | 5.89 | 0 | ANNUAL | LINE | 5 |
| 0.16872 | 6.03 | 6.03 | 0 | ANNUAL | LINE | 5 |
| 0.17328 | 6.26 | 6.26 | 0 | ANNUAL | LINE | 5 |
| 0.14986 | 6.13 | 6.13 | 0 | ANNUAL | LINE | 5 |
| 0.16255 | 6.43 | 6.43 | 0 | ANNUAL | LINE | 5 |
| 0.1456 | 6.7 | 6.7 | 0 | ANNUAL | LINE | 5 |
| 0.12538 | 6.61 | 6.61 | 0 | ANNUAL | LINE | 5 |
| 0.1415 | 6.91 | 6.91 | 0 | ANNUAL | LINE | 5 |
| 0.12953 | 7.02 | 7.02 | 0 | ANNUAL | LINE | 5 |
| 0.12042 | 7.18 | 7.18 | 0 | ANNUAL | LINE | 5 |
| 0.11043 | 6.99 | 6.99 | 0 | ANNUAL | LINE | 5 |
| 0.10966 | 7.22 | 7.22 | 0 | ANNUAL | LINE | 5 |
| 0.10089 | 7.04 | 7.04 | 0 | ANNUAL | LINE | 5 |
| 0.09521 | 7.17 | 7.17 | 0 | ANNUAL | LINE | 5 |
| 0.10112 | 7.33 | 7.33 | 0 | ANNUAL | LINE | 5 |
| 0.08948 | 7.3 | 7.3 | 0 | ANNUAL | LINE | 5 |
| 0.12114 | 5.03 | 5.03 | 0 | ANNUAL | LINE | 5 |
| 0.11796 | 5.3 | 5.3 | 0 | ANNUAL | LINE | 5 |
| 0.1266 | 5.51 | 5.51 | 0 | ANNUAL | LINE | 5 |
| 0.12513 | 5.74 | 5.74 | 0 | ANNUAL | LINE | 5 |
| 0.11194 | 5.56 | 5.56 | 0 | ANNUAL | LINE | 5 |
| 0.11409 | 5.87 | 5.87 | 0 | ANNUAL | LINE | 5 |

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|---|---|---|---|---|---|---|
| 0.12094 | 6.08 | 6.08 | 0 | ANNUAL | LINE | 5 |
| 0.11369 | 6.34 | 6.34 | 0 | ANNUAL | LINE | 5 |
| 0.10173 | 6.24 | 6.24 | 0 | ANNUAL | LINE | 5 |
| 0.10432 | 6.49 | 6.49 | 0 | ANNUAL | LINE | 5 |
| 0.09695 | 6.52 | 6.52 | 0 | ANNUAL | LINE | 5 |
| 0.0897 | 6.27 | 6.27 | 0 | ANNUAL | LINE | 5 |
| 0.08923 | 6.67 | 6.67 | 0 | ANNUAL | LINE | 5 |
| 0.08368 | 6.42 | 6.42 | 0 | ANNUAL | LINE | 5 |
| 0.078 | 6.37 | 6.37 | 0 | ANNUAL | LINE | 5 |
| 0.08134 | 6.86 | 6.86 | 0 | ANNUAL | LINE | 5 |
| 0.09104 | 5.08 | 5.08 | 0 | ANNUAL | LINE | 5 |
| 0.09175 | 5.24 | 5.24 | 0 | ANNUAL | LINE | 5 |
| 0.08283 | 5.01 | 5.01 | 0 | ANNUAL | LINE | 5 |
| 0.09601 | 5.53 | 5.53 | 0 | ANNUAL | LINE | 5 |
| 0.08613 | 5.25 | 5.25 | 0 | ANNUAL | LINE | 5 |
| 0.08299 | 5.3 | 5.3 | 0 | ANNUAL | LINE | 5 |
| 0.09183 | 5.59 | 5.59 | 0 | ANNUAL | LINE | 5 |
| 0.08695 | 5.7 | 5.7 | 0 | ANNUAL | LINE | 5 |
| 0.07785 | 5.38 | 5.38 | 0 | ANNUAL | LINE | 5 |
| 0.08111 | 5.72 | 5.72 | 0 | ANNUAL | LINE | 5 |
| 0.07132 | 5.46 | 5.46 | 0 | ANNUAL | LINE | 5 |
| 0.07669 | 5.87 | 5.87 | 0 | ANNUAL | LINE | 5 |
| 0.07005 | 5.9 | 5.9 | 0 | ANNUAL | LINE | 5 |
| 0.06677 | 5.45 | 5.45 | 0 | ANNUAL | LINE | 5 |
| 0.07232 | 4.67 | 4.67 | 0 | ANNUAL | LINE | 5 |
| 0.07149 | 4.86 | 4.86 | 0 | ANNUAL | LINE | 5 |
| 0.06604 | 4.57 | 4.57 | 0 | ANNUAL | LINE | 5 |
| 0.06721 | 4.92 | 4.92 | 0 | ANNUAL | LINE | 5 |
| 0.06106 | 4.7 | 4.7 | 0 | ANNUAL | LINE | 5 |
| 0.06223 | 4.91 | 4.91 | 0 | ANNUAL | LINE | 5 |
| 0.20211 | 9.3 | 9.3 | 0 | ANNUAL | LINE | 5 |
| 0.26865 | 10.09 | 10.09 | 0 | ANNUAL | LINE | 5 |
| 0.25537 | 6.74 | 6.74 | 0 | ANNUAL | LINE | 5 |
| 0.22345 | 6.49 | 6.49 | 0 | ANNUAL | LINE | 5 |
| 0.19896 | 6.43 | 6.43 | 0 | ANNUAL | LINE | 5 |
| 0.17032 | 6.11 | 6.11 | 0 | ANNUAL | LINE | 5 |
| 0.1536 | 6.03 | 6.03 | 0 | ANNUAL | LINE | 5 |
| 0.13396 | 5.87 | 5.87 | 0 | ANNUAL | LINE | 5 |
| 0.12516 | 5.83 | 5.83 | 0 | ANNUAL | LINE | 5 |
| 0.10868 | 5.72 | 5.72 | 0 | ANNUAL | LINE | 5 |
| 0.23968 | 7.77 | 7.77 | 0 | ANNUAL | LINE | 5 |
| 0.23355 | 8.22 | 8.22 | 0 | ANNUAL | LINE | 5 |
| 0.19926 | 7.82 | 7.82 | 0 | ANNUAL | LINE | 5 |
| 0.20756 | 7.38 | 7.38 | 0 | ANNUAL | LINE | 5 |
| 0.18774 | 7.11 | 7.11 | 0 | ANNUAL | LINE | 5 |
| 0.1824 | 7.64 | 7.64 | 0 | ANNUAL | LINE | 5 |
| 0.13801 | 7.02 | 7.02 | 0 | ANNUAL | LINE | 5 |

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|---|---|---|---|---|---|---|
| 0.14544 | 6.67 | 6.67 | 0 | ANNUAL | LINE | 5 |
| 0.13187 | 6.6 | 6.6 | 0 | ANNUAL | LINE | 5 |
| 0.12751 | 6.91 | 6.91 | 0 | ANNUAL | LINE | 5 |
| 0.11155 | 6.84 | 6.84 | 0 | ANNUAL | LINE | 5 |
| 0.11431 | 6.44 | 6.44 | 0 | ANNUAL | LINE | 5 |
| 0.10597 | 6.39 | 6.39 | 0 | ANNUAL | LINE | 5 |
| 0.1028 | 6.78 | 6.78 | 0 | ANNUAL | LINE | 5 |
| 0.20753 | 8.91 | 8.91 | 0 | ANNUAL | LINE | 5 |
| 0.18982 | 8.78 | 8.78 | 0 | ANNUAL | LINE | 5 |
| 0.16695 | 8.59 | 8.59 | 0 | ANNUAL | LINE | 5 |
| 0.15457 | 8.39 | 8.39 | 0 | ANNUAL | LINE | 5 |
| 0.13298 | 8.26 | 8.26 | 0 | ANNUAL | LINE | 5 |
| 0.12236 | 8.03 | 8.03 | 0 | ANNUAL | LINE | 5 |
| 0.10986 | 7.9 | 7.9 | 0 | ANNUAL | LINE | 5 |
| 0.09656 | 7.83 | 7.83 | 0 | ANNUAL | LINE | 5 |
| 0.20192 | 9.36 | 9.36 | 0 | ANNUAL | LINE | 5 |
| 0.18683 | 9.27 | 9.27 | 0 | ANNUAL | LINE | 5 |
| 0.16283 | 9.18 | 9.18 | 0 | ANNUAL | LINE | 5 |
| 0.15316 | 9.1 | 9.1 | 0 | ANNUAL | LINE | 5 |
| 0.13521 | 8.97 | 8.97 | 0 | ANNUAL | LINE | 5 |
| 0.12169 | 8.84 | 8.84 | 0 | ANNUAL | LINE | 5 |
| 0.11253 | 8.71 | 8.71 | 0 | ANNUAL | LINE | 5 |
| 0.09935 | 8.65 | 8.65 | 0 | ANNUAL | LINE | 5 |
| 0.18625 | 9.84 | 9.84 | 0 | ANNUAL | LINE | 5 |
| 0.16812 | 9.77 | 9.77 | 0 | ANNUAL | LINE | 5 |
| 0.15217 | 9.64 | 9.64 | 0 | ANNUAL | LINE | 5 |
| 0.14044 | 9.61 | 9.61 | 0 | ANNUAL | LINE | 5 |
| 0.12606 | 9.54 | 9.54 | 0 | ANNUAL | LINE | 5 |
| 0.11604 | 9.44 | 9.44 | 0 | ANNUAL | LINE | 5 |
| 0.10809 | 9.33 | 9.33 | 0 | ANNUAL | LINE | 5 |
| 0.1001 | 9.33 | 9.33 | 0 | ANNUAL | LINE | 5 |
| 0.17405 | 10.18 | 10.18 | 0 | ANNUAL | LINE | 5 |
| 0.15414 | 10.15 | 10.15 | 0 | ANNUAL | LINE | 5 |
| 0.14421 | 9.98 | 9.98 | 0 | ANNUAL | LINE | 5 |
| 0.13287 | 9.97 | 9.97 | 0 | ANNUAL | LINE | 5 |
| 0.12485 | 9.79 | 9.79 | 0 | ANNUAL | LINE | 5 |
| 0.1135 | 9.84 | 9.84 | 0 | ANNUAL | LINE | 5 |
| 0.10568 | 9.77 | 9.77 | 0 | ANNUAL | LINE | 5 |
| 0.09553 | 9.74 | 9.74 | 0 | ANNUAL | LINE | 5 |
| 0.15787 | 10.73 | 10.73 | 0 | ANNUAL | LINE | 5 |
| 0.14361 | 10.7 | 10.7 | 0 | ANNUAL | LINE | 5 |
| 0.13316 | 10.57 | 10.57 | 0 | ANNUAL | LINE | 5 |
| 0.12055 | 10.49 | 10.49 | 0 | ANNUAL | LINE | 5 |
| 0.11337 | 10.42 | 10.42 | 0 | ANNUAL | LINE | 5 |
| 0.10597 | 10.42 | 10.42 | 0 | ANNUAL | LINE | 5 |
| 0.1003 | 10.37 | 10.37 | 0 | ANNUAL | LINE | 5 |
| 0.09309 | 10.36 | 10.36 | 0 | ANNUAL | LINE | 5 |

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|---|---|---|---|---|---|---|
| 0.0874 | 10.34 | 10.34 | 0 | ANNUAL | LINE | 5 |
| 0.13605 | 11.06 | 11.06 | 0 | ANNUAL | LINE | 5 |
| 0.12605 | 10.95 | 10.95 | 0 | ANNUAL | LINE | 5 |
| 0.1159 | 10.88 | 10.88 | 0 | ANNUAL | LINE | 5 |
| 0.1099 | 10.83 | 10.83 | 0 | ANNUAL | LINE | 5 |
| 0.10134 | 10.75 | 10.75 | 0 | ANNUAL | LINE | 5 |
| 0.09528 | 10.85 | 10.85 | 0 | ANNUAL | LINE | 5 |
| 0.08953 | 11.01 | 11.01 | 0 | ANNUAL | LINE | 5 |
| 0.0877 | 11.27 | 11.27 | 0 | ANNUAL | LINE | 5 |
| 0.13148 | 11.6 | 11.6 | 0 | ANNUAL | LINE | 5 |
| 0.12148 | 11.58 | 11.58 | 0 | ANNUAL | LINE | 5 |
| 0.11528 | 11.45 | 11.45 | 0 | ANNUAL | LINE | 5 |
| 0.10735 | 11.43 | 11.43 | 0 | ANNUAL | LINE | 5 |
| 0.09929 | 11.34 | 11.34 | 0 | ANNUAL | LINE | 5 |
| 0.09661 | 11.6 | 11.6 | 0 | ANNUAL | LINE | 5 |
| 0.09379 | 11.86 | 11.86 | 0 | ANNUAL | LINE | 5 |
| 0.08973 | 12.07 | 12.07 | 0 | ANNUAL | LINE | 5 |
| 0.08465 | 12.25 | 12.25 | 0 | ANNUAL | LINE | 5 |
| 0.0816 | 11.69 | 11.69 | 0 | ANNUAL | LINE | 5 |
| 0.07653 | 11.97 | 11.97 | 0 | ANNUAL | LINE | 5 |
| 0.09097 | 9.31 | 9.31 | 0 | ANNUAL | LINE | 5 |

# Moss Street

**2019** **No Mitigation**

**Construction Annual DPM Emissions ( as PM10 Exhaust)**

| X (m) | Y (m) | Onsite Area Source Annual DPM Exhaust w/Unit Emissions (ug/m3) | Onsite Annual DPM Exhaust w/Actual Emissions (ug/m3) | Offsite L1 Annual DPM Exhaust w/Unit Emissions (ug/m3) | Offsite Annual DPM Exhaust w/Actual Emissions (ug/m3) | Total DPM (ug/m3) |
|---|---|---|---|---|---|---|
| 491856.94 | 3608423.76 | 631633.5918 | 0.52343 | 2.71215 | 1.75387E-05 | 0.52345 |
| 491770.82 | 3608296.56 | 83768.45212 | 0.06942 | 40.63129 | 2.62751E-04 | 0.06968 |
| 491786.69 | 3608300.4 | 169029.1196 | 0.14007 | 37.16311 | 2.40324E-04 | 0.14031 |
| 491777.07 | 3608270.58 | 37629.84601 | 0.03118 | 18.63654 | 1.20517E-04 | 0.03130 |
| 491794.39 | 3608275.87 | 71537.09153 | 0.05928 | 18.30192 | 1.18353E-04 | 0.05940 |
| 491789.88 | 3608254.44 | 30952.91267 | 0.02565 | 11.83867 | 7.65574E-05 | 0.02573 |
| 491793.88 | 3608239.79 | 22440.86907 | 0.01860 | 8.50172 | 5.49783E-05 | 0.01865 |
| 491796.54 | 3608225.81 | 16889.37505 | 0.01400 | 6.29229 | 4.06905E-05 | 0.01404 |
| 491799.2 | 3608213.16 | 13520.08898 | 0.01120 | 4.82803 | 3.12215E-05 | 0.01124 |
| 491804.53 | 3608198.51 | 11109.97723 | 0.00921 | 3.60052 | 2.32836E-05 | 0.00923 |
| 491835.16 | 3608317.03 | 396533.5888 | 0.32860 | 17.47807 | 1.13026E-04 | 0.32872 |
| 491837.82 | 3608303.71 | 271820.1418 | 0.22526 | 16.36569 | 1.05832E-04 | 0.22536 |
| 491843.81 | 3608287.73 | 172647.9047 | 0.14307 | 13.10984 | 8.47777E-05 | 0.14316 |
| 491851.14 | 3608274.41 | 123009.1203 | 0.10194 | 10.45869 | 6.76335E-05 | 0.10200 |
| 491863.07 | 3608247.22 | 66875.79104 | 0.05542 | 6.89013 | 4.45566E-05 | 0.05546 |
| 491867.68 | 3608231.55 | 48552.36905 | 0.04024 | 5.50992 | 3.56311E-05 | 0.04027 |
| 491875.05 | 3608218.65 | 39141.4192 | 0.03244 | 4.51933 | 2.92253E-05 | 0.03247 |
| 491878.74 | 3608195.61 | 25762.88386 | 0.02135 | 3.29514 | 2.13088E-05 | 0.02137 |
| 491885.19 | 3608177.18 | 19590.4194 | 0.01623 | 2.54421 | 1.64527E-05 | 0.01625 |
| 491807.78 | 3608183.63 | 8991.73281 | 0.00745 | 2.70752 | 1.75088E-05 | 0.00747 |
| 491812.39 | 3608167.97 | 7461.70142 | 0.00618 | 2.04387 | 1.32171E-05 | 0.00620 |
| 491819.76 | 3608146.77 | 6015.00085 | 0.00498 | 1.44327 | 9.33323E-06 | 0.00499 |
| 491840.03 | 3608155.06 | 8586.85941 | 0.00712 | 1.76573 | 1.14185E-05 | 0.00713 |
| 491868.6 | 3608170.73 | 15061.64567 | 0.01248 | 2.33746 | 1.51157E-05 | 0.01250 |
| 491865.26 | 3608414.36 | 589528.9513 | 0.48854 | 2.83789 | 1.83519E-05 | 0.48856 |
| 491867.52 | 3608403.04 | 603276.5021 | 0.49993 | 3.15933 | 2.04305E-05 | 0.49995 |
| 491872.05 | 3608392.29 | 591456.4074 | 0.49014 | 3.45016 | 2.23112E-05 | 0.49016 |
| 491874.88 | 3608377.58 | 597304.6585 | 0.49498 | 4.03201 | 2.60739E-05 | 0.49501 |
| 491886.76 | 3608431.91 | 388718.8886 | 0.32213 | 2.05662 | 1.32996E-05 | 0.32214 |
| 491890.73 | 3608422.29 | 390103.9893 | 0.32328 | 2.21408 | 1.43178E-05 | 0.32329 |
| 491896.39 | 3608409.84 | 385911.6877 | 0.31980 | 2.42670 | 1.56928E-05 | 0.31982 |
| 491900.35 | 3608397.38 | 386378.606 | 0.32019 | 2.69290 | 1.74142E-05 | 0.32021 |
| 491903.74 | 3608384.93 | 384883.2425 | 0.31895 | 3.01035 | 1.94671E-05 | 0.31897 |
| 491912.8 | 3608444.92 | 257671.8221 | 0.21353 | 1.56146 | 1.00975E-05 | 0.21354 |
| 491917.89 | 3608432.47 | 263360.5712 | 0.21825 | 1.71251 | 1.10743E-05 | 0.21826 |
| 491921.29 | 3608418.89 | 272794.7326 | 0.22606 | 1.91468 | 1.23817E-05 | 0.22608 |
| 491926.95 | 3608408.14 | 268804.5308 | 0.22276 | 2.05708 | 1.33026E-05 | 0.22277 |
| 491930.91 | 3608396.25 | 268530.5384 | 0.22253 | 2.25717 | 1.45965E-05 | 0.22254 |
| 491950.72 | 3608425.12 | 194646.6309 | 0.16130 | 1.54420 | 9.98592E-06 | 0.16131 |
| 491954.11 | 3608416.06 | 196618.6307 | 0.16294 | 1.64752 | 1.06541E-05 | 0.16295 |
| 491959.21 | 3608404.74 | 195737.5449 | 0.16221 | 1.77690 | 1.14907E-05 | 0.16222 |
| 491984.11 | 3608467.56 | 110109.8527 | 0.09125 | 0.91756 | 5.93361E-06 | 0.09125 |
| 491987.5 | 3608453.98 | 118307.1477 | 0.09804 | 1.01343 | 6.55357E-06 | 0.09805 |
| 491993.16 | 3608442.66 | 121481.4834 | 0.10067 | 1.08708 | 7.02985E-06 | 0.10068 |
| 491998.26 | 3608432.47 | 123421.6186 | 0.10228 | 1.15656 | 7.47916E-06 | 0.10229 |
| 492002.22 | 3608421.15 | 126246.5201 | 0.10462 | 1.24684 | 8.06297E-06 | 0.10463 |
| 492012.41 | 3608475.49 | 83621.49564 | 0.06930 | 0.77086 | 4.98494E-06 | 0.06930 |
| 492015.24 | 3608463.6 | 89538.12932 | 0.07420 | 0.83799 | 5.41905E-06 | 0.07421 |

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|---|---|---|---|---|---|---|
| 492020.9 | 3608451.15 | 93343.85437 | 0.07735 | 0.90443 | 5.84870E-06 | 0.07736 |
| 492024.29 | 3608441.53 | 96373.73261 | 0.07986 | 0.96222 | 6.22241E-06 | 0.07987 |
| 492028.25 | 3608428.51 | 100102.7559 | 0.08295 | 1.04776 | 6.77558E-06 | 0.08296 |
| 492037.31 | 3608486.24 | 64997.07485 | 0.05386 | 0.64922 | 4.19833E-06 | 0.05387 |
| 492042.4 | 3608472.09 | 70003.93619 | 0.05801 | 0.70953 | 4.58834E-06 | 0.05802 |
| 492046.36 | 3608461.34 | 73396.40947 | 0.06082 | 0.75843 | 4.90456E-06 | 0.06083 |
| 492050.89 | 3608450.58 | 76111.04301 | 0.06307 | 0.80837 | 5.22751E-06 | 0.06308 |
| 492055.42 | 3608440.4 | 78120.56521 | 0.06474 | 0.85687 | 5.54114E-06 | 0.06474 |
| 492065.61 | 3608493.6 | 51730.61634 | 0.04287 | 0.56015 | 3.62234E-06 | 0.04287 |
| 492069 | 3608481.15 | 55673.63012 | 0.04614 | 0.60579 | 3.91748E-06 | 0.04614 |
| 492075.23 | 3608469.26 | 58198.33458 | 0.04823 | 0.64600 | 4.17750E-06 | 0.04823 |
| 492078.06 | 3608457.38 | 61580.37877 | 0.05103 | 0.69626 | 4.50252E-06 | 0.05104 |
| 492082.59 | 3608446.62 | 63614.62687 | 0.05272 | 0.73928 | 4.78072E-06 | 0.05272 |
| 491873.18 | 3608334.56 | 510026.4393 | 0.42266 | 7.44433 | 4.81404E-05 | 0.42270 |
| 491929.78 | 3608349.84 | 275582.9614 | 0.22837 | 3.59829 | 2.32692E-05 | 0.22840 |
| 491879.97 | 3608317.02 | 336657.7205 | 0.27899 | 7.99283 | 5.16874E-05 | 0.27904 |
| 491893.22 | 3608305.33 | 244539.0944 | 0.20265 | 7.09578 | 4.58865E-05 | 0.20269 |
| 491889.89 | 3608289.35 | 180966.3293 | 0.14997 | 7.41382 | 4.79431E-05 | 0.15001 |
| 491907.21 | 3608277.37 | 138377.9598 | 0.11467 | 6.01035 | 3.88673E-05 | 0.11471 |
| 491909.87 | 3608246.74 | 79154.74331 | 0.06559 | 4.98056 | 3.22079E-05 | 0.06563 |
| 491914.53 | 3608232.76 | 62103.64315 | 0.05146 | 4.32670 | 2.79796E-05 | 0.05149 |
| 491920.52 | 3608219.44 | 50060.99609 | 0.04149 | 3.72852 | 2.41113E-05 | 0.04151 |
| 491923.85 | 3608203.46 | 38703.0525 | 0.03207 | 3.15801 | 2.04220E-05 | 0.03209 |
| 491922.52 | 3608187.48 | 29639.67512 | 0.02456 | 2.68938 | 1.73915E-05 | 0.02458 |
| 491933.84 | 3608176.16 | 26152.75972 | 0.02167 | 2.31799 | 1.49898E-05 | 0.02169 |
| 491936.5 | 3608332.63 | 234523.5732 | 0.19435 | 3.92068 | 2.53540E-05 | 0.19437 |
| 491945.82 | 3608306.66 | 173169.8634 | 0.14350 | 4.13765 | 2.67570E-05 | 0.14353 |
| 491948.49 | 3608292.02 | 145064.0697 | 0.12021 | 4.17470 | 2.69966E-05 | 0.12024 |
| 491954.48 | 3608266.71 | 103224.5835 | 0.08554 | 3.92112 | 2.53568E-05 | 0.08557 |
| 491965.8 | 3608249.4 | 80108.96105 | 0.06639 | 3.44176 | 2.22569E-05 | 0.06641 |
| 491959.81 | 3608230.76 | 62686.59318 | 0.05195 | 3.27610 | 2.11856E-05 | 0.05197 |
| 491973.12 | 3608219.44 | 53627.38352 | 0.04444 | 2.85414 | 1.84569E-05 | 0.04446 |
| 491965.13 | 3608198.8 | 40196.10183 | 0.03331 | 2.57399 | 1.66453E-05 | 0.03333 |
| 491987.11 | 3608190.14 | 36888.98902 | 0.03057 | 2.21423 | 1.43188E-05 | 0.03058 |
| 491975.79 | 3608366.59 | 178873.4984 | 0.14823 | 2.25235 | 1.45653E-05 | 0.14825 |
| 491980.45 | 3608353.27 | 169371.4764 | 0.14036 | 2.42270 | 1.56669E-05 | 0.14037 |
| 491988.44 | 3608337.29 | 152041.2074 | 0.12600 | 2.55377 | 1.65145E-05 | 0.12601 |
| 491991.77 | 3608319.32 | 136973.1522 | 0.11351 | 2.73973 | 1.77171E-05 | 0.11353 |
| 492001.09 | 3608294.68 | 110325.6905 | 0.09143 | 2.77387 | 1.79379E-05 | 0.09144 |
| 492006.41 | 3608282.03 | 97363.99563 | 0.08068 | 2.72184 | 1.76014E-05 | 0.08070 |
| 492013.07 | 3608266.05 | 82663.1572 | 0.06850 | 2.61058 | 1.68819E-05 | 0.06852 |
| 492013.07 | 3608251.4 | 72289.32148 | 0.05991 | 2.56586 | 1.65927E-05 | 0.05992 |
| 492028.39 | 3608241.41 | 62887.85268 | 0.05211 | 2.30116 | 1.48810E-05 | 0.05213 |
| 492019.07 | 3608222.77 | 53476.99655 | 0.04432 | 2.28757 | 1.47931E-05 | 0.04433 |
| 492045.7 | 3608210.78 | 45452.49661 | 0.03767 | 1.92083 | 1.24215E-05 | 0.03768 |
| 492031.05 | 3608385.23 | 112727.5006 | 0.09342 | 1.43445 | 9.27619E-06 | 0.09343 |
| 492035.71 | 3608369.92 | 110781.352 | 0.09180 | 1.55699 | 1.00686E-05 | 0.09181 |
| 492027.06 | 3608353.27 | 117475.215 | 0.09735 | 1.81736 | 1.17524E-05 | 0.09736 |
| 492046.36 | 3608339.96 | 100944.5021 | 0.08365 | 1.75203 | 1.13299E-05 | 0.08366 |
| 492040.37 | 3608324.64 | 101087.0358 | 0.08377 | 1.94963 | 1.26077E-05 | 0.08378 |
| 492057.02 | 3608313.32 | 87983.27103 | 0.07291 | 1.84423 | 1.19261E-05 | 0.07292 |
| 492055.69 | 3608297.34 | 82983.20924 | 0.06877 | 1.94539 | 1.25803E-05 | 0.06878 |
| 492059.02 | 3608282.03 | 75410.62761 | 0.06249 | 1.96082 | 1.26801E-05 | 0.06250 |
| 492069.67 | 3608270.04 | 67070.83152 | 0.05558 | 1.86581 | 1.20657E-05 | 0.05559 |
| 492061.68 | 3608253.4 | 62148.13063 | 0.05150 | 1.94735 | 1.25930E-05 | 0.05151 |
| 492078.32 | 3608241.41 | 53934.29894 | 0.04469 | 1.76457 | 1.14110E-05 | 0.04471 |
| 492079.66 | 3608226.76 | 48297.83936 | 0.04002 | 1.71233 | 1.10732E-05 | 0.04004 |
| 492069.51 | 3608395.3 | 84466.80709 | 0.07000 | 1.11315 | 7.19844E-06 | 0.07000 |
| 492076.17 | 3608375.99 | 83704.79149 | 0.06937 | 1.22143 | 7.89865E-06 | 0.06937 |
| 492085.49 | 3608364.01 | 79670.90896 | 0.06602 | 1.25216 | 8.09737E-06 | 0.06603 |

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|---|---|---|---|---|---|---|
| 492102.14 | 3608406.62 | 66659.39687 | 0.05524 | 0.89809 | 5.80770E-06 | 0.05525 |
| 492129.44 | 3608410.61 | 56135.98193 | 0.04652 | 0.78540 | 5.07897E-06 | 0.04652 |
| 492095.48 | 3608352.69 | 75074.61459 | 0.06221 | 1.26584 | 8.18584E-06 | 0.06222 |
| 492094.15 | 3608336.04 | 74769.00478 | 0.06196 | 1.37757 | 8.90837E-06 | 0.06197 |
| 492135.43 | 3608348.69 | 59822.0277 | 0.04957 | 1.06697 | 6.89980E-06 | 0.04958 |
| 492101.47 | 3608312.74 | 68685.98252 | 0.05692 | 1.44695 | 9.35703E-06 | 0.05693 |
| 492120.78 | 3608244.15 | 47515.56367 | 0.03938 | 1.43698 | 9.29255E-06 | 0.03939 |
| 492106.8 | 3608297.42 | 63920.32042 | 0.05297 | 1.46755 | 9.49024E-06 | 0.05298 |
| 492168.06 | 3608256.14 | 42321.71042 | 0.03507 | 1.15696 | 7.48174E-06 | 0.03508 |
| 491832.47 | 3608106.99 | 4180.27461 | 0.00346 | 0.82048 | 5.30582E-06 | 0.00347 |
| 491853.78 | 3608116.31 | 5792.22388 | 0.00480 | 1.01929 | 6.59147E-06 | 0.00481 |
| 491874.42 | 3608123.64 | 7782.89246 | 0.00645 | 1.19844 | 7.74998E-06 | 0.00646 |
| 491899.72 | 3608128.96 | 10460.46231 | 0.00867 | 1.34443 | 8.69406E-06 | 0.00868 |
| 491836.47 | 3608093.01 | 3710.77936 | 0.00308 | 0.68642 | 4.43889E-06 | 0.00308 |
| 491877.09 | 3608106.33 | 6350.14878 | 0.00526 | 0.95334 | 6.16499E-06 | 0.00527 |
| 491905.05 | 3608118.98 | 9510.661 | 0.00788 | 1.19114 | 7.70278E-06 | 0.00789 |
| 491907.71 | 3608101.66 | 7734.16153 | 0.00641 | 0.96262 | 6.22500E-06 | 0.00642 |
| 491883.74 | 3608091.01 | 5569.59303 | 0.00462 | 0.79462 | 5.13859E-06 | 0.00462 |
| 491848.45 | 3608065.04 | 3079.74148 | 0.00255 | 0.50327 | 3.25451E-06 | 0.00256 |
| 491853.12 | 3608053.06 | 2845.00857 | 0.00236 | 0.44410 | 2.87187E-06 | 0.00236 |
| 491873.09 | 3608063.05 | 3716.66742 | 0.00308 | 0.54139 | 3.50102E-06 | 0.00308 |
| 491909.71 | 3608072.37 | 5512.02895 | 0.00457 | 0.67690 | 4.37733E-06 | 0.00457 |
| 491921.03 | 3608059.05 | 5157.77157 | 0.00427 | 0.59639 | 3.85669E-06 | 0.00428 |
| 491925.69 | 3608040.41 | 4365.67123 | 0.00362 | 0.49036 | 3.17102E-06 | 0.00362 |
| 491856.44 | 3608031.75 | 2391.11038 | 0.00198 | 0.35189 | 2.27558E-06 | 0.00198 |
| 491867.1 | 3608010.44 | 2147.01462 | 0.00178 | 0.29200 | 1.88828E-06 | 0.00178 |
| 491875.09 | 3607976.49 | 1718.34971 | 0.00142 | 0.21562 | 1.39436E-06 | 0.00143 |
| 491918.37 | 3607991.8 | 2607.50294 | 0.00216 | 0.28963 | 1.87296E-06 | 0.00216 |
| 491945 | 3608000.46 | 3347.42556 | 0.00277 | 0.34252 | 2.21498E-06 | 0.00278 |
| 491935.09 | 3608141.53 | 15811.72963 | 0.01310 | 1.58326 | 1.02385E-05 | 0.01311 |
| 491960.9 | 3608152.59 | 20885.93528 | 0.01731 | 1.72935 | 1.11832E-05 | 0.01732 |
| 491988.54 | 3608164.57 | 26680.53337 | 0.02211 | 1.81216 | 1.17187E-05 | 0.02212 |
| 491946.15 | 3608114.81 | 11726.3336 | 0.00972 | 1.17209 | 7.57958E-06 | 0.00973 |
| 491988.54 | 3608129.55 | 17191.33706 | 0.01425 | 1.33436 | 8.62894E-06 | 0.01425 |
| 492018.04 | 3608107.44 | 14609.94337 | 0.01211 | 1.06121 | 6.86255E-06 | 0.01211 |
| 491955.37 | 3608089 | 8955.75981 | 0.00742 | 0.88806 | 5.74284E-06 | 0.00743 |
| 491963.66 | 3608059.51 | 6685.43509 | 0.00554 | 0.65486 | 4.23480E-06 | 0.00554 |
| 491984.86 | 3608059.51 | 7477.34499 | 0.00620 | 0.67462 | 4.36258E-06 | 0.00620 |
| 492031.86 | 3608066.89 | 9871.96109 | 0.00818 | 0.74218 | 4.79947E-06 | 0.00819 |
| 492020.8 | 3608040.16 | 7216.79234 | 0.00598 | 0.58284 | 3.76907E-06 | 0.00598 |
| 491977.49 | 3608027.26 | 5172.79373 | 0.00429 | 0.48467 | 3.13423E-06 | 0.00429 |
| 491983.94 | 3608007.9 | 4445.64427 | 0.00368 | 0.40747 | 2.63500E-06 | 0.00369 |
| 492044.76 | 3608018.04 | 6426.81543 | 0.00533 | 0.49104 | 3.17542E-06 | 0.00533 |
| 492048.45 | 3608001.45 | 5605.04851 | 0.00464 | 0.42857 | 2.77144E-06 | 0.00465 |
| 491999.6 | 3607989.47 | 4066.56556 | 0.00337 | 0.35545 | 2.29860E-06 | 0.00337 |
| 492038.31 | 3608171.95 | 30870.0028 | 0.02558 | 1.63629 | 1.05814E-05 | 0.02559 |
| 492047.53 | 3608155.36 | 26046.82328 | 0.02158 | 1.43556 | 9.28337E-06 | 0.02159 |
| 492086.23 | 3608187.61 | 34800.01113 | 0.02884 | 1.48031 | 9.57276E-06 | 0.02885 |
| 492095.45 | 3608171.03 | 29921.10786 | 0.02480 | 1.33609 | 8.64013E-06 | 0.02480 |
| 492053.98 | 3608123.1 | 18782.21306 | 0.01556 | 1.13753 | 7.35609E-06 | 0.01557 |
| 492109.27 | 3608145.22 | 23826.16581 | 0.01974 | 1.13313 | 7.32764E-06 | 0.01975 |
| 492058.59 | 3608100.06 | 14968.14869 | 0.01240 | 0.95426 | 6.17094E-06 | 0.01241 |
| 492123.1 | 3608113.89 | 18276.37331 | 0.01515 | 0.92760 | 5.99853E-06 | 0.01515 |
| 492135.08 | 3608094.53 | 15629.64783 | 0.01295 | 0.81189 | 5.25027E-06 | 0.01296 |
| 492076.1 | 3608065.04 | 11034.36032 | 0.00914 | 0.72072 | 4.66070E-06 | 0.00915 |
| 492085.31 | 3608030.02 | 8189.43118 | 0.00679 | 0.55127 | 3.56491E-06 | 0.00679 |
| 492139.69 | 3608065.96 | 12391.12724 | 0.01027 | 0.68060 | 4.40125E-06 | 0.01027 |
| 492139.69 | 3608212.5 | 37320.35401 | 0.03093 | 1.27558 | 8.24883E-06 | 0.03094 |
| 492183.92 | 3608227.24 | 35481.27135 | 0.02940 | 1.08028 | 6.98587E-06 | 0.02941 |
| 492143.37 | 3608192.22 | 32542.94347 | 0.02697 | 1.20370 | 7.78400E-06 | 0.02698 |

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| 492194.98 | 3608204.2 | 30785.83068 | 0.02551 | 1.01145 | 6.54077E-06 | 0.02552 |
| 492203.28 | 3608183.01 | 27032.74153 | 0.02240 | 0.94695 | 6.12367E-06 | 0.02241 |
| 492151.67 | 3608153.52 | 24592.58173 | 0.02038 | 1.03352 | 6.68349E-06 | 0.02039 |
| 492197.75 | 3608162.73 | 24382.24963 | 0.02021 | 0.91938 | 5.94538E-06 | 0.02021 |
| 492159.04 | 3608135.08 | 21371.48879 | 0.01771 | 0.93915 | 6.07323E-06 | 0.01772 |
| 492164.57 | 3608118.49 | 18861.03342 | 0.01563 | 0.86053 | 5.56481E-06 | 0.01564 |
| 492219.86 | 3608141.53 | 20767.73595 | 0.01721 | 0.80792 | 5.22460E-06 | 0.01722 |
| 492223.55 | 3608114.81 | 17605.82478 | 0.01459 | 0.73113 | 4.72802E-06 | 0.01459 |
| 492231.84 | 3608098.22 | 15772.55758 | 0.01307 | 0.67306 | 4.35249E-06 | 0.01307 |
| 492170.1 | 3608097.3 | 16098.24566 | 0.01334 | 0.76825 | 4.96806E-06 | 0.01335 |
| 492180.24 | 3608077.94 | 13955.35376 | 0.01156 | 0.68315 | 4.41774E-06 | 0.01157 |
| 492183.92 | 3608055.83 | 11864.67278 | 0.00983 | 0.60414 | 3.90681E-06 | 0.00984 |
| 492218.94 | 3608068.73 | 13103.09219 | 0.01086 | 0.60903 | 3.93843E-06 | 0.01086 |
| 492246.59 | 3608230.01 | 29459.61125 | 0.02441 | 0.84615 | 5.47182E-06 | 0.02442 |
| 492239.22 | 3608207.89 | 27744.96499 | 0.02299 | 0.86205 | 5.57464E-06 | 0.02300 |
| 492241.98 | 3608194.07 | 25986.19077 | 0.02153 | 0.84196 | 5.44472E-06 | 0.02154 |
| 492246.59 | 3608176.56 | 23745.69812 | 0.01968 | 0.80800 | 5.22511E-06 | 0.01968 |
| 492257.65 | 3608163.65 | 21811.33647 | 0.01807 | 0.76159 | 4.92499E-06 | 0.01808 |
| 492261.34 | 3608145.22 | 19794.15036 | 0.01640 | 0.72336 | 4.67777E-06 | 0.01641 |
| 492266.87 | 3608124.02 | 17592.10804 | 0.01458 | 0.67343 | 4.35489E-06 | 0.01458 |
| 492272.39 | 3608108.36 | 16065.59041 | 0.01331 | 0.63341 | 4.09609E-06 | 0.01332 |
| 492277.92 | 3608094.53 | 14809.70621 | 0.01227 | 0.59758 | 3.86439E-06 | 0.01228 |
| 492285.3 | 3608081.63 | 13701.00363 | 0.01135 | 0.56237 | 3.63669E-06 | 0.01136 |
| 491685.34 | 3608168.26 | 1905.1755 | 0.00158 | 0.95379 | 6.16790E-06 | 0.00158 |
| 491689.95 | 3608145.22 | 1616.14261 | 0.00134 | 0.68053 | 4.40080E-06 | 0.00134 |
| 491694.56 | 3608131.4 | 1490.70102 | 0.00124 | 0.57313 | 3.70627E-06 | 0.00124 |
| 491698.24 | 3608118.49 | 1381.51988 | 0.00114 | 0.49193 | 3.18118E-06 | 0.00115 |
| 491701.01 | 3608105.59 | 1277.01571 | 0.00106 | 0.42458 | 2.74564E-06 | 0.00106 |
| 491703.77 | 3608093.61 | 1191.86472 | 0.00099 | 0.37342 | 2.41480E-06 | 0.00099 |
| 491707.46 | 3608079.79 | 1107.7138 | 0.00092 | 0.32522 | 2.10311E-06 | 0.00092 |
| 491713.91 | 3608070.57 | 1083.94065 | 0.00090 | 0.30182 | 1.95179E-06 | 0.00090 |
| 491715.75 | 3608058.59 | 1012.41747 | 0.00084 | 0.26913 | 1.74039E-06 | 0.00084 |
| 491720.36 | 3608046.61 | 964.20218 | 0.00080 | 0.24322 | 1.57284E-06 | 0.00080 |
| 491732.34 | 3608014.36 | 849.87505 | 0.00070 | 0.18861 | 1.21969E-06 | 0.00071 |
| 491735.11 | 3608002.37 | 804.64468 | 0.00067 | 0.17194 | 1.11189E-06 | 0.00067 |
| 491735.11 | 3607991.32 | 754.55705 | 0.00063 | 0.15735 | 1.01754E-06 | 0.00063 |
| 491744.32 | 3607980.26 | 748.06203 | 0.00062 | 0.14774 | 9.55394E-07 | 0.00062 |
| 491747.09 | 3607967.35 | 707.05832 | 0.00059 | 0.13494 | 8.72620E-07 | 0.00059 |
| 491755.38 | 3607954.45 | 690.7191 | 0.00057 | 0.12526 | 8.10022E-07 | 0.00057 |
| 491759.07 | 3607939.71 | 651.23376 | 0.00054 | 0.11385 | 7.36237E-07 | 0.00054 |
| 491636.5 | 3608156.28 | 1317.55011 | 0.00109 | 0.61405 | 3.97089E-06 | 0.00110 |
| 491618.06 | 3608148.91 | 1155.56399 | 0.00096 | 0.50736 | 3.28096E-06 | 0.00096 |
| 491598.71 | 3608143.38 | 1035.22776 | 0.00086 | 0.42946 | 2.77720E-06 | 0.00086 |
| 491579.36 | 3608134.16 | 915.03025 | 0.00076 | 0.35221 | 2.27765E-06 | 0.00076 |
| 491565.53 | 3608132.32 | 865.75646 | 0.00072 | 0.32156 | 2.07944E-06 | 0.00072 |
| 491548.94 | 3608123.1 | 781.22765 | 0.00065 | 0.27180 | 1.75766E-06 | 0.00065 |
| 491654.01 | 3608119.42 | 1093.05063 | 0.00091 | 0.41940 | 2.71214E-06 | 0.00091 |
| 491663.22 | 3608133.24 | 1261.55124 | 0.00105 | 0.51410 | 3.32454E-06 | 0.00105 |
| 491657.69 | 3608106.51 | 1016.55434 | 0.00084 | 0.36746 | 2.37626E-06 | 0.00084 |
| 491663.22 | 3608094.53 | 961.6658 | 0.00080 | 0.32912 | 2.12833E-06 | 0.00080 |
| 491674.28 | 3608094.53 | 1013.91396 | 0.00084 | 0.34110 | 2.20580E-06 | 0.00084 |
| 491681.65 | 3608086.24 | 996.05117 | 0.00083 | 0.31991 | 2.06877E-06 | 0.00083 |
| 491686.26 | 3608072.42 | 932.10878 | 0.00077 | 0.28186 | 1.82271E-06 | 0.00077 |
| 491663.22 | 3608078.87 | 868.71747 | 0.00072 | 0.28068 | 1.81508E-06 | 0.00072 |
| 491671.52 | 3608072.42 | 865.98489 | 0.00072 | 0.27000 | 1.74602E-06 | 0.00072 |
| 491676.12 | 3608058.59 | 812.08348 | 0.00067 | 0.23991 | 1.55143E-06 | 0.00067 |
| 491678.89 | 3608048.45 | 773.86256 | 0.00064 | 0.22037 | 1.42507E-06 | 0.00064 |
| 491690.87 | 3608053.98 | 850.17689 | 0.00070 | 0.23929 | 1.54742E-06 | 0.00071 |
| 491695.48 | 3608035.55 | 779.20615 | 0.00065 | 0.20522 | 1.32710E-06 | 0.00065 |
| 491701.93 | 3608024.49 | 755.88226 | 0.00063 | 0.18973 | 1.22693E-06 | 0.00063 |

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| 491624.52 | 3608121.26 | 982.59795 | 0.00081 | 0.38106 | 2.46421E-06 | 0.00082 |
| 491615.3 | 3608116.65 | 923.03046 | 0.00076 | 0.34920 | 2.25818E-06 | 0.00077 |
| 491603.32 | 3608112.97 | 867.25904 | 0.00072 | 0.31999 | 2.06929E-06 | 0.00072 |
| 491590.42 | 3608107.44 | 806.51646 | 0.00067 | 0.28739 | 1.85847E-06 | 0.00067 |
| 491582.12 | 3608104.67 | 774.91834 | 0.00064 | 0.27053 | 1.74944E-06 | 0.00064 |
| 491567.38 | 3608101.91 | 732.68088 | 0.00061 | 0.24793 | 1.60330E-06 | 0.00061 |
| 491553.55 | 3608094.53 | 678.74608 | 0.00056 | 0.21986 | 1.42177E-06 | 0.00056 |
| 491560 | 3608079.79 | 637.30235 | 0.00053 | 0.20076 | 1.29826E-06 | 0.00053 |
| 491571.98 | 3608083.47 | 669.156 | 0.00055 | 0.21644 | 1.39966E-06 | 0.00056 |
| 491585.81 | 3608088.08 | 711.15424 | 0.00059 | 0.23709 | 1.53320E-06 | 0.00059 |
| 491599.63 | 3608094.53 | 766.78998 | 0.00064 | 0.26452 | 1.71058E-06 | 0.00064 |
| 491614.38 | 3608097.3 | 814.843 | 0.00068 | 0.28675 | 1.85433E-06 | 0.00068 |
| 491626.36 | 3608102.83 | 877.45895 | 0.00073 | 0.31637 | 2.04588E-06 | 0.00073 |
| 491630.97 | 3608077.94 | 763.464 | 0.00063 | 0.25250 | 1.63285E-06 | 0.00063 |
| 491613.46 | 3608071.49 | 696.20751 | 0.00058 | 0.22558 | 1.45876E-06 | 0.00058 |
| 491635.57 | 3608062.28 | 706.00578 | 0.00059 | 0.22214 | 1.43652E-06 | 0.00059 |
| 491647.56 | 3608065.04 | 748.59786 | 0.00062 | 0.23548 | 1.52278E-06 | 0.00062 |
| 491568.3 | 3608046.61 | 544.90445 | 0.00045 | 0.16037 | 1.03707E-06 | 0.00045 |
| 491556.32 | 3608038.32 | 510.16707 | 0.00042 | 0.14559 | 9.41491E-07 | 0.00042 |
| 491572.91 | 3608032.79 | 512.18472 | 0.00042 | 0.14698 | 9.50479E-07 | 0.00043 |
| 491594.1 | 3608048.45 | 581.94028 | 0.00048 | 0.17577 | 1.13666E-06 | 0.00048 |
| 491589.49 | 3608035.55 | 537.61888 | 0.00045 | 0.15714 | 1.01618E-06 | 0.00045 |
| 491608.85 | 3608039.24 | 573.67335 | 0.00048 | 0.17041 | 1.10199E-06 | 0.00048 |
| 491612.53 | 3608025.41 | 537.6352 | 0.00045 | 0.15465 | 1.00008E-06 | 0.00045 |
| 491625.44 | 3608040.16 | 603.03153 | 0.00050 | 0.17932 | 1.15961E-06 | 0.00050 |
| 491636.5 | 3608029.1 | 586.7769 | 0.00049 | 0.16872 | 1.09107E-06 | 0.00049 |
| 491654.01 | 3608027.26 | 616.81819 | 0.00051 | 0.17328 | 1.12055E-06 | 0.00051 |
| 491643.87 | 3608011.59 | 547.07422 | 0.00045 | 0.14986 | 9.69103E-07 | 0.00045 |
| 491667.83 | 3608015.28 | 609.90493 | 0.00051 | 0.16255 | 1.05117E-06 | 0.00051 |
| 491689.03 | 3607995 | 601.27188 | 0.00050 | 0.14560 | 9.41555E-07 | 0.00050 |
| 491681.65 | 3607976.57 | 528.80566 | 0.00044 | 0.12538 | 8.10798E-07 | 0.00044 |
| 491704.69 | 3607986.71 | 621.67149 | 0.00052 | 0.14150 | 9.15042E-07 | 0.00052 |
| 491713.91 | 3607971.96 | 603.37593 | 0.00050 | 0.12953 | 8.37635E-07 | 0.00050 |
| 491725.89 | 3607958.14 | 598.23444 | 0.00050 | 0.12042 | 7.78723E-07 | 0.00050 |
| 491711.15 | 3607949.84 | 531.94139 | 0.00044 | 0.11043 | 7.14120E-07 | 0.00044 |
| 491729.58 | 3607943.39 | 565.80717 | 0.00047 | 0.10966 | 7.09141E-07 | 0.00047 |
| 491714.83 | 3607935.1 | 504.2339 | 0.00042 | 0.10089 | 6.52428E-07 | 0.00042 |
| 491724.97 | 3607923.12 | 500.55027 | 0.00041 | 0.09521 | 6.15697E-07 | 0.00042 |
| 491737.87 | 3607928.65 | 548.86938 | 0.00045 | 0.10112 | 6.53915E-07 | 0.00046 |
| 491735.11 | 3607910.22 | 495.12574 | 0.00041 | 0.08948 | 5.78643E-07 | 0.00041 |
| 491558.16 | 3608010.67 | 446.76664 | 0.00037 | 0.12114 | 7.83379E-07 | 0.00037 |
| 491579.36 | 3607998.69 | 437.37975 | 0.00036 | 0.11796 | 7.62815E-07 | 0.00036 |
| 491595.95 | 3608003.3 | 462.03995 | 0.00038 | 0.12660 | 8.18687E-07 | 0.00038 |
| 491613.46 | 3607995.92 | 463.12885 | 0.00038 | 0.12513 | 8.09181E-07 | 0.00038 |
| 491599.63 | 3607983.94 | 423.43448 | 0.00035 | 0.11194 | 7.23885E-07 | 0.00035 |
| 491623.59 | 3607979.33 | 437.88119 | 0.00036 | 0.11409 | 7.37789E-07 | 0.00036 |
| 491640.18 | 3607983.02 | 467.47351 | 0.00039 | 0.12094 | 7.82086E-07 | 0.00039 |
| 491660.46 | 3607968.28 | 466.12239 | 0.00039 | 0.11369 | 7.35202E-07 | 0.00039 |
| 491659.54 | 3607951.69 | 429.57667 | 0.00036 | 0.10173 | 6.57860E-07 | 0.00036 |
| 491677.05 | 3607950.77 | 457.63343 | 0.00038 | 0.10432 | 6.74609E-07 | 0.00038 |
| 491682.58 | 3607937.86 | 441.04738 | 0.00037 | 0.09695 | 6.26949E-07 | 0.00037 |
| 491670.6 | 3607928.65 | 403.26628 | 0.00033 | 0.08970 | 5.80065E-07 | 0.00033 |
| 491694.56 | 3607921.27 | 430.62047 | 0.00036 | 0.08923 | 5.77026E-07 | 0.00036 |
| 491682.58 | 3607913.9 | 396.2858 | 0.00033 | 0.08368 | 5.41136E-07 | 0.00033 |
| 491682.58 | 3607901.92 | 376.39613 | 0.00031 | 0.07800 | 5.04405E-07 | 0.00031 |
| 491705.62 | 3607902.84 | 416.61693 | 0.00035 | 0.08134 | 5.26003E-07 | 0.00035 |
| 491561.62 | 3607964.09 | 361.52381 | 0.00030 | 0.09104 | 5.88731E-07 | 0.00030 |
| 491578.12 | 3607959.66 | 363.39121 | 0.00030 | 0.09175 | 5.93322E-07 | 0.00030 |
| 491573.42 | 3607943.99 | 336.42249 | 0.00028 | 0.08283 | 5.35639E-07 | 0.00028 |
| 491600.84 | 3607959.66 | 378.65901 | 0.00031 | 0.09601 | 6.20870E-07 | 0.00031 |

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| 491591.44 | 3607944.77 | 347.74317 | 0.00029 | 0.08613 | 5.56979E-07 | 0.00029 |
| 491603.97 | 3607934.59 | 340.58815 | 0.00028 | 0.08299 | 5.36674E-07 | 0.00028 |
| 491615.72 | 3607947.91 | 370.81638 | 0.00031 | 0.09183 | 5.93839E-07 | 0.00031 |
| 491636.09 | 3607933.02 | 366.04732 | 0.00030 | 0.08695 | 5.62282E-07 | 0.00030 |
| 491625.12 | 3607917.35 | 332.03167 | 0.00028 | 0.07785 | 5.03435E-07 | 0.00028 |
| 491644.71 | 3607918.92 | 353.35695 | 0.00029 | 0.08111 | 5.24516E-07 | 0.00029 |
| 491642.36 | 3607896.99 | 320.10969 | 0.00027 | 0.07132 | 4.61207E-07 | 0.00027 |
| 491658.03 | 3607905.6 | 348.86545 | 0.00029 | 0.07669 | 4.95933E-07 | 0.00029 |
| 491665.08 | 3607887.59 | 331.99941 | 0.00028 | 0.07005 | 4.52994E-07 | 0.00028 |
| 491647.06 | 3607883.67 | 307.77096 | 0.00026 | 0.06677 | 4.31783E-07 | 0.00026 |
| 491564.8 | 3607922.84 | 303.4827 | 0.00025 | 0.07232 | 4.67674E-07 | 0.00025 |
| 491587.52 | 3607913.44 | 301.75849 | 0.00025 | 0.07149 | 4.62306E-07 | 0.00025 |
| 491573.42 | 3607903.25 | 283.1073 | 0.00023 | 0.06604 | 4.27063E-07 | 0.00024 |
| 491607.11 | 3607896.2 | 291.63159 | 0.00024 | 0.06721 | 4.34629E-07 | 0.00024 |
| 491603.97 | 3607878.97 | 270.49998 | 0.00022 | 0.06106 | 3.94858E-07 | 0.00022 |
| 491621.99 | 3607877.4 | 279.96461 | 0.00023 | 0.06223 | 4.02424E-07 | 0.00023 |
| 491892.25 | 3607962.79 | 1729.53705 | 0.00143 | 0.20211 | 1.30699E-06 | 0.00143 |
| 491943.96 | 3607975.32 | 2655.68093 | 0.00220 | 0.26865 | 1.73729E-06 | 0.00220 |
| 491586.79 | 3608712.31 | 8409.91149 | 0.00697 | 0.25537 | 1.65141E-06 | 0.00697 |
| 491579.14 | 3608732.72 | 7291.76171 | 0.00604 | 0.22345 | 1.44499E-06 | 0.00604 |
| 491579.14 | 3608751.86 | 6533.0195 | 0.00541 | 0.19896 | 1.28662E-06 | 0.00542 |
| 491563.83 | 3608778.64 | 5465.98803 | 0.00453 | 0.17032 | 1.10141E-06 | 0.00453 |
| 491558.73 | 3608797.78 | 4905.57279 | 0.00407 | 0.15360 | 9.93289E-07 | 0.00407 |
| 491545.97 | 3608824.57 | 4212.34249 | 0.00349 | 0.13396 | 8.66283E-07 | 0.00349 |
| 491543.42 | 3608838.6 | 3929.01444 | 0.00326 | 0.12516 | 8.09375E-07 | 0.00326 |
| 491534.49 | 3608869.21 | 3382.56676 | 0.00280 | 0.10868 | 7.02804E-07 | 0.00280 |
| 491635.26 | 3608725.07 | 8556.303 | 0.00709 | 0.23968 | 1.54994E-06 | 0.00709 |
| 491665.88 | 3608731.45 | 8360.83188 | 0.00693 | 0.23355 | 1.51030E-06 | 0.00693 |
| 491654.4 | 3608756.96 | 6906.22993 | 0.00572 | 0.19926 | 1.28856E-06 | 0.00572 |
| 491627.61 | 3608748.03 | 7224.74672 | 0.00599 | 0.20756 | 1.34223E-06 | 0.00599 |
| 491621.23 | 3608764.61 | 6439.38955 | 0.00534 | 0.18774 | 1.21406E-06 | 0.00534 |
| 491651.85 | 3608772.27 | 6214.64483 | 0.00515 | 0.18240 | 1.17953E-06 | 0.00515 |
| 491635.26 | 3608823.29 | 4517.60807 | 0.00374 | 0.13801 | 8.92473E-07 | 0.00374 |
| 491608.48 | 3608810.54 | 4835.62481 | 0.00401 | 0.14544 | 9.40521E-07 | 0.00401 |
| 491603.37 | 3608829.67 | 4336.69451 | 0.00359 | 0.13187 | 8.52767E-07 | 0.00359 |
| 491627.61 | 3608838.6 | 4143.13594 | 0.00343 | 0.12751 | 8.24572E-07 | 0.00343 |
| 491622.51 | 3608866.66 | 3564.66602 | 0.00295 | 0.11155 | 7.21363E-07 | 0.00295 |
| 491590.62 | 3608859.01 | 3701.20145 | 0.00307 | 0.11431 | 7.39211E-07 | 0.00307 |
| 491586.79 | 3608875.59 | 3404.77827 | 0.00282 | 0.10597 | 6.85279E-07 | 0.00282 |
| 491617.41 | 3608884.52 | 3257.20091 | 0.00270 | 0.10280 | 6.64779E-07 | 0.00270 |
| 491707.97 | 3608753.13 | 7153.25801 | 0.00593 | 0.20753 | 1.34204E-06 | 0.00593 |
| 491702.87 | 3608768.44 | 6396.431 | 0.00530 | 0.18982 | 1.22751E-06 | 0.00530 |
| 491696.49 | 3608791.4 | 5468.59705 | 0.00453 | 0.16695 | 1.07962E-06 | 0.00453 |
| 491688.84 | 3608805.43 | 4998.74356 | 0.00414 | 0.15457 | 9.99562E-07 | 0.00414 |
| 491683.74 | 3608834.77 | 4189.63762 | 0.00347 | 0.13298 | 8.59945E-07 | 0.00347 |
| 491674.81 | 3608851.36 | 3820.01121 | 0.00317 | 0.12236 | 7.91269E-07 | 0.00317 |
| 491669.71 | 3608874.32 | 3379.43532 | 0.00280 | 0.10986 | 7.10434E-07 | 0.00280 |
| 491667.15 | 3608903.66 | 2914.7126 | 0.00242 | 0.09656 | 6.24427E-07 | 0.00242 |
| 491741.14 | 3608758.23 | 6978.56924 | 0.00578 | 0.20192 | 1.30576E-06 | 0.00578 |
| 491733.49 | 3608772.27 | 6281.67673 | 0.00521 | 0.18683 | 1.20818E-06 | 0.00521 |
| 491727.11 | 3608797.78 | 5275.56965 | 0.00437 | 0.16283 | 1.05298E-06 | 0.00437 |
| 491720.73 | 3608809.26 | 4893.44238 | 0.00406 | 0.15316 | 9.90444E-07 | 0.00406 |
| 491711.8 | 3608833.5 | 4219.16689 | 0.00350 | 0.13521 | 8.74366E-07 | 0.00350 |
| 491706.7 | 3608855.18 | 3729.43269 | 0.00309 | 0.12169 | 7.86936E-07 | 0.00309 |
| 491701.6 | 3608871.77 | 3409.51209 | 0.00283 | 0.11253 | 7.27701E-07 | 0.00283 |
| 491699.05 | 3608899.83 | 2955.05305 | 0.00245 | 0.09935 | 6.42469E-07 | 0.00245 |
| 491778.13 | 3608770.99 | 6583.73997 | 0.00546 | 0.18625 | 1.20443E-06 | 0.00546 |
| 491773.03 | 3608791.4 | 5700.1801 | 0.00472 | 0.16812 | 1.08719E-06 | 0.00472 |
| 491762.83 | 3608811.81 | 4952.10555 | 0.00410 | 0.15217 | 9.84042E-07 | 0.00410 |
| 491760.28 | 3608828.39 | 4468.7311 | 0.00370 | 0.14044 | 9.08187E-07 | 0.00370 |

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|---|---|---|---|---|---|---|
| 491755.17 | 3608851.36 | 3900.00547 | 0.00323 | 0.12606 | 8.15195E-07 | 0.00323 |
| 491747.52 | 3608869.21 | 3518.43567 | 0.00292 | 0.11604 | 7.50399E-07 | 0.00292 |
| 491738.59 | 3608884.52 | 3229.67762 | 0.00268 | 0.10809 | 6.98988E-07 | 0.00268 |

## Moss Street

**2020** **No Mitigation** **at Sensitive Receptors**

| X (m) | Y (m) | Onsite Annual DPM Exhaust w/Unit Emissions (ug/m3) | Onsite Annual DPM Exhaust w/Actual Emissions (ug/m3) | Offsite Annual DPM Exhaust w/Unit Emissions (ug/m3) | Offsite Annual DPM Exhaust w/Actual Emissions (ug/m3) | Total DPM (ug/m3) |
|---|---|---|---|---|---|---|
| 491856.94 | 3608423.76 | 631633.5918 | 0.36850 | 2.71215 | 3.06021E-05 | 0.36853 |
| 491770.82 | 3608296.56 | 83768.45212 | 0.04887 | 40.63129 | 4.58456E-04 | 0.04933 |
| 491786.69 | 3608300.4 | 169029.1196 | 0.09861 | 37.16311 | 4.19323E-04 | 0.09903 |
| 491777.07 | 3608270.58 | 37629.84601 | 0.02195 | 18.63654 | 2.10282E-04 | 0.02216 |
| 491794.39 | 3608275.87 | 71537.09153 | 0.04173 | 18.30192 | 2.06507E-04 | 0.04194 |
| 491789.88 | 3608254.44 | 30952.91267 | 0.01806 | 11.83867 | 1.33580E-04 | 0.01819 |
| 491793.88 | 3608239.79 | 22440.86907 | 0.01309 | 8.50172 | 9.59277E-05 | 0.01319 |
| 491796.54 | 3608225.81 | 16889.37505 | 0.00985 | 6.29229 | 7.09980E-05 | 0.00992 |
| 491799.2 | 3608213.16 | 13520.08898 | 0.00789 | 4.82803 | 5.44762E-05 | 0.00794 |
| 491804.53 | 3608198.51 | 11109.97723 | 0.00648 | 3.60052 | 4.06258E-05 | 0.00652 |
| 491835.16 | 3608317.03 | 396533.5888 | 0.23134 | 17.47807 | 1.97211E-04 | 0.23154 |
| 491837.82 | 3608303.71 | 271820.1418 | 0.15858 | 16.36569 | 1.84659E-04 | 0.15876 |
| 491843.81 | 3608287.73 | 172647.9047 | 0.10072 | 13.10984 | 1.47923E-04 | 0.10087 |
| 491851.14 | 3608274.41 | 123009.1203 | 0.07176 | 10.45869 | 1.18009E-04 | 0.07188 |
| 491863.07 | 3608247.22 | 66875.79104 | 0.03902 | 6.89013 | 7.77436E-05 | 0.03909 |
| 491867.68 | 3608231.55 | 48552.36905 | 0.02833 | 5.50992 | 6.21702E-05 | 0.02839 |
| 491875.05 | 3608218.65 | 39141.4192 | 0.02284 | 4.51933 | 5.09931E-05 | 0.02289 |
| 491878.74 | 3608195.61 | 25762.88386 | 0.01503 | 3.29514 | 3.71801E-05 | 0.01507 |
| 491885.19 | 3608177.18 | 19590.4194 | 0.01143 | 2.54421 | 2.87071E-05 | 0.01146 |
| 491807.78 | 3608183.63 | 8991.73281 | 0.00525 | 2.70752 | 3.05498E-05 | 0.00528 |
| 491812.39 | 3608167.97 | 7461.70142 | 0.00435 | 2.04387 | 2.30616E-05 | 0.00438 |
| 491819.76 | 3608146.77 | 6015.00085 | 0.00351 | 1.44327 | 1.62849E-05 | 0.00353 |
| 491840.03 | 3608155.06 | 8586.85941 | 0.00501 | 1.76573 | 1.99233E-05 | 0.00503 |
| 491868.6 | 3608170.73 | 15061.64567 | 0.00879 | 2.33746 | 2.63743E-05 | 0.00881 |
| 491865.26 | 3608414.36 | 589528.9513 | 0.34393 | 2.83789 | 3.20208E-05 | 0.34396 |
| 491867.52 | 3608403.04 | 603276.5021 | 0.35195 | 3.15933 | 3.56477E-05 | 0.35199 |
| 491872.05 | 3608392.29 | 591456.4074 | 0.34506 | 3.45016 | 3.89293E-05 | 0.34509 |
| 491874.88 | 3608377.58 | 597304.6585 | 0.34847 | 4.03201 | 4.54945E-05 | 0.34851 |
| 491886.76 | 3608431.91 | 388718.8886 | 0.22678 | 2.05662 | 2.32055E-05 | 0.22680 |
| 491890.73 | 3608422.29 | 390103.9893 | 0.22759 | 2.21408 | 2.49822E-05 | 0.22761 |
| 491896.39 | 3608409.84 | 385911.6877 | 0.22514 | 2.42670 | 2.73812E-05 | 0.22517 |
| 491900.35 | 3608397.38 | 386378.606 | 0.22541 | 2.69290 | 3.03849E-05 | 0.22544 |
| 491903.74 | 3608384.93 | 384883.2425 | 0.22454 | 3.01035 | 3.39668E-05 | 0.22458 |
| 491912.8 | 3608444.92 | 257671.8221 | 0.15033 | 1.56146 | 1.76185E-05 | 0.15034 |
| 491917.89 | 3608432.47 | 263360.5712 | 0.15364 | 1.71251 | 1.93228E-05 | 0.15366 |

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|---|---|---|---|---|---|---|
| 491921.29 | 3608418.89 | 272794.7326 | 0.15915 | 1.91468 | 2.16040E-05 | 0.15917 |
| 491926.95 | 3608408.14 | 268804.5308 | 0.15682 | 2.05708 | 2.32107E-05 | 0.15684 |
| 491930.91 | 3608396.25 | 268530.5384 | 0.15666 | 2.25717 | 2.54684E-05 | 0.15669 |
| 491950.72 | 3608425.12 | 194646.6309 | 0.11356 | 1.54420 | 1.74237E-05 | 0.11357 |
| 491954.11 | 3608416.06 | 196618.6307 | 0.11471 | 1.64752 | 1.85895E-05 | 0.11473 |
| 491959.21 | 3608404.74 | 195737.5449 | 0.11419 | 1.77690 | 2.00493E-05 | 0.11421 |
| 491984.11 | 3608467.56 | 110109.8527 | 0.06424 | 0.91756 | 1.03531E-05 | 0.06425 |
| 491987.5 | 3608453.98 | 118307.1477 | 0.06902 | 1.01343 | 1.14349E-05 | 0.06903 |
| 491993.16 | 3608442.66 | 121481.4834 | 0.07087 | 1.08708 | 1.22659E-05 | 0.07088 |
| 491998.26 | 3608432.47 | 123421.6186 | 0.07200 | 1.15656 | 1.30498E-05 | 0.07202 |
| 492002.22 | 3608421.15 | 126246.5201 | 0.07365 | 1.24684 | 1.40685E-05 | 0.07367 |
| 492012.41 | 3608475.49 | 83621.49564 | 0.04878 | 0.77086 | 8.69786E-06 | 0.04879 |
| 492015.24 | 3608463.6 | 89538.12932 | 0.05224 | 0.83799 | 9.45531E-06 | 0.05225 |
| 492020.9 | 3608451.15 | 93343.85437 | 0.05446 | 0.90443 | 1.02050E-05 | 0.05447 |
| 492024.29 | 3608441.53 | 96373.73261 | 0.05622 | 0.96222 | 1.08570E-05 | 0.05624 |
| 492028.25 | 3608428.51 | 100102.7559 | 0.05840 | 1.04776 | 1.18222E-05 | 0.05841 |
| 492037.31 | 3608486.24 | 64997.07485 | 0.03792 | 0.64922 | 7.32536E-06 | 0.03793 |
| 492042.4 | 3608472.09 | 70003.93619 | 0.04084 | 0.70953 | 8.00586E-06 | 0.04085 |
| 492046.36 | 3608461.34 | 73396.40947 | 0.04282 | 0.75843 | 8.55761E-06 | 0.04283 |
| 492050.89 | 3608450.58 | 76111.04301 | 0.04440 | 0.80837 | 9.12110E-06 | 0.04441 |
| 492055.42 | 3608440.4 | 78120.56521 | 0.04558 | 0.85687 | 9.66834E-06 | 0.04559 |
| 492065.61 | 3608493.6 | 51730.61634 | 0.03018 | 0.56015 | 6.32035E-06 | 0.03019 |
| 492069 | 3608481.15 | 55673.63012 | 0.03248 | 0.60579 | 6.83533E-06 | 0.03249 |
| 492075.23 | 3608469.26 | 58198.33458 | 0.03395 | 0.64600 | 7.28903E-06 | 0.03396 |
| 492078.06 | 3608457.38 | 61580.37877 | 0.03593 | 0.69626 | 7.85613E-06 | 0.03593 |
| 492082.59 | 3608446.62 | 63614.62687 | 0.03711 | 0.73928 | 8.34154E-06 | 0.03712 |
| 491873.18 | 3608334.56 | 510026.4393 | 0.29755 | 7.44433 | 8.39968E-05 | 0.29763 |
| 491929.78 | 3608349.84 | 275582.9614 | 0.16078 | 3.59829 | 4.06007E-05 | 0.16082 |
| 491879.97 | 3608317.02 | 336657.7205 | 0.19641 | 7.99283 | 9.01857E-05 | 0.19650 |
| 491893.22 | 3608305.33 | 244539.0944 | 0.14266 | 7.09578 | 8.00640E-05 | 0.14274 |
| 491889.89 | 3608289.35 | 180966.3293 | 0.10558 | 7.41382 | 8.36525E-05 | 0.10566 |
| 491907.21 | 3608277.37 | 138377.9598 | 0.08073 | 6.01035 | 6.78167E-05 | 0.08080 |
| 491909.87 | 3608246.74 | 79154.74331 | 0.04618 | 4.98056 | 5.61973E-05 | 0.04624 |
| 491914.53 | 3608232.76 | 62103.64315 | 0.03623 | 4.32670 | 4.88196E-05 | 0.03628 |
| 491920.52 | 3608219.44 | 50060.99609 | 0.02921 | 3.72852 | 4.20701E-05 | 0.02925 |
| 491923.85 | 3608203.46 | 38703.0525 | 0.02258 | 3.15801 | 3.56329E-05 | 0.02262 |
| 491922.52 | 3608187.48 | 29639.67512 | 0.01729 | 2.68938 | 3.03451E-05 | 0.01732 |
| 491933.84 | 3608176.16 | 26152.75972 | 0.01526 | 2.31799 | 2.61546E-05 | 0.01528 |
| 491936.5 | 3608332.63 | 234523.5732 | 0.13682 | 3.92068 | 4.42383E-05 | 0.13687 |
| 491945.82 | 3608306.66 | 173169.8634 | 0.10103 | 4.13765 | 4.66865E-05 | 0.10107 |
| 491948.49 | 3608292.02 | 145064.0697 | 0.08463 | 4.17470 | 4.71045E-05 | 0.08468 |
| 491954.48 | 3608266.71 | 103224.5835 | 0.06022 | 3.92112 | 4.42433E-05 | 0.06027 |
| 491965.8 | 3608249.4 | 80108.96105 | 0.04674 | 3.44176 | 3.88345E-05 | 0.04677 |
| 491959.81 | 3608230.76 | 62686.59318 | 0.03657 | 3.27610 | 3.69653E-05 | 0.03661 |

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| 491973.12 | 3608219.44 | 53627.38352 | 0.03129 | 2.85414 | 3.22042E-05 | 0.03132 |
| 491965.13 | 3608198.8 | 40196.10183 | 0.02345 | 2.57399 | 2.90432E-05 | 0.02348 |
| 491987.11 | 3608190.14 | 36888.98902 | 0.02152 | 2.21423 | 2.49839E-05 | 0.02155 |
| 491975.79 | 3608366.59 | 178873.4984 | 0.10435 | 2.25235 | 2.54140E-05 | 0.10438 |
| 491980.45 | 3608353.27 | 169371.4764 | 0.09881 | 2.42270 | 2.73361E-05 | 0.09884 |
| 491988.44 | 3608337.29 | 152041.2074 | 0.08870 | 2.55377 | 2.88150E-05 | 0.08873 |
| 491991.77 | 3608319.32 | 136973.1522 | 0.07991 | 2.73973 | 3.09133E-05 | 0.07994 |
| 492001.09 | 3608294.68 | 110325.6905 | 0.06436 | 2.77387 | 3.12985E-05 | 0.06440 |
| 492006.41 | 3608282.03 | 97363.99563 | 0.05680 | 2.72184 | 3.07114E-05 | 0.05683 |
| 492013.07 | 3608266.05 | 82663.1572 | 0.04823 | 2.61058 | 2.94560E-05 | 0.04826 |
| 492013.07 | 3608251.4 | 72289.32148 | 0.04217 | 2.56586 | 2.89514E-05 | 0.04220 |
| 492028.39 | 3608241.41 | 62887.85268 | 0.03669 | 2.30116 | 2.59647E-05 | 0.03671 |
| 492019.07 | 3608222.77 | 53476.99655 | 0.03120 | 2.28757 | 2.58114E-05 | 0.03122 |
| 492045.7 | 3608210.78 | 45452.49661 | 0.02652 | 1.92083 | 2.16733E-05 | 0.02654 |
| 492031.05 | 3608385.23 | 112727.5006 | 0.06577 | 1.43445 | 1.61854E-05 | 0.06578 |
| 492035.71 | 3608369.92 | 110781.352 | 0.06463 | 1.55699 | 1.75680E-05 | 0.06465 |
| 492027.06 | 3608353.27 | 117475.215 | 0.06854 | 1.81736 | 2.05059E-05 | 0.06856 |
| 492046.36 | 3608339.96 | 100944.5021 | 0.05889 | 1.75203 | 1.97687E-05 | 0.05891 |
| 492040.37 | 3608324.64 | 101087.0358 | 0.05897 | 1.94963 | 2.19983E-05 | 0.05900 |
| 492057.02 | 3608313.32 | 87983.27103 | 0.05133 | 1.84423 | 2.08090E-05 | 0.05135 |
| 492055.69 | 3608297.34 | 82983.20924 | 0.04841 | 1.94539 | 2.19505E-05 | 0.04843 |
| 492059.02 | 3608282.03 | 75410.62761 | 0.04399 | 1.96082 | 2.21246E-05 | 0.04402 |
| 492069.67 | 3608270.04 | 67070.83152 | 0.03913 | 1.86581 | 2.10525E-05 | 0.03915 |
| 492061.68 | 3608253.4 | 62148.13063 | 0.03626 | 1.94735 | 2.19726E-05 | 0.03628 |
| 492078.32 | 3608241.41 | 53934.29894 | 0.03147 | 1.76457 | 1.99102E-05 | 0.03149 |
| 492079.66 | 3608226.76 | 48297.83936 | 0.02818 | 1.71233 | 1.93208E-05 | 0.02820 |
| 492069.51 | 3608395.3 | 84466.80709 | 0.04928 | 1.11315 | 1.25600E-05 | 0.04929 |
| 492076.17 | 3608375.99 | 83704.79149 | 0.04883 | 1.22143 | 1.37818E-05 | 0.04885 |
| 492085.49 | 3608364.01 | 79670.90896 | 0.04648 | 1.25216 | 1.41285E-05 | 0.04649 |
| 492102.14 | 3608406.62 | 66659.39687 | 0.03889 | 0.89809 | 1.01334E-05 | 0.03890 |
| 492129.44 | 3608410.61 | 56135.98193 | 0.03275 | 0.78540 | 8.86192E-06 | 0.03276 |
| 492095.48 | 3608352.69 | 75074.61459 | 0.04380 | 1.26584 | 1.42829E-05 | 0.04381 |
| 492094.15 | 3608336.04 | 74769.00478 | 0.04362 | 1.37757 | 1.55436E-05 | 0.04364 |
| 492135.43 | 3608348.69 | 59822.0277 | 0.03490 | 1.06697 | 1.20390E-05 | 0.03491 |
| 492101.47 | 3608312.74 | 68685.98252 | 0.04007 | 1.44695 | 1.63264E-05 | 0.04009 |
| 492120.78 | 3608244.15 | 47515.56367 | 0.02772 | 1.43698 | 1.62139E-05 | 0.02774 |
| 492106.8 | 3608297.42 | 63920.32042 | 0.03729 | 1.46755 | 1.65588E-05 | 0.03731 |
| 492168.06 | 3608256.14 | 42321.71042 | 0.02469 | 1.15696 | 1.30544E-05 | 0.02470 |
| 491832.47 | 3608106.99 | 4180.27461 | 0.00244 | 0.82048 | 9.25774E-06 | 0.00245 |
| 491853.78 | 3608116.31 | 5792.22388 | 0.00338 | 1.01929 | 1.15010E-05 | 0.00339 |
| 491874.42 | 3608123.64 | 7782.89246 | 0.00454 | 1.19844 | 1.35224E-05 | 0.00455 |
| 491899.72 | 3608128.96 | 10460.46231 | 0.00610 | 1.34443 | 1.51696E-05 | 0.00612 |
| 491836.47 | 3608093.01 | 3710.77936 | 0.00216 | 0.68642 | 7.74510E-06 | 0.00217 |
| 491877.09 | 3608106.33 | 6350.14878 | 0.00370 | 0.95334 | 1.07568E-05 | 0.00372 |

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| 491905.05 | 3608118.98 | 9510.661 | 0.00555 | 1.19114 | 1.34400E-05 | 0.00556 |
| 491907.71 | 3608101.66 | 7734.16153 | 0.00451 | 0.96262 | 1.08616E-05 | 0.00452 |
| 491883.74 | 3608091.01 | 5569.59303 | 0.00325 | 0.79462 | 8.96596E-06 | 0.00326 |
| 491848.45 | 3608065.04 | 3079.74148 | 0.00180 | 0.50327 | 5.67856E-06 | 0.00180 |
| 491853.12 | 3608053.06 | 2845.00857 | 0.00166 | 0.44410 | 5.01092E-06 | 0.00166 |
| 491873.09 | 3608063.05 | 3716.66742 | 0.00217 | 0.54139 | 6.10868E-06 | 0.00217 |
| 491909.71 | 3608072.37 | 5512.02895 | 0.00322 | 0.67690 | 7.63768E-06 | 0.00322 |
| 491921.03 | 3608059.05 | 5157.77157 | 0.00301 | 0.59639 | 6.72926E-06 | 0.00302 |
| 491925.69 | 3608040.41 | 4365.67123 | 0.00255 | 0.49036 | 5.53289E-06 | 0.00255 |
| 491856.44 | 3608031.75 | 2391.11038 | 0.00139 | 0.35189 | 3.97049E-06 | 0.00140 |
| 491867.1 | 3608010.44 | 2147.01462 | 0.00125 | 0.29200 | 3.29473E-06 | 0.00126 |
| 491875.09 | 3607976.49 | 1718.34971 | 0.00100 | 0.21562 | 2.43291E-06 | 0.00100 |
| 491918.37 | 3607991.8 | 2607.50294 | 0.00152 | 0.28963 | 3.26799E-06 | 0.00152 |
| 491945 | 3608000.46 | 3347.42556 | 0.00195 | 0.34252 | 3.86476E-06 | 0.00196 |
| 491935.09 | 3608141.53 | 15811.72963 | 0.00922 | 1.58326 | 1.78644E-05 | 0.00924 |
| 491960.9 | 3608152.59 | 20885.93528 | 0.01218 | 1.72935 | 1.95128E-05 | 0.01220 |
| 491988.54 | 3608164.57 | 26680.53337 | 0.01557 | 1.81216 | 2.04472E-05 | 0.01559 |
| 491946.15 | 3608114.81 | 11726.3336 | 0.00684 | 1.17209 | 1.32251E-05 | 0.00685 |
| 491988.54 | 3608129.55 | 17191.33706 | 0.01003 | 1.33436 | 1.50560E-05 | 0.01004 |
| 492018.04 | 3608107.44 | 14609.94337 | 0.00852 | 1.06121 | 1.19740E-05 | 0.00854 |
| 491955.37 | 3608089 | 8955.75981 | 0.00522 | 0.88806 | 1.00203E-05 | 0.00523 |
| 491963.66 | 3608059.51 | 6685.43509 | 0.00390 | 0.65486 | 7.38900E-06 | 0.00391 |
| 491984.86 | 3608059.51 | 7477.34499 | 0.00436 | 0.67462 | 7.61196E-06 | 0.00437 |
| 492031.86 | 3608066.89 | 9871.96109 | 0.00576 | 0.74218 | 8.37426E-06 | 0.00577 |
| 492020.8 | 3608040.16 | 7216.79234 | 0.00421 | 0.58284 | 6.57637E-06 | 0.00422 |
| 491977.49 | 3608027.26 | 5172.79373 | 0.00302 | 0.48467 | 5.46869E-06 | 0.00302 |
| 491983.94 | 3608007.9 | 4445.64427 | 0.00259 | 0.40747 | 4.59762E-06 | 0.00260 |
| 492044.76 | 3608018.04 | 6426.81543 | 0.00375 | 0.49104 | 5.54056E-06 | 0.00375 |
| 492048.45 | 3608001.45 | 5605.04851 | 0.00327 | 0.42857 | 4.83569E-06 | 0.00327 |
| 491999.6 | 3607989.47 | 4066.56556 | 0.00237 | 0.35545 | 4.01066E-06 | 0.00238 |
| 492038.31 | 3608171.95 | 30870.0028 | 0.01801 | 1.63629 | 1.84628E-05 | 0.01803 |
| 492047.53 | 3608155.36 | 26046.82328 | 0.01520 | 1.43556 | 1.61979E-05 | 0.01521 |
| 492086.23 | 3608187.61 | 34800.01113 | 0.02030 | 1.48031 | 1.67028E-05 | 0.02032 |
| 492095.45 | 3608171.03 | 29921.10786 | 0.01746 | 1.33609 | 1.50755E-05 | 0.01747 |
| 492053.98 | 3608123.1 | 18782.21306 | 0.01096 | 1.13753 | 1.28351E-05 | 0.01097 |
| 492109.27 | 3608145.22 | 23826.16581 | 0.01390 | 1.13313 | 1.27855E-05 | 0.01391 |
| 492058.59 | 3608100.06 | 14968.14869 | 0.00873 | 0.95426 | 1.07672E-05 | 0.00874 |
| 492123.1 | 3608113.89 | 18276.37331 | 0.01066 | 0.92760 | 1.04664E-05 | 0.01067 |
| 492135.08 | 3608094.53 | 15629.64783 | 0.00912 | 0.81189 | 9.16082E-06 | 0.00913 |
| 492076.1 | 3608065.04 | 11034.36032 | 0.00644 | 0.72072 | 8.13212E-06 | 0.00645 |
| 492085.31 | 3608030.02 | 8189.43118 | 0.00478 | 0.55127 | 6.22016E-06 | 0.00478 |
| 492139.69 | 3608065.96 | 12391.12724 | 0.00723 | 0.68060 | 7.67943E-06 | 0.00724 |
| 492139.69 | 3608212.5 | 37320.35401 | 0.02177 | 1.27558 | 1.43928E-05 | 0.02179 |
| 492183.92 | 3608227.24 | 35481.27135 | 0.02070 | 1.08028 | 1.21892E-05 | 0.02071 |

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| 492143.37 | 3608192.22 | 32542.94347 | 0.01899 | 1.20370 | 1.35817E-05 | 0.01900 |
| 492194.98 | 3608204.2 | 30785.83068 | 0.01796 | 1.01145 | 1.14125E-05 | 0.01797 |
| 492203.28 | 3608183.01 | 27032.74153 | 0.01577 | 0.94695 | 1.06847E-05 | 0.01578 |
| 492151.67 | 3608153.52 | 24592.58173 | 0.01435 | 1.03352 | 1.16615E-05 | 0.01436 |
| 492197.75 | 3608162.73 | 24382.24963 | 0.01422 | 0.91938 | 1.03737E-05 | 0.01423 |
| 492159.04 | 3608135.08 | 21371.48879 | 0.01247 | 0.93915 | 1.05967E-05 | 0.01248 |
| 492164.57 | 3608118.49 | 18861.03342 | 0.01100 | 0.86053 | 9.70964E-06 | 0.01101 |
| 492219.86 | 3608141.53 | 20767.73595 | 0.01212 | 0.80792 | 9.11602E-06 | 0.01213 |
| 492223.55 | 3608114.81 | 17605.82478 | 0.01027 | 0.73113 | 8.24958E-06 | 0.01028 |
| 492231.84 | 3608098.22 | 15772.55758 | 0.00920 | 0.67306 | 7.59435E-06 | 0.00921 |
| 492170.1 | 3608097.3 | 16098.24566 | 0.00939 | 0.76825 | 8.66841E-06 | 0.00940 |
| 492180.24 | 3608077.94 | 13955.35376 | 0.00814 | 0.68315 | 7.70820E-06 | 0.00815 |
| 492183.92 | 3608055.83 | 11864.67278 | 0.00692 | 0.60414 | 6.81671E-06 | 0.00693 |
| 492218.94 | 3608068.73 | 13103.09219 | 0.00764 | 0.60903 | 6.87188E-06 | 0.00765 |
| 492246.59 | 3608230.01 | 29459.61125 | 0.01719 | 0.84615 | 9.54739E-06 | 0.01720 |
| 492239.22 | 3608207.89 | 27744.96499 | 0.01619 | 0.86205 | 9.72679E-06 | 0.01620 |
| 492241.98 | 3608194.07 | 25986.19077 | 0.01516 | 0.84196 | 9.50011E-06 | 0.01517 |
| 492246.59 | 3608176.56 | 23745.69812 | 0.01385 | 0.80800 | 9.11693E-06 | 0.01386 |
| 492257.65 | 3608163.65 | 21811.33647 | 0.01272 | 0.76159 | 8.59327E-06 | 0.01273 |
| 492261.34 | 3608145.22 | 19794.15036 | 0.01155 | 0.72336 | 8.16191E-06 | 0.01156 |
| 492266.87 | 3608124.02 | 17592.10804 | 0.01026 | 0.67343 | 7.59853E-06 | 0.01027 |
| 492272.39 | 3608108.36 | 16065.59041 | 0.00937 | 0.63341 | 7.14697E-06 | 0.00938 |
| 492277.92 | 3608094.53 | 14809.70621 | 0.00864 | 0.59758 | 6.74269E-06 | 0.00865 |
| 492285.3 | 3608081.63 | 13701.00363 | 0.00799 | 0.56237 | 6.34540E-06 | 0.00800 |
| 491685.34 | 3608168.26 | 1905.1755 | 0.00111 | 0.95379 | 1.07619E-05 | 0.00112 |
| 491689.95 | 3608145.22 | 1616.14261 | 0.00094 | 0.68053 | 7.67864E-06 | 0.00095 |
| 491694.56 | 3608131.4 | 1490.70102 | 0.00087 | 0.57313 | 6.46681E-06 | 0.00088 |
| 491698.24 | 3608118.49 | 1381.51988 | 0.00081 | 0.49193 | 5.55061E-06 | 0.00081 |
| 491701.01 | 3608105.59 | 1277.01571 | 0.00075 | 0.42458 | 4.79067E-06 | 0.00075 |
| 491703.77 | 3608093.61 | 1191.86472 | 0.00070 | 0.37342 | 4.21342E-06 | 0.00070 |
| 491707.46 | 3608079.79 | 1107.7138 | 0.00065 | 0.32522 | 3.66956E-06 | 0.00065 |
| 491713.91 | 3608070.57 | 1083.94065 | 0.00063 | 0.30182 | 3.40553E-06 | 0.00064 |
| 491715.75 | 3608058.59 | 1012.41747 | 0.00059 | 0.26913 | 3.03668E-06 | 0.00059 |
| 491720.36 | 3608046.61 | 964.20218 | 0.00056 | 0.24322 | 2.74433E-06 | 0.00057 |
| 491732.34 | 3608014.36 | 849.87505 | 0.00050 | 0.18861 | 2.12815E-06 | 0.00050 |
| 491735.11 | 3608002.37 | 804.64468 | 0.00047 | 0.17194 | 1.94005E-06 | 0.00047 |
| 491735.11 | 3607991.32 | 754.55705 | 0.00044 | 0.15735 | 1.77543E-06 | 0.00044 |
| 491744.32 | 3607980.26 | 748.06203 | 0.00044 | 0.14774 | 1.66700E-06 | 0.00044 |
| 491747.09 | 3607967.35 | 707.05832 | 0.00041 | 0.13494 | 1.52257E-06 | 0.00041 |
| 491755.38 | 3607954.45 | 690.7191 | 0.00040 | 0.12526 | 1.41335E-06 | 0.00040 |
| 491759.07 | 3607939.71 | 651.23376 | 0.00038 | 0.11385 | 1.28461E-06 | 0.00038 |
| 491636.5 | 3608156.28 | 1317.55011 | 0.00077 | 0.61405 | 6.92853E-06 | 0.00078 |
| 491618.06 | 3608148.91 | 1155.56399 | 0.00067 | 0.50736 | 5.72471E-06 | 0.00068 |
| 491598.71 | 3608143.38 | 1035.22776 | 0.00060 | 0.42946 | 4.84574E-06 | 0.00061 |

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| 491579.36 | 3608134.16 | 915.03025 | 0.00053 | 0.35221 | 3.97410E-06 | 0.00054 |
| 491565.53 | 3608132.32 | 865.75646 | 0.00051 | 0.32156 | 3.62827E-06 | 0.00051 |
| 491548.94 | 3608123.1 | 781.22765 | 0.00046 | 0.27180 | 3.06681E-06 | 0.00046 |
| 491654.01 | 3608119.42 | 1093.05063 | 0.00064 | 0.41940 | 4.73223E-06 | 0.00064 |
| 491663.22 | 3608133.24 | 1261.55124 | 0.00074 | 0.51410 | 5.80076E-06 | 0.00074 |
| 491657.69 | 3608106.51 | 1016.55434 | 0.00059 | 0.36746 | 4.14617E-06 | 0.00060 |
| 491663.22 | 3608094.53 | 961.6658 | 0.00056 | 0.32912 | 3.71357E-06 | 0.00056 |
| 491674.28 | 3608094.53 | 1013.91396 | 0.00059 | 0.34110 | 3.84874E-06 | 0.00060 |
| 491681.65 | 3608086.24 | 996.05117 | 0.00058 | 0.31991 | 3.60965E-06 | 0.00058 |
| 491686.26 | 3608072.42 | 932.10878 | 0.00054 | 0.28186 | 3.18032E-06 | 0.00055 |
| 491663.22 | 3608078.87 | 868.71747 | 0.00051 | 0.28068 | 3.16700E-06 | 0.00051 |
| 491671.52 | 3608072.42 | 865.98489 | 0.00051 | 0.27000 | 3.04650E-06 | 0.00051 |
| 491676.12 | 3608058.59 | 812.08348 | 0.00047 | 0.23991 | 2.70698E-06 | 0.00048 |
| 491678.89 | 3608048.45 | 773.86256 | 0.00045 | 0.22037 | 2.48651E-06 | 0.00045 |
| 491690.87 | 3608053.98 | 850.17689 | 0.00050 | 0.23929 | 2.69999E-06 | 0.00050 |
| 491695.48 | 3608035.55 | 779.20615 | 0.00045 | 0.20522 | 2.31556E-06 | 0.00046 |
| 491701.93 | 3608024.49 | 755.88226 | 0.00044 | 0.18973 | 2.14079E-06 | 0.00044 |
| 491624.52 | 3608121.26 | 982.59795 | 0.00057 | 0.38106 | 4.29962E-06 | 0.00058 |
| 491615.3 | 3608116.65 | 923.03046 | 0.00054 | 0.34920 | 3.94014E-06 | 0.00054 |
| 491603.32 | 3608112.97 | 867.25904 | 0.00051 | 0.31999 | 3.61055E-06 | 0.00051 |
| 491590.42 | 3608107.44 | 806.51646 | 0.00047 | 0.28739 | 3.24271E-06 | 0.00047 |
| 491582.12 | 3608104.67 | 774.91834 | 0.00045 | 0.27053 | 3.05248E-06 | 0.00046 |
| 491567.38 | 3608101.91 | 732.68088 | 0.00043 | 0.24793 | 2.79747E-06 | 0.00043 |
| 491553.55 | 3608094.53 | 678.74608 | 0.00040 | 0.21986 | 2.48075E-06 | 0.00040 |
| 491560 | 3608079.79 | 637.30235 | 0.00037 | 0.20076 | 2.26524E-06 | 0.00037 |
| 491571.98 | 3608083.47 | 669.156 | 0.00039 | 0.21644 | 2.44216E-06 | 0.00039 |
| 491585.81 | 3608088.08 | 711.15424 | 0.00041 | 0.23709 | 2.67516E-06 | 0.00042 |
| 491599.63 | 3608094.53 | 766.78998 | 0.00045 | 0.26452 | 2.98467E-06 | 0.00045 |
| 491614.38 | 3608097.3 | 814.843 | 0.00048 | 0.28675 | 3.23549E-06 | 0.00048 |
| 491626.36 | 3608102.83 | 877.45895 | 0.00051 | 0.31637 | 3.56971E-06 | 0.00052 |
| 491630.97 | 3608077.94 | 763.464 | 0.00045 | 0.25250 | 2.84904E-06 | 0.00045 |
| 491613.46 | 3608071.49 | 696.20751 | 0.00041 | 0.22558 | 2.54529E-06 | 0.00041 |
| 491635.57 | 3608062.28 | 706.00578 | 0.00041 | 0.22214 | 2.50648E-06 | 0.00041 |
| 491647.56 | 3608065.04 | 748.59786 | 0.00044 | 0.23548 | 2.65700E-06 | 0.00044 |
| 491568.3 | 3608046.61 | 544.90445 | 0.00032 | 0.16037 | 1.80951E-06 | 0.00032 |
| 491556.32 | 3608038.32 | 510.16707 | 0.00030 | 0.14559 | 1.64274E-06 | 0.00030 |
| 491572.91 | 3608032.79 | 512.18472 | 0.00030 | 0.14698 | 1.65842E-06 | 0.00030 |
| 491594.1 | 3608048.45 | 581.94028 | 0.00034 | 0.17577 | 1.98327E-06 | 0.00034 |
| 491589.49 | 3608035.55 | 537.61888 | 0.00031 | 0.15714 | 1.77306E-06 | 0.00032 |
| 491608.85 | 3608039.24 | 573.67335 | 0.00033 | 0.17041 | 1.92279E-06 | 0.00034 |
| 491612.53 | 3608025.41 | 537.6352 | 0.00031 | 0.15465 | 1.74497E-06 | 0.00032 |
| 491625.44 | 3608040.16 | 603.03153 | 0.00035 | 0.17932 | 2.02333E-06 | 0.00035 |
| 491636.5 | 3608029.1 | 586.7769 | 0.00034 | 0.16872 | 1.90372E-06 | 0.00034 |
| 491654.01 | 3608027.26 | 616.81819 | 0.00036 | 0.17328 | 1.95517E-06 | 0.00036 |

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| 491643.87 | 3608011.59 | 547.07422 | 0.00032 | 0.14986 | 1.69092E-06 | 0.00032 |
| 491667.83 | 3608015.28 | 609.90493 | 0.00036 | 0.16255 | 1.83410E-06 | 0.00036 |
| 491689.03 | 3607995 | 601.27188 | 0.00035 | 0.14560 | 1.64285E-06 | 0.00035 |
| 491681.65 | 3607976.57 | 528.80566 | 0.00031 | 0.12538 | 1.41470E-06 | 0.00031 |
| 491704.69 | 3607986.71 | 621.67149 | 0.00036 | 0.14150 | 1.59659E-06 | 0.00036 |
| 491713.91 | 3607971.96 | 603.37593 | 0.00035 | 0.12953 | 1.46153E-06 | 0.00035 |
| 491725.89 | 3607958.14 | 598.23444 | 0.00035 | 0.12042 | 1.35874E-06 | 0.00035 |
| 491711.15 | 3607949.84 | 531.94139 | 0.00031 | 0.11043 | 1.24602E-06 | 0.00031 |
| 491729.58 | 3607943.39 | 565.80717 | 0.00033 | 0.10966 | 1.23733E-06 | 0.00033 |
| 491714.83 | 3607935.1 | 504.2339 | 0.00029 | 0.10089 | 1.13837E-06 | 0.00030 |
| 491724.97 | 3607923.12 | 500.55027 | 0.00029 | 0.09521 | 1.07429E-06 | 0.00029 |
| 491737.87 | 3607928.65 | 548.86938 | 0.00032 | 0.10112 | 1.14097E-06 | 0.00032 |
| 491735.11 | 3607910.22 | 495.12574 | 0.00029 | 0.08948 | 1.00963E-06 | 0.00029 |
| 491558.16 | 3608010.67 | 446.76664 | 0.00026 | 0.12114 | 1.36686E-06 | 0.00026 |
| 491579.36 | 3607998.69 | 437.37975 | 0.00026 | 0.11796 | 1.33098E-06 | 0.00026 |
| 491595.95 | 3608003.3 | 462.03995 | 0.00027 | 0.12660 | 1.42847E-06 | 0.00027 |
| 491613.46 | 3607995.92 | 463.12885 | 0.00027 | 0.12513 | 1.41188E-06 | 0.00027 |
| 491599.63 | 3607983.94 | 423.43448 | 0.00025 | 0.11194 | 1.26306E-06 | 0.00025 |
| 491623.59 | 3607979.33 | 437.88119 | 0.00026 | 0.11409 | 1.28731E-06 | 0.00026 |
| 491640.18 | 3607983.02 | 467.47351 | 0.00027 | 0.12094 | 1.36461E-06 | 0.00027 |
| 491660.46 | 3607968.28 | 466.12239 | 0.00027 | 0.11369 | 1.28280E-06 | 0.00027 |
| 491659.54 | 3607951.69 | 429.57667 | 0.00025 | 0.10173 | 1.14785E-06 | 0.00025 |
| 491677.05 | 3607950.77 | 457.63343 | 0.00027 | 0.10432 | 1.17708E-06 | 0.00027 |
| 491682.58 | 3607937.86 | 441.04738 | 0.00026 | 0.09695 | 1.09392E-06 | 0.00026 |
| 491670.6 | 3607928.65 | 403.26628 | 0.00024 | 0.08970 | 1.01211E-06 | 0.00024 |
| 491694.56 | 3607921.27 | 430.62047 | 0.00025 | 0.08923 | 1.00681E-06 | 0.00025 |
| 491682.58 | 3607913.9 | 396.2858 | 0.00023 | 0.08368 | 9.44189E-07 | 0.00023 |
| 491682.58 | 3607901.92 | 376.39613 | 0.00022 | 0.07800 | 8.80099E-07 | 0.00022 |
| 491705.62 | 3607902.84 | 416.61693 | 0.00024 | 0.08134 | 9.17786E-07 | 0.00024 |
| 491561.62 | 3607964.09 | 361.52381 | 0.00021 | 0.09104 | 1.02723E-06 | 0.00021 |
| 491578.12 | 3607959.66 | 363.39121 | 0.00021 | 0.09175 | 1.03525E-06 | 0.00021 |
| 491573.42 | 3607943.99 | 336.42249 | 0.00020 | 0.08283 | 9.34598E-07 | 0.00020 |
| 491600.84 | 3607959.66 | 378.65901 | 0.00022 | 0.09601 | 1.08331E-06 | 0.00022 |
| 491591.44 | 3607944.77 | 347.74317 | 0.00020 | 0.08613 | 9.71833E-07 | 0.00020 |
| 491603.97 | 3607934.59 | 340.58815 | 0.00020 | 0.08299 | 9.36403E-07 | 0.00020 |
| 491615.72 | 3607947.91 | 370.81638 | 0.00022 | 0.09183 | 1.03615E-06 | 0.00022 |
| 491636.09 | 3607933.02 | 366.04732 | 0.00021 | 0.08695 | 9.81085E-07 | 0.00021 |
| 491625.12 | 3607917.35 | 332.03167 | 0.00019 | 0.07785 | 8.78407E-07 | 0.00019 |
| 491644.71 | 3607918.92 | 353.35695 | 0.00021 | 0.08111 | 9.15191E-07 | 0.00021 |
| 491642.36 | 3607896.99 | 320.10969 | 0.00019 | 0.07132 | 8.04727E-07 | 0.00019 |
| 491658.03 | 3607905.6 | 348.86545 | 0.00020 | 0.07669 | 8.65318E-07 | 0.00020 |
| 491665.08 | 3607887.59 | 331.99941 | 0.00019 | 0.07005 | 7.90397E-07 | 0.00019 |
| 491647.06 | 3607883.67 | 307.77096 | 0.00018 | 0.06677 | 7.53388E-07 | 0.00018 |
| 491564.8 | 3607922.84 | 303.4827 | 0.00018 | 0.07232 | 8.16010E-07 | 0.00018 |

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| 491587.52 | 3607913.44 | 301.75849 | 0.00018 | 0.07149 | 8.06645E-07 | 0.00018 |
| 491573.42 | 3607903.25 | 283.1073 | 0.00017 | 0.06604 | 7.45151E-07 | 0.00017 |
| 491607.11 | 3607896.2 | 291.63159 | 0.00017 | 0.06721 | 7.58352E-07 | 0.00017 |
| 491603.97 | 3607878.97 | 270.49998 | 0.00016 | 0.06106 | 6.88960E-07 | 0.00016 |
| 491621.99 | 3607877.4 | 279.96461 | 0.00016 | 0.06223 | 7.02161E-07 | 0.00016 |
| 491892.25 | 3607962.79 | 1729.53705 | 0.00101 | 0.20211 | 2.28047E-06 | 0.00101 |
| 491943.96 | 3607975.32 | 2655.68093 | 0.00155 | 0.26865 | 3.03127E-06 | 0.00155 |
| 491586.79 | 3608712.31 | 8409.91149 | 0.00491 | 0.25537 | 2.88142E-06 | 0.00491 |
| 491579.14 | 3608732.72 | 7291.76171 | 0.00425 | 0.22345 | 2.52126E-06 | 0.00426 |
| 491579.14 | 3608751.86 | 6533.0195 | 0.00381 | 0.19896 | 2.24493E-06 | 0.00381 |
| 491563.83 | 3608778.64 | 5465.98803 | 0.00319 | 0.17032 | 1.92178E-06 | 0.00319 |
| 491558.73 | 3608797.78 | 4905.57279 | 0.00286 | 0.15360 | 1.73312E-06 | 0.00286 |
| 491545.97 | 3608824.57 | 4212.34249 | 0.00246 | 0.13396 | 1.51151E-06 | 0.00246 |
| 491543.42 | 3608838.6 | 3929.01444 | 0.00229 | 0.12516 | 1.41222E-06 | 0.00229 |
| 491534.49 | 3608869.21 | 3382.56676 | 0.00197 | 0.10868 | 1.22627E-06 | 0.00197 |
| 491635.26 | 3608725.07 | 8556.303 | 0.00499 | 0.23968 | 2.70439E-06 | 0.00499 |
| 491665.88 | 3608731.45 | 8360.83188 | 0.00488 | 0.23355 | 2.63522E-06 | 0.00488 |
| 491654.4 | 3608756.96 | 6906.22993 | 0.00403 | 0.19926 | 2.24832E-06 | 0.00403 |
| 491627.61 | 3608748.03 | 7224.74672 | 0.00421 | 0.20756 | 2.34197E-06 | 0.00422 |
| 491621.23 | 3608764.61 | 6439.38955 | 0.00376 | 0.18774 | 2.11833E-06 | 0.00376 |
| 491651.85 | 3608772.27 | 6214.64483 | 0.00363 | 0.18240 | 2.05808E-06 | 0.00363 |
| 491635.26 | 3608823.29 | 4517.60807 | 0.00264 | 0.13801 | 1.55721E-06 | 0.00264 |
| 491608.48 | 3608810.54 | 4835.62481 | 0.00282 | 0.14544 | 1.64105E-06 | 0.00282 |
| 491603.37 | 3608829.67 | 4336.69451 | 0.00253 | 0.13187 | 1.48793E-06 | 0.00253 |
| 491627.61 | 3608838.6 | 4143.13594 | 0.00242 | 0.12751 | 1.43874E-06 | 0.00242 |
| 491622.51 | 3608866.66 | 3564.66602 | 0.00208 | 0.11155 | 1.25865E-06 | 0.00208 |
| 491590.62 | 3608859.01 | 3701.20145 | 0.00216 | 0.11431 | 1.28980E-06 | 0.00216 |
| 491586.79 | 3608875.59 | 3404.77827 | 0.00199 | 0.10597 | 1.19569E-06 | 0.00199 |
| 491617.41 | 3608884.52 | 3257.20091 | 0.00190 | 0.10280 | 1.15993E-06 | 0.00190 |
| 491707.97 | 3608753.13 | 7153.25801 | 0.00417 | 0.20753 | 2.34163E-06 | 0.00418 |
| 491702.87 | 3608768.44 | 6396.431 | 0.00373 | 0.18982 | 2.14180E-06 | 0.00373 |
| 491696.49 | 3608791.4 | 5468.59705 | 0.00319 | 0.16695 | 1.88375E-06 | 0.00319 |
| 491688.84 | 3608805.43 | 4998.74356 | 0.00292 | 0.15457 | 1.74406E-06 | 0.00292 |
| 491683.74 | 3608834.77 | 4189.63762 | 0.00244 | 0.13298 | 1.50046E-06 | 0.00245 |
| 491674.81 | 3608851.36 | 3820.01121 | 0.00223 | 0.12236 | 1.38063E-06 | 0.00223 |
| 491669.71 | 3608874.32 | 3379.43532 | 0.00197 | 0.10986 | 1.23959E-06 | 0.00197 |
| 491667.15 | 3608903.66 | 2914.7126 | 0.00170 | 0.09656 | 1.08952E-06 | 0.00170 |
| 491741.14 | 3608758.23 | 6978.56924 | 0.00407 | 0.20192 | 2.27833E-06 | 0.00407 |
| 491733.49 | 3608772.27 | 6281.67673 | 0.00366 | 0.18683 | 2.10806E-06 | 0.00367 |
| 491727.11 | 3608797.78 | 5275.56965 | 0.00308 | 0.16283 | 1.83726E-06 | 0.00308 |
| 491720.73 | 3608809.26 | 4893.44238 | 0.00285 | 0.15316 | 1.72815E-06 | 0.00286 |
| 491711.8 | 3608833.5 | 4219.16689 | 0.00246 | 0.13521 | 1.52562E-06 | 0.00246 |
| 491706.7 | 3608855.18 | 3729.43269 | 0.00218 | 0.12169 | 1.37307E-06 | 0.00218 |
| 491701.6 | 3608871.77 | 3409.51209 | 0.00199 | 0.11253 | 1.26971E-06 | 0.00199 |

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|---|---|---|---|---|---|---|
| 491699.05 | 3608899.83 | 2955.05305 | 0.00172 | 0.09935 | 1.12100E-06 | 0.00173 |
| 491778.13 | 3608770.99 | 6583.73997 | 0.00384 | 0.18625 | 2.10152E-06 | 0.00384 |
| 491773.03 | 3608791.4 | 5700.1801 | 0.00333 | 0.16812 | 1.89695E-06 | 0.00333 |
| 491762.83 | 3608811.81 | 4952.10555 | 0.00289 | 0.15217 | 1.71698E-06 | 0.00289 |
| 491760.28 | 3608828.39 | 4468.7311 | 0.00261 | 0.14044 | 1.58463E-06 | 0.00261 |
| 491755.17 | 3608851.36 | 3900.00547 | 0.00228 | 0.12606 | 1.42238E-06 | 0.00228 |
| 491747.52 | 3608869.21 | 3518.43567 | 0.00205 | 0.11604 | 1.30932E-06 | 0.00205 |
| 491738.59 | 3608884.52 | 3229.67762 | 0.00188 | 0.10809 | 1.21961E-06 | 0.00189 |
| 491738.59 | 3608902.38 | 2954.26121 | 0.00172 | 0.10010 | 1.12946E-06 | 0.00172 |
| 491804.92 | 3608781.2 | 6318.52159 | 0.00369 | 0.17405 | 1.96386E-06 | 0.00369 |
| 491802.37 | 3608806.71 | 5337.54307 | 0.00311 | 0.15414 | 1.73921E-06 | 0.00312 |
| 491789.61 | 3608822.02 | 4788.76329 | 0.00279 | 0.14421 | 1.62717E-06 | 0.00280 |
| 491788.34 | 3608839.87 | 4305.57852 | 0.00251 | 0.13287 | 1.49922E-06 | 0.00251 |
| 491774.31 | 3608853.91 | 3917.0837 | 0.00229 | 0.12485 | 1.40872E-06 | 0.00229 |
| 491778.13 | 3608875.59 | 3499.89081 | 0.00204 | 0.11350 | 1.28066E-06 | 0.00204 |
| 491773.03 | 3608892.17 | 3197.355 | 0.00187 | 0.10568 | 1.19242E-06 | 0.00187 |
| 491770.48 | 3608916.41 | 2832.77258 | 0.00165 | 0.09553 | 1.07790E-06 | 0.00165 |
| 491848.29 | 3608793.95 | 5992.71087 | 0.00350 | 0.15787 | 1.78130E-06 | 0.00350 |
| 491845.74 | 3608815.64 | 5237.45045 | 0.00306 | 0.14361 | 1.62040E-06 | 0.00306 |
| 491835.54 | 3608834.77 | 4650.58333 | 0.00271 | 0.13316 | 1.50249E-06 | 0.00271 |
| 491829.16 | 3608859.01 | 4039.55505 | 0.00236 | 0.12055 | 1.36020E-06 | 0.00236 |
| 491824.06 | 3608874.32 | 3704.88695 | 0.00216 | 0.11337 | 1.27919E-06 | 0.00216 |
| 491824.06 | 3608890.9 | 3400.78112 | 0.00198 | 0.10597 | 1.19569E-06 | 0.00199 |
| 491820.23 | 3608904.93 | 3159.29467 | 0.00184 | 0.10030 | 1.13172E-06 | 0.00184 |
| 491818.95 | 3608924.07 | 2877.04023 | 0.00168 | 0.09309 | 1.05036E-06 | 0.00168 |
| 491817.68 | 3608940.65 | 2660.42732 | 0.00155 | 0.08740 | 9.86163E-07 | 0.00155 |
| 491873.81 | 3608822.02 | 5086.34504 | 0.00297 | 0.13605 | 1.53510E-06 | 0.00297 |
| 491864.88 | 3608842.43 | 4525.64689 | 0.00264 | 0.12605 | 1.42226E-06 | 0.00264 |
| 491859.77 | 3608864.11 | 4016.05242 | 0.00234 | 0.11590 | 1.30774E-06 | 0.00234 |
| 491855.95 | 3608878.14 | 3724.29971 | 0.00217 | 0.10990 | 1.24004E-06 | 0.00217 |
| 491849.57 | 3608899.83 | 3323.74804 | 0.00194 | 0.10134 | 1.14345E-06 | 0.00194 |
| 491857.22 | 3608915.14 | 3103.21069 | 0.00181 | 0.09528 | 1.07508E-06 | 0.00181 |
| 491869.98 | 3608930.44 | 2913.47447 | 0.00170 | 0.08953 | 1.01020E-06 | 0.00170 |
| 491890.39 | 3608932.99 | 2909.41727 | 0.00170 | 0.08770 | 9.89548E-07 | 0.00170 |
| 491915.9 | 3608818.19 | 5123.01474 | 0.00299 | 0.13148 | 1.48353E-06 | 0.00299 |
| 491914.63 | 3608838.6 | 4596.72161 | 0.00268 | 0.12148 | 1.37070E-06 | 0.00268 |
| 491904.42 | 3608855.18 | 4234.93498 | 0.00247 | 0.11528 | 1.30074E-06 | 0.00247 |
| 491903.14 | 3608874.32 | 3846.14771 | 0.00224 | 0.10735 | 1.21126E-06 | 0.00225 |
| 491895.49 | 3608897.28 | 3438.65333 | 0.00201 | 0.09929 | 1.12032E-06 | 0.00201 |
| 491915.9 | 3608899.83 | 3397.17383 | 0.00198 | 0.09661 | 1.09008E-06 | 0.00198 |
| 491936.31 | 3608902.38 | 3337.66685 | 0.00195 | 0.09379 | 1.05826E-06 | 0.00195 |
| 491952.89 | 3608910.03 | 3198.84616 | 0.00187 | 0.08973 | 1.01245E-06 | 0.00187 |
| 491966.93 | 3608922.79 | 3001.95003 | 0.00175 | 0.08465 | 9.55133E-07 | 0.00175 |
| 491923.55 | 3608947.03 | 2752.86059 | 0.00161 | 0.08160 | 9.20719E-07 | 0.00161 |

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|---|---|---|---|---|---|---|
| 491945.24 | 3608961.06 | 2590.66041 | 0.00151 | 0.07653 | 8.63513E-07 | 0.00151 |
| 491737.31 | 3608925.34 | 2646.50014 | 0.00154 | 0.09097 | 1.02644E-06 | 0.00154 |
| CONCUNIT ug/ | m^3 | 0 | 0.00000 | 0.00000 | 0.00000E+00 | 0.00000 |
| DEPUNIT g/m^ | 2 | 0 | 0.00000 | 0.00000 | 0.00000E+00 | 0.00000 |

## Moss Street

**Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Infant**

| | | |
|---|---|---|
| **Cancer Potency Factor:** | 1.1 | $(mg/kg\text{-}day)^{-1}$ |
| **Exposure Frequency** | 350 | days/year |
| **Averaging Period** | 25550 | days |

| Year | Unit DPM Concentration (ug/m3) | Age Sensitivty Factor | Daily Breathing Rate (L/kg-day) | Time At Home Factor | Exposure Duration (years) | Unit Risk Factor $(ug/m3)^{-1}$ |
|---|---|---|---|---|---|---|
| 3rd Trimester | 1 | 10 | 361 | 1 | 0.25 | 13.6 |
| 1 | 1 | 10 | 1090 | 1 | 1 | 164.2 |

Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines

## Moss Street

**No Mitigation at Sensitive Recptors**

**Estimated Cancer Risks from Construction DPM - Infant Receptors**

| X (m) | Y (m) | InfantCancer Risk (3rd Trimester) 2019 (/million) | Infant Cancer Risk (year 1) 2020 (/million) | Total Cancer Risk (/million) |
|---|---|---|---|---|
| 491856.94 | 3608423.76 | 7.119 | 85.975 | 93.09304 |
| 491770.82 | 3608296.56 | 0.948 | 11.445 | 12.39249 |
| 491786.69 | 3608300.4 | 1.908 | 23.046 | 24.95419 |
| 491777.07 | 3608270.58 | 0.426 | 5.142 | 5.56731 |
| 491794.39 | 3608275.87 | 0.808 | 9.756 | 10.56416 |
| 491789.88 | 3608254.44 | 0.350 | 4.226 | 4.57544 |
| 491793.88 | 3608239.79 | 0.254 | 3.063 | 3.31710 |
| 491796.54 | 3608225.81 | 0.191 | 2.305 | 2.49639 |
| 491799.2 | 3608213.16 | 0.153 | 1.845 | 1.99814 |
| 491804.53 | 3608198.51 | 0.126 | 1.516 | 1.64153 |
| 491835.16 | 3608317.03 | 4.470 | 53.991 | 58.46107 |
| 491837.82 | 3608303.71 | 3.065 | 37.015 | 40.07957 |
| 491843.81 | 3608287.73 | 1.947 | 23.513 | 25.45986 |
| 491851.14 | 3608274.41 | 1.387 | 16.754 | 18.14107 |
| 491863.07 | 3608247.22 | 0.754 | 9.110 | 9.86405 |
| 491867.68 | 3608231.55 | 0.548 | 6.614 | 7.16197 |
| 491875.05 | 3608218.65 | 0.442 | 5.332 | 5.77384 |
| 491878.74 | 3608195.61 | 0.291 | 3.510 | 3.80071 |
| 491885.19 | 3608177.18 | 0.221 | 2.669 | 2.89015 |
| 491807.78 | 3608183.63 | 0.102 | 1.227 | 1.32831 |
| 491812.39 | 3608167.97 | 0.084 | 1.018 | 1.10205 |
| 491819.76 | 3608146.77 | 0.068 | 0.820 | 0.88815 |
| 491840.03 | 3608155.06 | 0.097 | 1.171 | 1.26756 |
| 491868.6 | 3608170.73 | 0.170 | 2.053 | 2.22247 |
| 491865.26 | 3608414.36 | 6.644 | 80.244 | 86.88781 |
| 491867.52 | 3608403.04 | 6.799 | 82.115 | 88.91429 |

| Maximum Caner Risk |
|---|
| 93.1 |
| **SDAQMD threshold of significance** |
| 10 |
| **Exceed thresholds?** |
| Yes |

| | | | | |
|---|---|---|---|---|
| 491872.05 | 3608392.29 | 6.666 | 80.507 | 87.17259 |
| 491874.88 | 3608377.58 | 6.732 | 81.303 | 88.03517 |
| 491886.76 | 3608431.91 | 4.381 | 52.911 | 57.29161 |
| 491890.73 | 3608422.29 | 4.397 | 53.099 | 57.49592 |
| 491896.39 | 3608409.84 | 4.349 | 52.529 | 56.87831 |
| 491900.35 | 3608397.38 | 4.355 | 52.593 | 56.94743 |
| 491903.74 | 3608384.93 | 4.338 | 52.390 | 56.72741 |
| 491912.8 | 3608444.92 | 2.904 | 35.073 | 37.97737 |
| 491917.89 | 3608432.47 | 2.968 | 35.848 | 38.81595 |
| 491921.29 | 3608418.89 | 3.074 | 37.132 | 40.20659 |
| 491926.95 | 3608408.14 | 3.030 | 36.589 | 39.61867 |
| 491930.91 | 3608396.25 | 3.026 | 36.552 | 39.57852 |
| 491950.72 | 3608425.12 | 2.194 | 26.495 | 28.68872 |
| 491954.11 | 3608416.06 | 2.216 | 26.764 | 28.97947 |
| 491959.21 | 3608404.74 | 2.206 | 26.644 | 28.84977 |
| 491984.11 | 3608467.56 | 1.241 | 14.988 | 16.22900 |
| 491987.5 | 3608453.98 | 1.333 | 16.104 | 17.43723 |
| 491993.16 | 3608442.66 | 1.369 | 16.536 | 17.90514 |
| 491998.26 | 3608432.47 | 1.391 | 16.800 | 18.19116 |
| 492002.22 | 3608421.15 | 1.423 | 17.185 | 18.60760 |
| 492012.41 | 3608475.49 | 0.942 | 11.383 | 12.32499 |
| 492015.24 | 3608463.6 | 1.009 | 12.188 | 13.19706 |
| 492020.9 | 3608451.15 | 1.052 | 12.706 | 13.75802 |
| 492024.29 | 3608441.53 | 1.086 | 13.118 | 14.20463 |
| 492028.25 | 3608428.51 | 1.128 | 13.626 | 14.75431 |
| 492037.31 | 3608486.24 | 0.733 | 8.847 | 9.57999 |
| 492042.4 | 3608472.09 | 0.789 | 9.529 | 10.31797 |
| 492046.36 | 3608461.34 | 0.827 | 9.991 | 10.81801 |
| 492050.89 | 3608450.58 | 0.858 | 10.360 | 11.21815 |
| 492055.42 | 3608440.4 | 0.880 | 10.634 | 11.51436 |
| 492065.61 | 3608493.6 | 0.583 | 7.042 | 7.62468 |
| 492069 | 3608481.15 | 0.627 | 7.578 | 8.20585 |
| 492075.23 | 3608469.26 | 0.656 | 7.922 | 8.57799 |
| 492078.06 | 3608457.38 | 0.694 | 8.382 | 9.07649 |

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|---|---|---|---|---|
| 492082.59 | 3608446.62 | 0.717 | 8.659 | 9.37635 |
| 491873.18 | 3608334.56 | 5.748 | 69.428 | 75.17606 |
| 491929.78 | 3608349.84 | 3.106 | 37.513 | 40.61945 |
| 491879.97 | 3608317.02 | 3.795 | 45.831 | 49.62568 |
| 491893.22 | 3608305.33 | 2.756 | 33.292 | 36.04824 |
| 491889.89 | 3608289.35 | 2.040 | 24.639 | 26.67927 |
| 491907.21 | 3608277.37 | 1.560 | 18.841 | 20.40100 |
| 491909.87 | 3608246.74 | 0.892 | 10.779 | 11.67152 |
| 491914.53 | 3608232.76 | 0.700 | 8.458 | 9.15779 |
| 491920.52 | 3608219.44 | 0.564 | 6.818 | 7.38226 |
| 491923.85 | 3608203.46 | 0.436 | 5.271 | 5.70767 |
| 491922.52 | 3608187.48 | 0.334 | 4.037 | 4.37138 |
| 491933.84 | 3608176.16 | 0.295 | 3.562 | 3.85705 |
| 491936.5 | 3608332.63 | 2.643 | 31.925 | 34.56850 |
| 491945.82 | 3608306.66 | 1.952 | 23.575 | 25.52647 |
| 491948.49 | 3608292.02 | 1.635 | 19.749 | 21.38429 |
| 491954.48 | 3608266.71 | 1.164 | 14.054 | 15.21771 |
| 491965.8 | 3608249.4 | 0.903 | 10.907 | 11.81039 |
| 491959.81 | 3608230.76 | 0.707 | 8.536 | 9.24249 |
| 491973.12 | 3608219.44 | 0.605 | 7.302 | 7.90687 |
| 491965.13 | 3608198.8 | 0.453 | 5.474 | 5.92705 |
| 491987.11 | 3608190.14 | 0.416 | 5.023 | 5.43923 |
| 491975.79 | 3608366.59 | 2.016 | 24.349 | 26.36490 |
| 491980.45 | 3608353.27 | 1.909 | 23.056 | 24.96469 |
| 491988.44 | 3608337.29 | 1.714 | 20.697 | 22.41071 |
| 491991.77 | 3608319.32 | 1.544 | 18.646 | 20.19020 |
| 492001.09 | 3608294.68 | 1.244 | 15.019 | 16.26295 |
| 492006.41 | 3608282.03 | 1.097 | 13.255 | 14.35260 |
| 492013.07 | 3608266.05 | 0.932 | 11.254 | 12.18587 |
| 492013.07 | 3608251.4 | 0.815 | 9.842 | 10.65692 |
| 492028.39 | 3608241.41 | 0.709 | 8.562 | 9.27103 |
| 492019.07 | 3608222.77 | 0.603 | 7.281 | 7.88405 |
| 492045.7 | 3608210.78 | 0.512 | 6.189 | 6.70098 |
| 492031.05 | 3608385.23 | 1.271 | 15.345 | 16.61539 |

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|---|---|---|---|---|
| 492035.71 | 3608369.92 | 1.249 | 15.080 | 16.32870 |
| 492027.06 | 3608353.27 | 1.324 | 15.991 | 17.31554 |
| 492046.36 | 3608339.96 | 1.138 | 13.741 | 14.87918 |
| 492040.37 | 3608324.64 | 1.139 | 13.761 | 14.90041 |
| 492057.02 | 3608313.32 | 0.992 | 11.977 | 12.96906 |
| 492055.69 | 3608297.34 | 0.935 | 11.297 | 12.23227 |
| 492059.02 | 3608282.03 | 0.850 | 10.266 | 11.11624 |
| 492069.67 | 3608270.04 | 0.756 | 9.131 | 9.88702 |
| 492061.68 | 3608253.4 | 0.701 | 8.461 | 9.16161 |
| 492078.32 | 3608241.41 | 0.608 | 7.343 | 7.95085 |
| 492079.66 | 3608226.76 | 0.544 | 6.576 | 7.12009 |
| 492069.51 | 3608395.3 | 0.952 | 11.498 | 12.44997 |
| 492076.17 | 3608375.99 | 0.943 | 11.394 | 12.33778 |
| 492085.49 | 3608364.01 | 0.898 | 10.845 | 11.74331 |
| 492102.14 | 3608406.62 | 0.751 | 9.074 | 9.82527 |
| 492129.44 | 3608410.61 | 0.633 | 7.642 | 8.27420 |
| 492095.48 | 3608352.69 | 0.846 | 10.220 | 11.06592 |
| 492094.15 | 3608336.04 | 0.843 | 10.178 | 11.02101 |
| 492135.43 | 3608348.69 | 0.674 | 8.144 | 8.81777 |
| 492101.47 | 3608312.74 | 0.774 | 9.350 | 10.12458 |
| 492120.78 | 3608244.15 | 0.536 | 6.469 | 7.00448 |
| 492106.8 | 3608297.42 | 0.720 | 8.702 | 9.42224 |
| 492168.06 | 3608256.14 | 0.477 | 5.762 | 6.23869 |
| 491832.47 | 3608106.99 | 0.047 | 0.570 | 0.61703 |
| 491853.78 | 3608116.31 | 0.065 | 0.789 | 0.85483 |
| 491874.42 | 3608123.64 | 0.088 | 1.061 | 1.14842 |
| 491899.72 | 3608128.96 | 0.118 | 1.425 | 1.54321 |
| 491836.47 | 3608093.01 | 0.042 | 0.506 | 0.54768 |
| 491877.09 | 3608106.33 | 0.072 | 0.865 | 0.93698 |
| 491905.05 | 3608118.98 | 0.107 | 1.296 | 1.40305 |
| 491907.71 | 3608101.66 | 0.087 | 1.054 | 1.14096 |
| 491883.74 | 3608091.01 | 0.063 | 0.759 | 0.82176 |
| 491848.45 | 3608065.04 | 0.035 | 0.420 | 0.45447 |
| 491853.12 | 3608053.06 | 0.032 | 0.388 | 0.41981 |

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|---|---|---|---|---|
| 491873.09 | 3608063.05 | 0.042 | 0.506 | 0.54838 |
| 491909.71 | 3608072.37 | 0.062 | 0.751 | 0.81314 |
| 491921.03 | 3608059.05 | 0.058 | 0.703 | 0.76084 |
| 491925.69 | 3608040.41 | 0.049 | 0.595 | 0.64397 |
| 491856.44 | 3608031.75 | 0.027 | 0.326 | 0.35281 |
| 491867.1 | 3608010.44 | 0.024 | 0.293 | 0.31676 |
| 491875.09 | 3607976.49 | 0.019 | 0.234 | 0.25350 |
| 491918.37 | 3607991.8 | 0.029 | 0.355 | 0.38463 |
| 491945 | 3608000.46 | 0.038 | 0.456 | 0.49374 |
| 491935.09 | 3608141.53 | 0.178 | 2.154 | 2.33215 |
| 491960.9 | 3608152.59 | 0.236 | 2.845 | 3.08015 |
| 491988.54 | 3608164.57 | 0.301 | 3.633 | 3.93425 |
| 491946.15 | 3608114.81 | 0.132 | 1.597 | 1.72957 |
| 491988.54 | 3608129.55 | 0.194 | 2.341 | 2.53519 |
| 492018.04 | 3608107.44 | 0.165 | 1.990 | 2.15443 |
| 491955.37 | 3608089 | 0.101 | 1.220 | 1.32092 |
| 491963.66 | 3608059.51 | 0.075 | 0.911 | 0.98605 |
| 491984.86 | 3608059.51 | 0.084 | 1.018 | 1.10278 |
| 492031.86 | 3608066.89 | 0.111 | 1.344 | 1.45578 |
| 492020.8 | 3608040.16 | 0.081 | 0.983 | 1.06428 |
| 491977.49 | 3608027.26 | 0.058 | 0.705 | 0.76292 |
| 491983.94 | 3608007.9 | 0.050 | 0.606 | 0.65567 |
| 492044.76 | 3608018.04 | 0.072 | 0.875 | 0.94775 |
| 492048.45 | 3608001.45 | 0.063 | 0.763 | 0.82656 |
| 491999.6 | 3607989.47 | 0.046 | 0.554 | 0.59974 |
| 492038.31 | 3608171.95 | 0.348 | 4.203 | 4.55149 |
| 492047.53 | 3608155.36 | 0.294 | 3.547 | 3.84042 |
| 492086.23 | 3608187.61 | 0.392 | 4.738 | 5.13051 |
| 492095.45 | 3608171.03 | 0.337 | 4.074 | 4.41130 |
| 492053.98 | 3608123.1 | 0.212 | 2.558 | 2.76942 |
| 492109.27 | 3608145.22 | 0.269 | 3.244 | 3.51279 |
| 492058.59 | 3608100.06 | 0.169 | 2.038 | 2.20710 |
| 492123.1 | 3608113.89 | 0.206 | 2.489 | 2.69463 |
| 492135.08 | 3608094.53 | 0.176 | 2.128 | 2.30443 |

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|---|---|---|---|---|
| 492076.1 | 3608065.04 | 0.124 | 1.503 | 1.62707 |
| 492085.31 | 3608030.02 | 0.092 | 1.115 | 1.20759 |
| 492139.69 | 3608065.96 | 0.140 | 1.687 | 1.82698 |
| 492139.69 | 3608212.5 | 0.421 | 5.081 | 5.50173 |
| 492183.92 | 3608227.24 | 0.400 | 4.831 | 5.23046 |
| 492143.37 | 3608192.22 | 0.367 | 4.431 | 4.79755 |
| 492194.98 | 3608204.2 | 0.347 | 4.191 | 4.53837 |
| 492203.28 | 3608183.01 | 0.305 | 3.680 | 3.98516 |
| 492151.67 | 3608153.52 | 0.277 | 3.348 | 3.62563 |
| 492197.75 | 3608162.73 | 0.275 | 3.320 | 3.59450 |
| 492159.04 | 3608135.08 | 0.241 | 2.910 | 3.15080 |
| 492164.57 | 3608118.49 | 0.213 | 2.568 | 2.78072 |
| 492219.86 | 3608141.53 | 0.234 | 2.828 | 3.06167 |
| 492223.55 | 3608114.81 | 0.198 | 2.397 | 2.59558 |
| 492231.84 | 3608098.22 | 0.178 | 2.148 | 2.32533 |
| 492170.1 | 3608097.3 | 0.181 | 2.192 | 2.37344 |
| 492180.24 | 3608077.94 | 0.157 | 1.900 | 2.05752 |
| 492183.92 | 3608055.83 | 0.134 | 1.616 | 1.74931 |
| 492218.94 | 3608068.73 | 0.148 | 1.784 | 1.93183 |
| 492246.59 | 3608230.01 | 0.332 | 4.011 | 4.34272 |
| 492239.22 | 3608207.89 | 0.313 | 3.777 | 4.09003 |
| 492241.98 | 3608194.07 | 0.293 | 3.538 | 3.83080 |
| 492246.59 | 3608176.56 | 0.268 | 3.233 | 3.50056 |
| 492257.65 | 3608163.65 | 0.246 | 2.970 | 3.21542 |
| 492261.34 | 3608145.22 | 0.223 | 2.695 | 2.91809 |
| 492266.87 | 3608124.02 | 0.198 | 2.395 | 2.59349 |
| 492272.39 | 3608108.36 | 0.181 | 2.187 | 2.36847 |
| 492277.92 | 3608094.53 | 0.167 | 2.016 | 2.18334 |
| 492285.3 | 3608081.63 | 0.154 | 1.865 | 2.01990 |
| 491685.34 | 3608168.26 | 0.022 | 0.260 | 0.28188 |
| 491689.95 | 3608145.22 | 0.018 | 0.221 | 0.23897 |
| 491694.56 | 3608131.4 | 0.017 | 0.204 | 0.22036 |
| 491698.24 | 3608118.49 | 0.016 | 0.189 | 0.20417 |
| 491701.01 | 3608105.59 | 0.014 | 0.174 | 0.18869 |

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| 491703.77 | 3608093.61 | 0.013 | 0.163 | 0.17609 |
| 491707.46 | 3608079.79 | 0.013 | 0.151 | 0.16363 |
| 491713.91 | 3608070.57 | 0.012 | 0.148 | 0.16010 |
| 491715.75 | 3608058.59 | 0.011 | 0.138 | 0.14952 |
| 491720.36 | 3608046.61 | 0.011 | 0.131 | 0.14238 |
| 491732.34 | 3608014.36 | 0.010 | 0.116 | 0.12547 |
| 491735.11 | 3608002.37 | 0.009 | 0.110 | 0.11879 |
| 491735.11 | 3607991.32 | 0.009 | 0.103 | 0.11139 |
| 491744.32 | 3607980.26 | 0.008 | 0.102 | 0.11042 |
| 491747.09 | 3607967.35 | 0.008 | 0.096 | 0.10436 |
| 491755.38 | 3607954.45 | 0.008 | 0.094 | 0.10194 |
| 491759.07 | 3607939.71 | 0.007 | 0.089 | 0.09611 |
| 491636.5 | 3608156.28 | 0.015 | 0.180 | 0.19489 |
| 491618.06 | 3608148.91 | 0.013 | 0.158 | 0.17089 |
| 491598.71 | 3608143.38 | 0.012 | 0.141 | 0.15307 |
| 491579.36 | 3608134.16 | 0.010 | 0.125 | 0.13526 |
| 491565.53 | 3608132.32 | 0.010 | 0.118 | 0.12796 |
| 491548.94 | 3608123.1 | 0.009 | 0.107 | 0.11545 |
| 491654.01 | 3608119.42 | 0.012 | 0.149 | 0.16158 |
| 491663.22 | 3608133.24 | 0.014 | 0.172 | 0.18652 |
| 491657.69 | 3608106.51 | 0.011 | 0.139 | 0.15024 |
| 491663.22 | 3608094.53 | 0.011 | 0.131 | 0.14211 |
| 491674.28 | 3608094.53 | 0.011 | 0.138 | 0.14982 |
| 491681.65 | 3608086.24 | 0.011 | 0.136 | 0.14717 |
| 491686.26 | 3608072.42 | 0.011 | 0.127 | 0.13770 |
| 491663.22 | 3608078.87 | 0.010 | 0.119 | 0.12835 |
| 491671.52 | 3608072.42 | 0.010 | 0.118 | 0.12794 |
| 491676.12 | 3608058.59 | 0.009 | 0.111 | 0.11996 |
| 491678.89 | 3608048.45 | 0.009 | 0.106 | 0.11431 |
| 491690.87 | 3608053.98 | 0.010 | 0.116 | 0.12557 |
| 491695.48 | 3608035.55 | 0.009 | 0.106 | 0.11508 |
| 491701.93 | 3608024.49 | 0.009 | 0.103 | 0.11162 |
| 491624.52 | 3608121.26 | 0.011 | 0.134 | 0.14525 |
| 491615.3 | 3608116.65 | 0.010 | 0.126 | 0.13644 |

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|---|---|---|---|---|
| 491603.32 | 3608112.97 | 0.010 | 0.118 | 0.12818 |
| 491590.42 | 3608107.44 | 0.009 | 0.110 | 0.11919 |
| 491582.12 | 3608104.67 | 0.009 | 0.106 | 0.11452 |
| 491567.38 | 3608101.91 | 0.008 | 0.100 | 0.10827 |
| 491553.55 | 3608094.53 | 0.008 | 0.093 | 0.10029 |
| 491560 | 3608079.79 | 0.007 | 0.087 | 0.09416 |
| 491571.98 | 3608083.47 | 0.008 | 0.091 | 0.09887 |
| 491585.81 | 3608088.08 | 0.008 | 0.097 | 0.10508 |
| 491599.63 | 3608094.53 | 0.009 | 0.105 | 0.11331 |
| 491614.38 | 3608097.3 | 0.009 | 0.111 | 0.12042 |
| 491626.36 | 3608102.83 | 0.010 | 0.120 | 0.12968 |
| 491630.97 | 3608077.94 | 0.009 | 0.104 | 0.11281 |
| 491613.46 | 3608071.49 | 0.008 | 0.095 | 0.10287 |
| 491635.57 | 3608062.28 | 0.008 | 0.096 | 0.10431 |
| 491647.56 | 3608065.04 | 0.008 | 0.102 | 0.11060 |
| 491568.3 | 3608046.61 | 0.006 | 0.074 | 0.08049 |
| 491556.32 | 3608038.32 | 0.006 | 0.070 | 0.07536 |
| 491572.91 | 3608032.79 | 0.006 | 0.070 | 0.07565 |
| 491594.1 | 3608048.45 | 0.007 | 0.079 | 0.08597 |
| 491589.49 | 3608035.55 | 0.006 | 0.073 | 0.07941 |
| 491608.85 | 3608039.24 | 0.006 | 0.078 | 0.08474 |
| 491612.53 | 3608025.41 | 0.006 | 0.073 | 0.07941 |
| 491625.44 | 3608040.16 | 0.007 | 0.082 | 0.08908 |
| 491636.5 | 3608029.1 | 0.007 | 0.080 | 0.08667 |
| 491654.01 | 3608027.26 | 0.007 | 0.084 | 0.09111 |
| 491643.87 | 3608011.59 | 0.006 | 0.075 | 0.08080 |
| 491667.83 | 3608015.28 | 0.007 | 0.083 | 0.09007 |
| 491689.03 | 3607995 | 0.007 | 0.082 | 0.08878 |
| 491681.65 | 3607976.57 | 0.006 | 0.072 | 0.07808 |
| 491704.69 | 3607986.71 | 0.007 | 0.085 | 0.09178 |
| 491713.91 | 3607971.96 | 0.007 | 0.082 | 0.08907 |
| 491725.89 | 3607958.14 | 0.007 | 0.082 | 0.08831 |
| 491711.15 | 3607949.84 | 0.006 | 0.073 | 0.07852 |
| 491729.58 | 3607943.39 | 0.006 | 0.077 | 0.08351 |

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|---|---|---|---|---|
| 491714.83 | 3607935.1 | 0.006 | 0.069 | 0.07443 |
| 491724.97 | 3607923.12 | 0.006 | 0.068 | 0.07388 |
| 491737.87 | 3607928.65 | 0.006 | 0.075 | 0.08101 |
| 491735.11 | 3607910.22 | 0.006 | 0.067 | 0.07307 |
| 491558.16 | 3608010.67 | 0.005 | 0.061 | 0.06598 |
| 491579.36 | 3607998.69 | 0.005 | 0.060 | 0.06460 |
| 491595.95 | 3608003.3 | 0.005 | 0.063 | 0.06824 |
| 491613.46 | 3607995.92 | 0.005 | 0.063 | 0.06840 |
| 491599.63 | 3607983.94 | 0.005 | 0.058 | 0.06253 |
| 491623.59 | 3607979.33 | 0.005 | 0.060 | 0.06467 |
| 491640.18 | 3607983.02 | 0.005 | 0.064 | 0.06904 |
| 491660.46 | 3607968.28 | 0.005 | 0.064 | 0.06883 |
| 491659.54 | 3607951.69 | 0.005 | 0.059 | 0.06343 |
| 491677.05 | 3607950.77 | 0.005 | 0.062 | 0.06757 |
| 491682.58 | 3607937.86 | 0.005 | 0.060 | 0.06511 |
| 491670.6 | 3607928.65 | 0.005 | 0.055 | 0.05954 |
| 491694.56 | 3607921.27 | 0.005 | 0.059 | 0.06357 |
| 491682.58 | 3607913.9 | 0.004 | 0.054 | 0.05850 |
| 491682.58 | 3607901.92 | 0.004 | 0.051 | 0.05556 |
| 491705.62 | 3607902.84 | 0.005 | 0.057 | 0.06149 |
| 491561.62 | 3607964.09 | 0.004 | 0.049 | 0.05339 |
| 491578.12 | 3607959.66 | 0.004 | 0.050 | 0.05366 |
| 491573.42 | 3607943.99 | 0.004 | 0.046 | 0.04968 |
| 491600.84 | 3607959.66 | 0.004 | 0.052 | 0.05592 |
| 491591.44 | 3607944.77 | 0.004 | 0.047 | 0.05135 |
| 491603.97 | 3607934.59 | 0.004 | 0.046 | 0.05029 |
| 491615.72 | 3607947.91 | 0.004 | 0.051 | 0.05476 |
| 491636.09 | 3607933.02 | 0.004 | 0.050 | 0.05405 |
| 491625.12 | 3607917.35 | 0.004 | 0.045 | 0.04902 |
| 491644.71 | 3607918.92 | 0.004 | 0.048 | 0.05217 |
| 491642.36 | 3607896.99 | 0.004 | 0.044 | 0.04726 |
| 491658.03 | 3607905.6 | 0.004 | 0.048 | 0.05150 |
| 491665.08 | 3607887.59 | 0.004 | 0.045 | 0.04901 |
| 491647.06 | 3607883.67 | 0.003 | 0.042 | 0.04544 |

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|---|---|---|---|---|
| 491564.8 | 3607922.84 | 0.003 | 0.041 | 0.04481 |
| 491587.52 | 3607913.44 | 0.003 | 0.041 | 0.04456 |
| 491573.42 | 3607903.25 | 0.003 | 0.039 | 0.04180 |
| 491607.11 | 3607896.2 | 0.003 | 0.040 | 0.04306 |
| 491603.97 | 3607878.97 | 0.003 | 0.037 | 0.03994 |
| 491621.99 | 3607877.4 | 0.003 | 0.038 | 0.04133 |
| 491892.25 | 3607962.79 | 0.020 | 0.236 | 0.25513 |
| 491943.96 | 3607975.32 | 0.030 | 0.362 | 0.39170 |
| 491586.79 | 3608712.31 | 0.095 | 1.145 | 1.23974 |
| 491579.14 | 3608732.72 | 0.082 | 0.993 | 1.07491 |
| 491579.14 | 3608751.86 | 0.074 | 0.889 | 0.96306 |
| 491563.83 | 3608778.64 | 0.062 | 0.744 | 0.80577 |
| 491558.73 | 3608797.78 | 0.055 | 0.668 | 0.72316 |
| 491545.97 | 3608824.57 | 0.047 | 0.573 | 0.62097 |
| 491543.42 | 3608838.6 | 0.044 | 0.535 | 0.57920 |
| 491534.49 | 3608869.21 | 0.038 | 0.461 | 0.49865 |
| 491635.26 | 3608725.07 | 0.096 | 1.165 | 1.26130 |
| 491665.88 | 3608731.45 | 0.094 | 1.138 | 1.23248 |
| 491654.4 | 3608756.96 | 0.078 | 0.940 | 1.01807 |
| 491627.61 | 3608748.03 | 0.081 | 0.984 | 1.06502 |
| 491621.23 | 3608764.61 | 0.073 | 0.877 | 0.94925 |
| 491651.85 | 3608772.27 | 0.070 | 0.846 | 0.91612 |
| 491635.26 | 3608823.29 | 0.051 | 0.615 | 0.66596 |
| 491608.48 | 3608810.54 | 0.055 | 0.658 | 0.71284 |
| 491603.37 | 3608829.67 | 0.049 | 0.590 | 0.63929 |
| 491627.61 | 3608838.6 | 0.047 | 0.564 | 0.61076 |
| 491622.51 | 3608866.66 | 0.040 | 0.485 | 0.52549 |
| 491590.62 | 3608859.01 | 0.042 | 0.504 | 0.54561 |
| 491586.79 | 3608875.59 | 0.038 | 0.464 | 0.50192 |
| 491617.41 | 3608884.52 | 0.037 | 0.443 | 0.48016 |
| 491707.97 | 3608753.13 | 0.081 | 0.974 | 1.05448 |
| 491702.87 | 3608768.44 | 0.072 | 0.871 | 0.94292 |
| 491696.49 | 3608791.4 | 0.062 | 0.745 | 0.80615 |
| 491688.84 | 3608805.43 | 0.056 | 0.681 | 0.73689 |

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|---|---|---|---|---|
| 491683.74 | 3608834.77 | 0.047 | 0.570 | 0.61762 |
| 491674.81 | 3608851.36 | 0.043 | 0.520 | 0.56313 |
| 491669.71 | 3608874.32 | 0.038 | 0.460 | 0.49819 |
| 491667.15 | 3608903.66 | 0.033 | 0.397 | 0.42968 |
| 491741.14 | 3608758.23 | 0.079 | 0.950 | 1.02873 |
| 491733.49 | 3608772.27 | 0.071 | 0.855 | 0.92601 |
| 491727.11 | 3608797.78 | 0.059 | 0.718 | 0.77770 |
| 491720.73 | 3608809.26 | 0.055 | 0.666 | 0.72137 |
| 491711.8 | 3608833.5 | 0.048 | 0.574 | 0.62197 |
| 491706.7 | 3608855.18 | 0.042 | 0.508 | 0.54978 |
| 491701.6 | 3608871.77 | 0.038 | 0.464 | 0.50262 |
| 491699.05 | 3608899.83 | 0.033 | 0.402 | 0.43563 |
| 491778.13 | 3608770.99 | 0.074 | 0.896 | 0.97052 |
| 491773.03 | 3608791.4 | 0.064 | 0.776 | 0.84028 |
| 491762.83 | 3608811.81 | 0.056 | 0.674 | 0.73001 |
| 491760.28 | 3608828.39 | 0.050 | 0.608 | 0.65876 |
| 491755.17 | 3608851.36 | 0.044 | 0.531 | 0.57493 |
| 491747.52 | 3608869.21 | 0.040 | 0.479 | 0.51868 |
| 491738.59 | 3608884.52 | 0.036 | 0.440 | 0.47611 |
| 491738.59 | 3608902.38 | 0.033 | 0.402 | 0.43551 |
| 491804.92 | 3608781.2 | 0.071 | 0.860 | 0.93142 |
| 491802.37 | 3608806.71 | 0.060 | 0.727 | 0.78682 |
| 491789.61 | 3608822.02 | 0.054 | 0.652 | 0.70593 |
| 491788.34 | 3608839.87 | 0.049 | 0.586 | 0.63471 |
| 491774.31 | 3608853.91 | 0.044 | 0.533 | 0.57744 |
| 491778.13 | 3608875.59 | 0.039 | 0.476 | 0.51594 |
| 491773.03 | 3608892.17 | 0.036 | 0.435 | 0.47135 |
| 491770.48 | 3608916.41 | 0.032 | 0.386 | 0.41760 |
| 491848.29 | 3608793.95 | 0.068 | 0.816 | 0.88338 |
| 491845.74 | 3608815.64 | 0.059 | 0.713 | 0.77206 |
| 491835.54 | 3608834.77 | 0.052 | 0.633 | 0.68555 |
| 491829.16 | 3608859.01 | 0.046 | 0.550 | 0.59549 |
| 491824.06 | 3608874.32 | 0.042 | 0.504 | 0.54616 |
| 491824.06 | 3608890.9 | 0.038 | 0.463 | 0.50133 |

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|---|---|---|---|---|
| 491820.23 | 3608904.93 | 0.036 | 0.430 | 0.46573 |
| 491818.95 | 3608924.07 | 0.032 | 0.392 | 0.42412 |
| 491817.68 | 3608940.65 | 0.030 | 0.362 | 0.39219 |
| 491873.81 | 3608822.02 | 0.057 | 0.692 | 0.74978 |
| 491864.88 | 3608842.43 | 0.051 | 0.616 | 0.66713 |
| 491859.77 | 3608864.11 | 0.045 | 0.547 | 0.59202 |
| 491855.95 | 3608878.14 | 0.042 | 0.507 | 0.54901 |
| 491849.57 | 3608899.83 | 0.037 | 0.453 | 0.48997 |
| 491857.22 | 3608915.14 | 0.035 | 0.422 | 0.45746 |
| 491869.98 | 3608930.44 | 0.033 | 0.397 | 0.42949 |
| 491890.39 | 3608932.99 | 0.033 | 0.396 | 0.42889 |
| 491915.9 | 3608818.19 | 0.058 | 0.697 | 0.75518 |
| 491914.63 | 3608838.6 | 0.052 | 0.626 | 0.67760 |
| 491904.42 | 3608855.18 | 0.048 | 0.577 | 0.62428 |
| 491903.14 | 3608874.32 | 0.043 | 0.524 | 0.56697 |
| 491895.49 | 3608897.28 | 0.039 | 0.468 | 0.50690 |
| 491915.9 | 3608899.83 | 0.038 | 0.462 | 0.50079 |
| 491936.31 | 3608902.38 | 0.038 | 0.454 | 0.49201 |
| 491952.89 | 3608910.03 | 0.036 | 0.435 | 0.47155 |
| 491966.93 | 3608922.79 | 0.034 | 0.409 | 0.44252 |
| 491923.55 | 3608947.03 | 0.031 | 0.375 | 0.40581 |
| 491945.24 | 3608961.06 | 0.029 | 0.353 | 0.38190 |
| 491737.31 | 3608925.34 | 0.030 | 0.360 | 0.39014 |
| CONCUNIT ug | m^3 | 0.000 | 0.000 | 0.00000 |
| DEPUNIT g/m | 2 | 0.000 | 0.000 | 0.00000 |

## Moss Street

**No Mitigation**

**Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Child**
**UTM: (565046,4185977)**

| | | |
|---|---|---|
| **Cancer Potency Factor:** | 1.1 | $(mg/kg\text{-}day)^{-1}$ |
| **Exposure Frequency** | 350 | days/year |
| **Averaging Period** | 25550 | days |

| Year | DPM Concentration (ug/m3) | Age Sensitivty Factor | Daily Breathing Rate (L/kg-day) | Time At Home Factor | Exposure Duration (years) | Unit Risk Factor $(ug/m3)^{-1}$ |
|---|---|---|---|---|---|---|
| 2019 | 1 | 3 | 572 | 1 | 0.25 | 6.5 |
| 2020 | 1 | 3 | 572 | 1 | 1 | 25.9 |

Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines

## Moss Street

**No Mitigation** **at Sensitive Receptors**

**Estimated Cancer Risks from Construction DPM**

| X (m) | Y (m) | Child Cancer 2019 (/million) | Child Cancer 2020 (/million) | Total Cancer Risk (/million) |
|---|---|---|---|---|
| 491856.94 | 3608423.76 | 3.384 | 9.529 | 12.91294 |
| 491770.82 | 3608296.56 | 0.450 | 1.276 | 1.72597 |
| 491786.69 | 3608300.4 | 0.907 | 2.561 | 3.46774 |
| 491777.07 | 3608270.58 | 0.202 | 0.573 | 0.77546 |
| 491794.39 | 3608275.87 | 0.384 | 1.084 | 1.46849 |
| 491789.88 | 3608254.44 | 0.166 | 0.470 | 0.63670 |
| 491793.88 | 3608239.79 | 0.121 | 0.341 | 0.46158 |
| 491796.54 | 3608225.81 | 0.091 | 0.257 | 0.34736 |
| 491799.2 | 3608213.16 | 0.073 | 0.205 | 0.27799 |
| 491804.53 | 3608198.51 | 0.060 | 0.169 | 0.22831 |
| 491835.16 | 3608317.03 | 2.125 | 5.987 | 8.11188 |
| 491837.82 | 3608303.71 | 1.457 | 4.105 | 5.56208 |
| 491843.81 | 3608287.73 | 0.925 | 2.608 | 3.53369 |
| 491851.14 | 3608274.41 | 0.659 | 1.859 | 2.51808 |
| 491863.07 | 3608247.22 | 0.359 | 1.011 | 1.36939 |
| 491867.68 | 3608231.55 | 0.260 | 0.734 | 0.99436 |
| 491875.05 | 3608218.65 | 0.210 | 0.592 | 0.80165 |
| 491878.74 | 3608195.61 | 0.138 | 0.390 | 0.52775 |
| 491885.19 | 3608177.18 | 0.105 | 0.296 | 0.40132 |
| 491807.78 | 3608183.63 | 0.048 | 0.136 | 0.18471 |
| 491812.39 | 3608167.97 | 0.040 | 0.113 | 0.15322 |
| 491819.76 | 3608146.77 | 0.032 | 0.091 | 0.12344 |
| 491840.03 | 3608155.06 | 0.046 | 0.130 | 0.17612 |
| 491868.6 | 3608170.73 | 0.081 | 0.228 | 0.30867 |
| 491865.26 | 3608414.36 | 3.158 | 8.894 | 12.05226 |
| 491867.52 | 3608403.04 | 3.232 | 9.102 | 12.33340 |

| Maximum Caner Risk |
|---|
| 13 |
| **SDAQMD threshold of significance** |
| 10 |
| **Exceed thresholds?** |
| Yes |

| | | | | |
|---|---|---|---|---|
| 491872.05 | 3608392.29 | 3.169 | 8.923 | 12.09187 |
| 491874.88 | 3608377.58 | 3.200 | 9.012 | 12.21162 |
| 491886.76 | 3608431.91 | 2.082 | 5.865 | 7.94699 |
| 491890.73 | 3608422.29 | 2.090 | 5.885 | 7.97536 |
| 491896.39 | 3608409.84 | 2.067 | 5.822 | 7.88973 |
| 491900.35 | 3608397.38 | 2.070 | 5.829 | 7.89936 |
| 491903.74 | 3608384.93 | 2.062 | 5.807 | 7.86890 |
| 491912.8 | 3608444.92 | 1.380 | 3.888 | 5.26792 |
| 491917.89 | 3608432.47 | 1.411 | 3.973 | 5.38426 |
| 491921.29 | 3608418.89 | 1.461 | 4.116 | 5.57719 |
| 491926.95 | 3608408.14 | 1.440 | 4.056 | 5.49566 |
| 491930.91 | 3608396.25 | 1.439 | 4.052 | 5.49013 |
| 491950.72 | 3608425.12 | 1.043 | 2.937 | 3.97954 |
| 491954.11 | 3608416.06 | 1.053 | 2.967 | 4.01988 |
| 491959.21 | 3608404.74 | 1.049 | 2.953 | 4.00192 |
| 491984.11 | 3608467.56 | 0.590 | 1.661 | 2.25120 |
| 491987.5 | 3608453.98 | 0.634 | 1.785 | 2.41881 |
| 491993.16 | 3608442.66 | 0.651 | 1.833 | 2.48372 |
| 491998.26 | 3608432.47 | 0.661 | 1.862 | 2.52341 |
| 492002.22 | 3608421.15 | 0.676 | 1.905 | 2.58118 |
| 492012.41 | 3608475.49 | 0.448 | 1.262 | 1.70967 |
| 492015.24 | 3608463.6 | 0.480 | 1.351 | 1.83064 |
| 492020.9 | 3608451.15 | 0.500 | 1.408 | 1.90846 |
| 492024.29 | 3608441.53 | 0.516 | 1.454 | 1.97042 |
| 492028.25 | 3608428.51 | 0.536 | 1.510 | 2.04668 |
| 492037.31 | 3608486.24 | 0.348 | 0.981 | 1.32891 |
| 492042.4 | 3608472.09 | 0.375 | 1.056 | 1.43128 |
| 492046.36 | 3608461.34 | 0.393 | 1.107 | 1.50064 |
| 492050.89 | 3608450.58 | 0.408 | 1.148 | 1.55615 |
| 492055.42 | 3608440.4 | 0.419 | 1.179 | 1.59725 |
| 492065.61 | 3608493.6 | 0.277 | 0.781 | 1.05768 |
| 492069 | 3608481.15 | 0.298 | 0.840 | 1.13830 |
| 492075.23 | 3608469.26 | 0.312 | 0.878 | 1.18992 |
| 492078.06 | 3608457.38 | 0.330 | 0.929 | 1.25908 |

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| 492082.59 | 3608446.62 | 0.341 | 0.960 | 1.30067 |
| 491873.18 | 3608334.56 | 2.733 | 7.696 | 10.42859 |
| 491929.78 | 3608349.84 | 1.476 | 4.158 | 5.63475 |
| 491879.97 | 3608317.02 | 1.804 | 5.081 | 6.88472 |
| 491893.22 | 3608305.33 | 1.310 | 3.691 | 5.00130 |
| 491889.89 | 3608289.35 | 0.970 | 2.732 | 3.70184 |
| 491907.21 | 3608277.37 | 0.742 | 2.089 | 2.83077 |
| 491909.87 | 3608246.74 | 0.424 | 1.196 | 1.61977 |
| 491914.53 | 3608232.76 | 0.333 | 0.938 | 1.27098 |
| 491920.52 | 3608219.44 | 0.268 | 0.756 | 1.02460 |
| 491923.85 | 3608203.46 | 0.207 | 0.585 | 0.79223 |
| 491922.52 | 3608187.48 | 0.159 | 0.448 | 0.60680 |
| 491933.84 | 3608176.16 | 0.140 | 0.395 | 0.53540 |
| 491936.5 | 3608332.63 | 1.257 | 3.539 | 4.79551 |
| 491945.82 | 3608306.66 | 0.928 | 2.614 | 3.54137 |
| 491948.49 | 3608292.02 | 0.777 | 2.190 | 2.96683 |
| 491954.48 | 3608266.71 | 0.553 | 1.558 | 2.11145 |
| 491965.8 | 3608249.4 | 0.429 | 1.209 | 1.63876 |
| 491959.81 | 3608230.76 | 0.336 | 0.947 | 1.28255 |
| 491973.12 | 3608219.44 | 0.287 | 0.810 | 1.09722 |
| 491965.13 | 3608198.8 | 0.215 | 0.607 | 0.82256 |
| 491987.11 | 3608190.14 | 0.198 | 0.557 | 0.75483 |
| 491975.79 | 3608366.59 | 0.958 | 2.699 | 3.65733 |
| 491980.45 | 3608353.27 | 0.907 | 2.556 | 3.46315 |
| 491988.44 | 3608337.29 | 0.815 | 2.294 | 3.10892 |
| 491991.77 | 3608319.32 | 0.734 | 2.067 | 2.80096 |
| 492001.09 | 3608294.68 | 0.591 | 1.665 | 2.25623 |
| 492006.41 | 3608282.03 | 0.522 | 1.470 | 1.99125 |
| 492013.07 | 3608266.05 | 0.443 | 1.248 | 1.69069 |
| 492013.07 | 3608251.4 | 0.387 | 1.091 | 1.47861 |
| 492028.39 | 3608241.41 | 0.337 | 0.949 | 1.28634 |
| 492019.07 | 3608222.77 | 0.287 | 0.807 | 1.09396 |
| 492045.7 | 3608210.78 | 0.244 | 0.686 | 0.92979 |
| 492031.05 | 3608385.23 | 0.604 | 1.701 | 2.30489 |

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| 492035.71 | 3608369.92 | 0.594 | 1.672 | 2.26514 |
| 492027.06 | 3608353.27 | 0.629 | 1.773 | 2.40207 |
| 492046.36 | 3608339.96 | 0.541 | 1.523 | 2.06412 |
| 492040.37 | 3608324.64 | 0.542 | 1.525 | 2.06710 |
| 492057.02 | 3608313.32 | 0.471 | 1.328 | 1.79919 |
| 492055.69 | 3608297.34 | 0.445 | 1.252 | 1.69702 |
| 492059.02 | 3608282.03 | 0.404 | 1.138 | 1.54222 |
| 492069.67 | 3608270.04 | 0.359 | 1.012 | 1.37170 |
| 492061.68 | 3608253.4 | 0.333 | 0.938 | 1.27110 |
| 492078.32 | 3608241.41 | 0.289 | 0.814 | 1.10313 |
| 492079.66 | 3608226.76 | 0.259 | 0.729 | 0.98789 |
| 492069.51 | 3608395.3 | 0.453 | 1.275 | 1.72707 |
| 492076.17 | 3608375.99 | 0.448 | 1.263 | 1.71152 |
| 492085.49 | 3608364.01 | 0.427 | 1.202 | 1.62907 |
| 492102.14 | 3608406.62 | 0.357 | 1.006 | 1.36297 |
| 492129.44 | 3608410.61 | 0.301 | 0.847 | 1.14781 |
| 492095.48 | 3608352.69 | 0.402 | 1.133 | 1.53512 |
| 492094.15 | 3608336.04 | 0.401 | 1.128 | 1.52891 |
| 492135.43 | 3608348.69 | 0.321 | 0.903 | 1.22325 |
| 492101.47 | 3608312.74 | 0.368 | 1.037 | 1.40458 |
| 492120.78 | 3608244.15 | 0.255 | 0.717 | 0.97181 |
| 492106.8 | 3608297.42 | 0.342 | 0.965 | 1.30717 |
| 492168.06 | 3608256.14 | 0.227 | 0.639 | 0.86554 |
| 491832.47 | 3608106.99 | 0.022 | 0.063 | 0.08573 |
| 491853.78 | 3608116.31 | 0.031 | 0.088 | 0.11875 |
| 491874.42 | 3608123.64 | 0.042 | 0.118 | 0.15950 |
| 491899.72 | 3608128.96 | 0.056 | 0.158 | 0.21428 |
| 491836.47 | 3608093.01 | 0.020 | 0.056 | 0.07609 |
| 491877.09 | 3608106.33 | 0.034 | 0.096 | 0.13013 |
| 491905.05 | 3608118.98 | 0.051 | 0.144 | 0.19482 |
| 491907.71 | 3608101.66 | 0.041 | 0.117 | 0.15843 |
| 491883.74 | 3608091.01 | 0.030 | 0.084 | 0.11412 |
| 491848.45 | 3608065.04 | 0.017 | 0.047 | 0.06312 |
| 491853.12 | 3608053.06 | 0.015 | 0.043 | 0.05831 |

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| 491873.09 | 3608063.05 | 0.020 | 0.056 | 0.07616 |
| 491909.71 | 3608072.37 | 0.030 | 0.083 | 0.11290 |
| 491921.03 | 3608059.05 | 0.028 | 0.078 | 0.10564 |
| 491925.69 | 3608040.41 | 0.023 | 0.066 | 0.08941 |
| 491856.44 | 3608031.75 | 0.013 | 0.036 | 0.04900 |
| 491867.1 | 3608010.44 | 0.012 | 0.032 | 0.04399 |
| 491875.09 | 3607976.49 | 0.009 | 0.026 | 0.03520 |
| 491918.37 | 3607991.8 | 0.014 | 0.039 | 0.05340 |
| 491945 | 3608000.46 | 0.018 | 0.051 | 0.06854 |
| 491935.09 | 3608141.53 | 0.085 | 0.239 | 0.32376 |
| 491960.9 | 3608152.59 | 0.112 | 0.316 | 0.42753 |
| 491988.54 | 3608164.57 | 0.143 | 0.403 | 0.54602 |
| 491946.15 | 3608114.81 | 0.063 | 0.177 | 0.24010 |
| 491988.54 | 3608129.55 | 0.092 | 0.260 | 0.35188 |
| 492018.04 | 3608107.44 | 0.078 | 0.221 | 0.29901 |
| 491955.37 | 3608089 | 0.048 | 0.135 | 0.18337 |
| 491963.66 | 3608059.51 | 0.036 | 0.101 | 0.13688 |
| 491984.86 | 3608059.51 | 0.040 | 0.113 | 0.15308 |
| 492031.86 | 3608066.89 | 0.053 | 0.149 | 0.20205 |
| 492020.8 | 3608040.16 | 0.039 | 0.109 | 0.14772 |
| 491977.49 | 3608027.26 | 0.028 | 0.078 | 0.10591 |
| 491983.94 | 3608007.9 | 0.024 | 0.067 | 0.09102 |
| 492044.76 | 3608018.04 | 0.034 | 0.097 | 0.13154 |
| 492048.45 | 3608001.45 | 0.030 | 0.085 | 0.11472 |
| 491999.6 | 3607989.47 | 0.022 | 0.061 | 0.08325 |
| 492038.31 | 3608171.95 | 0.165 | 0.466 | 0.63160 |
| 492047.53 | 3608155.36 | 0.140 | 0.393 | 0.53294 |
| 492086.23 | 3608187.61 | 0.186 | 0.525 | 0.71189 |
| 492095.45 | 3608171.03 | 0.160 | 0.452 | 0.61210 |
| 492053.98 | 3608123.1 | 0.101 | 0.284 | 0.38433 |
| 492109.27 | 3608145.22 | 0.128 | 0.360 | 0.48744 |
| 492058.59 | 3608100.06 | 0.080 | 0.226 | 0.30630 |
| 492123.1 | 3608113.89 | 0.098 | 0.276 | 0.37392 |
| 492135.08 | 3608094.53 | 0.084 | 0.236 | 0.31978 |

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| 492076.1 | 3608065.04 | 0.059 | 0.167 | 0.22581 |
| 492085.31 | 3608030.02 | 0.044 | 0.124 | 0.16759 |
| 492139.69 | 3608065.96 | 0.066 | 0.187 | 0.25353 |
| 492139.69 | 3608212.5 | 0.200 | 0.563 | 0.76334 |
| 492183.92 | 3608227.24 | 0.190 | 0.536 | 0.72568 |
| 492143.37 | 3608192.22 | 0.174 | 0.491 | 0.66565 |
| 492194.98 | 3608204.2 | 0.165 | 0.465 | 0.62967 |
| 492203.28 | 3608183.01 | 0.145 | 0.408 | 0.55293 |
| 492151.67 | 3608153.52 | 0.132 | 0.371 | 0.50307 |
| 492197.75 | 3608162.73 | 0.131 | 0.368 | 0.49874 |
| 492159.04 | 3608135.08 | 0.115 | 0.323 | 0.43720 |
| 492164.57 | 3608118.49 | 0.101 | 0.285 | 0.38585 |
| 492219.86 | 3608141.53 | 0.111 | 0.314 | 0.42481 |
| 492223.55 | 3608114.81 | 0.094 | 0.266 | 0.36015 |
| 492231.84 | 3608098.22 | 0.085 | 0.238 | 0.32265 |
| 492170.1 | 3608097.3 | 0.086 | 0.243 | 0.32934 |
| 492180.24 | 3608077.94 | 0.075 | 0.211 | 0.28551 |
| 492183.92 | 3608055.83 | 0.064 | 0.179 | 0.24274 |
| 492218.94 | 3608068.73 | 0.070 | 0.198 | 0.26806 |
| 492246.59 | 3608230.01 | 0.158 | 0.445 | 0.60250 |
| 492239.22 | 3608207.89 | 0.149 | 0.419 | 0.56746 |
| 492241.98 | 3608194.07 | 0.139 | 0.392 | 0.53150 |
| 492246.59 | 3608176.56 | 0.127 | 0.358 | 0.48569 |
| 492257.65 | 3608163.65 | 0.117 | 0.329 | 0.44613 |
| 492261.34 | 3608145.22 | 0.106 | 0.299 | 0.40488 |
| 492266.87 | 3608124.02 | 0.094 | 0.266 | 0.35985 |
| 492272.39 | 3608108.36 | 0.086 | 0.243 | 0.32863 |
| 492277.92 | 3608094.53 | 0.079 | 0.224 | 0.30294 |
| 492285.3 | 3608081.63 | 0.073 | 0.207 | 0.28027 |
| 491685.34 | 3608168.26 | 0.010 | 0.029 | 0.03926 |
| 491689.95 | 3608145.22 | 0.009 | 0.025 | 0.03326 |
| 491694.56 | 3608131.4 | 0.008 | 0.023 | 0.03066 |
| 491698.24 | 3608118.49 | 0.007 | 0.021 | 0.02841 |
| 491701.01 | 3608105.59 | 0.007 | 0.019 | 0.02625 |

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| 491703.77 | 3608093.61 | 0.006 | 0.018 | 0.02449 |
| 491707.46 | 3608079.79 | 0.006 | 0.017 | 0.02275 |
| 491713.91 | 3608070.57 | 0.006 | 0.016 | 0.02226 |
| 491715.75 | 3608058.59 | 0.005 | 0.015 | 0.02079 |
| 491720.36 | 3608046.61 | 0.005 | 0.015 | 0.01979 |
| 491732.34 | 3608014.36 | 0.005 | 0.013 | 0.01744 |
| 491735.11 | 3608002.37 | 0.004 | 0.012 | 0.01651 |
| 491735.11 | 3607991.32 | 0.004 | 0.011 | 0.01548 |
| 491744.32 | 3607980.26 | 0.004 | 0.011 | 0.01534 |
| 491747.09 | 3607967.35 | 0.004 | 0.011 | 0.01450 |
| 491755.38 | 3607954.45 | 0.004 | 0.010 | 0.01416 |
| 491759.07 | 3607939.71 | 0.003 | 0.010 | 0.01335 |
| 491636.5 | 3608156.28 | 0.007 | 0.020 | 0.02714 |
| 491618.06 | 3608148.91 | 0.006 | 0.018 | 0.02379 |
| 491598.71 | 3608143.38 | 0.006 | 0.016 | 0.02131 |
| 491579.36 | 3608134.16 | 0.005 | 0.014 | 0.01882 |
| 491565.53 | 3608132.32 | 0.005 | 0.013 | 0.01781 |
| 491548.94 | 3608123.1 | 0.004 | 0.012 | 0.01606 |
| 491654.01 | 3608119.42 | 0.006 | 0.017 | 0.02248 |
| 491663.22 | 3608133.24 | 0.007 | 0.019 | 0.02596 |
| 491657.69 | 3608106.51 | 0.005 | 0.015 | 0.02090 |
| 491663.22 | 3608094.53 | 0.005 | 0.015 | 0.01977 |
| 491674.28 | 3608094.53 | 0.005 | 0.015 | 0.02084 |
| 491681.65 | 3608086.24 | 0.005 | 0.015 | 0.02047 |
| 491686.26 | 3608072.42 | 0.005 | 0.014 | 0.01915 |
| 491663.22 | 3608078.87 | 0.005 | 0.013 | 0.01785 |
| 491671.52 | 3608072.42 | 0.005 | 0.013 | 0.01779 |
| 491676.12 | 3608058.59 | 0.004 | 0.012 | 0.01668 |
| 491678.89 | 3608048.45 | 0.004 | 0.012 | 0.01589 |
| 491690.87 | 3608053.98 | 0.005 | 0.013 | 0.01746 |
| 491695.48 | 3608035.55 | 0.004 | 0.012 | 0.01600 |
| 491701.93 | 3608024.49 | 0.004 | 0.011 | 0.01552 |
| 491624.52 | 3608121.26 | 0.005 | 0.015 | 0.02021 |
| 491615.3 | 3608116.65 | 0.005 | 0.014 | 0.01899 |

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| 491603.32 | 3608112.97 | 0.005 | 0.013 | 0.01784 |
| 491590.42 | 3608107.44 | 0.004 | 0.012 | 0.01658 |
| 491582.12 | 3608104.67 | 0.004 | 0.012 | 0.01593 |
| 491567.38 | 3608101.91 | 0.004 | 0.011 | 0.01506 |
| 491553.55 | 3608094.53 | 0.004 | 0.010 | 0.01395 |
| 491560 | 3608079.79 | 0.003 | 0.010 | 0.01309 |
| 491571.98 | 3608083.47 | 0.004 | 0.010 | 0.01375 |
| 491585.81 | 3608088.08 | 0.004 | 0.011 | 0.01462 |
| 491599.63 | 3608094.53 | 0.004 | 0.012 | 0.01576 |
| 491614.38 | 3608097.3 | 0.004 | 0.012 | 0.01675 |
| 491626.36 | 3608102.83 | 0.005 | 0.013 | 0.01804 |
| 491630.97 | 3608077.94 | 0.004 | 0.012 | 0.01569 |
| 491613.46 | 3608071.49 | 0.004 | 0.011 | 0.01431 |
| 491635.57 | 3608062.28 | 0.004 | 0.011 | 0.01451 |
| 491647.56 | 3608065.04 | 0.004 | 0.011 | 0.01538 |
| 491568.3 | 3608046.61 | 0.003 | 0.008 | 0.01119 |
| 491556.32 | 3608038.32 | 0.003 | 0.008 | 0.01048 |
| 491572.91 | 3608032.79 | 0.003 | 0.008 | 0.01052 |
| 491594.1 | 3608048.45 | 0.003 | 0.009 | 0.01195 |
| 491589.49 | 3608035.55 | 0.003 | 0.008 | 0.01104 |
| 491608.85 | 3608039.24 | 0.003 | 0.009 | 0.01178 |
| 491612.53 | 3608025.41 | 0.003 | 0.008 | 0.01104 |
| 491625.44 | 3608040.16 | 0.003 | 0.009 | 0.01239 |
| 491636.5 | 3608029.1 | 0.003 | 0.009 | 0.01205 |
| 491654.01 | 3608027.26 | 0.003 | 0.009 | 0.01267 |
| 491643.87 | 3608011.59 | 0.003 | 0.008 | 0.01123 |
| 491667.83 | 3608015.28 | 0.003 | 0.009 | 0.01252 |
| 491689.03 | 3607995 | 0.003 | 0.009 | 0.01234 |
| 491681.65 | 3607976.57 | 0.003 | 0.008 | 0.01085 |
| 491704.69 | 3607986.71 | 0.003 | 0.009 | 0.01276 |
| 491713.91 | 3607971.96 | 0.003 | 0.009 | 0.01238 |
| 491725.89 | 3607958.14 | 0.003 | 0.009 | 0.01227 |
| 491711.15 | 3607949.84 | 0.003 | 0.008 | 0.01091 |
| 491729.58 | 3607943.39 | 0.003 | 0.009 | 0.01160 |

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| 491714.83 | 3607935.1 | 0.003 | 0.008 | 0.01034 |
| 491724.97 | 3607923.12 | 0.003 | 0.008 | 0.01026 |
| 491737.87 | 3607928.65 | 0.003 | 0.008 | 0.01125 |
| 491735.11 | 3607910.22 | 0.003 | 0.007 | 0.01015 |
| 491558.16 | 3608010.67 | 0.002 | 0.007 | 0.00917 |
| 491579.36 | 3607998.69 | 0.002 | 0.007 | 0.00898 |
| 491595.95 | 3608003.3 | 0.002 | 0.007 | 0.00949 |
| 491613.46 | 3607995.92 | 0.002 | 0.007 | 0.00951 |
| 491599.63 | 3607983.94 | 0.002 | 0.006 | 0.00869 |
| 491623.59 | 3607979.33 | 0.002 | 0.007 | 0.00899 |
| 491640.18 | 3607983.02 | 0.003 | 0.007 | 0.00960 |
| 491660.46 | 3607968.28 | 0.003 | 0.007 | 0.00957 |
| 491659.54 | 3607951.69 | 0.002 | 0.007 | 0.00882 |
| 491677.05 | 3607950.77 | 0.002 | 0.007 | 0.00939 |
| 491682.58 | 3607937.86 | 0.002 | 0.007 | 0.00905 |
| 491670.6 | 3607928.65 | 0.002 | 0.006 | 0.00827 |
| 491694.56 | 3607921.27 | 0.002 | 0.007 | 0.00883 |
| 491682.58 | 3607913.9 | 0.002 | 0.006 | 0.00813 |
| 491682.58 | 3607901.92 | 0.002 | 0.006 | 0.00772 |
| 491705.62 | 3607902.84 | 0.002 | 0.006 | 0.00854 |
| 491561.62 | 3607964.09 | 0.002 | 0.005 | 0.00742 |
| 491578.12 | 3607959.66 | 0.002 | 0.006 | 0.00746 |
| 491573.42 | 3607943.99 | 0.002 | 0.005 | 0.00690 |
| 491600.84 | 3607959.66 | 0.002 | 0.006 | 0.00777 |
| 491591.44 | 3607944.77 | 0.002 | 0.005 | 0.00714 |
| 491603.97 | 3607934.59 | 0.002 | 0.005 | 0.00699 |
| 491615.72 | 3607947.91 | 0.002 | 0.006 | 0.00761 |
| 491636.09 | 3607933.02 | 0.002 | 0.006 | 0.00751 |
| 491625.12 | 3607917.35 | 0.002 | 0.005 | 0.00681 |
| 491644.71 | 3607918.92 | 0.002 | 0.005 | 0.00725 |
| 491642.36 | 3607896.99 | 0.002 | 0.005 | 0.00657 |
| 491658.03 | 3607905.6 | 0.002 | 0.005 | 0.00716 |
| 491665.08 | 3607887.59 | 0.002 | 0.005 | 0.00681 |
| 491647.06 | 3607883.67 | 0.002 | 0.005 | 0.00631 |

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| 491564.8 | 3607922.84 | 0.002 | 0.005 | 0.00623 |
| 491587.52 | 3607913.44 | 0.002 | 0.005 | 0.00619 |
| 491573.42 | 3607903.25 | 0.002 | 0.004 | 0.00581 |
| 491607.11 | 3607896.2 | 0.002 | 0.004 | 0.00598 |
| 491603.97 | 3607878.97 | 0.001 | 0.004 | 0.00555 |
| 491621.99 | 3607877.4 | 0.002 | 0.004 | 0.00574 |
| 491892.25 | 3607962.79 | 0.009 | 0.026 | 0.03542 |
| 491943.96 | 3607975.32 | 0.014 | 0.040 | 0.05438 |
| 491586.79 | 3608712.31 | 0.045 | 0.127 | 0.17200 |
| 491579.14 | 3608732.72 | 0.039 | 0.110 | 0.14913 |
| 491579.14 | 3608751.86 | 0.035 | 0.099 | 0.13362 |
| 491563.83 | 3608778.64 | 0.029 | 0.083 | 0.11179 |
| 491558.73 | 3608797.78 | 0.026 | 0.074 | 0.10033 |
| 491545.97 | 3608824.57 | 0.023 | 0.064 | 0.08615 |
| 491543.42 | 3608838.6 | 0.021 | 0.059 | 0.08036 |
| 491534.49 | 3608869.21 | 0.018 | 0.051 | 0.06918 |
| 491635.26 | 3608725.07 | 0.046 | 0.129 | 0.17499 |
| 491665.88 | 3608731.45 | 0.045 | 0.126 | 0.17099 |
| 491654.4 | 3608756.96 | 0.037 | 0.104 | 0.14125 |
| 491627.61 | 3608748.03 | 0.039 | 0.109 | 0.14776 |
| 491621.23 | 3608764.61 | 0.035 | 0.097 | 0.13170 |
| 491651.85 | 3608772.27 | 0.033 | 0.094 | 0.12710 |
| 491635.26 | 3608823.29 | 0.024 | 0.068 | 0.09240 |
| 491608.48 | 3608810.54 | 0.026 | 0.073 | 0.09890 |
| 491603.37 | 3608829.67 | 0.023 | 0.065 | 0.08870 |
| 491627.61 | 3608838.6 | 0.022 | 0.063 | 0.08474 |
| 491622.51 | 3608866.66 | 0.019 | 0.054 | 0.07291 |
| 491590.62 | 3608859.01 | 0.020 | 0.056 | 0.07570 |
| 491586.79 | 3608875.59 | 0.018 | 0.051 | 0.06964 |
| 491617.41 | 3608884.52 | 0.017 | 0.049 | 0.06662 |
| 491707.97 | 3608753.13 | 0.038 | 0.108 | 0.14630 |
| 491702.87 | 3608768.44 | 0.034 | 0.097 | 0.13082 |
| 491696.49 | 3608791.4 | 0.029 | 0.083 | 0.11185 |
| 491688.84 | 3608805.43 | 0.027 | 0.075 | 0.10224 |

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| 491683.74 | 3608834.77 | 0.022 | 0.063 | 0.08569 |
| 491674.81 | 3608851.36 | 0.020 | 0.058 | 0.07813 |
| 491669.71 | 3608874.32 | 0.018 | 0.051 | 0.06912 |
| 491667.15 | 3608903.66 | 0.016 | 0.044 | 0.05962 |
| 491741.14 | 3608758.23 | 0.037 | 0.105 | 0.14273 |
| 491733.49 | 3608772.27 | 0.034 | 0.095 | 0.12847 |
| 491727.11 | 3608797.78 | 0.028 | 0.080 | 0.10790 |
| 491720.73 | 3608809.26 | 0.026 | 0.074 | 0.10008 |
| 491711.8 | 3608833.5 | 0.023 | 0.064 | 0.08629 |
| 491706.7 | 3608855.18 | 0.020 | 0.056 | 0.07628 |
| 491701.6 | 3608871.77 | 0.018 | 0.051 | 0.06974 |
| 491699.05 | 3608899.83 | 0.016 | 0.045 | 0.06044 |
| 491778.13 | 3608770.99 | 0.035 | 0.099 | 0.13465 |
| 491773.03 | 3608791.4 | 0.031 | 0.086 | 0.11658 |
| 491762.83 | 3608811.81 | 0.027 | 0.075 | 0.10128 |
| 491760.28 | 3608828.39 | 0.024 | 0.067 | 0.09140 |
| 491755.17 | 3608851.36 | 0.021 | 0.059 | 0.07977 |
| 491747.52 | 3608869.21 | 0.019 | 0.053 | 0.07196 |
| 491738.59 | 3608884.52 | 0.017 | 0.049 | 0.06606 |
| 491738.59 | 3608902.38 | 0.016 | 0.045 | 0.06043 |
| 491804.92 | 3608781.2 | 0.034 | 0.095 | 0.12922 |
| 491802.37 | 3608806.71 | 0.029 | 0.081 | 0.10916 |
| 491789.61 | 3608822.02 | 0.026 | 0.072 | 0.09794 |
| 491788.34 | 3608839.87 | 0.023 | 0.065 | 0.08806 |
| 491774.31 | 3608853.91 | 0.021 | 0.059 | 0.08012 |
| 491778.13 | 3608875.59 | 0.019 | 0.053 | 0.07158 |
| 491773.03 | 3608892.17 | 0.017 | 0.048 | 0.06540 |
| 491770.48 | 3608916.41 | 0.015 | 0.043 | 0.05794 |
| 491848.29 | 3608793.95 | 0.032 | 0.090 | 0.12256 |
| 491845.74 | 3608815.64 | 0.028 | 0.079 | 0.10711 |
| 491835.54 | 3608834.77 | 0.025 | 0.070 | 0.09511 |
| 491829.16 | 3608859.01 | 0.022 | 0.061 | 0.08262 |
| 491824.06 | 3608874.32 | 0.020 | 0.056 | 0.07577 |
| 491824.06 | 3608890.9 | 0.018 | 0.051 | 0.06956 |

| | | | | |
|---|---|---|---|---|
| 491820.23 | 3608904.93 | 0.017 | 0.048 | 0.06462 |
| 491818.95 | 3608924.07 | 0.015 | 0.043 | 0.05884 |
| 491817.68 | 3608940.65 | 0.014 | 0.040 | 0.05441 |
| 491873.81 | 3608822.02 | 0.027 | 0.077 | 0.10402 |
| 491864.88 | 3608842.43 | 0.024 | 0.068 | 0.09256 |
| 491859.77 | 3608864.11 | 0.022 | 0.061 | 0.08214 |
| 491855.95 | 3608878.14 | 0.020 | 0.056 | 0.07617 |
| 491849.57 | 3608899.83 | 0.018 | 0.050 | 0.06798 |
| 491857.22 | 3608915.14 | 0.017 | 0.047 | 0.06347 |
| 491869.98 | 3608930.44 | 0.016 | 0.044 | 0.05959 |
| 491890.39 | 3608932.99 | 0.016 | 0.044 | 0.05950 |
| 491915.9 | 3608818.19 | 0.027 | 0.077 | 0.10477 |
| 491914.63 | 3608838.6 | 0.025 | 0.069 | 0.09401 |
| 491904.42 | 3608855.18 | 0.023 | 0.064 | 0.08661 |
| 491903.14 | 3608874.32 | 0.021 | 0.058 | 0.07866 |
| 491895.49 | 3608897.28 | 0.018 | 0.052 | 0.07033 |
| 491915.9 | 3608899.83 | 0.018 | 0.051 | 0.06948 |
| 491936.31 | 3608902.38 | 0.018 | 0.050 | 0.06826 |
| 491952.89 | 3608910.03 | 0.017 | 0.048 | 0.06542 |
| 491966.93 | 3608922.79 | 0.016 | 0.045 | 0.06139 |
| 491923.55 | 3608947.03 | 0.015 | 0.042 | 0.05630 |
| 491945.24 | 3608961.06 | 0.014 | 0.039 | 0.05298 |
| 491737.31 | 3608925.34 | 0.014 | 0.040 | 0.05413 |
| CONCUNIT ug | m^3 | 0.000 | 0.000 | 0.00000 |
| DEPUNIT g/m | 2 | 0.000 | 0.000 | 0.00000 |

## Moss Street

**No Mitigation**

**Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Adult**

| | | |
|---|---|---|
| **Cancer Potency Factor:** | 1.1 | $(mg/kg\text{-}day)^{-1}$ |
| **Exposure Frequency** | 350 | days/year |
| **Averaging Period** | 25550 | days |

| Year | DPM Concentration (ug/m3) | Age Sensitivty Factor | Daily Breathing Rate (L/kg-day) | Time At Home Factor | Exposure Duration (years) | Unit Risk Factor $(ug/m3)^{-1}$ |
|---|---|---|---|---|---|---|
| 2019 | 1 | 1 | 261 | 1 | 0.25 | 1.0 |
| 2020 | 1 | 1 | 261 | 1 | 1 | 3.9 |

Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines

**Moss Street** **No Mitigation** **at Sensitive Receptors**

**Estimated Cancer Risks from Construction DPM**

| X (m) | Y (m) | Adult Cancer 2019 (/million) | Adult Cancer 2020 (/million) | Total Cancer Risk (/million) |
|---|---|---|---|---|
| 491856.94 | 3608423.76 | 0.515 | 1.449 | 1.96403 |
| 491770.82 | 3608296.56 | 0.069 | 0.194 | 0.26252 |
| 491786.69 | 3608300.4 | 0.138 | 0.389 | 0.52744 |
| 491777.07 | 3608270.58 | 0.031 | 0.087 | 0.11795 |
| 491794.39 | 3608275.87 | 0.058 | 0.165 | 0.22335 |
| 491789.88 | 3608254.44 | 0.025 | 0.072 | 0.09684 |
| 491793.88 | 3608239.79 | 0.018 | 0.052 | 0.07021 |
| 491796.54 | 3608225.81 | 0.014 | 0.039 | 0.05283 |
| 491799.2 | 3608213.16 | 0.011 | 0.031 | 0.04228 |
| 491804.53 | 3608198.51 | 0.009 | 0.026 | 0.03473 |
| 491835.16 | 3608317.03 | 0.323 | 0.911 | 1.23380 |
| 491837.82 | 3608303.71 | 0.222 | 0.624 | 0.84598 |
| 491843.81 | 3608287.73 | 0.141 | 0.397 | 0.53747 |
| 491851.14 | 3608274.41 | 0.100 | 0.283 | 0.38299 |
| 491863.07 | 3608247.22 | 0.055 | 0.154 | 0.20828 |
| 491867.68 | 3608231.55 | 0.040 | 0.112 | 0.15124 |
| 491875.05 | 3608218.65 | 0.032 | 0.090 | 0.12193 |
| 491878.74 | 3608195.61 | 0.021 | 0.059 | 0.08027 |
| 491885.19 | 3608177.18 | 0.016 | 0.045 | 0.06104 |
| 491807.78 | 3608183.63 | 0.007 | 0.021 | 0.02809 |
| 491812.39 | 3608167.97 | 0.006 | 0.017 | 0.02330 |
| 491819.76 | 3608146.77 | 0.005 | 0.014 | 0.01878 |
| 491840.03 | 3608155.06 | 0.007 | 0.020 | 0.02679 |
| 491868.6 | 3608170.73 | 0.012 | 0.035 | 0.04695 |
| 491865.26 | 3608414.36 | 0.480 | 1.353 | 1.83312 |
| 491867.52 | 3608403.04 | 0.492 | 1.384 | 1.87588 |
| 491872.05 | 3608392.29 | 0.482 | 1.357 | 1.83915 |
| 491874.88 | 3608377.58 | 0.487 | 1.371 | 1.85736 |
| 491886.76 | 3608431.91 | 0.317 | 0.892 | 1.20872 |
| 491890.73 | 3608422.29 | 0.318 | 0.895 | 1.21303 |
| 491896.39 | 3608409.84 | 0.314 | 0.886 | 1.20001 |
| 491900.35 | 3608397.38 | 0.315 | 0.887 | 1.20148 |
| 491903.74 | 3608384.93 | 0.314 | 0.883 | 1.19684 |
| 491912.8 | 3608444.92 | 0.210 | 0.591 | 0.80124 |
| 491917.89 | 3608432.47 | 0.215 | 0.604 | 0.81894 |
| 491921.29 | 3608418.89 | 0.222 | 0.626 | 0.84828 |

| **Maximum Caner Risk** |
|---|
| 2.0 |
| **SDAQMD threshold of significance** |
| 10 |
| **Exceed thresholds?** |
| No |

| | | | | |
|---|---|---|---|---|
| 491926.95 | 3608408.14 | 0.219 | 0.617 | 0.83588 |
| 491930.91 | 3608396.25 | 0.219 | 0.616 | 0.83504 |
| 491950.72 | 3608425.12 | 0.159 | 0.447 | 0.60528 |
| 491954.11 | 3608416.06 | 0.160 | 0.451 | 0.61142 |
| 491959.21 | 3608404.74 | 0.159 | 0.449 | 0.60868 |
| 491984.11 | 3608467.56 | 0.090 | 0.253 | 0.34240 |
| 491987.5 | 3608453.98 | 0.096 | 0.271 | 0.36790 |
| 491993.16 | 3608442.66 | 0.099 | 0.279 | 0.37777 |
| 491998.26 | 3608432.47 | 0.101 | 0.283 | 0.38380 |
| 492002.22 | 3608421.15 | 0.103 | 0.290 | 0.39259 |
| 492012.41 | 3608475.49 | 0.068 | 0.192 | 0.26004 |
| 492015.24 | 3608463.6 | 0.073 | 0.205 | 0.27844 |
| 492020.9 | 3608451.15 | 0.076 | 0.214 | 0.29027 |
| 492024.29 | 3608441.53 | 0.079 | 0.221 | 0.29970 |
| 492028.25 | 3608428.51 | 0.082 | 0.230 | 0.31130 |
| 492037.31 | 3608486.24 | 0.053 | 0.149 | 0.20212 |
| 492042.4 | 3608472.09 | 0.057 | 0.161 | 0.21769 |
| 492046.36 | 3608461.34 | 0.060 | 0.168 | 0.22824 |
| 492050.89 | 3608450.58 | 0.062 | 0.175 | 0.23669 |
| 492055.42 | 3608440.4 | 0.064 | 0.179 | 0.24294 |
| 492065.61 | 3608493.6 | 0.042 | 0.119 | 0.16087 |
| 492069 | 3608481.15 | 0.045 | 0.128 | 0.17313 |
| 492075.23 | 3608469.26 | 0.047 | 0.134 | 0.18098 |
| 492078.06 | 3608457.38 | 0.050 | 0.141 | 0.19150 |
| 492082.59 | 3608446.62 | 0.052 | 0.146 | 0.19783 |
| 491873.18 | 3608334.56 | 0.416 | 1.171 | 1.58617 |
| 491929.78 | 3608349.84 | 0.225 | 0.632 | 0.85703 |
| 491879.97 | 3608317.02 | 0.274 | 0.773 | 1.04715 |
| 491893.22 | 3608305.33 | 0.199 | 0.561 | 0.76069 |
| 491889.89 | 3608289.35 | 0.147 | 0.416 | 0.56304 |
| 491907.21 | 3608277.37 | 0.113 | 0.318 | 0.43055 |
| 491909.87 | 3608246.74 | 0.065 | 0.182 | 0.24636 |
| 491914.53 | 3608232.76 | 0.051 | 0.143 | 0.19331 |
| 491920.52 | 3608219.44 | 0.041 | 0.115 | 0.15584 |
| 491923.85 | 3608203.46 | 0.032 | 0.089 | 0.12050 |
| 491922.52 | 3608187.48 | 0.024 | 0.068 | 0.09229 |
| 491933.84 | 3608176.16 | 0.021 | 0.060 | 0.08143 |
| 491936.5 | 3608332.63 | 0.191 | 0.538 | 0.72939 |
| 491945.82 | 3608306.66 | 0.141 | 0.398 | 0.53863 |
| 491948.49 | 3608292.02 | 0.118 | 0.333 | 0.45125 |
| 491954.48 | 3608266.71 | 0.084 | 0.237 | 0.32115 |
| 491965.8 | 3608249.4 | 0.065 | 0.184 | 0.24925 |
| 491959.81 | 3608230.76 | 0.051 | 0.144 | 0.19507 |
| 491973.12 | 3608219.44 | 0.044 | 0.123 | 0.16688 |

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|---|---|---|---|---|
| 491965.13 | 3608198.8 | 0.033 | 0.092 | 0.12511 |
| 491987.11 | 3608190.14 | 0.030 | 0.085 | 0.11481 |
| 491975.79 | 3608366.59 | 0.146 | 0.411 | 0.55627 |
| 491980.45 | 3608353.27 | 0.138 | 0.389 | 0.52674 |
| 491988.44 | 3608337.29 | 0.124 | 0.349 | 0.47286 |
| 491991.77 | 3608319.32 | 0.112 | 0.314 | 0.42602 |
| 492001.09 | 3608294.68 | 0.090 | 0.253 | 0.34317 |
| 492006.41 | 3608282.03 | 0.079 | 0.224 | 0.30287 |
| 492013.07 | 3608266.05 | 0.067 | 0.190 | 0.25715 |
| 492013.07 | 3608251.4 | 0.059 | 0.166 | 0.22489 |
| 492028.39 | 3608241.41 | 0.051 | 0.144 | 0.19565 |
| 492019.07 | 3608222.77 | 0.044 | 0.123 | 0.16639 |
| 492045.7 | 3608210.78 | 0.037 | 0.104 | 0.14142 |
| 492031.05 | 3608385.23 | 0.092 | 0.259 | 0.35057 |
| 492035.71 | 3608369.92 | 0.090 | 0.254 | 0.34452 |
| 492027.06 | 3608353.27 | 0.096 | 0.270 | 0.36535 |
| 492046.36 | 3608339.96 | 0.082 | 0.232 | 0.31395 |
| 492040.37 | 3608324.64 | 0.082 | 0.232 | 0.31440 |
| 492057.02 | 3608313.32 | 0.072 | 0.202 | 0.27365 |
| 492055.69 | 3608297.34 | 0.068 | 0.190 | 0.25811 |
| 492059.02 | 3608282.03 | 0.061 | 0.173 | 0.23457 |
| 492069.67 | 3608270.04 | 0.055 | 0.154 | 0.20863 |
| 492061.68 | 3608253.4 | 0.051 | 0.143 | 0.19333 |
| 492078.32 | 3608241.41 | 0.044 | 0.124 | 0.16778 |
| 492079.66 | 3608226.76 | 0.039 | 0.111 | 0.15026 |
| 492069.51 | 3608395.3 | 0.069 | 0.194 | 0.26268 |
| 492076.17 | 3608375.99 | 0.068 | 0.192 | 0.26032 |
| 492085.49 | 3608364.01 | 0.065 | 0.183 | 0.24778 |
| 492102.14 | 3608406.62 | 0.054 | 0.153 | 0.20730 |
| 492129.44 | 3608410.61 | 0.046 | 0.129 | 0.17458 |
| 492095.48 | 3608352.69 | 0.061 | 0.172 | 0.23349 |
| 492094.15 | 3608336.04 | 0.061 | 0.172 | 0.23254 |
| 492135.43 | 3608348.69 | 0.049 | 0.137 | 0.18605 |
| 492101.47 | 3608312.74 | 0.056 | 0.158 | 0.21363 |
| 492120.78 | 3608244.15 | 0.039 | 0.109 | 0.14781 |
| 492106.8 | 3608297.42 | 0.052 | 0.147 | 0.19882 |
| 492168.06 | 3608256.14 | 0.034 | 0.097 | 0.13165 |
| 491832.47 | 3608106.99 | 0.003 | 0.010 | 0.01304 |
| 491853.78 | 3608116.31 | 0.005 | 0.013 | 0.01806 |
| 491874.42 | 3608123.64 | 0.006 | 0.018 | 0.02426 |
| 491899.72 | 3608128.96 | 0.009 | 0.024 | 0.03259 |
| 491836.47 | 3608093.01 | 0.003 | 0.009 | 0.01157 |
| 491877.09 | 3608106.33 | 0.005 | 0.015 | 0.01979 |
| 491905.05 | 3608118.98 | 0.008 | 0.022 | 0.02963 |

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|---|---|---|---|---|
| 491907.71 | 3608101.66 | 0.006 | 0.018 | 0.02410 |
| 491883.74 | 3608091.01 | 0.005 | 0.013 | 0.01736 |
| 491848.45 | 3608065.04 | 0.003 | 0.007 | 0.00960 |
| 491853.12 | 3608053.06 | 0.002 | 0.007 | 0.00887 |
| 491873.09 | 3608063.05 | 0.003 | 0.009 | 0.01158 |
| 491909.71 | 3608072.37 | 0.004 | 0.013 | 0.01717 |
| 491921.03 | 3608059.05 | 0.004 | 0.012 | 0.01607 |
| 491925.69 | 3608040.41 | 0.004 | 0.010 | 0.01360 |
| 491856.44 | 3608031.75 | 0.002 | 0.006 | 0.00745 |
| 491867.1 | 3608010.44 | 0.002 | 0.005 | 0.00669 |
| 491875.09 | 3607976.49 | 0.001 | 0.004 | 0.00535 |
| 491918.37 | 3607991.8 | 0.002 | 0.006 | 0.00812 |
| 491945 | 3608000.46 | 0.003 | 0.008 | 0.01043 |
| 491935.09 | 3608141.53 | 0.013 | 0.036 | 0.04924 |
| 491960.9 | 3608152.59 | 0.017 | 0.048 | 0.06503 |
| 491988.54 | 3608164.57 | 0.022 | 0.061 | 0.08305 |
| 491946.15 | 3608114.81 | 0.010 | 0.027 | 0.03652 |
| 491988.54 | 3608129.55 | 0.014 | 0.040 | 0.05352 |
| 492018.04 | 3608107.44 | 0.012 | 0.034 | 0.04548 |
| 491955.37 | 3608089 | 0.007 | 0.021 | 0.02789 |
| 491963.66 | 3608059.51 | 0.005 | 0.015 | 0.02082 |
| 491984.86 | 3608059.51 | 0.006 | 0.017 | 0.02328 |
| 492031.86 | 3608066.89 | 0.008 | 0.023 | 0.03073 |
| 492020.8 | 3608040.16 | 0.006 | 0.017 | 0.02247 |
| 491977.49 | 3608027.26 | 0.004 | 0.012 | 0.01611 |
| 491983.94 | 3608007.9 | 0.004 | 0.010 | 0.01384 |
| 492044.76 | 3608018.04 | 0.005 | 0.015 | 0.02001 |
| 492048.45 | 3608001.45 | 0.005 | 0.013 | 0.01745 |
| 491999.6 | 3607989.47 | 0.003 | 0.009 | 0.01266 |
| 492038.31 | 3608171.95 | 0.025 | 0.071 | 0.09606 |
| 492047.53 | 3608155.36 | 0.021 | 0.060 | 0.08106 |
| 492086.23 | 3608187.61 | 0.028 | 0.080 | 0.10828 |
| 492095.45 | 3608171.03 | 0.024 | 0.069 | 0.09310 |
| 492053.98 | 3608123.1 | 0.015 | 0.043 | 0.05846 |
| 492109.27 | 3608145.22 | 0.019 | 0.055 | 0.07414 |
| 492058.59 | 3608100.06 | 0.012 | 0.034 | 0.04659 |
| 492123.1 | 3608113.89 | 0.015 | 0.042 | 0.05687 |
| 492135.08 | 3608094.53 | 0.013 | 0.036 | 0.04864 |
| 492076.1 | 3608065.04 | 0.009 | 0.025 | 0.03434 |
| 492085.31 | 3608030.02 | 0.007 | 0.019 | 0.02549 |
| 492139.69 | 3608065.96 | 0.010 | 0.028 | 0.03856 |
| 492139.69 | 3608212.5 | 0.030 | 0.086 | 0.11610 |
| 492183.92 | 3608227.24 | 0.029 | 0.081 | 0.11037 |
| 492143.37 | 3608192.22 | 0.027 | 0.075 | 0.10124 |

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|---|---|---|---|---|
| 492194.98 | 3608204.2 | 0.025 | 0.071 | 0.09577 |
| 492203.28 | 3608183.01 | 0.022 | 0.062 | 0.08410 |
| 492151.67 | 3608153.52 | 0.020 | 0.056 | 0.07652 |
| 492197.75 | 3608162.73 | 0.020 | 0.056 | 0.07586 |
| 492159.04 | 3608135.08 | 0.017 | 0.049 | 0.06650 |
| 492164.57 | 3608118.49 | 0.015 | 0.043 | 0.05869 |
| 492219.86 | 3608141.53 | 0.017 | 0.048 | 0.06461 |
| 492223.55 | 3608114.81 | 0.014 | 0.040 | 0.05478 |
| 492231.84 | 3608098.22 | 0.013 | 0.036 | 0.04907 |
| 492170.1 | 3608097.3 | 0.013 | 0.037 | 0.05009 |
| 492180.24 | 3608077.94 | 0.011 | 0.032 | 0.04343 |
| 492183.92 | 3608055.83 | 0.010 | 0.027 | 0.03692 |
| 492218.94 | 3608068.73 | 0.011 | 0.030 | 0.04077 |
| 492246.59 | 3608230.01 | 0.024 | 0.068 | 0.09164 |
| 492239.22 | 3608207.89 | 0.023 | 0.064 | 0.08631 |
| 492241.98 | 3608194.07 | 0.021 | 0.060 | 0.08084 |
| 492246.59 | 3608176.56 | 0.019 | 0.055 | 0.07387 |
| 492257.65 | 3608163.65 | 0.018 | 0.050 | 0.06786 |
| 492261.34 | 3608145.22 | 0.016 | 0.045 | 0.06158 |
| 492266.87 | 3608124.02 | 0.014 | 0.040 | 0.05473 |
| 492272.39 | 3608108.36 | 0.013 | 0.037 | 0.04998 |
| 492277.92 | 3608094.53 | 0.012 | 0.034 | 0.04608 |
| 492285.3 | 3608081.63 | 0.011 | 0.031 | 0.04263 |
| 491685.34 | 3608168.26 | 0.002 | 0.004 | 0.00597 |
| 491689.95 | 3608145.22 | 0.001 | 0.004 | 0.00506 |
| 491694.56 | 3608131.4 | 0.001 | 0.003 | 0.00466 |
| 491698.24 | 3608118.49 | 0.001 | 0.003 | 0.00432 |
| 491701.01 | 3608105.59 | 0.001 | 0.003 | 0.00399 |
| 491703.77 | 3608093.61 | 0.001 | 0.003 | 0.00372 |
| 491707.46 | 3608079.79 | 0.001 | 0.003 | 0.00346 |
| 491713.91 | 3608070.57 | 0.001 | 0.003 | 0.00339 |
| 491715.75 | 3608058.59 | 0.001 | 0.002 | 0.00316 |
| 491720.36 | 3608046.61 | 0.001 | 0.002 | 0.00301 |
| 491732.34 | 3608014.36 | 0.001 | 0.002 | 0.00265 |
| 491735.11 | 3608002.37 | 0.001 | 0.002 | 0.00251 |
| 491735.11 | 3607991.32 | 0.001 | 0.002 | 0.00235 |
| 491744.32 | 3607980.26 | 0.001 | 0.002 | 0.00233 |
| 491747.09 | 3607967.35 | 0.001 | 0.002 | 0.00221 |
| 491755.38 | 3607954.45 | 0.001 | 0.002 | 0.00215 |
| 491759.07 | 3607939.71 | 0.001 | 0.001 | 0.00203 |
| 491636.5 | 3608156.28 | 0.001 | 0.003 | 0.00413 |
| 491618.06 | 3608148.91 | 0.001 | 0.003 | 0.00362 |
| 491598.71 | 3608143.38 | 0.001 | 0.002 | 0.00324 |
| 491579.36 | 3608134.16 | 0.001 | 0.002 | 0.00286 |

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|---|---|---|---|---|
| 491565.53 | 3608132.32 | 0.001 | 0.002 | 0.00271 |
| 491548.94 | 3608123.1 | 0.001 | 0.002 | 0.00244 |
| 491654.01 | 3608119.42 | 0.001 | 0.003 | 0.00342 |
| 491663.22 | 3608133.24 | 0.001 | 0.003 | 0.00395 |
| 491657.69 | 3608106.51 | 0.001 | 0.002 | 0.00318 |
| 491663.22 | 3608094.53 | 0.001 | 0.002 | 0.00301 |
| 491674.28 | 3608094.53 | 0.001 | 0.002 | 0.00317 |
| 491681.65 | 3608086.24 | 0.001 | 0.002 | 0.00311 |
| 491686.26 | 3608072.42 | 0.001 | 0.002 | 0.00291 |
| 491663.22 | 3608078.87 | 0.001 | 0.002 | 0.00272 |
| 491671.52 | 3608072.42 | 0.001 | 0.002 | 0.00271 |
| 491676.12 | 3608058.59 | 0.001 | 0.002 | 0.00254 |
| 491678.89 | 3608048.45 | 0.001 | 0.002 | 0.00242 |
| 491690.87 | 3608053.98 | 0.001 | 0.002 | 0.00266 |
| 491695.48 | 3608035.55 | 0.001 | 0.002 | 0.00243 |
| 491701.93 | 3608024.49 | 0.001 | 0.002 | 0.00236 |
| 491624.52 | 3608121.26 | 0.001 | 0.002 | 0.00307 |
| 491615.3 | 3608116.65 | 0.001 | 0.002 | 0.00289 |
| 491603.32 | 3608112.97 | 0.001 | 0.002 | 0.00271 |
| 491590.42 | 3608107.44 | 0.001 | 0.002 | 0.00252 |
| 491582.12 | 3608104.67 | 0.001 | 0.002 | 0.00242 |
| 491567.38 | 3608101.91 | 0.001 | 0.002 | 0.00229 |
| 491553.55 | 3608094.53 | 0.001 | 0.002 | 0.00212 |
| 491560 | 3608079.79 | 0.001 | 0.001 | 0.00199 |
| 491571.98 | 3608083.47 | 0.001 | 0.002 | 0.00209 |
| 491585.81 | 3608088.08 | 0.001 | 0.002 | 0.00222 |
| 491599.63 | 3608094.53 | 0.001 | 0.002 | 0.00240 |
| 491614.38 | 3608097.3 | 0.001 | 0.002 | 0.00255 |
| 491626.36 | 3608102.83 | 0.001 | 0.002 | 0.00274 |
| 491630.97 | 3608077.94 | 0.001 | 0.002 | 0.00239 |
| 491613.46 | 3608071.49 | 0.001 | 0.002 | 0.00218 |
| 491635.57 | 3608062.28 | 0.001 | 0.002 | 0.00221 |
| 491647.56 | 3608065.04 | 0.001 | 0.002 | 0.00234 |
| 491568.3 | 3608046.61 | 0.000 | 0.001 | 0.00170 |
| 491556.32 | 3608038.32 | 0.000 | 0.001 | 0.00159 |
| 491572.91 | 3608032.79 | 0.000 | 0.001 | 0.00160 |
| 491594.1 | 3608048.45 | 0.000 | 0.001 | 0.00182 |
| 491589.49 | 3608035.55 | 0.000 | 0.001 | 0.00168 |
| 491608.85 | 3608039.24 | 0.000 | 0.001 | 0.00179 |
| 491612.53 | 3608025.41 | 0.000 | 0.001 | 0.00168 |
| 491625.44 | 3608040.16 | 0.000 | 0.001 | 0.00188 |
| 491636.5 | 3608029.1 | 0.000 | 0.001 | 0.00183 |
| 491654.01 | 3608027.26 | 0.001 | 0.001 | 0.00193 |
| 491643.87 | 3608011.59 | 0.000 | 0.001 | 0.00171 |

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|---|---|---|---|---|
| 491667.83 | 3608015.28 | 0.000 | 0.001 | 0.00190 |
| 491689.03 | 3607995 | 0.000 | 0.001 | 0.00188 |
| 491681.65 | 3607976.57 | 0.000 | 0.001 | 0.00165 |
| 491704.69 | 3607986.71 | 0.001 | 0.001 | 0.00194 |
| 491713.91 | 3607971.96 | 0.000 | 0.001 | 0.00188 |
| 491725.89 | 3607958.14 | 0.000 | 0.001 | 0.00187 |
| 491711.15 | 3607949.84 | 0.000 | 0.001 | 0.00166 |
| 491729.58 | 3607943.39 | 0.000 | 0.001 | 0.00176 |
| 491714.83 | 3607935.1 | 0.000 | 0.001 | 0.00157 |
| 491724.97 | 3607923.12 | 0.000 | 0.001 | 0.00156 |
| 491737.87 | 3607928.65 | 0.000 | 0.001 | 0.00171 |
| 491735.11 | 3607910.22 | 0.000 | 0.001 | 0.00154 |
| 491558.16 | 3608010.67 | 0.000 | 0.001 | 0.00140 |
| 491579.36 | 3607998.69 | 0.000 | 0.001 | 0.00137 |
| 491595.95 | 3608003.3 | 0.000 | 0.001 | 0.00144 |
| 491613.46 | 3607995.92 | 0.000 | 0.001 | 0.00145 |
| 491599.63 | 3607983.94 | 0.000 | 0.001 | 0.00132 |
| 491623.59 | 3607979.33 | 0.000 | 0.001 | 0.00137 |
| 491640.18 | 3607983.02 | 0.000 | 0.001 | 0.00146 |
| 491660.46 | 3607968.28 | 0.000 | 0.001 | 0.00146 |
| 491659.54 | 3607951.69 | 0.000 | 0.001 | 0.00134 |
| 491677.05 | 3607950.77 | 0.000 | 0.001 | 0.00143 |
| 491682.58 | 3607937.86 | 0.000 | 0.001 | 0.00138 |
| 491670.6 | 3607928.65 | 0.000 | 0.001 | 0.00126 |
| 491694.56 | 3607921.27 | 0.000 | 0.001 | 0.00134 |
| | | | | |
| 491682.58 | 3607913.9 | 0.000 | 0.001 | 0.00124 |
| 491682.58 | 3607901.92 | 0.000 | 0.001 | 0.00117 |
| 491705.62 | 3607902.84 | 0.000 | 0.001 | 0.00130 |
| 491561.62 | 3607964.09 | 0.000 | 0.001 | 0.00113 |
| 491578.12 | 3607959.66 | 0.000 | 0.001 | 0.00113 |
| 491573.42 | 3607943.99 | 0.000 | 0.001 | 0.00105 |
| 491600.84 | 3607959.66 | 0.000 | 0.001 | 0.00118 |
| 491591.44 | 3607944.77 | 0.000 | 0.001 | 0.00109 |
| 491603.97 | 3607934.59 | 0.000 | 0.001 | 0.00106 |
| 491615.72 | 3607947.91 | 0.000 | 0.001 | 0.00116 |
| 491636.09 | 3607933.02 | 0.000 | 0.001 | 0.00114 |
| 491625.12 | 3607917.35 | 0.000 | 0.001 | 0.00104 |
| 491644.71 | 3607918.92 | 0.000 | 0.001 | 0.00110 |
| 491642.36 | 3607896.99 | 0.000 | 0.001 | 0.00100 |
| 491658.03 | 3607905.6 | 0.000 | 0.001 | 0.00109 |
| 491665.08 | 3607887.59 | 0.000 | 0.001 | 0.00104 |
| 491647.06 | 3607883.67 | 0.000 | 0.001 | 0.00096 |
| 491564.8 | 3607922.84 | 0.000 | 0.001 | 0.00095 |

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|---|---|---|---|---|
| 491587.52 | 3607913.44 | 0.000 | 0.001 | 0.00094 |
| 491573.42 | 3607903.25 | 0.000 | 0.001 | 0.00088 |
| 491607.11 | 3607896.2 | 0.000 | 0.001 | 0.00091 |
| 491603.97 | 3607878.97 | 0.000 | 0.001 | 0.00084 |
| 491621.99 | 3607877.4 | 0.000 | 0.001 | 0.00087 |
| 491892.25 | 3607962.79 | 0.001 | 0.004 | 0.00539 |
| 491943.96 | 3607975.32 | 0.002 | 0.006 | 0.00827 |
| 491586.79 | 3608712.31 | 0.007 | 0.019 | 0.02616 |
| 491579.14 | 3608732.72 | 0.006 | 0.017 | 0.02268 |
| 491579.14 | 3608751.86 | 0.005 | 0.015 | 0.02032 |
| 491563.83 | 3608778.64 | 0.004 | 0.013 | 0.01700 |
| 491558.73 | 3608797.78 | 0.004 | 0.011 | 0.01526 |
| 491545.97 | 3608824.57 | 0.003 | 0.010 | 0.01310 |
| 491543.42 | 3608838.6 | 0.003 | 0.009 | 0.01222 |
| 491534.49 | 3608869.21 | 0.003 | 0.008 | 0.01052 |
| 491635.26 | 3608725.07 | 0.007 | 0.020 | 0.02662 |
| 491665.88 | 3608731.45 | 0.007 | 0.019 | 0.02601 |
| 491654.4 | 3608756.96 | 0.006 | 0.016 | 0.02148 |
| 491627.61 | 3608748.03 | 0.006 | 0.017 | 0.02247 |
| 491621.23 | 3608764.61 | 0.005 | 0.015 | 0.02003 |
| 491651.85 | 3608772.27 | 0.005 | 0.014 | 0.01933 |
| 491635.26 | 3608823.29 | 0.004 | 0.010 | 0.01405 |
| 491608.48 | 3608810.54 | 0.004 | 0.011 | 0.01504 |
| 491603.37 | 3608829.67 | 0.004 | 0.010 | 0.01349 |
| 491627.61 | 3608838.6 | 0.003 | 0.010 | 0.01289 |
| 491622.51 | 3608866.66 | 0.003 | 0.008 | 0.01109 |
| 491590.62 | 3608859.01 | 0.003 | 0.008 | 0.01151 |
| 491586.79 | 3608875.59 | 0.003 | 0.008 | 0.01059 |
| 491617.41 | 3608884.52 | 0.003 | 0.007 | 0.01013 |
| 491707.97 | 3608753.13 | 0.006 | 0.016 | 0.02225 |
| 491702.87 | 3608768.44 | 0.005 | 0.015 | 0.01990 |
| 491696.49 | 3608791.4 | 0.004 | 0.013 | 0.01701 |
| 491688.84 | 3608805.43 | 0.004 | 0.011 | 0.01555 |
| 491683.74 | 3608834.77 | 0.003 | 0.010 | 0.01303 |
| 491674.81 | 3608851.36 | 0.003 | 0.009 | 0.01188 |
| 491669.71 | 3608874.32 | 0.003 | 0.008 | 0.01051 |
| 491667.15 | 3608903.66 | 0.002 | 0.007 | 0.00907 |
| 491741.14 | 3608758.23 | 0.006 | 0.016 | 0.02171 |
| 491733.49 | 3608772.27 | 0.005 | 0.014 | 0.01954 |
| 491727.11 | 3608797.78 | 0.004 | 0.012 | 0.01641 |
| 491720.73 | 3608809.26 | 0.004 | 0.011 | 0.01522 |
| 491711.8 | 3608833.5 | 0.003 | 0.010 | 0.01313 |
| 491706.7 | 3608855.18 | 0.003 | 0.009 | 0.01160 |
| 491701.6 | 3608871.77 | 0.003 | 0.008 | 0.01061 |

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|---|---|---|---|---|
| 491699.05 | 3608899.83 | 0.002 | 0.007 | 0.00919 |
| 491778.13 | 3608770.99 | 0.005 | 0.015 | 0.02048 |
| 491773.03 | 3608791.4 | 0.005 | 0.013 | 0.01773 |
| 491762.83 | 3608811.81 | 0.004 | 0.011 | 0.01540 |
| 491760.28 | 3608828.39 | 0.004 | 0.010 | 0.01390 |
| 491755.17 | 3608851.36 | 0.003 | 0.009 | 0.01213 |
| 491747.52 | 3608869.21 | 0.003 | 0.008 | 0.01095 |
| 491738.59 | 3608884.52 | 0.003 | 0.007 | 0.01005 |
| 491738.59 | 3608902.38 | 0.002 | 0.007 | 0.00919 |
| 491804.92 | 3608781.2 | 0.005 | 0.015 | 0.01965 |
| 491802.37 | 3608806.71 | 0.004 | 0.012 | 0.01660 |
| 491789.61 | 3608822.02 | 0.004 | 0.011 | 0.01490 |
| 491788.34 | 3608839.87 | 0.004 | 0.010 | 0.01339 |
| 491774.31 | 3608853.91 | 0.003 | 0.009 | 0.01219 |
| 491778.13 | 3608875.59 | 0.003 | 0.008 | 0.01089 |
| 491773.03 | 3608892.17 | 0.003 | 0.007 | 0.00995 |
| 491770.48 | 3608916.41 | 0.002 | 0.007 | 0.00881 |
| 491848.29 | 3608793.95 | 0.005 | 0.014 | 0.01864 |
| 491845.74 | 3608815.64 | 0.004 | 0.012 | 0.01629 |
| 491835.54 | 3608834.77 | 0.004 | 0.011 | 0.01447 |
| 491829.16 | 3608859.01 | 0.003 | 0.009 | 0.01257 |
| 491824.06 | 3608874.32 | 0.003 | 0.009 | 0.01153 |
| 491824.06 | 3608890.9 | 0.003 | 0.008 | 0.01058 |
| 491820.23 | 3608904.93 | 0.003 | 0.007 | 0.00983 |
| 491818.95 | 3608924.07 | 0.002 | 0.007 | 0.00895 |
| 491817.68 | 3608940.65 | 0.002 | 0.006 | 0.00828 |
| 491873.81 | 3608822.02 | 0.004 | 0.012 | 0.01582 |
| 491864.88 | 3608842.43 | 0.004 | 0.010 | 0.01408 |
| 491859.77 | 3608864.11 | 0.003 | 0.009 | 0.01249 |
| 491855.95 | 3608878.14 | 0.003 | 0.009 | 0.01159 |
| 491849.57 | 3608899.83 | 0.003 | 0.008 | 0.01034 |
| 491857.22 | 3608915.14 | 0.003 | 0.007 | 0.00965 |
| 491869.98 | 3608930.44 | 0.002 | 0.007 | 0.00906 |
| 491890.39 | 3608932.99 | 0.002 | 0.007 | 0.00905 |
| 491915.9 | 3608818.19 | 0.004 | 0.012 | 0.01594 |
| 491914.63 | 3608838.6 | 0.004 | 0.011 | 0.01430 |
| 491904.42 | 3608855.18 | 0.003 | 0.010 | 0.01317 |
| 491903.14 | 3608874.32 | 0.003 | 0.009 | 0.01196 |
| 491895.49 | 3608897.28 | 0.003 | 0.008 | 0.01070 |
| 491915.9 | 3608899.83 | 0.003 | 0.008 | 0.01057 |
| 491936.31 | 3608902.38 | 0.003 | 0.008 | 0.01038 |
| 491952.89 | 3608910.03 | 0.003 | 0.007 | 0.00995 |
| 491966.93 | 3608922.79 | 0.002 | 0.007 | 0.00934 |
| 491923.55 | 3608947.03 | 0.002 | 0.006 | 0.00856 |

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|---|---|---|---|---|
| 491945.24 | 3608961.06 | 0.002 | 0.006 | 0.00806 |
| 491737.31 | 3608925.34 | 0.002 | 0.006 | 0.00823 |
| CONCUNIT ug | m^3 | 0.000 | 0.000 | |
| DEPUNIT g/m | 2 | 0.000 | 0.000 | |

## Moss Street

**No Mitigation**
**at Sensitive Receptors**

**Chronic Non-Cancer Hazard Index**

**Reference Exposure Level (REL) for DPM:** 5 ug/m3

**CNCHI = DPM/REL**

| X (m) | Y (m) | 2019 DPM (ug/m3) | 2020 DPM (ug/m3) | Max DPM (ug/m3) | CNCHI |
|---|---|---|---|---|---|
| 491856.94 | 3608423.76 | 0.523448 | 0.368526 | 0.523448 | 0.10469 |
| 491770.82 | 3608296.56 | 0.069681 | 0.049329 | 0.069681 | 0.01394 |
| 491786.69 | 3608300.4 | 0.140314 | 0.099031 | 0.140314 | 0.02806 |
| 491777.07 | 3608270.58 | 0.031304 | 0.022164 | 0.031304 | 0.00626 |
| 491794.39 | 3608275.87 | 0.059401 | 0.041941 | 0.059401 | 0.01188 |
| 491789.88 | 3608254.44 | 0.025727 | 0.018192 | 0.025727 | 0.00515 |
| 491793.88 | 3608239.79 | 0.018652 | 0.013188 | 0.018652 | 0.00373 |
| 491796.54 | 3608225.81 | 0.014037 | 0.009924 | 0.014037 | 0.00281 |
| 491799.2 | 3608213.16 | 0.011235 | 0.007942 | 0.011235 | 0.00225 |
| 491804.53 | 3608198.51 | 0.00923 | 0.006522 | 0.00923 | 0.00185 |
| 491835.16 | 3608317.03 | 0.328718 | 0.231535 | 0.328718 | 0.06574 |
| 491837.82 | 3608303.71 | 0.225361 | 0.158765 | 0.225361 | 0.04507 |
| 491843.81 | 3608287.73 | 0.143157 | 0.100871 | 0.143157 | 0.02863 |
| 491851.14 | 3608274.41 | 0.102004 | 0.071882 | 0.102004 | 0.02040 |
| 491863.07 | 3608247.22 | 0.055464 | 0.039093 | 0.055464 | 0.01109 |
| 491867.68 | 3608231.55 | 0.040271 | 0.028388 | 0.040271 | 0.00805 |
| 491875.05 | 3608218.65 | 0.032465 | 0.022886 | 0.032465 | 0.00649 |
| 491878.74 | 3608195.61 | 0.021371 | 0.015067 | 0.021371 | 0.00427 |
| 491885.19 | 3608177.18 | 0.016251 | 0.011458 | 0.016251 | 0.00325 |
| 491807.78 | 3608183.63 | 0.007469 | 0.005276 | 0.007469 | 0.00149 |
| 491812.39 | 3608167.97 | 0.006197 | 0.004376 | 0.006197 | 0.00124 |
| 491819.76 | 3608146.77 | 0.004994 | 0.003525 | 0.004994 | 0.00100 |
| 491840.03 | 3608155.06 | 0.007127 | 0.00503 | 0.007127 | 0.00143 |

| **Maximum Caner Risk** |
|---|
| 0.10 |
| **SDAQMD threshold of significance** |
| 1 |
| **Exceed thresholds?** |
| No |

| | | | | | |
|---|---|---|---|---|---|
| 491868.6 | 3608170.73 | 0.012497 | 0.008813 | 0.012497 | 0.00250 |
| 491865.26 | 3608414.36 | 0.488557 | 0.343963 | 0.488557 | 0.09771 |
| 491867.52 | 3608403.04 | 0.499951 | 0.351987 | 0.499951 | 0.09999 |
| 491872.05 | 3608392.29 | 0.490158 | 0.345095 | 0.490158 | 0.09803 |
| 491874.88 | 3608377.58 | 0.495008 | 0.348513 | 0.495008 | 0.09900 |
| 491886.76 | 3608431.91 | 0.322142 | 0.226802 | 0.322142 | 0.06443 |
| 491890.73 | 3608422.29 | 0.323291 | 0.227612 | 0.323291 | 0.06466 |
| 491896.39 | 3608409.84 | 0.319818 | 0.225168 | 0.319818 | 0.06396 |
| 491900.35 | 3608397.38 | 0.320207 | 0.225444 | 0.320207 | 0.06404 |
| 491903.74 | 3608384.93 | 0.318969 | 0.224575 | 0.318969 | 0.06379 |
| 491912.8 | 3608444.92 | 0.213541 | 0.150343 | 0.213541 | 0.04271 |
| 491917.89 | 3608432.47 | 0.218256 | 0.153664 | 0.218256 | 0.04365 |
| 491921.29 | 3608418.89 | 0.226075 | 0.15917 | 0.226075 | 0.04522 |
| 491926.95 | 3608408.14 | 0.22277 | 0.156844 | 0.22277 | 0.04455 |
| 491930.91 | 3608396.25 | 0.222544 | 0.156686 | 0.222544 | 0.04451 |
| 491950.72 | 3608425.12 | 0.161312 | 0.113574 | 0.161312 | 0.03226 |
| 491954.11 | 3608416.06 | 0.162947 | 0.114726 | 0.162947 | 0.03259 |
| 491959.21 | 3608404.74 | 0.162218 | 0.114213 | 0.162218 | 0.03244 |
| 491984.11 | 3608467.56 | 0.091253 | 0.064248 | 0.091253 | 0.01825 |
| 491987.5 | 3608453.98 | 0.098047 | 0.069032 | 0.098047 | 0.01961 |
| 491993.16 | 3608442.66 | 0.100678 | 0.070885 | 0.100678 | 0.02014 |
| 491998.26 | 3608432.47 | 0.102286 | 0.072017 | 0.102286 | 0.02046 |
| 492002.22 | 3608421.15 | 0.104628 | 0.073666 | 0.104628 | 0.02093 |
| 492012.41 | 3608475.49 | 0.069302 | 0.048794 | 0.069302 | 0.01386 |
| 492015.24 | 3608463.6 | 0.074205 | 0.052246 | 0.074205 | 0.01484 |
| 492020.9 | 3608451.15 | 0.077359 | 0.054467 | 0.077359 | 0.01547 |
| 492024.29 | 3608441.53 | 0.07987 | 0.056235 | 0.07987 | 0.01597 |
| 492028.25 | 3608428.51 | 0.082961 | 0.058412 | 0.082961 | 0.01659 |
| 492037.31 | 3608486.24 | 0.053867 | 0.037927 | 0.053867 | 0.01077 |
| 492042.4 | 3608472.09 | 0.058016 | 0.040848 | 0.058016 | 0.01160 |
| 492046.36 | 3608461.34 | 0.060828 | 0.042828 | 0.060828 | 0.01217 |
| 492050.89 | 3608450.58 | 0.063078 | 0.044412 | 0.063078 | 0.01262 |
| 492055.42 | 3608440.4 | 0.064743 | 0.045585 | 0.064743 | 0.01295 |
| 492065.61 | 3608493.6 | 0.042872 | 0.030186 | 0.042872 | 0.00857 |

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|---|---|---|---|---|---|
| 492069 | 3608481.15 | 0.04614 | 0.032487 | 0.04614 | 0.00923 |
| 492075.23 | 3608469.26 | 0.048233 | 0.03396 | 0.048233 | 0.00965 |
| 492078.06 | 3608457.38 | 0.051036 | 0.035934 | 0.051036 | 0.01021 |
| 492082.59 | 3608446.62 | 0.052722 | 0.037121 | 0.052722 | 0.01054 |
| 491873.18 | 3608334.56 | 0.422703 | 0.297634 | 0.422703 | 0.08454 |
| 491929.78 | 3608349.84 | 0.228397 | 0.160816 | 0.228397 | 0.04568 |
| 491879.97 | 3608317.02 | 0.279038 | 0.196496 | 0.279038 | 0.05581 |
| 491893.22 | 3608305.33 | 0.202694 | 0.142744 | 0.202694 | 0.04054 |
| 491889.89 | 3608289.35 | 0.150013 | 0.105659 | 0.150013 | 0.03000 |
| 491907.21 | 3608277.37 | 0.114712 | 0.080798 | 0.114712 | 0.02294 |
| 491909.87 | 3608246.74 | 0.065627 | 0.046235 | 0.065627 | 0.01313 |
| 491914.53 | 3608232.76 | 0.051493 | 0.03628 | 0.051493 | 0.01030 |
| 491920.52 | 3608219.44 | 0.041509 | 0.029248 | 0.041509 | 0.00830 |
| 491923.85 | 3608203.46 | 0.032093 | 0.022615 | 0.032093 | 0.00642 |
| 491922.52 | 3608187.48 | 0.02458 | 0.017322 | 0.02458 | 0.00492 |
| 491933.84 | 3608176.16 | 0.021688 | 0.015284 | 0.021688 | 0.00434 |
| 491936.5 | 3608332.63 | 0.194373 | 0.136865 | 0.194373 | 0.03887 |
| 491945.82 | 3608306.66 | 0.143531 | 0.101074 | 0.143531 | 0.02871 |
| 491948.49 | 3608292.02 | 0.120241 | 0.084678 | 0.120241 | 0.02405 |
| 491954.48 | 3608266.71 | 0.085567 | 0.060266 | 0.085567 | 0.01711 |
| 491965.8 | 3608249.4 | 0.066408 | 0.046774 | 0.066408 | 0.01328 |
| 491959.81 | 3608230.76 | 0.051969 | 0.036608 | 0.051969 | 0.01039 |
| 491973.12 | 3608219.44 | 0.044459 | 0.031318 | 0.044459 | 0.00889 |
| 491965.13 | 3608198.8 | 0.033327 | 0.023479 | 0.033327 | 0.00667 |
| 491987.11 | 3608190.14 | 0.030584 | 0.021546 | 0.030584 | 0.00612 |
| 491975.79 | 3608366.59 | 0.148246 | 0.10438 | 0.148246 | 0.02965 |
| 491980.45 | 3608353.27 | 0.140373 | 0.098839 | 0.140373 | 0.02807 |
| 491988.44 | 3608337.29 | 0.126012 | 0.08873 | 0.126012 | 0.02520 |
| 491991.77 | 3608319.32 | 0.113526 | 0.079941 | 0.113526 | 0.02271 |
| 492001.09 | 3608294.68 | 0.091444 | 0.064395 | 0.091444 | 0.01829 |
| 492006.41 | 3608282.03 | 0.080702 | 0.056833 | 0.080702 | 0.01614 |
| 492013.07 | 3608266.05 | 0.068519 | 0.048255 | 0.068519 | 0.01370 |
| 492013.07 | 3608251.4 | 0.059922 | 0.042203 | 0.059922 | 0.01198 |
| 492028.39 | 3608241.41 | 0.05213 | 0.036715 | 0.05213 | 0.01043 |

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|---|---|---|---|---|---|
| 492019.07 | 3608222.77 | 0.044331 | 0.031224 | 0.044331 | 0.00887 |
| 492045.7 | 3608210.78 | 0.037679 | 0.026539 | 0.037679 | 0.00754 |
| 492031.05 | 3608385.23 | 0.093426 | 0.065781 | 0.093426 | 0.01869 |
| 492035.71 | 3608369.92 | 0.091814 | 0.064647 | 0.091814 | 0.01836 |
| 492027.06 | 3608353.27 | 0.097363 | 0.068556 | 0.097363 | 0.01947 |
| 492046.36 | 3608339.96 | 0.083663 | 0.058911 | 0.083663 | 0.01673 |
| 492040.37 | 3608324.64 | 0.083783 | 0.058996 | 0.083783 | 0.01676 |
| 492057.02 | 3608313.32 | 0.072923 | 0.05135 | 0.072923 | 0.01458 |
| 492055.69 | 3608297.34 | 0.06878 | 0.048434 | 0.06878 | 0.01376 |
| 492059.02 | 3608282.03 | 0.062505 | 0.044017 | 0.062505 | 0.01250 |
| 492069.67 | 3608270.04 | 0.055593 | 0.03915 | 0.055593 | 0.01112 |
| 492061.68 | 3608253.4 | 0.051514 | 0.036279 | 0.051514 | 0.01030 |
| 492078.32 | 3608241.41 | 0.044706 | 0.031485 | 0.044706 | 0.00894 |
| 492079.66 | 3608226.76 | 0.040035 | 0.028196 | 0.040035 | 0.00801 |
| 492069.51 | 3608395.3 | 0.070004 | 0.049291 | 0.070004 | 0.01400 |
| 492076.17 | 3608375.99 | 0.069373 | 0.048847 | 0.069373 | 0.01387 |
| 492085.49 | 3608364.01 | 0.066031 | 0.046494 | 0.066031 | 0.01321 |
| 492102.14 | 3608406.62 | 0.055246 | 0.038899 | 0.055246 | 0.01105 |
| 492129.44 | 3608410.61 | 0.046525 | 0.032759 | 0.046525 | 0.00930 |
| 492095.48 | 3608352.69 | 0.062222 | 0.043813 | 0.062222 | 0.01244 |
| 492094.15 | 3608336.04 | 0.061969 | 0.043636 | 0.061969 | 0.01239 |
| 492135.43 | 3608348.69 | 0.049581 | 0.034912 | 0.049581 | 0.00992 |
| 492101.47 | 3608312.74 | 0.056929 | 0.040088 | 0.056929 | 0.01139 |
| 492120.78 | 3608244.15 | 0.039385 | 0.027737 | 0.039385 | 0.00788 |
| 492106.8 | 3608297.42 | 0.05298 | 0.037308 | 0.05298 | 0.01060 |
| 492168.06 | 3608256.14 | 0.035079 | 0.024704 | 0.035079 | 0.00702 |
| 491832.47 | 3608106.99 | 0.003469 | 0.002448 | 0.003469 | 0.00069 |
| 491853.78 | 3608116.31 | 0.004807 | 0.003391 | 0.004807 | 0.00096 |
| 491874.42 | 3608123.64 | 0.006457 | 0.004554 | 0.006457 | 0.00129 |
| 491899.72 | 3608128.96 | 0.008677 | 0.006118 | 0.008677 | 0.00174 |
| 491836.47 | 3608093.01 | 0.00308 | 0.002173 | 0.00308 | 0.00062 |
| 491877.09 | 3608106.33 | 0.005268 | 0.003715 | 0.005268 | 0.00105 |
| 491905.05 | 3608118.98 | 0.007889 | 0.005562 | 0.007889 | 0.00158 |
| 491907.71 | 3608101.66 | 0.006415 | 0.004523 | 0.006415 | 0.00128 |

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| 491883.74 | 3608091.01 | 0.004621 | 0.003258 | 0.004621 | 0.00092 |
| 491848.45 | 3608065.04 | 0.002555 | 0.001802 | 0.002555 | 0.00051 |
| 491853.12 | 3608053.06 | 0.002361 | 0.001665 | 0.002361 | 0.00047 |
| 491873.09 | 3608063.05 | 0.003083 | 0.002174 | 0.003083 | 0.00062 |
| 491909.71 | 3608072.37 | 0.004572 | 0.003223 | 0.004572 | 0.00091 |
| 491921.03 | 3608059.05 | 0.004278 | 0.003016 | 0.004278 | 0.00086 |
| 491925.69 | 3608040.41 | 0.003621 | 0.002552 | 0.003621 | 0.00072 |
| 491856.44 | 3608031.75 | 0.001984 | 0.001399 | 0.001984 | 0.00040 |
| 491867.1 | 3608010.44 | 0.001781 | 0.001256 | 0.001781 | 0.00036 |
| 491875.09 | 3607976.49 | 0.001425 | 0.001005 | 0.001425 | 0.00029 |
| 491918.37 | 3607991.8 | 0.002163 | 0.001524 | 0.002163 | 0.00043 |
| 491945 | 3608000.46 | 0.002776 | 0.001957 | 0.002776 | 0.00056 |
| 491935.09 | 3608141.53 | 0.013113 | 0.009242 | 0.013113 | 0.00262 |
| 491960.9 | 3608152.59 | 0.017319 | 0.012204 | 0.017319 | 0.00346 |
| 491988.54 | 3608164.57 | 0.022122 | 0.015586 | 0.022122 | 0.00442 |
| 491946.15 | 3608114.81 | 0.009725 | 0.006854 | 0.009725 | 0.00195 |
| 491988.54 | 3608129.55 | 0.014255 | 0.010044 | 0.014255 | 0.00285 |
| 492018.04 | 3608107.44 | 0.012114 | 0.008535 | 0.012114 | 0.00242 |
| 491955.37 | 3608089 | 0.007427 | 0.005235 | 0.007427 | 0.00149 |
| 491963.66 | 3608059.51 | 0.005544 | 0.003908 | 0.005544 | 0.00111 |
| 491984.86 | 3608059.51 | 0.006201 | 0.00437 | 0.006201 | 0.00124 |
| 492031.86 | 3608066.89 | 0.008186 | 0.005768 | 0.008186 | 0.00164 |
| 492020.8 | 3608040.16 | 0.005984 | 0.004217 | 0.005984 | 0.00120 |
| 491977.49 | 3608027.26 | 0.00429 | 0.003023 | 0.00429 | 0.00086 |
| 491983.94 | 3608007.9 | 0.003687 | 0.002598 | 0.003687 | 0.00074 |
| 492044.76 | 3608018.04 | 0.005329 | 0.003755 | 0.005329 | 0.00107 |
| 492048.45 | 3608001.45 | 0.004648 | 0.003275 | 0.004648 | 0.00093 |
| 491999.6 | 3607989.47 | 0.003372 | 0.002376 | 0.003372 | 0.00067 |
| 492038.31 | 3608171.95 | 0.025592 | 0.018028 | 0.025592 | 0.00512 |
| 492047.53 | 3608155.36 | 0.021594 | 0.015212 | 0.021594 | 0.00432 |
| 492086.23 | 3608187.61 | 0.028848 | 0.020319 | 0.028848 | 0.00577 |
| 492095.45 | 3608171.03 | 0.024804 | 0.017471 | 0.024804 | 0.00496 |
| 492053.98 | 3608123.1 | 0.015572 | 0.01097 | 0.015572 | 0.00311 |
| 492109.27 | 3608145.22 | 0.019752 | 0.013913 | 0.019752 | 0.00395 |

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| 492058.59 | 3608100.06 | 0.01241 | 0.008743 | 0.01241 | 0.00248 |
| 492123.1 | 3608113.89 | 0.015151 | 0.010673 | 0.015151 | 0.00303 |
| 492135.08 | 3608094.53 | 0.012957 | 0.009128 | 0.012957 | 0.00259 |
| 492076.1 | 3608065.04 | 0.009149 | 0.006446 | 0.009149 | 0.00183 |
| 492085.31 | 3608030.02 | 0.00679 | 0.004784 | 0.00679 | 0.00136 |
| 492139.69 | 3608065.96 | 0.010273 | 0.007237 | 0.010273 | 0.00205 |
| 492139.69 | 3608212.5 | 0.030935 | 0.021787 | 0.030935 | 0.00619 |
| 492183.92 | 3608227.24 | 0.02941 | 0.020712 | 0.02941 | 0.00588 |
| 492143.37 | 3608192.22 | 0.026976 | 0.018999 | 0.026976 | 0.00540 |
| 492194.98 | 3608204.2 | 0.025519 | 0.017972 | 0.025519 | 0.00510 |
| 492203.28 | 3608183.01 | 0.022408 | 0.015782 | 0.022408 | 0.00448 |
| 492151.67 | 3608153.52 | 0.020386 | 0.014359 | 0.020386 | 0.00408 |
| 492197.75 | 3608162.73 | 0.020211 | 0.014235 | 0.020211 | 0.00404 |
| 492159.04 | 3608135.08 | 0.017716 | 0.012479 | 0.017716 | 0.00354 |
| 492164.57 | 3608118.49 | 0.015636 | 0.011013 | 0.015636 | 0.00313 |
| 492219.86 | 3608141.53 | 0.017215 | 0.012125 | 0.017215 | 0.00344 |
| 492223.55 | 3608114.81 | 0.014595 | 0.010279 | 0.014595 | 0.00292 |
| 492231.84 | 3608098.22 | 0.013075 | 0.009209 | 0.013075 | 0.00261 |
| 492170.1 | 3608097.3 | 0.013345 | 0.0094 | 0.013345 | 0.00267 |
| 492180.24 | 3608077.94 | 0.011569 | 0.008149 | 0.011569 | 0.00231 |
| 492183.92 | 3608055.83 | 0.009836 | 0.006929 | 0.009836 | 0.00197 |
| 492218.94 | 3608068.73 | 0.010862 | 0.007651 | 0.010862 | 0.00217 |
| 492246.59 | 3608230.01 | 0.024418 | 0.017196 | 0.024418 | 0.00488 |
| 492239.22 | 3608207.89 | 0.022998 | 0.016196 | 0.022998 | 0.00460 |
| 492241.98 | 3608194.07 | 0.02154 | 0.01517 | 0.02154 | 0.00431 |
| 492246.59 | 3608176.56 | 0.019683 | 0.013862 | 0.019683 | 0.00394 |
| 492257.65 | 3608163.65 | 0.01808 | 0.012733 | 0.01808 | 0.00362 |
| 492261.34 | 3608145.22 | 0.016408 | 0.011556 | 0.016408 | 0.00328 |
| 492266.87 | 3608124.02 | 0.014583 | 0.010271 | 0.014583 | 0.00292 |
| 492272.39 | 3608108.36 | 0.013318 | 0.00938 | 0.013318 | 0.00266 |
| 492277.92 | 3608094.53 | 0.012277 | 0.008647 | 0.012277 | 0.00246 |
| 492285.3 | 3608081.63 | 0.011358 | 0.008 | 0.011358 | 0.00227 |
| 491685.34 | 3608168.26 | 0.001585 | 0.001122 | 0.001585 | 0.00032 |
| 491689.95 | 3608145.22 | 0.001344 | 0.000951 | 0.001344 | 0.00027 |

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| 491694.56 | 3608131.4 | 0.001239 | 0.000876 | 0.001239 | 0.00025 |
| 491698.24 | 3608118.49 | 0.001148 | 0.000812 | 0.001148 | 0.00023 |
| 491701.01 | 3608105.59 | 0.001061 | 0.00075 | 0.001061 | 0.00021 |
| 491703.77 | 3608093.61 | 0.00099 | 0.0007 | 0.00099 | 0.00020 |
| 491707.46 | 3608079.79 | 0.00092 | 0.00065 | 0.00092 | 0.00018 |
| 491713.91 | 3608070.57 | 0.0009 | 0.000636 | 0.0009 | 0.00018 |
| 491715.75 | 3608058.59 | 0.000841 | 0.000594 | 0.000841 | 0.00017 |
| 491720.36 | 3608046.61 | 0.000801 | 0.000565 | 0.000801 | 0.00016 |
| 491732.34 | 3608014.36 | 0.000706 | 0.000498 | 0.000706 | 0.00014 |
| 491735.11 | 3608002.37 | 0.000668 | 0.000471 | 0.000668 | 0.00013 |
| 491735.11 | 3607991.32 | 0.000626 | 0.000442 | 0.000626 | 0.00013 |
| 491744.32 | 3607980.26 | 0.000621 | 0.000438 | 0.000621 | 0.00012 |
| 491747.09 | 3607967.35 | 0.000587 | 0.000414 | 0.000587 | 0.00012 |
| 491755.38 | 3607954.45 | 0.000573 | 0.000404 | 0.000573 | 0.00011 |
| 491759.07 | 3607939.71 | 0.00054 | 0.000381 | 0.00054 | 0.00011 |
| 491636.5 | 3608156.28 | 0.001096 | 0.000776 | 0.001096 | 0.00022 |
| 491618.06 | 3608148.91 | 0.000961 | 0.00068 | 0.000961 | 0.00019 |
| 491598.71 | 3608143.38 | 0.000861 | 0.000609 | 0.000861 | 0.00017 |
| 491579.36 | 3608134.16 | 0.000761 | 0.000538 | 0.000761 | 0.00015 |
| 491565.53 | 3608132.32 | 0.00072 | 0.000509 | 0.00072 | 0.00014 |
| 491548.94 | 3608123.1 | 0.000649 | 0.000459 | 0.000649 | 0.00013 |
| 491654.01 | 3608119.42 | 0.000909 | 0.000642 | 0.000909 | 0.00018 |
| 491663.22 | 3608133.24 | 0.001049 | 0.000742 | 0.001049 | 0.00021 |
| 491657.69 | 3608106.51 | 0.000845 | 0.000597 | 0.000845 | 0.00017 |
| 491663.22 | 3608094.53 | 0.000799 | 0.000565 | 0.000799 | 0.00016 |
| 491674.28 | 3608094.53 | 0.000842 | 0.000595 | 0.000842 | 0.00017 |
| 491681.65 | 3608086.24 | 0.000827 | 0.000585 | 0.000827 | 0.00017 |
| 491686.26 | 3608072.42 | 0.000774 | 0.000547 | 0.000774 | 0.00015 |
| 491663.22 | 3608078.87 | 0.000722 | 0.00051 | 0.000722 | 0.00014 |
| 491671.52 | 3608072.42 | 0.000719 | 0.000508 | 0.000719 | 0.00014 |
| 491676.12 | 3608058.59 | 0.000675 | 0.000476 | 0.000675 | 0.00013 |
| 491678.89 | 3608048.45 | 0.000643 | 0.000454 | 0.000643 | 0.00013 |
| 491690.87 | 3608053.98 | 0.000706 | 0.000499 | 0.000706 | 0.00014 |
| 491695.48 | 3608035.55 | 0.000647 | 0.000457 | 0.000647 | 0.00013 |

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| 491701.93 | 3608024.49 | 0.000628 | 0.000443 | 0.000628 | 0.00013 |
| 491624.52 | 3608121.26 | 0.000817 | 0.000578 | 0.000817 | 0.00016 |
| 491615.3 | 3608116.65 | 0.000767 | 0.000542 | 0.000767 | 0.00015 |
| 491603.32 | 3608112.97 | 0.000721 | 0.00051 | 0.000721 | 0.00014 |
| 491590.42 | 3608107.44 | 0.00067 | 0.000474 | 0.00067 | 0.00013 |
| 491582.12 | 3608104.67 | 0.000644 | 0.000455 | 0.000644 | 0.00013 |
| 491567.38 | 3608101.91 | 0.000609 | 0.00043 | 0.000609 | 0.00012 |
| 491553.55 | 3608094.53 | 0.000564 | 0.000398 | 0.000564 | 0.00011 |
| 491560 | 3608079.79 | 0.000529 | 0.000374 | 0.000529 | 0.00011 |
| 491571.98 | 3608083.47 | 0.000556 | 0.000393 | 0.000556 | 0.00011 |
| 491585.81 | 3608088.08 | 0.000591 | 0.000418 | 0.000591 | 0.00012 |
| 491599.63 | 3608094.53 | 0.000637 | 0.00045 | 0.000637 | 0.00013 |
| 491614.38 | 3608097.3 | 0.000677 | 0.000479 | 0.000677 | 0.00014 |
| 491626.36 | 3608102.83 | 0.000729 | 0.000515 | 0.000729 | 0.00015 |
| 491630.97 | 3608077.94 | 0.000634 | 0.000448 | 0.000634 | 0.00013 |
| 491613.46 | 3608071.49 | 0.000578 | 0.000409 | 0.000578 | 0.00012 |
| 491635.57 | 3608062.28 | 0.000586 | 0.000414 | 0.000586 | 0.00012 |
| 491647.56 | 3608065.04 | 0.000622 | 0.000439 | 0.000622 | 0.00012 |
| 491568.3 | 3608046.61 | 0.000453 | 0.00032 | 0.000453 | 0.00009 |
| 491556.32 | 3608038.32 | 0.000424 | 0.000299 | 0.000424 | 0.00008 |
| 491572.91 | 3608032.79 | 0.000425 | 0.0003 | 0.000425 | 0.00009 |
| 491594.1 | 3608048.45 | 0.000483 | 0.000341 | 0.000483 | 0.00010 |
| 491589.49 | 3608035.55 | 0.000447 | 0.000315 | 0.000447 | 0.00009 |
| 491608.85 | 3608039.24 | 0.000477 | 0.000337 | 0.000477 | 0.00010 |
| 491612.53 | 3608025.41 | 0.000447 | 0.000315 | 0.000447 | 0.00009 |
| 491625.44 | 3608040.16 | 0.000501 | 0.000354 | 0.000501 | 0.00010 |
| 491636.5 | 3608029.1 | 0.000487 | 0.000344 | 0.000487 | 0.00010 |
| 491654.01 | 3608027.26 | 0.000512 | 0.000362 | 0.000512 | 0.00010 |
| 491643.87 | 3608011.59 | 0.000454 | 0.000321 | 0.000454 | 0.00009 |
| 491667.83 | 3608015.28 | 0.000506 | 0.000358 | 0.000506 | 0.00010 |
| 491689.03 | 3607995 | 0.000499 | 0.000352 | 0.000499 | 0.00010 |
| 491681.65 | 3607976.57 | 0.000439 | 0.00031 | 0.000439 | 0.00009 |
| 491704.69 | 3607986.71 | 0.000516 | 0.000364 | 0.000516 | 0.00010 |
| 491713.91 | 3607971.96 | 0.000501 | 0.000353 | 0.000501 | 0.00010 |

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| 491725.89 | 3607958.14 | 0.000497 | 0.00035 | 0.000497 | 0.00010 |
| 491711.15 | 3607949.84 | 0.000442 | 0.000312 | 0.000442 | 0.00009 |
| 491729.58 | 3607943.39 | 0.00047 | 0.000331 | 0.00047 | 0.00009 |
| 491714.83 | 3607935.1 | 0.000419 | 0.000295 | 0.000419 | 0.00008 |
| 491724.97 | 3607923.12 | 0.000415 | 0.000293 | 0.000415 | 0.00008 |
| 491737.87 | 3607928.65 | 0.000455 | 0.000321 | 0.000455 | 0.00009 |
| 491735.11 | 3607910.22 | 0.000411 | 0.00029 | 0.000411 | 0.00008 |
| 491558.16 | 3608010.67 | 0.000371 | 0.000262 | 0.000371 | 0.00007 |
| 491579.36 | 3607998.69 | 0.000363 | 0.000256 | 0.000363 | 0.00007 |
| 491595.95 | 3608003.3 | 0.000384 | 0.000271 | 0.000384 | 0.00008 |
| 491613.46 | 3607995.92 | 0.000385 | 0.000272 | 0.000385 | 0.00008 |
| 491599.63 | 3607983.94 | 0.000352 | 0.000248 | 0.000352 | 0.00007 |
| 491623.59 | 3607979.33 | 0.000364 | 0.000257 | 0.000364 | 0.00007 |
| 491640.18 | 3607983.02 | 0.000388 | 0.000274 | 0.000388 | 0.00008 |
| 491660.46 | 3607968.28 | 0.000387 | 0.000273 | 0.000387 | 0.00008 |
| 491659.54 | 3607951.69 | 0.000357 | 0.000252 | 0.000357 | 0.00007 |
| 491677.05 | 3607950.77 | 0.00038 | 0.000268 | 0.00038 | 0.00008 |
| 491682.58 | 3607937.86 | 0.000366 | 0.000258 | 0.000366 | 0.00007 |
| 491670.6 | 3607928.65 | 0.000335 | 0.000236 | 0.000335 | 0.00007 |
| 491694.56 | 3607921.27 | 0.000357 | 0.000252 | 0.000357 | 0.00007 |
| 491682.58 | 3607913.9 | 0.000329 | 0.000232 | 0.000329 | 0.00007 |
| 491682.58 | 3607901.92 | 0.000312 | 0.00022 | 0.000312 | 0.00006 |
| 491705.62 | 3607902.84 | 0.000346 | 0.000244 | 0.000346 | 0.00007 |
| 491561.62 | 3607964.09 | 0.0003 | 0.000212 | 0.0003 | 0.00006 |
| 491578.12 | 3607959.66 | 0.000302 | 0.000213 | 0.000302 | 0.00006 |
| 491573.42 | 3607943.99 | 0.000279 | 0.000197 | 0.000279 | 0.00006 |
| 491600.84 | 3607959.66 | 0.000314 | 0.000222 | 0.000314 | 0.00006 |
| 491591.44 | 3607944.77 | 0.000289 | 0.000204 | 0.000289 | 0.00006 |
| 491603.97 | 3607934.59 | 0.000283 | 0.0002 | 0.000283 | 0.00006 |
| 491615.72 | 3607947.91 | 0.000308 | 0.000217 | 0.000308 | 0.00006 |
| 491636.09 | 3607933.02 | 0.000304 | 0.000215 | 0.000304 | 0.00006 |
| 491625.12 | 3607917.35 | 0.000276 | 0.000195 | 0.000276 | 0.00006 |
| 491644.71 | 3607918.92 | 0.000293 | 0.000207 | 0.000293 | 0.00006 |
| 491642.36 | 3607896.99 | 0.000266 | 0.000188 | 0.000266 | 0.00005 |

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| 491658.03 | 3607905.6 | 0.00029 | 0.000204 | 0.00029 | 0.00006 |
| 491665.08 | 3607887.59 | 0.000276 | 0.000194 | 0.000276 | 0.00006 |
| 491647.06 | 3607883.67 | 0.000255 | 0.00018 | 0.000255 | 0.00005 |
| 491564.8 | 3607922.84 | 0.000252 | 0.000178 | 0.000252 | 0.00005 |
| 491587.52 | 3607913.44 | 0.000251 | 0.000177 | 0.000251 | 0.00005 |
| 491573.42 | 3607903.25 | 0.000235 | 0.000166 | 0.000235 | 0.00005 |
| 491607.11 | 3607896.2 | 0.000242 | 0.000171 | 0.000242 | 0.00005 |
| 491603.97 | 3607878.97 | 0.000225 | 0.000158 | 0.000225 | 0.00004 |
| 491621.99 | 3607877.4 | 0.000232 | 0.000164 | 0.000232 | 0.00005 |
| 491892.25 | 3607962.79 | 0.001435 | 0.001011 | 0.001435 | 0.00029 |
| 491943.96 | 3607975.32 | 0.002202 | 0.001552 | 0.002202 | 0.00044 |
| 491586.79 | 3608712.31 | 0.006971 | 0.004909 | 0.006971 | 0.00139 |
| 491579.14 | 3608732.72 | 0.006044 | 0.004257 | 0.006044 | 0.00121 |
| 491579.14 | 3608751.86 | 0.005415 | 0.003814 | 0.005415 | 0.00108 |
| 491563.83 | 3608778.64 | 0.004531 | 0.003191 | 0.004531 | 0.00091 |
| 491558.73 | 3608797.78 | 0.004066 | 0.002864 | 0.004066 | 0.00081 |
| 491545.97 | 3608824.57 | 0.003492 | 0.002459 | 0.003492 | 0.00070 |
| 491543.42 | 3608838.6 | 0.003257 | 0.002294 | 0.003257 | 0.00065 |
| 491534.49 | 3608869.21 | 0.002804 | 0.001975 | 0.002804 | 0.00056 |
| 491635.26 | 3608725.07 | 0.007092 | 0.004994 | 0.007092 | 0.00142 |
| 491665.88 | 3608731.45 | 0.00693 | 0.00488 | 0.00693 | 0.00139 |
| 491654.4 | 3608756.96 | 0.005724 | 0.004031 | 0.005724 | 0.00114 |
| 491627.61 | 3608748.03 | 0.005988 | 0.004217 | 0.005988 | 0.00120 |
| 491621.23 | 3608764.61 | 0.005337 | 0.003759 | 0.005337 | 0.00107 |
| 491651.85 | 3608772.27 | 0.005151 | 0.003628 | 0.005151 | 0.00103 |
| 491635.26 | 3608823.29 | 0.003745 | 0.002637 | 0.003745 | 0.00075 |
| 491608.48 | 3608810.54 | 0.004008 | 0.002823 | 0.004008 | 0.00080 |
| 491603.37 | 3608829.67 | 0.003595 | 0.002532 | 0.003595 | 0.00072 |
| 491627.61 | 3608838.6 | 0.003434 | 0.002419 | 0.003434 | 0.00069 |
| 491622.51 | 3608866.66 | 0.002955 | 0.002081 | 0.002955 | 0.00059 |
| 491590.62 | 3608859.01 | 0.003068 | 0.002161 | 0.003068 | 0.00061 |
| 491586.79 | 3608875.59 | 0.002822 | 0.001988 | 0.002822 | 0.00056 |
| 491617.41 | 3608884.52 | 0.0027 | 0.001901 | 0.0027 | 0.00054 |
| 491707.97 | 3608753.13 | 0.005929 | 0.004176 | 0.005929 | 0.00119 |

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|---|---|---|---|---|---|
| 491702.87 | 3608768.44 | 0.005302 | 0.003734 | 0.005302 | 0.00106 |
| 491696.49 | 3608791.4 | 0.004533 | 0.003192 | 0.004533 | 0.00091 |
| 491688.84 | 3608805.43 | 0.004143 | 0.002918 | 0.004143 | 0.00083 |
| 491683.74 | 3608834.77 | 0.003473 | 0.002446 | 0.003473 | 0.00069 |
| 491674.81 | 3608851.36 | 0.003166 | 0.00223 | 0.003166 | 0.00063 |
| 491669.71 | 3608874.32 | 0.002801 | 0.001973 | 0.002801 | 0.00056 |
| 491667.15 | 3608903.66 | 0.002416 | 0.001702 | 0.002416 | 0.00048 |
| 491741.14 | 3608758.23 | 0.005784 | 0.004074 | 0.005784 | 0.00116 |
| 491733.49 | 3608772.27 | 0.005207 | 0.003667 | 0.005207 | 0.00104 |
| 491727.11 | 3608797.78 | 0.004373 | 0.00308 | 0.004373 | 0.00087 |
| 491720.73 | 3608809.26 | 0.004056 | 0.002857 | 0.004056 | 0.00081 |
| 491711.8 | 3608833.5 | 0.003497 | 0.002463 | 0.003497 | 0.00070 |
| 491706.7 | 3608855.18 | 0.003091 | 0.002177 | 0.003091 | 0.00062 |
| 491701.6 | 3608871.77 | 0.002826 | 0.00199 | 0.002826 | 0.00057 |
| 491699.05 | 3608899.83 | 0.002449 | 0.001725 | 0.002449 | 0.00049 |
| 491778.13 | 3608770.99 | 0.005457 | 0.003843 | 0.005457 | 0.00109 |
| 491773.03 | 3608791.4 | 0.004725 | 0.003327 | 0.004725 | 0.00094 |
| 491762.83 | 3608811.81 | 0.004105 | 0.002891 | 0.004105 | 0.00082 |
| 491760.28 | 3608828.39 | 0.003704 | 0.002609 | 0.003704 | 0.00074 |
| 491755.17 | 3608851.36 | 0.003233 | 0.002277 | 0.003233 | 0.00065 |
| 491747.52 | 3608869.21 | 0.002916 | 0.002054 | 0.002916 | 0.00058 |
| 491738.59 | 3608884.52 | 0.002677 | 0.001885 | 0.002677 | 0.00054 |
| 491738.59 | 3608902.38 | 0.002449 | 0.001725 | 0.002449 | 0.00049 |
| 491804.92 | 3608781.2 | 0.005237 | 0.003688 | 0.005237 | 0.00105 |
| 491802.37 | 3608806.71 | 0.004424 | 0.003116 | 0.004424 | 0.00088 |
| 491789.61 | 3608822.02 | 0.003969 | 0.002795 | 0.003969 | 0.00079 |
| 491788.34 | 3608839.87 | 0.003569 | 0.002513 | 0.003569 | 0.00071 |
| 491774.31 | 3608853.91 | 0.003247 | 0.002287 | 0.003247 | 0.00065 |
| 491778.13 | 3608875.59 | 0.002901 | 0.002043 | 0.002901 | 0.00058 |
| 491773.03 | 3608892.17 | 0.00265 | 0.001867 | 0.00265 | 0.00053 |
| 491770.48 | 3608916.41 | 0.002348 | 0.001654 | 0.002348 | 0.00047 |
| 491848.29 | 3608793.95 | 0.004967 | 0.003498 | 0.004967 | 0.00099 |
| 491845.74 | 3608815.64 | 0.004341 | 0.003057 | 0.004341 | 0.00087 |
| 491835.54 | 3608834.77 | 0.003855 | 0.002715 | 0.003855 | 0.00077 |

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|---|---|---|---|---|---|
| 491829.16 | 3608859.01 | 0.003348 | 0.002358 | 0.003348 | 0.00067 |
| 491824.06 | 3608874.32 | 0.003071 | 0.002163 | 0.003071 | 0.00061 |
| 491824.06 | 3608890.9 | 0.002819 | 0.001985 | 0.002819 | 0.00056 |
| 491820.23 | 3608904.93 | 0.002619 | 0.001844 | 0.002619 | 0.00052 |
| 491818.95 | 3608924.07 | 0.002385 | 0.00168 | 0.002385 | 0.00048 |
| 491817.68 | 3608940.65 | 0.002205 | 0.001553 | 0.002205 | 0.00044 |
| 491873.81 | 3608822.02 | 0.004216 | 0.002969 | 0.004216 | 0.00084 |
| 491864.88 | 3608842.43 | 0.003751 | 0.002642 | 0.003751 | 0.00075 |
| 491859.77 | 3608864.11 | 0.003329 | 0.002344 | 0.003329 | 0.00067 |
| 491855.95 | 3608878.14 | 0.003087 | 0.002174 | 0.003087 | 0.00062 |
| 491849.57 | 3608899.83 | 0.002755 | 0.00194 | 0.002755 | 0.00055 |
| 491857.22 | 3608915.14 | 0.002572 | 0.001811 | 0.002572 | 0.00051 |
| 491869.98 | 3608930.44 | 0.002415 | 0.001701 | 0.002415 | 0.00048 |
| 491890.39 | 3608932.99 | 0.002412 | 0.001698 | 0.002412 | 0.00048 |
| 491915.9 | 3608818.19 | 0.004246 | 0.00299 | 0.004246 | 0.00085 |
| 491914.63 | 3608838.6 | 0.00381 | 0.002683 | 0.00381 | 0.00076 |
| 491904.42 | 3608855.18 | 0.00351 | 0.002472 | 0.00351 | 0.00070 |
| 491903.14 | 3608874.32 | 0.003188 | 0.002245 | 0.003188 | 0.00064 |
| 491895.49 | 3608897.28 | 0.00285 | 0.002007 | 0.00285 | 0.00057 |
| 491915.9 | 3608899.83 | 0.002816 | 0.001983 | 0.002816 | 0.00056 |
| 491936.31 | 3608902.38 | 0.002767 | 0.001948 | 0.002767 | 0.00055 |
| 491952.89 | 3608910.03 | 0.002651 | 0.001867 | 0.002651 | 0.00053 |
| 491966.93 | 3608922.79 | 0.002488 | 0.001752 | 0.002488 | 0.00050 |
| 491923.55 | 3608947.03 | 0.002282 | 0.001607 | 0.002282 | 0.00046 |
| 491945.24 | 3608961.06 | 0.002147 | 0.001512 | 0.002147 | 0.00043 |
| 491737.31 | 3608925.34 | 0.002194 | 0.001545 | 0.002194 | 0.00044 |
| CONCUNIT ug/ m^3 | | 0 | 0 | 0 | 0.00000 |
| DEPUNIT g/m^ | 2 | 0 | 0 | 0 | 0.00000 |

## Moss Street

**Tier III mitigation**

**Construction Annual DPM Emissions ( as PM10 Exhaust)**

| **Construction Scheduling** | **2019** | | |
|---|---|---|---|
| | 8 | hours/day | |
| | 5 | days/week | |
| | 18 | weeks/year | start from 9/1/2019 |
| | 720 | hours/year | |

**Onsite Construction Area Source Size (m2):** 27603.9 from AERMOD

**Onsite Construction PM10 Emissions**

| **2019** | **Construction Activity** | **Onsite Annual DPM Exhaust Emissions (tons/year)** | **Onsite Annual DPM Exhaust Emissions (g/sec)** | **Onsite DPM Source Exhaust Emissions (g/m2-sec)** |
|---|---|---|---|---|
| | Demolistion | 1.290E-02 | 4.519E-03 | 1.637E-07 |
| | Grading | 1.130E-02 | 3.958E-03 | 1.434E-07 |
| | Building Construction | 1.220E-02 | 4.274E-03 | 1.548E-07 |
| | **Total** | **3.640E-02** | **1.275E-02** | **4.619E-07** |

**Offsite Construction Vehicle PM10 Emissions**

| **2019** | **Construction Activity** | **Offsite Hauling Annual DPM Exhaust Emissions (tons/year)** | **Offsite Vendor Annual DPM Exhaust Emissions (tons/year)** | **Offsite Workers Annual DPM Exhaust Emissions (tons/year)** | |
|---|---|---|---|---|---|
| | Demolistion | 1.100E-04 | 0.000E+00 | 1.000E-05 | |
| | Grading | 1.790E-03 | 0.000E+00 | 1.000E-05 | |
| | Building Construction | 0.000E+00 | 4.700E-04 | 1.300E-04 | |
| | **Total (tons/year)** | **1.900E-03** | **4.700E-04** | **1.500E-04** | **2.520E-03** |
| | **Trip Distance assumed in CalEEMod (mi)** | 20.0 | 7.3 | 10.8 | |
| | **Offsite Project Trip Distance Along Roadway Segment** Project>I5 (mi) | 0.21 | 0.21 | 0.21 | |
| | **Offsite Project Emissions Along Roadway Segment** Project>I-5 (tons/year) | **1.012E-05** | **6.859E-06** | **1.480E-06** | |

| **Offsite Emissions Along Roadway Segment Analyzed** | |
|---|---|
| **Total Offsite Project Exhaust Emissions (tons/year)** | 1.846E-05 |
| **Total Offsite Project Exhaust Emissions (grams/sec)** | **6.467E-06** |

| | |
|---|---|
| **Onsite Exhaust Emissions (tons/year)** | 3.640E-02 |
| **Total Onsite Emissions (tons/year)** | 3.640E-02 |
| **Onsite Exhaust Emissions (g/m2-sec)** | **4.619E-07** |

| | |
|---|---|
| **Total PM@10 Exhaust (tons/year)** | 3.642E-02 |

## Moss Street

**Tier III mitigation**

**Construction Annual DPM Emissions ( as PM10 Exhaust)**

| **Construction Scheduling** | **2020** | |
|---|---|---|
| | 8 | hours/day |
| | 5 | days/week |
| | 48 | weeks/year |
| | 1920 | hours/year |

**Onsite Construction Area Source Size (m2):** 27603.90

**Onsite Construction PM10 Emissions**

| **2020** | **Construction Activity** | **Onsite Annual DPM Exhaust Emissions (tons/year)** | **Onsite Annual DPM Exhaust Emissions (g/sec)** | **Onsite DPM Source Exhaust Emissions (g/m2-sec)** |
|---|---|---|---|---|
| | Building Construction | 9.170E-02 | 1.205E-02 | 4.364E-07 |
| | Paving | 6.090E-03 | 8.000E-04 | 2.898E-08 |
| | Architectural Coating | 1.430E-03 | 1.879E-04 | 6.805E-09 |
| | **Total** | **9.922E-02** | **1.303E-02** | **4.722E-07** |

**Offsite Construction Vehicle PM10 Emissions**

| **2020** | **Construction Activity** | **Offsite Hauling Annual DPM Exhaust Emissions (tons/year)** | **Offsite Vendor Annual DPM Exhaust Emissions (tons/year)** | **Offsite Workers Annual DPM Exhaust Emissions (tons/year)** | |
|---|---|---|---|---|---|
| | Building Construction | 0.000E+00 | 2.260E-03 | 9.700E-04 | |
| | Paving | 0.000E+00 | 0.000E+00 | 1.000E-05 | |
| | Architectural Coating | 0.000E+00 | 0.000E+00 | 3.000E-05 | |
| | **Total (tons/year)** | **0.000E+00** | **2.260E-03** | **1.010E-03** | **3.270E-03** |
| | Trip Distance assumed in CalEEMod (mi) | 20.0 | 7.3 | 10.8 | |
| | Offsite Project Trip Distance Project>I5 (mi) | 0.21 | 0.21 | 0.21 | |
| | **Offsite Project Emissions** Project>Dry Creek Rd>US101 (tons/year) | **0.000E+00** | **6.597E-05** | **1.993E-05** | |

| | |
|---|---|
| **Emissions Along Roadway Segment** | |
| **Offsite Project Exhaust Emissions (tons/year)** | **8.589E-05** |
| **Offsite Project Exhaust Emissions (grams/sec)** | **1.128E-05** |

| | |
|---|---|
| **Onsite Exhaust Emissions (tons/year)** | **9.922E-02** |
| **Total Onsite Emissions (tons/year)** | **9.922E-02** |
| **Onsite Exhaust Emissions (g/m2-sec)** | **4.722E-07** |

| | |
|---|---|
| **Total PM@10 Exhaust (tons/year)** | 9.931E-02 |
| **Total PM10 (tons/year)** | **9.931E-02** |

```
*   AERMOD ( 1808 1): C:\Users\x li\Desktop\34 26.0024 Mos s Street\ constru ction HR
*   AERMET ( 1413 4):
*   MODELING OPTI ONS USED:  Re gDFAULT  CONC ELEV  URB AN
*   PLOT FILE OF ANNUAL VALUES AVERA GED ACROSS 5 YEARS FOR SO URCE GRO
*   FOR A TOTAL OF  38 9 RECEPTORS.
*   FORMA T: (3(1X,F13.5 ),3(1X,F8.2), 2X,A6,2X,A8 ,2X,I8.8, 2X,A8)
*   X Y AVERAGE CONC ZELEV ZHILL ZFLAG AVE
*
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|---|---|---|---|---|---|---|
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| 491770.82 | 3608296.56 | 83768.45212 | 8.75 | 8.75 | 0 | ANNUAL |
| 491786.69 | 3608300.4 | 169029.1196 | 8.95 | 8.95 | 0 | ANNUAL |
| 491777.07 | 3608270.58 | 37629.84601 | 8.83 | 8.83 | 0 | ANNUAL |
| 491794.39 | 3608275.87 | 71537.09153 | 9.05 | 9.05 | 0 | ANNUAL |
| 491789.88 | 3608254.44 | 30952.91267 | 8.99 | 8.99 | 0 | ANNUAL |
| 491793.88 | 3608239.79 | 22440.86907 | 9.04 | 9.04 | 0 | ANNUAL |
| 491796.54 | 3608225.81 | 16889.37505 | 9.08 | 9.08 | 0 | ANNUAL |
| 491799.2 | 3608213.16 | 13520.08898 | 9.11 | 9.11 | 0 | ANNUAL |
| 491804.53 | 3608198.51 | 11109.97723 | 9.18 | 9.18 | 0 | ANNUAL |
| 491835.16 | 3608317.03 | 396533.5888 | 9.57 | 9.57 | 0 | ANNUAL |
| 491837.82 | 3608303.71 | 271820.1418 | 9.6 | 9.6 | 0 | ANNUAL |
| 491843.81 | 3608287.73 | 172647.9047 | 9.68 | 9.68 | 0 | ANNUAL |
| 491851.14 | 3608274.41 | 123009.1203 | 9.78 | 9.78 | 0 | ANNUAL |
| 491863.07 | 3608247.22 | 66875.79104 | 9.93 | 9.93 | 0 | ANNUAL |
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| 491875.05 | 3608218.65 | 39141.4192 | 10.08 | 10.08 | 0 | ANNUAL |
| 491878.74 | 3608195.61 | 25762.88386 | 10.13 | 10.13 | 0 | ANNUAL |
| 491885.19 | 3608177.18 | 19590.4194 | 10.21 | 10.21 | 0 | ANNUAL |
| 491807.78 | 3608183.63 | 8991.73281 | 9.22 | 9.22 | 0 | ANNUAL |
| 491812.39 | 3608167.97 | 7461.70142 | 9.28 | 9.28 | 0 | ANNUAL |
| 491819.76 | 3608146.77 | 6015.00085 | 9.36 | 9.36 | 0 | ANNUAL |
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| 491868.6 | 3608170.73 | 15061.64567 | 10 | 10 | 0 | ANNUAL |
| 491865.26 | 3608414.36 | 589528.9513 | 9.95 | 9.95 | 0 | ANNUAL |
| 491867.52 | 3608403.04 | 603276.5021 | 9.98 | 9.98 | 0 | ANNUAL |
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| 491874.88 | 3608377.58 | 597304.6585 | 10.08 | 10.08 | 0 | ANNUAL |
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| 491890.73 | 3608422.29 | 390103.9893 | 10.28 | 10.28 | 0 | ANNUAL |
| 491896.39 | 3608409.84 | 385911.6877 | 10.35 | 10.35 | 0 | ANNUAL |
| 491900.35 | 3608397.38 | 386378.606 | 10.4 | 10.4 | 0 | ANNUAL |
| 491903.74 | 3608384.93 | 384883.2425 | 10.45 | 10.45 | 0 | ANNUAL |
| 491912.8 | 3608444.92 | 257671.8221 | 10.56 | 10.56 | 0 | ANNUAL |
| 491917.89 | 3608432.47 | 263360.5712 | 10.63 | 10.63 | 0 | ANNUAL |
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| 491926.95 | 3608408.14 | 268804.5308 | 10.74 | 10.74 | 0 | ANNUAL |
| 491930.91 | 3608396.25 | 268530.5384 | 10.79 | 10.79 | 0 | ANNUAL |
| 491950.72 | 3608425.12 | 194646.6309 | 11.05 | 11.05 | 0 | ANNUAL |

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|---|---|---|---|---|---|---|
| 491954.11 | 3608416.06 | 196618.6307 | 11.09 | 11.09 | 0 | ANNUAL |
| 491959.21 | 3608404.74 | 195737.5449 | 11.16 | 11.16 | 0 | ANNUAL |
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| 491987.5 | 3608453.98 | 118307.1477 | 11.52 | 11.52 | 0 | ANNUAL |
| 491993.16 | 3608442.66 | 121481.4834 | 11.59 | 11.59 | 0 | ANNUAL |
| 491998.26 | 3608432.47 | 123421.6186 | 11.66 | 11.66 | 0 | ANNUAL |
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| 492015.24 | 3608463.6 | 89538.12932 | 11.87 | 11.87 | 0 | ANNUAL |
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| 492024.29 | 3608441.53 | 96373.73261 | 11.99 | 11.99 | 0 | ANNUAL |
| 492028.25 | 3608428.51 | 100102.7559 | 12.04 | 12.04 | 0 | ANNUAL |
| 492037.31 | 3608486.24 | 64997.07485 | 12.15 | 12.15 | 0 | ANNUAL |
| 492042.4 | 3608472.09 | 70003.93619 | 12.22 | 12.22 | 0 | ANNUAL |
| 492046.36 | 3608461.34 | 73396.40947 | 12.27 | 12.27 | 0 | ANNUAL |
| 492050.89 | 3608450.58 | 76111.04301 | 12.33 | 12.33 | 0 | ANNUAL |
| 492055.42 | 3608440.4 | 78120.56521 | 12.39 | 12.39 | 0 | ANNUAL |
| 492065.61 | 3608493.6 | 51730.61634 | 12.52 | 12.52 | 0 | ANNUAL |
| 492069 | 3608481.15 | 55673.63012 | 12.56 | 12.56 | 0 | ANNUAL |
| 492075.23 | 3608469.26 | 58198.33458 | 12.64 | 12.64 | 0 | ANNUAL |
| 492078.06 | 3608457.38 | 61580.37877 | 12.68 | 12.68 | 0 | ANNUAL |
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| 491879.97 | 3608317.02 | 336657.7205 | 10.14 | 10.14 | 0 | ANNUAL |
| 491893.22 | 3608305.33 | 244539.0944 | 10.31 | 10.31 | 0 | ANNUAL |
| 491889.89 | 3608289.35 | 180966.3293 | 10.27 | 10.27 | 0 | ANNUAL |
| 491907.21 | 3608277.37 | 138377.9598 | 10.49 | 10.49 | 0 | ANNUAL |
| 491909.87 | 3608246.74 | 79154.74331 | 10.53 | 10.53 | 0 | ANNUAL |
| 491914.53 | 3608232.76 | 62103.64315 | 10.59 | 10.59 | 0 | ANNUAL |
| 491920.52 | 3608219.44 | 50060.99609 | 10.66 | 10.66 | 0 | ANNUAL |
| 491923.85 | 3608203.46 | 38703.0525 | 10.71 | 10.71 | 0 | ANNUAL |
| 491922.52 | 3608187.48 | 29639.67512 | 10.69 | 10.69 | 0 | ANNUAL |
| 491933.84 | 3608176.16 | 26152.75972 | 10.83 | 10.83 | 0 | ANNUAL |
| 491936.5 | 3608332.63 | 234523.5732 | 10.87 | 10.87 | 0 | ANNUAL |
| 491945.82 | 3608306.66 | 173169.8634 | 10.99 | 10.99 | 0 | ANNUAL |
| 491948.49 | 3608292.02 | 145064.0697 | 11.02 | 11.02 | 0 | ANNUAL |
| 491954.48 | 3608266.71 | 103224.5835 | 11.1 | 11.1 | 0 | ANNUAL |
| 491965.8 | 3608249.4 | 80108.96105 | 11.24 | 11.24 | 0 | ANNUAL |
| 491959.81 | 3608230.76 | 62686.59318 | 11.17 | 11.17 | 0 | ANNUAL |
| 491973.12 | 3608219.44 | 53627.38352 | 11.34 | 11.34 | 0 | ANNUAL |
| 491965.13 | 3608198.8 | 40196.10183 | 11.23 | 11.23 | 0 | ANNUAL |
| 491987.11 | 3608190.14 | 36888.98902 | 11.52 | 11.52 | 0 | ANNUAL |
| 491975.79 | 3608366.59 | 178873.4984 | 11.37 | 11.37 | 0 | ANNUAL |
| 491980.45 | 3608353.27 | 169371.4764 | 11.43 | 11.43 | 0 | ANNUAL |
| 491988.44 | 3608337.29 | 152041.2074 | 11.53 | 11.53 | 0 | ANNUAL |
| 491991.77 | 3608319.32 | 136973.1522 | 11.57 | 11.57 | 0 | ANNUAL |

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|---|---|---|---|---|---|---|
| 492001.09 | 3608294.68 | 110325.6905 | 11.69 | 11.69 | 0 | ANNUAL |
| 492006.41 | 3608282.03 | 97363.99563 | 11.76 | 11.76 | 0 | ANNUAL |
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| 492019.07 | 3608222.77 | 53476.99655 | 11.92 | 11.92 | 0 | ANNUAL |
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| 492046.36 | 3608339.96 | 100944.5021 | 12.27 | 12.27 | 0 | ANNUAL |
| 492040.37 | 3608324.64 | 101087.0358 | 12.2 | 12.2 | 0 | ANNUAL |
| 492057.02 | 3608313.32 | 87983.27103 | 12.41 | 12.41 | 0 | ANNUAL |
| 492055.69 | 3608297.34 | 82983.20924 | 12.39 | 12.39 | 0 | ANNUAL |
| 492059.02 | 3608282.03 | 75410.62761 | 12.43 | 12.43 | 0 | ANNUAL |
| 492069.67 | 3608270.04 | 67070.83152 | 12.57 | 12.57 | 0 | ANNUAL |
| 492061.68 | 3608253.4 | 62148.13063 | 12.47 | 12.47 | 0 | ANNUAL |
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| 492079.66 | 3608226.76 | 48297.83936 | 12.7 | 12.7 | 0 | ANNUAL |
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| 492094.15 | 3608336.04 | 74769.00478 | 12.88 | 12.88 | 0 | ANNUAL |
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| 492101.47 | 3608312.74 | 68685.98252 | 12.98 | 12.98 | 0 | ANNUAL |
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| 492168.06 | 3608256.14 | 42321.71042 | 13.83 | 13.83 | 0 | ANNUAL |
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| 491853.78 | 3608116.31 | 5792.22388 | 9.46 | 9.46 | 0 | ANNUAL |
| 491874.42 | 3608123.64 | 7782.89246 | 9.83 | 9.83 | 0 | ANNUAL |
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| 492231.84 | 3608098.22 | 15772.55758 | 14.65 | 14.65 | 0 | ANNUAL |
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| 491579.36 | 3608134.16 | 915.03025 | 6.14 | 6.14 | 0 | ANNUAL |
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| 491657.69 | 3608106.51 | 1016.55434 | 6.85 | 6.85 | 0 | ANNUAL |
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| 491690.87 | 3608053.98 | 850.17689 | 6.73 | 6.73 | 0 | ANNUAL |
| 491695.48 | 3608035.55 | 779.20615 | 6.79 | 6.79 | 0 | ANNUAL |

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| 491599.63 | 3607983.94 | 423.43448 | 5.56 | 5.56 | 0 | ANNUAL |
| 491623.59 | 3607979.33 | 437.88119 | 5.87 | 5.87 | 0 | ANNUAL |

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| 491636.09 | 3607933.02 | 366.04732 | 5.7 | 5.7 | 0 | ANNUAL |
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| 491658.03 | 3607905.6 | 348.86545 | 5.87 | 5.87 | 0 | ANNUAL |
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| 491586.79 | 3608712.31 | 8409.91149 | 6.74 | 6.74 | 0 | ANNUAL |
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| 491579.14 | 3608751.86 | 6533.0195 | 6.43 | 6.43 | 0 | ANNUAL |
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| 491558.73 | 3608797.78 | 4905.57279 | 6.03 | 6.03 | 0 | ANNUAL |
| 491545.97 | 3608824.57 | 4212.34249 | 5.87 | 5.87 | 0 | ANNUAL |
| 491543.42 | 3608838.6 | 3929.01444 | 5.83 | 5.83 | 0 | ANNUAL |
| 491534.49 | 3608869.21 | 3382.56676 | 5.72 | 5.72 | 0 | ANNUAL |
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| 491665.88 | 3608731.45 | 8360.83188 | 8.22 | 8.22 | 0 | ANNUAL |
| 491654.4 | 3608756.96 | 6906.22993 | 7.82 | 7.82 | 0 | ANNUAL |
| 491627.61 | 3608748.03 | 7224.74672 | 7.38 | 7.38 | 0 | ANNUAL |
| 491621.23 | 3608764.61 | 6439.38955 | 7.11 | 7.11 | 0 | ANNUAL |
| 491651.85 | 3608772.27 | 6214.64483 | 7.64 | 7.64 | 0 | ANNUAL |
| 491635.26 | 3608823.29 | 4517.60807 | 7.02 | 7.02 | 0 | ANNUAL |

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| 491608.48 | 3608810.54 | 4835.62481 | 6.67 | 6.67 | 0 | ANNUAL |
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| 491627.61 | 3608838.6 | 4143.13594 | 6.91 | 6.91 | 0 | ANNUAL |
| 491622.51 | 3608866.66 | 3564.66602 | 6.84 | 6.84 | 0 | ANNUAL |
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| 491617.41 | 3608884.52 | 3257.20091 | 6.78 | 6.78 | 0 | ANNUAL |
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| 491688.84 | 3608805.43 | 4998.74356 | 8.39 | 8.39 | 0 | ANNUAL |
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** CONCUNIT ug/ m^3

** DEPUNIT g/m^ 2

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| AREA | 5 | 491701.6 | 3608871.77 |
| AREA | 5 | 491699.05 | 3608899.83 |
| AREA | 5 | 491778.13 | 3608770.99 |
| AREA | 5 | 491773.03 | 3608791.4 |
| AREA | 5 | 491762.83 | 3608811.81 |
| AREA | 5 | 491760.28 | 3608828.39 |
| AREA | 5 | 491755.17 | 3608851.36 |
| AREA | 5 | 491747.52 | 3608869.21 |
| AREA | 5 | 491738.59 | 3608884.52 |
| AREA | 5 | 491738.59 | 3608902.38 |
| AREA | 5 | 491804.92 | 3608781.2 |
| AREA | 5 | 491802.37 | 3608806.71 |
| AREA | 5 | 491789.61 | 3608822.02 |
| AREA | 5 | 491788.34 | 3608839.87 |
| AREA | 5 | 491774.31 | 3608853.91 |
| AREA | 5 | 491778.13 | 3608875.59 |
| AREA | 5 | 491773.03 | 3608892.17 |
| AREA | 5 | 491770.48 | 3608916.41 |
| AREA | 5 | 491848.29 | 3608793.95 |
| AREA | 5 | 491845.74 | 3608815.64 |
| AREA | 5 | 491835.54 | 3608834.77 |
| AREA | 5 | 491829.16 | 3608859.01 |
| AREA | 5 | 491824.06 | 3608874.32 |
| AREA | 5 | 491824.06 | 3608890.9 |
| AREA | 5 | 491820.23 | 3608904.93 |
| AREA | 5 | 491818.95 | 3608924.07 |

| | | | |
|---|---|---|---|
| AREA | 5 | 491817.68 | 3608940.65 |
| AREA | 5 | 491873.81 | 3608822.02 |
| AREA | 5 | 491864.88 | 3608842.43 |
| AREA | 5 | 491859.77 | 3608864.11 |
| AREA | 5 | 491855.95 | 3608878.14 |
| AREA | 5 | 491849.57 | 3608899.83 |
| AREA | 5 | 491857.22 | 3608915.14 |
| AREA | 5 | 491869.98 | 3608930.44 |
| AREA | 5 | 491890.39 | 3608932.99 |
| AREA | 5 | 491915.9 | 3608818.19 |
| AREA | 5 | 491914.63 | 3608838.6 |
| AREA | 5 | 491904.42 | 3608855.18 |
| AREA | 5 | 491903.14 | 3608874.32 |
| AREA | 5 | 491895.49 | 3608897.28 |
| AREA | 5 | 491915.9 | 3608899.83 |
| AREA | 5 | 491936.31 | 3608902.38 |
| AREA | 5 | 491952.89 | 3608910.03 |
| AREA | 5 | 491966.93 | 3608922.79 |
| AREA | 5 | 491923.55 | 3608947.03 |
| AREA | 5 | 491945.24 | 3608961.06 |
| AREA | 5 | 491737.31 | 3608925.34 |

** CONCUNIT ug/ m^3

** DEPUNIT g/m^ 2

li\Desktop\34 26.0024 Mos s Street\ constru ction HR A\construc 2-Jan 12:24

gDFAULT CONC ELEV URB AN
VALUES AVERA GED ACROSS 5 YEARS FOR SO URCE GRO UP: LINE
9 RECEPTORS.
),3(1X,F8.2), 2X,A6,2X,A8 ,2X,I8.8, 2X,A8)

| AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID |
|---|---|---|---|---|---|---|---|
| 2.71215 | 9.85 | 9.85 | 0 | ANNUAL | LINE | | 5 |
| 40.63129 | 8.75 | 8.75 | 0 | ANNUAL | LINE | | 5 |
| 37.16311 | 8.95 | 8.95 | 0 | ANNUAL | LINE | | 5 |
| 18.63654 | 8.83 | 8.83 | 0 | ANNUAL | LINE | | 5 |
| 18.30192 | 9.05 | 9.05 | 0 | ANNUAL | LINE | | 5 |
| 11.83867 | 8.99 | 8.99 | 0 | ANNUAL | LINE | | 5 |
| 8.50172 | 9.04 | 9.04 | 0 | ANNUAL | LINE | | 5 |
| 6.29229 | 9.08 | 9.08 | 0 | ANNUAL | LINE | | 5 |
| 4.82803 | 9.11 | 9.11 | 0 | ANNUAL | LINE | | 5 |
| 3.60052 | 9.18 | 9.18 | 0 | ANNUAL | LINE | | 5 |
| 17.47807 | 9.57 | 9.57 | 0 | ANNUAL | LINE | | 5 |
| 16.36569 | 9.6 | 9.6 | 0 | ANNUAL | LINE | | 5 |
| 13.10984 | 9.68 | 9.68 | 0 | ANNUAL | LINE | | 5 |
| 10.45869 | 9.78 | 9.78 | 0 | ANNUAL | LINE | | 5 |
| 6.89013 | 9.93 | 9.93 | 0 | ANNUAL | LINE | | 5 |
| 5.50992 | 9.99 | 9.99 | 0 | ANNUAL | LINE | | 5 |
| 4.51933 | 10.08 | 10.08 | 0 | ANNUAL | LINE | | 5 |
| 3.29514 | 10.13 | 10.13 | 0 | ANNUAL | LINE | | 5 |
| 2.54421 | 10.21 | 10.21 | 0 | ANNUAL | LINE | | 5 |
| 2.70752 | 9.22 | 9.22 | 0 | ANNUAL | LINE | | 5 |
| 2.04387 | 9.28 | 9.28 | 0 | ANNUAL | LINE | | 5 |
| 1.44327 | 9.36 | 9.36 | 0 | ANNUAL | LINE | | 5 |
| 1.76573 | 9.63 | 9.63 | 0 | ANNUAL | LINE | | 5 |
| 2.33746 | 10 | 10 | 0 | ANNUAL | LINE | | 5 |
| 2.83789 | 9.95 | 9.95 | 0 | ANNUAL | LINE | | 5 |
| 3.15933 | 9.98 | 9.98 | 0 | ANNUAL | LINE | | 5 |
| 3.45016 | 10.04 | 10.04 | 0 | ANNUAL | LINE | | 5 |
| 4.03201 | 10.08 | 10.08 | 0 | ANNUAL | LINE | | 5 |
| 2.05662 | 10.23 | 10.23 | 0 | ANNUAL | LINE | | 5 |
| 2.21408 | 10.28 | 10.28 | 0 | ANNUAL | LINE | | 5 |
| 2.4267 | 10.35 | 10.35 | 0 | ANNUAL | LINE | | 5 |
| 2.6929 | 10.4 | 10.4 | 0 | ANNUAL | LINE | | 5 |
| 3.01035 | 10.45 | 10.45 | 0 | ANNUAL | LINE | | 5 |
| 1.56146 | 10.56 | 10.56 | 0 | ANNUAL | LINE | | 5 |
| 1.71251 | 10.63 | 10.63 | 0 | ANNUAL | LINE | | 5 |
| 1.91468 | 10.67 | 10.67 | 0 | ANNUAL | LINE | | 5 |
| 2.05708 | 10.74 | 10.74 | 0 | ANNUAL | LINE | | 5 |
| 2.25717 | 10.79 | 10.79 | 0 | ANNUAL | LINE | | 5 |
| 1.5442 | 11.05 | 11.05 | 0 | ANNUAL | LINE | | 5 |

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|---|---|---|---|---|---|---|
| 1.64752 | 11.09 | 11.09 | 0 | ANNUAL | LINE | 5 |
| 1.7769 | 11.16 | 11.16 | 0 | ANNUAL | LINE | 5 |
| 0.91756 | 11.47 | 11.47 | 0 | ANNUAL | LINE | 5 |
| 1.01343 | 11.52 | 11.52 | 0 | ANNUAL | LINE | 5 |
| 1.08708 | 11.59 | 11.59 | 0 | ANNUAL | LINE | 5 |
| 1.15656 | 11.66 | 11.66 | 0 | ANNUAL | LINE | 5 |
| 1.24684 | 11.71 | 11.71 | 0 | ANNUAL | LINE | 5 |
| 0.77086 | 11.84 | 11.84 | 0 | ANNUAL | LINE | 5 |
| 0.83799 | 11.87 | 11.87 | 0 | ANNUAL | LINE | 5 |
| 0.90443 | 11.94 | 11.94 | 0 | ANNUAL | LINE | 5 |
| 0.96222 | 11.99 | 11.99 | 0 | ANNUAL | LINE | 5 |
| 1.04776 | 12.04 | 12.04 | 0 | ANNUAL | LINE | 5 |
| 0.64922 | 12.15 | 12.15 | 0 | ANNUAL | LINE | 5 |
| 0.70953 | 12.22 | 12.22 | 0 | ANNUAL | LINE | 5 |
| 0.75843 | 12.27 | 12.27 | 0 | ANNUAL | LINE | 5 |
| 0.80837 | 12.33 | 12.33 | 0 | ANNUAL | LINE | 5 |
| 0.85687 | 12.39 | 12.39 | 0 | ANNUAL | LINE | 5 |
| 0.56015 | 12.52 | 12.52 | 0 | ANNUAL | LINE | 5 |
| 0.60579 | 12.56 | 12.56 | 0 | ANNUAL | LINE | 5 |
| 0.646 | 12.64 | 12.64 | 0 | ANNUAL | LINE | 5 |
| 0.69626 | 12.68 | 12.68 | 0 | ANNUAL | LINE | 5 |
| 0.73928 | 12.73 | 12.73 | 0 | ANNUAL | LINE | 5 |
| 7.44433 | 10.06 | 10.06 | 0 | ANNUAL | LINE | 5 |
| 3.59829 | 10.78 | 10.78 | 0 | ANNUAL | LINE | 5 |
| 7.99283 | 10.14 | 10.14 | 0 | ANNUAL | LINE | 5 |
| 7.09578 | 10.31 | 10.31 | 0 | ANNUAL | LINE | 5 |
| 7.41382 | 10.27 | 10.27 | 0 | ANNUAL | LINE | 5 |
| 6.01035 | 10.49 | 10.49 | 0 | ANNUAL | LINE | 5 |
| 4.98056 | 10.53 | 10.53 | 0 | ANNUAL | LINE | 5 |
| 4.3267 | 10.59 | 10.59 | 0 | ANNUAL | LINE | 5 |
| 3.72852 | 10.66 | 10.66 | 0 | ANNUAL | LINE | 5 |
| 3.15801 | 10.71 | 10.71 | 0 | ANNUAL | LINE | 5 |
| 2.68938 | 10.69 | 10.69 | 0 | ANNUAL | LINE | 5 |
| 2.31799 | 10.83 | 10.83 | 0 | ANNUAL | LINE | 5 |
| 3.92068 | 10.87 | 10.87 | 0 | ANNUAL | LINE | 5 |
| 4.13765 | 10.99 | 10.99 | 0 | ANNUAL | LINE | 5 |
| 4.1747 | 11.02 | 11.02 | 0 | ANNUAL | LINE | 5 |
| 3.92112 | 11.1 | 11.1 | 0 | ANNUAL | LINE | 5 |
| 3.44176 | 11.24 | 11.24 | 0 | ANNUAL | LINE | 5 |
| 3.2761 | 11.17 | 11.17 | 0 | ANNUAL | LINE | 5 |
| 2.85414 | 11.34 | 11.34 | 0 | ANNUAL | LINE | 5 |
| 2.57399 | 11.23 | 11.23 | 0 | ANNUAL | LINE | 5 |
| 2.21423 | 11.52 | 11.52 | 0 | ANNUAL | LINE | 5 |
| 2.25235 | 11.37 | 11.37 | 0 | ANNUAL | LINE | 5 |
| 2.4227 | 11.43 | 11.43 | 0 | ANNUAL | LINE | 5 |
| 2.55377 | 11.53 | 11.53 | 0 | ANNUAL | LINE | 5 |
| 2.73973 | 11.57 | 11.57 | 0 | ANNUAL | LINE | 5 |

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|---|---|---|---|---|---|---|
| 2.77387 | 11.69 | 11.69 | 0 | ANNUAL | LINE | 5 |
| 2.72184 | 11.76 | 11.76 | 0 | ANNUAL | LINE | 5 |
| 2.61058 | 11.85 | 11.85 | 0 | ANNUAL | LINE | 5 |
| 2.56586 | 11.85 | 11.85 | 0 | ANNUAL | LINE | 5 |
| 2.30116 | 12.04 | 12.04 | 0 | ANNUAL | LINE | 5 |
| 2.28757 | 11.92 | 11.92 | 0 | ANNUAL | LINE | 5 |
| 1.92083 | 12.26 | 12.26 | 0 | ANNUAL | LINE | 5 |
| 1.43445 | 12.08 | 12.08 | 0 | ANNUAL | LINE | 5 |
| 1.55699 | 12.14 | 12.14 | 0 | ANNUAL | LINE | 5 |
| 1.81736 | 12.02 | 12.02 | 0 | ANNUAL | LINE | 5 |
| 1.75203 | 12.27 | 12.27 | 0 | ANNUAL | LINE | 5 |
| 1.94963 | 12.2 | 12.2 | 0 | ANNUAL | LINE | 5 |
| 1.84423 | 12.41 | 12.41 | 0 | ANNUAL | LINE | 5 |
| 1.94539 | 12.39 | 12.39 | 0 | ANNUAL | LINE | 5 |
| 1.96082 | 12.43 | 12.43 | 0 | ANNUAL | LINE | 5 |
| 1.86581 | 12.57 | 12.57 | 0 | ANNUAL | LINE | 5 |
| 1.94735 | 12.47 | 12.47 | 0 | ANNUAL | LINE | 5 |
| 1.76457 | 12.68 | 12.68 | 0 | ANNUAL | LINE | 5 |
| 1.71233 | 12.7 | 12.7 | 0 | ANNUAL | LINE | 5 |
| 1.11315 | 12.57 | 12.57 | 0 | ANNUAL | LINE | 5 |
| 1.22143 | 12.65 | 12.65 | 0 | ANNUAL | LINE | 5 |
| 1.25216 | 12.77 | 12.77 | 0 | ANNUAL | LINE | 5 |
| 0.89809 | 12.98 | 12.98 | 0 | ANNUAL | LINE | 5 |
| 0.7854 | 13.33 | 13.33 | 0 | ANNUAL | LINE | 5 |
| 1.26584 | 12.9 | 12.9 | 0 | ANNUAL | LINE | 5 |
| 1.37757 | 12.88 | 12.88 | 0 | ANNUAL | LINE | 5 |
| 1.06697 | 13.41 | 13.41 | 0 | ANNUAL | LINE | 5 |
| 1.44695 | 12.98 | 12.98 | 0 | ANNUAL | LINE | 5 |
| 1.43698 | 13.22 | 13.22 | 0 | ANNUAL | LINE | 5 |
| 1.46755 | 13.04 | 13.04 | 0 | ANNUAL | LINE | 5 |
| 1.15696 | 13.83 | 13.83 | 0 | ANNUAL | LINE | 5 |
| 0.82048 | 9.09 | 9.09 | 0 | ANNUAL | LINE | 5 |
| 1.01929 | 9.46 | 9.46 | 0 | ANNUAL | LINE | 5 |
| 1.19844 | 9.83 | 9.83 | 0 | ANNUAL | LINE | 5 |
| 1.34443 | 10.27 | 10.27 | 0 | ANNUAL | LINE | 5 |
| 0.68642 | 8.99 | 8.99 | 0 | ANNUAL | LINE | 5 |
| 0.95334 | 9.7 | 9.7 | 0 | ANNUAL | LINE | 5 |
| 1.19114 | 10.3 | 10.3 | 0 | ANNUAL | LINE | 5 |
| 0.96262 | 10.25 | 10.25 | 0 | ANNUAL | LINE | 5 |
| 0.79462 | 9.69 | 9.69 | 0 | ANNUAL | LINE | 5 |
| 0.50327 | 8.84 | 8.84 | 0 | ANNUAL | LINE | 5 |
| 0.4441 | 8.8 | 8.8 | 0 | ANNUAL | LINE | 5 |
| 0.54139 | 9.19 | 9.19 | 0 | ANNUAL | LINE | 5 |
| 0.6769 | 10.14 | 10.14 | 0 | ANNUAL | LINE | 5 |
| 0.59639 | 10.35 | 10.35 | 0 | ANNUAL | LINE | 5 |
| 0.49036 | 10.34 | 10.34 | 0 | ANNUAL | LINE | 5 |
| 0.35189 | 8.85 | 8.85 | 0 | ANNUAL | LINE | 5 |

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|---|---|---|---|---|---|---|
| 0.292 | 8.98 | 8.98 | 0 | ANNUAL | LINE | 5 |
| 0.21562 | 9.1 | 9.1 | 0 | ANNUAL | LINE | 5 |
| 0.28963 | 9.83 | 9.83 | 0 | ANNUAL | LINE | 5 |
| 0.34252 | 10.37 | 10.37 | 0 | ANNUAL | LINE | 5 |
| 1.58326 | 10.84 | 10.84 | 0 | ANNUAL | LINE | 5 |
| 1.72935 | 11.18 | 11.18 | 0 | ANNUAL | LINE | 5 |
| 1.81216 | 11.53 | 11.53 | 0 | ANNUAL | LINE | 5 |
| 1.17209 | 10.99 | 10.99 | 0 | ANNUAL | LINE | 5 |
| 1.33436 | 11.53 | 11.53 | 0 | ANNUAL | LINE | 5 |
| 1.06121 | 11.91 | 11.91 | 0 | ANNUAL | LINE | 5 |
| 0.88806 | 11.11 | 11.11 | 0 | ANNUAL | LINE | 5 |
| 0.65486 | 11.22 | 11.22 | 0 | ANNUAL | LINE | 5 |
| 0.67462 | 11.49 | 11.49 | 0 | ANNUAL | LINE | 5 |
| 0.74218 | 12.09 | 12.09 | 0 | ANNUAL | LINE | 5 |
| 0.58284 | 11.78 | 11.78 | 0 | ANNUAL | LINE | 5 |
| 0.48467 | 11.08 | 11.08 | 0 | ANNUAL | LINE | 5 |
| 0.40747 | 10.96 | 10.96 | 0 | ANNUAL | LINE | 5 |
| 0.49104 | 11.84 | 11.84 | 0 | ANNUAL | LINE | 5 |
| 0.42857 | 11.71 | 11.71 | 0 | ANNUAL | LINE | 5 |
| 0.35545 | 10.96 | 10.96 | 0 | ANNUAL | LINE | 5 |
| 1.63629 | 12.17 | 12.17 | 0 | ANNUAL | LINE | 5 |
| 1.43556 | 12.29 | 12.29 | 0 | ANNUAL | LINE | 5 |
| 1.48031 | 12.78 | 12.78 | 0 | ANNUAL | LINE | 5 |
| 1.33609 | 12.9 | 12.9 | 0 | ANNUAL | LINE | 5 |
| 1.13753 | 12.37 | 12.37 | 0 | ANNUAL | LINE | 5 |
| 1.13313 | 13.08 | 13.08 | 0 | ANNUAL | LINE | 5 |
| 0.95426 | 12.43 | 12.43 | 0 | ANNUAL | LINE | 5 |
| 0.9276 | 13.26 | 13.26 | 0 | ANNUAL | LINE | 5 |
| 0.81189 | 13.41 | 13.41 | 0 | ANNUAL | LINE | 5 |
| 0.72072 | 12.65 | 12.65 | 0 | ANNUAL | LINE | 5 |
| 0.55127 | 12.49 | 12.49 | 0 | ANNUAL | LINE | 5 |
| 0.6806 | 13.47 | 13.47 | 0 | ANNUAL | LINE | 5 |
| 1.27558 | 13.47 | 13.47 | 0 | ANNUAL | LINE | 5 |
| 1.08028 | 14.03 | 14.03 | 0 | ANNUAL | LINE | 5 |
| 1.2037 | 13.51 | 13.51 | 0 | ANNUAL | LINE | 5 |
| 1.01145 | 14.17 | 14.17 | 0 | ANNUAL | LINE | 5 |
| 0.94695 | 14.28 | 14.28 | 0 | ANNUAL | LINE | 5 |
| 1.03352 | 13.62 | 13.62 | 0 | ANNUAL | LINE | 5 |
| 0.91938 | 14.21 | 14.21 | 0 | ANNUAL | LINE | 5 |
| 0.93915 | 13.71 | 13.71 | 0 | ANNUAL | LINE | 5 |
| 0.86053 | 13.79 | 13.79 | 0 | ANNUAL | LINE | 5 |
| 0.80792 | 14.49 | 14.49 | 0 | ANNUAL | LINE | 5 |
| 0.73113 | 14.54 | 14.54 | 0 | ANNUAL | LINE | 5 |
| 0.67306 | 14.65 | 14.65 | 0 | ANNUAL | LINE | 5 |
| 0.76825 | 13.86 | 13.86 | 0 | ANNUAL | LINE | 5 |
| 0.68315 | 13.99 | 13.99 | 0 | ANNUAL | LINE | 5 |
| 0.60414 | 14.03 | 14.03 | 0 | ANNUAL | LINE | 5 |

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|---|---|---|---|---|---|---|
| 0.60903 | 14.48 | 14.48 | 0 | ANNUAL | LINE | 5 |
| 0.84615 | 14.83 | 14.83 | 0 | ANNUAL | LINE | 5 |
| 0.86205 | 14.74 | 14.74 | 0 | ANNUAL | LINE | 5 |
| 0.84196 | 14.77 | 14.77 | 0 | ANNUAL | LINE | 5 |
| 0.808 | 14.83 | 14.83 | 0 | ANNUAL | LINE | 5 |
| 0.76159 | 14.98 | 14.98 | 0 | ANNUAL | LINE | 5 |
| 0.72336 | 15.02 | 15.02 | 0 | ANNUAL | LINE | 5 |
| 0.67343 | 15.09 | 15.09 | 0 | ANNUAL | LINE | 5 |
| 0.63341 | 15.16 | 15.16 | 0 | ANNUAL | LINE | 5 |
| 0.59758 | 15.24 | 15.24 | 0 | ANNUAL | LINE | 5 |
| 0.56237 | 15.33 | 15.33 | 0 | ANNUAL | LINE | 5 |
| 0.95379 | 7.66 | 7.66 | 0 | ANNUAL | LINE | 5 |
| 0.68053 | 7.68 | 7.68 | 0 | ANNUAL | LINE | 5 |
| 0.57313 | 7.59 | 7.59 | 0 | ANNUAL | LINE | 5 |
| 0.49193 | 7.49 | 7.49 | 0 | ANNUAL | LINE | 5 |
| 0.42458 | 7.39 | 7.39 | 0 | ANNUAL | LINE | 5 |
| 0.37342 | 7.3 | 7.3 | 0 | ANNUAL | LINE | 5 |
| 0.32522 | 7.19 | 7.19 | 0 | ANNUAL | LINE | 5 |
| 0.30182 | 7.18 | 7.18 | 0 | ANNUAL | LINE | 5 |
| 0.26913 | 7.07 | 7.07 | 0 | ANNUAL | LINE | 5 |
| 0.24322 | 7.11 | 7.11 | 0 | ANNUAL | LINE | 5 |
| 0.18861 | 7.26 | 7.26 | 0 | ANNUAL | LINE | 5 |
| 0.17194 | 7.29 | 7.29 | 0 | ANNUAL | LINE | 5 |
| 0.15735 | 7.29 | 7.29 | 0 | ANNUAL | LINE | 5 |
| 0.14774 | 7.41 | 7.41 | 0 | ANNUAL | LINE | 5 |
| 0.13494 | 7.45 | 7.45 | 0 | ANNUAL | LINE | 5 |
| 0.12526 | 7.55 | 7.55 | 0 | ANNUAL | LINE | 5 |
| 0.11385 | 7.6 | 7.6 | 0 | ANNUAL | LINE | 5 |
| 0.61405 | 7.03 | 7.03 | 0 | ANNUAL | LINE | 5 |
| 0.50736 | 6.8 | 6.8 | 0 | ANNUAL | LINE | 5 |
| 0.42946 | 6.49 | 6.49 | 0 | ANNUAL | LINE | 5 |
| 0.35221 | 6.14 | 6.14 | 0 | ANNUAL | LINE | 5 |
| 0.32156 | 5.95 | 5.95 | 0 | ANNUAL | LINE | 5 |
| 0.2718 | 5.63 | 5.63 | 0 | ANNUAL | LINE | 5 |
| 0.4194 | 6.94 | 6.94 | 0 | ANNUAL | LINE | 5 |
| 0.5141 | 7.21 | 7.21 | 0 | ANNUAL | LINE | 5 |
| 0.36746 | 6.85 | 6.85 | 0 | ANNUAL | LINE | 5 |
| 0.32912 | 6.79 | 6.79 | 0 | ANNUAL | LINE | 5 |
| 0.3411 | 6.93 | 6.93 | 0 | ANNUAL | LINE | 5 |
| 0.31991 | 6.93 | 6.93 | 0 | ANNUAL | LINE | 5 |
| 0.28186 | 6.84 | 6.84 | 0 | ANNUAL | LINE | 5 |
| 0.28068 | 6.62 | 6.62 | 0 | ANNUAL | LINE | 5 |
| 0.27 | 6.65 | 6.65 | 0 | ANNUAL | LINE | 5 |
| 0.23991 | 6.56 | 6.56 | 0 | ANNUAL | LINE | 5 |
| 0.22037 | 6.57 | 6.57 | 0 | ANNUAL | LINE | 5 |
| 0.23929 | 6.73 | 6.73 | 0 | ANNUAL | LINE | 5 |
| 0.20522 | 6.79 | 6.79 | 0 | ANNUAL | LINE | 5 |

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|---|---|---|---|---|---|---|
| 0.18973 | 6.87 | 6.87 | 0 | ANNUAL | LINE | 5 |
| 0.38106 | 6.58 | 6.58 | 0 | ANNUAL | LINE | 5 |
| 0.3492 | 6.41 | 6.41 | 0 | ANNUAL | LINE | 5 |
| 0.31999 | 6.22 | 6.22 | 0 | ANNUAL | LINE | 5 |
| 0.28739 | 5.99 | 5.99 | 0 | ANNUAL | LINE | 5 |
| 0.27053 | 5.86 | 5.86 | 0 | ANNUAL | LINE | 5 |
| 0.24793 | 5.64 | 5.64 | 0 | ANNUAL | LINE | 5 |
| 0.21986 | 5.38 | 5.38 | 0 | ANNUAL | LINE | 5 |
| 0.20076 | 5.31 | 5.31 | 0 | ANNUAL | LINE | 5 |
| 0.21644 | 5.5 | 5.5 | 0 | ANNUAL | LINE | 5 |
| 0.23709 | 5.73 | 5.73 | 0 | ANNUAL | LINE | 5 |
| 0.26452 | 5.97 | 5.97 | 0 | ANNUAL | LINE | 5 |
| 0.28675 | 6.19 | 6.19 | 0 | ANNUAL | LINE | 5 |
| 0.31637 | 6.41 | 6.41 | 0 | ANNUAL | LINE | 5 |
| 0.2525 | 6.19 | 6.19 | 0 | ANNUAL | LINE | 5 |
| 0.22558 | 5.9 | 5.9 | 0 | ANNUAL | LINE | 5 |
| 0.22214 | 6.08 | 6.08 | 0 | ANNUAL | LINE | 5 |
| 0.23548 | 6.27 | 6.27 | 0 | ANNUAL | LINE | 5 |
| 0.16037 | 5.16 | 5.16 | 0 | ANNUAL | LINE | 5 |
| 0.14559 | 5.01 | 5.01 | 0 | ANNUAL | LINE | 5 |
| 0.14698 | 5.22 | 5.22 | 0 | ANNUAL | LINE | 5 |
| 0.17577 | 5.49 | 5.49 | 0 | ANNUAL | LINE | 5 |
| 0.15714 | 5.43 | 5.43 | 0 | ANNUAL | LINE | 5 |
| 0.17041 | 5.68 | 5.68 | 0 | ANNUAL | LINE | 5 |
| 0.15465 | 5.73 | 5.73 | 0 | ANNUAL | LINE | 5 |
| 0.17932 | 5.89 | 5.89 | 0 | ANNUAL | LINE | 5 |
| 0.16872 | 6.03 | 6.03 | 0 | ANNUAL | LINE | 5 |
| 0.17328 | 6.26 | 6.26 | 0 | ANNUAL | LINE | 5 |
| 0.14986 | 6.13 | 6.13 | 0 | ANNUAL | LINE | 5 |
| 0.16255 | 6.43 | 6.43 | 0 | ANNUAL | LINE | 5 |
| 0.1456 | 6.7 | 6.7 | 0 | ANNUAL | LINE | 5 |
| 0.12538 | 6.61 | 6.61 | 0 | ANNUAL | LINE | 5 |
| 0.1415 | 6.91 | 6.91 | 0 | ANNUAL | LINE | 5 |
| 0.12953 | 7.02 | 7.02 | 0 | ANNUAL | LINE | 5 |
| 0.12042 | 7.18 | 7.18 | 0 | ANNUAL | LINE | 5 |
| 0.11043 | 6.99 | 6.99 | 0 | ANNUAL | LINE | 5 |
| 0.10966 | 7.22 | 7.22 | 0 | ANNUAL | LINE | 5 |
| 0.10089 | 7.04 | 7.04 | 0 | ANNUAL | LINE | 5 |
| 0.09521 | 7.17 | 7.17 | 0 | ANNUAL | LINE | 5 |
| 0.10112 | 7.33 | 7.33 | 0 | ANNUAL | LINE | 5 |
| 0.08948 | 7.3 | 7.3 | 0 | ANNUAL | LINE | 5 |
| 0.12114 | 5.03 | 5.03 | 0 | ANNUAL | LINE | 5 |
| 0.11796 | 5.3 | 5.3 | 0 | ANNUAL | LINE | 5 |
| 0.1266 | 5.51 | 5.51 | 0 | ANNUAL | LINE | 5 |
| 0.12513 | 5.74 | 5.74 | 0 | ANNUAL | LINE | 5 |
| 0.11194 | 5.56 | 5.56 | 0 | ANNUAL | LINE | 5 |
| 0.11409 | 5.87 | 5.87 | 0 | ANNUAL | LINE | 5 |

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|---|---|---|---|---|---|---|
| 0.12094 | 6.08 | 6.08 | 0 | ANNUAL | LINE | 5 |
| 0.11369 | 6.34 | 6.34 | 0 | ANNUAL | LINE | 5 |
| 0.10173 | 6.24 | 6.24 | 0 | ANNUAL | LINE | 5 |
| 0.10432 | 6.49 | 6.49 | 0 | ANNUAL | LINE | 5 |
| 0.09695 | 6.52 | 6.52 | 0 | ANNUAL | LINE | 5 |
| 0.0897 | 6.27 | 6.27 | 0 | ANNUAL | LINE | 5 |
| 0.08923 | 6.67 | 6.67 | 0 | ANNUAL | LINE | 5 |
| 0.08368 | 6.42 | 6.42 | 0 | ANNUAL | LINE | 5 |
| 0.078 | 6.37 | 6.37 | 0 | ANNUAL | LINE | 5 |
| 0.08134 | 6.86 | 6.86 | 0 | ANNUAL | LINE | 5 |
| 0.09104 | 5.08 | 5.08 | 0 | ANNUAL | LINE | 5 |
| 0.09175 | 5.24 | 5.24 | 0 | ANNUAL | LINE | 5 |
| 0.08283 | 5.01 | 5.01 | 0 | ANNUAL | LINE | 5 |
| 0.09601 | 5.53 | 5.53 | 0 | ANNUAL | LINE | 5 |
| 0.08613 | 5.25 | 5.25 | 0 | ANNUAL | LINE | 5 |
| 0.08299 | 5.3 | 5.3 | 0 | ANNUAL | LINE | 5 |
| 0.09183 | 5.59 | 5.59 | 0 | ANNUAL | LINE | 5 |
| 0.08695 | 5.7 | 5.7 | 0 | ANNUAL | LINE | 5 |
| 0.07785 | 5.38 | 5.38 | 0 | ANNUAL | LINE | 5 |
| 0.08111 | 5.72 | 5.72 | 0 | ANNUAL | LINE | 5 |
| 0.07132 | 5.46 | 5.46 | 0 | ANNUAL | LINE | 5 |
| 0.07669 | 5.87 | 5.87 | 0 | ANNUAL | LINE | 5 |
| 0.07005 | 5.9 | 5.9 | 0 | ANNUAL | LINE | 5 |
| 0.06677 | 5.45 | 5.45 | 0 | ANNUAL | LINE | 5 |
| 0.07232 | 4.67 | 4.67 | 0 | ANNUAL | LINE | 5 |
| 0.07149 | 4.86 | 4.86 | 0 | ANNUAL | LINE | 5 |
| 0.06604 | 4.57 | 4.57 | 0 | ANNUAL | LINE | 5 |
| 0.06721 | 4.92 | 4.92 | 0 | ANNUAL | LINE | 5 |
| 0.06106 | 4.7 | 4.7 | 0 | ANNUAL | LINE | 5 |
| 0.06223 | 4.91 | 4.91 | 0 | ANNUAL | LINE | 5 |
| 0.20211 | 9.3 | 9.3 | 0 | ANNUAL | LINE | 5 |
| 0.26865 | 10.09 | 10.09 | 0 | ANNUAL | LINE | 5 |
| 0.25537 | 6.74 | 6.74 | 0 | ANNUAL | LINE | 5 |
| 0.22345 | 6.49 | 6.49 | 0 | ANNUAL | LINE | 5 |
| 0.19896 | 6.43 | 6.43 | 0 | ANNUAL | LINE | 5 |
| 0.17032 | 6.11 | 6.11 | 0 | ANNUAL | LINE | 5 |
| 0.1536 | 6.03 | 6.03 | 0 | ANNUAL | LINE | 5 |
| 0.13396 | 5.87 | 5.87 | 0 | ANNUAL | LINE | 5 |
| 0.12516 | 5.83 | 5.83 | 0 | ANNUAL | LINE | 5 |
| 0.10868 | 5.72 | 5.72 | 0 | ANNUAL | LINE | 5 |
| 0.23968 | 7.77 | 7.77 | 0 | ANNUAL | LINE | 5 |
| 0.23355 | 8.22 | 8.22 | 0 | ANNUAL | LINE | 5 |
| 0.19926 | 7.82 | 7.82 | 0 | ANNUAL | LINE | 5 |
| 0.20756 | 7.38 | 7.38 | 0 | ANNUAL | LINE | 5 |
| 0.18774 | 7.11 | 7.11 | 0 | ANNUAL | LINE | 5 |
| 0.1824 | 7.64 | 7.64 | 0 | ANNUAL | LINE | 5 |
| 0.13801 | 7.02 | 7.02 | 0 | ANNUAL | LINE | 5 |

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|---|---|---|---|---|---|---|
| 0.14544 | 6.67 | 6.67 | 0 | ANNUAL | LINE | 5 |
| 0.13187 | 6.6 | 6.6 | 0 | ANNUAL | LINE | 5 |
| 0.12751 | 6.91 | 6.91 | 0 | ANNUAL | LINE | 5 |
| 0.11155 | 6.84 | 6.84 | 0 | ANNUAL | LINE | 5 |
| 0.11431 | 6.44 | 6.44 | 0 | ANNUAL | LINE | 5 |
| 0.10597 | 6.39 | 6.39 | 0 | ANNUAL | LINE | 5 |
| 0.1028 | 6.78 | 6.78 | 0 | ANNUAL | LINE | 5 |
| 0.20753 | 8.91 | 8.91 | 0 | ANNUAL | LINE | 5 |
| 0.18982 | 8.78 | 8.78 | 0 | ANNUAL | LINE | 5 |
| 0.16695 | 8.59 | 8.59 | 0 | ANNUAL | LINE | 5 |
| 0.15457 | 8.39 | 8.39 | 0 | ANNUAL | LINE | 5 |
| 0.13298 | 8.26 | 8.26 | 0 | ANNUAL | LINE | 5 |
| 0.12236 | 8.03 | 8.03 | 0 | ANNUAL | LINE | 5 |
| 0.10986 | 7.9 | 7.9 | 0 | ANNUAL | LINE | 5 |
| 0.09656 | 7.83 | 7.83 | 0 | ANNUAL | LINE | 5 |
| 0.20192 | 9.36 | 9.36 | 0 | ANNUAL | LINE | 5 |
| 0.18683 | 9.27 | 9.27 | 0 | ANNUAL | LINE | 5 |
| 0.16283 | 9.18 | 9.18 | 0 | ANNUAL | LINE | 5 |
| 0.15316 | 9.1 | 9.1 | 0 | ANNUAL | LINE | 5 |
| 0.13521 | 8.97 | 8.97 | 0 | ANNUAL | LINE | 5 |
| 0.12169 | 8.84 | 8.84 | 0 | ANNUAL | LINE | 5 |
| 0.11253 | 8.71 | 8.71 | 0 | ANNUAL | LINE | 5 |
| 0.09935 | 8.65 | 8.65 | 0 | ANNUAL | LINE | 5 |
| 0.18625 | 9.84 | 9.84 | 0 | ANNUAL | LINE | 5 |
| 0.16812 | 9.77 | 9.77 | 0 | ANNUAL | LINE | 5 |
| 0.15217 | 9.64 | 9.64 | 0 | ANNUAL | LINE | 5 |
| 0.14044 | 9.61 | 9.61 | 0 | ANNUAL | LINE | 5 |
| 0.12606 | 9.54 | 9.54 | 0 | ANNUAL | LINE | 5 |
| 0.11604 | 9.44 | 9.44 | 0 | ANNUAL | LINE | 5 |
| 0.10809 | 9.33 | 9.33 | 0 | ANNUAL | LINE | 5 |
| 0.1001 | 9.33 | 9.33 | 0 | ANNUAL | LINE | 5 |
| 0.17405 | 10.18 | 10.18 | 0 | ANNUAL | LINE | 5 |
| 0.15414 | 10.15 | 10.15 | 0 | ANNUAL | LINE | 5 |
| 0.14421 | 9.98 | 9.98 | 0 | ANNUAL | LINE | 5 |
| 0.13287 | 9.97 | 9.97 | 0 | ANNUAL | LINE | 5 |
| 0.12485 | 9.79 | 9.79 | 0 | ANNUAL | LINE | 5 |
| 0.1135 | 9.84 | 9.84 | 0 | ANNUAL | LINE | 5 |
| 0.10568 | 9.77 | 9.77 | 0 | ANNUAL | LINE | 5 |
| 0.09553 | 9.74 | 9.74 | 0 | ANNUAL | LINE | 5 |
| 0.15787 | 10.73 | 10.73 | 0 | ANNUAL | LINE | 5 |
| 0.14361 | 10.7 | 10.7 | 0 | ANNUAL | LINE | 5 |
| 0.13316 | 10.57 | 10.57 | 0 | ANNUAL | LINE | 5 |
| 0.12055 | 10.49 | 10.49 | 0 | ANNUAL | LINE | 5 |
| 0.11337 | 10.42 | 10.42 | 0 | ANNUAL | LINE | 5 |
| 0.10597 | 10.42 | 10.42 | 0 | ANNUAL | LINE | 5 |
| 0.1003 | 10.37 | 10.37 | 0 | ANNUAL | LINE | 5 |
| 0.09309 | 10.36 | 10.36 | 0 | ANNUAL | LINE | 5 |

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|---|---|---|---|---|---|---|
| 0.0874 | 10.34 | 10.34 | 0 | ANNUAL | LINE | 5 |
| 0.13605 | 11.06 | 11.06 | 0 | ANNUAL | LINE | 5 |
| 0.12605 | 10.95 | 10.95 | 0 | ANNUAL | LINE | 5 |
| 0.1159 | 10.88 | 10.88 | 0 | ANNUAL | LINE | 5 |
| 0.1099 | 10.83 | 10.83 | 0 | ANNUAL | LINE | 5 |
| 0.10134 | 10.75 | 10.75 | 0 | ANNUAL | LINE | 5 |
| 0.09528 | 10.85 | 10.85 | 0 | ANNUAL | LINE | 5 |
| 0.08953 | 11.01 | 11.01 | 0 | ANNUAL | LINE | 5 |
| 0.0877 | 11.27 | 11.27 | 0 | ANNUAL | LINE | 5 |
| 0.13148 | 11.6 | 11.6 | 0 | ANNUAL | LINE | 5 |
| 0.12148 | 11.58 | 11.58 | 0 | ANNUAL | LINE | 5 |
| 0.11528 | 11.45 | 11.45 | 0 | ANNUAL | LINE | 5 |
| 0.10735 | 11.43 | 11.43 | 0 | ANNUAL | LINE | 5 |
| 0.09929 | 11.34 | 11.34 | 0 | ANNUAL | LINE | 5 |
| 0.09661 | 11.6 | 11.6 | 0 | ANNUAL | LINE | 5 |
| 0.09379 | 11.86 | 11.86 | 0 | ANNUAL | LINE | 5 |
| 0.08973 | 12.07 | 12.07 | 0 | ANNUAL | LINE | 5 |
| 0.08465 | 12.25 | 12.25 | 0 | ANNUAL | LINE | 5 |
| 0.0816 | 11.69 | 11.69 | 0 | ANNUAL | LINE | 5 |
| 0.07653 | 11.97 | 11.97 | 0 | ANNUAL | LINE | 5 |
| 0.09097 | 9.31 | 9.31 | 0 | ANNUAL | LINE | 5 |

# Moss Street

**2019** **Tier III mitigation**

**Construction Annual DPM Emissions ( as PM10 Exhaust)**

| X (m) | Y (m) | Onsite Area Source Annual DPM Exhaust w/Unit Emissions (ug/m3) | Onsite Annual DPM Exhaust w/Actual Emissions (ug/m3) | Offsite L1 Annual DPM Exhaust w/Unit Emissions (ug/m3) | Offsite Annual DPM Exhaust w/Actual Emissions (ug/m3) | Total DPM (ug/m3) |
|---|---|---|---|---|---|---|
| 491856.94 | 3608423.76 | 631633.5918 | 0.29177 | 2.71215 | 1.75387E-05 | 0.29179 |
| 491770.82 | 3608296.56 | 83768.45212 | 0.03870 | 40.63129 | 2.62751E-04 | 0.03896 |
| 491786.69 | 3608300.4 | 169029.1196 | 0.07808 | 37.16311 | 2.40324E-04 | 0.07832 |
| 491777.07 | 3608270.58 | 37629.84601 | 0.01738 | 18.63654 | 1.20517E-04 | 0.01750 |
| 491794.39 | 3608275.87 | 71537.09153 | 0.03305 | 18.30192 | 1.18353E-04 | 0.03316 |
| 491789.88 | 3608254.44 | 30952.91267 | 0.01430 | 11.83867 | 7.65574E-05 | 0.01437 |
| 491793.88 | 3608239.79 | 22440.86907 | 0.01037 | 8.50172 | 5.49783E-05 | 0.01042 |
| 491796.54 | 3608225.81 | 16889.37505 | 0.00780 | 6.29229 | 4.06905E-05 | 0.00784 |
| 491799.2 | 3608213.16 | 13520.08898 | 0.00625 | 4.82803 | 3.12215E-05 | 0.00628 |
| 491804.53 | 3608198.51 | 11109.97723 | 0.00513 | 3.60052 | 2.32836E-05 | 0.00516 |
| 491835.16 | 3608317.03 | 396533.5888 | 0.18317 | 17.47807 | 1.13026E-04 | 0.18329 |
| 491837.82 | 3608303.71 | 271820.1418 | 0.12556 | 16.36569 | 1.05832E-04 | 0.12567 |
| 491843.81 | 3608287.73 | 172647.9047 | 0.07975 | 13.10984 | 8.47777E-05 | 0.07984 |
| 491851.14 | 3608274.41 | 123009.1203 | 0.05682 | 10.45869 | 6.76335E-05 | 0.05689 |
| 491863.07 | 3608247.22 | 66875.79104 | 0.03089 | 6.89013 | 4.45566E-05 | 0.03094 |
| 491867.68 | 3608231.55 | 48552.36905 | 0.02243 | 5.50992 | 3.56311E-05 | 0.02246 |
| 491875.05 | 3608218.65 | 39141.4192 | 0.01808 | 4.51933 | 2.92253E-05 | 0.01811 |
| 491878.74 | 3608195.61 | 25762.88386 | 0.01190 | 3.29514 | 2.13088E-05 | 0.01192 |
| 491885.19 | 3608177.18 | 19590.4194 | 0.00905 | 2.54421 | 1.64527E-05 | 0.00907 |
| 491807.78 | 3608183.63 | 8991.73281 | 0.00415 | 2.70752 | 1.75088E-05 | 0.00417 |
| 491812.39 | 3608167.97 | 7461.70142 | 0.00345 | 2.04387 | 1.32171E-05 | 0.00346 |
| 491819.76 | 3608146.77 | 6015.00085 | 0.00278 | 1.44327 | 9.33323E-06 | 0.00279 |
| 491840.03 | 3608155.06 | 8586.85941 | 0.00397 | 1.76573 | 1.14185E-05 | 0.00398 |
| 491868.6 | 3608170.73 | 15061.64567 | 0.00696 | 2.33746 | 1.51157E-05 | 0.00697 |
| 491865.26 | 3608414.36 | 589528.9513 | 0.27232 | 2.83789 | 1.83519E-05 | 0.27234 |
| 491867.52 | 3608403.04 | 603276.5021 | 0.27868 | 3.15933 | 2.04305E-05 | 0.27870 |
| 491872.05 | 3608392.29 | 591456.4074 | 0.27321 | 3.45016 | 2.23112E-05 | 0.27324 |
| 491874.88 | 3608377.58 | 597304.6585 | 0.27592 | 4.03201 | 2.60739E-05 | 0.27594 |
| 491886.76 | 3608431.91 | 388718.8886 | 0.17956 | 2.05662 | 1.32996E-05 | 0.17958 |
| 491890.73 | 3608422.29 | 390103.9893 | 0.18020 | 2.21408 | 1.43178E-05 | 0.18022 |
| 491896.39 | 3608409.84 | 385911.6877 | 0.17827 | 2.42670 | 1.56928E-05 | 0.17828 |
| 491900.35 | 3608397.38 | 386378.606 | 0.17848 | 2.69290 | 1.74142E-05 | 0.17850 |
| 491903.74 | 3608384.93 | 384883.2425 | 0.17779 | 3.01035 | 1.94671E-05 | 0.17781 |
| 491912.8 | 3608444.92 | 257671.8221 | 0.11903 | 1.56146 | 1.00975E-05 | 0.11904 |
| 491917.89 | 3608432.47 | 263360.5712 | 0.12166 | 1.71251 | 1.10743E-05 | 0.12167 |
| 491921.29 | 3608418.89 | 272794.7326 | 0.12601 | 1.91468 | 1.23817E-05 | 0.12603 |
| 491926.95 | 3608408.14 | 268804.5308 | 0.12417 | 2.05708 | 1.33026E-05 | 0.12418 |
| 491930.91 | 3608396.25 | 268530.5384 | 0.12404 | 2.25717 | 1.45965E-05 | 0.12406 |
| 491950.72 | 3608425.12 | 194646.6309 | 0.08991 | 1.54420 | 9.98592E-06 | 0.08992 |
| 491954.11 | 3608416.06 | 196618.6307 | 0.09083 | 1.64752 | 1.06541E-05 | 0.09084 |
| 491959.21 | 3608404.74 | 195737.5449 | 0.09042 | 1.77690 | 1.14907E-05 | 0.09043 |
| 491984.11 | 3608467.56 | 110109.8527 | 0.05086 | 0.91756 | 5.93361E-06 | 0.05087 |
| 491987.5 | 3608453.98 | 118307.1477 | 0.05465 | 1.01343 | 6.55357E-06 | 0.05466 |
| 491993.16 | 3608442.66 | 121481.4834 | 0.05612 | 1.08708 | 7.02985E-06 | 0.05612 |
| 491998.26 | 3608432.47 | 123421.6186 | 0.05701 | 1.15656 | 7.47916E-06 | 0.05702 |
| 492002.22 | 3608421.15 | 126246.5201 | 0.05832 | 1.24684 | 8.06297E-06 | 0.05833 |
| 492012.41 | 3608475.49 | 83621.49564 | 0.03863 | 0.77086 | 4.98494E-06 | 0.03863 |
| 492015.24 | 3608463.6 | 89538.12932 | 0.04136 | 0.83799 | 5.41905E-06 | 0.04137 |

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|---|---|---|---|---|---|---|
| 492020.9 | 3608451.15 | 93343.85437 | 0.04312 | 0.90443 | 5.84870E-06 | 0.04312 |
| 492024.29 | 3608441.53 | 96373.73261 | 0.04452 | 0.96222 | 6.22241E-06 | 0.04452 |
| 492028.25 | 3608428.51 | 100102.7559 | 0.04624 | 1.04776 | 6.77558E-06 | 0.04625 |
| 492037.31 | 3608486.24 | 64997.07485 | 0.03002 | 0.64922 | 4.19833E-06 | 0.03003 |
| 492042.4 | 3608472.09 | 70003.93619 | 0.03234 | 0.70953 | 4.58834E-06 | 0.03234 |
| 492046.36 | 3608461.34 | 73396.40947 | 0.03390 | 0.75843 | 4.90456E-06 | 0.03391 |
| 492050.89 | 3608450.58 | 76111.04301 | 0.03516 | 0.80837 | 5.22751E-06 | 0.03516 |
| 492055.42 | 3608440.4 | 78120.56521 | 0.03609 | 0.85687 | 5.54114E-06 | 0.03609 |
| 492065.61 | 3608493.6 | 51730.61634 | 0.02390 | 0.56015 | 3.62234E-06 | 0.02390 |
| 492069 | 3608481.15 | 55673.63012 | 0.02572 | 0.60579 | 3.91748E-06 | 0.02572 |
| 492075.23 | 3608469.26 | 58198.33458 | 0.02688 | 0.64600 | 4.17750E-06 | 0.02689 |
| 492078.06 | 3608457.38 | 61580.37877 | 0.02845 | 0.69626 | 4.50252E-06 | 0.02845 |
| 492082.59 | 3608446.62 | 63614.62687 | 0.02939 | 0.73928 | 4.78072E-06 | 0.02939 |
| 491873.18 | 3608334.56 | 510026.4393 | 0.23560 | 7.44433 | 4.81404E-05 | 0.23565 |
| 491929.78 | 3608349.84 | 275582.9614 | 0.12730 | 3.59829 | 2.32692E-05 | 0.12732 |
| 491879.97 | 3608317.02 | 336657.7205 | 0.15551 | 7.99283 | 5.16874E-05 | 0.15557 |
| 491893.22 | 3608305.33 | 244539.0944 | 0.11296 | 7.09578 | 4.58865E-05 | 0.11301 |
| 491889.89 | 3608289.35 | 180966.3293 | 0.08359 | 7.41382 | 4.79431E-05 | 0.08364 |
| 491907.21 | 3608277.37 | 138377.9598 | 0.06392 | 6.01035 | 3.88673E-05 | 0.06396 |
| 491909.87 | 3608246.74 | 79154.74331 | 0.03656 | 4.98056 | 3.22079E-05 | 0.03660 |
| 491914.53 | 3608232.76 | 62103.64315 | 0.02869 | 4.32670 | 2.79796E-05 | 0.02872 |
| 491920.52 | 3608219.44 | 50060.99609 | 0.02312 | 3.72852 | 2.41113E-05 | 0.02315 |
| 491923.85 | 3608203.46 | 38703.0525 | 0.01788 | 3.15801 | 2.04220E-05 | 0.01790 |
| 491922.52 | 3608187.48 | 29639.67512 | 0.01369 | 2.68938 | 1.73915E-05 | 0.01371 |
| 491933.84 | 3608176.16 | 26152.75972 | 0.01208 | 2.31799 | 1.49898E-05 | 0.01210 |
| 491936.5 | 3608332.63 | 234523.5732 | 0.10833 | 3.92068 | 2.53540E-05 | 0.10836 |
| 491945.82 | 3608306.66 | 173169.8634 | 0.07999 | 4.13765 | 2.67570E-05 | 0.08002 |
| 491948.49 | 3608292.02 | 145064.0697 | 0.06701 | 4.17470 | 2.69966E-05 | 0.06704 |
| 491954.48 | 3608266.71 | 103224.5835 | 0.04768 | 3.92112 | 2.53568E-05 | 0.04771 |
| 491965.8 | 3608249.4 | 80108.96105 | 0.03701 | 3.44176 | 2.22569E-05 | 0.03703 |
| 491959.81 | 3608230.76 | 62686.59318 | 0.02896 | 3.27610 | 2.11856E-05 | 0.02898 |
| 491973.12 | 3608219.44 | 53627.38352 | 0.02477 | 2.85414 | 1.84569E-05 | 0.02479 |
| 491965.13 | 3608198.8 | 40196.10183 | 0.01857 | 2.57399 | 1.66453E-05 | 0.01858 |
| 491987.11 | 3608190.14 | 36888.98902 | 0.01704 | 2.21423 | 1.43188E-05 | 0.01705 |
| 491975.79 | 3608366.59 | 178873.4984 | 0.08263 | 2.25235 | 1.45653E-05 | 0.08264 |
| 491980.45 | 3608353.27 | 169371.4764 | 0.07824 | 2.42270 | 1.56669E-05 | 0.07825 |
| 491988.44 | 3608337.29 | 152041.2074 | 0.07023 | 2.55377 | 1.65145E-05 | 0.07025 |
| 491991.77 | 3608319.32 | 136973.1522 | 0.06327 | 2.73973 | 1.77171E-05 | 0.06329 |
| 492001.09 | 3608294.68 | 110325.6905 | 0.05096 | 2.77387 | 1.79379E-05 | 0.05098 |
| 492006.41 | 3608282.03 | 97363.99563 | 0.04498 | 2.72184 | 1.76014E-05 | 0.04499 |
| 492013.07 | 3608266.05 | 82663.1572 | 0.03819 | 2.61058 | 1.68819E-05 | 0.03820 |
| 492013.07 | 3608251.4 | 72289.32148 | 0.03339 | 2.56586 | 1.65927E-05 | 0.03341 |
| 492028.39 | 3608241.41 | 62887.85268 | 0.02905 | 2.30116 | 1.48810E-05 | 0.02907 |
| 492019.07 | 3608222.77 | 53476.99655 | 0.02470 | 2.28757 | 1.47931E-05 | 0.02472 |
| 492045.7 | 3608210.78 | 45452.49661 | 0.02100 | 1.92083 | 1.24215E-05 | 0.02101 |
| 492031.05 | 3608385.23 | 112727.5006 | 0.05207 | 1.43445 | 9.27619E-06 | 0.05208 |
| 492035.71 | 3608369.92 | 110781.352 | 0.05117 | 1.55699 | 1.00686E-05 | 0.05118 |
| 492027.06 | 3608353.27 | 117475.215 | 0.05427 | 1.81736 | 1.17524E-05 | 0.05428 |
| 492046.36 | 3608339.96 | 100944.5021 | 0.04663 | 1.75203 | 1.13299E-05 | 0.04664 |
| 492040.37 | 3608324.64 | 101087.0358 | 0.04670 | 1.94963 | 1.26077E-05 | 0.04671 |
| 492057.02 | 3608313.32 | 87983.27103 | 0.04064 | 1.84423 | 1.19261E-05 | 0.04065 |
| 492055.69 | 3608297.34 | 82983.20924 | 0.03833 | 1.94539 | 1.25803E-05 | 0.03835 |
| 492059.02 | 3608282.03 | 75410.62761 | 0.03483 | 1.96082 | 1.26801E-05 | 0.03485 |
| 492069.67 | 3608270.04 | 67070.83152 | 0.03098 | 1.86581 | 1.20657E-05 | 0.03099 |
| 492061.68 | 3608253.4 | 62148.13063 | 0.02871 | 1.94735 | 1.25930E-05 | 0.02872 |
| 492078.32 | 3608241.41 | 53934.29894 | 0.02491 | 1.76457 | 1.14110E-05 | 0.02493 |
| 492079.66 | 3608226.76 | 48297.83936 | 0.02231 | 1.71233 | 1.10732E-05 | 0.02232 |
| 492069.51 | 3608395.3 | 84466.80709 | 0.03902 | 1.11315 | 7.19844E-06 | 0.03903 |
| 492076.17 | 3608375.99 | 83704.79149 | 0.03867 | 1.22143 | 7.89865E-06 | 0.03867 |
| 492085.49 | 3608364.01 | 79670.90896 | 0.03680 | 1.25216 | 8.09737E-06 | 0.03681 |

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| 492102.14 | 3608406.62 | 66659.39687 | 0.03079 | 0.89809 | 5.80770E-06 | 0.03080 |
| 492129.44 | 3608410.61 | 56135.98193 | 0.02593 | 0.78540 | 5.07897E-06 | 0.02594 |
| 492095.48 | 3608352.69 | 75074.61459 | 0.03468 | 1.26584 | 8.18584E-06 | 0.03469 |
| 492094.15 | 3608336.04 | 74769.00478 | 0.03454 | 1.37757 | 8.90837E-06 | 0.03455 |
| 492135.43 | 3608348.69 | 59822.0277 | 0.02763 | 1.06697 | 6.89980E-06 | 0.02764 |
| 492101.47 | 3608312.74 | 68685.98252 | 0.03173 | 1.44695 | 9.35703E-06 | 0.03174 |
| 492120.78 | 3608244.15 | 47515.56367 | 0.02195 | 1.43698 | 9.29255E-06 | 0.02196 |
| 492106.8 | 3608297.42 | 63920.32042 | 0.02953 | 1.46755 | 9.49024E-06 | 0.02954 |
| 492168.06 | 3608256.14 | 42321.71042 | 0.01955 | 1.15696 | 7.48174E-06 | 0.01956 |
| 491832.47 | 3608106.99 | 4180.27461 | 0.00193 | 0.82048 | 5.30582E-06 | 0.00194 |
| 491853.78 | 3608116.31 | 5792.22388 | 0.00268 | 1.01929 | 6.59147E-06 | 0.00268 |
| 491874.42 | 3608123.64 | 7782.89246 | 0.00360 | 1.19844 | 7.74998E-06 | 0.00360 |
| 491899.72 | 3608128.96 | 10460.46231 | 0.00483 | 1.34443 | 8.69406E-06 | 0.00484 |
| 491836.47 | 3608093.01 | 3710.77936 | 0.00171 | 0.68642 | 4.43889E-06 | 0.00172 |
| 491877.09 | 3608106.33 | 6350.14878 | 0.00293 | 0.95334 | 6.16499E-06 | 0.00294 |
| 491905.05 | 3608118.98 | 9510.661 | 0.00439 | 1.19114 | 7.70278E-06 | 0.00440 |
| 491907.71 | 3608101.66 | 7734.16153 | 0.00357 | 0.96262 | 6.22500E-06 | 0.00358 |
| 491883.74 | 3608091.01 | 5569.59303 | 0.00257 | 0.79462 | 5.13859E-06 | 0.00258 |
| 491848.45 | 3608065.04 | 3079.74148 | 0.00142 | 0.50327 | 3.25451E-06 | 0.00143 |
| 491853.12 | 3608053.06 | 2845.00857 | 0.00131 | 0.44410 | 2.87187E-06 | 0.00132 |
| 491873.09 | 3608063.05 | 3716.66742 | 0.00172 | 0.54139 | 3.50102E-06 | 0.00172 |
| 491909.71 | 3608072.37 | 5512.02895 | 0.00255 | 0.67690 | 4.37733E-06 | 0.00255 |
| 491921.03 | 3608059.05 | 5157.77157 | 0.00238 | 0.59639 | 3.85669E-06 | 0.00239 |
| 491925.69 | 3608040.41 | 4365.67123 | 0.00202 | 0.49036 | 3.17102E-06 | 0.00202 |
| 491856.44 | 3608031.75 | 2391.11038 | 0.00110 | 0.35189 | 2.27558E-06 | 0.00111 |
| 491867.1 | 3608010.44 | 2147.01462 | 0.00099 | 0.29200 | 1.88828E-06 | 0.00099 |
| 491875.09 | 3607976.49 | 1718.34971 | 0.00079 | 0.21562 | 1.39436E-06 | 0.00080 |
| 491918.37 | 3607991.8 | 2607.50294 | 0.00120 | 0.28963 | 1.87296E-06 | 0.00121 |
| 491945 | 3608000.46 | 3347.42556 | 0.00155 | 0.34252 | 2.21498E-06 | 0.00155 |
| 491935.09 | 3608141.53 | 15811.72963 | 0.00730 | 1.58326 | 1.02385E-05 | 0.00731 |
| 491960.9 | 3608152.59 | 20885.93528 | 0.00965 | 1.72935 | 1.11832E-05 | 0.00966 |
| 491988.54 | 3608164.57 | 26680.53337 | 0.01232 | 1.81216 | 1.17187E-05 | 0.01234 |
| 491946.15 | 3608114.81 | 11726.3336 | 0.00542 | 1.17209 | 7.57958E-06 | 0.00542 |
| 491988.54 | 3608129.55 | 17191.33706 | 0.00794 | 1.33436 | 8.62894E-06 | 0.00795 |
| 492018.04 | 3608107.44 | 14609.94337 | 0.00675 | 1.06121 | 6.86255E-06 | 0.00676 |
| 491955.37 | 3608089 | 8955.75981 | 0.00414 | 0.88806 | 5.74284E-06 | 0.00414 |
| 491963.66 | 3608059.51 | 6685.43509 | 0.00309 | 0.65486 | 4.23480E-06 | 0.00309 |
| 491984.86 | 3608059.51 | 7477.34499 | 0.00345 | 0.67462 | 4.36258E-06 | 0.00346 |
| 492031.86 | 3608066.89 | 9871.96109 | 0.00456 | 0.74218 | 4.79947E-06 | 0.00457 |
| 492020.8 | 3608040.16 | 7216.79234 | 0.00333 | 0.58284 | 3.76907E-06 | 0.00334 |
| 491977.49 | 3608027.26 | 5172.79373 | 0.00239 | 0.48467 | 3.13423E-06 | 0.00239 |
| 491983.94 | 3608007.9 | 4445.64427 | 0.00205 | 0.40747 | 2.63500E-06 | 0.00206 |
| 492044.76 | 3608018.04 | 6426.81543 | 0.00297 | 0.49104 | 3.17542E-06 | 0.00297 |
| 492048.45 | 3608001.45 | 5605.04851 | 0.00259 | 0.42857 | 2.77144E-06 | 0.00259 |
| 491999.6 | 3607989.47 | 4066.56556 | 0.00188 | 0.35545 | 2.29860E-06 | 0.00188 |
| 492038.31 | 3608171.95 | 30870.0028 | 0.01426 | 1.63629 | 1.05814E-05 | 0.01427 |
| 492047.53 | 3608155.36 | 26046.82328 | 0.01203 | 1.43556 | 9.28337E-06 | 0.01204 |
| 492086.23 | 3608187.61 | 34800.01113 | 0.01608 | 1.48031 | 9.57276E-06 | 0.01608 |
| 492095.45 | 3608171.03 | 29921.10786 | 0.01382 | 1.33609 | 8.64013E-06 | 0.01383 |
| 492053.98 | 3608123.1 | 18782.21306 | 0.00868 | 1.13753 | 7.35609E-06 | 0.00868 |
| 492109.27 | 3608145.22 | 23826.16581 | 0.01101 | 1.13313 | 7.32764E-06 | 0.01101 |
| 492058.59 | 3608100.06 | 14968.14869 | 0.00691 | 0.95426 | 6.17094E-06 | 0.00692 |
| 492123.1 | 3608113.89 | 18276.37331 | 0.00844 | 0.92760 | 5.99853E-06 | 0.00845 |
| 492135.08 | 3608094.53 | 15629.64783 | 0.00722 | 0.81189 | 5.25027E-06 | 0.00723 |
| 492076.1 | 3608065.04 | 11034.36032 | 0.00510 | 0.72072 | 4.66070E-06 | 0.00510 |
| 492085.31 | 3608030.02 | 8189.43118 | 0.00378 | 0.55127 | 3.56491E-06 | 0.00379 |
| 492139.69 | 3608065.96 | 12391.12724 | 0.00572 | 0.68060 | 4.40125E-06 | 0.00573 |
| 492139.69 | 3608212.5 | 37320.35401 | 0.01724 | 1.27558 | 8.24883E-06 | 0.01725 |
| 492183.92 | 3608227.24 | 35481.27135 | 0.01639 | 1.08028 | 6.98587E-06 | 0.01640 |
| 492143.37 | 3608192.22 | 32542.94347 | 0.01503 | 1.20370 | 7.78400E-06 | 0.01504 |

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| 492194.98 | 3608204.2 | 30785.83068 | 0.01422 | 1.01145 | 6.54077E-06 | 0.01423 |
| 492203.28 | 3608183.01 | 27032.74153 | 0.01249 | 0.94695 | 6.12367E-06 | 0.01249 |
| 492151.67 | 3608153.52 | 24592.58173 | 0.01136 | 1.03352 | 6.68349E-06 | 0.01137 |
| 492197.75 | 3608162.73 | 24382.24963 | 0.01126 | 0.91938 | 5.94538E-06 | 0.01127 |
| 492159.04 | 3608135.08 | 21371.48879 | 0.00987 | 0.93915 | 6.07323E-06 | 0.00988 |
| 492164.57 | 3608118.49 | 18861.03342 | 0.00871 | 0.86053 | 5.56481E-06 | 0.00872 |
| 492219.86 | 3608141.53 | 20767.73595 | 0.00959 | 0.80792 | 5.22460E-06 | 0.00960 |
| 492223.55 | 3608114.81 | 17605.82478 | 0.00813 | 0.73113 | 4.72802E-06 | 0.00814 |
| 492231.84 | 3608098.22 | 15772.55758 | 0.00729 | 0.67306 | 4.35249E-06 | 0.00729 |
| 492170.1 | 3608097.3 | 16098.24566 | 0.00744 | 0.76825 | 4.96806E-06 | 0.00744 |
| 492180.24 | 3608077.94 | 13955.35376 | 0.00645 | 0.68315 | 4.41774E-06 | 0.00645 |
| 492183.92 | 3608055.83 | 11864.67278 | 0.00548 | 0.60414 | 3.90681E-06 | 0.00548 |
| 492218.94 | 3608068.73 | 13103.09219 | 0.00605 | 0.60903 | 3.93843E-06 | 0.00606 |
| 492246.59 | 3608230.01 | 29459.61125 | 0.01361 | 0.84615 | 5.47182E-06 | 0.01361 |
| 492239.22 | 3608207.89 | 27744.96499 | 0.01282 | 0.86205 | 5.57464E-06 | 0.01282 |
| 492241.98 | 3608194.07 | 25986.19077 | 0.01200 | 0.84196 | 5.44472E-06 | 0.01201 |
| 492246.59 | 3608176.56 | 23745.69812 | 0.01097 | 0.80800 | 5.22511E-06 | 0.01097 |
| 492257.65 | 3608163.65 | 21811.33647 | 0.01008 | 0.76159 | 4.92499E-06 | 0.01008 |
| 492261.34 | 3608145.22 | 19794.15036 | 0.00914 | 0.72336 | 4.67777E-06 | 0.00915 |
| 492266.87 | 3608124.02 | 17592.10804 | 0.00813 | 0.67343 | 4.35489E-06 | 0.00813 |
| 492272.39 | 3608108.36 | 16065.59041 | 0.00742 | 0.63341 | 4.09609E-06 | 0.00743 |
| 492277.92 | 3608094.53 | 14809.70621 | 0.00684 | 0.59758 | 3.86439E-06 | 0.00685 |
| 492285.3 | 3608081.63 | 13701.00363 | 0.00633 | 0.56237 | 3.63669E-06 | 0.00633 |
| 491685.34 | 3608168.26 | 1905.1755 | 0.00088 | 0.95379 | 6.16790E-06 | 0.00089 |
| 491689.95 | 3608145.22 | 1616.14261 | 0.00075 | 0.68053 | 4.40080E-06 | 0.00075 |
| 491694.56 | 3608131.4 | 1490.70102 | 0.00069 | 0.57313 | 3.70627E-06 | 0.00069 |
| 491698.24 | 3608118.49 | 1381.51988 | 0.00064 | 0.49193 | 3.18118E-06 | 0.00064 |
| 491701.01 | 3608105.59 | 1277.01571 | 0.00059 | 0.42458 | 2.74564E-06 | 0.00059 |
| 491703.77 | 3608093.61 | 1191.86472 | 0.00055 | 0.37342 | 2.41480E-06 | 0.00055 |
| 491707.46 | 3608079.79 | 1107.7138 | 0.00051 | 0.32522 | 2.10311E-06 | 0.00051 |
| 491713.91 | 3608070.57 | 1083.94065 | 0.00050 | 0.30182 | 1.95179E-06 | 0.00050 |
| 491715.75 | 3608058.59 | 1012.41747 | 0.00047 | 0.26913 | 1.74039E-06 | 0.00047 |
| 491720.36 | 3608046.61 | 964.20218 | 0.00045 | 0.24322 | 1.57284E-06 | 0.00045 |
| 491732.34 | 3608014.36 | 849.87505 | 0.00039 | 0.18861 | 1.21969E-06 | 0.00039 |
| 491735.11 | 3608002.37 | 804.64468 | 0.00037 | 0.17194 | 1.11189E-06 | 0.00037 |
| 491735.11 | 3607991.32 | 754.55705 | 0.00035 | 0.15735 | 1.01754E-06 | 0.00035 |
| 491744.32 | 3607980.26 | 748.06203 | 0.00035 | 0.14774 | 9.55394E-07 | 0.00035 |
| 491747.09 | 3607967.35 | 707.05832 | 0.00033 | 0.13494 | 8.72620E-07 | 0.00033 |
| 491755.38 | 3607954.45 | 690.7191 | 0.00032 | 0.12526 | 8.10022E-07 | 0.00032 |
| 491759.07 | 3607939.71 | 651.23376 | 0.00030 | 0.11385 | 7.36237E-07 | 0.00030 |
| 491636.5 | 3608156.28 | 1317.55011 | 0.00061 | 0.61405 | 3.97089E-06 | 0.00061 |
| 491618.06 | 3608148.91 | 1155.56399 | 0.00053 | 0.50736 | 3.28096E-06 | 0.00054 |
| 491598.71 | 3608143.38 | 1035.22776 | 0.00048 | 0.42946 | 2.77720E-06 | 0.00048 |
| 491579.36 | 3608134.16 | 915.03025 | 0.00042 | 0.35221 | 2.27765E-06 | 0.00042 |
| 491565.53 | 3608132.32 | 865.75646 | 0.00040 | 0.32156 | 2.07944E-06 | 0.00040 |
| 491548.94 | 3608123.1 | 781.22765 | 0.00036 | 0.27180 | 1.75766E-06 | 0.00036 |
| 491654.01 | 3608119.42 | 1093.05063 | 0.00050 | 0.41940 | 2.71214E-06 | 0.00051 |
| 491663.22 | 3608133.24 | 1261.55124 | 0.00058 | 0.51410 | 3.32454E-06 | 0.00059 |
| 491657.69 | 3608106.51 | 1016.55434 | 0.00047 | 0.36746 | 2.37626E-06 | 0.00047 |
| 491663.22 | 3608094.53 | 961.6658 | 0.00044 | 0.32912 | 2.12833E-06 | 0.00045 |
| 491674.28 | 3608094.53 | 1013.91396 | 0.00047 | 0.34110 | 2.20580E-06 | 0.00047 |
| 491681.65 | 3608086.24 | 996.05117 | 0.00046 | 0.31991 | 2.06877E-06 | 0.00046 |
| 491686.26 | 3608072.42 | 932.10878 | 0.00043 | 0.28186 | 1.82271E-06 | 0.00043 |
| 491663.22 | 3608078.87 | 868.71747 | 0.00040 | 0.28068 | 1.81508E-06 | 0.00040 |
| 491671.52 | 3608072.42 | 865.98489 | 0.00040 | 0.27000 | 1.74602E-06 | 0.00040 |
| 491676.12 | 3608058.59 | 812.08348 | 0.00038 | 0.23991 | 1.55143E-06 | 0.00038 |
| 491678.89 | 3608048.45 | 773.86256 | 0.00036 | 0.22037 | 1.42507E-06 | 0.00036 |
| 491690.87 | 3608053.98 | 850.17689 | 0.00039 | 0.23929 | 1.54742E-06 | 0.00039 |
| 491695.48 | 3608035.55 | 779.20615 | 0.00036 | 0.20522 | 1.32710E-06 | 0.00036 |
| 491701.93 | 3608024.49 | 755.88226 | 0.00035 | 0.18973 | 1.22693E-06 | 0.00035 |

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| 491624.52 | 3608121.26 | 982.59795 | 0.00045 | 0.38106 | 2.46421E-06 | 0.00046 |
| 491615.3 | 3608116.65 | 923.03046 | 0.00043 | 0.34920 | 2.25818E-06 | 0.00043 |
| 491603.32 | 3608112.97 | 867.25904 | 0.00040 | 0.31999 | 2.06929E-06 | 0.00040 |
| 491590.42 | 3608107.44 | 806.51646 | 0.00037 | 0.28739 | 1.85847E-06 | 0.00037 |
| 491582.12 | 3608104.67 | 774.91834 | 0.00036 | 0.27053 | 1.74944E-06 | 0.00036 |
| 491567.38 | 3608101.91 | 732.68088 | 0.00034 | 0.24793 | 1.60330E-06 | 0.00034 |
| 491553.55 | 3608094.53 | 678.74608 | 0.00031 | 0.21986 | 1.42177E-06 | 0.00031 |
| 491560 | 3608079.79 | 637.30235 | 0.00029 | 0.20076 | 1.29826E-06 | 0.00030 |
| 491571.98 | 3608083.47 | 669.156 | 0.00031 | 0.21644 | 1.39966E-06 | 0.00031 |
| 491585.81 | 3608088.08 | 711.15424 | 0.00033 | 0.23709 | 1.53320E-06 | 0.00033 |
| 491599.63 | 3608094.53 | 766.78998 | 0.00035 | 0.26452 | 1.71058E-06 | 0.00036 |
| 491614.38 | 3608097.3 | 814.843 | 0.00038 | 0.28675 | 1.85433E-06 | 0.00038 |
| 491626.36 | 3608102.83 | 877.45895 | 0.00041 | 0.31637 | 2.04588E-06 | 0.00041 |
| 491630.97 | 3608077.94 | 763.464 | 0.00035 | 0.25250 | 1.63285E-06 | 0.00035 |
| 491613.46 | 3608071.49 | 696.20751 | 0.00032 | 0.22558 | 1.45876E-06 | 0.00032 |
| 491635.57 | 3608062.28 | 706.00578 | 0.00033 | 0.22214 | 1.43652E-06 | 0.00033 |
| 491647.56 | 3608065.04 | 748.59786 | 0.00035 | 0.23548 | 1.52278E-06 | 0.00035 |
| 491568.3 | 3608046.61 | 544.90445 | 0.00025 | 0.16037 | 1.03707E-06 | 0.00025 |
| 491556.32 | 3608038.32 | 510.16707 | 0.00024 | 0.14559 | 9.41491E-07 | 0.00024 |
| 491572.91 | 3608032.79 | 512.18472 | 0.00024 | 0.14698 | 9.50479E-07 | 0.00024 |
| 491594.1 | 3608048.45 | 581.94028 | 0.00027 | 0.17577 | 1.13666E-06 | 0.00027 |
| 491589.49 | 3608035.55 | 537.61888 | 0.00025 | 0.15714 | 1.01618E-06 | 0.00025 |
| 491608.85 | 3608039.24 | 573.67335 | 0.00027 | 0.17041 | 1.10199E-06 | 0.00027 |
| 491612.53 | 3608025.41 | 537.6352 | 0.00025 | 0.15465 | 1.00008E-06 | 0.00025 |
| 491625.44 | 3608040.16 | 603.03153 | 0.00028 | 0.17932 | 1.15961E-06 | 0.00028 |
| 491636.5 | 3608029.1 | 586.7769 | 0.00027 | 0.16872 | 1.09107E-06 | 0.00027 |
| 491654.01 | 3608027.26 | 616.81819 | 0.00028 | 0.17328 | 1.12055E-06 | 0.00029 |
| 491643.87 | 3608011.59 | 547.07422 | 0.00025 | 0.14986 | 9.69103E-07 | 0.00025 |
| 491667.83 | 3608015.28 | 609.90493 | 0.00028 | 0.16255 | 1.05117E-06 | 0.00028 |
| 491689.03 | 3607995 | 601.27188 | 0.00028 | 0.14560 | 9.41555E-07 | 0.00028 |
| 491681.65 | 3607976.57 | 528.80566 | 0.00024 | 0.12538 | 8.10798E-07 | 0.00025 |
| 491704.69 | 3607986.71 | 621.67149 | 0.00029 | 0.14150 | 9.15042E-07 | 0.00029 |
| 491713.91 | 3607971.96 | 603.37593 | 0.00028 | 0.12953 | 8.37635E-07 | 0.00028 |
| 491725.89 | 3607958.14 | 598.23444 | 0.00028 | 0.12042 | 7.78723E-07 | 0.00028 |
| 491711.15 | 3607949.84 | 531.94139 | 0.00025 | 0.11043 | 7.14120E-07 | 0.00025 |
| 491729.58 | 3607943.39 | 565.80717 | 0.00026 | 0.10966 | 7.09141E-07 | 0.00026 |
| 491714.83 | 3607935.1 | 504.2339 | 0.00023 | 0.10089 | 6.52428E-07 | 0.00023 |
| 491724.97 | 3607923.12 | 500.55027 | 0.00023 | 0.09521 | 6.15697E-07 | 0.00023 |
| 491737.87 | 3607928.65 | 548.86938 | 0.00025 | 0.10112 | 6.53915E-07 | 0.00025 |
| 491735.11 | 3607910.22 | 495.12574 | 0.00023 | 0.08948 | 5.78643E-07 | 0.00023 |
| 491558.16 | 3608010.67 | 446.76664 | 0.00021 | 0.12114 | 7.83379E-07 | 0.00021 |
| 491579.36 | 3607998.69 | 437.37975 | 0.00020 | 0.11796 | 7.62815E-07 | 0.00020 |
| 491595.95 | 3608003.3 | 462.03995 | 0.00021 | 0.12660 | 8.18687E-07 | 0.00021 |
| 491613.46 | 3607995.92 | 463.12885 | 0.00021 | 0.12513 | 8.09181E-07 | 0.00021 |
| 491599.63 | 3607983.94 | 423.43448 | 0.00020 | 0.11194 | 7.23885E-07 | 0.00020 |
| 491623.59 | 3607979.33 | 437.88119 | 0.00020 | 0.11409 | 7.37789E-07 | 0.00020 |
| 491640.18 | 3607983.02 | 467.47351 | 0.00022 | 0.12094 | 7.82086E-07 | 0.00022 |
| 491660.46 | 3607968.28 | 466.12239 | 0.00022 | 0.11369 | 7.35202E-07 | 0.00022 |
| 491659.54 | 3607951.69 | 429.57667 | 0.00020 | 0.10173 | 6.57860E-07 | 0.00020 |
| 491677.05 | 3607950.77 | 457.63343 | 0.00021 | 0.10432 | 6.74609E-07 | 0.00021 |
| 491682.58 | 3607937.86 | 441.04738 | 0.00020 | 0.09695 | 6.26949E-07 | 0.00020 |
| 491670.6 | 3607928.65 | 403.26628 | 0.00019 | 0.08970 | 5.80065E-07 | 0.00019 |
| 491694.56 | 3607921.27 | 430.62047 | 0.00020 | 0.08923 | 5.77026E-07 | 0.00020 |
| 491682.58 | 3607913.9 | 396.2858 | 0.00018 | 0.08368 | 5.41136E-07 | 0.00018 |
| 491682.58 | 3607901.92 | 376.39613 | 0.00017 | 0.07800 | 5.04405E-07 | 0.00017 |
| 491705.62 | 3607902.84 | 416.61693 | 0.00019 | 0.08134 | 5.26003E-07 | 0.00019 |
| 491561.62 | 3607964.09 | 361.52381 | 0.00017 | 0.09104 | 5.88731E-07 | 0.00017 |
| 491578.12 | 3607959.66 | 363.39121 | 0.00017 | 0.09175 | 5.93322E-07 | 0.00017 |
| 491573.42 | 3607943.99 | 336.42249 | 0.00016 | 0.08283 | 5.35639E-07 | 0.00016 |
| 491600.84 | 3607959.66 | 378.65901 | 0.00017 | 0.09601 | 6.20870E-07 | 0.00018 |

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| 491591.44 | 3607944.77 | 347.74317 | 0.00016 | 0.08613 | 5.56979E-07 | 0.00016 |
| 491603.97 | 3607934.59 | 340.58815 | 0.00016 | 0.08299 | 5.36674E-07 | 0.00016 |
| 491615.72 | 3607947.91 | 370.81638 | 0.00017 | 0.09183 | 5.93839E-07 | 0.00017 |
| 491636.09 | 3607933.02 | 366.04732 | 0.00017 | 0.08695 | 5.62282E-07 | 0.00017 |
| 491625.12 | 3607917.35 | 332.03167 | 0.00015 | 0.07785 | 5.03435E-07 | 0.00015 |
| 491644.71 | 3607918.92 | 353.35695 | 0.00016 | 0.08111 | 5.24516E-07 | 0.00016 |
| 491642.36 | 3607896.99 | 320.10969 | 0.00015 | 0.07132 | 4.61207E-07 | 0.00015 |
| 491658.03 | 3607905.6 | 348.86545 | 0.00016 | 0.07669 | 4.95933E-07 | 0.00016 |
| 491665.08 | 3607887.59 | 331.99941 | 0.00015 | 0.07005 | 4.52994E-07 | 0.00015 |
| 491647.06 | 3607883.67 | 307.77096 | 0.00014 | 0.06677 | 4.31783E-07 | 0.00014 |
| 491564.8 | 3607922.84 | 303.4827 | 0.00014 | 0.07232 | 4.67674E-07 | 0.00014 |
| 491587.52 | 3607913.44 | 301.75849 | 0.00014 | 0.07149 | 4.62306E-07 | 0.00014 |
| 491573.42 | 3607903.25 | 283.1073 | 0.00013 | 0.06604 | 4.27063E-07 | 0.00013 |
| 491607.11 | 3607896.2 | 291.63159 | 0.00013 | 0.06721 | 4.34629E-07 | 0.00014 |
| 491603.97 | 3607878.97 | 270.49998 | 0.00012 | 0.06106 | 3.94858E-07 | 0.00013 |
| 491621.99 | 3607877.4 | 279.96461 | 0.00013 | 0.06223 | 4.02424E-07 | 0.00013 |
| 491892.25 | 3607962.79 | 1729.53705 | 0.00080 | 0.20211 | 1.30699E-06 | 0.00080 |
| 491943.96 | 3607975.32 | 2655.68093 | 0.00123 | 0.26865 | 1.73729E-06 | 0.00123 |
| 491586.79 | 3608712.31 | 8409.91149 | 0.00388 | 0.25537 | 1.65141E-06 | 0.00389 |
| 491579.14 | 3608732.72 | 7291.76171 | 0.00337 | 0.22345 | 1.44499E-06 | 0.00337 |
| 491579.14 | 3608751.86 | 6533.0195 | 0.00302 | 0.19896 | 1.28662E-06 | 0.00302 |
| 491563.83 | 3608778.64 | 5465.98803 | 0.00252 | 0.17032 | 1.10141E-06 | 0.00253 |
| 491558.73 | 3608797.78 | 4905.57279 | 0.00227 | 0.15360 | 9.93289E-07 | 0.00227 |
| 491545.97 | 3608824.57 | 4212.34249 | 0.00195 | 0.13396 | 8.66283E-07 | 0.00195 |
| 491543.42 | 3608838.6 | 3929.01444 | 0.00181 | 0.12516 | 8.09375E-07 | 0.00182 |
| 491534.49 | 3608869.21 | 3382.56676 | 0.00156 | 0.10868 | 7.02804E-07 | 0.00156 |
| 491635.26 | 3608725.07 | 8556.303 | 0.00395 | 0.23968 | 1.54994E-06 | 0.00395 |
| 491665.88 | 3608731.45 | 8360.83188 | 0.00386 | 0.23355 | 1.51030E-06 | 0.00386 |
| 491654.4 | 3608756.96 | 6906.22993 | 0.00319 | 0.19926 | 1.28856E-06 | 0.00319 |
| 491627.61 | 3608748.03 | 7224.74672 | 0.00334 | 0.20756 | 1.34223E-06 | 0.00334 |
| 491621.23 | 3608764.61 | 6439.38955 | 0.00297 | 0.18774 | 1.21406E-06 | 0.00298 |
| 491651.85 | 3608772.27 | 6214.64483 | 0.00287 | 0.18240 | 1.17953E-06 | 0.00287 |
| 491635.26 | 3608823.29 | 4517.60807 | 0.00209 | 0.13801 | 8.92473E-07 | 0.00209 |
| 491608.48 | 3608810.54 | 4835.62481 | 0.00223 | 0.14544 | 9.40521E-07 | 0.00223 |
| 491603.37 | 3608829.67 | 4336.69451 | 0.00200 | 0.13187 | 8.52767E-07 | 0.00200 |
| 491627.61 | 3608838.6 | 4143.13594 | 0.00191 | 0.12751 | 8.24572E-07 | 0.00191 |
| 491622.51 | 3608866.66 | 3564.66602 | 0.00165 | 0.11155 | 7.21363E-07 | 0.00165 |
| 491590.62 | 3608859.01 | 3701.20145 | 0.00171 | 0.11431 | 7.39211E-07 | 0.00171 |
| 491586.79 | 3608875.59 | 3404.77827 | 0.00157 | 0.10597 | 6.85279E-07 | 0.00157 |
| 491617.41 | 3608884.52 | 3257.20091 | 0.00150 | 0.10280 | 6.64779E-07 | 0.00151 |
| 491707.97 | 3608753.13 | 7153.25801 | 0.00330 | 0.20753 | 1.34204E-06 | 0.00331 |
| 491702.87 | 3608768.44 | 6396.431 | 0.00295 | 0.18982 | 1.22751E-06 | 0.00296 |
| 491696.49 | 3608791.4 | 5468.59705 | 0.00253 | 0.16695 | 1.07962E-06 | 0.00253 |
| 491688.84 | 3608805.43 | 4998.74356 | 0.00231 | 0.15457 | 9.99562E-07 | 0.00231 |
| 491683.74 | 3608834.77 | 4189.63762 | 0.00194 | 0.13298 | 8.59945E-07 | 0.00194 |
| 491674.81 | 3608851.36 | 3820.01121 | 0.00176 | 0.12236 | 7.91269E-07 | 0.00177 |
| 491669.71 | 3608874.32 | 3379.43532 | 0.00156 | 0.10986 | 7.10434E-07 | 0.00156 |
| 491667.15 | 3608903.66 | 2914.7126 | 0.00135 | 0.09656 | 6.24427E-07 | 0.00135 |
| 491741.14 | 3608758.23 | 6978.56924 | 0.00322 | 0.20192 | 1.30576E-06 | 0.00322 |
| 491733.49 | 3608772.27 | 6281.67673 | 0.00290 | 0.18683 | 1.20818E-06 | 0.00290 |
| 491727.11 | 3608797.78 | 5275.56965 | 0.00244 | 0.16283 | 1.05298E-06 | 0.00244 |
| 491720.73 | 3608809.26 | 4893.44238 | 0.00226 | 0.15316 | 9.90444E-07 | 0.00226 |
| 491711.8 | 3608833.5 | 4219.16689 | 0.00195 | 0.13521 | 8.74366E-07 | 0.00195 |
| 491706.7 | 3608855.18 | 3729.43269 | 0.00172 | 0.12169 | 7.86936E-07 | 0.00172 |
| 491701.6 | 3608871.77 | 3409.51209 | 0.00157 | 0.11253 | 7.27701E-07 | 0.00158 |
| 491699.05 | 3608899.83 | 2955.05305 | 0.00137 | 0.09935 | 6.42469E-07 | 0.00137 |
| 491778.13 | 3608770.99 | 6583.73997 | 0.00304 | 0.18625 | 1.20443E-06 | 0.00304 |
| 491773.03 | 3608791.4 | 5700.1801 | 0.00263 | 0.16812 | 1.08719E-06 | 0.00263 |
| 491762.83 | 3608811.81 | 4952.10555 | 0.00229 | 0.15217 | 9.84042E-07 | 0.00229 |
| 491760.28 | 3608828.39 | 4468.7311 | 0.00206 | 0.14044 | 9.08187E-07 | 0.00207 |

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|---|---|---|---|---|---|---|
| 491755.17 | 3608851.36 | 3900.00547 | 0.00180 | 0.12606 | 8.15195E-07 | 0.00180 |
| 491747.52 | 3608869.21 | 3518.43567 | 0.00163 | 0.11604 | 7.50399E-07 | 0.00163 |
| 491738.59 | 3608884.52 | 3229.67762 | 0.00149 | 0.10809 | 6.98988E-07 | 0.00149 |

## Moss Street

**2020** **Tier III mitigation** **at Sensitive Receptors**

| X (m) | Y (m) | Onsite Annual DPM Exhaust w/Unit Emissions (ug/m3) | Onsite Annual DPM Exhaust w/Actual Emissions (ug/m3) | Offsite Annual DPM Exhaust w/Unit Emissions (ug/m3) | Offsite Annual DPM Exhaust w/Actual Emissions (ug/m3) | Total DPM (ug/m3) |
|---|---|---|---|---|---|---|
| 491856.94 | 3608423.76 | 631633.5918 | 0.29825 | 2.71215 | 3.06021E-05 | 0.29828 |
| 491770.82 | 3608296.56 | 83768.45212 | 0.03955 | 40.63129 | 4.58456E-04 | 0.04001 |
| 491786.69 | 3608300.4 | 169029.1196 | 0.07981 | 37.16311 | 4.19323E-04 | 0.08023 |
| 491777.07 | 3608270.58 | 37629.84601 | 0.01777 | 18.63654 | 2.10282E-04 | 0.01798 |
| 491794.39 | 3608275.87 | 71537.09153 | 0.03378 | 18.30192 | 2.06507E-04 | 0.03399 |
| 491789.88 | 3608254.44 | 30952.91267 | 0.01462 | 11.83867 | 1.33580E-04 | 0.01475 |
| 491793.88 | 3608239.79 | 22440.86907 | 0.01060 | 8.50172 | 9.59277E-05 | 0.01069 |
| 491796.54 | 3608225.81 | 16889.37505 | 0.00797 | 6.29229 | 7.09980E-05 | 0.00805 |
| 491799.2 | 3608213.16 | 13520.08898 | 0.00638 | 4.82803 | 5.44762E-05 | 0.00644 |
| 491804.53 | 3608198.51 | 11109.97723 | 0.00525 | 3.60052 | 4.06258E-05 | 0.00529 |
| 491835.16 | 3608317.03 | 396533.5888 | 0.18724 | 17.47807 | 1.97211E-04 | 0.18743 |
| 491837.82 | 3608303.71 | 271820.1418 | 0.12835 | 16.36569 | 1.84659E-04 | 0.12853 |
| 491843.81 | 3608287.73 | 172647.9047 | 0.08152 | 13.10984 | 1.47923E-04 | 0.08167 |
| 491851.14 | 3608274.41 | 123009.1203 | 0.05808 | 10.45869 | 1.18009E-04 | 0.05820 |
| 491863.07 | 3608247.22 | 66875.79104 | 0.03158 | 6.89013 | 7.77436E-05 | 0.03166 |
| 491867.68 | 3608231.55 | 48552.36905 | 0.02293 | 5.50992 | 6.21702E-05 | 0.02299 |
| 491875.05 | 3608218.65 | 39141.4192 | 0.01848 | 4.51933 | 5.09931E-05 | 0.01853 |
| 491878.74 | 3608195.61 | 25762.88386 | 0.01216 | 3.29514 | 3.71801E-05 | 0.01220 |
| 491885.19 | 3608177.18 | 19590.4194 | 0.00925 | 2.54421 | 2.87071E-05 | 0.00928 |
| 491807.78 | 3608183.63 | 8991.73281 | 0.00425 | 2.70752 | 3.05498E-05 | 0.00428 |
| 491812.39 | 3608167.97 | 7461.70142 | 0.00352 | 2.04387 | 2.30616E-05 | 0.00355 |
| 491819.76 | 3608146.77 | 6015.00085 | 0.00284 | 1.44327 | 1.62849E-05 | 0.00286 |
| 491840.03 | 3608155.06 | 8586.85941 | 0.00405 | 1.76573 | 1.99233E-05 | 0.00407 |
| 491868.6 | 3608170.73 | 15061.64567 | 0.00711 | 2.33746 | 2.63743E-05 | 0.00714 |
| 491865.26 | 3608414.36 | 589528.9513 | 0.27837 | 2.83789 | 3.20208E-05 | 0.27840 |
| 491867.52 | 3608403.04 | 603276.5021 | 0.28486 | 3.15933 | 3.56477E-05 | 0.28489 |
| 491872.05 | 3608392.29 | 591456.4074 | 0.27928 | 3.45016 | 3.89293E-05 | 0.27931 |
| 491874.88 | 3608377.58 | 597304.6585 | 0.28204 | 4.03201 | 4.54945E-05 | 0.28208 |
| 491886.76 | 3608431.91 | 388718.8886 | 0.18355 | 2.05662 | 2.32055E-05 | 0.18357 |
| 491890.73 | 3608422.29 | 390103.9893 | 0.18420 | 2.21408 | 2.49822E-05 | 0.18423 |
| 491896.39 | 3608409.84 | 385911.6877 | 0.18222 | 2.42670 | 2.73812E-05 | 0.18225 |
| 491900.35 | 3608397.38 | 386378.606 | 0.18244 | 2.69290 | 3.03849E-05 | 0.18247 |
| 491903.74 | 3608384.93 | 384883.2425 | 0.18174 | 3.01035 | 3.39668E-05 | 0.18177 |
| 491912.8 | 3608444.92 | 257671.8221 | 0.12167 | 1.56146 | 1.76185E-05 | 0.12169 |
| 491917.89 | 3608432.47 | 263360.5712 | 0.12435 | 1.71251 | 1.93228E-05 | 0.12437 |

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|---|---|---|---|---|---|---|
| 491921.29 | 3608418.89 | 272794.7326 | 0.12881 | 1.91468 | 2.16040E-05 | 0.12883 |
| 491926.95 | 3608408.14 | 268804.5308 | 0.12693 | 2.05708 | 2.32107E-05 | 0.12695 |
| 491930.91 | 3608396.25 | 268530.5384 | 0.12680 | 2.25717 | 2.54684E-05 | 0.12682 |
| 491950.72 | 3608425.12 | 194646.6309 | 0.09191 | 1.54420 | 1.74237E-05 | 0.09193 |
| 491954.11 | 3608416.06 | 196618.6307 | 0.09284 | 1.64752 | 1.85895E-05 | 0.09286 |
| 491959.21 | 3608404.74 | 195737.5449 | 0.09242 | 1.77690 | 2.00493E-05 | 0.09244 |
| 491984.11 | 3608467.56 | 110109.8527 | 0.05199 | 0.91756 | 1.03531E-05 | 0.05200 |
| 491987.5 | 3608453.98 | 118307.1477 | 0.05586 | 1.01343 | 1.14349E-05 | 0.05587 |
| 491993.16 | 3608442.66 | 121481.4834 | 0.05736 | 1.08708 | 1.22659E-05 | 0.05737 |
| 491998.26 | 3608432.47 | 123421.6186 | 0.05828 | 1.15656 | 1.30498E-05 | 0.05829 |
| 492002.22 | 3608421.15 | 126246.5201 | 0.05961 | 1.24684 | 1.40685E-05 | 0.05963 |
| 492012.41 | 3608475.49 | 83621.49564 | 0.03948 | 0.77086 | 8.69786E-06 | 0.03949 |
| 492015.24 | 3608463.6 | 89538.12932 | 0.04228 | 0.83799 | 9.45531E-06 | 0.04229 |
| 492020.9 | 3608451.15 | 93343.85437 | 0.04408 | 0.90443 | 1.02050E-05 | 0.04409 |
| 492024.29 | 3608441.53 | 96373.73261 | 0.04551 | 0.96222 | 1.08570E-05 | 0.04552 |
| 492028.25 | 3608428.51 | 100102.7559 | 0.04727 | 1.04776 | 1.18222E-05 | 0.04728 |
| 492037.31 | 3608486.24 | 64997.07485 | 0.03069 | 0.64922 | 7.32536E-06 | 0.03070 |
| 492042.4 | 3608472.09 | 70003.93619 | 0.03305 | 0.70953 | 8.00586E-06 | 0.03306 |
| 492046.36 | 3608461.34 | 73396.40947 | 0.03466 | 0.75843 | 8.55761E-06 | 0.03467 |
| 492050.89 | 3608450.58 | 76111.04301 | 0.03594 | 0.80837 | 9.12110E-06 | 0.03595 |
| 492055.42 | 3608440.4 | 78120.56521 | 0.03689 | 0.85687 | 9.66834E-06 | 0.03690 |
| 492065.61 | 3608493.6 | 51730.61634 | 0.02443 | 0.56015 | 6.32035E-06 | 0.02443 |
| 492069 | 3608481.15 | 55673.63012 | 0.02629 | 0.60579 | 6.83533E-06 | 0.02630 |
| 492075.23 | 3608469.26 | 58198.33458 | 0.02748 | 0.64600 | 7.28903E-06 | 0.02749 |
| 492078.06 | 3608457.38 | 61580.37877 | 0.02908 | 0.69626 | 7.85613E-06 | 0.02909 |
| 492082.59 | 3608446.62 | 63614.62687 | 0.03004 | 0.73928 | 8.34154E-06 | 0.03005 |
| 491873.18 | 3608334.56 | 510026.4393 | 0.24083 | 7.44433 | 8.39968E-05 | 0.24091 |
| 491929.78 | 3608349.84 | 275582.9614 | 0.13013 | 3.59829 | 4.06007E-05 | 0.13017 |
| 491879.97 | 3608317.02 | 336657.7205 | 0.15896 | 7.99283 | 9.01857E-05 | 0.15905 |
| 491893.22 | 3608305.33 | 244539.0944 | 0.11547 | 7.09578 | 8.00640E-05 | 0.11555 |
| 491889.89 | 3608289.35 | 180966.3293 | 0.08545 | 7.41382 | 8.36525E-05 | 0.08553 |
| 491907.21 | 3608277.37 | 138377.9598 | 0.06534 | 6.01035 | 6.78167E-05 | 0.06541 |
| 491909.87 | 3608246.74 | 79154.74331 | 0.03738 | 4.98056 | 5.61973E-05 | 0.03743 |
| 491914.53 | 3608232.76 | 62103.64315 | 0.02932 | 4.32670 | 4.88196E-05 | 0.02937 |
| 491920.52 | 3608219.44 | 50060.99609 | 0.02364 | 3.72852 | 4.20701E-05 | 0.02368 |
| 491923.85 | 3608203.46 | 38703.0525 | 0.01827 | 3.15801 | 3.56329E-05 | 0.01831 |
| 491922.52 | 3608187.48 | 29639.67512 | 0.01400 | 2.68938 | 3.03451E-05 | 0.01403 |
| 491933.84 | 3608176.16 | 26152.75972 | 0.01235 | 2.31799 | 2.61546E-05 | 0.01238 |
| 491936.5 | 3608332.63 | 234523.5732 | 0.11074 | 3.92068 | 4.42383E-05 | 0.11078 |
| 491945.82 | 3608306.66 | 173169.8634 | 0.08177 | 4.13765 | 4.66865E-05 | 0.08181 |
| 491948.49 | 3608292.02 | 145064.0697 | 0.06850 | 4.17470 | 4.71045E-05 | 0.06854 |
| 491954.48 | 3608266.71 | 103224.5835 | 0.04874 | 3.92112 | 4.42433E-05 | 0.04879 |
| 491965.8 | 3608249.4 | 80108.96105 | 0.03783 | 3.44176 | 3.88345E-05 | 0.03786 |
| 491959.81 | 3608230.76 | 62686.59318 | 0.02960 | 3.27610 | 3.69653E-05 | 0.02964 |

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| 491973.12 | 3608219.44 | 53627.38352 | 0.02532 | 2.85414 | 3.22042E-05 | 0.02535 |
| 491965.13 | 3608198.8 | 40196.10183 | 0.01898 | 2.57399 | 2.90432E-05 | 0.01901 |
| 491987.11 | 3608190.14 | 36888.98902 | 0.01742 | 2.21423 | 2.49839E-05 | 0.01744 |
| 491975.79 | 3608366.59 | 178873.4984 | 0.08446 | 2.25235 | 2.54140E-05 | 0.08449 |
| 491980.45 | 3608353.27 | 169371.4764 | 0.07997 | 2.42270 | 2.73361E-05 | 0.08000 |
| 491988.44 | 3608337.29 | 152041.2074 | 0.07179 | 2.55377 | 2.88150E-05 | 0.07182 |
| 491991.77 | 3608319.32 | 136973.1522 | 0.06468 | 2.73973 | 3.09133E-05 | 0.06471 |
| 492001.09 | 3608294.68 | 110325.6905 | 0.05209 | 2.77387 | 3.12985E-05 | 0.05213 |
| 492006.41 | 3608282.03 | 97363.99563 | 0.04597 | 2.72184 | 3.07114E-05 | 0.04600 |
| 492013.07 | 3608266.05 | 82663.1572 | 0.03903 | 2.61058 | 2.94560E-05 | 0.03906 |
| 492013.07 | 3608251.4 | 72289.32148 | 0.03413 | 2.56586 | 2.89514E-05 | 0.03416 |
| 492028.39 | 3608241.41 | 62887.85268 | 0.02969 | 2.30116 | 2.59647E-05 | 0.02972 |
| 492019.07 | 3608222.77 | 53476.99655 | 0.02525 | 2.28757 | 2.58114E-05 | 0.02528 |
| 492045.7 | 3608210.78 | 45452.49661 | 0.02146 | 1.92083 | 2.16733E-05 | 0.02148 |
| 492031.05 | 3608385.23 | 112727.5006 | 0.05323 | 1.43445 | 1.61854E-05 | 0.05324 |
| 492035.71 | 3608369.92 | 110781.352 | 0.05231 | 1.55699 | 1.75680E-05 | 0.05233 |
| 492027.06 | 3608353.27 | 117475.215 | 0.05547 | 1.81736 | 2.05059E-05 | 0.05549 |
| 492046.36 | 3608339.96 | 100944.5021 | 0.04766 | 1.75203 | 1.97687E-05 | 0.04768 |
| 492040.37 | 3608324.64 | 101087.0358 | 0.04773 | 1.94963 | 2.19983E-05 | 0.04775 |
| 492057.02 | 3608313.32 | 87983.27103 | 0.04154 | 1.84423 | 2.08090E-05 | 0.04157 |
| 492055.69 | 3608297.34 | 82983.20924 | 0.03918 | 1.94539 | 2.19505E-05 | 0.03921 |
| 492059.02 | 3608282.03 | 75410.62761 | 0.03561 | 1.96082 | 2.21246E-05 | 0.03563 |
| 492069.67 | 3608270.04 | 67070.83152 | 0.03167 | 1.86581 | 2.10525E-05 | 0.03169 |
| 492061.68 | 3608253.4 | 62148.13063 | 0.02935 | 1.94735 | 2.19726E-05 | 0.02937 |
| 492078.32 | 3608241.41 | 53934.29894 | 0.02547 | 1.76457 | 1.99102E-05 | 0.02549 |
| 492079.66 | 3608226.76 | 48297.83936 | 0.02281 | 1.71233 | 1.93208E-05 | 0.02282 |
| 492069.51 | 3608395.3 | 84466.80709 | 0.03988 | 1.11315 | 1.25600E-05 | 0.03990 |
| 492076.17 | 3608375.99 | 83704.79149 | 0.03952 | 1.22143 | 1.37818E-05 | 0.03954 |
| 492085.49 | 3608364.01 | 79670.90896 | 0.03762 | 1.25216 | 1.41285E-05 | 0.03763 |
| 492102.14 | 3608406.62 | 66659.39687 | 0.03148 | 0.89809 | 1.01334E-05 | 0.03149 |
| 492129.44 | 3608410.61 | 56135.98193 | 0.02651 | 0.78540 | 8.86192E-06 | 0.02652 |
| 492095.48 | 3608352.69 | 75074.61459 | 0.03545 | 1.26584 | 1.42829E-05 | 0.03546 |
| 492094.15 | 3608336.04 | 74769.00478 | 0.03530 | 1.37757 | 1.55436E-05 | 0.03532 |
| 492135.43 | 3608348.69 | 59822.0277 | 0.02825 | 1.06697 | 1.20390E-05 | 0.02826 |
| 492101.47 | 3608312.74 | 68685.98252 | 0.03243 | 1.44695 | 1.63264E-05 | 0.03245 |
| 492120.78 | 3608244.15 | 47515.56367 | 0.02244 | 1.43698 | 1.62139E-05 | 0.02245 |
| 492106.8 | 3608297.42 | 63920.32042 | 0.03018 | 1.46755 | 1.65588E-05 | 0.03020 |
| 492168.06 | 3608256.14 | 42321.71042 | 0.01998 | 1.15696 | 1.30544E-05 | 0.02000 |
| 491832.47 | 3608106.99 | 4180.27461 | 0.00197 | 0.82048 | 9.25774E-06 | 0.00198 |
| 491853.78 | 3608116.31 | 5792.22388 | 0.00273 | 1.01929 | 1.15010E-05 | 0.00275 |
| 491874.42 | 3608123.64 | 7782.89246 | 0.00367 | 1.19844 | 1.35224E-05 | 0.00369 |
| 491899.72 | 3608128.96 | 10460.46231 | 0.00494 | 1.34443 | 1.51696E-05 | 0.00495 |
| 491836.47 | 3608093.01 | 3710.77936 | 0.00175 | 0.68642 | 7.74510E-06 | 0.00176 |
| 491877.09 | 3608106.33 | 6350.14878 | 0.00300 | 0.95334 | 1.07568E-05 | 0.00301 |

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| 491905.05 | 3608118.98 | 9510.661 | 0.00449 | 1.19114 | 1.34400E-05 | 0.00450 |
| 491907.71 | 3608101.66 | 7734.16153 | 0.00365 | 0.96262 | 1.08616E-05 | 0.00366 |
| 491883.74 | 3608091.01 | 5569.59303 | 0.00263 | 0.79462 | 8.96596E-06 | 0.00264 |
| 491848.45 | 3608065.04 | 3079.74148 | 0.00145 | 0.50327 | 5.67856E-06 | 0.00146 |
| 491853.12 | 3608053.06 | 2845.00857 | 0.00134 | 0.44410 | 5.01092E-06 | 0.00135 |
| 491873.09 | 3608063.05 | 3716.66742 | 0.00175 | 0.54139 | 6.10868E-06 | 0.00176 |
| 491909.71 | 3608072.37 | 5512.02895 | 0.00260 | 0.67690 | 7.63768E-06 | 0.00261 |
| 491921.03 | 3608059.05 | 5157.77157 | 0.00244 | 0.59639 | 6.72926E-06 | 0.00244 |
| 491925.69 | 3608040.41 | 4365.67123 | 0.00206 | 0.49036 | 5.53289E-06 | 0.00207 |
| 491856.44 | 3608031.75 | 2391.11038 | 0.00113 | 0.35189 | 3.97049E-06 | 0.00113 |
| 491867.1 | 3608010.44 | 2147.01462 | 0.00101 | 0.29200 | 3.29473E-06 | 0.00102 |
| 491875.09 | 3607976.49 | 1718.34971 | 0.00081 | 0.21562 | 2.43291E-06 | 0.00081 |
| 491918.37 | 3607991.8 | 2607.50294 | 0.00123 | 0.28963 | 3.26799E-06 | 0.00123 |
| 491945 | 3608000.46 | 3347.42556 | 0.00158 | 0.34252 | 3.86476E-06 | 0.00158 |
| 491935.09 | 3608141.53 | 15811.72963 | 0.00747 | 1.58326 | 1.78644E-05 | 0.00748 |
| 491960.9 | 3608152.59 | 20885.93528 | 0.00986 | 1.72935 | 1.95128E-05 | 0.00988 |
| 491988.54 | 3608164.57 | 26680.53337 | 0.01260 | 1.81216 | 2.04472E-05 | 0.01262 |
| 491946.15 | 3608114.81 | 11726.3336 | 0.00554 | 1.17209 | 1.32251E-05 | 0.00555 |
| 491988.54 | 3608129.55 | 17191.33706 | 0.00812 | 1.33436 | 1.50560E-05 | 0.00813 |
| 492018.04 | 3608107.44 | 14609.94337 | 0.00690 | 1.06121 | 1.19740E-05 | 0.00691 |
| 491955.37 | 3608089 | 8955.75981 | 0.00423 | 0.88806 | 1.00203E-05 | 0.00424 |
| 491963.66 | 3608059.51 | 6685.43509 | 0.00316 | 0.65486 | 7.38900E-06 | 0.00316 |
| 491984.86 | 3608059.51 | 7477.34499 | 0.00353 | 0.67462 | 7.61196E-06 | 0.00354 |
| 492031.86 | 3608066.89 | 9871.96109 | 0.00466 | 0.74218 | 8.37426E-06 | 0.00467 |
| 492020.8 | 3608040.16 | 7216.79234 | 0.00341 | 0.58284 | 6.57637E-06 | 0.00341 |
| 491977.49 | 3608027.26 | 5172.79373 | 0.00244 | 0.48467 | 5.46869E-06 | 0.00245 |
| 491983.94 | 3608007.9 | 4445.64427 | 0.00210 | 0.40747 | 4.59762E-06 | 0.00210 |
| 492044.76 | 3608018.04 | 6426.81543 | 0.00303 | 0.49104 | 5.54056E-06 | 0.00304 |
| 492048.45 | 3608001.45 | 5605.04851 | 0.00265 | 0.42857 | 4.83569E-06 | 0.00265 |
| 491999.6 | 3607989.47 | 4066.56556 | 0.00192 | 0.35545 | 4.01066E-06 | 0.00192 |
| 492038.31 | 3608171.95 | 30870.0028 | 0.01458 | 1.63629 | 1.84628E-05 | 0.01459 |
| 492047.53 | 3608155.36 | 26046.82328 | 0.01230 | 1.43556 | 1.61979E-05 | 0.01232 |
| 492086.23 | 3608187.61 | 34800.01113 | 0.01643 | 1.48031 | 1.67028E-05 | 0.01645 |
| 492095.45 | 3608171.03 | 29921.10786 | 0.01413 | 1.33609 | 1.50755E-05 | 0.01414 |
| 492053.98 | 3608123.1 | 18782.21306 | 0.00887 | 1.13753 | 1.28351E-05 | 0.00888 |
| 492109.27 | 3608145.22 | 23826.16581 | 0.01125 | 1.13313 | 1.27855E-05 | 0.01126 |
| 492058.59 | 3608100.06 | 14968.14869 | 0.00707 | 0.95426 | 1.07672E-05 | 0.00708 |
| 492123.1 | 3608113.89 | 18276.37331 | 0.00863 | 0.92760 | 1.04664E-05 | 0.00864 |
| 492135.08 | 3608094.53 | 15629.64783 | 0.00738 | 0.81189 | 9.16082E-06 | 0.00739 |
| 492076.1 | 3608065.04 | 11034.36032 | 0.00521 | 0.72072 | 8.13212E-06 | 0.00522 |
| 492085.31 | 3608030.02 | 8189.43118 | 0.00387 | 0.55127 | 6.22016E-06 | 0.00387 |
| 492139.69 | 3608065.96 | 12391.12724 | 0.00585 | 0.68060 | 7.67943E-06 | 0.00586 |
| 492139.69 | 3608212.5 | 37320.35401 | 0.01762 | 1.27558 | 1.43928E-05 | 0.01764 |
| 492183.92 | 3608227.24 | 35481.27135 | 0.01675 | 1.08028 | 1.21892E-05 | 0.01677 |

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| 492143.37 | 3608192.22 | 32542.94347 | 0.01537 | 1.20370 | 1.35817E-05 | 0.01538 |
| 492194.98 | 3608204.2 | 30785.83068 | 0.01454 | 1.01145 | 1.14125E-05 | 0.01455 |
| 492203.28 | 3608183.01 | 27032.74153 | 0.01276 | 0.94695 | 1.06847E-05 | 0.01278 |
| 492151.67 | 3608153.52 | 24592.58173 | 0.01161 | 1.03352 | 1.16615E-05 | 0.01162 |
| 492197.75 | 3608162.73 | 24382.24963 | 0.01151 | 0.91938 | 1.03737E-05 | 0.01152 |
| 492159.04 | 3608135.08 | 21371.48879 | 0.01009 | 0.93915 | 1.05967E-05 | 0.01010 |
| 492164.57 | 3608118.49 | 18861.03342 | 0.00891 | 0.86053 | 9.70964E-06 | 0.00892 |
| 492219.86 | 3608141.53 | 20767.73595 | 0.00981 | 0.80792 | 9.11602E-06 | 0.00982 |
| 492223.55 | 3608114.81 | 17605.82478 | 0.00831 | 0.73113 | 8.24958E-06 | 0.00832 |
| 492231.84 | 3608098.22 | 15772.55758 | 0.00745 | 0.67306 | 7.59435E-06 | 0.00746 |
| 492170.1 | 3608097.3 | 16098.24566 | 0.00760 | 0.76825 | 8.66841E-06 | 0.00761 |
| 492180.24 | 3608077.94 | 13955.35376 | 0.00659 | 0.68315 | 7.70820E-06 | 0.00660 |
| 492183.92 | 3608055.83 | 11864.67278 | 0.00560 | 0.60414 | 6.81671E-06 | 0.00561 |
| 492218.94 | 3608068.73 | 13103.09219 | 0.00619 | 0.60903 | 6.87188E-06 | 0.00619 |
| 492246.59 | 3608230.01 | 29459.61125 | 0.01391 | 0.84615 | 9.54739E-06 | 0.01392 |
| 492239.22 | 3608207.89 | 27744.96499 | 0.01310 | 0.86205 | 9.72679E-06 | 0.01311 |
| 492241.98 | 3608194.07 | 25986.19077 | 0.01227 | 0.84196 | 9.50011E-06 | 0.01228 |
| 492246.59 | 3608176.56 | 23745.69812 | 0.01121 | 0.80800 | 9.11693E-06 | 0.01122 |
| 492257.65 | 3608163.65 | 21811.33647 | 0.01030 | 0.76159 | 8.59327E-06 | 0.01031 |
| 492261.34 | 3608145.22 | 19794.15036 | 0.00935 | 0.72336 | 8.16191E-06 | 0.00935 |
| 492266.87 | 3608124.02 | 17592.10804 | 0.00831 | 0.67343 | 7.59853E-06 | 0.00831 |
| 492272.39 | 3608108.36 | 16065.59041 | 0.00759 | 0.63341 | 7.14697E-06 | 0.00759 |
| 492277.92 | 3608094.53 | 14809.70621 | 0.00699 | 0.59758 | 6.74269E-06 | 0.00700 |
| 492285.3 | 3608081.63 | 13701.00363 | 0.00647 | 0.56237 | 6.34540E-06 | 0.00648 |
| 491685.34 | 3608168.26 | 1905.1755 | 0.00090 | 0.95379 | 1.07619E-05 | 0.00091 |
| 491689.95 | 3608145.22 | 1616.14261 | 0.00076 | 0.68053 | 7.67864E-06 | 0.00077 |
| 491694.56 | 3608131.4 | 1490.70102 | 0.00070 | 0.57313 | 6.46681E-06 | 0.00071 |
| 491698.24 | 3608118.49 | 1381.51988 | 0.00065 | 0.49193 | 5.55061E-06 | 0.00066 |
| 491701.01 | 3608105.59 | 1277.01571 | 0.00060 | 0.42458 | 4.79067E-06 | 0.00061 |
| 491703.77 | 3608093.61 | 1191.86472 | 0.00056 | 0.37342 | 4.21342E-06 | 0.00057 |
| 491707.46 | 3608079.79 | 1107.7138 | 0.00052 | 0.32522 | 3.66956E-06 | 0.00053 |
| 491713.91 | 3608070.57 | 1083.94065 | 0.00051 | 0.30182 | 3.40553E-06 | 0.00052 |
| 491715.75 | 3608058.59 | 1012.41747 | 0.00048 | 0.26913 | 3.03668E-06 | 0.00048 |
| 491720.36 | 3608046.61 | 964.20218 | 0.00046 | 0.24322 | 2.74433E-06 | 0.00046 |
| 491732.34 | 3608014.36 | 849.87505 | 0.00040 | 0.18861 | 2.12815E-06 | 0.00040 |
| 491735.11 | 3608002.37 | 804.64468 | 0.00038 | 0.17194 | 1.94005E-06 | 0.00038 |
| 491735.11 | 3607991.32 | 754.55705 | 0.00036 | 0.15735 | 1.77543E-06 | 0.00036 |
| 491744.32 | 3607980.26 | 748.06203 | 0.00035 | 0.14774 | 1.66700E-06 | 0.00035 |
| 491747.09 | 3607967.35 | 707.05832 | 0.00033 | 0.13494 | 1.52257E-06 | 0.00034 |
| 491755.38 | 3607954.45 | 690.7191 | 0.00033 | 0.12526 | 1.41335E-06 | 0.00033 |
| 491759.07 | 3607939.71 | 651.23376 | 0.00031 | 0.11385 | 1.28461E-06 | 0.00031 |
| 491636.5 | 3608156.28 | 1317.55011 | 0.00062 | 0.61405 | 6.92853E-06 | 0.00063 |
| 491618.06 | 3608148.91 | 1155.56399 | 0.00055 | 0.50736 | 5.72471E-06 | 0.00055 |
| 491598.71 | 3608143.38 | 1035.22776 | 0.00049 | 0.42946 | 4.84574E-06 | 0.00049 |

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| 491579.36 | 3608134.16 | 915.03025 | 0.00043 | 0.35221 | 3.97410E-06 | 0.00044 |
| 491565.53 | 3608132.32 | 865.75646 | 0.00041 | 0.32156 | 3.62827E-06 | 0.00041 |
| 491548.94 | 3608123.1 | 781.22765 | 0.00037 | 0.27180 | 3.06681E-06 | 0.00037 |
| 491654.01 | 3608119.42 | 1093.05063 | 0.00052 | 0.41940 | 4.73223E-06 | 0.00052 |
| 491663.22 | 3608133.24 | 1261.55124 | 0.00060 | 0.51410 | 5.80076E-06 | 0.00060 |
| 491657.69 | 3608106.51 | 1016.55434 | 0.00048 | 0.36746 | 4.14617E-06 | 0.00048 |
| 491663.22 | 3608094.53 | 961.6658 | 0.00045 | 0.32912 | 3.71357E-06 | 0.00046 |
| 491674.28 | 3608094.53 | 1013.91396 | 0.00048 | 0.34110 | 3.84874E-06 | 0.00048 |
| 491681.65 | 3608086.24 | 996.05117 | 0.00047 | 0.31991 | 3.60965E-06 | 0.00047 |
| 491686.26 | 3608072.42 | 932.10878 | 0.00044 | 0.28186 | 3.18032E-06 | 0.00044 |
| 491663.22 | 3608078.87 | 868.71747 | 0.00041 | 0.28068 | 3.16700E-06 | 0.00041 |
| 491671.52 | 3608072.42 | 865.98489 | 0.00041 | 0.27000 | 3.04650E-06 | 0.00041 |
| 491676.12 | 3608058.59 | 812.08348 | 0.00038 | 0.23991 | 2.70698E-06 | 0.00039 |
| 491678.89 | 3608048.45 | 773.86256 | 0.00037 | 0.22037 | 2.48651E-06 | 0.00037 |
| 491690.87 | 3608053.98 | 850.17689 | 0.00040 | 0.23929 | 2.69999E-06 | 0.00040 |
| 491695.48 | 3608035.55 | 779.20615 | 0.00037 | 0.20522 | 2.31556E-06 | 0.00037 |
| 491701.93 | 3608024.49 | 755.88226 | 0.00036 | 0.18973 | 2.14079E-06 | 0.00036 |
| 491624.52 | 3608121.26 | 982.59795 | 0.00046 | 0.38106 | 4.29962E-06 | 0.00047 |
| 491615.3 | 3608116.65 | 923.03046 | 0.00044 | 0.34920 | 3.94014E-06 | 0.00044 |
| 491603.32 | 3608112.97 | 867.25904 | 0.00041 | 0.31999 | 3.61055E-06 | 0.00041 |
| 491590.42 | 3608107.44 | 806.51646 | 0.00038 | 0.28739 | 3.24271E-06 | 0.00038 |
| 491582.12 | 3608104.67 | 774.91834 | 0.00037 | 0.27053 | 3.05248E-06 | 0.00037 |
| 491567.38 | 3608101.91 | 732.68088 | 0.00035 | 0.24793 | 2.79747E-06 | 0.00035 |
| 491553.55 | 3608094.53 | 678.74608 | 0.00032 | 0.21986 | 2.48075E-06 | 0.00032 |
| 491560 | 3608079.79 | 637.30235 | 0.00030 | 0.20076 | 2.26524E-06 | 0.00030 |
| 491571.98 | 3608083.47 | 669.156 | 0.00032 | 0.21644 | 2.44216E-06 | 0.00032 |
| 491585.81 | 3608088.08 | 711.15424 | 0.00034 | 0.23709 | 2.67516E-06 | 0.00034 |
| 491599.63 | 3608094.53 | 766.78998 | 0.00036 | 0.26452 | 2.98467E-06 | 0.00037 |
| 491614.38 | 3608097.3 | 814.843 | 0.00038 | 0.28675 | 3.23549E-06 | 0.00039 |
| 491626.36 | 3608102.83 | 877.45895 | 0.00041 | 0.31637 | 3.56971E-06 | 0.00042 |
| 491630.97 | 3608077.94 | 763.464 | 0.00036 | 0.25250 | 2.84904E-06 | 0.00036 |
| 491613.46 | 3608071.49 | 696.20751 | 0.00033 | 0.22558 | 2.54529E-06 | 0.00033 |
| 491635.57 | 3608062.28 | 706.00578 | 0.00033 | 0.22214 | 2.50648E-06 | 0.00034 |
| 491647.56 | 3608065.04 | 748.59786 | 0.00035 | 0.23548 | 2.65700E-06 | 0.00036 |
| 491568.3 | 3608046.61 | 544.90445 | 0.00026 | 0.16037 | 1.80951E-06 | 0.00026 |
| 491556.32 | 3608038.32 | 510.16707 | 0.00024 | 0.14559 | 1.64274E-06 | 0.00024 |
| 491572.91 | 3608032.79 | 512.18472 | 0.00024 | 0.14698 | 1.65842E-06 | 0.00024 |
| 491594.1 | 3608048.45 | 581.94028 | 0.00027 | 0.17577 | 1.98327E-06 | 0.00028 |
| 491589.49 | 3608035.55 | 537.61888 | 0.00025 | 0.15714 | 1.77306E-06 | 0.00026 |
| 491608.85 | 3608039.24 | 573.67335 | 0.00027 | 0.17041 | 1.92279E-06 | 0.00027 |
| 491612.53 | 3608025.41 | 537.6352 | 0.00025 | 0.15465 | 1.74497E-06 | 0.00026 |
| 491625.44 | 3608040.16 | 603.03153 | 0.00028 | 0.17932 | 2.02333E-06 | 0.00029 |
| 491636.5 | 3608029.1 | 586.7769 | 0.00028 | 0.16872 | 1.90372E-06 | 0.00028 |
| 491654.01 | 3608027.26 | 616.81819 | 0.00029 | 0.17328 | 1.95517E-06 | 0.00029 |

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| 491643.87 | 3608011.59 | 547.07422 | 0.00026 | 0.14986 | 1.69092E-06 | 0.00026 |
| 491667.83 | 3608015.28 | 609.90493 | 0.00029 | 0.16255 | 1.83410E-06 | 0.00029 |
| 491689.03 | 3607995 | 601.27188 | 0.00028 | 0.14560 | 1.64285E-06 | 0.00029 |
| 491681.65 | 3607976.57 | 528.80566 | 0.00025 | 0.12538 | 1.41470E-06 | 0.00025 |
| 491704.69 | 3607986.71 | 621.67149 | 0.00029 | 0.14150 | 1.59659E-06 | 0.00030 |
| 491713.91 | 3607971.96 | 603.37593 | 0.00028 | 0.12953 | 1.46153E-06 | 0.00029 |
| 491725.89 | 3607958.14 | 598.23444 | 0.00028 | 0.12042 | 1.35874E-06 | 0.00028 |
| 491711.15 | 3607949.84 | 531.94139 | 0.00025 | 0.11043 | 1.24602E-06 | 0.00025 |
| 491729.58 | 3607943.39 | 565.80717 | 0.00027 | 0.10966 | 1.23733E-06 | 0.00027 |
| 491714.83 | 3607935.1 | 504.2339 | 0.00024 | 0.10089 | 1.13837E-06 | 0.00024 |
| 491724.97 | 3607923.12 | 500.55027 | 0.00024 | 0.09521 | 1.07429E-06 | 0.00024 |
| 491737.87 | 3607928.65 | 548.86938 | 0.00026 | 0.10112 | 1.14097E-06 | 0.00026 |
| 491735.11 | 3607910.22 | 495.12574 | 0.00023 | 0.08948 | 1.00963E-06 | 0.00023 |
| 491558.16 | 3608010.67 | 446.76664 | 0.00021 | 0.12114 | 1.36686E-06 | 0.00021 |
| 491579.36 | 3607998.69 | 437.37975 | 0.00021 | 0.11796 | 1.33098E-06 | 0.00021 |
| 491595.95 | 3608003.3 | 462.03995 | 0.00022 | 0.12660 | 1.42847E-06 | 0.00022 |
| 491613.46 | 3607995.92 | 463.12885 | 0.00022 | 0.12513 | 1.41188E-06 | 0.00022 |
| 491599.63 | 3607983.94 | 423.43448 | 0.00020 | 0.11194 | 1.26306E-06 | 0.00020 |
| 491623.59 | 3607979.33 | 437.88119 | 0.00021 | 0.11409 | 1.28731E-06 | 0.00021 |
| 491640.18 | 3607983.02 | 467.47351 | 0.00022 | 0.12094 | 1.36461E-06 | 0.00022 |
| 491660.46 | 3607968.28 | 466.12239 | 0.00022 | 0.11369 | 1.28280E-06 | 0.00022 |
| 491659.54 | 3607951.69 | 429.57667 | 0.00020 | 0.10173 | 1.14785E-06 | 0.00020 |
| 491677.05 | 3607950.77 | 457.63343 | 0.00022 | 0.10432 | 1.17708E-06 | 0.00022 |
| 491682.58 | 3607937.86 | 441.04738 | 0.00021 | 0.09695 | 1.09392E-06 | 0.00021 |
| 491670.6 | 3607928.65 | 403.26628 | 0.00019 | 0.08970 | 1.01211E-06 | 0.00019 |
| 491694.56 | 3607921.27 | 430.62047 | 0.00020 | 0.08923 | 1.00681E-06 | 0.00020 |
| 491682.58 | 3607913.9 | 396.2858 | 0.00019 | 0.08368 | 9.44189E-07 | 0.00019 |
| 491682.58 | 3607901.92 | 376.39613 | 0.00018 | 0.07800 | 8.80099E-07 | 0.00018 |
| 491705.62 | 3607902.84 | 416.61693 | 0.00020 | 0.08134 | 9.17786E-07 | 0.00020 |
| 491561.62 | 3607964.09 | 361.52381 | 0.00017 | 0.09104 | 1.02723E-06 | 0.00017 |
| 491578.12 | 3607959.66 | 363.39121 | 0.00017 | 0.09175 | 1.03525E-06 | 0.00017 |
| 491573.42 | 3607943.99 | 336.42249 | 0.00016 | 0.08283 | 9.34598E-07 | 0.00016 |
| 491600.84 | 3607959.66 | 378.65901 | 0.00018 | 0.09601 | 1.08331E-06 | 0.00018 |
| 491591.44 | 3607944.77 | 347.74317 | 0.00016 | 0.08613 | 9.71833E-07 | 0.00017 |
| 491603.97 | 3607934.59 | 340.58815 | 0.00016 | 0.08299 | 9.36403E-07 | 0.00016 |
| 491615.72 | 3607947.91 | 370.81638 | 0.00018 | 0.09183 | 1.03615E-06 | 0.00018 |
| 491636.09 | 3607933.02 | 366.04732 | 0.00017 | 0.08695 | 9.81085E-07 | 0.00017 |
| 491625.12 | 3607917.35 | 332.03167 | 0.00016 | 0.07785 | 8.78407E-07 | 0.00016 |
| 491644.71 | 3607918.92 | 353.35695 | 0.00017 | 0.08111 | 9.15191E-07 | 0.00017 |
| 491642.36 | 3607896.99 | 320.10969 | 0.00015 | 0.07132 | 8.04727E-07 | 0.00015 |
| 491658.03 | 3607905.6 | 348.86545 | 0.00016 | 0.07669 | 8.65318E-07 | 0.00017 |
| 491665.08 | 3607887.59 | 331.99941 | 0.00016 | 0.07005 | 7.90397E-07 | 0.00016 |
| 491647.06 | 3607883.67 | 307.77096 | 0.00015 | 0.06677 | 7.53388E-07 | 0.00015 |
| 491564.8 | 3607922.84 | 303.4827 | 0.00014 | 0.07232 | 8.16010E-07 | 0.00014 |

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|---|---|---|---|---|---|---|
| 491587.52 | 3607913.44 | 301.75849 | 0.00014 | 0.07149 | 8.06645E-07 | 0.00014 |
| 491573.42 | 3607903.25 | 283.1073 | 0.00013 | 0.06604 | 7.45151E-07 | 0.00013 |
| 491607.11 | 3607896.2 | 291.63159 | 0.00014 | 0.06721 | 7.58352E-07 | 0.00014 |
| 491603.97 | 3607878.97 | 270.49998 | 0.00013 | 0.06106 | 6.88960E-07 | 0.00013 |
| 491621.99 | 3607877.4 | 279.96461 | 0.00013 | 0.06223 | 7.02161E-07 | 0.00013 |
| 491892.25 | 3607962.79 | 1729.53705 | 0.00082 | 0.20211 | 2.28047E-06 | 0.00082 |
| 491943.96 | 3607975.32 | 2655.68093 | 0.00125 | 0.26865 | 3.03127E-06 | 0.00126 |
| 491586.79 | 3608712.31 | 8409.91149 | 0.00397 | 0.25537 | 2.88142E-06 | 0.00397 |
| 491579.14 | 3608732.72 | 7291.76171 | 0.00344 | 0.22345 | 2.52126E-06 | 0.00345 |
| 491579.14 | 3608751.86 | 6533.0195 | 0.00308 | 0.19896 | 2.24493E-06 | 0.00309 |
| 491563.83 | 3608778.64 | 5465.98803 | 0.00258 | 0.17032 | 1.92178E-06 | 0.00258 |
| 491558.73 | 3608797.78 | 4905.57279 | 0.00232 | 0.15360 | 1.73312E-06 | 0.00232 |
| 491545.97 | 3608824.57 | 4212.34249 | 0.00199 | 0.13396 | 1.51151E-06 | 0.00199 |
| 491543.42 | 3608838.6 | 3929.01444 | 0.00186 | 0.12516 | 1.41222E-06 | 0.00186 |
| 491534.49 | 3608869.21 | 3382.56676 | 0.00160 | 0.10868 | 1.22627E-06 | 0.00160 |
| 491635.26 | 3608725.07 | 8556.303 | 0.00404 | 0.23968 | 2.70439E-06 | 0.00404 |
| 491665.88 | 3608731.45 | 8360.83188 | 0.00395 | 0.23355 | 2.63522E-06 | 0.00395 |
| 491654.4 | 3608756.96 | 6906.22993 | 0.00326 | 0.19926 | 2.24832E-06 | 0.00326 |
| 491627.61 | 3608748.03 | 7224.74672 | 0.00341 | 0.20756 | 2.34197E-06 | 0.00341 |
| 491621.23 | 3608764.61 | 6439.38955 | 0.00304 | 0.18774 | 2.11833E-06 | 0.00304 |
| 491651.85 | 3608772.27 | 6214.64483 | 0.00293 | 0.18240 | 2.05808E-06 | 0.00294 |
| 491635.26 | 3608823.29 | 4517.60807 | 0.00213 | 0.13801 | 1.55721E-06 | 0.00213 |
| 491608.48 | 3608810.54 | 4835.62481 | 0.00228 | 0.14544 | 1.64105E-06 | 0.00228 |
| 491603.37 | 3608829.67 | 4336.69451 | 0.00205 | 0.13187 | 1.48793E-06 | 0.00205 |
| 491627.61 | 3608838.6 | 4143.13594 | 0.00196 | 0.12751 | 1.43874E-06 | 0.00196 |
| 491622.51 | 3608866.66 | 3564.66602 | 0.00168 | 0.11155 | 1.25865E-06 | 0.00168 |
| 491590.62 | 3608859.01 | 3701.20145 | 0.00175 | 0.11431 | 1.28980E-06 | 0.00175 |
| 491586.79 | 3608875.59 | 3404.77827 | 0.00161 | 0.10597 | 1.19569E-06 | 0.00161 |
| 491617.41 | 3608884.52 | 3257.20091 | 0.00154 | 0.10280 | 1.15993E-06 | 0.00154 |
| 491707.97 | 3608753.13 | 7153.25801 | 0.00338 | 0.20753 | 2.34163E-06 | 0.00338 |
| 491702.87 | 3608768.44 | 6396.431 | 0.00302 | 0.18982 | 2.14180E-06 | 0.00302 |
| 491696.49 | 3608791.4 | 5468.59705 | 0.00258 | 0.16695 | 1.88375E-06 | 0.00258 |
| 491688.84 | 3608805.43 | 4998.74356 | 0.00236 | 0.15457 | 1.74406E-06 | 0.00236 |
| 491683.74 | 3608834.77 | 4189.63762 | 0.00198 | 0.13298 | 1.50046E-06 | 0.00198 |
| 491674.81 | 3608851.36 | 3820.01121 | 0.00180 | 0.12236 | 1.38063E-06 | 0.00181 |
| 491669.71 | 3608874.32 | 3379.43532 | 0.00160 | 0.10986 | 1.23959E-06 | 0.00160 |
| 491667.15 | 3608903.66 | 2914.7126 | 0.00138 | 0.09656 | 1.08952E-06 | 0.00138 |
| 491741.14 | 3608758.23 | 6978.56924 | 0.00330 | 0.20192 | 2.27833E-06 | 0.00330 |
| 491733.49 | 3608772.27 | 6281.67673 | 0.00297 | 0.18683 | 2.10806E-06 | 0.00297 |
| 491727.11 | 3608797.78 | 5275.56965 | 0.00249 | 0.16283 | 1.83726E-06 | 0.00249 |
| 491720.73 | 3608809.26 | 4893.44238 | 0.00231 | 0.15316 | 1.72815E-06 | 0.00231 |
| 491711.8 | 3608833.5 | 4219.16689 | 0.00199 | 0.13521 | 1.52562E-06 | 0.00199 |
| 491706.7 | 3608855.18 | 3729.43269 | 0.00176 | 0.12169 | 1.37307E-06 | 0.00176 |
| 491701.6 | 3608871.77 | 3409.51209 | 0.00161 | 0.11253 | 1.26971E-06 | 0.00161 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 491699.05 | 3608899.83 | 2955.05305 | 0.00140 | 0.09935 | 1.12100E-06 | 0.00140 |
| 491778.13 | 3608770.99 | 6583.73997 | 0.00311 | 0.18625 | 2.10152E-06 | 0.00311 |
| 491773.03 | 3608791.4 | 5700.1801 | 0.00269 | 0.16812 | 1.89695E-06 | 0.00269 |
| 491762.83 | 3608811.81 | 4952.10555 | 0.00234 | 0.15217 | 1.71698E-06 | 0.00234 |
| 491760.28 | 3608828.39 | 4468.7311 | 0.00211 | 0.14044 | 1.58463E-06 | 0.00211 |
| 491755.17 | 3608851.36 | 3900.00547 | 0.00184 | 0.12606 | 1.42238E-06 | 0.00184 |
| 491747.52 | 3608869.21 | 3518.43567 | 0.00166 | 0.11604 | 1.30932E-06 | 0.00166 |
| 491738.59 | 3608884.52 | 3229.67762 | 0.00153 | 0.10809 | 1.21961E-06 | 0.00153 |
| 491738.59 | 3608902.38 | 2954.26121 | 0.00139 | 0.10010 | 1.12946E-06 | 0.00140 |
| 491804.92 | 3608781.2 | 6318.52159 | 0.00298 | 0.17405 | 1.96386E-06 | 0.00299 |
| 491802.37 | 3608806.71 | 5337.54307 | 0.00252 | 0.15414 | 1.73921E-06 | 0.00252 |
| 491789.61 | 3608822.02 | 4788.76329 | 0.00226 | 0.14421 | 1.62717E-06 | 0.00226 |
| 491788.34 | 3608839.87 | 4305.57852 | 0.00203 | 0.13287 | 1.49922E-06 | 0.00203 |
| 491774.31 | 3608853.91 | 3917.0837 | 0.00185 | 0.12485 | 1.40872E-06 | 0.00185 |
| 491778.13 | 3608875.59 | 3499.89081 | 0.00165 | 0.11350 | 1.28066E-06 | 0.00165 |
| 491773.03 | 3608892.17 | 3197.355 | 0.00151 | 0.10568 | 1.19242E-06 | 0.00151 |
| 491770.48 | 3608916.41 | 2832.77258 | 0.00134 | 0.09553 | 1.07790E-06 | 0.00134 |
| 491848.29 | 3608793.95 | 5992.71087 | 0.00283 | 0.15787 | 1.78130E-06 | 0.00283 |
| 491845.74 | 3608815.64 | 5237.45045 | 0.00247 | 0.14361 | 1.62040E-06 | 0.00247 |
| 491835.54 | 3608834.77 | 4650.58333 | 0.00220 | 0.13316 | 1.50249E-06 | 0.00220 |
| 491829.16 | 3608859.01 | 4039.55505 | 0.00191 | 0.12055 | 1.36020E-06 | 0.00191 |
| 491824.06 | 3608874.32 | 3704.88695 | 0.00175 | 0.11337 | 1.27919E-06 | 0.00175 |
| 491824.06 | 3608890.9 | 3400.78112 | 0.00161 | 0.10597 | 1.19569E-06 | 0.00161 |
| 491820.23 | 3608904.93 | 3159.29467 | 0.00149 | 0.10030 | 1.13172E-06 | 0.00149 |
| 491818.95 | 3608924.07 | 2877.04023 | 0.00136 | 0.09309 | 1.05036E-06 | 0.00136 |
| 491817.68 | 3608940.65 | 2660.42732 | 0.00126 | 0.08740 | 9.86163E-07 | 0.00126 |
| 491873.81 | 3608822.02 | 5086.34504 | 0.00240 | 0.13605 | 1.53510E-06 | 0.00240 |
| 491864.88 | 3608842.43 | 4525.64689 | 0.00214 | 0.12605 | 1.42226E-06 | 0.00214 |
| 491859.77 | 3608864.11 | 4016.05242 | 0.00190 | 0.11590 | 1.30774E-06 | 0.00190 |
| 491855.95 | 3608878.14 | 3724.29971 | 0.00176 | 0.10990 | 1.24004E-06 | 0.00176 |
| 491849.57 | 3608899.83 | 3323.74804 | 0.00157 | 0.10134 | 1.14345E-06 | 0.00157 |
| 491857.22 | 3608915.14 | 3103.21069 | 0.00147 | 0.09528 | 1.07508E-06 | 0.00147 |
| 491869.98 | 3608930.44 | 2913.47447 | 0.00138 | 0.08953 | 1.01020E-06 | 0.00138 |
| 491890.39 | 3608932.99 | 2909.41727 | 0.00137 | 0.08770 | 9.89548E-07 | 0.00137 |
| 491915.9 | 3608818.19 | 5123.01474 | 0.00242 | 0.13148 | 1.48353E-06 | 0.00242 |
| 491914.63 | 3608838.6 | 4596.72161 | 0.00217 | 0.12148 | 1.37070E-06 | 0.00217 |
| 491904.42 | 3608855.18 | 4234.93498 | 0.00200 | 0.11528 | 1.30074E-06 | 0.00200 |
| 491903.14 | 3608874.32 | 3846.14771 | 0.00182 | 0.10735 | 1.21126E-06 | 0.00182 |
| 491895.49 | 3608897.28 | 3438.65333 | 0.00162 | 0.09929 | 1.12032E-06 | 0.00162 |
| 491915.9 | 3608899.83 | 3397.17383 | 0.00160 | 0.09661 | 1.09008E-06 | 0.00161 |
| 491936.31 | 3608902.38 | 3337.66685 | 0.00158 | 0.09379 | 1.05826E-06 | 0.00158 |
| 491952.89 | 3608910.03 | 3198.84616 | 0.00151 | 0.08973 | 1.01245E-06 | 0.00151 |
| 491966.93 | 3608922.79 | 3001.95003 | 0.00142 | 0.08465 | 9.55133E-07 | 0.00142 |
| 491923.55 | 3608947.03 | 2752.86059 | 0.00130 | 0.08160 | 9.20719E-07 | 0.00130 |

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|---|---|---|---|---|---|---|
| 491945.24 | 3608961.06 | 2590.66041 | 0.00122 | 0.07653 | 8.63513E-07 | 0.00122 |
| 491737.31 | 3608925.34 | 2646.50014 | 0.00125 | 0.09097 | 1.02644E-06 | 0.00125 |
| CONCUNIT ug/ | m^3 | 0 | 0.00000 | 0.00000 | 0.00000E+00 | 0.00000 |
| DEPUNIT g/m^ | 2 | 0 | 0.00000 | 0.00000 | 0.00000E+00 | 0.00000 |

## Moss Street

**Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Infant**

| | | |
|---|---|---|
| **Cancer Potency Factor:** | 1.1 | $(mg/kg\text{-}day)^{-1}$ |
| **Exposure Frequency** | 350 | days/year |
| **Averaging Period** | 25550 | days |

| Year | Unit DPM Concentration (ug/m3) | Age Sensitivty Factor | Daily Breathing Rate (L/kg-day) | Time At Home Factor | Exposure Duration (years) | Unit Risk Factor $(ug/m3)^{-1}$ |
|---|---|---|---|---|---|---|
| 3rd Trimester | 1 | 10 | 361 | 1 | 0.25 | 13.6 |
| 1 | 1 | 10 | 1090 | 1 | 1 | 164.2 |

Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines

## Moss Street

**Tier III mitigati at Sensitive Recptors**

**Estimated Cancer Risks from Construction DPM - Infant Receptors**

| X (m) | Y (m) | InfantCancer Risk (3rd Trimester) 2019 (/million) | Infant Cancer Risk (year 1) 2020 (/million) | Total Cancer Risk (/million) |
|---|---|---|---|---|
| 491856.94 | 3608423.76 | 3.968 | 47.926 | 51.89398 |
| 491770.82 | 3608296.56 | 0.530 | 6.399 | 6.92859 |
| 491786.69 | 3608300.4 | 1.065 | 12.864 | 13.92906 |
| 491777.07 | 3608270.58 | 0.238 | 2.875 | 3.11285 |
| 491794.39 | 3608275.87 | 0.451 | 5.447 | 5.89807 |
| 491789.88 | 3608254.44 | 0.195 | 2.361 | 2.55650 |
| 491793.88 | 3608239.79 | 0.142 | 1.712 | 1.85337 |
| 491796.54 | 3608225.81 | 0.107 | 1.288 | 1.39476 |
| 491799.2 | 3608213.16 | 0.085 | 1.031 | 1.11627 |
| 491804.53 | 3608198.51 | 0.070 | 0.847 | 0.91686 |
| 491835.16 | 3608317.03 | 2.493 | 30.104 | 32.59669 |
| 491837.82 | 3608303.71 | 1.709 | 20.641 | 22.34977 |
| 491843.81 | 3608287.73 | 1.086 | 13.113 | 14.19869 |
| 491851.14 | 3608274.41 | 0.774 | 9.344 | 10.11765 |
| 491863.07 | 3608247.22 | 0.421 | 5.081 | 5.50200 |
| 491867.68 | 3608231.55 | 0.305 | 3.690 | 3.99508 |
| 491875.05 | 3608218.65 | 0.246 | 2.975 | 3.22080 |
| 491878.74 | 3608195.61 | 0.162 | 1.958 | 2.12030 |
| 491885.19 | 3608177.18 | 0.123 | 1.489 | 1.61235 |
| 491807.78 | 3608183.63 | 0.057 | 0.685 | 0.74182 |
| 491812.39 | 3608167.97 | 0.047 | 0.568 | 0.61535 |
| 491819.76 | 3608146.77 | 0.038 | 0.458 | 0.49581 |
| 491840.03 | 3608155.06 | 0.054 | 0.653 | 0.70747 |
| 491868.6 | 3608170.73 | 0.095 | 1.145 | 1.24005 |
| 491865.26 | 3608414.36 | 3.704 | 44.731 | 48.43508 |
| 491867.52 | 3608403.04 | 3.790 | 45.775 | 49.56486 |

| Maximum Caner Risk |
|---|
| 51.9 |
| **SDAQMD threshold of significance** |
| 10 |
| **Exceed thresholds?** |
| YES |

| | | | | |
|---|---|---|---|---|
| 491872.05 | 3608392.29 | 3.716 | 44.878 | 48.59413 |
| 491874.88 | 3608377.58 | 3.753 | 45.323 | 49.07525 |
| 491886.76 | 3608431.91 | 2.442 | 29.495 | 31.93695 |
| 491890.73 | 3608422.29 | 2.451 | 29.600 | 32.05092 |
| 491896.39 | 3608409.84 | 2.425 | 29.282 | 31.70675 |
| 491900.35 | 3608397.38 | 2.427 | 29.318 | 31.74542 |
| 491903.74 | 3608384.93 | 2.418 | 29.205 | 31.62294 |
| 491912.8 | 3608444.92 | 1.619 | 19.552 | 21.17042 |
| 491917.89 | 3608432.47 | 1.655 | 19.983 | 21.63794 |
| 491921.29 | 3608418.89 | 1.714 | 20.699 | 22.41322 |
| 491926.95 | 3608408.14 | 1.689 | 20.397 | 22.08558 |
| 491930.91 | 3608396.25 | 1.687 | 20.376 | 22.06330 |
| 491950.72 | 3608425.12 | 1.223 | 14.770 | 15.99266 |
| 491954.11 | 3608416.06 | 1.235 | 14.919 | 16.15479 |
| 491959.21 | 3608404.74 | 1.230 | 14.853 | 16.08255 |
| 491984.11 | 3608467.56 | 0.692 | 8.355 | 9.04696 |
| 491987.5 | 3608453.98 | 0.743 | 8.977 | 9.72050 |
| 491993.16 | 3608442.66 | 0.763 | 9.218 | 9.98137 |
| 491998.26 | 3608432.47 | 0.775 | 9.365 | 10.14084 |
| 492002.22 | 3608421.15 | 0.793 | 9.580 | 10.37302 |
| 492012.41 | 3608475.49 | 0.525 | 6.345 | 6.87068 |
| 492015.24 | 3608463.6 | 0.563 | 6.794 | 7.35683 |
| 492020.9 | 3608451.15 | 0.586 | 7.083 | 7.66956 |
| 492024.29 | 3608441.53 | 0.606 | 7.313 | 7.91854 |
| 492028.25 | 3608428.51 | 0.629 | 7.596 | 8.22499 |
| 492037.31 | 3608486.24 | 0.408 | 4.932 | 5.34048 |
| 492042.4 | 3608472.09 | 0.440 | 5.312 | 5.75188 |
| 492046.36 | 3608461.34 | 0.461 | 5.569 | 6.03064 |
| 492050.89 | 3608450.58 | 0.478 | 5.776 | 6.25371 |
| 492055.42 | 3608440.4 | 0.491 | 5.928 | 6.41886 |
| 492065.61 | 3608493.6 | 0.325 | 3.925 | 4.25049 |
| 492069 | 3608481.15 | 0.350 | 4.225 | 4.57448 |
| 492075.23 | 3608469.26 | 0.366 | 4.416 | 4.78193 |
| 492078.06 | 3608457.38 | 0.387 | 4.673 | 5.05984 |

| | | | | |
|---|---|---|---|---|
| 492082.59 | 3608446.62 | 0.400 | 4.827 | 5.22701 |
| 491873.18 | 3608334.56 | 3.205 | 38.704 | 41.90898 |
| 491929.78 | 3608349.84 | 1.732 | 20.913 | 22.64422 |
| 491879.97 | 3608317.02 | 2.116 | 25.551 | 27.66677 |
| 491893.22 | 3608305.33 | 1.537 | 18.561 | 20.09788 |
| 491889.89 | 3608289.35 | 1.137 | 13.738 | 14.87553 |
| 491907.21 | 3608277.37 | 0.870 | 10.505 | 11.37513 |
| 491909.87 | 3608246.74 | 0.498 | 6.011 | 6.50856 |
| 491914.53 | 3608232.76 | 0.391 | 4.716 | 5.10700 |
| 491920.52 | 3608219.44 | 0.315 | 3.802 | 4.11697 |
| 491923.85 | 3608203.46 | 0.243 | 2.940 | 3.18322 |
| 491922.52 | 3608187.48 | 0.186 | 2.252 | 2.43809 |
| 491933.84 | 3608176.16 | 0.164 | 1.987 | 2.15120 |
| 491936.5 | 3608332.63 | 1.474 | 17.798 | 19.27142 |
| 491945.82 | 3608306.66 | 1.088 | 13.143 | 14.23125 |
| 491948.49 | 3608292.02 | 0.912 | 11.011 | 11.92231 |
| 491954.48 | 3608266.71 | 0.649 | 7.836 | 8.48476 |
| 491965.8 | 3608249.4 | 0.504 | 6.082 | 6.58518 |
| 491959.81 | 3608230.76 | 0.394 | 4.760 | 5.15369 |
| 491973.12 | 3608219.44 | 0.337 | 4.072 | 4.40896 |
| 491965.13 | 3608198.8 | 0.253 | 3.052 | 3.30521 |
| 491987.11 | 3608190.14 | 0.232 | 2.801 | 3.03310 |
| 491975.79 | 3608366.59 | 1.124 | 13.574 | 14.69766 |
| 491980.45 | 3608353.27 | 1.064 | 12.853 | 13.91723 |
| 491988.44 | 3608337.29 | 0.955 | 11.538 | 12.49364 |
| 491991.77 | 3608319.32 | 0.861 | 10.395 | 11.25596 |
| 492001.09 | 3608294.68 | 0.693 | 8.374 | 9.06682 |
| 492006.41 | 3608282.03 | 0.612 | 7.390 | 8.00192 |
| 492013.07 | 3608266.05 | 0.520 | 6.275 | 6.79406 |
| 492013.07 | 3608251.4 | 0.454 | 5.487 | 5.94177 |
| 492028.39 | 3608241.41 | 0.395 | 4.774 | 5.16910 |
| 492019.07 | 3608222.77 | 0.336 | 4.060 | 4.39595 |
| 492045.7 | 3608210.78 | 0.286 | 3.451 | 3.73629 |
| 492031.05 | 3608385.23 | 0.708 | 8.554 | 9.26260 |

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|---|---|---|---|---|
| 492035.71 | 3608369.92 | 0.696 | 8.407 | 9.10286 |
| 492027.06 | 3608353.27 | 0.738 | 8.915 | 9.65308 |
| 492046.36 | 3608339.96 | 0.634 | 7.661 | 8.29495 |
| 492040.37 | 3608324.64 | 0.635 | 7.672 | 8.30689 |
| 492057.02 | 3608313.32 | 0.553 | 6.677 | 7.23025 |
| 492055.69 | 3608297.34 | 0.521 | 6.298 | 6.81959 |
| 492059.02 | 3608282.03 | 0.474 | 5.724 | 6.19750 |
| 492069.67 | 3608270.04 | 0.422 | 5.091 | 5.51224 |
| 492061.68 | 3608253.4 | 0.391 | 4.717 | 5.10792 |
| 492078.32 | 3608241.41 | 0.339 | 4.094 | 4.43292 |
| 492079.66 | 3608226.76 | 0.304 | 3.666 | 3.96980 |
| 492069.51 | 3608395.3 | 0.531 | 6.410 | 6.94052 |
| 492076.17 | 3608375.99 | 0.526 | 6.352 | 6.87804 |
| 492085.49 | 3608364.01 | 0.501 | 6.046 | 6.54668 |
| 492102.14 | 3608406.62 | 0.419 | 5.058 | 5.47733 |
| 492129.44 | 3608410.61 | 0.353 | 4.260 | 4.61267 |
| 492095.48 | 3608352.69 | 0.472 | 5.697 | 6.16909 |
| 492094.15 | 3608336.04 | 0.470 | 5.674 | 6.14411 |
| 492135.43 | 3608348.69 | 0.376 | 4.540 | 4.91581 |
| 492101.47 | 3608312.74 | 0.432 | 5.213 | 5.64445 |
| 492120.78 | 3608244.15 | 0.299 | 3.607 | 3.90522 |
| 492106.8 | 3608297.42 | 0.402 | 4.851 | 5.25296 |
| 492168.06 | 3608256.14 | 0.266 | 3.212 | 3.47820 |
| 491832.47 | 3608106.99 | 0.026 | 0.318 | 0.34437 |
| 491853.78 | 3608116.31 | 0.036 | 0.441 | 0.47702 |
| 491874.42 | 3608123.64 | 0.049 | 0.592 | 0.64077 |
| 491899.72 | 3608128.96 | 0.066 | 0.795 | 0.86091 |
| 491836.47 | 3608093.01 | 0.023 | 0.282 | 0.30564 |
| 491877.09 | 3608106.33 | 0.040 | 0.483 | 0.52278 |
| 491905.05 | 3608118.98 | 0.060 | 0.723 | 0.78270 |
| 491907.71 | 3608101.66 | 0.049 | 0.588 | 0.63649 |
| 491883.74 | 3608091.01 | 0.035 | 0.423 | 0.45847 |
| 491848.45 | 3608065.04 | 0.019 | 0.234 | 0.25359 |
| 491853.12 | 3608053.06 | 0.018 | 0.216 | 0.23424 |

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|---|---|---|---|---|
| 491873.09 | 3608063.05 | 0.023 | 0.283 | 0.30596 |
| 491909.71 | 3608072.37 | 0.035 | 0.419 | 0.45361 |
| 491921.03 | 3608059.05 | 0.032 | 0.392 | 0.42441 |
| 491925.69 | 3608040.41 | 0.027 | 0.332 | 0.35922 |
| 491856.44 | 3608031.75 | 0.015 | 0.182 | 0.19684 |
| 491867.1 | 3608010.44 | 0.014 | 0.163 | 0.17672 |
| 491875.09 | 3607976.49 | 0.011 | 0.131 | 0.14142 |
| 491918.37 | 3607991.8 | 0.016 | 0.198 | 0.21455 |
| 491945 | 3608000.46 | 0.021 | 0.254 | 0.27540 |
| 491935.09 | 3608141.53 | 0.099 | 1.201 | 1.30081 |
| 491960.9 | 3608152.59 | 0.131 | 1.586 | 1.71784 |
| 491988.54 | 3608164.57 | 0.168 | 2.026 | 2.19398 |
| 491946.15 | 3608114.81 | 0.074 | 0.891 | 0.96471 |
| 491988.54 | 3608129.55 | 0.108 | 1.306 | 1.41386 |
| 492018.04 | 3608107.44 | 0.092 | 1.110 | 1.20148 |
| 491955.37 | 3608089 | 0.056 | 0.680 | 0.73677 |
| 491963.66 | 3608059.51 | 0.042 | 0.508 | 0.54998 |
| 491984.86 | 3608059.51 | 0.047 | 0.568 | 0.61507 |
| 492031.86 | 3608066.89 | 0.062 | 0.750 | 0.81187 |
| 492020.8 | 3608040.16 | 0.045 | 0.548 | 0.59355 |
| 491977.49 | 3608027.26 | 0.033 | 0.393 | 0.42552 |
| 491983.94 | 3608007.9 | 0.028 | 0.338 | 0.36569 |
| 492044.76 | 3608018.04 | 0.040 | 0.488 | 0.52855 |
| 492048.45 | 3608001.45 | 0.035 | 0.426 | 0.46097 |
| 491999.6 | 3607989.47 | 0.026 | 0.309 | 0.33449 |
| 492038.31 | 3608171.95 | 0.194 | 2.344 | 2.53796 |
| 492047.53 | 3608155.36 | 0.164 | 1.978 | 2.14149 |
| 492086.23 | 3608187.61 | 0.219 | 2.642 | 2.86064 |
| 492095.45 | 3608171.03 | 0.188 | 2.272 | 2.45966 |
| 492053.98 | 3608123.1 | 0.118 | 1.426 | 1.54433 |
| 492109.27 | 3608145.22 | 0.150 | 1.809 | 1.95870 |
| 492058.59 | 3608100.06 | 0.094 | 1.137 | 1.23078 |
| 492123.1 | 3608113.89 | 0.115 | 1.388 | 1.50253 |
| 492135.08 | 3608094.53 | 0.098 | 1.187 | 1.28496 |

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| 492076.1 | 3608065.04 | 0.069 | 0.838 | 0.90734 |
| 492085.31 | 3608030.02 | 0.051 | 0.622 | 0.67342 |
| 492139.69 | 3608065.96 | 0.078 | 0.941 | 1.01876 |
| 492139.69 | 3608212.5 | 0.235 | 2.833 | 3.06746 |
| 492183.92 | 3608227.24 | 0.223 | 2.693 | 2.91615 |
| 492143.37 | 3608192.22 | 0.205 | 2.470 | 2.67490 |
| 492194.98 | 3608204.2 | 0.193 | 2.337 | 2.53032 |
| 492203.28 | 3608183.01 | 0.170 | 2.052 | 2.22192 |
| 492151.67 | 3608153.52 | 0.155 | 1.867 | 2.02155 |
| 492197.75 | 3608162.73 | 0.153 | 1.851 | 2.00414 |
| 492159.04 | 3608135.08 | 0.134 | 1.622 | 1.75682 |
| 492164.57 | 3608118.49 | 0.119 | 1.432 | 1.55049 |
| 492219.86 | 3608141.53 | 0.131 | 1.577 | 1.70707 |
| 492223.55 | 3608114.81 | 0.111 | 1.337 | 1.44722 |
| 492231.84 | 3608098.22 | 0.099 | 1.197 | 1.29654 |
| 492170.1 | 3608097.3 | 0.101 | 1.222 | 1.32341 |
| 492180.24 | 3608077.94 | 0.088 | 1.060 | 1.14727 |
| 492183.92 | 3608055.83 | 0.075 | 0.901 | 0.97542 |
| 492218.94 | 3608068.73 | 0.082 | 0.995 | 1.07716 |
| 492246.59 | 3608230.01 | 0.185 | 2.236 | 2.42118 |
| 492239.22 | 3608207.89 | 0.174 | 2.106 | 2.28034 |
| 492241.98 | 3608194.07 | 0.163 | 1.973 | 2.13582 |
| 492246.59 | 3608176.56 | 0.149 | 1.802 | 1.95172 |
| 492257.65 | 3608163.65 | 0.137 | 1.656 | 1.79275 |
| 492261.34 | 3608145.22 | 0.124 | 1.503 | 1.62699 |
| 492266.87 | 3608124.02 | 0.111 | 1.335 | 1.44603 |
| 492272.39 | 3608108.36 | 0.101 | 1.220 | 1.32057 |
| 492277.92 | 3608094.53 | 0.093 | 1.124 | 1.21736 |
| 492285.3 | 3608081.63 | 0.086 | 1.040 | 1.12623 |
| 491685.34 | 3608168.26 | 0.012 | 0.146 | 0.15761 |
| 491689.95 | 3608145.22 | 0.010 | 0.123 | 0.13355 |
| 491694.56 | 3608131.4 | 0.009 | 0.114 | 0.12313 |
| 491698.24 | 3608118.49 | 0.009 | 0.105 | 0.11406 |
| 491701.01 | 3608105.59 | 0.008 | 0.097 | 0.10540 |

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| 491703.77 | 3608093.61 | 0.008 | 0.091 | 0.09835 |
| 491707.46 | 3608079.79 | 0.007 | 0.084 | 0.09138 |
| 491713.91 | 3608070.57 | 0.007 | 0.083 | 0.08940 |
| 491715.75 | 3608058.59 | 0.006 | 0.077 | 0.08348 |
| 491720.36 | 3608046.61 | 0.006 | 0.073 | 0.07949 |
| 491732.34 | 3608014.36 | 0.005 | 0.065 | 0.07004 |
| 491735.11 | 3608002.37 | 0.005 | 0.061 | 0.06630 |
| 491735.11 | 3607991.32 | 0.005 | 0.057 | 0.06217 |
| 491744.32 | 3607980.26 | 0.005 | 0.057 | 0.06163 |
| 491747.09 | 3607967.35 | 0.004 | 0.054 | 0.05824 |
| 491755.38 | 3607954.45 | 0.004 | 0.053 | 0.05689 |
| 491759.07 | 3607939.71 | 0.004 | 0.050 | 0.05363 |
| 491636.5 | 3608156.28 | 0.008 | 0.101 | 0.10895 |
| 491618.06 | 3608148.91 | 0.007 | 0.088 | 0.09552 |
| 491598.71 | 3608143.38 | 0.007 | 0.079 | 0.08554 |
| 491579.36 | 3608134.16 | 0.006 | 0.070 | 0.07558 |
| 491565.53 | 3608132.32 | 0.005 | 0.066 | 0.07149 |
| 491548.94 | 3608123.1 | 0.005 | 0.060 | 0.06449 |
| 491654.01 | 3608119.42 | 0.007 | 0.083 | 0.09028 |
| 491663.22 | 3608133.24 | 0.008 | 0.096 | 0.10423 |
| 491657.69 | 3608106.51 | 0.006 | 0.078 | 0.08394 |
| 491663.22 | 3608094.53 | 0.006 | 0.073 | 0.07938 |
| 491674.28 | 3608094.53 | 0.006 | 0.077 | 0.08369 |
| 491681.65 | 3608086.24 | 0.006 | 0.076 | 0.08220 |
| 491686.26 | 3608072.42 | 0.006 | 0.071 | 0.07690 |
| 491663.22 | 3608078.87 | 0.005 | 0.066 | 0.07169 |
| 491671.52 | 3608072.42 | 0.005 | 0.066 | 0.07145 |
| 491676.12 | 3608058.59 | 0.005 | 0.062 | 0.06699 |
| 491678.89 | 3608048.45 | 0.005 | 0.059 | 0.06383 |
| 491690.87 | 3608053.98 | 0.005 | 0.065 | 0.07012 |
| 491695.48 | 3608035.55 | 0.005 | 0.059 | 0.06425 |
| 491701.93 | 3608024.49 | 0.005 | 0.058 | 0.06232 |
| 491624.52 | 3608121.26 | 0.006 | 0.075 | 0.08116 |
| 491615.3 | 3608116.65 | 0.006 | 0.070 | 0.07623 |

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| 491603.32 | 3608112.97 | 0.005 | 0.066 | 0.07162 |
| 491590.42 | 3608107.44 | 0.005 | 0.061 | 0.06659 |
| 491582.12 | 3608104.67 | 0.005 | 0.059 | 0.06397 |
| 491567.38 | 3608101.91 | 0.005 | 0.056 | 0.06048 |
| 491553.55 | 3608094.53 | 0.004 | 0.052 | 0.05601 |
| 491560 | 3608079.79 | 0.004 | 0.049 | 0.05259 |
| 491571.98 | 3608083.47 | 0.004 | 0.051 | 0.05522 |
| 491585.81 | 3608088.08 | 0.004 | 0.054 | 0.05870 |
| 491599.63 | 3608094.53 | 0.005 | 0.058 | 0.06330 |
| 491614.38 | 3608097.3 | 0.005 | 0.062 | 0.06727 |
| 491626.36 | 3608102.83 | 0.006 | 0.067 | 0.07245 |
| 491630.97 | 3608077.94 | 0.005 | 0.058 | 0.06301 |
| 491613.46 | 3608071.49 | 0.004 | 0.053 | 0.05746 |
| 491635.57 | 3608062.28 | 0.004 | 0.054 | 0.05826 |
| 491647.56 | 3608065.04 | 0.005 | 0.057 | 0.06177 |
| 491568.3 | 3608046.61 | 0.003 | 0.042 | 0.04495 |
| 491556.32 | 3608038.32 | 0.003 | 0.039 | 0.04208 |
| 491572.91 | 3608032.79 | 0.003 | 0.039 | 0.04225 |
| 491594.1 | 3608048.45 | 0.004 | 0.044 | 0.04801 |
| 491589.49 | 3608035.55 | 0.003 | 0.041 | 0.04435 |
| 491608.85 | 3608039.24 | 0.004 | 0.044 | 0.04733 |
| 491612.53 | 3608025.41 | 0.003 | 0.041 | 0.04435 |
| 491625.44 | 3608040.16 | 0.004 | 0.046 | 0.04975 |
| 491636.5 | 3608029.1 | 0.004 | 0.045 | 0.04840 |
| 491654.01 | 3608027.26 | 0.004 | 0.047 | 0.05087 |
| 491643.87 | 3608011.59 | 0.003 | 0.042 | 0.04512 |
| 491667.83 | 3608015.28 | 0.004 | 0.046 | 0.05029 |
| 491689.03 | 3607995 | 0.004 | 0.046 | 0.04956 |
| 491681.65 | 3607976.57 | 0.003 | 0.040 | 0.04359 |
| 491704.69 | 3607986.71 | 0.004 | 0.047 | 0.05124 |
| 491713.91 | 3607971.96 | 0.004 | 0.046 | 0.04972 |
| 491725.89 | 3607958.14 | 0.004 | 0.046 | 0.04929 |
| 491711.15 | 3607949.84 | 0.003 | 0.040 | 0.04383 |
| 491729.58 | 3607943.39 | 0.004 | 0.043 | 0.04661 |

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| 491714.83 | 3607935.1 | 0.003 | 0.038 | 0.04154 |
| 491724.97 | 3607923.12 | 0.003 | 0.038 | 0.04123 |
| 491737.87 | 3607928.65 | 0.003 | 0.042 | 0.04521 |
| 491735.11 | 3607910.22 | 0.003 | 0.038 | 0.04078 |
| 491558.16 | 3608010.67 | 0.003 | 0.034 | 0.03684 |
| 491579.36 | 3607998.69 | 0.003 | 0.033 | 0.03607 |
| 491595.95 | 3608003.3 | 0.003 | 0.035 | 0.03810 |
| 491613.46 | 3607995.92 | 0.003 | 0.035 | 0.03819 |
| 491599.63 | 3607983.94 | 0.003 | 0.032 | 0.03492 |
| 491623.59 | 3607979.33 | 0.003 | 0.033 | 0.03610 |
| 491640.18 | 3607983.02 | 0.003 | 0.036 | 0.03854 |
| 491660.46 | 3607968.28 | 0.003 | 0.035 | 0.03842 |
| 491659.54 | 3607951.69 | 0.003 | 0.033 | 0.03541 |
| 491677.05 | 3607950.77 | 0.003 | 0.035 | 0.03772 |
| 491682.58 | 3607937.86 | 0.003 | 0.034 | 0.03635 |
| 491670.6 | 3607928.65 | 0.003 | 0.031 | 0.03323 |
| 491694.56 | 3607921.27 | 0.003 | 0.033 | 0.03548 |
| 491682.58 | 3607913.9 | 0.002 | 0.030 | 0.03265 |
| 491682.58 | 3607901.92 | 0.002 | 0.029 | 0.03101 |
| 491705.62 | 3607902.84 | 0.003 | 0.032 | 0.03432 |
| 491561.62 | 3607964.09 | 0.002 | 0.028 | 0.02981 |
| 491578.12 | 3607959.66 | 0.002 | 0.028 | 0.02996 |
| 491573.42 | 3607943.99 | 0.002 | 0.026 | 0.02773 |
| 491600.84 | 3607959.66 | 0.002 | 0.029 | 0.03122 |
| 491591.44 | 3607944.77 | 0.002 | 0.026 | 0.02867 |
| 491603.97 | 3607934.59 | 0.002 | 0.026 | 0.02808 |
| 491615.72 | 3607947.91 | 0.002 | 0.028 | 0.03057 |
| 491636.09 | 3607933.02 | 0.002 | 0.028 | 0.03017 |
| 491625.12 | 3607917.35 | 0.002 | 0.025 | 0.02737 |
| 491644.71 | 3607918.92 | 0.002 | 0.027 | 0.02912 |
| 491642.36 | 3607896.99 | 0.002 | 0.024 | 0.02638 |
| 491658.03 | 3607905.6 | 0.002 | 0.027 | 0.02875 |
| 491665.08 | 3607887.59 | 0.002 | 0.025 | 0.02736 |
| 491647.06 | 3607883.67 | 0.002 | 0.023 | 0.02536 |

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| 491564.8 | 3607922.84 | 0.002 | 0.023 | 0.02502 |
| 491587.52 | 3607913.44 | 0.002 | 0.023 | 0.02487 |
| 491573.42 | 3607903.25 | 0.002 | 0.022 | 0.02333 |
| 491607.11 | 3607896.2 | 0.002 | 0.022 | 0.02404 |
| 491603.97 | 3607878.97 | 0.002 | 0.021 | 0.02229 |
| 491621.99 | 3607877.4 | 0.002 | 0.021 | 0.02307 |
| 491892.25 | 3607962.79 | 0.011 | 0.131 | 0.14232 |
| 491943.96 | 3607975.32 | 0.017 | 0.202 | 0.21848 |
| 491586.79 | 3608712.31 | 0.053 | 0.638 | 0.69120 |
| 491579.14 | 3608732.72 | 0.046 | 0.553 | 0.59930 |
| 491579.14 | 3608751.86 | 0.041 | 0.496 | 0.53694 |
| 491563.83 | 3608778.64 | 0.034 | 0.415 | 0.44925 |
| 491558.73 | 3608797.78 | 0.031 | 0.372 | 0.40319 |
| 491545.97 | 3608824.57 | 0.026 | 0.320 | 0.34621 |
| 491543.42 | 3608838.6 | 0.025 | 0.298 | 0.32293 |
| 491534.49 | 3608869.21 | 0.021 | 0.257 | 0.27801 |
| 491635.26 | 3608725.07 | 0.054 | 0.649 | 0.70321 |
| 491665.88 | 3608731.45 | 0.053 | 0.635 | 0.68714 |
| 491654.4 | 3608756.96 | 0.043 | 0.524 | 0.56760 |
| 491627.61 | 3608748.03 | 0.045 | 0.548 | 0.59378 |
| 491621.23 | 3608764.61 | 0.040 | 0.489 | 0.52923 |
| 491651.85 | 3608772.27 | 0.039 | 0.472 | 0.51076 |
| 491635.26 | 3608823.29 | 0.028 | 0.343 | 0.37130 |
| 491608.48 | 3608810.54 | 0.030 | 0.367 | 0.39743 |
| 491603.37 | 3608829.67 | 0.027 | 0.329 | 0.35643 |
| 491627.61 | 3608838.6 | 0.026 | 0.314 | 0.34052 |
| 491622.51 | 3608866.66 | 0.022 | 0.271 | 0.29298 |
| 491590.62 | 3608859.01 | 0.023 | 0.281 | 0.30420 |
| 491586.79 | 3608875.59 | 0.021 | 0.258 | 0.27984 |
| 491617.41 | 3608884.52 | 0.020 | 0.247 | 0.26771 |
| 491707.97 | 3608753.13 | 0.045 | 0.543 | 0.58790 |
| 491702.87 | 3608768.44 | 0.040 | 0.486 | 0.52571 |
| 491696.49 | 3608791.4 | 0.034 | 0.415 | 0.44946 |
| 491688.84 | 3608805.43 | 0.031 | 0.379 | 0.41084 |

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| 491683.74 | 3608834.77 | 0.026 | 0.318 | 0.34435 |
| 491674.81 | 3608851.36 | 0.024 | 0.290 | 0.31397 |
| 491669.71 | 3608874.32 | 0.021 | 0.257 | 0.27776 |
| 491667.15 | 3608903.66 | 0.018 | 0.221 | 0.23956 |
| 491741.14 | 3608758.23 | 0.044 | 0.530 | 0.57355 |
| 491733.49 | 3608772.27 | 0.039 | 0.477 | 0.51628 |
| 491727.11 | 3608797.78 | 0.033 | 0.400 | 0.43359 |
| 491720.73 | 3608809.26 | 0.031 | 0.371 | 0.40219 |
| 491711.8 | 3608833.5 | 0.027 | 0.320 | 0.34677 |
| 491706.7 | 3608855.18 | 0.023 | 0.283 | 0.30653 |
| 491701.6 | 3608871.77 | 0.021 | 0.259 | 0.28023 |
| 491699.05 | 3608899.83 | 0.019 | 0.224 | 0.24288 |
| 491778.13 | 3608770.99 | 0.041 | 0.500 | 0.54109 |
| 491773.03 | 3608791.4 | 0.036 | 0.433 | 0.46848 |
| 491762.83 | 3608811.81 | 0.031 | 0.376 | 0.40701 |
| 491760.28 | 3608828.39 | 0.028 | 0.339 | 0.36728 |
| 491755.17 | 3608851.36 | 0.025 | 0.296 | 0.32054 |
| 491747.52 | 3608869.21 | 0.022 | 0.267 | 0.28918 |
| 491738.59 | 3608884.52 | 0.020 | 0.245 | 0.26545 |
| 491738.59 | 3608902.38 | 0.019 | 0.224 | 0.24282 |
| 491804.92 | 3608781.2 | 0.040 | 0.480 | 0.51929 |
| 491802.37 | 3608806.71 | 0.034 | 0.405 | 0.43867 |
| 491789.61 | 3608822.02 | 0.030 | 0.363 | 0.39358 |
| 491788.34 | 3608839.87 | 0.027 | 0.327 | 0.35387 |
| 491774.31 | 3608853.91 | 0.025 | 0.297 | 0.32195 |
| 491778.13 | 3608875.59 | 0.022 | 0.266 | 0.28766 |
| 491773.03 | 3608892.17 | 0.020 | 0.243 | 0.26280 |
| 491770.48 | 3608916.41 | 0.018 | 0.215 | 0.23283 |
| 491848.29 | 3608793.95 | 0.038 | 0.455 | 0.49250 |
| 491845.74 | 3608815.64 | 0.033 | 0.398 | 0.43044 |
| 491835.54 | 3608834.77 | 0.029 | 0.353 | 0.38221 |
| 491829.16 | 3608859.01 | 0.025 | 0.307 | 0.33200 |
| 491824.06 | 3608874.32 | 0.023 | 0.281 | 0.30450 |
| 491824.06 | 3608890.9 | 0.021 | 0.258 | 0.27951 |

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| 491820.23 | 3608904.93 | 0.020 | 0.240 | 0.25966 |
| 491818.95 | 3608924.07 | 0.018 | 0.218 | 0.23647 |
| 491817.68 | 3608940.65 | 0.017 | 0.202 | 0.21866 |
| 491873.81 | 3608822.02 | 0.032 | 0.386 | 0.41802 |
| 491864.88 | 3608842.43 | 0.028 | 0.344 | 0.37194 |
| 491859.77 | 3608864.11 | 0.025 | 0.305 | 0.33007 |
| 491855.95 | 3608878.14 | 0.023 | 0.283 | 0.30609 |
| 491849.57 | 3608899.83 | 0.021 | 0.252 | 0.27317 |
| 491857.22 | 3608915.14 | 0.020 | 0.236 | 0.25505 |
| 491869.98 | 3608930.44 | 0.018 | 0.221 | 0.23945 |
| 491890.39 | 3608932.99 | 0.018 | 0.221 | 0.23912 |
| 491915.9 | 3608818.19 | 0.032 | 0.389 | 0.42102 |
| 491914.63 | 3608838.6 | 0.029 | 0.349 | 0.37778 |
| 491904.42 | 3608855.18 | 0.027 | 0.321 | 0.34805 |
| 491903.14 | 3608874.32 | 0.024 | 0.292 | 0.31610 |
| 491895.49 | 3608897.28 | 0.022 | 0.261 | 0.28261 |
| 491915.9 | 3608899.83 | 0.021 | 0.258 | 0.27920 |
| 491936.31 | 3608902.38 | 0.021 | 0.253 | 0.27431 |
| 491952.89 | 3608910.03 | 0.020 | 0.243 | 0.26290 |
| 491966.93 | 3608922.79 | 0.019 | 0.228 | 0.24672 |
| 491923.55 | 3608947.03 | 0.017 | 0.209 | 0.22625 |
| 491945.24 | 3608961.06 | 0.016 | 0.197 | 0.21292 |
| 491737.31 | 3608925.34 | 0.017 | 0.201 | 0.21752 |
| CONCUNIT ug | m^3 | 0.000 | 0.000 | 0.00000 |
| DEPUNIT g/m | 2 | 0.000 | 0.000 | 0.00000 |

## Moss Street

**Tier III mitigation**

**Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Child**
**UTM: (565046,4185977)**

| | | |
|---|---|---|
| **Cancer Potency Factor:** | 1.1 | $(mg/kg\text{-}day)^{-1}$ |
| **Exposure Frequency** | 350 | days/year |
| **Averaging Period** | 25550 | days |

| Year | DPM Concentration (ug/m3) | Age Sensitivty Factor | Daily Breathing Rate (L/kg-day) | Time At Home Factor | Exposure Duration (years) | Unit Risk Factor $(ug/m3)^{-1}$ |
|---|---|---|---|---|---|---|
| 2019 | 1 | 3 | 572 | 1 | 0.25 | 6.5 |
| 2020 | 1 | 3 | 572 | 1 | 1 | 25.9 |

Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines

## Moss Street

**Tier III mitigation** **at Sensitive Receptors**

**Estimated Cancer Risks from Construction DPM**

| X (m) | Y (m) | Child Cancer 2019 (/million) | Child Cancer 2020 (/million) | Total Cancer Risk (/million) |
|---|---|---|---|---|
| 491856.94 | 3608423.76 | 1.886 | 7.713 | 9.59898 |
| 491770.82 | 3608296.56 | 0.252 | 1.035 | 1.28647 |
| 491786.69 | 3608300.4 | 0.506 | 2.075 | 2.58090 |
| 491777.07 | 3608270.58 | 0.113 | 0.465 | 0.57803 |
| 491794.39 | 3608275.87 | 0.214 | 0.879 | 1.09316 |
| 491789.88 | 3608254.44 | 0.093 | 0.381 | 0.47430 |
| 491793.88 | 3608239.79 | 0.067 | 0.276 | 0.34384 |
| 491796.54 | 3608225.81 | 0.051 | 0.208 | 0.25874 |
| 491799.2 | 3608213.16 | 0.041 | 0.166 | 0.20706 |
| 491804.53 | 3608198.51 | 0.033 | 0.137 | 0.17002 |
| 491835.16 | 3608317.03 | 1.185 | 4.847 | 6.03141 |
| 491837.82 | 3608303.71 | 0.812 | 3.324 | 4.13594 |
| 491843.81 | 3608287.73 | 0.516 | 2.112 | 2.62787 |
| 491851.14 | 3608274.41 | 0.368 | 1.505 | 1.87269 |
| 491863.07 | 3608247.22 | 0.200 | 0.819 | 1.01852 |
| 491867.68 | 3608231.55 | 0.145 | 0.594 | 0.73962 |
| 491875.05 | 3608218.65 | 0.117 | 0.479 | 0.59629 |
| 491878.74 | 3608195.61 | 0.077 | 0.316 | 0.39258 |
| 491885.19 | 3608177.18 | 0.059 | 0.240 | 0.29854 |
| 491807.78 | 3608183.63 | 0.027 | 0.111 | 0.13754 |
| 491812.39 | 3608167.97 | 0.022 | 0.092 | 0.11407 |
| 491819.76 | 3608146.77 | 0.018 | 0.074 | 0.09188 |
| 491840.03 | 3608155.06 | 0.026 | 0.105 | 0.13107 |
| 491868.6 | 3608170.73 | 0.045 | 0.185 | 0.22965 |
| 491865.26 | 3608414.36 | 1.761 | 7.199 | 8.95921 |
| 491867.52 | 3608403.04 | 1.802 | 7.367 | 9.16822 |

| **Maximum Caner Risk** |
|---|
| 9.6 |
| **SDAQMD threshold of significance** |
| 10 |
| **Exceed thresholds?** |
| No |

| | | | | |
|---|---|---|---|---|
| 491872.05 | 3608392.29 | 1.766 | 7.222 | 8.98871 |
| 491874.88 | 3608377.58 | 1.784 | 7.294 | 9.07777 |
| 491886.76 | 3608431.91 | 1.161 | 4.747 | 5.90752 |
| 491890.73 | 3608422.29 | 1.165 | 4.764 | 5.92862 |
| 491896.39 | 3608409.84 | 1.152 | 4.712 | 5.86498 |
| 491900.35 | 3608397.38 | 1.154 | 4.718 | 5.87217 |
| 491903.74 | 3608384.93 | 1.149 | 4.700 | 5.84955 |
| 491912.8 | 3608444.92 | 0.770 | 3.147 | 3.91601 |
| 491917.89 | 3608432.47 | 0.787 | 3.216 | 4.00250 |
| 491921.29 | 3608418.89 | 0.815 | 3.331 | 4.14593 |
| 491926.95 | 3608408.14 | 0.803 | 3.283 | 4.08534 |
| 491930.91 | 3608396.25 | 0.802 | 3.279 | 4.08124 |
| 491950.72 | 3608425.12 | 0.581 | 2.377 | 2.95829 |
| 491954.11 | 3608416.06 | 0.587 | 2.401 | 2.98829 |
| 491959.21 | 3608404.74 | 0.585 | 2.390 | 2.97495 |
| 491984.11 | 3608467.56 | 0.329 | 1.345 | 1.67350 |
| 491987.5 | 3608453.98 | 0.353 | 1.445 | 1.79809 |
| 491993.16 | 3608442.66 | 0.363 | 1.484 | 1.84635 |
| 491998.26 | 3608432.47 | 0.369 | 1.507 | 1.87586 |
| 492002.22 | 3608421.15 | 0.377 | 1.542 | 1.91881 |
| 492012.41 | 3608475.49 | 0.250 | 1.021 | 1.27094 |
| 492015.24 | 3608463.6 | 0.267 | 1.093 | 1.36087 |
| 492020.9 | 3608451.15 | 0.279 | 1.140 | 1.41872 |
| 492024.29 | 3608441.53 | 0.288 | 1.177 | 1.46478 |
| 492028.25 | 3608428.51 | 0.299 | 1.223 | 1.52147 |
| 492037.31 | 3608486.24 | 0.194 | 0.794 | 0.98789 |
| 492042.4 | 3608472.09 | 0.209 | 0.855 | 1.06399 |
| 492046.36 | 3608461.34 | 0.219 | 0.896 | 1.11556 |
| 492050.89 | 3608450.58 | 0.227 | 0.930 | 1.15683 |
| 492055.42 | 3608440.4 | 0.233 | 0.954 | 1.18738 |
| 492065.61 | 3608493.6 | 0.154 | 0.632 | 0.78627 |
| 492069 | 3608481.15 | 0.166 | 0.680 | 0.84620 |
| 492075.23 | 3608469.26 | 0.174 | 0.711 | 0.88458 |
| 492078.06 | 3608457.38 | 0.184 | 0.752 | 0.93599 |

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|---|---|---|---|---|
| 492082.59 | 3608446.62 | 0.190 | 0.777 | 0.96691 |
| 491873.18 | 3608334.56 | 1.523 | 6.229 | 7.75266 |
| 491929.78 | 3608349.84 | 0.823 | 3.366 | 4.18886 |
| 491879.97 | 3608317.02 | 1.006 | 4.113 | 5.11839 |
| 491893.22 | 3608305.33 | 0.731 | 2.988 | 3.71829 |
| 491889.89 | 3608289.35 | 0.541 | 2.212 | 2.75237 |
| 491907.21 | 3608277.37 | 0.413 | 1.691 | 2.10475 |
| 491909.87 | 3608246.74 | 0.237 | 0.968 | 1.20447 |
| 491914.53 | 3608232.76 | 0.186 | 0.760 | 0.94515 |
| 491920.52 | 3608219.44 | 0.150 | 0.612 | 0.76195 |
| 491923.85 | 3608203.46 | 0.116 | 0.473 | 0.58917 |
| 491922.52 | 3608187.48 | 0.089 | 0.363 | 0.45129 |
| 491933.84 | 3608176.16 | 0.078 | 0.320 | 0.39818 |
| 491936.5 | 3608332.63 | 0.700 | 2.865 | 3.56504 |
| 491945.82 | 3608306.66 | 0.517 | 2.116 | 2.63281 |
| 491948.49 | 3608292.02 | 0.433 | 1.772 | 2.20573 |
| 491954.48 | 3608266.71 | 0.308 | 1.261 | 1.56987 |
| 491965.8 | 3608249.4 | 0.239 | 0.979 | 1.21845 |
| 491959.81 | 3608230.76 | 0.187 | 0.766 | 0.95366 |
| 491973.12 | 3608219.44 | 0.160 | 0.656 | 0.81585 |
| 491965.13 | 3608198.8 | 0.120 | 0.492 | 0.61166 |
| 491987.11 | 3608190.14 | 0.110 | 0.451 | 0.56129 |
| 491975.79 | 3608366.59 | 0.534 | 2.185 | 2.71885 |
| 491980.45 | 3608353.27 | 0.506 | 2.069 | 2.57452 |
| 491988.44 | 3608337.29 | 0.454 | 1.857 | 2.31121 |
| 491991.77 | 3608319.32 | 0.409 | 1.673 | 2.08231 |
| 492001.09 | 3608294.68 | 0.330 | 1.348 | 1.67739 |
| 492006.41 | 3608282.03 | 0.291 | 1.190 | 1.48042 |
| 492013.07 | 3608266.05 | 0.247 | 1.010 | 1.25699 |
| 492013.07 | 3608251.4 | 0.216 | 0.883 | 1.09934 |
| 492028.39 | 3608241.41 | 0.188 | 0.769 | 0.95639 |
| 492019.07 | 3608222.77 | 0.160 | 0.654 | 0.81338 |
| 492045.7 | 3608210.78 | 0.136 | 0.556 | 0.69132 |
| 492031.05 | 3608385.23 | 0.337 | 1.377 | 1.71344 |

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|---|---|---|---|---|
| 492035.71 | 3608369.92 | 0.331 | 1.353 | 1.68391 |
| 492027.06 | 3608353.27 | 0.351 | 1.435 | 1.78572 |
| 492046.36 | 3608339.96 | 0.302 | 1.233 | 1.53450 |
| 492040.37 | 3608324.64 | 0.302 | 1.235 | 1.53673 |
| 492057.02 | 3608313.32 | 0.263 | 1.075 | 1.33758 |
| 492055.69 | 3608297.34 | 0.248 | 1.014 | 1.26163 |
| 492059.02 | 3608282.03 | 0.225 | 0.921 | 1.14657 |
| 492069.67 | 3608270.04 | 0.200 | 0.819 | 1.01981 |
| 492061.68 | 3608253.4 | 0.186 | 0.759 | 0.94503 |
| 492078.32 | 3608241.41 | 0.161 | 0.659 | 0.82015 |
| 492079.66 | 3608226.76 | 0.144 | 0.590 | 0.73449 |
| 492069.51 | 3608395.3 | 0.252 | 1.032 | 1.28390 |
| 492076.17 | 3608375.99 | 0.250 | 1.022 | 1.27235 |
| 492085.49 | 3608364.01 | 0.238 | 0.973 | 1.21107 |
| 492102.14 | 3608406.62 | 0.199 | 0.814 | 1.01323 |
| 492129.44 | 3608410.61 | 0.168 | 0.686 | 0.85328 |
| 492095.48 | 3608352.69 | 0.224 | 0.917 | 1.14123 |
| 492094.15 | 3608336.04 | 0.223 | 0.913 | 1.13662 |
| 492135.43 | 3608348.69 | 0.179 | 0.731 | 0.90939 |
| 492101.47 | 3608312.74 | 0.205 | 0.839 | 1.04421 |
| 492120.78 | 3608244.15 | 0.142 | 0.581 | 0.72251 |
| 492106.8 | 3608297.42 | 0.191 | 0.781 | 0.97180 |
| 492168.06 | 3608256.14 | 0.126 | 0.517 | 0.64349 |
| 491832.47 | 3608106.99 | 0.013 | 0.051 | 0.06380 |
| 491853.78 | 3608116.31 | 0.017 | 0.071 | 0.08836 |
| 491874.42 | 3608123.64 | 0.023 | 0.095 | 0.11867 |
| 491899.72 | 3608128.96 | 0.031 | 0.128 | 0.15940 |
| 491836.47 | 3608093.01 | 0.011 | 0.046 | 0.05662 |
| 491877.09 | 3608106.33 | 0.019 | 0.078 | 0.09681 |
| 491905.05 | 3608118.98 | 0.028 | 0.116 | 0.14492 |
| 491907.71 | 3608101.66 | 0.023 | 0.095 | 0.11785 |
| 491883.74 | 3608091.01 | 0.017 | 0.068 | 0.08490 |
| 491848.45 | 3608065.04 | 0.009 | 0.038 | 0.04697 |
| 491853.12 | 3608053.06 | 0.009 | 0.035 | 0.04338 |

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| 491873.09 | 3608063.05 | 0.011 | 0.046 | 0.05666 |
| 491909.71 | 3608072.37 | 0.016 | 0.067 | 0.08398 |
| 491921.03 | 3608059.05 | 0.015 | 0.063 | 0.07857 |
| 491925.69 | 3608040.41 | 0.013 | 0.053 | 0.06650 |
| 491856.44 | 3608031.75 | 0.007 | 0.029 | 0.03645 |
| 491867.1 | 3608010.44 | 0.006 | 0.026 | 0.03272 |
| 491875.09 | 3607976.49 | 0.005 | 0.021 | 0.02618 |
| 491918.37 | 3607991.8 | 0.008 | 0.032 | 0.03972 |
| 491945 | 3608000.46 | 0.010 | 0.041 | 0.05098 |
| 491935.09 | 3608141.53 | 0.047 | 0.194 | 0.24080 |
| 491960.9 | 3608152.59 | 0.062 | 0.256 | 0.31795 |
| 491988.54 | 3608164.57 | 0.080 | 0.326 | 0.40603 |
| 491946.15 | 3608114.81 | 0.035 | 0.144 | 0.17858 |
| 491988.54 | 3608129.55 | 0.051 | 0.210 | 0.26168 |
| 492018.04 | 3608107.44 | 0.044 | 0.179 | 0.22236 |
| 491955.37 | 3608089 | 0.027 | 0.110 | 0.13638 |
| 491963.66 | 3608059.51 | 0.020 | 0.082 | 0.10181 |
| 491984.86 | 3608059.51 | 0.022 | 0.091 | 0.11385 |
| 492031.86 | 3608066.89 | 0.030 | 0.121 | 0.15026 |
| 492020.8 | 3608040.16 | 0.022 | 0.088 | 0.10986 |
| 491977.49 | 3608027.26 | 0.015 | 0.063 | 0.07877 |
| 491983.94 | 3608007.9 | 0.013 | 0.054 | 0.06769 |
| 492044.76 | 3608018.04 | 0.019 | 0.079 | 0.09782 |
| 492048.45 | 3608001.45 | 0.017 | 0.069 | 0.08532 |
| 491999.6 | 3607989.47 | 0.012 | 0.050 | 0.06191 |
| 492038.31 | 3608171.95 | 0.092 | 0.377 | 0.46964 |
| 492047.53 | 3608155.36 | 0.078 | 0.318 | 0.39628 |
| 492086.23 | 3608187.61 | 0.104 | 0.425 | 0.52930 |
| 492095.45 | 3608171.03 | 0.089 | 0.366 | 0.45512 |
| 492053.98 | 3608123.1 | 0.056 | 0.230 | 0.28579 |
| 492109.27 | 3608145.22 | 0.071 | 0.291 | 0.36243 |
| 492058.59 | 3608100.06 | 0.045 | 0.183 | 0.22777 |
| 492123.1 | 3608113.89 | 0.055 | 0.223 | 0.27803 |
| 492135.08 | 3608094.53 | 0.047 | 0.191 | 0.23777 |

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| 492076.1 | 3608065.04 | 0.033 | 0.135 | 0.16791 |
| 492085.31 | 3608030.02 | 0.024 | 0.100 | 0.12463 |
| 492139.69 | 3608065.96 | 0.037 | 0.151 | 0.18852 |
| 492139.69 | 3608212.5 | 0.111 | 0.456 | 0.56753 |
| 492183.92 | 3608227.24 | 0.106 | 0.434 | 0.53952 |
| 492143.37 | 3608192.22 | 0.097 | 0.398 | 0.49491 |
| 492194.98 | 3608204.2 | 0.092 | 0.376 | 0.46815 |
| 492203.28 | 3608183.01 | 0.081 | 0.330 | 0.41110 |
| 492151.67 | 3608153.52 | 0.073 | 0.301 | 0.37404 |
| 492197.75 | 3608162.73 | 0.073 | 0.298 | 0.37081 |
| 492159.04 | 3608135.08 | 0.064 | 0.261 | 0.32507 |
| 492164.57 | 3608118.49 | 0.056 | 0.231 | 0.28689 |
| 492219.86 | 3608141.53 | 0.062 | 0.254 | 0.31585 |
| 492223.55 | 3608114.81 | 0.053 | 0.215 | 0.26778 |
| 492231.84 | 3608098.22 | 0.047 | 0.193 | 0.23990 |
| 492170.1 | 3608097.3 | 0.048 | 0.197 | 0.24488 |
| 492180.24 | 3608077.94 | 0.042 | 0.171 | 0.21229 |
| 492183.92 | 3608055.83 | 0.035 | 0.145 | 0.18049 |
| 492218.94 | 3608068.73 | 0.039 | 0.160 | 0.19931 |
| 492246.59 | 3608230.01 | 0.088 | 0.360 | 0.44794 |
| 492239.22 | 3608207.89 | 0.083 | 0.339 | 0.42189 |
| 492241.98 | 3608194.07 | 0.078 | 0.318 | 0.39516 |
| 492246.59 | 3608176.56 | 0.071 | 0.290 | 0.36110 |
| 492257.65 | 3608163.65 | 0.065 | 0.267 | 0.33169 |
| 492261.34 | 3608145.22 | 0.059 | 0.242 | 0.30103 |
| 492266.87 | 3608124.02 | 0.053 | 0.215 | 0.26755 |
| 492272.39 | 3608108.36 | 0.048 | 0.196 | 0.24434 |
| 492277.92 | 3608094.53 | 0.044 | 0.181 | 0.22524 |
| 492285.3 | 3608081.63 | 0.041 | 0.167 | 0.20838 |
| 491685.34 | 3608168.26 | 0.006 | 0.024 | 0.02927 |
| 491689.95 | 3608145.22 | 0.005 | 0.020 | 0.02479 |
| 491694.56 | 3608131.4 | 0.004 | 0.018 | 0.02284 |
| 491698.24 | 3608118.49 | 0.004 | 0.017 | 0.02116 |
| 491701.01 | 3608105.59 | 0.004 | 0.016 | 0.01955 |

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| 491703.77 | 3608093.61 | 0.004 | 0.015 | 0.01824 |
| 491707.46 | 3608079.79 | 0.003 | 0.014 | 0.01694 |
| 491713.91 | 3608070.57 | 0.003 | 0.013 | 0.01657 |
| 491715.75 | 3608058.59 | 0.003 | 0.012 | 0.01547 |
| 491720.36 | 3608046.61 | 0.003 | 0.012 | 0.01473 |
| 491732.34 | 3608014.36 | 0.003 | 0.010 | 0.01298 |
| 491735.11 | 3608002.37 | 0.002 | 0.010 | 0.01228 |
| 491735.11 | 3607991.32 | 0.002 | 0.009 | 0.01152 |
| 491744.32 | 3607980.26 | 0.002 | 0.009 | 0.01142 |
| 491747.09 | 3607967.35 | 0.002 | 0.009 | 0.01079 |
| 491755.38 | 3607954.45 | 0.002 | 0.008 | 0.01054 |
| 491759.07 | 3607939.71 | 0.002 | 0.008 | 0.00993 |
| 491636.5 | 3608156.28 | 0.004 | 0.016 | 0.02023 |
| 491618.06 | 3608148.91 | 0.003 | 0.014 | 0.01773 |
| 491598.71 | 3608143.38 | 0.003 | 0.013 | 0.01587 |
| 491579.36 | 3608134.16 | 0.003 | 0.011 | 0.01402 |
| 491565.53 | 3608132.32 | 0.003 | 0.011 | 0.01326 |
| 491548.94 | 3608123.1 | 0.002 | 0.010 | 0.01196 |
| 491654.01 | 3608119.42 | 0.003 | 0.013 | 0.01675 |
| 491663.22 | 3608133.24 | 0.004 | 0.016 | 0.01934 |
| 491657.69 | 3608106.51 | 0.003 | 0.013 | 0.01557 |
| 491663.22 | 3608094.53 | 0.003 | 0.012 | 0.01472 |
| 491674.28 | 3608094.53 | 0.003 | 0.012 | 0.01552 |
| 491681.65 | 3608086.24 | 0.003 | 0.012 | 0.01524 |
| 491686.26 | 3608072.42 | 0.003 | 0.011 | 0.01426 |
| 491663.22 | 3608078.87 | 0.003 | 0.011 | 0.01329 |
| 491671.52 | 3608072.42 | 0.003 | 0.011 | 0.01325 |
| 491676.12 | 3608058.59 | 0.002 | 0.010 | 0.01242 |
| 491678.89 | 3608048.45 | 0.002 | 0.010 | 0.01183 |
| 491690.87 | 3608053.98 | 0.003 | 0.010 | 0.01300 |
| 491695.48 | 3608035.55 | 0.002 | 0.010 | 0.01191 |
| 491701.93 | 3608024.49 | 0.002 | 0.009 | 0.01155 |
| 491624.52 | 3608121.26 | 0.003 | 0.012 | 0.01506 |
| 491615.3 | 3608116.65 | 0.003 | 0.011 | 0.01414 |

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| 491603.32 | 3608112.97 | 0.003 | 0.011 | 0.01329 |
| 491590.42 | 3608107.44 | 0.002 | 0.010 | 0.01235 |
| 491582.12 | 3608104.67 | 0.002 | 0.010 | 0.01187 |
| 491567.38 | 3608101.91 | 0.002 | 0.009 | 0.01122 |
| 491553.55 | 3608094.53 | 0.002 | 0.008 | 0.01039 |
| 491560 | 3608079.79 | 0.002 | 0.008 | 0.00975 |
| 491571.98 | 3608083.47 | 0.002 | 0.008 | 0.01024 |
| 491585.81 | 3608088.08 | 0.002 | 0.009 | 0.01089 |
| 491599.63 | 3608094.53 | 0.002 | 0.009 | 0.01174 |
| 491614.38 | 3608097.3 | 0.002 | 0.010 | 0.01248 |
| 491626.36 | 3608102.83 | 0.003 | 0.011 | 0.01344 |
| 491630.97 | 3608077.94 | 0.002 | 0.009 | 0.01169 |
| 491613.46 | 3608071.49 | 0.002 | 0.009 | 0.01065 |
| 491635.57 | 3608062.28 | 0.002 | 0.009 | 0.01080 |
| 491647.56 | 3608065.04 | 0.002 | 0.009 | 0.01145 |
| 491568.3 | 3608046.61 | 0.002 | 0.007 | 0.00833 |
| 491556.32 | 3608038.32 | 0.002 | 0.006 | 0.00780 |
| 491572.91 | 3608032.79 | 0.002 | 0.006 | 0.00783 |
| 491594.1 | 3608048.45 | 0.002 | 0.007 | 0.00890 |
| 491589.49 | 3608035.55 | 0.002 | 0.007 | 0.00822 |
| 491608.85 | 3608039.24 | 0.002 | 0.007 | 0.00877 |
| 491612.53 | 3608025.41 | 0.002 | 0.007 | 0.00822 |
| 491625.44 | 3608040.16 | 0.002 | 0.007 | 0.00922 |
| 491636.5 | 3608029.1 | 0.002 | 0.007 | 0.00897 |
| 491654.01 | 3608027.26 | 0.002 | 0.008 | 0.00943 |
| 491643.87 | 3608011.59 | 0.002 | 0.007 | 0.00836 |
| 491667.83 | 3608015.28 | 0.002 | 0.007 | 0.00932 |
| 491689.03 | 3607995 | 0.002 | 0.007 | 0.00919 |
| 491681.65 | 3607976.57 | 0.002 | 0.006 | 0.00808 |
| 491704.69 | 3607986.71 | 0.002 | 0.008 | 0.00949 |
| 491713.91 | 3607971.96 | 0.002 | 0.007 | 0.00921 |
| 491725.89 | 3607958.14 | 0.002 | 0.007 | 0.00913 |
| 491711.15 | 3607949.84 | 0.002 | 0.007 | 0.00812 |
| 491729.58 | 3607943.39 | 0.002 | 0.007 | 0.00863 |

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| 491714.83 | 3607935.1 | 0.002 | 0.006 | 0.00770 |
| 491724.97 | 3607923.12 | 0.001 | 0.006 | 0.00764 |
| 491737.87 | 3607928.65 | 0.002 | 0.007 | 0.00837 |
| 491735.11 | 3607910.22 | 0.001 | 0.006 | 0.00755 |
| 491558.16 | 3608010.67 | 0.001 | 0.005 | 0.00683 |
| 491579.36 | 3607998.69 | 0.001 | 0.005 | 0.00669 |
| 491595.95 | 3608003.3 | 0.001 | 0.006 | 0.00706 |
| 491613.46 | 3607995.92 | 0.001 | 0.006 | 0.00708 |
| 491599.63 | 3607983.94 | 0.001 | 0.005 | 0.00647 |
| 491623.59 | 3607979.33 | 0.001 | 0.005 | 0.00669 |
| 491640.18 | 3607983.02 | 0.001 | 0.006 | 0.00714 |
| 491660.46 | 3607968.28 | 0.001 | 0.006 | 0.00712 |
| 491659.54 | 3607951.69 | 0.001 | 0.005 | 0.00656 |
| 491677.05 | 3607950.77 | 0.001 | 0.006 | 0.00699 |
| 491682.58 | 3607937.86 | 0.001 | 0.005 | 0.00673 |
| 491670.6 | 3607928.65 | 0.001 | 0.005 | 0.00616 |
| 491694.56 | 3607921.27 | 0.001 | 0.005 | 0.00657 |
| 491682.58 | 3607913.9 | 0.001 | 0.005 | 0.00605 |
| 491682.58 | 3607901.92 | 0.001 | 0.005 | 0.00575 |
| 491705.62 | 3607902.84 | 0.001 | 0.005 | 0.00636 |
| 491561.62 | 3607964.09 | 0.001 | 0.004 | 0.00552 |
| 491578.12 | 3607959.66 | 0.001 | 0.004 | 0.00555 |
| 491573.42 | 3607943.99 | 0.001 | 0.004 | 0.00514 |
| 491600.84 | 3607959.66 | 0.001 | 0.005 | 0.00579 |
| 491591.44 | 3607944.77 | 0.001 | 0.004 | 0.00531 |
| 491603.97 | 3607934.59 | 0.001 | 0.004 | 0.00520 |
| 491615.72 | 3607947.91 | 0.001 | 0.005 | 0.00567 |
| 491636.09 | 3607933.02 | 0.001 | 0.004 | 0.00559 |
| 491625.12 | 3607917.35 | 0.001 | 0.004 | 0.00507 |
| 491644.71 | 3607918.92 | 0.001 | 0.004 | 0.00540 |
| 491642.36 | 3607896.99 | 0.001 | 0.004 | 0.00489 |
| 491658.03 | 3607905.6 | 0.001 | 0.004 | 0.00533 |
| 491665.08 | 3607887.59 | 0.001 | 0.004 | 0.00507 |
| 491647.06 | 3607883.67 | 0.001 | 0.004 | 0.00470 |

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| 491564.8 | 3607922.84 | 0.001 | 0.004 | 0.00464 |
| 491587.52 | 3607913.44 | 0.001 | 0.004 | 0.00461 |
| 491573.42 | 3607903.25 | 0.001 | 0.003 | 0.00432 |
| 491607.11 | 3607896.2 | 0.001 | 0.004 | 0.00445 |
| 491603.97 | 3607878.97 | 0.001 | 0.003 | 0.00413 |
| 491621.99 | 3607877.4 | 0.001 | 0.003 | 0.00427 |
| 491892.25 | 3607962.79 | 0.005 | 0.021 | 0.02635 |
| 491943.96 | 3607975.32 | 0.008 | 0.033 | 0.04044 |
| 491586.79 | 3608712.31 | 0.025 | 0.103 | 0.12788 |
| 491579.14 | 3608732.72 | 0.022 | 0.089 | 0.11088 |
| 491579.14 | 3608751.86 | 0.020 | 0.080 | 0.09934 |
| 491563.83 | 3608778.64 | 0.016 | 0.067 | 0.08312 |
| 491558.73 | 3608797.78 | 0.015 | 0.060 | 0.07459 |
| 491545.97 | 3608824.57 | 0.013 | 0.051 | 0.06405 |
| 491543.42 | 3608838.6 | 0.012 | 0.048 | 0.05975 |
| 491534.49 | 3608869.21 | 0.010 | 0.041 | 0.05144 |
| 491635.26 | 3608725.07 | 0.026 | 0.105 | 0.13010 |
| 491665.88 | 3608731.45 | 0.025 | 0.102 | 0.12713 |
| 491654.4 | 3608756.96 | 0.021 | 0.084 | 0.10501 |
| 491627.61 | 3608748.03 | 0.022 | 0.088 | 0.10985 |
| 491621.23 | 3608764.61 | 0.019 | 0.079 | 0.09791 |
| 491651.85 | 3608772.27 | 0.019 | 0.076 | 0.09450 |
| 491635.26 | 3608823.29 | 0.013 | 0.055 | 0.06869 |
| 491608.48 | 3608810.54 | 0.014 | 0.059 | 0.07353 |
| 491603.37 | 3608829.67 | 0.013 | 0.053 | 0.06594 |
| 491627.61 | 3608838.6 | 0.012 | 0.051 | 0.06300 |
| 491622.51 | 3608866.66 | 0.011 | 0.044 | 0.05420 |
| 491590.62 | 3608859.01 | 0.011 | 0.045 | 0.05628 |
| 491586.79 | 3608875.59 | 0.010 | 0.042 | 0.05177 |
| 491617.41 | 3608884.52 | 0.010 | 0.040 | 0.04953 |
| 491707.97 | 3608753.13 | 0.021 | 0.087 | 0.10877 |
| 491702.87 | 3608768.44 | 0.019 | 0.078 | 0.09726 |
| 491696.49 | 3608791.4 | 0.016 | 0.067 | 0.08315 |
| 491688.84 | 3608805.43 | 0.015 | 0.061 | 0.07601 |

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|---|---|---|---|---|
| 491683.74 | 3608834.77 | 0.013 | 0.051 | 0.06371 |
| 491674.81 | 3608851.36 | 0.011 | 0.047 | 0.05809 |
| 491669.71 | 3608874.32 | 0.010 | 0.041 | 0.05139 |
| 491667.15 | 3608903.66 | 0.009 | 0.036 | 0.04432 |
| 491741.14 | 3608758.23 | 0.021 | 0.085 | 0.10611 |
| 491733.49 | 3608772.27 | 0.019 | 0.077 | 0.09552 |
| 491727.11 | 3608797.78 | 0.016 | 0.064 | 0.08022 |
| 491720.73 | 3608809.26 | 0.015 | 0.060 | 0.07441 |
| 491711.8 | 3608833.5 | 0.013 | 0.052 | 0.06416 |
| 491706.7 | 3608855.18 | 0.011 | 0.046 | 0.05671 |
| 491701.6 | 3608871.77 | 0.010 | 0.042 | 0.05185 |
| 491699.05 | 3608899.83 | 0.009 | 0.036 | 0.04494 |
| 491778.13 | 3608770.99 | 0.020 | 0.080 | 0.10011 |
| 491773.03 | 3608791.4 | 0.017 | 0.070 | 0.08667 |
| 491762.83 | 3608811.81 | 0.015 | 0.061 | 0.07530 |
| 491760.28 | 3608828.39 | 0.013 | 0.055 | 0.06795 |
| 491755.17 | 3608851.36 | 0.012 | 0.048 | 0.05931 |
| 491747.52 | 3608869.21 | 0.011 | 0.043 | 0.05350 |
| 491738.59 | 3608884.52 | 0.010 | 0.039 | 0.04911 |
| 491738.59 | 3608902.38 | 0.009 | 0.036 | 0.04493 |
| 491804.92 | 3608781.2 | 0.019 | 0.077 | 0.09607 |
| 491802.37 | 3608806.71 | 0.016 | 0.065 | 0.08116 |
| 491789.61 | 3608822.02 | 0.014 | 0.059 | 0.07282 |
| 491788.34 | 3608839.87 | 0.013 | 0.053 | 0.06547 |
| 491774.31 | 3608853.91 | 0.012 | 0.048 | 0.05956 |
| 491778.13 | 3608875.59 | 0.010 | 0.043 | 0.05322 |
| 491773.03 | 3608892.17 | 0.010 | 0.039 | 0.04862 |
| 491770.48 | 3608916.41 | 0.008 | 0.035 | 0.04308 |
| 491848.29 | 3608793.95 | 0.018 | 0.073 | 0.09112 |
| 491845.74 | 3608815.64 | 0.016 | 0.064 | 0.07963 |
| 491835.54 | 3608834.77 | 0.014 | 0.057 | 0.07071 |
| 491829.16 | 3608859.01 | 0.012 | 0.049 | 0.06142 |
| 491824.06 | 3608874.32 | 0.011 | 0.045 | 0.05634 |
| 491824.06 | 3608890.9 | 0.010 | 0.042 | 0.05171 |

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|---|---|---|---|---|
| 491820.23 | 3608904.93 | 0.009 | 0.039 | 0.04804 |
| 491818.95 | 3608924.07 | 0.009 | 0.035 | 0.04375 |
| 491817.68 | 3608940.65 | 0.008 | 0.033 | 0.04046 |
| 491873.81 | 3608822.02 | 0.015 | 0.062 | 0.07734 |
| 491864.88 | 3608842.43 | 0.014 | 0.055 | 0.06881 |
| 491859.77 | 3608864.11 | 0.012 | 0.049 | 0.06107 |
| 491855.95 | 3608878.14 | 0.011 | 0.046 | 0.05663 |
| 491849.57 | 3608899.83 | 0.010 | 0.041 | 0.05054 |
| 491857.22 | 3608915.14 | 0.009 | 0.038 | 0.04719 |
| 491869.98 | 3608930.44 | 0.009 | 0.036 | 0.04430 |
| 491890.39 | 3608932.99 | 0.009 | 0.036 | 0.04424 |
| 491915.9 | 3608818.19 | 0.015 | 0.063 | 0.07789 |
| 491914.63 | 3608838.6 | 0.014 | 0.056 | 0.06989 |
| 491904.42 | 3608855.18 | 0.013 | 0.052 | 0.06439 |
| 491903.14 | 3608874.32 | 0.011 | 0.047 | 0.05848 |
| 491895.49 | 3608897.28 | 0.010 | 0.042 | 0.05229 |
| 491915.9 | 3608899.83 | 0.010 | 0.042 | 0.05165 |
| 491936.31 | 3608902.38 | 0.010 | 0.041 | 0.05075 |
| 491952.89 | 3608910.03 | 0.010 | 0.039 | 0.04864 |
| 491966.93 | 3608922.79 | 0.009 | 0.037 | 0.04564 |
| 491923.55 | 3608947.03 | 0.008 | 0.034 | 0.04186 |
| 491945.24 | 3608961.06 | 0.008 | 0.032 | 0.03939 |
| 491737.31 | 3608925.34 | 0.008 | 0.032 | 0.04025 |
| CONCUNIT ug | m^3 | 0.000 | 0.000 | 0.00000 |
| DEPUNIT g/m | 2 | 0.000 | 0.000 | 0.00000 |

## Moss Street

**Tier III mitigation**

**Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Adult**

| | | |
|---|---|---|
| **Cancer Potency Factor:** | 1.1 | $(mg/kg\text{-}day)^{-1}$ |
| **Exposure Frequency** | 350 | days/year |
| **Averaging Period** | 25550 | days |

| Year | DPM Concentration (ug/m3) | Age Sensitivty Factor | Daily Breathing Rate (L/kg-day) | Time At Home Factor | Exposure Duration (years) | Unit Risk Factor $(ug/m3)^{-1}$ |
|---|---|---|---|---|---|---|
| 2019 | 1 | 1 | 261 | 1 | 0.25 | 1.0 |
| 2020 | 1 | 1 | 261 | 1 | 1 | 3.9 |

Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines

**Moss Street** **Tier III mitigation** **at Sensitive Receptors**

**Estimated Cancer Risks from Construction DPM**

| X (m) | Y (m) | Adult Cancer 2019 (/million) | Adult Cancer 2020 (/million) | Total Cancer Risk (/million) |
|---|---|---|---|---|
| 491856.94 | 3608423.76 | 0.287 | 1.173 | 1.45998 |
| 491770.82 | 3608296.56 | 0.038 | 0.157 | 0.19567 |
| 491786.69 | 3608300.4 | 0.077 | 0.316 | 0.39255 |
| 491777.07 | 3608270.58 | 0.017 | 0.071 | 0.08792 |
| 491794.39 | 3608275.87 | 0.033 | 0.134 | 0.16627 |
| 491789.88 | 3608254.44 | 0.014 | 0.058 | 0.07214 |
| 491793.88 | 3608239.79 | 0.010 | 0.042 | 0.05230 |
| 491796.54 | 3608225.81 | 0.008 | 0.032 | 0.03935 |
| 491799.2 | 3608213.16 | 0.006 | 0.025 | 0.03149 |
| 491804.53 | 3608198.51 | 0.005 | 0.021 | 0.02586 |
| 491835.16 | 3608317.03 | 0.180 | 0.737 | 0.91736 |
| 491837.82 | 3608303.71 | 0.124 | 0.506 | 0.62907 |
| 491843.81 | 3608287.73 | 0.078 | 0.321 | 0.39969 |
| 491851.14 | 3608274.41 | 0.056 | 0.229 | 0.28483 |
| 491863.07 | 3608247.22 | 0.030 | 0.124 | 0.15491 |
| 491867.68 | 3608231.55 | 0.022 | 0.090 | 0.11249 |
| 491875.05 | 3608218.65 | 0.018 | 0.073 | 0.09069 |
| 491878.74 | 3608195.61 | 0.012 | 0.048 | 0.05971 |
| 491885.19 | 3608177.18 | 0.009 | 0.036 | 0.04541 |
| 491807.78 | 3608183.63 | 0.004 | 0.017 | 0.02092 |
| 491812.39 | 3608167.97 | 0.003 | 0.014 | 0.01735 |
| 491819.76 | 3608146.77 | 0.003 | 0.011 | 0.01398 |
| 491840.03 | 3608155.06 | 0.004 | 0.016 | 0.01994 |
| 491868.6 | 3608170.73 | 0.007 | 0.028 | 0.03493 |
| 491865.26 | 3608414.36 | 0.268 | 1.095 | 1.36268 |
| 491867.52 | 3608403.04 | 0.274 | 1.120 | 1.39447 |
| 491872.05 | 3608392.29 | 0.269 | 1.099 | 1.36716 |
| 491874.88 | 3608377.58 | 0.271 | 1.109 | 1.38071 |
| 491886.76 | 3608431.91 | 0.177 | 0.722 | 0.89852 |
| 491890.73 | 3608422.29 | 0.177 | 0.725 | 0.90173 |
| 491896.39 | 3608409.84 | 0.175 | 0.717 | 0.89205 |
| 491900.35 | 3608397.38 | 0.176 | 0.718 | 0.89314 |
| 491903.74 | 3608384.93 | 0.175 | 0.715 | 0.88970 |
| 491912.8 | 3608444.92 | 0.117 | 0.479 | 0.59562 |
| 491917.89 | 3608432.47 | 0.120 | 0.489 | 0.60877 |
| 491921.29 | 3608418.89 | 0.124 | 0.507 | 0.63059 |

| Maximum Caner Risk |
|---|
| 1.5 |
| **SDAQMD threshold of significance** |
| 10 |
| **Exceed thresholds?** |
| No |

| | | | | |
|---|---|---|---|---|
| 491926.95 | 3608408.14 | 0.122 | 0.499 | 0.62137 |
| 491930.91 | 3608396.25 | 0.122 | 0.499 | 0.62075 |
| 491950.72 | 3608425.12 | 0.088 | 0.362 | 0.44995 |
| 491954.11 | 3608416.06 | 0.089 | 0.365 | 0.45451 |
| 491959.21 | 3608404.74 | 0.089 | 0.364 | 0.45248 |
| 491984.11 | 3608467.56 | 0.050 | 0.205 | 0.25454 |
| 491987.5 | 3608453.98 | 0.054 | 0.220 | 0.27349 |
| 491993.16 | 3608442.66 | 0.055 | 0.226 | 0.28083 |
| 491998.26 | 3608432.47 | 0.056 | 0.229 | 0.28531 |
| 492002.22 | 3608421.15 | 0.057 | 0.235 | 0.29185 |
| 492012.41 | 3608475.49 | 0.038 | 0.155 | 0.19331 |
| 492015.24 | 3608463.6 | 0.041 | 0.166 | 0.20699 |
| 492020.9 | 3608451.15 | 0.042 | 0.173 | 0.21578 |
| 492024.29 | 3608441.53 | 0.044 | 0.179 | 0.22279 |
| 492028.25 | 3608428.51 | 0.045 | 0.186 | 0.23141 |
| 492037.31 | 3608486.24 | 0.030 | 0.121 | 0.15026 |
| 492042.4 | 3608472.09 | 0.032 | 0.130 | 0.16183 |
| 492046.36 | 3608461.34 | 0.033 | 0.136 | 0.16967 |
| 492050.89 | 3608450.58 | 0.035 | 0.141 | 0.17595 |
| 492055.42 | 3608440.4 | 0.035 | 0.145 | 0.18060 |
| 492065.61 | 3608493.6 | 0.023 | 0.096 | 0.11959 |
| 492069 | 3608481.15 | 0.025 | 0.103 | 0.12870 |
| 492075.23 | 3608469.26 | 0.026 | 0.108 | 0.13454 |
| 492078.06 | 3608457.38 | 0.028 | 0.114 | 0.14236 |
| 492082.59 | 3608446.62 | 0.029 | 0.118 | 0.14707 |
| 491873.18 | 3608334.56 | 0.232 | 0.947 | 1.17916 |
| 491929.78 | 3608349.84 | 0.125 | 0.512 | 0.63712 |
| 491879.97 | 3608317.02 | 0.153 | 0.626 | 0.77850 |
| 491893.22 | 3608305.33 | 0.111 | 0.454 | 0.56554 |
| 491889.89 | 3608289.35 | 0.082 | 0.336 | 0.41863 |
| 491907.21 | 3608277.37 | 0.063 | 0.257 | 0.32013 |
| 491909.87 | 3608246.74 | 0.036 | 0.147 | 0.18320 |
| 491914.53 | 3608232.76 | 0.028 | 0.116 | 0.14375 |
| 491920.52 | 3608219.44 | 0.023 | 0.093 | 0.11589 |
| 491923.85 | 3608203.46 | 0.018 | 0.072 | 0.08961 |
| 491922.52 | 3608187.48 | 0.013 | 0.055 | 0.06864 |
| 491933.84 | 3608176.16 | 0.012 | 0.049 | 0.06056 |
| 491936.5 | 3608332.63 | 0.107 | 0.436 | 0.54224 |
| 491945.82 | 3608306.66 | 0.079 | 0.322 | 0.40044 |
| 491948.49 | 3608292.02 | 0.066 | 0.270 | 0.33549 |
| 491954.48 | 3608266.71 | 0.047 | 0.192 | 0.23877 |
| 491965.8 | 3608249.4 | 0.036 | 0.149 | 0.18532 |
| 491959.81 | 3608230.76 | 0.028 | 0.117 | 0.14505 |
| 491973.12 | 3608219.44 | 0.024 | 0.100 | 0.12409 |

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|---|---|---|---|---|
| 491965.13 | 3608198.8 | 0.018 | 0.075 | 0.09303 |
| 491987.11 | 3608190.14 | 0.017 | 0.069 | 0.08537 |
| 491975.79 | 3608366.59 | 0.081 | 0.332 | 0.41353 |
| 491980.45 | 3608353.27 | 0.077 | 0.315 | 0.39158 |
| 491988.44 | 3608337.29 | 0.069 | 0.282 | 0.35153 |
| 491991.77 | 3608319.32 | 0.062 | 0.254 | 0.31671 |
| 492001.09 | 3608294.68 | 0.050 | 0.205 | 0.25513 |
| 492006.41 | 3608282.03 | 0.044 | 0.181 | 0.22517 |
| 492013.07 | 3608266.05 | 0.038 | 0.154 | 0.19119 |
| 492013.07 | 3608251.4 | 0.033 | 0.134 | 0.16721 |
| 492028.39 | 3608241.41 | 0.029 | 0.117 | 0.14546 |
| 492019.07 | 3608222.77 | 0.024 | 0.099 | 0.12371 |
| 492045.7 | 3608210.78 | 0.021 | 0.084 | 0.10515 |
| 492031.05 | 3608385.23 | 0.051 | 0.209 | 0.26061 |
| 492035.71 | 3608369.92 | 0.050 | 0.206 | 0.25612 |
| 492027.06 | 3608353.27 | 0.053 | 0.218 | 0.27160 |
| 492046.36 | 3608339.96 | 0.046 | 0.188 | 0.23339 |
| 492040.37 | 3608324.64 | 0.046 | 0.188 | 0.23373 |
| 492057.02 | 3608313.32 | 0.040 | 0.163 | 0.20344 |
| 492055.69 | 3608297.34 | 0.038 | 0.154 | 0.19189 |
| 492059.02 | 3608282.03 | 0.034 | 0.140 | 0.17439 |
| 492069.67 | 3608270.04 | 0.030 | 0.125 | 0.15511 |
| 492061.68 | 3608253.4 | 0.028 | 0.115 | 0.14374 |
| 492078.32 | 3608241.41 | 0.025 | 0.100 | 0.12474 |
| 492079.66 | 3608226.76 | 0.022 | 0.090 | 0.11171 |
| 492069.51 | 3608395.3 | 0.038 | 0.157 | 0.19528 |
| 492076.17 | 3608375.99 | 0.038 | 0.155 | 0.19352 |
| 492085.49 | 3608364.01 | 0.036 | 0.148 | 0.18420 |
| 492102.14 | 3608406.62 | 0.030 | 0.124 | 0.15411 |
| 492129.44 | 3608410.61 | 0.026 | 0.104 | 0.12978 |
| 492095.48 | 3608352.69 | 0.034 | 0.139 | 0.17358 |
| 492094.15 | 3608336.04 | 0.034 | 0.139 | 0.17288 |
| 492135.43 | 3608348.69 | 0.027 | 0.111 | 0.13832 |
| 492101.47 | 3608312.74 | 0.031 | 0.128 | 0.15882 |
| 492120.78 | 3608244.15 | 0.022 | 0.088 | 0.10989 |
| 492106.8 | 3608297.42 | 0.029 | 0.119 | 0.14781 |
| 492168.06 | 3608256.14 | 0.019 | 0.079 | 0.09787 |
| 491832.47 | 3608106.99 | 0.002 | 0.008 | 0.00970 |
| 491853.78 | 3608116.31 | 0.003 | 0.011 | 0.01344 |
| 491874.42 | 3608123.64 | 0.004 | 0.015 | 0.01805 |
| 491899.72 | 3608128.96 | 0.005 | 0.019 | 0.02424 |
| 491836.47 | 3608093.01 | 0.002 | 0.007 | 0.00861 |
| 491877.09 | 3608106.33 | 0.003 | 0.012 | 0.01472 |
| 491905.05 | 3608118.98 | 0.004 | 0.018 | 0.02204 |

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|---|---|---|---|---|
| 491907.71 | 3608101.66 | 0.004 | 0.014 | 0.01792 |
| 491883.74 | 3608091.01 | 0.003 | 0.010 | 0.01291 |
| 491848.45 | 3608065.04 | 0.001 | 0.006 | 0.00714 |
| 491853.12 | 3608053.06 | 0.001 | 0.005 | 0.00660 |
| 491873.09 | 3608063.05 | 0.002 | 0.007 | 0.00862 |
| 491909.71 | 3608072.37 | 0.003 | 0.010 | 0.01277 |
| 491921.03 | 3608059.05 | 0.002 | 0.010 | 0.01195 |
| 491925.69 | 3608040.41 | 0.002 | 0.008 | 0.01011 |
| 491856.44 | 3608031.75 | 0.001 | 0.004 | 0.00554 |
| 491867.1 | 3608010.44 | 0.001 | 0.004 | 0.00498 |
| 491875.09 | 3607976.49 | 0.001 | 0.003 | 0.00398 |
| 491918.37 | 3607991.8 | 0.001 | 0.005 | 0.00604 |
| 491945 | 3608000.46 | 0.002 | 0.006 | 0.00775 |
| 491935.09 | 3608141.53 | 0.007 | 0.029 | 0.03662 |
| 491960.9 | 3608152.59 | 0.009 | 0.039 | 0.04836 |
| 491988.54 | 3608164.57 | 0.012 | 0.050 | 0.06176 |
| 491946.15 | 3608114.81 | 0.005 | 0.022 | 0.02716 |
| 491988.54 | 3608129.55 | 0.008 | 0.032 | 0.03980 |
| 492018.04 | 3608107.44 | 0.007 | 0.027 | 0.03382 |
| 491955.37 | 3608089 | 0.004 | 0.017 | 0.02074 |
| 491963.66 | 3608059.51 | 0.003 | 0.012 | 0.01548 |
| 491984.86 | 3608059.51 | 0.003 | 0.014 | 0.01732 |
| 492031.86 | 3608066.89 | 0.004 | 0.018 | 0.02285 |
| 492020.8 | 3608040.16 | 0.003 | 0.013 | 0.01671 |
| 491977.49 | 3608027.26 | 0.002 | 0.010 | 0.01198 |
| 491983.94 | 3608007.9 | 0.002 | 0.008 | 0.01030 |
| 492044.76 | 3608018.04 | 0.003 | 0.012 | 0.01488 |
| 492048.45 | 3608001.45 | 0.003 | 0.010 | 0.01298 |
| 491999.6 | 3607989.47 | 0.002 | 0.008 | 0.00942 |
| 492038.31 | 3608171.95 | 0.014 | 0.057 | 0.07143 |
| 492047.53 | 3608155.36 | 0.012 | 0.048 | 0.06027 |
| 492086.23 | 3608187.61 | 0.016 | 0.065 | 0.08051 |
| 492095.45 | 3608171.03 | 0.014 | 0.056 | 0.06922 |
| 492053.98 | 3608123.1 | 0.009 | 0.035 | 0.04347 |
| 492109.27 | 3608145.22 | 0.011 | 0.044 | 0.05513 |
| 492058.59 | 3608100.06 | 0.007 | 0.028 | 0.03464 |
| 492123.1 | 3608113.89 | 0.008 | 0.034 | 0.04229 |
| 492135.08 | 3608094.53 | 0.007 | 0.029 | 0.03616 |
| 492076.1 | 3608065.04 | 0.005 | 0.021 | 0.02554 |
| 492085.31 | 3608030.02 | 0.004 | 0.015 | 0.01896 |
| 492139.69 | 3608065.96 | 0.006 | 0.023 | 0.02867 |
| 492139.69 | 3608212.5 | 0.017 | 0.069 | 0.08632 |
| 492183.92 | 3608227.24 | 0.016 | 0.066 | 0.08206 |
| 492143.37 | 3608192.22 | 0.015 | 0.060 | 0.07528 |

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|---|---|---|---|---|
| 492194.98 | 3608204.2 | 0.014 | 0.057 | 0.07120 |
| 492203.28 | 3608183.01 | 0.012 | 0.050 | 0.06253 |
| 492151.67 | 3608153.52 | 0.011 | 0.046 | 0.05689 |
| 492197.75 | 3608162.73 | 0.011 | 0.045 | 0.05640 |
| 492159.04 | 3608135.08 | 0.010 | 0.040 | 0.04944 |
| 492164.57 | 3608118.49 | 0.009 | 0.035 | 0.04364 |
| 492219.86 | 3608141.53 | 0.009 | 0.039 | 0.04804 |
| 492223.55 | 3608114.81 | 0.008 | 0.033 | 0.04073 |
| 492231.84 | 3608098.22 | 0.007 | 0.029 | 0.03649 |
| 492170.1 | 3608097.3 | 0.007 | 0.030 | 0.03725 |
| 492180.24 | 3608077.94 | 0.006 | 0.026 | 0.03229 |
| 492183.92 | 3608055.83 | 0.005 | 0.022 | 0.02745 |
| 492218.94 | 3608068.73 | 0.006 | 0.024 | 0.03032 |
| 492246.59 | 3608230.01 | 0.013 | 0.055 | 0.06813 |
| 492239.22 | 3608207.89 | 0.013 | 0.052 | 0.06417 |
| 492241.98 | 3608194.07 | 0.012 | 0.048 | 0.06010 |
| 492246.59 | 3608176.56 | 0.011 | 0.044 | 0.05492 |
| 492257.65 | 3608163.65 | 0.010 | 0.041 | 0.05045 |
| 492261.34 | 3608145.22 | 0.009 | 0.037 | 0.04579 |
| 492266.87 | 3608124.02 | 0.008 | 0.033 | 0.04069 |
| 492272.39 | 3608108.36 | 0.007 | 0.030 | 0.03716 |
| 492277.92 | 3608094.53 | 0.007 | 0.028 | 0.03426 |
| 492285.3 | 3608081.63 | 0.006 | 0.025 | 0.03169 |
| 491685.34 | 3608168.26 | 0.001 | 0.004 | 0.00445 |
| 491689.95 | 3608145.22 | 0.001 | 0.003 | 0.00377 |
| 491694.56 | 3608131.4 | 0.001 | 0.003 | 0.00347 |
| 491698.24 | 3608118.49 | 0.001 | 0.003 | 0.00322 |
| 491701.01 | 3608105.59 | 0.001 | 0.002 | 0.00297 |
| 491703.77 | 3608093.61 | 0.001 | 0.002 | 0.00277 |
| 491707.46 | 3608079.79 | 0.001 | 0.002 | 0.00258 |
| 491713.91 | 3608070.57 | 0.000 | 0.002 | 0.00252 |
| 491715.75 | 3608058.59 | 0.000 | 0.002 | 0.00235 |
| 491720.36 | 3608046.61 | 0.000 | 0.002 | 0.00224 |
| 491732.34 | 3608014.36 | 0.000 | 0.002 | 0.00197 |
| 491735.11 | 3608002.37 | 0.000 | 0.002 | 0.00187 |
| 491735.11 | 3607991.32 | 0.000 | 0.001 | 0.00175 |
| 491744.32 | 3607980.26 | 0.000 | 0.001 | 0.00174 |
| 491747.09 | 3607967.35 | 0.000 | 0.001 | 0.00164 |
| 491755.38 | 3607954.45 | 0.000 | 0.001 | 0.00160 |
| 491759.07 | 3607939.71 | 0.000 | 0.001 | 0.00151 |
| 491636.5 | 3608156.28 | 0.001 | 0.002 | 0.00308 |
| 491618.06 | 3608148.91 | 0.001 | 0.002 | 0.00270 |
| 491598.71 | 3608143.38 | 0.000 | 0.002 | 0.00241 |
| 491579.36 | 3608134.16 | 0.000 | 0.002 | 0.00213 |

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|---|---|---|---|---|
| 491565.53 | 3608132.32 | 0.000 | 0.002 | 0.00202 |
| 491548.94 | 3608123.1 | 0.000 | 0.001 | 0.00182 |
| 491654.01 | 3608119.42 | 0.000 | 0.002 | 0.00255 |
| 491663.22 | 3608133.24 | 0.001 | 0.002 | 0.00294 |
| 491657.69 | 3608106.51 | 0.000 | 0.002 | 0.00237 |
| 491663.22 | 3608094.53 | 0.000 | 0.002 | 0.00224 |
| 491674.28 | 3608094.53 | 0.000 | 0.002 | 0.00236 |
| 491681.65 | 3608086.24 | 0.000 | 0.002 | 0.00232 |
| 491686.26 | 3608072.42 | 0.000 | 0.002 | 0.00217 |
| 491663.22 | 3608078.87 | 0.000 | 0.002 | 0.00202 |
| 491671.52 | 3608072.42 | 0.000 | 0.002 | 0.00202 |
| 491676.12 | 3608058.59 | 0.000 | 0.002 | 0.00189 |
| 491678.89 | 3608048.45 | 0.000 | 0.001 | 0.00180 |
| 491690.87 | 3608053.98 | 0.000 | 0.002 | 0.00198 |
| 491695.48 | 3608035.55 | 0.000 | 0.001 | 0.00181 |
| 491701.93 | 3608024.49 | 0.000 | 0.001 | 0.00176 |
| 491624.52 | 3608121.26 | 0.000 | 0.002 | 0.00229 |
| 491615.3 | 3608116.65 | 0.000 | 0.002 | 0.00215 |
| 491603.32 | 3608112.97 | 0.000 | 0.002 | 0.00202 |
| 491590.42 | 3608107.44 | 0.000 | 0.002 | 0.00188 |
| 491582.12 | 3608104.67 | 0.000 | 0.001 | 0.00180 |
| 491567.38 | 3608101.91 | 0.000 | 0.001 | 0.00171 |
| 491553.55 | 3608094.53 | 0.000 | 0.001 | 0.00158 |
| 491560 | 3608079.79 | 0.000 | 0.001 | 0.00148 |
| 491571.98 | 3608083.47 | 0.000 | 0.001 | 0.00156 |
| 491585.81 | 3608088.08 | 0.000 | 0.001 | 0.00166 |
| 491599.63 | 3608094.53 | 0.000 | 0.001 | 0.00179 |
| 491614.38 | 3608097.3 | 0.000 | 0.002 | 0.00190 |
| 491626.36 | 3608102.83 | 0.000 | 0.002 | 0.00204 |
| 491630.97 | 3608077.94 | 0.000 | 0.001 | 0.00178 |
| 491613.46 | 3608071.49 | 0.000 | 0.001 | 0.00162 |
| 491635.57 | 3608062.28 | 0.000 | 0.001 | 0.00164 |
| 491647.56 | 3608065.04 | 0.000 | 0.001 | 0.00174 |
| 491568.3 | 3608046.61 | 0.000 | 0.001 | 0.00127 |
| 491556.32 | 3608038.32 | 0.000 | 0.001 | 0.00119 |
| 491572.91 | 3608032.79 | 0.000 | 0.001 | 0.00119 |
| 491594.1 | 3608048.45 | 0.000 | 0.001 | 0.00135 |
| 491589.49 | 3608035.55 | 0.000 | 0.001 | 0.00125 |
| 491608.85 | 3608039.24 | 0.000 | 0.001 | 0.00133 |
| 491612.53 | 3608025.41 | 0.000 | 0.001 | 0.00125 |
| 491625.44 | 3608040.16 | 0.000 | 0.001 | 0.00140 |
| 491636.5 | 3608029.1 | 0.000 | 0.001 | 0.00136 |
| 491654.01 | 3608027.26 | 0.000 | 0.001 | 0.00143 |
| 491643.87 | 3608011.59 | 0.000 | 0.001 | 0.00127 |

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| 491667.83 | 3608015.28 | 0.000 | 0.001 | 0.00142 |
| 491689.03 | 3607995 | 0.000 | 0.001 | 0.00140 |
| 491681.65 | 3607976.57 | 0.000 | 0.001 | 0.00123 |
| 491704.69 | 3607986.71 | 0.000 | 0.001 | 0.00144 |
| 491713.91 | 3607971.96 | 0.000 | 0.001 | 0.00140 |
| 491725.89 | 3607958.14 | 0.000 | 0.001 | 0.00139 |
| 491711.15 | 3607949.84 | 0.000 | 0.001 | 0.00124 |
| 491729.58 | 3607943.39 | 0.000 | 0.001 | 0.00131 |
| 491714.83 | 3607935.1 | 0.000 | 0.001 | 0.00117 |
| 491724.97 | 3607923.12 | 0.000 | 0.001 | 0.00116 |
| 491737.87 | 3607928.65 | 0.000 | 0.001 | 0.00127 |
| 491735.11 | 3607910.22 | 0.000 | 0.001 | 0.00115 |
| 491558.16 | 3608010.67 | 0.000 | 0.001 | 0.00104 |
| 491579.36 | 3607998.69 | 0.000 | 0.001 | 0.00102 |
| 491595.95 | 3608003.3 | 0.000 | 0.001 | 0.00107 |
| 491613.46 | 3607995.92 | 0.000 | 0.001 | 0.00108 |
| 491599.63 | 3607983.94 | 0.000 | 0.001 | 0.00098 |
| 491623.59 | 3607979.33 | 0.000 | 0.001 | 0.00102 |
| 491640.18 | 3607983.02 | 0.000 | 0.001 | 0.00109 |
| 491660.46 | 3607968.28 | 0.000 | 0.001 | 0.00108 |
| 491659.54 | 3607951.69 | 0.000 | 0.001 | 0.00100 |
| 491677.05 | 3607950.77 | 0.000 | 0.001 | 0.00106 |
| 491682.58 | 3607937.86 | 0.000 | 0.001 | 0.00102 |
| 491670.6 | 3607928.65 | 0.000 | 0.001 | 0.00094 |
| 491694.56 | 3607921.27 | 0.000 | 0.001 | 0.00100 |
| | | | | |
| 491682.58 | 3607913.9 | 0.000 | 0.001 | 0.00092 |
| 491682.58 | 3607901.92 | 0.000 | 0.001 | 0.00087 |
| 491705.62 | 3607902.84 | 0.000 | 0.001 | 0.00097 |
| 491561.62 | 3607964.09 | 0.000 | 0.001 | 0.00084 |
| 491578.12 | 3607959.66 | 0.000 | 0.001 | 0.00084 |
| 491573.42 | 3607943.99 | 0.000 | 0.001 | 0.00078 |
| 491600.84 | 3607959.66 | 0.000 | 0.001 | 0.00088 |
| 491591.44 | 3607944.77 | 0.000 | 0.001 | 0.00081 |
| 491603.97 | 3607934.59 | 0.000 | 0.001 | 0.00079 |
| 491615.72 | 3607947.91 | 0.000 | 0.001 | 0.00086 |
| 491636.09 | 3607933.02 | 0.000 | 0.001 | 0.00085 |
| 491625.12 | 3607917.35 | 0.000 | 0.001 | 0.00077 |
| 491644.71 | 3607918.92 | 0.000 | 0.001 | 0.00082 |
| 491642.36 | 3607896.99 | 0.000 | 0.001 | 0.00074 |
| 491658.03 | 3607905.6 | 0.000 | 0.001 | 0.00081 |
| 491665.08 | 3607887.59 | 0.000 | 0.001 | 0.00077 |
| 491647.06 | 3607883.67 | 0.000 | 0.001 | 0.00071 |
| 491564.8 | 3607922.84 | 0.000 | 0.001 | 0.00071 |

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| 491587.52 | 3607913.44 | 0.000 | 0.001 | 0.00070 |
| 491573.42 | 3607903.25 | 0.000 | 0.001 | 0.00066 |
| 491607.11 | 3607896.2 | 0.000 | 0.001 | 0.00068 |
| 491603.97 | 3607878.97 | 0.000 | 0.001 | 0.00063 |
| 491621.99 | 3607877.4 | 0.000 | 0.001 | 0.00065 |
| 491892.25 | 3607962.79 | 0.001 | 0.003 | 0.00401 |
| 491943.96 | 3607975.32 | 0.001 | 0.005 | 0.00615 |
| 491586.79 | 3608712.31 | 0.004 | 0.016 | 0.01945 |
| 491579.14 | 3608732.72 | 0.003 | 0.014 | 0.01686 |
| 491579.14 | 3608751.86 | 0.003 | 0.012 | 0.01511 |
| 491563.83 | 3608778.64 | 0.002 | 0.010 | 0.01264 |
| 491558.73 | 3608797.78 | 0.002 | 0.009 | 0.01135 |
| 491545.97 | 3608824.57 | 0.002 | 0.008 | 0.00974 |
| 491543.42 | 3608838.6 | 0.002 | 0.007 | 0.00909 |
| 491534.49 | 3608869.21 | 0.002 | 0.006 | 0.00782 |
| 491635.26 | 3608725.07 | 0.004 | 0.016 | 0.01979 |
| 491665.88 | 3608731.45 | 0.004 | 0.016 | 0.01934 |
| 491654.4 | 3608756.96 | 0.003 | 0.013 | 0.01597 |
| 491627.61 | 3608748.03 | 0.003 | 0.013 | 0.01671 |
| 491621.23 | 3608764.61 | 0.003 | 0.012 | 0.01489 |
| 491651.85 | 3608772.27 | 0.003 | 0.012 | 0.01437 |
| 491635.26 | 3608823.29 | 0.002 | 0.008 | 0.01045 |
| 491608.48 | 3608810.54 | 0.002 | 0.009 | 0.01118 |
| 491603.37 | 3608829.67 | 0.002 | 0.008 | 0.01003 |
| 491627.61 | 3608838.6 | 0.002 | 0.008 | 0.00958 |
| 491622.51 | 3608866.66 | 0.002 | 0.007 | 0.00824 |
| 491590.62 | 3608859.01 | 0.002 | 0.007 | 0.00856 |
| 491586.79 | 3608875.59 | 0.002 | 0.006 | 0.00787 |
| 491617.41 | 3608884.52 | 0.001 | 0.006 | 0.00753 |
| 491707.97 | 3608753.13 | 0.003 | 0.013 | 0.01654 |
| 491702.87 | 3608768.44 | 0.003 | 0.012 | 0.01479 |
| 491696.49 | 3608791.4 | 0.002 | 0.010 | 0.01265 |
| 491688.84 | 3608805.43 | 0.002 | 0.009 | 0.01156 |
| 491683.74 | 3608834.77 | 0.002 | 0.008 | 0.00969 |
| 491674.81 | 3608851.36 | 0.002 | 0.007 | 0.00884 |
| 491669.71 | 3608874.32 | 0.002 | 0.006 | 0.00782 |
| 491667.15 | 3608903.66 | 0.001 | 0.005 | 0.00674 |
| 491741.14 | 3608758.23 | 0.003 | 0.013 | 0.01614 |
| 491733.49 | 3608772.27 | 0.003 | 0.012 | 0.01453 |
| 491727.11 | 3608797.78 | 0.002 | 0.010 | 0.01220 |
| 491720.73 | 3608809.26 | 0.002 | 0.009 | 0.01132 |
| 491711.8 | 3608833.5 | 0.002 | 0.008 | 0.00976 |
| 491706.7 | 3608855.18 | 0.002 | 0.007 | 0.00863 |
| 491701.6 | 3608871.77 | 0.002 | 0.006 | 0.00789 |

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| 491699.05 | 3608899.83 | 0.001 | 0.005 | 0.00683 |
| 491778.13 | 3608770.99 | 0.003 | 0.012 | 0.01523 |
| 491773.03 | 3608791.4 | 0.003 | 0.011 | 0.01318 |
| 491762.83 | 3608811.81 | 0.002 | 0.009 | 0.01145 |
| 491760.28 | 3608828.39 | 0.002 | 0.008 | 0.01034 |
| 491755.17 | 3608851.36 | 0.002 | 0.007 | 0.00902 |
| 491747.52 | 3608869.21 | 0.002 | 0.007 | 0.00814 |
| 491738.59 | 3608884.52 | 0.001 | 0.006 | 0.00747 |
| 491738.59 | 3608902.38 | 0.001 | 0.005 | 0.00683 |
| 491804.92 | 3608781.2 | 0.003 | 0.012 | 0.01461 |
| 491802.37 | 3608806.71 | 0.002 | 0.010 | 0.01234 |
| 491789.61 | 3608822.02 | 0.002 | 0.009 | 0.01108 |
| 491788.34 | 3608839.87 | 0.002 | 0.008 | 0.00996 |
| 491774.31 | 3608853.91 | 0.002 | 0.007 | 0.00906 |
| 491778.13 | 3608875.59 | 0.002 | 0.007 | 0.00809 |
| 491773.03 | 3608892.17 | 0.001 | 0.006 | 0.00740 |
| 491770.48 | 3608916.41 | 0.001 | 0.005 | 0.00655 |
| 491848.29 | 3608793.95 | 0.003 | 0.011 | 0.01386 |
| 491845.74 | 3608815.64 | 0.002 | 0.010 | 0.01211 |
| 491835.54 | 3608834.77 | 0.002 | 0.009 | 0.01076 |
| 491829.16 | 3608859.01 | 0.002 | 0.008 | 0.00934 |
| 491824.06 | 3608874.32 | 0.002 | 0.007 | 0.00857 |
| 491824.06 | 3608890.9 | 0.002 | 0.006 | 0.00787 |
| 491820.23 | 3608904.93 | 0.001 | 0.006 | 0.00731 |
| 491818.95 | 3608924.07 | 0.001 | 0.005 | 0.00665 |
| 491817.68 | 3608940.65 | 0.001 | 0.005 | 0.00615 |
| 491873.81 | 3608822.02 | 0.002 | 0.009 | 0.01176 |
| 491864.88 | 3608842.43 | 0.002 | 0.008 | 0.01047 |
| 491859.77 | 3608864.11 | 0.002 | 0.007 | 0.00929 |
| 491855.95 | 3608878.14 | 0.002 | 0.007 | 0.00861 |
| 491849.57 | 3608899.83 | 0.002 | 0.006 | 0.00769 |
| 491857.22 | 3608915.14 | 0.001 | 0.006 | 0.00718 |
| 491869.98 | 3608930.44 | 0.001 | 0.005 | 0.00674 |
| 491890.39 | 3608932.99 | 0.001 | 0.005 | 0.00673 |
| 491915.9 | 3608818.19 | 0.002 | 0.010 | 0.01185 |
| 491914.63 | 3608838.6 | 0.002 | 0.009 | 0.01063 |
| 491904.42 | 3608855.18 | 0.002 | 0.008 | 0.00979 |
| 491903.14 | 3608874.32 | 0.002 | 0.007 | 0.00889 |
| 491895.49 | 3608897.28 | 0.002 | 0.006 | 0.00795 |
| 491915.9 | 3608899.83 | 0.002 | 0.006 | 0.00786 |
| 491936.31 | 3608902.38 | 0.002 | 0.006 | 0.00772 |
| 491952.89 | 3608910.03 | 0.001 | 0.006 | 0.00740 |
| 491966.93 | 3608922.79 | 0.001 | 0.006 | 0.00694 |
| 491923.55 | 3608947.03 | 0.001 | 0.005 | 0.00637 |

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|---|---|---|---|---|
| 491945.24 | 3608961.06 | 0.001 | 0.005 | 0.00599 |
| 491737.31 | 3608925.34 | 0.001 | 0.005 | 0.00612 |
| CONCUNIT ug | m^3 | 0.000 | 0.000 | |
| DEPUNIT g/m | 2 | 0.000 | 0.000 | |

## Moss Street

**Tier III mitigation**
**at Sensitive Receptors**

**Chronic Non-Cancer Hazard Index**

**Reference Exposure Level (REL) for DPM:** 5 ug/m3

**CNCHI = DPM/REL**

| X (m) | Y (m) | 2019 DPM (ug/m3) | 2020 DPM (ug/m3) | Max DPM (ug/m3) | CNCHI |
|---|---|---|---|---|---|
| 491856.94 | 3608423.76 | 0.291792 | 0.298278 | 0.298278 | 0.05966 |
| 491770.82 | 3608296.56 | 0.038958 | 0.040013 | 0.040013 | 0.00800 |
| 491786.69 | 3608300.4 | 0.078321 | 0.080232 | 0.080232 | 0.01605 |
| 491777.07 | 3608270.58 | 0.017503 | 0.017978 | 0.017978 | 0.00360 |
| 491794.39 | 3608275.87 | 0.033164 | 0.033985 | 0.033985 | 0.00680 |
| 491789.88 | 3608254.44 | 0.014375 | 0.014749 | 0.014749 | 0.00295 |
| 491793.88 | 3608239.79 | 0.010421 | 0.010692 | 0.010692 | 0.00214 |
| 491796.54 | 3608225.81 | 0.007843 | 0.008046 | 0.008046 | 0.00161 |
| 491799.2 | 3608213.16 | 0.006277 | 0.006438 | 0.006438 | 0.00129 |
| 491804.53 | 3608198.51 | 0.005155 | 0.005287 | 0.005287 | 0.00106 |
| 491835.16 | 3608317.03 | 0.183286 | 0.187434 | 0.187434 | 0.03749 |
| 491837.82 | 3608303.71 | 0.125669 | 0.128534 | 0.128534 | 0.02571 |
| 491843.81 | 3608287.73 | 0.079837 | 0.081669 | 0.081669 | 0.01633 |
| 491851.14 | 3608274.41 | 0.05689 | 0.058201 | 0.058201 | 0.01164 |
| 491863.07 | 3608247.22 | 0.030937 | 0.031655 | 0.031655 | 0.00633 |
| 491867.68 | 3608231.55 | 0.022464 | 0.022988 | 0.022988 | 0.00460 |
| 491875.05 | 3608218.65 | 0.01811 | 0.018533 | 0.018533 | 0.00371 |
| 491878.74 | 3608195.61 | 0.011922 | 0.012202 | 0.012202 | 0.00244 |
| 491885.19 | 3608177.18 | 0.009066 | 0.009279 | 0.009279 | 0.00186 |
| 491807.78 | 3608183.63 | 0.004171 | 0.004276 | 0.004276 | 0.00086 |
| 491812.39 | 3608167.97 | 0.00346 | 0.003546 | 0.003546 | 0.00071 |
| 491819.76 | 3608146.77 | 0.002788 | 0.002856 | 0.002856 | 0.00057 |
| 491840.03 | 3608155.06 | 0.003978 | 0.004074 | 0.004074 | 0.00081 |

| **Maximum Caner Risk** |
|---|
| 0.06 |
| **SDAQMD threshold of significance** |
| 1 |
| **Exceed thresholds?** |
| No |

| | | | | | |
|---|---|---|---|---|---|
| 491868.6 | 3608170.73 | 0.006973 | 0.007138 | 0.007138 | 0.00143 |
| 491865.26 | 3608414.36 | 0.272343 | 0.278398 | 0.278398 | 0.05568 |
| 491867.52 | 3608403.04 | 0.278696 | 0.284893 | 0.284893 | 0.05698 |
| 491872.05 | 3608392.29 | 0.273237 | 0.279315 | 0.279315 | 0.05586 |
| 491874.88 | 3608377.58 | 0.275943 | 0.282083 | 0.282083 | 0.05642 |
| 491886.76 | 3608431.91 | 0.179577 | 0.18357 | 0.18357 | 0.03671 |
| 491890.73 | 3608422.29 | 0.180217 | 0.184226 | 0.184226 | 0.03685 |
| 491896.39 | 3608409.84 | 0.178282 | 0.182249 | 0.182249 | 0.03645 |
| 491900.35 | 3608397.38 | 0.1785 | 0.182472 | 0.182472 | 0.03649 |
| 491903.74 | 3608384.93 | 0.177811 | 0.18177 | 0.18177 | 0.03635 |
| 491912.8 | 3608444.92 | 0.119038 | 0.121686 | 0.121686 | 0.02434 |
| 491917.89 | 3608432.47 | 0.121667 | 0.124374 | 0.124374 | 0.02487 |
| 491921.29 | 3608418.89 | 0.126026 | 0.128831 | 0.128831 | 0.02577 |
| 491926.95 | 3608408.14 | 0.124184 | 0.126948 | 0.126948 | 0.02539 |
| 491930.91 | 3608396.25 | 0.124059 | 0.126821 | 0.126821 | 0.02536 |
| 491950.72 | 3608425.12 | 0.089924 | 0.091926 | 0.091926 | 0.01839 |
| 491954.11 | 3608416.06 | 0.090836 | 0.092859 | 0.092859 | 0.01857 |
| 491959.21 | 3608404.74 | 0.09043 | 0.092444 | 0.092444 | 0.01849 |
| 491984.11 | 3608467.56 | 0.05087 | 0.052002 | 0.052002 | 0.01040 |
| 491987.5 | 3608453.98 | 0.054657 | 0.055874 | 0.055874 | 0.01117 |
| 491993.16 | 3608442.66 | 0.056124 | 0.057374 | 0.057374 | 0.01147 |
| 491998.26 | 3608432.47 | 0.05702 | 0.058291 | 0.058291 | 0.01166 |
| 492002.22 | 3608421.15 | 0.058326 | 0.059626 | 0.059626 | 0.01193 |
| 492012.41 | 3608475.49 | 0.038633 | 0.039493 | 0.039493 | 0.00790 |
| 492015.24 | 3608463.6 | 0.041366 | 0.042288 | 0.042288 | 0.00846 |
| 492020.9 | 3608451.15 | 0.043125 | 0.044086 | 0.044086 | 0.00882 |
| 492024.29 | 3608441.53 | 0.044525 | 0.045517 | 0.045517 | 0.00910 |
| 492028.25 | 3608428.51 | 0.046248 | 0.047279 | 0.047279 | 0.00946 |
| 492037.31 | 3608486.24 | 0.030029 | 0.030698 | 0.030698 | 0.00614 |
| 492042.4 | 3608472.09 | 0.032342 | 0.033063 | 0.033063 | 0.00661 |
| 492046.36 | 3608461.34 | 0.033909 | 0.034665 | 0.034665 | 0.00693 |
| 492050.89 | 3608450.58 | 0.035164 | 0.035948 | 0.035948 | 0.00719 |
| 492055.42 | 3608440.4 | 0.036092 | 0.036897 | 0.036897 | 0.00738 |
| 492065.61 | 3608493.6 | 0.0239 | 0.024433 | 0.024433 | 0.00489 |

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|---|---|---|---|---|---|
| 492069 | 3608481.15 | 0.025722 | 0.026295 | 0.026295 | 0.00526 |
| 492075.23 | 3608469.26 | 0.026888 | 0.027488 | 0.027488 | 0.00550 |
| 492078.06 | 3608457.38 | 0.028451 | 0.029085 | 0.029085 | 0.00582 |
| 492082.59 | 3608446.62 | 0.029391 | 0.030046 | 0.030046 | 0.00601 |
| 491873.18 | 3608334.56 | 0.235648 | 0.24091 | 0.24091 | 0.04818 |
| 491929.78 | 3608349.84 | 0.127325 | 0.130166 | 0.130166 | 0.02603 |
| 491879.97 | 3608317.02 | 0.155566 | 0.159054 | 0.159054 | 0.03181 |
| 491893.22 | 3608305.33 | 0.113007 | 0.115547 | 0.115547 | 0.02311 |
| 491889.89 | 3608289.35 | 0.083643 | 0.085533 | 0.085533 | 0.01711 |
| 491907.21 | 3608277.37 | 0.063961 | 0.065408 | 0.065408 | 0.01308 |
| 491909.87 | 3608246.74 | 0.036597 | 0.037432 | 0.037432 | 0.00749 |
| 491914.53 | 3608232.76 | 0.028716 | 0.029373 | 0.029373 | 0.00587 |
| 491920.52 | 3608219.44 | 0.023149 | 0.02368 | 0.02368 | 0.00474 |
| 491923.85 | 3608203.46 | 0.017899 | 0.018311 | 0.018311 | 0.00366 |
| 491922.52 | 3608187.48 | 0.013709 | 0.014026 | 0.014026 | 0.00281 |
| 491933.84 | 3608176.16 | 0.012096 | 0.012375 | 0.012375 | 0.00248 |
| 491936.5 | 3608332.63 | 0.10836 | 0.110782 | 0.110782 | 0.02216 |
| 491945.82 | 3608306.66 | 0.08002 | 0.081815 | 0.081815 | 0.01636 |
| 491948.49 | 3608292.02 | 0.067037 | 0.068544 | 0.068544 | 0.01371 |
| 491954.48 | 3608266.71 | 0.047709 | 0.048785 | 0.048785 | 0.00976 |
| 491965.8 | 3608249.4 | 0.037027 | 0.037865 | 0.037865 | 0.00757 |
| 491959.81 | 3608230.76 | 0.028978 | 0.029637 | 0.029637 | 0.00593 |
| 491973.12 | 3608219.44 | 0.024791 | 0.025354 | 0.025354 | 0.00507 |
| 491965.13 | 3608198.8 | 0.018585 | 0.019009 | 0.019009 | 0.00380 |
| 491987.11 | 3608190.14 | 0.017055 | 0.017443 | 0.017443 | 0.00349 |
| 491975.79 | 3608366.59 | 0.082643 | 0.084487 | 0.084487 | 0.01690 |
| 491980.45 | 3608353.27 | 0.078254 | 0.080002 | 0.080002 | 0.01600 |
| 491988.44 | 3608337.29 | 0.07025 | 0.07182 | 0.07182 | 0.01436 |
| 491991.77 | 3608319.32 | 0.063291 | 0.064707 | 0.064707 | 0.01294 |
| 492001.09 | 3608294.68 | 0.050981 | 0.052125 | 0.052125 | 0.01043 |
| 492006.41 | 3608282.03 | 0.044994 | 0.046004 | 0.046004 | 0.00920 |
| 492013.07 | 3608266.05 | 0.038202 | 0.039062 | 0.039062 | 0.00781 |
| 492013.07 | 3608251.4 | 0.03341 | 0.034163 | 0.034163 | 0.00683 |
| 492028.39 | 3608241.41 | 0.029065 | 0.029721 | 0.029721 | 0.00594 |

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| 492019.07 | 3608222.77 | 0.024718 | 0.025277 | 0.025277 | 0.00506 |
| 492045.7 | 3608210.78 | 0.021009 | 0.021484 | 0.021484 | 0.00430 |
| 492031.05 | 3608385.23 | 0.052082 | 0.053244 | 0.053244 | 0.01065 |
| 492035.71 | 3608369.92 | 0.051184 | 0.052327 | 0.052327 | 0.01047 |
| 492027.06 | 3608353.27 | 0.054278 | 0.05549 | 0.05549 | 0.01110 |
| 492046.36 | 3608339.96 | 0.046641 | 0.047684 | 0.047684 | 0.00954 |
| 492040.37 | 3608324.64 | 0.046708 | 0.047754 | 0.047754 | 0.00955 |
| 492057.02 | 3608313.32 | 0.040655 | 0.041565 | 0.041565 | 0.00831 |
| 492055.69 | 3608297.34 | 0.038346 | 0.039205 | 0.039205 | 0.00784 |
| 492059.02 | 3608282.03 | 0.034848 | 0.03563 | 0.03563 | 0.00713 |
| 492069.67 | 3608270.04 | 0.030994 | 0.031691 | 0.031691 | 0.00634 |
| 492061.68 | 3608253.4 | 0.028721 | 0.029367 | 0.029367 | 0.00587 |
| 492078.32 | 3608241.41 | 0.024926 | 0.025487 | 0.025487 | 0.00510 |
| 492079.66 | 3608226.76 | 0.022322 | 0.022825 | 0.022825 | 0.00456 |
| 492069.51 | 3608395.3 | 0.039025 | 0.039896 | 0.039896 | 0.00798 |
| 492076.17 | 3608375.99 | 0.038674 | 0.039538 | 0.039538 | 0.00791 |
| 492085.49 | 3608364.01 | 0.036811 | 0.037633 | 0.037633 | 0.00753 |
| 492102.14 | 3608406.62 | 0.030798 | 0.031486 | 0.031486 | 0.00630 |
| 492129.44 | 3608410.61 | 0.025936 | 0.026515 | 0.026515 | 0.00530 |
| 492095.48 | 3608352.69 | 0.034688 | 0.035463 | 0.035463 | 0.00709 |
| 492094.15 | 3608336.04 | 0.034547 | 0.03532 | 0.03532 | 0.00706 |
| 492135.43 | 3608348.69 | 0.027641 | 0.028259 | 0.028259 | 0.00565 |
| 492101.47 | 3608312.74 | 0.031738 | 0.032449 | 0.032449 | 0.00649 |
| 492120.78 | 3608244.15 | 0.021958 | 0.022452 | 0.022452 | 0.00449 |
| 492106.8 | 3608297.42 | 0.029537 | 0.030199 | 0.030199 | 0.00604 |
| 492168.06 | 3608256.14 | 0.019557 | 0.019997 | 0.019997 | 0.00400 |
| 491832.47 | 3608106.99 | 0.001936 | 0.001983 | 0.001983 | 0.00040 |
| 491853.78 | 3608116.31 | 0.002682 | 0.002746 | 0.002746 | 0.00055 |
| 491874.42 | 3608123.64 | 0.003603 | 0.003688 | 0.003688 | 0.00074 |
| 491899.72 | 3608128.96 | 0.004841 | 0.004954 | 0.004954 | 0.00099 |
| 491836.47 | 3608093.01 | 0.001719 | 0.00176 | 0.00176 | 0.00035 |
| 491877.09 | 3608106.33 | 0.00294 | 0.003009 | 0.003009 | 0.00060 |
| 491905.05 | 3608118.98 | 0.004401 | 0.004504 | 0.004504 | 0.00090 |
| 491907.71 | 3608101.66 | 0.003579 | 0.003663 | 0.003663 | 0.00073 |

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| 491883.74 | 3608091.01 | 0.002578 | 0.002639 | 0.002639 | 0.00053 |
| 491848.45 | 3608065.04 | 0.001426 | 0.00146 | 0.00146 | 0.00029 |
| 491853.12 | 3608053.06 | 0.001317 | 0.001348 | 0.001348 | 0.00027 |
| 491873.09 | 3608063.05 | 0.00172 | 0.001761 | 0.001761 | 0.00035 |
| 491909.71 | 3608072.37 | 0.002551 | 0.00261 | 0.00261 | 0.00052 |
| 491921.03 | 3608059.05 | 0.002386 | 0.002442 | 0.002442 | 0.00049 |
| 491925.69 | 3608040.41 | 0.00202 | 0.002067 | 0.002067 | 0.00041 |
| 491856.44 | 3608031.75 | 0.001107 | 0.001133 | 0.001133 | 0.00023 |
| 491867.1 | 3608010.44 | 0.000994 | 0.001017 | 0.001017 | 0.00020 |
| 491875.09 | 3607976.49 | 0.000795 | 0.000814 | 0.000814 | 0.00016 |
| 491918.37 | 3607991.8 | 0.001206 | 0.001234 | 0.001234 | 0.00025 |
| 491945 | 3608000.46 | 0.001549 | 0.001584 | 0.001584 | 0.00032 |
| 491935.09 | 3608141.53 | 0.007314 | 0.007484 | 0.007484 | 0.00150 |
| 491960.9 | 3608152.59 | 0.009659 | 0.009882 | 0.009882 | 0.00198 |
| 491988.54 | 3608164.57 | 0.012336 | 0.012619 | 0.012619 | 0.00252 |
| 491946.15 | 3608114.81 | 0.005424 | 0.00555 | 0.00555 | 0.00111 |
| 491988.54 | 3608129.55 | 0.00795 | 0.008133 | 0.008133 | 0.00163 |
| 492018.04 | 3608107.44 | 0.006756 | 0.006911 | 0.006911 | 0.00138 |
| 491955.37 | 3608089 | 0.004143 | 0.004239 | 0.004239 | 0.00085 |
| 491963.66 | 3608059.51 | 0.003092 | 0.003164 | 0.003164 | 0.00063 |
| 491984.86 | 3608059.51 | 0.003458 | 0.003538 | 0.003538 | 0.00071 |
| 492031.86 | 3608066.89 | 0.004565 | 0.00467 | 0.00467 | 0.00093 |
| 492020.8 | 3608040.16 | 0.003337 | 0.003414 | 0.003414 | 0.00068 |
| 491977.49 | 3608027.26 | 0.002393 | 0.002448 | 0.002448 | 0.00049 |
| 491983.94 | 3608007.9 | 0.002056 | 0.002104 | 0.002104 | 0.00042 |
| 492044.76 | 3608018.04 | 0.002972 | 0.00304 | 0.00304 | 0.00061 |
| 492048.45 | 3608001.45 | 0.002592 | 0.002651 | 0.002651 | 0.00053 |
| 491999.6 | 3607989.47 | 0.001881 | 0.001924 | 0.001924 | 0.00038 |
| 492038.31 | 3608171.95 | 0.014271 | 0.014595 | 0.014595 | 0.00292 |
| 492047.53 | 3608155.36 | 0.012041 | 0.012315 | 0.012315 | 0.00246 |
| 492086.23 | 3608187.61 | 0.016085 | 0.016449 | 0.016449 | 0.00329 |
| 492095.45 | 3608171.03 | 0.01383 | 0.014143 | 0.014143 | 0.00283 |
| 492053.98 | 3608123.1 | 0.008684 | 0.008881 | 0.008881 | 0.00178 |
| 492109.27 | 3608145.22 | 0.011013 | 0.011263 | 0.011263 | 0.00225 |

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| 492058.59 | 3608100.06 | 0.00692 | 0.007078 | 0.007078 | 0.00142 |
| 492123.1 | 3608113.89 | 0.008449 | 0.00864 | 0.00864 | 0.00173 |
| 492135.08 | 3608094.53 | 0.007225 | 0.007389 | 0.007389 | 0.00148 |
| 492076.1 | 3608065.04 | 0.005102 | 0.005218 | 0.005218 | 0.00104 |
| 492085.31 | 3608030.02 | 0.003787 | 0.003873 | 0.003873 | 0.00077 |
| 492139.69 | 3608065.96 | 0.005728 | 0.005859 | 0.005859 | 0.00117 |
| 492139.69 | 3608212.5 | 0.017248 | 0.017636 | 0.017636 | 0.00353 |
| 492183.92 | 3608227.24 | 0.016397 | 0.016766 | 0.016766 | 0.00335 |
| 492143.37 | 3608192.22 | 0.015041 | 0.01538 | 0.01538 | 0.00308 |
| 492194.98 | 3608204.2 | 0.014228 | 0.014548 | 0.014548 | 0.00291 |
| 492203.28 | 3608183.01 | 0.012494 | 0.012775 | 0.012775 | 0.00256 |
| 492151.67 | 3608153.52 | 0.011367 | 0.011624 | 0.011624 | 0.00232 |
| 492197.75 | 3608162.73 | 0.011269 | 0.011523 | 0.011523 | 0.00230 |
| 492159.04 | 3608135.08 | 0.009878 | 0.010102 | 0.010102 | 0.00202 |
| 492164.57 | 3608118.49 | 0.008718 | 0.008916 | 0.008916 | 0.00178 |
| 492219.86 | 3608141.53 | 0.009599 | 0.009815 | 0.009815 | 0.00196 |
| 492223.55 | 3608114.81 | 0.008137 | 0.008321 | 0.008321 | 0.00166 |
| 492231.84 | 3608098.22 | 0.00729 | 0.007455 | 0.007455 | 0.00149 |
| 492170.1 | 3608097.3 | 0.007441 | 0.00761 | 0.00761 | 0.00152 |
| 492180.24 | 3608077.94 | 0.006451 | 0.006597 | 0.006597 | 0.00132 |
| 492183.92 | 3608055.83 | 0.005485 | 0.005609 | 0.005609 | 0.00112 |
| 492218.94 | 3608068.73 | 0.006057 | 0.006194 | 0.006194 | 0.00124 |
| 492246.59 | 3608230.01 | 0.013614 | 0.01392 | 0.01392 | 0.00278 |
| 492239.22 | 3608207.89 | 0.012822 | 0.01311 | 0.01311 | 0.00262 |
| 492241.98 | 3608194.07 | 0.012009 | 0.01228 | 0.01228 | 0.00246 |
| 492246.59 | 3608176.56 | 0.010974 | 0.011221 | 0.011221 | 0.00224 |
| 492257.65 | 3608163.65 | 0.01008 | 0.010308 | 0.010308 | 0.00206 |
| 492261.34 | 3608145.22 | 0.009148 | 0.009355 | 0.009355 | 0.00187 |
| 492266.87 | 3608124.02 | 0.008131 | 0.008314 | 0.008314 | 0.00166 |
| 492272.39 | 3608108.36 | 0.007425 | 0.007593 | 0.007593 | 0.00152 |
| 492277.92 | 3608094.53 | 0.006845 | 0.007 | 0.007 | 0.00140 |
| 492285.3 | 3608081.63 | 0.006333 | 0.006476 | 0.006476 | 0.00130 |
| 491685.34 | 3608168.26 | 0.000886 | 0.00091 | 0.00091 | 0.00018 |
| 491689.95 | 3608145.22 | 0.000751 | 0.000771 | 0.000771 | 0.00015 |

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| 491694.56 | 3608131.4 | 0.000692 | 0.00071 | 0.00071 | 0.00014 |
| 491698.24 | 3608118.49 | 0.000641 | 0.000658 | 0.000658 | 0.00013 |
| 491701.01 | 3608105.59 | 0.000593 | 0.000608 | 0.000608 | 0.00012 |
| 491703.77 | 3608093.61 | 0.000553 | 0.000567 | 0.000567 | 0.00011 |
| 491707.46 | 3608079.79 | 0.000514 | 0.000527 | 0.000527 | 0.00011 |
| 491713.91 | 3608070.57 | 0.000503 | 0.000515 | 0.000515 | 0.00010 |
| 491715.75 | 3608058.59 | 0.000469 | 0.000481 | 0.000481 | 0.00010 |
| 491720.36 | 3608046.61 | 0.000447 | 0.000458 | 0.000458 | 0.00009 |
| 491732.34 | 3608014.36 | 0.000394 | 0.000403 | 0.000403 | 0.00008 |
| 491735.11 | 3608002.37 | 0.000373 | 0.000382 | 0.000382 | 0.00008 |
| 491735.11 | 3607991.32 | 0.00035 | 0.000358 | 0.000358 | 0.00007 |
| 491744.32 | 3607980.26 | 0.000347 | 0.000355 | 0.000355 | 0.00007 |
| 491747.09 | 3607967.35 | 0.000327 | 0.000335 | 0.000335 | 0.00007 |
| 491755.38 | 3607954.45 | 0.00032 | 0.000328 | 0.000328 | 0.00007 |
| 491759.07 | 3607939.71 | 0.000302 | 0.000309 | 0.000309 | 0.00006 |
| 491636.5 | 3608156.28 | 0.000613 | 0.000629 | 0.000629 | 0.00013 |
| 491618.06 | 3608148.91 | 0.000537 | 0.000551 | 0.000551 | 0.00011 |
| 491598.71 | 3608143.38 | 0.000481 | 0.000494 | 0.000494 | 0.00010 |
| 491579.36 | 3608134.16 | 0.000425 | 0.000436 | 0.000436 | 0.00009 |
| 491565.53 | 3608132.32 | 0.000402 | 0.000412 | 0.000412 | 0.00008 |
| 491548.94 | 3608123.1 | 0.000363 | 0.000372 | 0.000372 | 0.00007 |
| 491654.01 | 3608119.42 | 0.000508 | 0.000521 | 0.000521 | 0.00010 |
| 491663.22 | 3608133.24 | 0.000586 | 0.000601 | 0.000601 | 0.00012 |
| 491657.69 | 3608106.51 | 0.000472 | 0.000484 | 0.000484 | 0.00010 |
| 491663.22 | 3608094.53 | 0.000446 | 0.000458 | 0.000458 | 0.00009 |
| 491674.28 | 3608094.53 | 0.000471 | 0.000483 | 0.000483 | 0.00010 |
| 491681.65 | 3608086.24 | 0.000462 | 0.000474 | 0.000474 | 0.00009 |
| 491686.26 | 3608072.42 | 0.000432 | 0.000443 | 0.000443 | 0.00009 |
| 491663.22 | 3608078.87 | 0.000403 | 0.000413 | 0.000413 | 0.00008 |
| 491671.52 | 3608072.42 | 0.000402 | 0.000412 | 0.000412 | 0.00008 |
| 491676.12 | 3608058.59 | 0.000377 | 0.000386 | 0.000386 | 0.00008 |
| 491678.89 | 3608048.45 | 0.000359 | 0.000368 | 0.000368 | 0.00007 |
| 491690.87 | 3608053.98 | 0.000394 | 0.000404 | 0.000404 | 0.00008 |
| 491695.48 | 3608035.55 | 0.000361 | 0.00037 | 0.00037 | 0.00007 |

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| 491701.93 | 3608024.49 | 0.00035 | 0.000359 | 0.000359 | 0.00007 |
| 491624.52 | 3608121.26 | 0.000456 | 0.000468 | 0.000468 | 0.00009 |
| 491615.3 | 3608116.65 | 0.000429 | 0.00044 | 0.00044 | 0.00009 |
| 491603.32 | 3608112.97 | 0.000403 | 0.000413 | 0.000413 | 0.00008 |
| 491590.42 | 3608107.44 | 0.000374 | 0.000384 | 0.000384 | 0.00008 |
| 491582.12 | 3608104.67 | 0.00036 | 0.000369 | 0.000369 | 0.00007 |
| 491567.38 | 3608101.91 | 0.00034 | 0.000349 | 0.000349 | 0.00007 |
| 491553.55 | 3608094.53 | 0.000315 | 0.000323 | 0.000323 | 0.00006 |
| 491560 | 3608079.79 | 0.000296 | 0.000303 | 0.000303 | 0.00006 |
| 491571.98 | 3608083.47 | 0.000311 | 0.000318 | 0.000318 | 0.00006 |
| 491585.81 | 3608088.08 | 0.00033 | 0.000338 | 0.000338 | 0.00007 |
| 491599.63 | 3608094.53 | 0.000356 | 0.000365 | 0.000365 | 0.00007 |
| 491614.38 | 3608097.3 | 0.000378 | 0.000388 | 0.000388 | 0.00008 |
| 491626.36 | 3608102.83 | 0.000407 | 0.000418 | 0.000418 | 0.00008 |
| 491630.97 | 3608077.94 | 0.000354 | 0.000363 | 0.000363 | 0.00007 |
| 491613.46 | 3608071.49 | 0.000323 | 0.000331 | 0.000331 | 0.00007 |
| 491635.57 | 3608062.28 | 0.000328 | 0.000336 | 0.000336 | 0.00007 |
| 491647.56 | 3608065.04 | 0.000347 | 0.000356 | 0.000356 | 0.00007 |
| 491568.3 | 3608046.61 | 0.000253 | 0.000259 | 0.000259 | 0.00005 |
| 491556.32 | 3608038.32 | 0.000237 | 0.000243 | 0.000243 | 0.00005 |
| 491572.91 | 3608032.79 | 0.000238 | 0.000244 | 0.000244 | 0.00005 |
| 491594.1 | 3608048.45 | 0.00027 | 0.000277 | 0.000277 | 0.00006 |
| 491589.49 | 3608035.55 | 0.000249 | 0.000256 | 0.000256 | 0.00005 |
| 491608.85 | 3608039.24 | 0.000266 | 0.000273 | 0.000273 | 0.00005 |
| 491612.53 | 3608025.41 | 0.000249 | 0.000256 | 0.000256 | 0.00005 |
| 491625.44 | 3608040.16 | 0.00028 | 0.000287 | 0.000287 | 0.00006 |
| 491636.5 | 3608029.1 | 0.000272 | 0.000279 | 0.000279 | 0.00006 |
| 491654.01 | 3608027.26 | 0.000286 | 0.000293 | 0.000293 | 0.00006 |
| 491643.87 | 3608011.59 | 0.000254 | 0.00026 | 0.00026 | 0.00005 |
| 491667.83 | 3608015.28 | 0.000283 | 0.00029 | 0.00029 | 0.00006 |
| 491689.03 | 3607995 | 0.000279 | 0.000286 | 0.000286 | 0.00006 |
| 491681.65 | 3607976.57 | 0.000245 | 0.000251 | 0.000251 | 0.00005 |
| 491704.69 | 3607986.71 | 0.000288 | 0.000295 | 0.000295 | 0.00006 |
| 491713.91 | 3607971.96 | 0.00028 | 0.000286 | 0.000286 | 0.00006 |

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| 491725.89 | 3607958.14 | 0.000277 | 0.000284 | 0.000284 | 0.00006 |
| 491711.15 | 3607949.84 | 0.000246 | 0.000252 | 0.000252 | 0.00005 |
| 491729.58 | 3607943.39 | 0.000262 | 0.000268 | 0.000268 | 0.00005 |
| 491714.83 | 3607935.1 | 0.000234 | 0.000239 | 0.000239 | 0.00005 |
| 491724.97 | 3607923.12 | 0.000232 | 0.000237 | 0.000237 | 0.00005 |
| 491737.87 | 3607928.65 | 0.000254 | 0.00026 | 0.00026 | 0.00005 |
| 491735.11 | 3607910.22 | 0.000229 | 0.000235 | 0.000235 | 0.00005 |
| 491558.16 | 3608010.67 | 0.000207 | 0.000212 | 0.000212 | 0.00004 |
| 491579.36 | 3607998.69 | 0.000203 | 0.000208 | 0.000208 | 0.00004 |
| 491595.95 | 3608003.3 | 0.000214 | 0.00022 | 0.00022 | 0.00004 |
| 491613.46 | 3607995.92 | 0.000215 | 0.00022 | 0.00022 | 0.00004 |
| 491599.63 | 3607983.94 | 0.000196 | 0.000201 | 0.000201 | 0.00004 |
| 491623.59 | 3607979.33 | 0.000203 | 0.000208 | 0.000208 | 0.00004 |
| 491640.18 | 3607983.02 | 0.000217 | 0.000222 | 0.000222 | 0.00004 |
| 491660.46 | 3607968.28 | 0.000216 | 0.000221 | 0.000221 | 0.00004 |
| 491659.54 | 3607951.69 | 0.000199 | 0.000204 | 0.000204 | 0.00004 |
| 491677.05 | 3607950.77 | 0.000212 | 0.000217 | 0.000217 | 0.00004 |
| 491682.58 | 3607937.86 | 0.000204 | 0.000209 | 0.000209 | 0.00004 |
| 491670.6 | 3607928.65 | 0.000187 | 0.000191 | 0.000191 | 0.00004 |
| 491694.56 | 3607921.27 | 0.000199 | 0.000204 | 0.000204 | 0.00004 |
| 491682.58 | 3607913.9 | 0.000184 | 0.000188 | 0.000188 | 0.00004 |
| 491682.58 | 3607901.92 | 0.000174 | 0.000179 | 0.000179 | 0.00004 |
| 491705.62 | 3607902.84 | 0.000193 | 0.000198 | 0.000198 | 0.00004 |
| 491561.62 | 3607964.09 | 0.000168 | 0.000172 | 0.000172 | 0.00003 |
| 491578.12 | 3607959.66 | 0.000168 | 0.000173 | 0.000173 | 0.00003 |
| 491573.42 | 3607943.99 | 0.000156 | 0.00016 | 0.00016 | 0.00003 |
| 491600.84 | 3607959.66 | 0.000176 | 0.00018 | 0.00018 | 0.00004 |
| 491591.44 | 3607944.77 | 0.000161 | 0.000165 | 0.000165 | 0.00003 |
| 491603.97 | 3607934.59 | 0.000158 | 0.000162 | 0.000162 | 0.00003 |
| 491615.72 | 3607947.91 | 0.000172 | 0.000176 | 0.000176 | 0.00004 |
| 491636.09 | 3607933.02 | 0.00017 | 0.000174 | 0.000174 | 0.00003 |
| 491625.12 | 3607917.35 | 0.000154 | 0.000158 | 0.000158 | 0.00003 |
| 491644.71 | 3607918.92 | 0.000164 | 0.000168 | 0.000168 | 0.00003 |
| 491642.36 | 3607896.99 | 0.000148 | 0.000152 | 0.000152 | 0.00003 |

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|---|---|---|---|---|---|
| 491658.03 | 3607905.6 | 0.000162 | 0.000166 | 0.000166 | 0.00003 |
| 491665.08 | 3607887.59 | 0.000154 | 0.000158 | 0.000158 | 0.00003 |
| 491647.06 | 3607883.67 | 0.000143 | 0.000146 | 0.000146 | 0.00003 |
| 491564.8 | 3607922.84 | 0.000141 | 0.000144 | 0.000144 | 0.00003 |
| 491587.52 | 3607913.44 | 0.00014 | 0.000143 | 0.000143 | 0.00003 |
| 491573.42 | 3607903.25 | 0.000131 | 0.000134 | 0.000134 | 0.00003 |
| 491607.11 | 3607896.2 | 0.000135 | 0.000138 | 0.000138 | 0.00003 |
| 491603.97 | 3607878.97 | 0.000125 | 0.000128 | 0.000128 | 0.00003 |
| 491621.99 | 3607877.4 | 0.00013 | 0.000133 | 0.000133 | 0.00003 |
| 491892.25 | 3607962.79 | 0.0008 | 0.000819 | 0.000819 | 0.00016 |
| 491943.96 | 3607975.32 | 0.001228 | 0.001257 | 0.001257 | 0.00025 |
| 491586.79 | 3608712.31 | 0.003886 | 0.003974 | 0.003974 | 0.00079 |
| 491579.14 | 3608732.72 | 0.00337 | 0.003446 | 0.003446 | 0.00069 |
| 491579.14 | 3608751.86 | 0.003019 | 0.003087 | 0.003087 | 0.00062 |
| 491563.83 | 3608778.64 | 0.002526 | 0.002583 | 0.002583 | 0.00052 |
| 491558.73 | 3608797.78 | 0.002267 | 0.002318 | 0.002318 | 0.00046 |
| 491545.97 | 3608824.57 | 0.001947 | 0.001991 | 0.001991 | 0.00040 |
| 491543.42 | 3608838.6 | 0.001816 | 0.001857 | 0.001857 | 0.00037 |
| 491534.49 | 3608869.21 | 0.001563 | 0.001598 | 0.001598 | 0.00032 |
| 491635.26 | 3608725.07 | 0.003954 | 0.004043 | 0.004043 | 0.00081 |
| 491665.88 | 3608731.45 | 0.003864 | 0.00395 | 0.00395 | 0.00079 |
| 491654.4 | 3608756.96 | 0.003192 | 0.003263 | 0.003263 | 0.00065 |
| 491627.61 | 3608748.03 | 0.003339 | 0.003414 | 0.003414 | 0.00068 |
| 491621.23 | 3608764.61 | 0.002976 | 0.003043 | 0.003043 | 0.00061 |
| 491651.85 | 3608772.27 | 0.002872 | 0.002937 | 0.002937 | 0.00059 |
| 491635.26 | 3608823.29 | 0.002088 | 0.002135 | 0.002135 | 0.00043 |
| 491608.48 | 3608810.54 | 0.002235 | 0.002285 | 0.002285 | 0.00046 |
| 491603.37 | 3608829.67 | 0.002004 | 0.002049 | 0.002049 | 0.00041 |
| 491627.61 | 3608838.6 | 0.001915 | 0.001958 | 0.001958 | 0.00039 |
| 491622.51 | 3608866.66 | 0.001647 | 0.001684 | 0.001684 | 0.00034 |
| 491590.62 | 3608859.01 | 0.00171 | 0.001749 | 0.001749 | 0.00035 |
| 491586.79 | 3608875.59 | 0.001573 | 0.001609 | 0.001609 | 0.00032 |
| 491617.41 | 3608884.52 | 0.001505 | 0.001539 | 0.001539 | 0.00031 |
| 491707.97 | 3608753.13 | 0.003306 | 0.00338 | 0.00338 | 0.00068 |

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|---|---|---|---|---|---|
| 491702.87 | 3608768.44 | 0.002956 | 0.003022 | 0.003022 | 0.00060 |
| 491696.49 | 3608791.4 | 0.002527 | 0.002584 | 0.002584 | 0.00052 |
| 491688.84 | 3608805.43 | 0.00231 | 0.002362 | 0.002362 | 0.00047 |
| 491683.74 | 3608834.77 | 0.001936 | 0.00198 | 0.00198 | 0.00040 |
| 491674.81 | 3608851.36 | 0.001765 | 0.001805 | 0.001805 | 0.00036 |
| 491669.71 | 3608874.32 | 0.001562 | 0.001597 | 0.001597 | 0.00032 |
| 491667.15 | 3608903.66 | 0.001347 | 0.001377 | 0.001377 | 0.00028 |
| 491741.14 | 3608758.23 | 0.003225 | 0.003297 | 0.003297 | 0.00066 |
| 491733.49 | 3608772.27 | 0.002903 | 0.002968 | 0.002968 | 0.00059 |
| 491727.11 | 3608797.78 | 0.002438 | 0.002493 | 0.002493 | 0.00050 |
| 491720.73 | 3608809.26 | 0.002261 | 0.002312 | 0.002312 | 0.00046 |
| 491711.8 | 3608833.5 | 0.00195 | 0.001994 | 0.001994 | 0.00040 |
| 491706.7 | 3608855.18 | 0.001724 | 0.001762 | 0.001762 | 0.00035 |
| 491701.6 | 3608871.77 | 0.001576 | 0.001611 | 0.001611 | 0.00032 |
| 491699.05 | 3608899.83 | 0.001366 | 0.001396 | 0.001396 | 0.00028 |
| 491778.13 | 3608770.99 | 0.003042 | 0.003111 | 0.003111 | 0.00062 |
| 491773.03 | 3608791.4 | 0.002634 | 0.002693 | 0.002693 | 0.00054 |
| 491762.83 | 3608811.81 | 0.002289 | 0.00234 | 0.00234 | 0.00047 |
| 491760.28 | 3608828.39 | 0.002065 | 0.002112 | 0.002112 | 0.00042 |
| 491755.17 | 3608851.36 | 0.001802 | 0.001843 | 0.001843 | 0.00037 |
| 491747.52 | 3608869.21 | 0.001626 | 0.001663 | 0.001663 | 0.00033 |
| 491738.59 | 3608884.52 | 0.001493 | 0.001526 | 0.001526 | 0.00031 |
| 491738.59 | 3608902.38 | 0.001365 | 0.001396 | 0.001396 | 0.00028 |
| 491804.92 | 3608781.2 | 0.00292 | 0.002985 | 0.002985 | 0.00060 |
| 491802.37 | 3608806.71 | 0.002467 | 0.002522 | 0.002522 | 0.00050 |
| 491789.61 | 3608822.02 | 0.002213 | 0.002263 | 0.002263 | 0.00045 |
| 491788.34 | 3608839.87 | 0.00199 | 0.002035 | 0.002035 | 0.00041 |
| 491774.31 | 3608853.91 | 0.00181 | 0.001851 | 0.001851 | 0.00037 |
| 491778.13 | 3608875.59 | 0.001617 | 0.001654 | 0.001654 | 0.00033 |
| 491773.03 | 3608892.17 | 0.001478 | 0.001511 | 0.001511 | 0.00030 |
| 491770.48 | 3608916.41 | 0.001309 | 0.001339 | 0.001339 | 0.00027 |
| 491848.29 | 3608793.95 | 0.002769 | 0.002831 | 0.002831 | 0.00057 |
| 491845.74 | 3608815.64 | 0.00242 | 0.002475 | 0.002475 | 0.00049 |
| 491835.54 | 3608834.77 | 0.002149 | 0.002197 | 0.002197 | 0.00044 |

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|---|---|---|---|---|---|
| 491829.16 | 3608859.01 | 0.001867 | 0.001909 | 0.001909 | 0.00038 |
| 491824.06 | 3608874.32 | 0.001712 | 0.001751 | 0.001751 | 0.00035 |
| 491824.06 | 3608890.9 | 0.001572 | 0.001607 | 0.001607 | 0.00032 |
| 491820.23 | 3608904.93 | 0.00146 | 0.001493 | 0.001493 | 0.00030 |
| 491818.95 | 3608924.07 | 0.00133 | 0.00136 | 0.00136 | 0.00027 |
| 491817.68 | 3608940.65 | 0.00123 | 0.001257 | 0.001257 | 0.00025 |
| 491873.81 | 3608822.02 | 0.00235 | 0.002403 | 0.002403 | 0.00048 |
| 491864.88 | 3608842.43 | 0.002091 | 0.002138 | 0.002138 | 0.00043 |
| 491859.77 | 3608864.11 | 0.001856 | 0.001898 | 0.001898 | 0.00038 |
| 491855.95 | 3608878.14 | 0.001721 | 0.00176 | 0.00176 | 0.00035 |
| 491849.57 | 3608899.83 | 0.001536 | 0.001571 | 0.001571 | 0.00031 |
| 491857.22 | 3608915.14 | 0.001434 | 0.001466 | 0.001466 | 0.00029 |
| 491869.98 | 3608930.44 | 0.001346 | 0.001377 | 0.001377 | 0.00028 |
| 491890.39 | 3608932.99 | 0.001345 | 0.001375 | 0.001375 | 0.00027 |
| 491915.9 | 3608818.19 | 0.002367 | 0.00242 | 0.00242 | 0.00048 |
| 491914.63 | 3608838.6 | 0.002124 | 0.002172 | 0.002172 | 0.00043 |
| 491904.42 | 3608855.18 | 0.001957 | 0.002001 | 0.002001 | 0.00040 |
| 491903.14 | 3608874.32 | 0.001777 | 0.001817 | 0.001817 | 0.00036 |
| 491895.49 | 3608897.28 | 0.001589 | 0.001625 | 0.001625 | 0.00032 |
| 491915.9 | 3608899.83 | 0.00157 | 0.001605 | 0.001605 | 0.00032 |
| 491936.31 | 3608902.38 | 0.001542 | 0.001577 | 0.001577 | 0.00032 |
| 491952.89 | 3608910.03 | 0.001478 | 0.001511 | 0.001511 | 0.00030 |
| 491966.93 | 3608922.79 | 0.001387 | 0.001418 | 0.001418 | 0.00028 |
| 491923.55 | 3608947.03 | 0.001272 | 0.001301 | 0.001301 | 0.00026 |
| 491945.24 | 3608961.06 | 0.001197 | 0.001224 | 0.001224 | 0.00024 |
| 491737.31 | 3608925.34 | 0.001223 | 0.001251 | 0.001251 | 0.00025 |
| CONCUNIT ug/ m^3 | | 0 | 0 | 0 | 0.00000 |
| DEPUNIT g/m^ | 2 | 0 | 0 | 0 | 0.00000 |

## Moss Street

**Tier IV mitigation**

**Construction Annual DPM Emissions ( as PM10 Exhaust)**

| **Construction Scheduling** | **2019** | | |
|---|---|---|---|
| | 8 | hours/day | |
| | 5 | days/week | |
| | 18 | weeks/year | start from 9/1/2019 |
| | 720 | hours/year | |

**Onsite Construction Area Source Size (m2):** 27603.9 from AERMOD

**Onsite Construction PM10 Emissions**

| **2019** | **Construction Activity** | **Onsite Annual DPM Exhaust Emissions (tons/year)** | **Onsite Annual DPM Exhaust Emissions (g/sec)** | **Onsite DPM Source Exhaust Emissions (g/m2-sec)** |
|---|---|---|---|---|
| | Demolistion | 9.200E-04 | 3.223E-04 | 1.168E-08 |
| | Grading | 7.300E-04 | 2.557E-04 | 9.264E-09 |
| | Building Construction | 5.500E-04 | 1.927E-04 | 6.980E-09 |
| | **Total** | **2.200E-03** | **7.707E-04** | **2.792E-08** |

**Offsite Construction Vehicle PM10 Emissions**

| **2019** | **Construction Activity** | **Offsite Hauling Annual DPM Exhaust Emissions (tons/year)** | **Offsite Vendor Annual DPM Exhaust Emissions (tons/year)** | **Offsite Workers Annual DPM Exhaust Emissions (tons/year)** | |
|---|---|---|---|---|---|
| | Demolistion | 1.100E-04 | 0.000E+00 | 1.000E-05 | |
| | Grading | 1.790E-03 | 0.000E+00 | 1.000E-05 | |
| | Building Construction | 0.000E+00 | 4.700E-04 | 1.300E-04 | |
| | **Total (tons/year)** | **1.900E-03** | **4.700E-04** | **1.500E-04** | **2.520E-03** |
| | **Trip Distance assumed in CalEEMod (mi)** | 20.0 | 7.3 | 10.8 | |
| | **Offsite Project Trip Distance Along Roadway Segment** Project>I5 (mi) | 0.21 | 0.21 | 0.21 | |
| | **Offsite Project Emissions Along Roadway Segment** Project>I-5 (tons/year) | **1.012E-05** | **6.859E-06** | **1.480E-06** | |

| **Offsite Emissions Along Roadway Segment Analyzed** | |
|---|---|
| **Total Offsite Project Exhaust Emissions (tons/year)** | 1.846E-05 |
| **Total Offsite Project Exhaust Emissions (grams/sec)** | **6.467E-06** |

| | |
|---|---|
| **Onsite Exhaust Emissions (tons/year)** | 2.200E-03 |
| **Total Onsite Emissions (tons/year)** | 2.200E-03 |
| **Onsite Exhaust Emissions (g/m2-sec)** | **2.792E-08** |

| | |
|---|---|
| **Total PM@10 Exhaust (tons/year)** | 2.218E-03 |

## Moss Street

**Tier IV mitigation**

**Construction Annual DPM Emissions ( as PM10 Exhaust)**

| **Construction Scheduling** | **2020** | |
|---|---|---|
| | 8 | hours/day |
| | 5 | days/week |
| | 48 | weeks/year |
| | 1920 | hours/year |

**Onsite Construction Area Source Size (m2):** 27603.90

**Onsite Construction PM10 Emissions**

| **2020** | | **Onsite** | **Onsite** | **Onsite DPM** |
|---|---|---|---|---|
| | **Construction Activity** | **Annual DPM** | **Annual DPM** | **Source Exhaust** |
| | | **Exhaust Emissions** | **Exhaust Emissions** | **Emissions** |
| | | **(tons/year)** | **(g/sec)** | **(g/m2-sec)** |
| | Building Construction | 4.140E-03 | 5.439E-04 | 1.970E-08 |
| | Paving | 3.700E-04 | 4.861E-05 | 1.761E-09 |
| | Architectural Coating | 6.000E-05 | 7.882E-06 | 2.855E-10 |
| | **Total** | **4.570E-03** | **6.003E-04** | **2.175E-08** |

**Offsite Construction Vehicle PM10 Emissions**

| **2020** | | **Offsite Hauling** | **Offsite Vendor** | **Offsite Workers** | |
|---|---|---|---|---|---|
| | | **Annual DPM** | **Annual DPM** | **Annual DPM** | |
| | **Construction Activity** | **Exhaust Emissions** | **Exhaust Emissions** | **Exhaust Emissions** | |
| | | **(tons/year)** | **(tons/year)** | **(tons/year)** | |
| | Building Construction | 0.000E+00 | 2.260E-03 | 9.700E-04 | |
| | Paving | 0.000E+00 | 0.000E+00 | 1.000E-05 | |
| | Architectural Coating | 0.000E+00 | 0.000E+00 | 3.000E-05 | |
| | **Total (tons/year)** | **0.000E+00** | **2.260E-03** | **1.010E-03** | **3.270E-03** |
| | Trip Distance assumed in CalEEMod (mi) | 20.0 | 7.3 | 10.8 | |
| | Offsite Project Trip Distance Project>I5 (mi) | 0.21 | 0.21 | 0.21 | |
| | **Offsite Project Emissions** Project>Dry Creek Rd>US101 (tons/year) | **0.000E+00** | **6.597E-05** | **1.993E-05** | |

| | |
|---|---|
| **Emissions Along Roadway Segment** | |
| **Offsite Project Exhaust Emissions (tons/year)** | **8.589E-05** |
| **Offsite Project Exhaust Emissions (grams/sec)** | **1.128E-05** |

| | |
|---|---|
| **Onsite Exhaust Emissions (tons/year)** | **4.570E-03** |
| **Total Onsite Emissions (tons/year)** | **4.570E-03** |
| **Onsite Exhaust Emissions (g/m2-sec)** | **2.175E-08** |

| | |
|---|---|
| **Total PM@10 Exhaust (tons/year)** | 4.656E-03 |
| **Total PM10 (tons/year)** | **4.656E-03** |

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*   AERMOD ( 1808 1): C:\Users\x li\Desktop\34 26.0024 Mos s Street\ constru ction HR
*   AERMET ( 1413 4):
*   MODELING OPTI ONS USED:  Re gDFAULT  CONC ELEV  URB AN
*   PLOT FILE OF ANNUAL VALUES AVERA GED ACROSS 5 YEARS FOR SO URCE GRO
*   FOR A TOTAL OF  38 9 RECEPTORS.
*   FORMA T: (3(1X,F13.5 ),3(1X,F8.2), 2X,A6,2X,A8 ,2X,I8.8, 2X,A8)
*   X Y AVERAGE CONC ZELEV ZHILL ZFLAG AVE
*
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|---|---|---|---|---|---|---|
| 491856.94 | 3608423.76 | 631633.5918 | 9.85 | 9.85 | 0 | ANNUAL |
| 491770.82 | 3608296.56 | 83768.45212 | 8.75 | 8.75 | 0 | ANNUAL |
| 491786.69 | 3608300.4 | 169029.1196 | 8.95 | 8.95 | 0 | ANNUAL |
| 491777.07 | 3608270.58 | 37629.84601 | 8.83 | 8.83 | 0 | ANNUAL |
| 491794.39 | 3608275.87 | 71537.09153 | 9.05 | 9.05 | 0 | ANNUAL |
| 491789.88 | 3608254.44 | 30952.91267 | 8.99 | 8.99 | 0 | ANNUAL |
| 491793.88 | 3608239.79 | 22440.86907 | 9.04 | 9.04 | 0 | ANNUAL |
| 491796.54 | 3608225.81 | 16889.37505 | 9.08 | 9.08 | 0 | ANNUAL |
| 491799.2 | 3608213.16 | 13520.08898 | 9.11 | 9.11 | 0 | ANNUAL |
| 491804.53 | 3608198.51 | 11109.97723 | 9.18 | 9.18 | 0 | ANNUAL |
| 491835.16 | 3608317.03 | 396533.5888 | 9.57 | 9.57 | 0 | ANNUAL |
| 491837.82 | 3608303.71 | 271820.1418 | 9.6 | 9.6 | 0 | ANNUAL |
| 491843.81 | 3608287.73 | 172647.9047 | 9.68 | 9.68 | 0 | ANNUAL |
| 491851.14 | 3608274.41 | 123009.1203 | 9.78 | 9.78 | 0 | ANNUAL |
| 491863.07 | 3608247.22 | 66875.79104 | 9.93 | 9.93 | 0 | ANNUAL |
| 491867.68 | 3608231.55 | 48552.36905 | 9.99 | 9.99 | 0 | ANNUAL |
| 491875.05 | 3608218.65 | 39141.4192 | 10.08 | 10.08 | 0 | ANNUAL |
| 491878.74 | 3608195.61 | 25762.88386 | 10.13 | 10.13 | 0 | ANNUAL |
| 491885.19 | 3608177.18 | 19590.4194 | 10.21 | 10.21 | 0 | ANNUAL |
| 491807.78 | 3608183.63 | 8991.73281 | 9.22 | 9.22 | 0 | ANNUAL |
| 491812.39 | 3608167.97 | 7461.70142 | 9.28 | 9.28 | 0 | ANNUAL |
| 491819.76 | 3608146.77 | 6015.00085 | 9.36 | 9.36 | 0 | ANNUAL |
| 491840.03 | 3608155.06 | 8586.85941 | 9.63 | 9.63 | 0 | ANNUAL |
| 491868.6 | 3608170.73 | 15061.64567 | 10 | 10 | 0 | ANNUAL |
| 491865.26 | 3608414.36 | 589528.9513 | 9.95 | 9.95 | 0 | ANNUAL |
| 491867.52 | 3608403.04 | 603276.5021 | 9.98 | 9.98 | 0 | ANNUAL |
| 491872.05 | 3608392.29 | 591456.4074 | 10.04 | 10.04 | 0 | ANNUAL |
| 491874.88 | 3608377.58 | 597304.6585 | 10.08 | 10.08 | 0 | ANNUAL |
| 491886.76 | 3608431.91 | 388718.8886 | 10.23 | 10.23 | 0 | ANNUAL |
| 491890.73 | 3608422.29 | 390103.9893 | 10.28 | 10.28 | 0 | ANNUAL |
| 491896.39 | 3608409.84 | 385911.6877 | 10.35 | 10.35 | 0 | ANNUAL |
| 491900.35 | 3608397.38 | 386378.606 | 10.4 | 10.4 | 0 | ANNUAL |
| 491903.74 | 3608384.93 | 384883.2425 | 10.45 | 10.45 | 0 | ANNUAL |
| 491912.8 | 3608444.92 | 257671.8221 | 10.56 | 10.56 | 0 | ANNUAL |
| 491917.89 | 3608432.47 | 263360.5712 | 10.63 | 10.63 | 0 | ANNUAL |
| 491921.29 | 3608418.89 | 272794.7326 | 10.67 | 10.67 | 0 | ANNUAL |
| 491926.95 | 3608408.14 | 268804.5308 | 10.74 | 10.74 | 0 | ANNUAL |
| 491930.91 | 3608396.25 | 268530.5384 | 10.79 | 10.79 | 0 | ANNUAL |
| 491950.72 | 3608425.12 | 194646.6309 | 11.05 | 11.05 | 0 | ANNUAL |

| | | | | | | |
|---|---|---|---|---|---|---|
| 491954.11 | 3608416.06 | 196618.6307 | 11.09 | 11.09 | 0 | ANNUAL |
| 491959.21 | 3608404.74 | 195737.5449 | 11.16 | 11.16 | 0 | ANNUAL |
| 491984.11 | 3608467.56 | 110109.8527 | 11.47 | 11.47 | 0 | ANNUAL |
| 491987.5 | 3608453.98 | 118307.1477 | 11.52 | 11.52 | 0 | ANNUAL |
| 491993.16 | 3608442.66 | 121481.4834 | 11.59 | 11.59 | 0 | ANNUAL |
| 491998.26 | 3608432.47 | 123421.6186 | 11.66 | 11.66 | 0 | ANNUAL |
| 492002.22 | 3608421.15 | 126246.5201 | 11.71 | 11.71 | 0 | ANNUAL |
| 492012.41 | 3608475.49 | 83621.49564 | 11.84 | 11.84 | 0 | ANNUAL |
| 492015.24 | 3608463.6 | 89538.12932 | 11.87 | 11.87 | 0 | ANNUAL |
| 492020.9 | 3608451.15 | 93343.85437 | 11.94 | 11.94 | 0 | ANNUAL |
| 492024.29 | 3608441.53 | 96373.73261 | 11.99 | 11.99 | 0 | ANNUAL |
| 492028.25 | 3608428.51 | 100102.7559 | 12.04 | 12.04 | 0 | ANNUAL |
| 492037.31 | 3608486.24 | 64997.07485 | 12.15 | 12.15 | 0 | ANNUAL |
| 492042.4 | 3608472.09 | 70003.93619 | 12.22 | 12.22 | 0 | ANNUAL |
| 492046.36 | 3608461.34 | 73396.40947 | 12.27 | 12.27 | 0 | ANNUAL |
| 492050.89 | 3608450.58 | 76111.04301 | 12.33 | 12.33 | 0 | ANNUAL |
| 492055.42 | 3608440.4 | 78120.56521 | 12.39 | 12.39 | 0 | ANNUAL |
| 492065.61 | 3608493.6 | 51730.61634 | 12.52 | 12.52 | 0 | ANNUAL |
| 492069 | 3608481.15 | 55673.63012 | 12.56 | 12.56 | 0 | ANNUAL |
| 492075.23 | 3608469.26 | 58198.33458 | 12.64 | 12.64 | 0 | ANNUAL |
| 492078.06 | 3608457.38 | 61580.37877 | 12.68 | 12.68 | 0 | ANNUAL |
| 492082.59 | 3608446.62 | 63614.62687 | 12.73 | 12.73 | 0 | ANNUAL |
| 491873.18 | 3608334.56 | 510026.4393 | 10.06 | 10.06 | 0 | ANNUAL |
| 491929.78 | 3608349.84 | 275582.9614 | 10.78 | 10.78 | 0 | ANNUAL |
| 491879.97 | 3608317.02 | 336657.7205 | 10.14 | 10.14 | 0 | ANNUAL |
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| 491599.63 | 3607983.94 | 423.43448 | 5.56 | 5.56 | 0 | ANNUAL |
| 491623.59 | 3607979.33 | 437.88119 | 5.87 | 5.87 | 0 | ANNUAL |

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** CONCUNIT ug/ m^3

** DEPUNIT g/m^ 2

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| AREA | 5 | 491651.85 | 3608772.27 |
| AREA | 5 | 491635.26 | 3608823.29 |

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| AREA | 5 | 491603.37 | 3608829.67 |
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| AREA | 5 | 491820.23 | 3608904.93 |
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| AREA | 5 | 491817.68 | 3608940.65 |
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| AREA | 5 | 491903.14 | 3608874.32 |
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| AREA | 5 | 491923.55 | 3608947.03 |
| AREA | 5 | 491945.24 | 3608961.06 |
| AREA | 5 | 491737.31 | 3608925.34 |

** CONCUNIT ug/ m^3

** DEPUNIT g/m^ 2

li\Desktop\34 26.0024 Mos s Street\ constru ction HR A\construc 2-Jan 12:24

gDFAULT CONC ELEV URB AN
VALUES AVERA GED ACROSS 5 YEARS FOR SO URCE GRO UP: LINE
9 RECEPTORS.
),3(1X,F8.2), 2X,A6,2X,A8 ,2X,I8.8, 2X,A8)

| AVERAGE CONC | ZELEV | ZHILL | ZFLAG | AVE | GRP | NUM YRS | NET ID |
|---|---|---|---|---|---|---|---|
| 2.71215 | 9.85 | 9.85 | 0 | ANNUAL | LINE | | 5 |
| 40.63129 | 8.75 | 8.75 | 0 | ANNUAL | LINE | | 5 |
| 37.16311 | 8.95 | 8.95 | 0 | ANNUAL | LINE | | 5 |
| 18.63654 | 8.83 | 8.83 | 0 | ANNUAL | LINE | | 5 |
| 18.30192 | 9.05 | 9.05 | 0 | ANNUAL | LINE | | 5 |
| 11.83867 | 8.99 | 8.99 | 0 | ANNUAL | LINE | | 5 |
| 8.50172 | 9.04 | 9.04 | 0 | ANNUAL | LINE | | 5 |
| 6.29229 | 9.08 | 9.08 | 0 | ANNUAL | LINE | | 5 |
| 4.82803 | 9.11 | 9.11 | 0 | ANNUAL | LINE | | 5 |
| 3.60052 | 9.18 | 9.18 | 0 | ANNUAL | LINE | | 5 |
| 17.47807 | 9.57 | 9.57 | 0 | ANNUAL | LINE | | 5 |
| 16.36569 | 9.6 | 9.6 | 0 | ANNUAL | LINE | | 5 |
| 13.10984 | 9.68 | 9.68 | 0 | ANNUAL | LINE | | 5 |
| 10.45869 | 9.78 | 9.78 | 0 | ANNUAL | LINE | | 5 |
| 6.89013 | 9.93 | 9.93 | 0 | ANNUAL | LINE | | 5 |
| 5.50992 | 9.99 | 9.99 | 0 | ANNUAL | LINE | | 5 |
| 4.51933 | 10.08 | 10.08 | 0 | ANNUAL | LINE | | 5 |
| 3.29514 | 10.13 | 10.13 | 0 | ANNUAL | LINE | | 5 |
| 2.54421 | 10.21 | 10.21 | 0 | ANNUAL | LINE | | 5 |
| 2.70752 | 9.22 | 9.22 | 0 | ANNUAL | LINE | | 5 |
| 2.04387 | 9.28 | 9.28 | 0 | ANNUAL | LINE | | 5 |
| 1.44327 | 9.36 | 9.36 | 0 | ANNUAL | LINE | | 5 |
| 1.76573 | 9.63 | 9.63 | 0 | ANNUAL | LINE | | 5 |
| 2.33746 | 10 | 10 | 0 | ANNUAL | LINE | | 5 |
| 2.83789 | 9.95 | 9.95 | 0 | ANNUAL | LINE | | 5 |
| 3.15933 | 9.98 | 9.98 | 0 | ANNUAL | LINE | | 5 |
| 3.45016 | 10.04 | 10.04 | 0 | ANNUAL | LINE | | 5 |
| 4.03201 | 10.08 | 10.08 | 0 | ANNUAL | LINE | | 5 |
| 2.05662 | 10.23 | 10.23 | 0 | ANNUAL | LINE | | 5 |
| 2.21408 | 10.28 | 10.28 | 0 | ANNUAL | LINE | | 5 |
| 2.4267 | 10.35 | 10.35 | 0 | ANNUAL | LINE | | 5 |
| 2.6929 | 10.4 | 10.4 | 0 | ANNUAL | LINE | | 5 |
| 3.01035 | 10.45 | 10.45 | 0 | ANNUAL | LINE | | 5 |
| 1.56146 | 10.56 | 10.56 | 0 | ANNUAL | LINE | | 5 |
| 1.71251 | 10.63 | 10.63 | 0 | ANNUAL | LINE | | 5 |
| 1.91468 | 10.67 | 10.67 | 0 | ANNUAL | LINE | | 5 |
| 2.05708 | 10.74 | 10.74 | 0 | ANNUAL | LINE | | 5 |
| 2.25717 | 10.79 | 10.79 | 0 | ANNUAL | LINE | | 5 |
| 1.5442 | 11.05 | 11.05 | 0 | ANNUAL | LINE | | 5 |

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|---|---|---|---|---|---|---|
| 1.64752 | 11.09 | 11.09 | 0 | ANNUAL | LINE | 5 |
| 1.7769 | 11.16 | 11.16 | 0 | ANNUAL | LINE | 5 |
| 0.91756 | 11.47 | 11.47 | 0 | ANNUAL | LINE | 5 |
| 1.01343 | 11.52 | 11.52 | 0 | ANNUAL | LINE | 5 |
| 1.08708 | 11.59 | 11.59 | 0 | ANNUAL | LINE | 5 |
| 1.15656 | 11.66 | 11.66 | 0 | ANNUAL | LINE | 5 |
| 1.24684 | 11.71 | 11.71 | 0 | ANNUAL | LINE | 5 |
| 0.77086 | 11.84 | 11.84 | 0 | ANNUAL | LINE | 5 |
| 0.83799 | 11.87 | 11.87 | 0 | ANNUAL | LINE | 5 |
| 0.90443 | 11.94 | 11.94 | 0 | ANNUAL | LINE | 5 |
| 0.96222 | 11.99 | 11.99 | 0 | ANNUAL | LINE | 5 |
| 1.04776 | 12.04 | 12.04 | 0 | ANNUAL | LINE | 5 |
| 0.64922 | 12.15 | 12.15 | 0 | ANNUAL | LINE | 5 |
| 0.70953 | 12.22 | 12.22 | 0 | ANNUAL | LINE | 5 |
| 0.75843 | 12.27 | 12.27 | 0 | ANNUAL | LINE | 5 |
| 0.80837 | 12.33 | 12.33 | 0 | ANNUAL | LINE | 5 |
| 0.85687 | 12.39 | 12.39 | 0 | ANNUAL | LINE | 5 |
| 0.56015 | 12.52 | 12.52 | 0 | ANNUAL | LINE | 5 |
| 0.60579 | 12.56 | 12.56 | 0 | ANNUAL | LINE | 5 |
| 0.646 | 12.64 | 12.64 | 0 | ANNUAL | LINE | 5 |
| 0.69626 | 12.68 | 12.68 | 0 | ANNUAL | LINE | 5 |
| 0.73928 | 12.73 | 12.73 | 0 | ANNUAL | LINE | 5 |
| 7.44433 | 10.06 | 10.06 | 0 | ANNUAL | LINE | 5 |
| 3.59829 | 10.78 | 10.78 | 0 | ANNUAL | LINE | 5 |
| 7.99283 | 10.14 | 10.14 | 0 | ANNUAL | LINE | 5 |
| 7.09578 | 10.31 | 10.31 | 0 | ANNUAL | LINE | 5 |
| 7.41382 | 10.27 | 10.27 | 0 | ANNUAL | LINE | 5 |
| 6.01035 | 10.49 | 10.49 | 0 | ANNUAL | LINE | 5 |
| 4.98056 | 10.53 | 10.53 | 0 | ANNUAL | LINE | 5 |
| 4.3267 | 10.59 | 10.59 | 0 | ANNUAL | LINE | 5 |
| 3.72852 | 10.66 | 10.66 | 0 | ANNUAL | LINE | 5 |
| 3.15801 | 10.71 | 10.71 | 0 | ANNUAL | LINE | 5 |
| 2.68938 | 10.69 | 10.69 | 0 | ANNUAL | LINE | 5 |
| 2.31799 | 10.83 | 10.83 | 0 | ANNUAL | LINE | 5 |
| 3.92068 | 10.87 | 10.87 | 0 | ANNUAL | LINE | 5 |
| 4.13765 | 10.99 | 10.99 | 0 | ANNUAL | LINE | 5 |
| 4.1747 | 11.02 | 11.02 | 0 | ANNUAL | LINE | 5 |
| 3.92112 | 11.1 | 11.1 | 0 | ANNUAL | LINE | 5 |
| 3.44176 | 11.24 | 11.24 | 0 | ANNUAL | LINE | 5 |
| 3.2761 | 11.17 | 11.17 | 0 | ANNUAL | LINE | 5 |
| 2.85414 | 11.34 | 11.34 | 0 | ANNUAL | LINE | 5 |
| 2.57399 | 11.23 | 11.23 | 0 | ANNUAL | LINE | 5 |
| 2.21423 | 11.52 | 11.52 | 0 | ANNUAL | LINE | 5 |
| 2.25235 | 11.37 | 11.37 | 0 | ANNUAL | LINE | 5 |
| 2.4227 | 11.43 | 11.43 | 0 | ANNUAL | LINE | 5 |
| 2.55377 | 11.53 | 11.53 | 0 | ANNUAL | LINE | 5 |
| 2.73973 | 11.57 | 11.57 | 0 | ANNUAL | LINE | 5 |

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|---|---|---|---|---|---|---|
| 2.77387 | 11.69 | 11.69 | 0 | ANNUAL | LINE | 5 |
| 2.72184 | 11.76 | 11.76 | 0 | ANNUAL | LINE | 5 |
| 2.61058 | 11.85 | 11.85 | 0 | ANNUAL | LINE | 5 |
| 2.56586 | 11.85 | 11.85 | 0 | ANNUAL | LINE | 5 |
| 2.30116 | 12.04 | 12.04 | 0 | ANNUAL | LINE | 5 |
| 2.28757 | 11.92 | 11.92 | 0 | ANNUAL | LINE | 5 |
| 1.92083 | 12.26 | 12.26 | 0 | ANNUAL | LINE | 5 |
| 1.43445 | 12.08 | 12.08 | 0 | ANNUAL | LINE | 5 |
| 1.55699 | 12.14 | 12.14 | 0 | ANNUAL | LINE | 5 |
| 1.81736 | 12.02 | 12.02 | 0 | ANNUAL | LINE | 5 |
| 1.75203 | 12.27 | 12.27 | 0 | ANNUAL | LINE | 5 |
| 1.94963 | 12.2 | 12.2 | 0 | ANNUAL | LINE | 5 |
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| 1.94735 | 12.47 | 12.47 | 0 | ANNUAL | LINE | 5 |
| 1.76457 | 12.68 | 12.68 | 0 | ANNUAL | LINE | 5 |
| 1.71233 | 12.7 | 12.7 | 0 | ANNUAL | LINE | 5 |
| 1.11315 | 12.57 | 12.57 | 0 | ANNUAL | LINE | 5 |
| 1.22143 | 12.65 | 12.65 | 0 | ANNUAL | LINE | 5 |
| 1.25216 | 12.77 | 12.77 | 0 | ANNUAL | LINE | 5 |
| 0.89809 | 12.98 | 12.98 | 0 | ANNUAL | LINE | 5 |
| 0.7854 | 13.33 | 13.33 | 0 | ANNUAL | LINE | 5 |
| 1.26584 | 12.9 | 12.9 | 0 | ANNUAL | LINE | 5 |
| 1.37757 | 12.88 | 12.88 | 0 | ANNUAL | LINE | 5 |
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| 1.44695 | 12.98 | 12.98 | 0 | ANNUAL | LINE | 5 |
| 1.43698 | 13.22 | 13.22 | 0 | ANNUAL | LINE | 5 |
| 1.46755 | 13.04 | 13.04 | 0 | ANNUAL | LINE | 5 |
| 1.15696 | 13.83 | 13.83 | 0 | ANNUAL | LINE | 5 |
| 0.82048 | 9.09 | 9.09 | 0 | ANNUAL | LINE | 5 |
| 1.01929 | 9.46 | 9.46 | 0 | ANNUAL | LINE | 5 |
| 1.19844 | 9.83 | 9.83 | 0 | ANNUAL | LINE | 5 |
| 1.34443 | 10.27 | 10.27 | 0 | ANNUAL | LINE | 5 |
| 0.68642 | 8.99 | 8.99 | 0 | ANNUAL | LINE | 5 |
| 0.95334 | 9.7 | 9.7 | 0 | ANNUAL | LINE | 5 |
| 1.19114 | 10.3 | 10.3 | 0 | ANNUAL | LINE | 5 |
| 0.96262 | 10.25 | 10.25 | 0 | ANNUAL | LINE | 5 |
| 0.79462 | 9.69 | 9.69 | 0 | ANNUAL | LINE | 5 |
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| 0.54139 | 9.19 | 9.19 | 0 | ANNUAL | LINE | 5 |
| 0.6769 | 10.14 | 10.14 | 0 | ANNUAL | LINE | 5 |
| 0.59639 | 10.35 | 10.35 | 0 | ANNUAL | LINE | 5 |
| 0.49036 | 10.34 | 10.34 | 0 | ANNUAL | LINE | 5 |
| 0.35189 | 8.85 | 8.85 | 0 | ANNUAL | LINE | 5 |

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| 0.21562 | 9.1 | 9.1 | 0 | ANNUAL | LINE | 5 |
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| 1.58326 | 10.84 | 10.84 | 0 | ANNUAL | LINE | 5 |
| 1.72935 | 11.18 | 11.18 | 0 | ANNUAL | LINE | 5 |
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| 1.06121 | 11.91 | 11.91 | 0 | ANNUAL | LINE | 5 |
| 0.88806 | 11.11 | 11.11 | 0 | ANNUAL | LINE | 5 |
| 0.65486 | 11.22 | 11.22 | 0 | ANNUAL | LINE | 5 |
| 0.67462 | 11.49 | 11.49 | 0 | ANNUAL | LINE | 5 |
| 0.74218 | 12.09 | 12.09 | 0 | ANNUAL | LINE | 5 |
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| 0.48467 | 11.08 | 11.08 | 0 | ANNUAL | LINE | 5 |
| 0.40747 | 10.96 | 10.96 | 0 | ANNUAL | LINE | 5 |
| 0.49104 | 11.84 | 11.84 | 0 | ANNUAL | LINE | 5 |
| 0.42857 | 11.71 | 11.71 | 0 | ANNUAL | LINE | 5 |
| 0.35545 | 10.96 | 10.96 | 0 | ANNUAL | LINE | 5 |
| 1.63629 | 12.17 | 12.17 | 0 | ANNUAL | LINE | 5 |
| 1.43556 | 12.29 | 12.29 | 0 | ANNUAL | LINE | 5 |
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| 1.33609 | 12.9 | 12.9 | 0 | ANNUAL | LINE | 5 |
| 1.13753 | 12.37 | 12.37 | 0 | ANNUAL | LINE | 5 |
| 1.13313 | 13.08 | 13.08 | 0 | ANNUAL | LINE | 5 |
| 0.95426 | 12.43 | 12.43 | 0 | ANNUAL | LINE | 5 |
| 0.9276 | 13.26 | 13.26 | 0 | ANNUAL | LINE | 5 |
| 0.81189 | 13.41 | 13.41 | 0 | ANNUAL | LINE | 5 |
| 0.72072 | 12.65 | 12.65 | 0 | ANNUAL | LINE | 5 |
| 0.55127 | 12.49 | 12.49 | 0 | ANNUAL | LINE | 5 |
| 0.6806 | 13.47 | 13.47 | 0 | ANNUAL | LINE | 5 |
| 1.27558 | 13.47 | 13.47 | 0 | ANNUAL | LINE | 5 |
| 1.08028 | 14.03 | 14.03 | 0 | ANNUAL | LINE | 5 |
| 1.2037 | 13.51 | 13.51 | 0 | ANNUAL | LINE | 5 |
| 1.01145 | 14.17 | 14.17 | 0 | ANNUAL | LINE | 5 |
| 0.94695 | 14.28 | 14.28 | 0 | ANNUAL | LINE | 5 |
| 1.03352 | 13.62 | 13.62 | 0 | ANNUAL | LINE | 5 |
| 0.91938 | 14.21 | 14.21 | 0 | ANNUAL | LINE | 5 |
| 0.93915 | 13.71 | 13.71 | 0 | ANNUAL | LINE | 5 |
| 0.86053 | 13.79 | 13.79 | 0 | ANNUAL | LINE | 5 |
| 0.80792 | 14.49 | 14.49 | 0 | ANNUAL | LINE | 5 |
| 0.73113 | 14.54 | 14.54 | 0 | ANNUAL | LINE | 5 |
| 0.67306 | 14.65 | 14.65 | 0 | ANNUAL | LINE | 5 |
| 0.76825 | 13.86 | 13.86 | 0 | ANNUAL | LINE | 5 |
| 0.68315 | 13.99 | 13.99 | 0 | ANNUAL | LINE | 5 |
| 0.60414 | 14.03 | 14.03 | 0 | ANNUAL | LINE | 5 |

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| 0.60903 | 14.48 | 14.48 | 0 | ANNUAL | LINE | 5 |
| 0.84615 | 14.83 | 14.83 | 0 | ANNUAL | LINE | 5 |
| 0.86205 | 14.74 | 14.74 | 0 | ANNUAL | LINE | 5 |
| 0.84196 | 14.77 | 14.77 | 0 | ANNUAL | LINE | 5 |
| 0.808 | 14.83 | 14.83 | 0 | ANNUAL | LINE | 5 |
| 0.76159 | 14.98 | 14.98 | 0 | ANNUAL | LINE | 5 |
| 0.72336 | 15.02 | 15.02 | 0 | ANNUAL | LINE | 5 |
| 0.67343 | 15.09 | 15.09 | 0 | ANNUAL | LINE | 5 |
| 0.63341 | 15.16 | 15.16 | 0 | ANNUAL | LINE | 5 |
| 0.59758 | 15.24 | 15.24 | 0 | ANNUAL | LINE | 5 |
| 0.56237 | 15.33 | 15.33 | 0 | ANNUAL | LINE | 5 |
| 0.95379 | 7.66 | 7.66 | 0 | ANNUAL | LINE | 5 |
| 0.68053 | 7.68 | 7.68 | 0 | ANNUAL | LINE | 5 |
| 0.57313 | 7.59 | 7.59 | 0 | ANNUAL | LINE | 5 |
| 0.49193 | 7.49 | 7.49 | 0 | ANNUAL | LINE | 5 |
| 0.42458 | 7.39 | 7.39 | 0 | ANNUAL | LINE | 5 |
| 0.37342 | 7.3 | 7.3 | 0 | ANNUAL | LINE | 5 |
| 0.32522 | 7.19 | 7.19 | 0 | ANNUAL | LINE | 5 |
| 0.30182 | 7.18 | 7.18 | 0 | ANNUAL | LINE | 5 |
| 0.26913 | 7.07 | 7.07 | 0 | ANNUAL | LINE | 5 |
| 0.24322 | 7.11 | 7.11 | 0 | ANNUAL | LINE | 5 |
| 0.18861 | 7.26 | 7.26 | 0 | ANNUAL | LINE | 5 |
| 0.17194 | 7.29 | 7.29 | 0 | ANNUAL | LINE | 5 |
| 0.15735 | 7.29 | 7.29 | 0 | ANNUAL | LINE | 5 |
| 0.14774 | 7.41 | 7.41 | 0 | ANNUAL | LINE | 5 |
| 0.13494 | 7.45 | 7.45 | 0 | ANNUAL | LINE | 5 |
| 0.12526 | 7.55 | 7.55 | 0 | ANNUAL | LINE | 5 |
| 0.11385 | 7.6 | 7.6 | 0 | ANNUAL | LINE | 5 |
| 0.61405 | 7.03 | 7.03 | 0 | ANNUAL | LINE | 5 |
| 0.50736 | 6.8 | 6.8 | 0 | ANNUAL | LINE | 5 |
| 0.42946 | 6.49 | 6.49 | 0 | ANNUAL | LINE | 5 |
| 0.35221 | 6.14 | 6.14 | 0 | ANNUAL | LINE | 5 |
| 0.32156 | 5.95 | 5.95 | 0 | ANNUAL | LINE | 5 |
| 0.2718 | 5.63 | 5.63 | 0 | ANNUAL | LINE | 5 |
| 0.4194 | 6.94 | 6.94 | 0 | ANNUAL | LINE | 5 |
| 0.5141 | 7.21 | 7.21 | 0 | ANNUAL | LINE | 5 |
| 0.36746 | 6.85 | 6.85 | 0 | ANNUAL | LINE | 5 |
| 0.32912 | 6.79 | 6.79 | 0 | ANNUAL | LINE | 5 |
| 0.3411 | 6.93 | 6.93 | 0 | ANNUAL | LINE | 5 |
| 0.31991 | 6.93 | 6.93 | 0 | ANNUAL | LINE | 5 |
| 0.28186 | 6.84 | 6.84 | 0 | ANNUAL | LINE | 5 |
| 0.28068 | 6.62 | 6.62 | 0 | ANNUAL | LINE | 5 |
| 0.27 | 6.65 | 6.65 | 0 | ANNUAL | LINE | 5 |
| 0.23991 | 6.56 | 6.56 | 0 | ANNUAL | LINE | 5 |
| 0.22037 | 6.57 | 6.57 | 0 | ANNUAL | LINE | 5 |
| 0.23929 | 6.73 | 6.73 | 0 | ANNUAL | LINE | 5 |
| 0.20522 | 6.79 | 6.79 | 0 | ANNUAL | LINE | 5 |

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|---|---|---|---|---|---|---|
| 0.18973 | 6.87 | 6.87 | 0 | ANNUAL | LINE | 5 |
| 0.38106 | 6.58 | 6.58 | 0 | ANNUAL | LINE | 5 |
| 0.3492 | 6.41 | 6.41 | 0 | ANNUAL | LINE | 5 |
| 0.31999 | 6.22 | 6.22 | 0 | ANNUAL | LINE | 5 |
| 0.28739 | 5.99 | 5.99 | 0 | ANNUAL | LINE | 5 |
| 0.27053 | 5.86 | 5.86 | 0 | ANNUAL | LINE | 5 |
| 0.24793 | 5.64 | 5.64 | 0 | ANNUAL | LINE | 5 |
| 0.21986 | 5.38 | 5.38 | 0 | ANNUAL | LINE | 5 |
| 0.20076 | 5.31 | 5.31 | 0 | ANNUAL | LINE | 5 |
| 0.21644 | 5.5 | 5.5 | 0 | ANNUAL | LINE | 5 |
| 0.23709 | 5.73 | 5.73 | 0 | ANNUAL | LINE | 5 |
| 0.26452 | 5.97 | 5.97 | 0 | ANNUAL | LINE | 5 |
| 0.28675 | 6.19 | 6.19 | 0 | ANNUAL | LINE | 5 |
| 0.31637 | 6.41 | 6.41 | 0 | ANNUAL | LINE | 5 |
| 0.2525 | 6.19 | 6.19 | 0 | ANNUAL | LINE | 5 |
| 0.22558 | 5.9 | 5.9 | 0 | ANNUAL | LINE | 5 |
| 0.22214 | 6.08 | 6.08 | 0 | ANNUAL | LINE | 5 |
| 0.23548 | 6.27 | 6.27 | 0 | ANNUAL | LINE | 5 |
| 0.16037 | 5.16 | 5.16 | 0 | ANNUAL | LINE | 5 |
| 0.14559 | 5.01 | 5.01 | 0 | ANNUAL | LINE | 5 |
| 0.14698 | 5.22 | 5.22 | 0 | ANNUAL | LINE | 5 |
| 0.17577 | 5.49 | 5.49 | 0 | ANNUAL | LINE | 5 |
| 0.15714 | 5.43 | 5.43 | 0 | ANNUAL | LINE | 5 |
| 0.17041 | 5.68 | 5.68 | 0 | ANNUAL | LINE | 5 |
| 0.15465 | 5.73 | 5.73 | 0 | ANNUAL | LINE | 5 |
| 0.17932 | 5.89 | 5.89 | 0 | ANNUAL | LINE | 5 |
| 0.16872 | 6.03 | 6.03 | 0 | ANNUAL | LINE | 5 |
| 0.17328 | 6.26 | 6.26 | 0 | ANNUAL | LINE | 5 |
| 0.14986 | 6.13 | 6.13 | 0 | ANNUAL | LINE | 5 |
| 0.16255 | 6.43 | 6.43 | 0 | ANNUAL | LINE | 5 |
| 0.1456 | 6.7 | 6.7 | 0 | ANNUAL | LINE | 5 |
| 0.12538 | 6.61 | 6.61 | 0 | ANNUAL | LINE | 5 |
| 0.1415 | 6.91 | 6.91 | 0 | ANNUAL | LINE | 5 |
| 0.12953 | 7.02 | 7.02 | 0 | ANNUAL | LINE | 5 |
| 0.12042 | 7.18 | 7.18 | 0 | ANNUAL | LINE | 5 |
| 0.11043 | 6.99 | 6.99 | 0 | ANNUAL | LINE | 5 |
| 0.10966 | 7.22 | 7.22 | 0 | ANNUAL | LINE | 5 |
| 0.10089 | 7.04 | 7.04 | 0 | ANNUAL | LINE | 5 |
| 0.09521 | 7.17 | 7.17 | 0 | ANNUAL | LINE | 5 |
| 0.10112 | 7.33 | 7.33 | 0 | ANNUAL | LINE | 5 |
| 0.08948 | 7.3 | 7.3 | 0 | ANNUAL | LINE | 5 |
| 0.12114 | 5.03 | 5.03 | 0 | ANNUAL | LINE | 5 |
| 0.11796 | 5.3 | 5.3 | 0 | ANNUAL | LINE | 5 |
| 0.1266 | 5.51 | 5.51 | 0 | ANNUAL | LINE | 5 |
| 0.12513 | 5.74 | 5.74 | 0 | ANNUAL | LINE | 5 |
| 0.11194 | 5.56 | 5.56 | 0 | ANNUAL | LINE | 5 |
| 0.11409 | 5.87 | 5.87 | 0 | ANNUAL | LINE | 5 |

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|---|---|---|---|---|---|---|
| 0.12094 | 6.08 | 6.08 | 0 | ANNUAL | LINE | 5 |
| 0.11369 | 6.34 | 6.34 | 0 | ANNUAL | LINE | 5 |
| 0.10173 | 6.24 | 6.24 | 0 | ANNUAL | LINE | 5 |
| 0.10432 | 6.49 | 6.49 | 0 | ANNUAL | LINE | 5 |
| 0.09695 | 6.52 | 6.52 | 0 | ANNUAL | LINE | 5 |
| 0.0897 | 6.27 | 6.27 | 0 | ANNUAL | LINE | 5 |
| 0.08923 | 6.67 | 6.67 | 0 | ANNUAL | LINE | 5 |
| 0.08368 | 6.42 | 6.42 | 0 | ANNUAL | LINE | 5 |
| 0.078 | 6.37 | 6.37 | 0 | ANNUAL | LINE | 5 |
| 0.08134 | 6.86 | 6.86 | 0 | ANNUAL | LINE | 5 |
| 0.09104 | 5.08 | 5.08 | 0 | ANNUAL | LINE | 5 |
| 0.09175 | 5.24 | 5.24 | 0 | ANNUAL | LINE | 5 |
| 0.08283 | 5.01 | 5.01 | 0 | ANNUAL | LINE | 5 |
| 0.09601 | 5.53 | 5.53 | 0 | ANNUAL | LINE | 5 |
| 0.08613 | 5.25 | 5.25 | 0 | ANNUAL | LINE | 5 |
| 0.08299 | 5.3 | 5.3 | 0 | ANNUAL | LINE | 5 |
| 0.09183 | 5.59 | 5.59 | 0 | ANNUAL | LINE | 5 |
| 0.08695 | 5.7 | 5.7 | 0 | ANNUAL | LINE | 5 |
| 0.07785 | 5.38 | 5.38 | 0 | ANNUAL | LINE | 5 |
| 0.08111 | 5.72 | 5.72 | 0 | ANNUAL | LINE | 5 |
| 0.07132 | 5.46 | 5.46 | 0 | ANNUAL | LINE | 5 |
| 0.07669 | 5.87 | 5.87 | 0 | ANNUAL | LINE | 5 |
| 0.07005 | 5.9 | 5.9 | 0 | ANNUAL | LINE | 5 |
| 0.06677 | 5.45 | 5.45 | 0 | ANNUAL | LINE | 5 |
| 0.07232 | 4.67 | 4.67 | 0 | ANNUAL | LINE | 5 |
| 0.07149 | 4.86 | 4.86 | 0 | ANNUAL | LINE | 5 |
| 0.06604 | 4.57 | 4.57 | 0 | ANNUAL | LINE | 5 |
| 0.06721 | 4.92 | 4.92 | 0 | ANNUAL | LINE | 5 |
| 0.06106 | 4.7 | 4.7 | 0 | ANNUAL | LINE | 5 |
| 0.06223 | 4.91 | 4.91 | 0 | ANNUAL | LINE | 5 |
| 0.20211 | 9.3 | 9.3 | 0 | ANNUAL | LINE | 5 |
| 0.26865 | 10.09 | 10.09 | 0 | ANNUAL | LINE | 5 |
| 0.25537 | 6.74 | 6.74 | 0 | ANNUAL | LINE | 5 |
| 0.22345 | 6.49 | 6.49 | 0 | ANNUAL | LINE | 5 |
| 0.19896 | 6.43 | 6.43 | 0 | ANNUAL | LINE | 5 |
| 0.17032 | 6.11 | 6.11 | 0 | ANNUAL | LINE | 5 |
| 0.1536 | 6.03 | 6.03 | 0 | ANNUAL | LINE | 5 |
| 0.13396 | 5.87 | 5.87 | 0 | ANNUAL | LINE | 5 |
| 0.12516 | 5.83 | 5.83 | 0 | ANNUAL | LINE | 5 |
| 0.10868 | 5.72 | 5.72 | 0 | ANNUAL | LINE | 5 |
| 0.23968 | 7.77 | 7.77 | 0 | ANNUAL | LINE | 5 |
| 0.23355 | 8.22 | 8.22 | 0 | ANNUAL | LINE | 5 |
| 0.19926 | 7.82 | 7.82 | 0 | ANNUAL | LINE | 5 |
| 0.20756 | 7.38 | 7.38 | 0 | ANNUAL | LINE | 5 |
| 0.18774 | 7.11 | 7.11 | 0 | ANNUAL | LINE | 5 |
| 0.1824 | 7.64 | 7.64 | 0 | ANNUAL | LINE | 5 |
| 0.13801 | 7.02 | 7.02 | 0 | ANNUAL | LINE | 5 |

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|---|---|---|---|---|---|---|
| 0.14544 | 6.67 | 6.67 | 0 | ANNUAL | LINE | 5 |
| 0.13187 | 6.6 | 6.6 | 0 | ANNUAL | LINE | 5 |
| 0.12751 | 6.91 | 6.91 | 0 | ANNUAL | LINE | 5 |
| 0.11155 | 6.84 | 6.84 | 0 | ANNUAL | LINE | 5 |
| 0.11431 | 6.44 | 6.44 | 0 | ANNUAL | LINE | 5 |
| 0.10597 | 6.39 | 6.39 | 0 | ANNUAL | LINE | 5 |
| 0.1028 | 6.78 | 6.78 | 0 | ANNUAL | LINE | 5 |
| 0.20753 | 8.91 | 8.91 | 0 | ANNUAL | LINE | 5 |
| 0.18982 | 8.78 | 8.78 | 0 | ANNUAL | LINE | 5 |
| 0.16695 | 8.59 | 8.59 | 0 | ANNUAL | LINE | 5 |
| 0.15457 | 8.39 | 8.39 | 0 | ANNUAL | LINE | 5 |
| 0.13298 | 8.26 | 8.26 | 0 | ANNUAL | LINE | 5 |
| 0.12236 | 8.03 | 8.03 | 0 | ANNUAL | LINE | 5 |
| 0.10986 | 7.9 | 7.9 | 0 | ANNUAL | LINE | 5 |
| 0.09656 | 7.83 | 7.83 | 0 | ANNUAL | LINE | 5 |
| 0.20192 | 9.36 | 9.36 | 0 | ANNUAL | LINE | 5 |
| 0.18683 | 9.27 | 9.27 | 0 | ANNUAL | LINE | 5 |
| 0.16283 | 9.18 | 9.18 | 0 | ANNUAL | LINE | 5 |
| 0.15316 | 9.1 | 9.1 | 0 | ANNUAL | LINE | 5 |
| 0.13521 | 8.97 | 8.97 | 0 | ANNUAL | LINE | 5 |
| 0.12169 | 8.84 | 8.84 | 0 | ANNUAL | LINE | 5 |
| 0.11253 | 8.71 | 8.71 | 0 | ANNUAL | LINE | 5 |
| 0.09935 | 8.65 | 8.65 | 0 | ANNUAL | LINE | 5 |
| 0.18625 | 9.84 | 9.84 | 0 | ANNUAL | LINE | 5 |
| 0.16812 | 9.77 | 9.77 | 0 | ANNUAL | LINE | 5 |
| 0.15217 | 9.64 | 9.64 | 0 | ANNUAL | LINE | 5 |
| 0.14044 | 9.61 | 9.61 | 0 | ANNUAL | LINE | 5 |
| 0.12606 | 9.54 | 9.54 | 0 | ANNUAL | LINE | 5 |
| 0.11604 | 9.44 | 9.44 | 0 | ANNUAL | LINE | 5 |
| 0.10809 | 9.33 | 9.33 | 0 | ANNUAL | LINE | 5 |
| 0.1001 | 9.33 | 9.33 | 0 | ANNUAL | LINE | 5 |
| 0.17405 | 10.18 | 10.18 | 0 | ANNUAL | LINE | 5 |
| 0.15414 | 10.15 | 10.15 | 0 | ANNUAL | LINE | 5 |
| 0.14421 | 9.98 | 9.98 | 0 | ANNUAL | LINE | 5 |
| 0.13287 | 9.97 | 9.97 | 0 | ANNUAL | LINE | 5 |
| 0.12485 | 9.79 | 9.79 | 0 | ANNUAL | LINE | 5 |
| 0.1135 | 9.84 | 9.84 | 0 | ANNUAL | LINE | 5 |
| 0.10568 | 9.77 | 9.77 | 0 | ANNUAL | LINE | 5 |
| 0.09553 | 9.74 | 9.74 | 0 | ANNUAL | LINE | 5 |
| 0.15787 | 10.73 | 10.73 | 0 | ANNUAL | LINE | 5 |
| 0.14361 | 10.7 | 10.7 | 0 | ANNUAL | LINE | 5 |
| 0.13316 | 10.57 | 10.57 | 0 | ANNUAL | LINE | 5 |
| 0.12055 | 10.49 | 10.49 | 0 | ANNUAL | LINE | 5 |
| 0.11337 | 10.42 | 10.42 | 0 | ANNUAL | LINE | 5 |
| 0.10597 | 10.42 | 10.42 | 0 | ANNUAL | LINE | 5 |
| 0.1003 | 10.37 | 10.37 | 0 | ANNUAL | LINE | 5 |
| 0.09309 | 10.36 | 10.36 | 0 | ANNUAL | LINE | 5 |

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|---|---|---|---|---|---|---|
| 0.0874 | 10.34 | 10.34 | 0 | ANNUAL | LINE | 5 |
| 0.13605 | 11.06 | 11.06 | 0 | ANNUAL | LINE | 5 |
| 0.12605 | 10.95 | 10.95 | 0 | ANNUAL | LINE | 5 |
| 0.1159 | 10.88 | 10.88 | 0 | ANNUAL | LINE | 5 |
| 0.1099 | 10.83 | 10.83 | 0 | ANNUAL | LINE | 5 |
| 0.10134 | 10.75 | 10.75 | 0 | ANNUAL | LINE | 5 |
| 0.09528 | 10.85 | 10.85 | 0 | ANNUAL | LINE | 5 |
| 0.08953 | 11.01 | 11.01 | 0 | ANNUAL | LINE | 5 |
| 0.0877 | 11.27 | 11.27 | 0 | ANNUAL | LINE | 5 |
| 0.13148 | 11.6 | 11.6 | 0 | ANNUAL | LINE | 5 |
| 0.12148 | 11.58 | 11.58 | 0 | ANNUAL | LINE | 5 |
| 0.11528 | 11.45 | 11.45 | 0 | ANNUAL | LINE | 5 |
| 0.10735 | 11.43 | 11.43 | 0 | ANNUAL | LINE | 5 |
| 0.09929 | 11.34 | 11.34 | 0 | ANNUAL | LINE | 5 |
| 0.09661 | 11.6 | 11.6 | 0 | ANNUAL | LINE | 5 |
| 0.09379 | 11.86 | 11.86 | 0 | ANNUAL | LINE | 5 |
| 0.08973 | 12.07 | 12.07 | 0 | ANNUAL | LINE | 5 |
| 0.08465 | 12.25 | 12.25 | 0 | ANNUAL | LINE | 5 |
| 0.0816 | 11.69 | 11.69 | 0 | ANNUAL | LINE | 5 |
| 0.07653 | 11.97 | 11.97 | 0 | ANNUAL | LINE | 5 |
| 0.09097 | 9.31 | 9.31 | 0 | ANNUAL | LINE | 5 |

# Moss Street

**2019** **Tier IV mitigation**

**Construction Annual DPM Emissions ( as PM10 Exhaust)**

| X (m) | Y (m) | Onsite Area Source Annual DPM Exhaust w/Unit Emissions (ug/m3) | Onsite Annual DPM Exhaust w/Actual Emissions (ug/m3) | Offsite L1 Annual DPM Exhaust w/Unit Emissions (ug/m3) | Offsite Annual DPM Exhaust w/Actual Emissions (ug/m3) | Total DPM (ug/m3) |
|---|---|---|---|---|---|---|
| 491856.94 | 3608423.76 | 631633.5918 | 0.01763 | 2.71215 | 1.75387E-05 | 0.01765 |
| 491770.82 | 3608296.56 | 83768.45212 | 0.00234 | 40.63129 | 2.62751E-04 | 0.00260 |
| 491786.69 | 3608300.4 | 169029.1196 | 0.00472 | 37.16311 | 2.40324E-04 | 0.00496 |
| 491777.07 | 3608270.58 | 37629.84601 | 0.00105 | 18.63654 | 1.20517E-04 | 0.00117 |
| 491794.39 | 3608275.87 | 71537.09153 | 0.00200 | 18.30192 | 1.18353E-04 | 0.00212 |
| 491789.88 | 3608254.44 | 30952.91267 | 0.00086 | 11.83867 | 7.65574E-05 | 0.00094 |
| 491793.88 | 3608239.79 | 22440.86907 | 0.00063 | 8.50172 | 5.49783E-05 | 0.00068 |
| 491796.54 | 3608225.81 | 16889.37505 | 0.00047 | 6.29229 | 4.06905E-05 | 0.00051 |
| 491799.2 | 3608213.16 | 13520.08898 | 0.00038 | 4.82803 | 3.12215E-05 | 0.00041 |
| 491804.53 | 3608198.51 | 11109.97723 | 0.00031 | 3.60052 | 2.32836E-05 | 0.00033 |
| 491835.16 | 3608317.03 | 396533.5888 | 0.01107 | 17.47807 | 1.13026E-04 | 0.01118 |
| 491837.82 | 3608303.71 | 271820.1418 | 0.00759 | 16.36569 | 1.05832E-04 | 0.00769 |
| 491843.81 | 3608287.73 | 172647.9047 | 0.00482 | 13.10984 | 8.47777E-05 | 0.00490 |
| 491851.14 | 3608274.41 | 123009.1203 | 0.00343 | 10.45869 | 6.76335E-05 | 0.00350 |
| 491863.07 | 3608247.22 | 66875.79104 | 0.00187 | 6.89013 | 4.45566E-05 | 0.00191 |
| 491867.68 | 3608231.55 | 48552.36905 | 0.00136 | 5.50992 | 3.56311E-05 | 0.00139 |
| 491875.05 | 3608218.65 | 39141.4192 | 0.00109 | 4.51933 | 2.92253E-05 | 0.00112 |
| 491878.74 | 3608195.61 | 25762.88386 | 0.00072 | 3.29514 | 2.13088E-05 | 0.00074 |
| 491885.19 | 3608177.18 | 19590.4194 | 0.00055 | 2.54421 | 1.64527E-05 | 0.00056 |
| 491807.78 | 3608183.63 | 8991.73281 | 0.00025 | 2.70752 | 1.75088E-05 | 0.00027 |
| 491812.39 | 3608167.97 | 7461.70142 | 0.00021 | 2.04387 | 1.32171E-05 | 0.00022 |
| 491819.76 | 3608146.77 | 6015.00085 | 0.00017 | 1.44327 | 9.33323E-06 | 0.00018 |
| 491840.03 | 3608155.06 | 8586.85941 | 0.00024 | 1.76573 | 1.14185E-05 | 0.00025 |
| 491868.6 | 3608170.73 | 15061.64567 | 0.00042 | 2.33746 | 1.51157E-05 | 0.00044 |
| 491865.26 | 3608414.36 | 589528.9513 | 0.01646 | 2.83789 | 1.83519E-05 | 0.01648 |
| 491867.52 | 3608403.04 | 603276.5021 | 0.01684 | 3.15933 | 2.04305E-05 | 0.01686 |
| 491872.05 | 3608392.29 | 591456.4074 | 0.01651 | 3.45016 | 2.23112E-05 | 0.01654 |
| 491874.88 | 3608377.58 | 597304.6585 | 0.01668 | 4.03201 | 2.60739E-05 | 0.01670 |
| 491886.76 | 3608431.91 | 388718.8886 | 0.01085 | 2.05662 | 1.32996E-05 | 0.01087 |
| 491890.73 | 3608422.29 | 390103.9893 | 0.01089 | 2.21408 | 1.43178E-05 | 0.01091 |
| 491896.39 | 3608409.84 | 385911.6877 | 0.01077 | 2.42670 | 1.56928E-05 | 0.01079 |
| 491900.35 | 3608397.38 | 386378.606 | 0.01079 | 2.69290 | 1.74142E-05 | 0.01080 |
| 491903.74 | 3608384.93 | 384883.2425 | 0.01075 | 3.01035 | 1.94671E-05 | 0.01077 |
| 491912.8 | 3608444.92 | 257671.8221 | 0.00719 | 1.56146 | 1.00975E-05 | 0.00720 |
| 491917.89 | 3608432.47 | 263360.5712 | 0.00735 | 1.71251 | 1.10743E-05 | 0.00736 |
| 491921.29 | 3608418.89 | 272794.7326 | 0.00762 | 1.91468 | 1.23817E-05 | 0.00763 |
| 491926.95 | 3608408.14 | 268804.5308 | 0.00750 | 2.05708 | 1.33026E-05 | 0.00752 |
| 491930.91 | 3608396.25 | 268530.5384 | 0.00750 | 2.25717 | 1.45965E-05 | 0.00751 |
| 491950.72 | 3608425.12 | 194646.6309 | 0.00543 | 1.54420 | 9.98592E-06 | 0.00544 |
| 491954.11 | 3608416.06 | 196618.6307 | 0.00549 | 1.64752 | 1.06541E-05 | 0.00550 |
| 491959.21 | 3608404.74 | 195737.5449 | 0.00546 | 1.77690 | 1.14907E-05 | 0.00548 |
| 491984.11 | 3608467.56 | 110109.8527 | 0.00307 | 0.91756 | 5.93361E-06 | 0.00308 |
| 491987.5 | 3608453.98 | 118307.1477 | 0.00330 | 1.01343 | 6.55357E-06 | 0.00331 |
| 491993.16 | 3608442.66 | 121481.4834 | 0.00339 | 1.08708 | 7.02985E-06 | 0.00340 |
| 491998.26 | 3608432.47 | 123421.6186 | 0.00345 | 1.15656 | 7.47916E-06 | 0.00345 |
| 492002.22 | 3608421.15 | 126246.5201 | 0.00352 | 1.24684 | 8.06297E-06 | 0.00353 |
| 492012.41 | 3608475.49 | 83621.49564 | 0.00233 | 0.77086 | 4.98494E-06 | 0.00234 |
| 492015.24 | 3608463.6 | 89538.12932 | 0.00250 | 0.83799 | 5.41905E-06 | 0.00251 |

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|---|---|---|---|---|---|---|
| 492020.9 | 3608451.15 | 93343.85437 | 0.00261 | 0.90443 | 5.84870E-06 | 0.00261 |
| 492024.29 | 3608441.53 | 96373.73261 | 0.00269 | 0.96222 | 6.22241E-06 | 0.00270 |
| 492028.25 | 3608428.51 | 100102.7559 | 0.00279 | 1.04776 | 6.77558E-06 | 0.00280 |
| 492037.31 | 3608486.24 | 64997.07485 | 0.00181 | 0.64922 | 4.19833E-06 | 0.00182 |
| 492042.4 | 3608472.09 | 70003.93619 | 0.00195 | 0.70953 | 4.58834E-06 | 0.00196 |
| 492046.36 | 3608461.34 | 73396.40947 | 0.00205 | 0.75843 | 4.90456E-06 | 0.00205 |
| 492050.89 | 3608450.58 | 76111.04301 | 0.00212 | 0.80837 | 5.22751E-06 | 0.00213 |
| 492055.42 | 3608440.4 | 78120.56521 | 0.00218 | 0.85687 | 5.54114E-06 | 0.00219 |
| 492065.61 | 3608493.6 | 51730.61634 | 0.00144 | 0.56015 | 3.62234E-06 | 0.00145 |
| 492069 | 3608481.15 | 55673.63012 | 0.00155 | 0.60579 | 3.91748E-06 | 0.00156 |
| 492075.23 | 3608469.26 | 58198.33458 | 0.00162 | 0.64600 | 4.17750E-06 | 0.00163 |
| 492078.06 | 3608457.38 | 61580.37877 | 0.00172 | 0.69626 | 4.50252E-06 | 0.00172 |
| 492082.59 | 3608446.62 | 63614.62687 | 0.00178 | 0.73928 | 4.78072E-06 | 0.00178 |
| 491873.18 | 3608334.56 | 510026.4393 | 0.01424 | 7.44433 | 4.81404E-05 | 0.01429 |
| 491929.78 | 3608349.84 | 275582.9614 | 0.00769 | 3.59829 | 2.32692E-05 | 0.00772 |
| 491879.97 | 3608317.02 | 336657.7205 | 0.00940 | 7.99283 | 5.16874E-05 | 0.00945 |
| 491893.22 | 3608305.33 | 244539.0944 | 0.00683 | 7.09578 | 4.58865E-05 | 0.00687 |
| 491889.89 | 3608289.35 | 180966.3293 | 0.00505 | 7.41382 | 4.79431E-05 | 0.00510 |
| 491907.21 | 3608277.37 | 138377.9598 | 0.00386 | 6.01035 | 3.88673E-05 | 0.00390 |
| 491909.87 | 3608246.74 | 79154.74331 | 0.00221 | 4.98056 | 3.22079E-05 | 0.00224 |
| 491914.53 | 3608232.76 | 62103.64315 | 0.00173 | 4.32670 | 2.79796E-05 | 0.00176 |
| 491920.52 | 3608219.44 | 50060.99609 | 0.00140 | 3.72852 | 2.41113E-05 | 0.00142 |
| 491923.85 | 3608203.46 | 38703.0525 | 0.00108 | 3.15801 | 2.04220E-05 | 0.00110 |
| 491922.52 | 3608187.48 | 29639.67512 | 0.00083 | 2.68938 | 1.73915E-05 | 0.00084 |
| 491933.84 | 3608176.16 | 26152.75972 | 0.00073 | 2.31799 | 1.49898E-05 | 0.00075 |
| 491936.5 | 3608332.63 | 234523.5732 | 0.00655 | 3.92068 | 2.53540E-05 | 0.00657 |
| 491945.82 | 3608306.66 | 173169.8634 | 0.00483 | 4.13765 | 2.67570E-05 | 0.00486 |
| 491948.49 | 3608292.02 | 145064.0697 | 0.00405 | 4.17470 | 2.69966E-05 | 0.00408 |
| 491954.48 | 3608266.71 | 103224.5835 | 0.00288 | 3.92112 | 2.53568E-05 | 0.00291 |
| 491965.8 | 3608249.4 | 80108.96105 | 0.00224 | 3.44176 | 2.22569E-05 | 0.00226 |
| 491959.81 | 3608230.76 | 62686.59318 | 0.00175 | 3.27610 | 2.11856E-05 | 0.00177 |
| 491973.12 | 3608219.44 | 53627.38352 | 0.00150 | 2.85414 | 1.84569E-05 | 0.00152 |
| 491965.13 | 3608198.8 | 40196.10183 | 0.00112 | 2.57399 | 1.66453E-05 | 0.00114 |
| 491987.11 | 3608190.14 | 36888.98902 | 0.00103 | 2.21423 | 1.43188E-05 | 0.00104 |
| 491975.79 | 3608366.59 | 178873.4984 | 0.00499 | 2.25235 | 1.45653E-05 | 0.00501 |
| 491980.45 | 3608353.27 | 169371.4764 | 0.00473 | 2.42270 | 1.56669E-05 | 0.00474 |
| 491988.44 | 3608337.29 | 152041.2074 | 0.00424 | 2.55377 | 1.65145E-05 | 0.00426 |
| 491991.77 | 3608319.32 | 136973.1522 | 0.00382 | 2.73973 | 1.77171E-05 | 0.00384 |
| 492001.09 | 3608294.68 | 110325.6905 | 0.00308 | 2.77387 | 1.79379E-05 | 0.00310 |
| 492006.41 | 3608282.03 | 97363.99563 | 0.00272 | 2.72184 | 1.76014E-05 | 0.00274 |
| 492013.07 | 3608266.05 | 82663.1572 | 0.00231 | 2.61058 | 1.68819E-05 | 0.00232 |
| 492013.07 | 3608251.4 | 72289.32148 | 0.00202 | 2.56586 | 1.65927E-05 | 0.00203 |
| 492028.39 | 3608241.41 | 62887.85268 | 0.00176 | 2.30116 | 1.48810E-05 | 0.00177 |
| 492019.07 | 3608222.77 | 53476.99655 | 0.00149 | 2.28757 | 1.47931E-05 | 0.00151 |
| 492045.7 | 3608210.78 | 45452.49661 | 0.00127 | 1.92083 | 1.24215E-05 | 0.00128 |
| 492031.05 | 3608385.23 | 112727.5006 | 0.00315 | 1.43445 | 9.27619E-06 | 0.00316 |
| 492035.71 | 3608369.92 | 110781.352 | 0.00309 | 1.55699 | 1.00686E-05 | 0.00310 |
| 492027.06 | 3608353.27 | 117475.215 | 0.00328 | 1.81736 | 1.17524E-05 | 0.00329 |
| 492046.36 | 3608339.96 | 100944.5021 | 0.00282 | 1.75203 | 1.13299E-05 | 0.00283 |
| 492040.37 | 3608324.64 | 101087.0358 | 0.00282 | 1.94963 | 1.26077E-05 | 0.00283 |
| 492057.02 | 3608313.32 | 87983.27103 | 0.00246 | 1.84423 | 1.19261E-05 | 0.00247 |
| 492055.69 | 3608297.34 | 82983.20924 | 0.00232 | 1.94539 | 1.25803E-05 | 0.00233 |
| 492059.02 | 3608282.03 | 75410.62761 | 0.00211 | 1.96082 | 1.26801E-05 | 0.00212 |
| 492069.67 | 3608270.04 | 67070.83152 | 0.00187 | 1.86581 | 1.20657E-05 | 0.00188 |
| 492061.68 | 3608253.4 | 62148.13063 | 0.00174 | 1.94735 | 1.25930E-05 | 0.00175 |
| 492078.32 | 3608241.41 | 53934.29894 | 0.00151 | 1.76457 | 1.14110E-05 | 0.00152 |
| 492079.66 | 3608226.76 | 48297.83936 | 0.00135 | 1.71233 | 1.10732E-05 | 0.00136 |
| 492069.51 | 3608395.3 | 84466.80709 | 0.00236 | 1.11315 | 7.19844E-06 | 0.00237 |
| 492076.17 | 3608375.99 | 83704.79149 | 0.00234 | 1.22143 | 7.89865E-06 | 0.00234 |
| 492085.49 | 3608364.01 | 79670.90896 | 0.00222 | 1.25216 | 8.09737E-06 | 0.00223 |

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| 492102.14 | 3608406.62 | 66659.39687 | 0.00186 | 0.89809 | 5.80770E-06 | 0.00187 |
| 492129.44 | 3608410.61 | 56135.98193 | 0.00157 | 0.78540 | 5.07897E-06 | 0.00157 |
| 492095.48 | 3608352.69 | 75074.61459 | 0.00210 | 1.26584 | 8.18584E-06 | 0.00210 |
| 492094.15 | 3608336.04 | 74769.00478 | 0.00209 | 1.37757 | 8.90837E-06 | 0.00210 |
| 492135.43 | 3608348.69 | 59822.0277 | 0.00167 | 1.06697 | 6.89980E-06 | 0.00168 |
| 492101.47 | 3608312.74 | 68685.98252 | 0.00192 | 1.44695 | 9.35703E-06 | 0.00193 |
| 492120.78 | 3608244.15 | 47515.56367 | 0.00133 | 1.43698 | 9.29255E-06 | 0.00134 |
| 492106.8 | 3608297.42 | 63920.32042 | 0.00178 | 1.46755 | 9.49024E-06 | 0.00179 |
| 492168.06 | 3608256.14 | 42321.71042 | 0.00118 | 1.15696 | 7.48174E-06 | 0.00119 |
| 491832.47 | 3608106.99 | 4180.27461 | 0.00012 | 0.82048 | 5.30582E-06 | 0.00012 |
| 491853.78 | 3608116.31 | 5792.22388 | 0.00016 | 1.01929 | 6.59147E-06 | 0.00017 |
| 491874.42 | 3608123.64 | 7782.89246 | 0.00022 | 1.19844 | 7.74998E-06 | 0.00023 |
| 491899.72 | 3608128.96 | 10460.46231 | 0.00029 | 1.34443 | 8.69406E-06 | 0.00030 |
| 491836.47 | 3608093.01 | 3710.77936 | 0.00010 | 0.68642 | 4.43889E-06 | 0.00011 |
| 491877.09 | 3608106.33 | 6350.14878 | 0.00018 | 0.95334 | 6.16499E-06 | 0.00018 |
| 491905.05 | 3608118.98 | 9510.661 | 0.00027 | 1.19114 | 7.70278E-06 | 0.00027 |
| 491907.71 | 3608101.66 | 7734.16153 | 0.00022 | 0.96262 | 6.22500E-06 | 0.00022 |
| 491883.74 | 3608091.01 | 5569.59303 | 0.00016 | 0.79462 | 5.13859E-06 | 0.00016 |
| 491848.45 | 3608065.04 | 3079.74148 | 0.00009 | 0.50327 | 3.25451E-06 | 0.00009 |
| 491853.12 | 3608053.06 | 2845.00857 | 0.00008 | 0.44410 | 2.87187E-06 | 0.00008 |
| 491873.09 | 3608063.05 | 3716.66742 | 0.00010 | 0.54139 | 3.50102E-06 | 0.00011 |
| 491909.71 | 3608072.37 | 5512.02895 | 0.00015 | 0.67690 | 4.37733E-06 | 0.00016 |
| 491921.03 | 3608059.05 | 5157.77157 | 0.00014 | 0.59639 | 3.85669E-06 | 0.00015 |
| 491925.69 | 3608040.41 | 4365.67123 | 0.00012 | 0.49036 | 3.17102E-06 | 0.00013 |
| 491856.44 | 3608031.75 | 2391.11038 | 0.00007 | 0.35189 | 2.27558E-06 | 0.00007 |
| 491867.1 | 3608010.44 | 2147.01462 | 0.00006 | 0.29200 | 1.88828E-06 | 0.00006 |
| 491875.09 | 3607976.49 | 1718.34971 | 0.00005 | 0.21562 | 1.39436E-06 | 0.00005 |
| 491918.37 | 3607991.8 | 2607.50294 | 0.00007 | 0.28963 | 1.87296E-06 | 0.00007 |
| 491945 | 3608000.46 | 3347.42556 | 0.00009 | 0.34252 | 2.21498E-06 | 0.00010 |
| 491935.09 | 3608141.53 | 15811.72963 | 0.00044 | 1.58326 | 1.02385E-05 | 0.00045 |
| 491960.9 | 3608152.59 | 20885.93528 | 0.00058 | 1.72935 | 1.11832E-05 | 0.00059 |
| 491988.54 | 3608164.57 | 26680.53337 | 0.00074 | 1.81216 | 1.17187E-05 | 0.00076 |
| 491946.15 | 3608114.81 | 11726.3336 | 0.00033 | 1.17209 | 7.57958E-06 | 0.00033 |
| 491988.54 | 3608129.55 | 17191.33706 | 0.00048 | 1.33436 | 8.62894E-06 | 0.00049 |
| 492018.04 | 3608107.44 | 14609.94337 | 0.00041 | 1.06121 | 6.86255E-06 | 0.00041 |
| 491955.37 | 3608089 | 8955.75981 | 0.00025 | 0.88806 | 5.74284E-06 | 0.00026 |
| 491963.66 | 3608059.51 | 6685.43509 | 0.00019 | 0.65486 | 4.23480E-06 | 0.00019 |
| 491984.86 | 3608059.51 | 7477.34499 | 0.00021 | 0.67462 | 4.36258E-06 | 0.00021 |
| 492031.86 | 3608066.89 | 9871.96109 | 0.00028 | 0.74218 | 4.79947E-06 | 0.00028 |
| 492020.8 | 3608040.16 | 7216.79234 | 0.00020 | 0.58284 | 3.76907E-06 | 0.00021 |
| 491977.49 | 3608027.26 | 5172.79373 | 0.00014 | 0.48467 | 3.13423E-06 | 0.00015 |
| 491983.94 | 3608007.9 | 4445.64427 | 0.00012 | 0.40747 | 2.63500E-06 | 0.00013 |
| 492044.76 | 3608018.04 | 6426.81543 | 0.00018 | 0.49104 | 3.17542E-06 | 0.00018 |
| 492048.45 | 3608001.45 | 5605.04851 | 0.00016 | 0.42857 | 2.77144E-06 | 0.00016 |
| 491999.6 | 3607989.47 | 4066.56556 | 0.00011 | 0.35545 | 2.29860E-06 | 0.00012 |
| 492038.31 | 3608171.95 | 30870.0028 | 0.00086 | 1.63629 | 1.05814E-05 | 0.00087 |
| 492047.53 | 3608155.36 | 26046.82328 | 0.00073 | 1.43556 | 9.28337E-06 | 0.00074 |
| 492086.23 | 3608187.61 | 34800.01113 | 0.00097 | 1.48031 | 9.57276E-06 | 0.00098 |
| 492095.45 | 3608171.03 | 29921.10786 | 0.00084 | 1.33609 | 8.64013E-06 | 0.00084 |
| 492053.98 | 3608123.1 | 18782.21306 | 0.00052 | 1.13753 | 7.35609E-06 | 0.00053 |
| 492109.27 | 3608145.22 | 23826.16581 | 0.00067 | 1.13313 | 7.32764E-06 | 0.00067 |
| 492058.59 | 3608100.06 | 14968.14869 | 0.00042 | 0.95426 | 6.17094E-06 | 0.00042 |
| 492123.1 | 3608113.89 | 18276.37331 | 0.00051 | 0.92760 | 5.99853E-06 | 0.00052 |
| 492135.08 | 3608094.53 | 15629.64783 | 0.00044 | 0.81189 | 5.25027E-06 | 0.00044 |
| 492076.1 | 3608065.04 | 11034.36032 | 0.00031 | 0.72072 | 4.66070E-06 | 0.00031 |
| 492085.31 | 3608030.02 | 8189.43118 | 0.00023 | 0.55127 | 3.56491E-06 | 0.00023 |
| 492139.69 | 3608065.96 | 12391.12724 | 0.00035 | 0.68060 | 4.40125E-06 | 0.00035 |
| 492139.69 | 3608212.5 | 37320.35401 | 0.00104 | 1.27558 | 8.24883E-06 | 0.00105 |
| 492183.92 | 3608227.24 | 35481.27135 | 0.00099 | 1.08028 | 6.98587E-06 | 0.00100 |
| 492143.37 | 3608192.22 | 32542.94347 | 0.00091 | 1.20370 | 7.78400E-06 | 0.00092 |

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| 492194.98 | 3608204.2 | 30785.83068 | 0.00086 | 1.01145 | 6.54077E-06 | 0.00087 |
| 492203.28 | 3608183.01 | 27032.74153 | 0.00075 | 0.94695 | 6.12367E-06 | 0.00076 |
| 492151.67 | 3608153.52 | 24592.58173 | 0.00069 | 1.03352 | 6.68349E-06 | 0.00069 |
| 492197.75 | 3608162.73 | 24382.24963 | 0.00068 | 0.91938 | 5.94538E-06 | 0.00069 |
| 492159.04 | 3608135.08 | 21371.48879 | 0.00060 | 0.93915 | 6.07323E-06 | 0.00060 |
| 492164.57 | 3608118.49 | 18861.03342 | 0.00053 | 0.86053 | 5.56481E-06 | 0.00053 |
| 492219.86 | 3608141.53 | 20767.73595 | 0.00058 | 0.80792 | 5.22460E-06 | 0.00059 |
| 492223.55 | 3608114.81 | 17605.82478 | 0.00049 | 0.73113 | 4.72802E-06 | 0.00050 |
| 492231.84 | 3608098.22 | 15772.55758 | 0.00044 | 0.67306 | 4.35249E-06 | 0.00044 |
| 492170.1 | 3608097.3 | 16098.24566 | 0.00045 | 0.76825 | 4.96806E-06 | 0.00045 |
| 492180.24 | 3608077.94 | 13955.35376 | 0.00039 | 0.68315 | 4.41774E-06 | 0.00039 |
| 492183.92 | 3608055.83 | 11864.67278 | 0.00033 | 0.60414 | 3.90681E-06 | 0.00034 |
| 492218.94 | 3608068.73 | 13103.09219 | 0.00037 | 0.60903 | 3.93843E-06 | 0.00037 |
| 492246.59 | 3608230.01 | 29459.61125 | 0.00082 | 0.84615 | 5.47182E-06 | 0.00083 |
| 492239.22 | 3608207.89 | 27744.96499 | 0.00077 | 0.86205 | 5.57464E-06 | 0.00078 |
| 492241.98 | 3608194.07 | 25986.19077 | 0.00073 | 0.84196 | 5.44472E-06 | 0.00073 |
| 492246.59 | 3608176.56 | 23745.69812 | 0.00066 | 0.80800 | 5.22511E-06 | 0.00067 |
| 492257.65 | 3608163.65 | 21811.33647 | 0.00061 | 0.76159 | 4.92499E-06 | 0.00061 |
| 492261.34 | 3608145.22 | 19794.15036 | 0.00055 | 0.72336 | 4.67777E-06 | 0.00056 |
| 492266.87 | 3608124.02 | 17592.10804 | 0.00049 | 0.67343 | 4.35489E-06 | 0.00050 |
| 492272.39 | 3608108.36 | 16065.59041 | 0.00045 | 0.63341 | 4.09609E-06 | 0.00045 |
| 492277.92 | 3608094.53 | 14809.70621 | 0.00041 | 0.59758 | 3.86439E-06 | 0.00042 |
| 492285.3 | 3608081.63 | 13701.00363 | 0.00038 | 0.56237 | 3.63669E-06 | 0.00039 |
| 491685.34 | 3608168.26 | 1905.1755 | 0.00005 | 0.95379 | 6.16790E-06 | 0.00006 |
| 491689.95 | 3608145.22 | 1616.14261 | 0.00005 | 0.68053 | 4.40080E-06 | 0.00005 |
| 491694.56 | 3608131.4 | 1490.70102 | 0.00004 | 0.57313 | 3.70627E-06 | 0.00005 |
| 491698.24 | 3608118.49 | 1381.51988 | 0.00004 | 0.49193 | 3.18118E-06 | 0.00004 |
| 491701.01 | 3608105.59 | 1277.01571 | 0.00004 | 0.42458 | 2.74564E-06 | 0.00004 |
| 491703.77 | 3608093.61 | 1191.86472 | 0.00003 | 0.37342 | 2.41480E-06 | 0.00004 |
| 491707.46 | 3608079.79 | 1107.7138 | 0.00003 | 0.32522 | 2.10311E-06 | 0.00003 |
| 491713.91 | 3608070.57 | 1083.94065 | 0.00003 | 0.30182 | 1.95179E-06 | 0.00003 |
| 491715.75 | 3608058.59 | 1012.41747 | 0.00003 | 0.26913 | 1.74039E-06 | 0.00003 |
| 491720.36 | 3608046.61 | 964.20218 | 0.00003 | 0.24322 | 1.57284E-06 | 0.00003 |
| 491732.34 | 3608014.36 | 849.87505 | 0.00002 | 0.18861 | 1.21969E-06 | 0.00002 |
| 491735.11 | 3608002.37 | 804.64468 | 0.00002 | 0.17194 | 1.11189E-06 | 0.00002 |
| 491735.11 | 3607991.32 | 754.55705 | 0.00002 | 0.15735 | 1.01754E-06 | 0.00002 |
| 491744.32 | 3607980.26 | 748.06203 | 0.00002 | 0.14774 | 9.55394E-07 | 0.00002 |
| 491747.09 | 3607967.35 | 707.05832 | 0.00002 | 0.13494 | 8.72620E-07 | 0.00002 |
| 491755.38 | 3607954.45 | 690.7191 | 0.00002 | 0.12526 | 8.10022E-07 | 0.00002 |
| 491759.07 | 3607939.71 | 651.23376 | 0.00002 | 0.11385 | 7.36237E-07 | 0.00002 |
| 491636.5 | 3608156.28 | 1317.55011 | 0.00004 | 0.61405 | 3.97089E-06 | 0.00004 |
| 491618.06 | 3608148.91 | 1155.56399 | 0.00003 | 0.50736 | 3.28096E-06 | 0.00004 |
| 491598.71 | 3608143.38 | 1035.22776 | 0.00003 | 0.42946 | 2.77720E-06 | 0.00003 |
| 491579.36 | 3608134.16 | 915.03025 | 0.00003 | 0.35221 | 2.27765E-06 | 0.00003 |
| 491565.53 | 3608132.32 | 865.75646 | 0.00002 | 0.32156 | 2.07944E-06 | 0.00003 |
| 491548.94 | 3608123.1 | 781.22765 | 0.00002 | 0.27180 | 1.75766E-06 | 0.00002 |
| 491654.01 | 3608119.42 | 1093.05063 | 0.00003 | 0.41940 | 2.71214E-06 | 0.00003 |
| 491663.22 | 3608133.24 | 1261.55124 | 0.00004 | 0.51410 | 3.32454E-06 | 0.00004 |
| 491657.69 | 3608106.51 | 1016.55434 | 0.00003 | 0.36746 | 2.37626E-06 | 0.00003 |
| 491663.22 | 3608094.53 | 961.6658 | 0.00003 | 0.32912 | 2.12833E-06 | 0.00003 |
| 491674.28 | 3608094.53 | 1013.91396 | 0.00003 | 0.34110 | 2.20580E-06 | 0.00003 |
| 491681.65 | 3608086.24 | 996.05117 | 0.00003 | 0.31991 | 2.06877E-06 | 0.00003 |
| 491686.26 | 3608072.42 | 932.10878 | 0.00003 | 0.28186 | 1.82271E-06 | 0.00003 |
| 491663.22 | 3608078.87 | 868.71747 | 0.00002 | 0.28068 | 1.81508E-06 | 0.00003 |
| 491671.52 | 3608072.42 | 865.98489 | 0.00002 | 0.27000 | 1.74602E-06 | 0.00003 |
| 491676.12 | 3608058.59 | 812.08348 | 0.00002 | 0.23991 | 1.55143E-06 | 0.00002 |
| 491678.89 | 3608048.45 | 773.86256 | 0.00002 | 0.22037 | 1.42507E-06 | 0.00002 |
| 491690.87 | 3608053.98 | 850.17689 | 0.00002 | 0.23929 | 1.54742E-06 | 0.00003 |
| 491695.48 | 3608035.55 | 779.20615 | 0.00002 | 0.20522 | 1.32710E-06 | 0.00002 |
| 491701.93 | 3608024.49 | 755.88226 | 0.00002 | 0.18973 | 1.22693E-06 | 0.00002 |

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| 491624.52 | 3608121.26 | 982.59795 | 0.00003 | 0.38106 | 2.46421E-06 | 0.00003 |
| 491615.3 | 3608116.65 | 923.03046 | 0.00003 | 0.34920 | 2.25818E-06 | 0.00003 |
| 491603.32 | 3608112.97 | 867.25904 | 0.00002 | 0.31999 | 2.06929E-06 | 0.00003 |
| 491590.42 | 3608107.44 | 806.51646 | 0.00002 | 0.28739 | 1.85847E-06 | 0.00002 |
| 491582.12 | 3608104.67 | 774.91834 | 0.00002 | 0.27053 | 1.74944E-06 | 0.00002 |
| 491567.38 | 3608101.91 | 732.68088 | 0.00002 | 0.24793 | 1.60330E-06 | 0.00002 |
| 491553.55 | 3608094.53 | 678.74608 | 0.00002 | 0.21986 | 1.42177E-06 | 0.00002 |
| 491560 | 3608079.79 | 637.30235 | 0.00002 | 0.20076 | 1.29826E-06 | 0.00002 |
| 491571.98 | 3608083.47 | 669.156 | 0.00002 | 0.21644 | 1.39966E-06 | 0.00002 |
| 491585.81 | 3608088.08 | 711.15424 | 0.00002 | 0.23709 | 1.53320E-06 | 0.00002 |
| 491599.63 | 3608094.53 | 766.78998 | 0.00002 | 0.26452 | 1.71058E-06 | 0.00002 |
| 491614.38 | 3608097.3 | 814.843 | 0.00002 | 0.28675 | 1.85433E-06 | 0.00002 |
| 491626.36 | 3608102.83 | 877.45895 | 0.00002 | 0.31637 | 2.04588E-06 | 0.00003 |
| 491630.97 | 3608077.94 | 763.464 | 0.00002 | 0.25250 | 1.63285E-06 | 0.00002 |
| 491613.46 | 3608071.49 | 696.20751 | 0.00002 | 0.22558 | 1.45876E-06 | 0.00002 |
| 491635.57 | 3608062.28 | 706.00578 | 0.00002 | 0.22214 | 1.43652E-06 | 0.00002 |
| 491647.56 | 3608065.04 | 748.59786 | 0.00002 | 0.23548 | 1.52278E-06 | 0.00002 |
| 491568.3 | 3608046.61 | 544.90445 | 0.00002 | 0.16037 | 1.03707E-06 | 0.00002 |
| 491556.32 | 3608038.32 | 510.16707 | 0.00001 | 0.14559 | 9.41491E-07 | 0.00002 |
| 491572.91 | 3608032.79 | 512.18472 | 0.00001 | 0.14698 | 9.50479E-07 | 0.00002 |
| 491594.1 | 3608048.45 | 581.94028 | 0.00002 | 0.17577 | 1.13666E-06 | 0.00002 |
| 491589.49 | 3608035.55 | 537.61888 | 0.00002 | 0.15714 | 1.01618E-06 | 0.00002 |
| 491608.85 | 3608039.24 | 573.67335 | 0.00002 | 0.17041 | 1.10199E-06 | 0.00002 |
| 491612.53 | 3608025.41 | 537.6352 | 0.00002 | 0.15465 | 1.00008E-06 | 0.00002 |
| 491625.44 | 3608040.16 | 603.03153 | 0.00002 | 0.17932 | 1.15961E-06 | 0.00002 |
| 491636.5 | 3608029.1 | 586.7769 | 0.00002 | 0.16872 | 1.09107E-06 | 0.00002 |
| 491654.01 | 3608027.26 | 616.81819 | 0.00002 | 0.17328 | 1.12055E-06 | 0.00002 |
| 491643.87 | 3608011.59 | 547.07422 | 0.00002 | 0.14986 | 9.69103E-07 | 0.00002 |
| 491667.83 | 3608015.28 | 609.90493 | 0.00002 | 0.16255 | 1.05117E-06 | 0.00002 |
| 491689.03 | 3607995 | 601.27188 | 0.00002 | 0.14560 | 9.41555E-07 | 0.00002 |
| 491681.65 | 3607976.57 | 528.80566 | 0.00001 | 0.12538 | 8.10798E-07 | 0.00002 |
| 491704.69 | 3607986.71 | 621.67149 | 0.00002 | 0.14150 | 9.15042E-07 | 0.00002 |
| 491713.91 | 3607971.96 | 603.37593 | 0.00002 | 0.12953 | 8.37635E-07 | 0.00002 |
| 491725.89 | 3607958.14 | 598.23444 | 0.00002 | 0.12042 | 7.78723E-07 | 0.00002 |
| 491711.15 | 3607949.84 | 531.94139 | 0.00001 | 0.11043 | 7.14120E-07 | 0.00002 |
| 491729.58 | 3607943.39 | 565.80717 | 0.00002 | 0.10966 | 7.09141E-07 | 0.00002 |
| 491714.83 | 3607935.1 | 504.2339 | 0.00001 | 0.10089 | 6.52428E-07 | 0.00001 |
| 491724.97 | 3607923.12 | 500.55027 | 0.00001 | 0.09521 | 6.15697E-07 | 0.00001 |
| 491737.87 | 3607928.65 | 548.86938 | 0.00002 | 0.10112 | 6.53915E-07 | 0.00002 |
| 491735.11 | 3607910.22 | 495.12574 | 0.00001 | 0.08948 | 5.78643E-07 | 0.00001 |
| 491558.16 | 3608010.67 | 446.76664 | 0.00001 | 0.12114 | 7.83379E-07 | 0.00001 |
| 491579.36 | 3607998.69 | 437.37975 | 0.00001 | 0.11796 | 7.62815E-07 | 0.00001 |
| 491595.95 | 3608003.3 | 462.03995 | 0.00001 | 0.12660 | 8.18687E-07 | 0.00001 |
| 491613.46 | 3607995.92 | 463.12885 | 0.00001 | 0.12513 | 8.09181E-07 | 0.00001 |
| 491599.63 | 3607983.94 | 423.43448 | 0.00001 | 0.11194 | 7.23885E-07 | 0.00001 |
| 491623.59 | 3607979.33 | 437.88119 | 0.00001 | 0.11409 | 7.37789E-07 | 0.00001 |
| 491640.18 | 3607983.02 | 467.47351 | 0.00001 | 0.12094 | 7.82086E-07 | 0.00001 |
| 491660.46 | 3607968.28 | 466.12239 | 0.00001 | 0.11369 | 7.35202E-07 | 0.00001 |
| 491659.54 | 3607951.69 | 429.57667 | 0.00001 | 0.10173 | 6.57860E-07 | 0.00001 |
| 491677.05 | 3607950.77 | 457.63343 | 0.00001 | 0.10432 | 6.74609E-07 | 0.00001 |
| 491682.58 | 3607937.86 | 441.04738 | 0.00001 | 0.09695 | 6.26949E-07 | 0.00001 |
| 491670.6 | 3607928.65 | 403.26628 | 0.00001 | 0.08970 | 5.80065E-07 | 0.00001 |
| 491694.56 | 3607921.27 | 430.62047 | 0.00001 | 0.08923 | 5.77026E-07 | 0.00001 |
| 491682.58 | 3607913.9 | 396.2858 | 0.00001 | 0.08368 | 5.41136E-07 | 0.00001 |
| 491682.58 | 3607901.92 | 376.39613 | 0.00001 | 0.07800 | 5.04405E-07 | 0.00001 |
| 491705.62 | 3607902.84 | 416.61693 | 0.00001 | 0.08134 | 5.26003E-07 | 0.00001 |
| 491561.62 | 3607964.09 | 361.52381 | 0.00001 | 0.09104 | 5.88731E-07 | 0.00001 |
| 491578.12 | 3607959.66 | 363.39121 | 0.00001 | 0.09175 | 5.93322E-07 | 0.00001 |
| 491573.42 | 3607943.99 | 336.42249 | 0.00001 | 0.08283 | 5.35639E-07 | 0.00001 |
| 491600.84 | 3607959.66 | 378.65901 | 0.00001 | 0.09601 | 6.20870E-07 | 0.00001 |

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| 491591.44 | 3607944.77 | 347.74317 | 0.00001 | 0.08613 | 5.56979E-07 | 0.00001 |
| 491603.97 | 3607934.59 | 340.58815 | 0.00001 | 0.08299 | 5.36674E-07 | 0.00001 |
| 491615.72 | 3607947.91 | 370.81638 | 0.00001 | 0.09183 | 5.93839E-07 | 0.00001 |
| 491636.09 | 3607933.02 | 366.04732 | 0.00001 | 0.08695 | 5.62282E-07 | 0.00001 |
| 491625.12 | 3607917.35 | 332.03167 | 0.00001 | 0.07785 | 5.03435E-07 | 0.00001 |
| 491644.71 | 3607918.92 | 353.35695 | 0.00001 | 0.08111 | 5.24516E-07 | 0.00001 |
| 491642.36 | 3607896.99 | 320.10969 | 0.00001 | 0.07132 | 4.61207E-07 | 0.00001 |
| 491658.03 | 3607905.6 | 348.86545 | 0.00001 | 0.07669 | 4.95933E-07 | 0.00001 |
| 491665.08 | 3607887.59 | 331.99941 | 0.00001 | 0.07005 | 4.52994E-07 | 0.00001 |
| 491647.06 | 3607883.67 | 307.77096 | 0.00001 | 0.06677 | 4.31783E-07 | 0.00001 |
| 491564.8 | 3607922.84 | 303.4827 | 0.00001 | 0.07232 | 4.67674E-07 | 0.00001 |
| 491587.52 | 3607913.44 | 301.75849 | 0.00001 | 0.07149 | 4.62306E-07 | 0.00001 |
| 491573.42 | 3607903.25 | 283.1073 | 0.00001 | 0.06604 | 4.27063E-07 | 0.00001 |
| 491607.11 | 3607896.2 | 291.63159 | 0.00001 | 0.06721 | 4.34629E-07 | 0.00001 |
| 491603.97 | 3607878.97 | 270.49998 | 0.00001 | 0.06106 | 3.94858E-07 | 0.00001 |
| 491621.99 | 3607877.4 | 279.96461 | 0.00001 | 0.06223 | 4.02424E-07 | 0.00001 |
| 491892.25 | 3607962.79 | 1729.53705 | 0.00005 | 0.20211 | 1.30699E-06 | 0.00005 |
| 491943.96 | 3607975.32 | 2655.68093 | 0.00007 | 0.26865 | 1.73729E-06 | 0.00008 |
| 491586.79 | 3608712.31 | 8409.91149 | 0.00023 | 0.25537 | 1.65141E-06 | 0.00024 |
| 491579.14 | 3608732.72 | 7291.76171 | 0.00020 | 0.22345 | 1.44499E-06 | 0.00021 |
| 491579.14 | 3608751.86 | 6533.0195 | 0.00018 | 0.19896 | 1.28662E-06 | 0.00018 |
| 491563.83 | 3608778.64 | 5465.98803 | 0.00015 | 0.17032 | 1.10141E-06 | 0.00015 |
| 491558.73 | 3608797.78 | 4905.57279 | 0.00014 | 0.15360 | 9.93289E-07 | 0.00014 |
| 491545.97 | 3608824.57 | 4212.34249 | 0.00012 | 0.13396 | 8.66283E-07 | 0.00012 |
| 491543.42 | 3608838.6 | 3929.01444 | 0.00011 | 0.12516 | 8.09375E-07 | 0.00011 |
| 491534.49 | 3608869.21 | 3382.56676 | 0.00009 | 0.10868 | 7.02804E-07 | 0.00010 |
| 491635.26 | 3608725.07 | 8556.303 | 0.00024 | 0.23968 | 1.54994E-06 | 0.00024 |
| 491665.88 | 3608731.45 | 8360.83188 | 0.00023 | 0.23355 | 1.51030E-06 | 0.00023 |
| 491654.4 | 3608756.96 | 6906.22993 | 0.00019 | 0.19926 | 1.28856E-06 | 0.00019 |
| 491627.61 | 3608748.03 | 7224.74672 | 0.00020 | 0.20756 | 1.34223E-06 | 0.00020 |
| 491621.23 | 3608764.61 | 6439.38955 | 0.00018 | 0.18774 | 1.21406E-06 | 0.00018 |
| 491651.85 | 3608772.27 | 6214.64483 | 0.00017 | 0.18240 | 1.17953E-06 | 0.00017 |
| 491635.26 | 3608823.29 | 4517.60807 | 0.00013 | 0.13801 | 8.92473E-07 | 0.00013 |
| 491608.48 | 3608810.54 | 4835.62481 | 0.00014 | 0.14544 | 9.40521E-07 | 0.00014 |
| 491603.37 | 3608829.67 | 4336.69451 | 0.00012 | 0.13187 | 8.52767E-07 | 0.00012 |
| 491627.61 | 3608838.6 | 4143.13594 | 0.00012 | 0.12751 | 8.24572E-07 | 0.00012 |
| 491622.51 | 3608866.66 | 3564.66602 | 0.00010 | 0.11155 | 7.21363E-07 | 0.00010 |
| 491590.62 | 3608859.01 | 3701.20145 | 0.00010 | 0.11431 | 7.39211E-07 | 0.00010 |
| 491586.79 | 3608875.59 | 3404.77827 | 0.00010 | 0.10597 | 6.85279E-07 | 0.00010 |
| 491617.41 | 3608884.52 | 3257.20091 | 0.00009 | 0.10280 | 6.64779E-07 | 0.00009 |
| 491707.97 | 3608753.13 | 7153.25801 | 0.00020 | 0.20753 | 1.34204E-06 | 0.00020 |
| 491702.87 | 3608768.44 | 6396.431 | 0.00018 | 0.18982 | 1.22751E-06 | 0.00018 |
| 491696.49 | 3608791.4 | 5468.59705 | 0.00015 | 0.16695 | 1.07962E-06 | 0.00015 |
| 491688.84 | 3608805.43 | 4998.74356 | 0.00014 | 0.15457 | 9.99562E-07 | 0.00014 |
| 491683.74 | 3608834.77 | 4189.63762 | 0.00012 | 0.13298 | 8.59945E-07 | 0.00012 |
| 491674.81 | 3608851.36 | 3820.01121 | 0.00011 | 0.12236 | 7.91269E-07 | 0.00011 |
| 491669.71 | 3608874.32 | 3379.43532 | 0.00009 | 0.10986 | 7.10434E-07 | 0.00010 |
| 491667.15 | 3608903.66 | 2914.7126 | 0.00008 | 0.09656 | 6.24427E-07 | 0.00008 |
| 491741.14 | 3608758.23 | 6978.56924 | 0.00019 | 0.20192 | 1.30576E-06 | 0.00020 |
| 491733.49 | 3608772.27 | 6281.67673 | 0.00018 | 0.18683 | 1.20818E-06 | 0.00018 |
| 491727.11 | 3608797.78 | 5275.56965 | 0.00015 | 0.16283 | 1.05298E-06 | 0.00015 |
| 491720.73 | 3608809.26 | 4893.44238 | 0.00014 | 0.15316 | 9.90444E-07 | 0.00014 |
| 491711.8 | 3608833.5 | 4219.16689 | 0.00012 | 0.13521 | 8.74366E-07 | 0.00012 |
| 491706.7 | 3608855.18 | 3729.43269 | 0.00010 | 0.12169 | 7.86936E-07 | 0.00010 |
| 491701.6 | 3608871.77 | 3409.51209 | 0.00010 | 0.11253 | 7.27701E-07 | 0.00010 |
| 491699.05 | 3608899.83 | 2955.05305 | 0.00008 | 0.09935 | 6.42469E-07 | 0.00008 |
| 491778.13 | 3608770.99 | 6583.73997 | 0.00018 | 0.18625 | 1.20443E-06 | 0.00019 |
| 491773.03 | 3608791.4 | 5700.1801 | 0.00016 | 0.16812 | 1.08719E-06 | 0.00016 |
| 491762.83 | 3608811.81 | 4952.10555 | 0.00014 | 0.15217 | 9.84042E-07 | 0.00014 |
| 491760.28 | 3608828.39 | 4468.7311 | 0.00012 | 0.14044 | 9.08187E-07 | 0.00013 |

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|---|---|---|---|---|---|---|
| 491755.17 | 3608851.36 | 3900.00547 | 0.00011 | 0.12606 | 8.15195E-07 | 0.00011 |
| 491747.52 | 3608869.21 | 3518.43567 | 0.00010 | 0.11604 | 7.50399E-07 | 0.00010 |
| 491738.59 | 3608884.52 | 3229.67762 | 0.00009 | 0.10809 | 6.98988E-07 | 0.00009 |

## Moss Street

**2020** **Tier IV mitigation** **at Sensitive Receptors**

| X (m) | Y (m) | Onsite Annual DPM Exhaust w/Unit Emissions (ug/m3) | Onsite Annual DPM Exhaust w/Actual Emissions (ug/m3) | Offsite Annual DPM Exhaust w/Unit Emissions (ug/m3) | Offsite Annual DPM Exhaust w/Actual Emissions (ug/m3) | Total DPM (ug/m3) |
|---|---|---|---|---|---|---|
| 491856.94 | 3608423.76 | 631633.5918 | 0.01374 | 2.71215 | 3.06021E-05 | 0.01377 |
| 491770.82 | 3608296.56 | 83768.45212 | 0.00182 | 40.63129 | 4.58456E-04 | 0.00228 |
| 491786.69 | 3608300.4 | 169029.1196 | 0.00368 | 37.16311 | 4.19323E-04 | 0.00410 |
| 491777.07 | 3608270.58 | 37629.84601 | 0.00082 | 18.63654 | 2.10282E-04 | 0.00103 |
| 491794.39 | 3608275.87 | 71537.09153 | 0.00156 | 18.30192 | 2.06507E-04 | 0.00176 |
| 491789.88 | 3608254.44 | 30952.91267 | 0.00067 | 11.83867 | 1.33580E-04 | 0.00081 |
| 491793.88 | 3608239.79 | 22440.86907 | 0.00049 | 8.50172 | 9.59277E-05 | 0.00058 |
| 491796.54 | 3608225.81 | 16889.37505 | 0.00037 | 6.29229 | 7.09980E-05 | 0.00044 |
| 491799.2 | 3608213.16 | 13520.08898 | 0.00029 | 4.82803 | 5.44762E-05 | 0.00035 |
| 491804.53 | 3608198.51 | 11109.97723 | 0.00024 | 3.60052 | 4.06258E-05 | 0.00028 |
| 491835.16 | 3608317.03 | 396533.5888 | 0.00862 | 17.47807 | 1.97211E-04 | 0.00882 |
| 491837.82 | 3608303.71 | 271820.1418 | 0.00591 | 16.36569 | 1.84659E-04 | 0.00610 |
| 491843.81 | 3608287.73 | 172647.9047 | 0.00375 | 13.10984 | 1.47923E-04 | 0.00390 |
| 491851.14 | 3608274.41 | 123009.1203 | 0.00268 | 10.45869 | 1.18009E-04 | 0.00279 |
| 491863.07 | 3608247.22 | 66875.79104 | 0.00145 | 6.89013 | 7.77436E-05 | 0.00153 |
| 491867.68 | 3608231.55 | 48552.36905 | 0.00106 | 5.50992 | 6.21702E-05 | 0.00112 |
| 491875.05 | 3608218.65 | 39141.4192 | 0.00085 | 4.51933 | 5.09931E-05 | 0.00090 |
| 491878.74 | 3608195.61 | 25762.88386 | 0.00056 | 3.29514 | 3.71801E-05 | 0.00060 |
| 491885.19 | 3608177.18 | 19590.4194 | 0.00043 | 2.54421 | 2.87071E-05 | 0.00045 |
| 491807.78 | 3608183.63 | 8991.73281 | 0.00020 | 2.70752 | 3.05498E-05 | 0.00023 |
| 491812.39 | 3608167.97 | 7461.70142 | 0.00016 | 2.04387 | 2.30616E-05 | 0.00019 |
| 491819.76 | 3608146.77 | 6015.00085 | 0.00013 | 1.44327 | 1.62849E-05 | 0.00015 |
| 491840.03 | 3608155.06 | 8586.85941 | 0.00019 | 1.76573 | 1.99233E-05 | 0.00021 |
| 491868.6 | 3608170.73 | 15061.64567 | 0.00033 | 2.33746 | 2.63743E-05 | 0.00035 |
| 491865.26 | 3608414.36 | 589528.9513 | 0.01282 | 2.83789 | 3.20208E-05 | 0.01285 |
| 491867.52 | 3608403.04 | 603276.5021 | 0.01312 | 3.15933 | 3.56477E-05 | 0.01316 |
| 491872.05 | 3608392.29 | 591456.4074 | 0.01286 | 3.45016 | 3.89293E-05 | 0.01290 |
| 491874.88 | 3608377.58 | 597304.6585 | 0.01299 | 4.03201 | 4.54945E-05 | 0.01304 |
| 491886.76 | 3608431.91 | 388718.8886 | 0.00845 | 2.05662 | 2.32055E-05 | 0.00848 |
| 491890.73 | 3608422.29 | 390103.9893 | 0.00848 | 2.21408 | 2.49822E-05 | 0.00851 |
| 491896.39 | 3608409.84 | 385911.6877 | 0.00839 | 2.42670 | 2.73812E-05 | 0.00842 |
| 491900.35 | 3608397.38 | 386378.606 | 0.00840 | 2.69290 | 3.03849E-05 | 0.00843 |
| 491903.74 | 3608384.93 | 384883.2425 | 0.00837 | 3.01035 | 3.39668E-05 | 0.00840 |
| 491912.8 | 3608444.92 | 257671.8221 | 0.00560 | 1.56146 | 1.76185E-05 | 0.00562 |
| 491917.89 | 3608432.47 | 263360.5712 | 0.00573 | 1.71251 | 1.93228E-05 | 0.00575 |

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| 491921.29 | 3608418.89 | 272794.7326 | 0.00593 | 1.91468 | 2.16040E-05 | 0.00595 |
| 491926.95 | 3608408.14 | 268804.5308 | 0.00585 | 2.05708 | 2.32107E-05 | 0.00587 |
| 491930.91 | 3608396.25 | 268530.5384 | 0.00584 | 2.25717 | 2.54684E-05 | 0.00587 |
| 491950.72 | 3608425.12 | 194646.6309 | 0.00423 | 1.54420 | 1.74237E-05 | 0.00425 |
| 491954.11 | 3608416.06 | 196618.6307 | 0.00428 | 1.64752 | 1.85895E-05 | 0.00429 |
| 491959.21 | 3608404.74 | 195737.5449 | 0.00426 | 1.77690 | 2.00493E-05 | 0.00428 |
| 491984.11 | 3608467.56 | 110109.8527 | 0.00239 | 0.91756 | 1.03531E-05 | 0.00241 |
| 491987.5 | 3608453.98 | 118307.1477 | 0.00257 | 1.01343 | 1.14349E-05 | 0.00258 |
| 491993.16 | 3608442.66 | 121481.4834 | 0.00264 | 1.08708 | 1.22659E-05 | 0.00265 |
| 491998.26 | 3608432.47 | 123421.6186 | 0.00268 | 1.15656 | 1.30498E-05 | 0.00270 |
| 492002.22 | 3608421.15 | 126246.5201 | 0.00275 | 1.24684 | 1.40685E-05 | 0.00276 |
| 492012.41 | 3608475.49 | 83621.49564 | 0.00182 | 0.77086 | 8.69786E-06 | 0.00183 |
| 492015.24 | 3608463.6 | 89538.12932 | 0.00195 | 0.83799 | 9.45531E-06 | 0.00196 |
| 492020.9 | 3608451.15 | 93343.85437 | 0.00203 | 0.90443 | 1.02050E-05 | 0.00204 |
| 492024.29 | 3608441.53 | 96373.73261 | 0.00210 | 0.96222 | 1.08570E-05 | 0.00211 |
| 492028.25 | 3608428.51 | 100102.7559 | 0.00218 | 1.04776 | 1.18222E-05 | 0.00219 |
| 492037.31 | 3608486.24 | 64997.07485 | 0.00141 | 0.64922 | 7.32536E-06 | 0.00142 |
| 492042.4 | 3608472.09 | 70003.93619 | 0.00152 | 0.70953 | 8.00586E-06 | 0.00153 |
| 492046.36 | 3608461.34 | 73396.40947 | 0.00160 | 0.75843 | 8.55761E-06 | 0.00160 |
| 492050.89 | 3608450.58 | 76111.04301 | 0.00166 | 0.80837 | 9.12110E-06 | 0.00166 |
| 492055.42 | 3608440.4 | 78120.56521 | 0.00170 | 0.85687 | 9.66834E-06 | 0.00171 |
| 492065.61 | 3608493.6 | 51730.61634 | 0.00113 | 0.56015 | 6.32035E-06 | 0.00113 |
| 492069 | 3608481.15 | 55673.63012 | 0.00121 | 0.60579 | 6.83533E-06 | 0.00122 |
| 492075.23 | 3608469.26 | 58198.33458 | 0.00127 | 0.64600 | 7.28903E-06 | 0.00127 |
| 492078.06 | 3608457.38 | 61580.37877 | 0.00134 | 0.69626 | 7.85613E-06 | 0.00135 |
| 492082.59 | 3608446.62 | 63614.62687 | 0.00138 | 0.73928 | 8.34154E-06 | 0.00139 |
| 491873.18 | 3608334.56 | 510026.4393 | 0.01109 | 7.44433 | 8.39968E-05 | 0.01118 |
| 491929.78 | 3608349.84 | 275582.9614 | 0.00599 | 3.59829 | 4.06007E-05 | 0.00603 |
| 491879.97 | 3608317.02 | 336657.7205 | 0.00732 | 7.99283 | 9.01857E-05 | 0.00741 |
| 491893.22 | 3608305.33 | 244539.0944 | 0.00532 | 7.09578 | 8.00640E-05 | 0.00540 |
| 491889.89 | 3608289.35 | 180966.3293 | 0.00394 | 7.41382 | 8.36525E-05 | 0.00402 |
| 491907.21 | 3608277.37 | 138377.9598 | 0.00301 | 6.01035 | 6.78167E-05 | 0.00308 |
| 491909.87 | 3608246.74 | 79154.74331 | 0.00172 | 4.98056 | 5.61973E-05 | 0.00178 |
| 491914.53 | 3608232.76 | 62103.64315 | 0.00135 | 4.32670 | 4.88196E-05 | 0.00140 |
| 491920.52 | 3608219.44 | 50060.99609 | 0.00109 | 3.72852 | 4.20701E-05 | 0.00113 |
| 491923.85 | 3608203.46 | 38703.0525 | 0.00084 | 3.15801 | 3.56329E-05 | 0.00088 |
| 491922.52 | 3608187.48 | 29639.67512 | 0.00064 | 2.68938 | 3.03451E-05 | 0.00067 |
| 491933.84 | 3608176.16 | 26152.75972 | 0.00057 | 2.31799 | 2.61546E-05 | 0.00059 |
| 491936.5 | 3608332.63 | 234523.5732 | 0.00510 | 3.92068 | 4.42383E-05 | 0.00514 |
| 491945.82 | 3608306.66 | 173169.8634 | 0.00377 | 4.13765 | 4.66865E-05 | 0.00381 |
| 491948.49 | 3608292.02 | 145064.0697 | 0.00315 | 4.17470 | 4.71045E-05 | 0.00320 |
| 491954.48 | 3608266.71 | 103224.5835 | 0.00224 | 3.92112 | 4.42433E-05 | 0.00229 |
| 491965.8 | 3608249.4 | 80108.96105 | 0.00174 | 3.44176 | 3.88345E-05 | 0.00178 |
| 491959.81 | 3608230.76 | 62686.59318 | 0.00136 | 3.27610 | 3.69653E-05 | 0.00140 |

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|---|---|---|---|---|---|---|
| 491973.12 | 3608219.44 | 53627.38352 | 0.00117 | 2.85414 | 3.22042E-05 | 0.00120 |
| 491965.13 | 3608198.8 | 40196.10183 | 0.00087 | 2.57399 | 2.90432E-05 | 0.00090 |
| 491987.11 | 3608190.14 | 36888.98902 | 0.00080 | 2.21423 | 2.49839E-05 | 0.00083 |
| 491975.79 | 3608366.59 | 178873.4984 | 0.00389 | 2.25235 | 2.54140E-05 | 0.00392 |
| 491980.45 | 3608353.27 | 169371.4764 | 0.00368 | 2.42270 | 2.73361E-05 | 0.00371 |
| 491988.44 | 3608337.29 | 152041.2074 | 0.00331 | 2.55377 | 2.88150E-05 | 0.00334 |
| 491991.77 | 3608319.32 | 136973.1522 | 0.00298 | 2.73973 | 3.09133E-05 | 0.00301 |
| 492001.09 | 3608294.68 | 110325.6905 | 0.00240 | 2.77387 | 3.12985E-05 | 0.00243 |
| 492006.41 | 3608282.03 | 97363.99563 | 0.00212 | 2.72184 | 3.07114E-05 | 0.00215 |
| 492013.07 | 3608266.05 | 82663.1572 | 0.00180 | 2.61058 | 2.94560E-05 | 0.00183 |
| 492013.07 | 3608251.4 | 72289.32148 | 0.00157 | 2.56586 | 2.89514E-05 | 0.00160 |
| 492028.39 | 3608241.41 | 62887.85268 | 0.00137 | 2.30116 | 2.59647E-05 | 0.00139 |
| 492019.07 | 3608222.77 | 53476.99655 | 0.00116 | 2.28757 | 2.58114E-05 | 0.00119 |
| 492045.7 | 3608210.78 | 45452.49661 | 0.00099 | 1.92083 | 2.16733E-05 | 0.00101 |
| 492031.05 | 3608385.23 | 112727.5006 | 0.00245 | 1.43445 | 1.61854E-05 | 0.00247 |
| 492035.71 | 3608369.92 | 110781.352 | 0.00241 | 1.55699 | 1.75680E-05 | 0.00243 |
| 492027.06 | 3608353.27 | 117475.215 | 0.00255 | 1.81736 | 2.05059E-05 | 0.00258 |
| 492046.36 | 3608339.96 | 100944.5021 | 0.00220 | 1.75203 | 1.97687E-05 | 0.00222 |
| 492040.37 | 3608324.64 | 101087.0358 | 0.00220 | 1.94963 | 2.19983E-05 | 0.00222 |
| 492057.02 | 3608313.32 | 87983.27103 | 0.00191 | 1.84423 | 2.08090E-05 | 0.00193 |
| 492055.69 | 3608297.34 | 82983.20924 | 0.00180 | 1.94539 | 2.19505E-05 | 0.00183 |
| 492059.02 | 3608282.03 | 75410.62761 | 0.00164 | 1.96082 | 2.21246E-05 | 0.00166 |
| 492069.67 | 3608270.04 | 67070.83152 | 0.00146 | 1.86581 | 2.10525E-05 | 0.00148 |
| 492061.68 | 3608253.4 | 62148.13063 | 0.00135 | 1.94735 | 2.19726E-05 | 0.00137 |
| 492078.32 | 3608241.41 | 53934.29894 | 0.00117 | 1.76457 | 1.99102E-05 | 0.00119 |
| 492079.66 | 3608226.76 | 48297.83936 | 0.00105 | 1.71233 | 1.93208E-05 | 0.00107 |
| 492069.51 | 3608395.3 | 84466.80709 | 0.00184 | 1.11315 | 1.25600E-05 | 0.00185 |
| 492076.17 | 3608375.99 | 83704.79149 | 0.00182 | 1.22143 | 1.37818E-05 | 0.00183 |
| 492085.49 | 3608364.01 | 79670.90896 | 0.00173 | 1.25216 | 1.41285E-05 | 0.00175 |
| 492102.14 | 3608406.62 | 66659.39687 | 0.00145 | 0.89809 | 1.01334E-05 | 0.00146 |
| 492129.44 | 3608410.61 | 56135.98193 | 0.00122 | 0.78540 | 8.86192E-06 | 0.00123 |
| 492095.48 | 3608352.69 | 75074.61459 | 0.00163 | 1.26584 | 1.42829E-05 | 0.00165 |
| 492094.15 | 3608336.04 | 74769.00478 | 0.00163 | 1.37757 | 1.55436E-05 | 0.00164 |
| 492135.43 | 3608348.69 | 59822.0277 | 0.00130 | 1.06697 | 1.20390E-05 | 0.00131 |
| 492101.47 | 3608312.74 | 68685.98252 | 0.00149 | 1.44695 | 1.63264E-05 | 0.00151 |
| 492120.78 | 3608244.15 | 47515.56367 | 0.00103 | 1.43698 | 1.62139E-05 | 0.00105 |
| 492106.8 | 3608297.42 | 63920.32042 | 0.00139 | 1.46755 | 1.65588E-05 | 0.00141 |
| 492168.06 | 3608256.14 | 42321.71042 | 0.00092 | 1.15696 | 1.30544E-05 | 0.00093 |
| 491832.47 | 3608106.99 | 4180.27461 | 0.00009 | 0.82048 | 9.25774E-06 | 0.00010 |
| 491853.78 | 3608116.31 | 5792.22388 | 0.00013 | 1.01929 | 1.15010E-05 | 0.00014 |
| 491874.42 | 3608123.64 | 7782.89246 | 0.00017 | 1.19844 | 1.35224E-05 | 0.00018 |
| 491899.72 | 3608128.96 | 10460.46231 | 0.00023 | 1.34443 | 1.51696E-05 | 0.00024 |
| 491836.47 | 3608093.01 | 3710.77936 | 0.00008 | 0.68642 | 7.74510E-06 | 0.00009 |
| 491877.09 | 3608106.33 | 6350.14878 | 0.00014 | 0.95334 | 1.07568E-05 | 0.00015 |

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| 491905.05 | 3608118.98 | 9510.661 | 0.00021 | 1.19114 | 1.34400E-05 | 0.00022 |
| 491907.71 | 3608101.66 | 7734.16153 | 0.00017 | 0.96262 | 1.08616E-05 | 0.00018 |
| 491883.74 | 3608091.01 | 5569.59303 | 0.00012 | 0.79462 | 8.96596E-06 | 0.00013 |
| 491848.45 | 3608065.04 | 3079.74148 | 0.00007 | 0.50327 | 5.67856E-06 | 0.00007 |
| 491853.12 | 3608053.06 | 2845.00857 | 0.00006 | 0.44410 | 5.01092E-06 | 0.00007 |
| 491873.09 | 3608063.05 | 3716.66742 | 0.00008 | 0.54139 | 6.10868E-06 | 0.00009 |
| 491909.71 | 3608072.37 | 5512.02895 | 0.00012 | 0.67690 | 7.63768E-06 | 0.00013 |
| 491921.03 | 3608059.05 | 5157.77157 | 0.00011 | 0.59639 | 6.72926E-06 | 0.00012 |
| 491925.69 | 3608040.41 | 4365.67123 | 0.00009 | 0.49036 | 5.53289E-06 | 0.00010 |
| 491856.44 | 3608031.75 | 2391.11038 | 0.00005 | 0.35189 | 3.97049E-06 | 0.00006 |
| 491867.1 | 3608010.44 | 2147.01462 | 0.00005 | 0.29200 | 3.29473E-06 | 0.00005 |
| 491875.09 | 3607976.49 | 1718.34971 | 0.00004 | 0.21562 | 2.43291E-06 | 0.00004 |
| 491918.37 | 3607991.8 | 2607.50294 | 0.00006 | 0.28963 | 3.26799E-06 | 0.00006 |
| 491945 | 3608000.46 | 3347.42556 | 0.00007 | 0.34252 | 3.86476E-06 | 0.00008 |
| 491935.09 | 3608141.53 | 15811.72963 | 0.00034 | 1.58326 | 1.78644E-05 | 0.00036 |
| 491960.9 | 3608152.59 | 20885.93528 | 0.00045 | 1.72935 | 1.95128E-05 | 0.00047 |
| 491988.54 | 3608164.57 | 26680.53337 | 0.00058 | 1.81216 | 2.04472E-05 | 0.00060 |
| 491946.15 | 3608114.81 | 11726.3336 | 0.00026 | 1.17209 | 1.32251E-05 | 0.00027 |
| 491988.54 | 3608129.55 | 17191.33706 | 0.00037 | 1.33436 | 1.50560E-05 | 0.00039 |
| 492018.04 | 3608107.44 | 14609.94337 | 0.00032 | 1.06121 | 1.19740E-05 | 0.00033 |
| 491955.37 | 3608089 | 8955.75981 | 0.00019 | 0.88806 | 1.00203E-05 | 0.00020 |
| 491963.66 | 3608059.51 | 6685.43509 | 0.00015 | 0.65486 | 7.38900E-06 | 0.00015 |
| 491984.86 | 3608059.51 | 7477.34499 | 0.00016 | 0.67462 | 7.61196E-06 | 0.00017 |
| 492031.86 | 3608066.89 | 9871.96109 | 0.00021 | 0.74218 | 8.37426E-06 | 0.00022 |
| 492020.8 | 3608040.16 | 7216.79234 | 0.00016 | 0.58284 | 6.57637E-06 | 0.00016 |
| 491977.49 | 3608027.26 | 5172.79373 | 0.00011 | 0.48467 | 5.46869E-06 | 0.00012 |
| 491983.94 | 3608007.9 | 4445.64427 | 0.00010 | 0.40747 | 4.59762E-06 | 0.00010 |
| 492044.76 | 3608018.04 | 6426.81543 | 0.00014 | 0.49104 | 5.54056E-06 | 0.00015 |
| 492048.45 | 3608001.45 | 5605.04851 | 0.00012 | 0.42857 | 4.83569E-06 | 0.00013 |
| 491999.6 | 3607989.47 | 4066.56556 | 0.00009 | 0.35545 | 4.01066E-06 | 0.00009 |
| 492038.31 | 3608171.95 | 30870.0028 | 0.00067 | 1.63629 | 1.84628E-05 | 0.00069 |
| 492047.53 | 3608155.36 | 26046.82328 | 0.00057 | 1.43556 | 1.61979E-05 | 0.00058 |
| 492086.23 | 3608187.61 | 34800.01113 | 0.00076 | 1.48031 | 1.67028E-05 | 0.00077 |
| 492095.45 | 3608171.03 | 29921.10786 | 0.00065 | 1.33609 | 1.50755E-05 | 0.00067 |
| 492053.98 | 3608123.1 | 18782.21306 | 0.00041 | 1.13753 | 1.28351E-05 | 0.00042 |
| 492109.27 | 3608145.22 | 23826.16581 | 0.00052 | 1.13313 | 1.27855E-05 | 0.00053 |
| 492058.59 | 3608100.06 | 14968.14869 | 0.00033 | 0.95426 | 1.07672E-05 | 0.00034 |
| 492123.1 | 3608113.89 | 18276.37331 | 0.00040 | 0.92760 | 1.04664E-05 | 0.00041 |
| 492135.08 | 3608094.53 | 15629.64783 | 0.00034 | 0.81189 | 9.16082E-06 | 0.00035 |
| 492076.1 | 3608065.04 | 11034.36032 | 0.00024 | 0.72072 | 8.13212E-06 | 0.00025 |
| 492085.31 | 3608030.02 | 8189.43118 | 0.00018 | 0.55127 | 6.22016E-06 | 0.00018 |
| 492139.69 | 3608065.96 | 12391.12724 | 0.00027 | 0.68060 | 7.67943E-06 | 0.00028 |
| 492139.69 | 3608212.5 | 37320.35401 | 0.00081 | 1.27558 | 1.43928E-05 | 0.00083 |
| 492183.92 | 3608227.24 | 35481.27135 | 0.00077 | 1.08028 | 1.21892E-05 | 0.00078 |

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| 492143.37 | 3608192.22 | 32542.94347 | 0.00071 | 1.20370 | 1.35817E-05 | 0.00072 |
| 492194.98 | 3608204.2 | 30785.83068 | 0.00067 | 1.01145 | 1.14125E-05 | 0.00068 |
| 492203.28 | 3608183.01 | 27032.74153 | 0.00059 | 0.94695 | 1.06847E-05 | 0.00060 |
| 492151.67 | 3608153.52 | 24592.58173 | 0.00053 | 1.03352 | 1.16615E-05 | 0.00055 |
| 492197.75 | 3608162.73 | 24382.24963 | 0.00053 | 0.91938 | 1.03737E-05 | 0.00054 |
| 492159.04 | 3608135.08 | 21371.48879 | 0.00046 | 0.93915 | 1.05967E-05 | 0.00048 |
| 492164.57 | 3608118.49 | 18861.03342 | 0.00041 | 0.86053 | 9.70964E-06 | 0.00042 |
| 492219.86 | 3608141.53 | 20767.73595 | 0.00045 | 0.80792 | 9.11602E-06 | 0.00046 |
| 492223.55 | 3608114.81 | 17605.82478 | 0.00038 | 0.73113 | 8.24958E-06 | 0.00039 |
| 492231.84 | 3608098.22 | 15772.55758 | 0.00034 | 0.67306 | 7.59435E-06 | 0.00035 |
| 492170.1 | 3608097.3 | 16098.24566 | 0.00035 | 0.76825 | 8.66841E-06 | 0.00036 |
| 492180.24 | 3608077.94 | 13955.35376 | 0.00030 | 0.68315 | 7.70820E-06 | 0.00031 |
| 492183.92 | 3608055.83 | 11864.67278 | 0.00026 | 0.60414 | 6.81671E-06 | 0.00026 |
| 492218.94 | 3608068.73 | 13103.09219 | 0.00028 | 0.60903 | 6.87188E-06 | 0.00029 |
| 492246.59 | 3608230.01 | 29459.61125 | 0.00064 | 0.84615 | 9.54739E-06 | 0.00065 |
| 492239.22 | 3608207.89 | 27744.96499 | 0.00060 | 0.86205 | 9.72679E-06 | 0.00061 |
| 492241.98 | 3608194.07 | 25986.19077 | 0.00057 | 0.84196 | 9.50011E-06 | 0.00057 |
| 492246.59 | 3608176.56 | 23745.69812 | 0.00052 | 0.80800 | 9.11693E-06 | 0.00053 |
| 492257.65 | 3608163.65 | 21811.33647 | 0.00047 | 0.76159 | 8.59327E-06 | 0.00048 |
| 492261.34 | 3608145.22 | 19794.15036 | 0.00043 | 0.72336 | 8.16191E-06 | 0.00044 |
| 492266.87 | 3608124.02 | 17592.10804 | 0.00038 | 0.67343 | 7.59853E-06 | 0.00039 |
| 492272.39 | 3608108.36 | 16065.59041 | 0.00035 | 0.63341 | 7.14697E-06 | 0.00036 |
| 492277.92 | 3608094.53 | 14809.70621 | 0.00032 | 0.59758 | 6.74269E-06 | 0.00033 |
| 492285.3 | 3608081.63 | 13701.00363 | 0.00030 | 0.56237 | 6.34540E-06 | 0.00030 |
| 491685.34 | 3608168.26 | 1905.1755 | 0.00004 | 0.95379 | 1.07619E-05 | 0.00005 |
| 491689.95 | 3608145.22 | 1616.14261 | 0.00004 | 0.68053 | 7.67864E-06 | 0.00004 |
| 491694.56 | 3608131.4 | 1490.70102 | 0.00003 | 0.57313 | 6.46681E-06 | 0.00004 |
| 491698.24 | 3608118.49 | 1381.51988 | 0.00003 | 0.49193 | 5.55061E-06 | 0.00004 |
| 491701.01 | 3608105.59 | 1277.01571 | 0.00003 | 0.42458 | 4.79067E-06 | 0.00003 |
| 491703.77 | 3608093.61 | 1191.86472 | 0.00003 | 0.37342 | 4.21342E-06 | 0.00003 |
| 491707.46 | 3608079.79 | 1107.7138 | 0.00002 | 0.32522 | 3.66956E-06 | 0.00003 |
| 491713.91 | 3608070.57 | 1083.94065 | 0.00002 | 0.30182 | 3.40553E-06 | 0.00003 |
| 491715.75 | 3608058.59 | 1012.41747 | 0.00002 | 0.26913 | 3.03668E-06 | 0.00003 |
| 491720.36 | 3608046.61 | 964.20218 | 0.00002 | 0.24322 | 2.74433E-06 | 0.00002 |
| 491732.34 | 3608014.36 | 849.87505 | 0.00002 | 0.18861 | 2.12815E-06 | 0.00002 |
| 491735.11 | 3608002.37 | 804.64468 | 0.00002 | 0.17194 | 1.94005E-06 | 0.00002 |
| 491735.11 | 3607991.32 | 754.55705 | 0.00002 | 0.15735 | 1.77543E-06 | 0.00002 |
| 491744.32 | 3607980.26 | 748.06203 | 0.00002 | 0.14774 | 1.66700E-06 | 0.00002 |
| 491747.09 | 3607967.35 | 707.05832 | 0.00002 | 0.13494 | 1.52257E-06 | 0.00002 |
| 491755.38 | 3607954.45 | 690.7191 | 0.00002 | 0.12526 | 1.41335E-06 | 0.00002 |
| 491759.07 | 3607939.71 | 651.23376 | 0.00001 | 0.11385 | 1.28461E-06 | 0.00002 |
| 491636.5 | 3608156.28 | 1317.55011 | 0.00003 | 0.61405 | 6.92853E-06 | 0.00004 |
| 491618.06 | 3608148.91 | 1155.56399 | 0.00003 | 0.50736 | 5.72471E-06 | 0.00003 |
| 491598.71 | 3608143.38 | 1035.22776 | 0.00002 | 0.42946 | 4.84574E-06 | 0.00003 |

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| 491579.36 | 3608134.16 | 915.03025 | 0.00002 | 0.35221 | 3.97410E-06 | 0.00002 |
| 491565.53 | 3608132.32 | 865.75646 | 0.00002 | 0.32156 | 3.62827E-06 | 0.00002 |
| 491548.94 | 3608123.1 | 781.22765 | 0.00002 | 0.27180 | 3.06681E-06 | 0.00002 |
| 491654.01 | 3608119.42 | 1093.05063 | 0.00002 | 0.41940 | 4.73223E-06 | 0.00003 |
| 491663.22 | 3608133.24 | 1261.55124 | 0.00003 | 0.51410 | 5.80076E-06 | 0.00003 |
| 491657.69 | 3608106.51 | 1016.55434 | 0.00002 | 0.36746 | 4.14617E-06 | 0.00003 |
| 491663.22 | 3608094.53 | 961.6658 | 0.00002 | 0.32912 | 3.71357E-06 | 0.00002 |
| 491674.28 | 3608094.53 | 1013.91396 | 0.00002 | 0.34110 | 3.84874E-06 | 0.00003 |
| 491681.65 | 3608086.24 | 996.05117 | 0.00002 | 0.31991 | 3.60965E-06 | 0.00003 |
| 491686.26 | 3608072.42 | 932.10878 | 0.00002 | 0.28186 | 3.18032E-06 | 0.00002 |
| 491663.22 | 3608078.87 | 868.71747 | 0.00002 | 0.28068 | 3.16700E-06 | 0.00002 |
| 491671.52 | 3608072.42 | 865.98489 | 0.00002 | 0.27000 | 3.04650E-06 | 0.00002 |
| 491676.12 | 3608058.59 | 812.08348 | 0.00002 | 0.23991 | 2.70698E-06 | 0.00002 |
| 491678.89 | 3608048.45 | 773.86256 | 0.00002 | 0.22037 | 2.48651E-06 | 0.00002 |
| 491690.87 | 3608053.98 | 850.17689 | 0.00002 | 0.23929 | 2.69999E-06 | 0.00002 |
| 491695.48 | 3608035.55 | 779.20615 | 0.00002 | 0.20522 | 2.31556E-06 | 0.00002 |
| 491701.93 | 3608024.49 | 755.88226 | 0.00002 | 0.18973 | 2.14079E-06 | 0.00002 |
| 491624.52 | 3608121.26 | 982.59795 | 0.00002 | 0.38106 | 4.29962E-06 | 0.00003 |
| 491615.3 | 3608116.65 | 923.03046 | 0.00002 | 0.34920 | 3.94014E-06 | 0.00002 |
| 491603.32 | 3608112.97 | 867.25904 | 0.00002 | 0.31999 | 3.61055E-06 | 0.00002 |
| 491590.42 | 3608107.44 | 806.51646 | 0.00002 | 0.28739 | 3.24271E-06 | 0.00002 |
| 491582.12 | 3608104.67 | 774.91834 | 0.00002 | 0.27053 | 3.05248E-06 | 0.00002 |
| 491567.38 | 3608101.91 | 732.68088 | 0.00002 | 0.24793 | 2.79747E-06 | 0.00002 |
| 491553.55 | 3608094.53 | 678.74608 | 0.00001 | 0.21986 | 2.48075E-06 | 0.00002 |
| 491560 | 3608079.79 | 637.30235 | 0.00001 | 0.20076 | 2.26524E-06 | 0.00002 |
| 491571.98 | 3608083.47 | 669.156 | 0.00001 | 0.21644 | 2.44216E-06 | 0.00002 |
| 491585.81 | 3608088.08 | 711.15424 | 0.00002 | 0.23709 | 2.67516E-06 | 0.00002 |
| 491599.63 | 3608094.53 | 766.78998 | 0.00002 | 0.26452 | 2.98467E-06 | 0.00002 |
| 491614.38 | 3608097.3 | 814.843 | 0.00002 | 0.28675 | 3.23549E-06 | 0.00002 |
| 491626.36 | 3608102.83 | 877.45895 | 0.00002 | 0.31637 | 3.56971E-06 | 0.00002 |
| 491630.97 | 3608077.94 | 763.464 | 0.00002 | 0.25250 | 2.84904E-06 | 0.00002 |
| 491613.46 | 3608071.49 | 696.20751 | 0.00002 | 0.22558 | 2.54529E-06 | 0.00002 |
| 491635.57 | 3608062.28 | 706.00578 | 0.00002 | 0.22214 | 2.50648E-06 | 0.00002 |
| 491647.56 | 3608065.04 | 748.59786 | 0.00002 | 0.23548 | 2.65700E-06 | 0.00002 |
| 491568.3 | 3608046.61 | 544.90445 | 0.00001 | 0.16037 | 1.80951E-06 | 0.00001 |
| 491556.32 | 3608038.32 | 510.16707 | 0.00001 | 0.14559 | 1.64274E-06 | 0.00001 |
| 491572.91 | 3608032.79 | 512.18472 | 0.00001 | 0.14698 | 1.65842E-06 | 0.00001 |
| 491594.1 | 3608048.45 | 581.94028 | 0.00001 | 0.17577 | 1.98327E-06 | 0.00001 |
| 491589.49 | 3608035.55 | 537.61888 | 0.00001 | 0.15714 | 1.77306E-06 | 0.00001 |
| 491608.85 | 3608039.24 | 573.67335 | 0.00001 | 0.17041 | 1.92279E-06 | 0.00001 |
| 491612.53 | 3608025.41 | 537.6352 | 0.00001 | 0.15465 | 1.74497E-06 | 0.00001 |
| 491625.44 | 3608040.16 | 603.03153 | 0.00001 | 0.17932 | 2.02333E-06 | 0.00002 |
| 491636.5 | 3608029.1 | 586.7769 | 0.00001 | 0.16872 | 1.90372E-06 | 0.00001 |
| 491654.01 | 3608027.26 | 616.81819 | 0.00001 | 0.17328 | 1.95517E-06 | 0.00002 |

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| 491643.87 | 3608011.59 | 547.07422 | 0.00001 | 0.14986 | 1.69092E-06 | 0.00001 |
| 491667.83 | 3608015.28 | 609.90493 | 0.00001 | 0.16255 | 1.83410E-06 | 0.00002 |
| 491689.03 | 3607995 | 601.27188 | 0.00001 | 0.14560 | 1.64285E-06 | 0.00001 |
| 491681.65 | 3607976.57 | 528.80566 | 0.00001 | 0.12538 | 1.41470E-06 | 0.00001 |
| 491704.69 | 3607986.71 | 621.67149 | 0.00001 | 0.14150 | 1.59659E-06 | 0.00002 |
| 491713.91 | 3607971.96 | 603.37593 | 0.00001 | 0.12953 | 1.46153E-06 | 0.00001 |
| 491725.89 | 3607958.14 | 598.23444 | 0.00001 | 0.12042 | 1.35874E-06 | 0.00001 |
| 491711.15 | 3607949.84 | 531.94139 | 0.00001 | 0.11043 | 1.24602E-06 | 0.00001 |
| 491729.58 | 3607943.39 | 565.80717 | 0.00001 | 0.10966 | 1.23733E-06 | 0.00001 |
| 491714.83 | 3607935.1 | 504.2339 | 0.00001 | 0.10089 | 1.13837E-06 | 0.00001 |
| 491724.97 | 3607923.12 | 500.55027 | 0.00001 | 0.09521 | 1.07429E-06 | 0.00001 |
| 491737.87 | 3607928.65 | 548.86938 | 0.00001 | 0.10112 | 1.14097E-06 | 0.00001 |
| 491735.11 | 3607910.22 | 495.12574 | 0.00001 | 0.08948 | 1.00963E-06 | 0.00001 |
| 491558.16 | 3608010.67 | 446.76664 | 0.00001 | 0.12114 | 1.36686E-06 | 0.00001 |
| 491579.36 | 3607998.69 | 437.37975 | 0.00001 | 0.11796 | 1.33098E-06 | 0.00001 |
| 491595.95 | 3608003.3 | 462.03995 | 0.00001 | 0.12660 | 1.42847E-06 | 0.00001 |
| 491613.46 | 3607995.92 | 463.12885 | 0.00001 | 0.12513 | 1.41188E-06 | 0.00001 |
| 491599.63 | 3607983.94 | 423.43448 | 0.00001 | 0.11194 | 1.26306E-06 | 0.00001 |
| 491623.59 | 3607979.33 | 437.88119 | 0.00001 | 0.11409 | 1.28731E-06 | 0.00001 |
| 491640.18 | 3607983.02 | 467.47351 | 0.00001 | 0.12094 | 1.36461E-06 | 0.00001 |
| 491660.46 | 3607968.28 | 466.12239 | 0.00001 | 0.11369 | 1.28280E-06 | 0.00001 |
| 491659.54 | 3607951.69 | 429.57667 | 0.00001 | 0.10173 | 1.14785E-06 | 0.00001 |
| 491677.05 | 3607950.77 | 457.63343 | 0.00001 | 0.10432 | 1.17708E-06 | 0.00001 |
| 491682.58 | 3607937.86 | 441.04738 | 0.00001 | 0.09695 | 1.09392E-06 | 0.00001 |
| 491670.6 | 3607928.65 | 403.26628 | 0.00001 | 0.08970 | 1.01211E-06 | 0.00001 |
| 491694.56 | 3607921.27 | 430.62047 | 0.00001 | 0.08923 | 1.00681E-06 | 0.00001 |
| 491682.58 | 3607913.9 | 396.2858 | 0.00001 | 0.08368 | 9.44189E-07 | 0.00001 |
| 491682.58 | 3607901.92 | 376.39613 | 0.00001 | 0.07800 | 8.80099E-07 | 0.00001 |
| 491705.62 | 3607902.84 | 416.61693 | 0.00001 | 0.08134 | 9.17786E-07 | 0.00001 |
| 491561.62 | 3607964.09 | 361.52381 | 0.00001 | 0.09104 | 1.02723E-06 | 0.00001 |
| 491578.12 | 3607959.66 | 363.39121 | 0.00001 | 0.09175 | 1.03525E-06 | 0.00001 |
| 491573.42 | 3607943.99 | 336.42249 | 0.00001 | 0.08283 | 9.34598E-07 | 0.00001 |
| 491600.84 | 3607959.66 | 378.65901 | 0.00001 | 0.09601 | 1.08331E-06 | 0.00001 |
| 491591.44 | 3607944.77 | 347.74317 | 0.00001 | 0.08613 | 9.71833E-07 | 0.00001 |
| 491603.97 | 3607934.59 | 340.58815 | 0.00001 | 0.08299 | 9.36403E-07 | 0.00001 |
| 491615.72 | 3607947.91 | 370.81638 | 0.00001 | 0.09183 | 1.03615E-06 | 0.00001 |
| 491636.09 | 3607933.02 | 366.04732 | 0.00001 | 0.08695 | 9.81085E-07 | 0.00001 |
| 491625.12 | 3607917.35 | 332.03167 | 0.00001 | 0.07785 | 8.78407E-07 | 0.00001 |
| 491644.71 | 3607918.92 | 353.35695 | 0.00001 | 0.08111 | 9.15191E-07 | 0.00001 |
| 491642.36 | 3607896.99 | 320.10969 | 0.00001 | 0.07132 | 8.04727E-07 | 0.00001 |
| 491658.03 | 3607905.6 | 348.86545 | 0.00001 | 0.07669 | 8.65318E-07 | 0.00001 |
| 491665.08 | 3607887.59 | 331.99941 | 0.00001 | 0.07005 | 7.90397E-07 | 0.00001 |
| 491647.06 | 3607883.67 | 307.77096 | 0.00001 | 0.06677 | 7.53388E-07 | 0.00001 |
| 491564.8 | 3607922.84 | 303.4827 | 0.00001 | 0.07232 | 8.16010E-07 | 0.00001 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 491587.52 | 3607913.44 | 301.75849 | 0.00001 | 0.07149 | 8.06645E-07 | 0.00001 |
| 491573.42 | 3607903.25 | 283.1073 | 0.00001 | 0.06604 | 7.45151E-07 | 0.00001 |
| 491607.11 | 3607896.2 | 291.63159 | 0.00001 | 0.06721 | 7.58352E-07 | 0.00001 |
| 491603.97 | 3607878.97 | 270.49998 | 0.00001 | 0.06106 | 6.88960E-07 | 0.00001 |
| 491621.99 | 3607877.4 | 279.96461 | 0.00001 | 0.06223 | 7.02161E-07 | 0.00001 |
| 491892.25 | 3607962.79 | 1729.53705 | 0.00004 | 0.20211 | 2.28047E-06 | 0.00004 |
| 491943.96 | 3607975.32 | 2655.68093 | 0.00006 | 0.26865 | 3.03127E-06 | 0.00006 |
| 491586.79 | 3608712.31 | 8409.91149 | 0.00018 | 0.25537 | 2.88142E-06 | 0.00019 |
| 491579.14 | 3608732.72 | 7291.76171 | 0.00016 | 0.22345 | 2.52126E-06 | 0.00016 |
| 491579.14 | 3608751.86 | 6533.0195 | 0.00014 | 0.19896 | 2.24493E-06 | 0.00014 |
| 491563.83 | 3608778.64 | 5465.98803 | 0.00012 | 0.17032 | 1.92178E-06 | 0.00012 |
| 491558.73 | 3608797.78 | 4905.57279 | 0.00011 | 0.15360 | 1.73312E-06 | 0.00011 |
| 491545.97 | 3608824.57 | 4212.34249 | 0.00009 | 0.13396 | 1.51151E-06 | 0.00009 |
| 491543.42 | 3608838.6 | 3929.01444 | 0.00009 | 0.12516 | 1.41222E-06 | 0.00009 |
| 491534.49 | 3608869.21 | 3382.56676 | 0.00007 | 0.10868 | 1.22627E-06 | 0.00007 |
| 491635.26 | 3608725.07 | 8556.303 | 0.00019 | 0.23968 | 2.70439E-06 | 0.00019 |
| 491665.88 | 3608731.45 | 8360.83188 | 0.00018 | 0.23355 | 2.63522E-06 | 0.00018 |
| 491654.4 | 3608756.96 | 6906.22993 | 0.00015 | 0.19926 | 2.24832E-06 | 0.00015 |
| 491627.61 | 3608748.03 | 7224.74672 | 0.00016 | 0.20756 | 2.34197E-06 | 0.00016 |
| 491621.23 | 3608764.61 | 6439.38955 | 0.00014 | 0.18774 | 2.11833E-06 | 0.00014 |
| 491651.85 | 3608772.27 | 6214.64483 | 0.00014 | 0.18240 | 2.05808E-06 | 0.00014 |
| 491635.26 | 3608823.29 | 4517.60807 | 0.00010 | 0.13801 | 1.55721E-06 | 0.00010 |
| 491608.48 | 3608810.54 | 4835.62481 | 0.00011 | 0.14544 | 1.64105E-06 | 0.00011 |
| 491603.37 | 3608829.67 | 4336.69451 | 0.00009 | 0.13187 | 1.48793E-06 | 0.00010 |
| 491627.61 | 3608838.6 | 4143.13594 | 0.00009 | 0.12751 | 1.43874E-06 | 0.00009 |
| 491622.51 | 3608866.66 | 3564.66602 | 0.00008 | 0.11155 | 1.25865E-06 | 0.00008 |
| 491590.62 | 3608859.01 | 3701.20145 | 0.00008 | 0.11431 | 1.28980E-06 | 0.00008 |
| 491586.79 | 3608875.59 | 3404.77827 | 0.00007 | 0.10597 | 1.19569E-06 | 0.00008 |
| 491617.41 | 3608884.52 | 3257.20091 | 0.00007 | 0.10280 | 1.15993E-06 | 0.00007 |
| 491707.97 | 3608753.13 | 7153.25801 | 0.00016 | 0.20753 | 2.34163E-06 | 0.00016 |
| 491702.87 | 3608768.44 | 6396.431 | 0.00014 | 0.18982 | 2.14180E-06 | 0.00014 |
| 491696.49 | 3608791.4 | 5468.59705 | 0.00012 | 0.16695 | 1.88375E-06 | 0.00012 |
| 491688.84 | 3608805.43 | 4998.74356 | 0.00011 | 0.15457 | 1.74406E-06 | 0.00011 |
| 491683.74 | 3608834.77 | 4189.63762 | 0.00009 | 0.13298 | 1.50046E-06 | 0.00009 |
| 491674.81 | 3608851.36 | 3820.01121 | 0.00008 | 0.12236 | 1.38063E-06 | 0.00008 |
| 491669.71 | 3608874.32 | 3379.43532 | 0.00007 | 0.10986 | 1.23959E-06 | 0.00007 |
| 491667.15 | 3608903.66 | 2914.7126 | 0.00006 | 0.09656 | 1.08952E-06 | 0.00006 |
| 491741.14 | 3608758.23 | 6978.56924 | 0.00015 | 0.20192 | 2.27833E-06 | 0.00015 |
| 491733.49 | 3608772.27 | 6281.67673 | 0.00014 | 0.18683 | 2.10806E-06 | 0.00014 |
| 491727.11 | 3608797.78 | 5275.56965 | 0.00011 | 0.16283 | 1.83726E-06 | 0.00012 |
| 491720.73 | 3608809.26 | 4893.44238 | 0.00011 | 0.15316 | 1.72815E-06 | 0.00011 |
| 491711.8 | 3608833.5 | 4219.16689 | 0.00009 | 0.13521 | 1.52562E-06 | 0.00009 |
| 491706.7 | 3608855.18 | 3729.43269 | 0.00008 | 0.12169 | 1.37307E-06 | 0.00008 |
| 491701.6 | 3608871.77 | 3409.51209 | 0.00007 | 0.11253 | 1.26971E-06 | 0.00008 |

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|---|---|---|---|---|---|---|
| 491699.05 | 3608899.83 | 2955.05305 | 0.00006 | 0.09935 | 1.12100E-06 | 0.00007 |
| 491778.13 | 3608770.99 | 6583.73997 | 0.00014 | 0.18625 | 2.10152E-06 | 0.00015 |
| 491773.03 | 3608791.4 | 5700.1801 | 0.00012 | 0.16812 | 1.89695E-06 | 0.00013 |
| 491762.83 | 3608811.81 | 4952.10555 | 0.00011 | 0.15217 | 1.71698E-06 | 0.00011 |
| 491760.28 | 3608828.39 | 4468.7311 | 0.00010 | 0.14044 | 1.58463E-06 | 0.00010 |
| 491755.17 | 3608851.36 | 3900.00547 | 0.00008 | 0.12606 | 1.42238E-06 | 0.00009 |
| 491747.52 | 3608869.21 | 3518.43567 | 0.00008 | 0.11604 | 1.30932E-06 | 0.00008 |
| 491738.59 | 3608884.52 | 3229.67762 | 0.00007 | 0.10809 | 1.21961E-06 | 0.00007 |
| 491738.59 | 3608902.38 | 2954.26121 | 0.00006 | 0.10010 | 1.12946E-06 | 0.00007 |
| 491804.92 | 3608781.2 | 6318.52159 | 0.00014 | 0.17405 | 1.96386E-06 | 0.00014 |
| 491802.37 | 3608806.71 | 5337.54307 | 0.00012 | 0.15414 | 1.73921E-06 | 0.00012 |
| 491789.61 | 3608822.02 | 4788.76329 | 0.00010 | 0.14421 | 1.62717E-06 | 0.00011 |
| 491788.34 | 3608839.87 | 4305.57852 | 0.00009 | 0.13287 | 1.49922E-06 | 0.00010 |
| 491774.31 | 3608853.91 | 3917.0837 | 0.00009 | 0.12485 | 1.40872E-06 | 0.00009 |
| 491778.13 | 3608875.59 | 3499.89081 | 0.00008 | 0.11350 | 1.28066E-06 | 0.00008 |
| 491773.03 | 3608892.17 | 3197.355 | 0.00007 | 0.10568 | 1.19242E-06 | 0.00007 |
| 491770.48 | 3608916.41 | 2832.77258 | 0.00006 | 0.09553 | 1.07790E-06 | 0.00006 |
| 491848.29 | 3608793.95 | 5992.71087 | 0.00013 | 0.15787 | 1.78130E-06 | 0.00013 |
| 491845.74 | 3608815.64 | 5237.45045 | 0.00011 | 0.14361 | 1.62040E-06 | 0.00012 |
| 491835.54 | 3608834.77 | 4650.58333 | 0.00010 | 0.13316 | 1.50249E-06 | 0.00010 |
| 491829.16 | 3608859.01 | 4039.55505 | 0.00009 | 0.12055 | 1.36020E-06 | 0.00009 |
| 491824.06 | 3608874.32 | 3704.88695 | 0.00008 | 0.11337 | 1.27919E-06 | 0.00008 |
| 491824.06 | 3608890.9 | 3400.78112 | 0.00007 | 0.10597 | 1.19569E-06 | 0.00008 |
| 491820.23 | 3608904.93 | 3159.29467 | 0.00007 | 0.10030 | 1.13172E-06 | 0.00007 |
| 491818.95 | 3608924.07 | 2877.04023 | 0.00006 | 0.09309 | 1.05036E-06 | 0.00006 |
| 491817.68 | 3608940.65 | 2660.42732 | 0.00006 | 0.08740 | 9.86163E-07 | 0.00006 |
| 491873.81 | 3608822.02 | 5086.34504 | 0.00011 | 0.13605 | 1.53510E-06 | 0.00011 |
| 491864.88 | 3608842.43 | 4525.64689 | 0.00010 | 0.12605 | 1.42226E-06 | 0.00010 |
| 491859.77 | 3608864.11 | 4016.05242 | 0.00009 | 0.11590 | 1.30774E-06 | 0.00009 |
| 491855.95 | 3608878.14 | 3724.29971 | 0.00008 | 0.10990 | 1.24004E-06 | 0.00008 |
| 491849.57 | 3608899.83 | 3323.74804 | 0.00007 | 0.10134 | 1.14345E-06 | 0.00007 |
| 491857.22 | 3608915.14 | 3103.21069 | 0.00007 | 0.09528 | 1.07508E-06 | 0.00007 |
| 491869.98 | 3608930.44 | 2913.47447 | 0.00006 | 0.08953 | 1.01020E-06 | 0.00006 |
| 491890.39 | 3608932.99 | 2909.41727 | 0.00006 | 0.08770 | 9.89548E-07 | 0.00006 |
| 491915.9 | 3608818.19 | 5123.01474 | 0.00011 | 0.13148 | 1.48353E-06 | 0.00011 |
| 491914.63 | 3608838.6 | 4596.72161 | 0.00010 | 0.12148 | 1.37070E-06 | 0.00010 |
| 491904.42 | 3608855.18 | 4234.93498 | 0.00009 | 0.11528 | 1.30074E-06 | 0.00009 |
| 491903.14 | 3608874.32 | 3846.14771 | 0.00008 | 0.10735 | 1.21126E-06 | 0.00008 |
| 491895.49 | 3608897.28 | 3438.65333 | 0.00007 | 0.09929 | 1.12032E-06 | 0.00008 |
| 491915.9 | 3608899.83 | 3397.17383 | 0.00007 | 0.09661 | 1.09008E-06 | 0.00007 |
| 491936.31 | 3608902.38 | 3337.66685 | 0.00007 | 0.09379 | 1.05826E-06 | 0.00007 |
| 491952.89 | 3608910.03 | 3198.84616 | 0.00007 | 0.08973 | 1.01245E-06 | 0.00007 |
| 491966.93 | 3608922.79 | 3001.95003 | 0.00007 | 0.08465 | 9.55133E-07 | 0.00007 |
| 491923.55 | 3608947.03 | 2752.86059 | 0.00006 | 0.08160 | 9.20719E-07 | 0.00006 |

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|---|---|---|---|---|---|---|
| 491945.24 | 3608961.06 | 2590.66041 | 0.00006 | 0.07653 | 8.63513E-07 | 0.00006 |
| 491737.31 | 3608925.34 | 2646.50014 | 0.00006 | 0.09097 | 1.02644E-06 | 0.00006 |
| CONCUNIT ug/ | m^3 | 0 | 0.00000 | 0.00000 | 0.00000E+00 | 0.00000 |
| DEPUNIT g/m^ | 2 | 0 | 0.00000 | 0.00000 | 0.00000E+00 | 0.00000 |

## Moss Street

**Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Infant**

| | | |
|---|---|---|
| **Cancer Potency Factor:** | 1.1 | $(mg/kg\text{-}day)^{-1}$ |
| **Exposure Frequency** | 350 | days/year |
| **Averaging Period** | 25550 | days |

| Year | Unit DPM Concentration (ug/m3) | Age Sensitivty Factor | Daily Breathing Rate (L/kg-day) | Time At Home Factor | Exposure Duration (years) | Unit Risk Factor $(ug/m3)^{-1}$ |
|---|---|---|---|---|---|---|
| 3rd Trimester | 1 | 10 | 361 | 1 | 0.25 | 13.6 |
| 1 | 1 | 10 | 1090 | 1 | 1 | 164.2 |

Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines

## Moss Street

**Tier IV mitigat at Sensitive Recptors**

**Estimated Cancer Risks from Construction DPM - Infant Receptors**

| X (m) | Y (m) | InfantCancer Risk (3rd Trimester) 2019 (/million) | Infant Cancer Risk (year 1) 2020 (/million) | Total Cancer Risk (/million) |
|---|---|---|---|---|
| 491856.94 | 3608423.76 | 0.240 | 2.899 | 3.13938 |
| 491770.82 | 3608296.56 | 0.035 | 0.427 | 0.46267 |
| 491786.69 | 3608300.4 | 0.067 | 0.815 | 0.88202 |
| 491777.07 | 3608270.58 | 0.016 | 0.192 | 0.20828 |
| 491794.39 | 3608275.87 | 0.029 | 0.347 | 0.37625 |
| 491789.88 | 3608254.44 | 0.013 | 0.155 | 0.16731 |
| 491793.88 | 3608239.79 | 0.009 | 0.112 | 0.12120 |
| 491796.54 | 3608225.81 | 0.007 | 0.084 | 0.09110 |
| 491799.2 | 3608213.16 | 0.006 | 0.067 | 0.07268 |
| 491804.53 | 3608198.51 | 0.005 | 0.055 | 0.05931 |
| 491835.16 | 3608317.03 | 0.152 | 1.837 | 1.98902 |
| 491837.82 | 3608303.71 | 0.105 | 1.264 | 1.36849 |
| 491843.81 | 3608287.73 | 0.067 | 0.806 | 0.87233 |
| 491851.14 | 3608274.41 | 0.048 | 0.575 | 0.62281 |
| 491863.07 | 3608247.22 | 0.026 | 0.314 | 0.33998 |
| 491867.68 | 3608231.55 | 0.019 | 0.228 | 0.24741 |
| 491875.05 | 3608218.65 | 0.015 | 0.184 | 0.19955 |
| 491878.74 | 3608195.61 | 0.010 | 0.122 | 0.13171 |
| 491885.19 | 3608177.18 | 0.008 | 0.093 | 0.10020 |
| 491807.78 | 3608183.63 | 0.004 | 0.044 | 0.04776 |
| 491812.39 | 3608167.97 | 0.003 | 0.036 | 0.03940 |
| 491819.76 | 3608146.77 | 0.002 | 0.029 | 0.03153 |
| 491840.03 | 3608155.06 | 0.003 | 0.041 | 0.04467 |
| 491868.6 | 3608170.73 | 0.006 | 0.072 | 0.07747 |
| 491865.26 | 3608414.36 | 0.224 | 2.706 | 2.93046 |
| 491867.52 | 3608403.04 | 0.229 | 2.770 | 2.99909 |

| Maximum Caner Risk |
|---|
| 3.1 |
| **SDAQMD threshold of significance** |
| 10 |
| **Exceed thresholds?** |
| No |

| | | | | |
|---|---|---|---|---|
| 491872.05 | 3608392.29 | 0.225 | 2.716 | 2.94074 |
| 491874.88 | 3608377.58 | 0.227 | 2.743 | 2.97044 |
| 491886.76 | 3608431.91 | 0.148 | 1.785 | 1.93248 |
| 491890.73 | 3608422.29 | 0.148 | 1.791 | 1.93954 |
| 491896.39 | 3608409.84 | 0.147 | 1.772 | 1.91896 |
| 491900.35 | 3608397.38 | 0.147 | 1.775 | 1.92159 |
| 491903.74 | 3608384.93 | 0.146 | 1.768 | 1.91453 |
| 491912.8 | 3608444.92 | 0.098 | 1.183 | 1.28122 |
| 491917.89 | 3608432.47 | 0.100 | 1.209 | 1.30964 |
| 491921.29 | 3608418.89 | 0.104 | 1.253 | 1.35671 |
| 491926.95 | 3608408.14 | 0.102 | 1.235 | 1.33707 |
| 491930.91 | 3608396.25 | 0.102 | 1.234 | 1.33593 |
| 491950.72 | 3608425.12 | 0.074 | 0.894 | 0.96826 |
| 491954.11 | 3608416.06 | 0.075 | 0.903 | 0.97817 |
| 491959.21 | 3608404.74 | 0.074 | 0.899 | 0.97394 |
| 491984.11 | 3608467.56 | 0.042 | 0.506 | 0.54779 |
| 491987.5 | 3608453.98 | 0.045 | 0.544 | 0.58860 |
| 491993.16 | 3608442.66 | 0.046 | 0.558 | 0.60444 |
| 491998.26 | 3608432.47 | 0.047 | 0.567 | 0.61416 |
| 492002.22 | 3608421.15 | 0.048 | 0.580 | 0.62829 |
| 492012.41 | 3608475.49 | 0.032 | 0.384 | 0.41609 |
| 492015.24 | 3608463.6 | 0.034 | 0.411 | 0.44555 |
| 492020.9 | 3608451.15 | 0.036 | 0.429 | 0.46452 |
| 492024.29 | 3608441.53 | 0.037 | 0.443 | 0.47963 |
| 492028.25 | 3608428.51 | 0.038 | 0.460 | 0.49825 |
| 492037.31 | 3608486.24 | 0.025 | 0.299 | 0.32348 |
| 492042.4 | 3608472.09 | 0.027 | 0.322 | 0.34841 |
| 492046.36 | 3608461.34 | 0.028 | 0.337 | 0.36531 |
| 492050.89 | 3608450.58 | 0.029 | 0.350 | 0.37885 |
| 492055.42 | 3608440.4 | 0.030 | 0.359 | 0.38888 |
| 492065.61 | 3608493.6 | 0.020 | 0.238 | 0.25750 |
| 492069 | 3608481.15 | 0.021 | 0.256 | 0.27713 |
| 492075.23 | 3608469.26 | 0.022 | 0.268 | 0.28972 |
| 492078.06 | 3608457.38 | 0.023 | 0.283 | 0.30657 |

| | | | | |
|---|---|---|---|---|
| 492082.59 | 3608446.62 | 0.024 | 0.292 | 0.31672 |
| 491873.18 | 3608334.56 | 0.194 | 2.347 | 2.54100 |
| 491929.78 | 3608349.84 | 0.105 | 1.268 | 1.37249 |
| 491879.97 | 3608317.02 | 0.129 | 1.552 | 1.68080 |
| 491893.22 | 3608305.33 | 0.093 | 1.129 | 1.22237 |
| 491889.89 | 3608289.35 | 0.069 | 0.838 | 0.90708 |
| 491907.21 | 3608277.37 | 0.053 | 0.641 | 0.69400 |
| 491909.87 | 3608246.74 | 0.030 | 0.368 | 0.39876 |
| 491914.53 | 3608232.76 | 0.024 | 0.289 | 0.31334 |
| 491920.52 | 3608219.44 | 0.019 | 0.234 | 0.25286 |
| 491923.85 | 3608203.46 | 0.015 | 0.181 | 0.19580 |
| 491922.52 | 3608187.48 | 0.011 | 0.139 | 0.15026 |
| 491933.84 | 3608176.16 | 0.010 | 0.122 | 0.13252 |
| 491936.5 | 3608332.63 | 0.089 | 1.080 | 1.16899 |
| 491945.82 | 3608306.66 | 0.066 | 0.798 | 0.86460 |
| 491948.49 | 3608292.02 | 0.055 | 0.670 | 0.72509 |
| 491954.48 | 3608266.71 | 0.040 | 0.478 | 0.51705 |
| 491965.8 | 3608249.4 | 0.031 | 0.371 | 0.40172 |
| 491959.81 | 3608230.76 | 0.024 | 0.291 | 0.31503 |
| 491973.12 | 3608219.44 | 0.021 | 0.249 | 0.26956 |
| 491965.13 | 3608198.8 | 0.015 | 0.187 | 0.20255 |
| 491987.11 | 3608190.14 | 0.014 | 0.172 | 0.18571 |
| 491975.79 | 3608366.59 | 0.068 | 0.823 | 0.89075 |
| 491980.45 | 3608353.27 | 0.065 | 0.779 | 0.84377 |
| 491988.44 | 3608337.29 | 0.058 | 0.700 | 0.75787 |
| 491991.77 | 3608319.32 | 0.052 | 0.631 | 0.68327 |
| 492001.09 | 3608294.68 | 0.042 | 0.509 | 0.55099 |
| 492006.41 | 3608282.03 | 0.037 | 0.449 | 0.48657 |
| 492013.07 | 3608266.05 | 0.032 | 0.382 | 0.41345 |
| 492013.07 | 3608251.4 | 0.028 | 0.334 | 0.36189 |
| 492028.39 | 3608241.41 | 0.024 | 0.291 | 0.31490 |
| 492019.07 | 3608222.77 | 0.021 | 0.248 | 0.26816 |
| 492045.7 | 3608210.78 | 0.017 | 0.210 | 0.22790 |
| 492031.05 | 3608385.23 | 0.043 | 0.518 | 0.56138 |

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| 492035.71 | 3608369.92 | 0.042 | 0.510 | 0.55186 |
| 492027.06 | 3608353.27 | 0.045 | 0.541 | 0.58539 |
| 492046.36 | 3608339.96 | 0.038 | 0.465 | 0.50324 |
| 492040.37 | 3608324.64 | 0.039 | 0.466 | 0.50417 |
| 492057.02 | 3608313.32 | 0.034 | 0.405 | 0.43899 |
| 492055.69 | 3608297.34 | 0.032 | 0.383 | 0.41428 |
| 492059.02 | 3608282.03 | 0.029 | 0.348 | 0.37669 |
| 492069.67 | 3608270.04 | 0.026 | 0.310 | 0.33517 |
| 492061.68 | 3608253.4 | 0.024 | 0.287 | 0.31082 |
| 492078.32 | 3608241.41 | 0.021 | 0.249 | 0.26983 |
| 492079.66 | 3608226.76 | 0.018 | 0.223 | 0.24178 |
| 492069.51 | 3608395.3 | 0.032 | 0.389 | 0.42068 |
| 492076.17 | 3608375.99 | 0.032 | 0.385 | 0.41703 |
| 492085.49 | 3608364.01 | 0.030 | 0.367 | 0.39703 |
| 492102.14 | 3608406.62 | 0.025 | 0.307 | 0.33202 |
| 492129.44 | 3608410.61 | 0.021 | 0.258 | 0.27964 |
| 492095.48 | 3608352.69 | 0.029 | 0.346 | 0.37423 |
| 492094.15 | 3608336.04 | 0.029 | 0.344 | 0.37284 |
| 492135.43 | 3608348.69 | 0.023 | 0.275 | 0.29826 |
| 492101.47 | 3608312.74 | 0.026 | 0.317 | 0.34271 |
| 492120.78 | 3608244.15 | 0.018 | 0.219 | 0.23758 |
| 492106.8 | 3608297.42 | 0.024 | 0.295 | 0.31907 |
| 492168.06 | 3608256.14 | 0.016 | 0.195 | 0.21147 |
| 491832.47 | 3608106.99 | 0.002 | 0.020 | 0.02170 |
| 491853.78 | 3608116.31 | 0.002 | 0.028 | 0.02993 |
| 491874.42 | 3608123.64 | 0.003 | 0.037 | 0.04002 |
| 491899.72 | 3608128.96 | 0.004 | 0.049 | 0.05349 |
| 491836.47 | 3608093.01 | 0.001 | 0.018 | 0.01921 |
| 491877.09 | 3608106.33 | 0.002 | 0.030 | 0.03263 |
| 491905.05 | 3608118.98 | 0.004 | 0.045 | 0.04859 |
| 491907.71 | 3608101.66 | 0.003 | 0.036 | 0.03951 |
| 491883.74 | 3608091.01 | 0.002 | 0.026 | 0.02857 |
| 491848.45 | 3608065.04 | 0.001 | 0.015 | 0.01587 |
| 491853.12 | 3608053.06 | 0.001 | 0.014 | 0.01464 |

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| 491873.09 | 3608063.05 | 0.001 | 0.018 | 0.01908 |
| 491909.71 | 3608072.37 | 0.002 | 0.026 | 0.02815 |
| 491921.03 | 3608059.05 | 0.002 | 0.024 | 0.02630 |
| 491925.69 | 3608040.41 | 0.002 | 0.021 | 0.02224 |
| 491856.44 | 3608031.75 | 0.001 | 0.011 | 0.01228 |
| 491867.1 | 3608010.44 | 0.001 | 0.010 | 0.01100 |
| 491875.09 | 3607976.49 | 0.001 | 0.008 | 0.00878 |
| 491918.37 | 3607991.8 | 0.001 | 0.012 | 0.01328 |
| 491945 | 3608000.46 | 0.001 | 0.016 | 0.01701 |
| 491935.09 | 3608141.53 | 0.006 | 0.074 | 0.08033 |
| 491960.9 | 3608152.59 | 0.008 | 0.098 | 0.10569 |
| 491988.54 | 3608164.57 | 0.010 | 0.124 | 0.13456 |
| 491946.15 | 3608114.81 | 0.005 | 0.055 | 0.05957 |
| 491988.54 | 3608129.55 | 0.007 | 0.080 | 0.08690 |
| 492018.04 | 3608107.44 | 0.006 | 0.068 | 0.07376 |
| 491955.37 | 3608089 | 0.003 | 0.042 | 0.04549 |
| 491963.66 | 3608059.51 | 0.003 | 0.031 | 0.03395 |
| 491984.86 | 3608059.51 | 0.003 | 0.035 | 0.03790 |
| 492031.86 | 3608066.89 | 0.004 | 0.046 | 0.04987 |
| 492020.8 | 3608040.16 | 0.003 | 0.034 | 0.03650 |
| 491977.49 | 3608027.26 | 0.002 | 0.024 | 0.02624 |
| 491983.94 | 3608007.9 | 0.002 | 0.021 | 0.02254 |
| 492044.76 | 3608018.04 | 0.002 | 0.030 | 0.03248 |
| 492048.45 | 3608001.45 | 0.002 | 0.026 | 0.02832 |
| 491999.6 | 3607989.47 | 0.002 | 0.019 | 0.02060 |
| 492038.31 | 3608171.95 | 0.012 | 0.143 | 0.15516 |
| 492047.53 | 3608155.36 | 0.010 | 0.121 | 0.13098 |
| 492086.23 | 3608187.61 | 0.013 | 0.161 | 0.17450 |
| 492095.45 | 3608171.03 | 0.011 | 0.139 | 0.15010 |
| 492053.98 | 3608123.1 | 0.007 | 0.087 | 0.09457 |
| 492109.27 | 3608145.22 | 0.009 | 0.110 | 0.11961 |
| 492058.59 | 3608100.06 | 0.006 | 0.070 | 0.07542 |
| 492123.1 | 3608113.89 | 0.007 | 0.085 | 0.09181 |
| 492135.08 | 3608094.53 | 0.006 | 0.073 | 0.07854 |

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| 492076.1 | 3608065.04 | 0.004 | 0.051 | 0.05562 |
| 492085.31 | 3608030.02 | 0.003 | 0.038 | 0.04130 |
| 492139.69 | 3608065.96 | 0.005 | 0.058 | 0.06231 |
| 492139.69 | 3608212.5 | 0.014 | 0.172 | 0.18677 |
| 492183.92 | 3608227.24 | 0.014 | 0.164 | 0.17742 |
| 492143.37 | 3608192.22 | 0.012 | 0.151 | 0.16297 |
| 492194.98 | 3608204.2 | 0.012 | 0.142 | 0.15402 |
| 492203.28 | 3608183.01 | 0.010 | 0.125 | 0.13532 |
| 492151.67 | 3608153.52 | 0.009 | 0.114 | 0.12330 |
| 492197.75 | 3608162.73 | 0.009 | 0.113 | 0.12212 |
| 492159.04 | 3608135.08 | 0.008 | 0.099 | 0.10720 |
| 492164.57 | 3608118.49 | 0.007 | 0.087 | 0.09464 |
| 492219.86 | 3608141.53 | 0.008 | 0.096 | 0.10405 |
| 492223.55 | 3608114.81 | 0.007 | 0.082 | 0.08826 |
| 492231.84 | 3608098.22 | 0.006 | 0.073 | 0.07909 |
| 492170.1 | 3608097.3 | 0.006 | 0.075 | 0.08082 |
| 492180.24 | 3608077.94 | 0.005 | 0.065 | 0.07008 |
| 492183.92 | 3608055.83 | 0.005 | 0.055 | 0.05961 |
| 492218.94 | 3608068.73 | 0.005 | 0.061 | 0.06576 |
| 492246.59 | 3608230.01 | 0.011 | 0.136 | 0.14725 |
| 492239.22 | 3608207.89 | 0.011 | 0.128 | 0.13875 |
| 492241.98 | 3608194.07 | 0.010 | 0.120 | 0.13000 |
| 492246.59 | 3608176.56 | 0.009 | 0.110 | 0.11883 |
| 492257.65 | 3608163.65 | 0.008 | 0.101 | 0.10918 |
| 492261.34 | 3608145.22 | 0.008 | 0.092 | 0.09912 |
| 492266.87 | 3608124.02 | 0.007 | 0.081 | 0.08812 |
| 492272.39 | 3608108.36 | 0.006 | 0.074 | 0.08050 |
| 492277.92 | 3608094.53 | 0.006 | 0.069 | 0.07422 |
| 492285.3 | 3608081.63 | 0.005 | 0.063 | 0.06868 |
| 491685.34 | 3608168.26 | 0.001 | 0.010 | 0.01056 |
| 491689.95 | 3608145.22 | 0.001 | 0.008 | 0.00881 |
| 491694.56 | 3608131.4 | 0.001 | 0.007 | 0.00806 |
| 491698.24 | 3608118.49 | 0.001 | 0.007 | 0.00743 |
| 491701.01 | 3608105.59 | 0.001 | 0.006 | 0.00683 |

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| 491703.77 | 3608093.61 | 0.000 | 0.006 | 0.00635 |
| 491707.46 | 3608079.79 | 0.000 | 0.005 | 0.00587 |
| 491713.91 | 3608070.57 | 0.000 | 0.005 | 0.00573 |
| 491715.75 | 3608058.59 | 0.000 | 0.005 | 0.00534 |
| 491720.36 | 3608046.61 | 0.000 | 0.005 | 0.00507 |
| 491732.34 | 3608014.36 | 0.000 | 0.004 | 0.00444 |
| 491735.11 | 3608002.37 | 0.000 | 0.004 | 0.00419 |
| 491735.11 | 3607991.32 | 0.000 | 0.004 | 0.00393 |
| 491744.32 | 3607980.26 | 0.000 | 0.004 | 0.00388 |
| 491747.09 | 3607967.35 | 0.000 | 0.003 | 0.00367 |
| 491755.38 | 3607954.45 | 0.000 | 0.003 | 0.00357 |
| 491759.07 | 3607939.71 | 0.000 | 0.003 | 0.00336 |
| 491636.5 | 3608156.28 | 0.001 | 0.007 | 0.00725 |
| 491618.06 | 3608148.91 | 0.000 | 0.006 | 0.00632 |
| 491598.71 | 3608143.38 | 0.000 | 0.005 | 0.00563 |
| 491579.36 | 3608134.16 | 0.000 | 0.005 | 0.00495 |
| 491565.53 | 3608132.32 | 0.000 | 0.004 | 0.00467 |
| 491548.94 | 3608123.1 | 0.000 | 0.004 | 0.00419 |
| 491654.01 | 3608119.42 | 0.000 | 0.005 | 0.00591 |
| 491663.22 | 3608133.24 | 0.001 | 0.006 | 0.00686 |
| 491657.69 | 3608106.51 | 0.000 | 0.005 | 0.00547 |
| 491663.22 | 3608094.53 | 0.000 | 0.005 | 0.00515 |
| 491674.28 | 3608094.53 | 0.000 | 0.005 | 0.00543 |
| 491681.65 | 3608086.24 | 0.000 | 0.005 | 0.00531 |
| 491686.26 | 3608072.42 | 0.000 | 0.005 | 0.00495 |
| 491663.22 | 3608078.87 | 0.000 | 0.004 | 0.00464 |
| 491671.52 | 3608072.42 | 0.000 | 0.004 | 0.00461 |
| 491676.12 | 3608058.59 | 0.000 | 0.004 | 0.00431 |
| 491678.89 | 3608048.45 | 0.000 | 0.004 | 0.00410 |
| 491690.87 | 3608053.98 | 0.000 | 0.004 | 0.00450 |
| 491695.48 | 3608035.55 | 0.000 | 0.004 | 0.00411 |
| 491701.93 | 3608024.49 | 0.000 | 0.004 | 0.00397 |
| 491624.52 | 3608121.26 | 0.000 | 0.005 | 0.00532 |
| 491615.3 | 3608116.65 | 0.000 | 0.005 | 0.00498 |

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| 491603.32 | 3608112.97 | 0.000 | 0.004 | 0.00467 |
| 491590.42 | 3608107.44 | 0.000 | 0.004 | 0.00434 |
| 491582.12 | 3608104.67 | 0.000 | 0.004 | 0.00416 |
| 491567.38 | 3608101.91 | 0.000 | 0.004 | 0.00392 |
| 491553.55 | 3608094.53 | 0.000 | 0.003 | 0.00362 |
| 491560 | 3608079.79 | 0.000 | 0.003 | 0.00340 |
| 491571.98 | 3608083.47 | 0.000 | 0.003 | 0.00357 |
| 491585.81 | 3608088.08 | 0.000 | 0.004 | 0.00380 |
| 491599.63 | 3608094.53 | 0.000 | 0.004 | 0.00411 |
| 491614.38 | 3608097.3 | 0.000 | 0.004 | 0.00438 |
| 491626.36 | 3608102.83 | 0.000 | 0.004 | 0.00472 |
| 491630.97 | 3608077.94 | 0.000 | 0.004 | 0.00408 |
| 491613.46 | 3608071.49 | 0.000 | 0.003 | 0.00372 |
| 491635.57 | 3608062.28 | 0.000 | 0.003 | 0.00376 |
| 491647.56 | 3608065.04 | 0.000 | 0.004 | 0.00399 |
| 491568.3 | 3608046.61 | 0.000 | 0.003 | 0.00289 |
| 491556.32 | 3608038.32 | 0.000 | 0.002 | 0.00270 |
| 491572.91 | 3608032.79 | 0.000 | 0.003 | 0.00271 |
| 491594.1 | 3608048.45 | 0.000 | 0.003 | 0.00309 |
| 491589.49 | 3608035.55 | 0.000 | 0.003 | 0.00285 |
| 491608.85 | 3608039.24 | 0.000 | 0.003 | 0.00304 |
| 491612.53 | 3608025.41 | 0.000 | 0.003 | 0.00285 |
| 491625.44 | 3608040.16 | 0.000 | 0.003 | 0.00320 |
| 491636.5 | 3608029.1 | 0.000 | 0.003 | 0.00311 |
| 491654.01 | 3608027.26 | 0.000 | 0.003 | 0.00326 |
| 491643.87 | 3608011.59 | 0.000 | 0.003 | 0.00289 |
| 491667.83 | 3608015.28 | 0.000 | 0.003 | 0.00322 |
| 491689.03 | 3607995 | 0.000 | 0.003 | 0.00315 |
| 491681.65 | 3607976.57 | 0.000 | 0.003 | 0.00277 |
| 491704.69 | 3607986.71 | 0.000 | 0.003 | 0.00325 |
| 491713.91 | 3607971.96 | 0.000 | 0.003 | 0.00314 |
| 491725.89 | 3607958.14 | 0.000 | 0.003 | 0.00311 |
| 491711.15 | 3607949.84 | 0.000 | 0.003 | 0.00277 |
| 491729.58 | 3607943.39 | 0.000 | 0.003 | 0.00294 |

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| 491714.83 | 3607935.1 | 0.000 | 0.002 | 0.00262 |
| 491724.97 | 3607923.12 | 0.000 | 0.002 | 0.00259 |
| 491737.87 | 3607928.65 | 0.000 | 0.003 | 0.00284 |
| 491735.11 | 3607910.22 | 0.000 | 0.002 | 0.00256 |
| 491558.16 | 3608010.67 | 0.000 | 0.002 | 0.00236 |
| 491579.36 | 3607998.69 | 0.000 | 0.002 | 0.00231 |
| 491595.95 | 3608003.3 | 0.000 | 0.002 | 0.00244 |
| 491613.46 | 3607995.92 | 0.000 | 0.002 | 0.00244 |
| 491599.63 | 3607983.94 | 0.000 | 0.002 | 0.00223 |
| 491623.59 | 3607979.33 | 0.000 | 0.002 | 0.00231 |
| 491640.18 | 3607983.02 | 0.000 | 0.002 | 0.00246 |
| 491660.46 | 3607968.28 | 0.000 | 0.002 | 0.00245 |
| 491659.54 | 3607951.69 | 0.000 | 0.002 | 0.00225 |
| 491677.05 | 3607950.77 | 0.000 | 0.002 | 0.00239 |
| 491682.58 | 3607937.86 | 0.000 | 0.002 | 0.00230 |
| 491670.6 | 3607928.65 | 0.000 | 0.002 | 0.00211 |
| 491694.56 | 3607921.27 | 0.000 | 0.002 | 0.00224 |
| 491682.58 | 3607913.9 | 0.000 | 0.002 | 0.00206 |
| 491682.58 | 3607901.92 | 0.000 | 0.002 | 0.00196 |
| 491705.62 | 3607902.84 | 0.000 | 0.002 | 0.00216 |
| 491561.62 | 3607964.09 | 0.000 | 0.002 | 0.00190 |
| 491578.12 | 3607959.66 | 0.000 | 0.002 | 0.00191 |
| 491573.42 | 3607943.99 | 0.000 | 0.002 | 0.00177 |
| 491600.84 | 3607959.66 | 0.000 | 0.002 | 0.00199 |
| 491591.44 | 3607944.77 | 0.000 | 0.002 | 0.00183 |
| 491603.97 | 3607934.59 | 0.000 | 0.002 | 0.00179 |
| 491615.72 | 3607947.91 | 0.000 | 0.002 | 0.00195 |
| 491636.09 | 3607933.02 | 0.000 | 0.002 | 0.00192 |
| 491625.12 | 3607917.35 | 0.000 | 0.002 | 0.00174 |
| 491644.71 | 3607918.92 | 0.000 | 0.002 | 0.00185 |
| 491642.36 | 3607896.99 | 0.000 | 0.002 | 0.00167 |
| 491658.03 | 3607905.6 | 0.000 | 0.002 | 0.00182 |
| 491665.08 | 3607887.59 | 0.000 | 0.002 | 0.00173 |
| 491647.06 | 3607883.67 | 0.000 | 0.001 | 0.00160 |

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| 491564.8 | 3607922.84 | 0.000 | 0.001 | 0.00159 |
| 491587.52 | 3607913.44 | 0.000 | 0.001 | 0.00158 |
| 491573.42 | 3607903.25 | 0.000 | 0.001 | 0.00148 |
| 491607.11 | 3607896.2 | 0.000 | 0.001 | 0.00153 |
| 491603.97 | 3607878.97 | 0.000 | 0.001 | 0.00141 |
| 491621.99 | 3607877.4 | 0.000 | 0.001 | 0.00146 |
| 491892.25 | 3607962.79 | 0.001 | 0.008 | 0.00882 |
| 491943.96 | 3607975.32 | 0.001 | 0.012 | 0.01350 |
| 491586.79 | 3608712.31 | 0.003 | 0.039 | 0.04205 |
| 491579.14 | 3608732.72 | 0.003 | 0.034 | 0.03646 |
| 491579.14 | 3608751.86 | 0.002 | 0.030 | 0.03267 |
| 491563.83 | 3608778.64 | 0.002 | 0.025 | 0.02734 |
| 491558.73 | 3608797.78 | 0.002 | 0.023 | 0.02453 |
| 491545.97 | 3608824.57 | 0.002 | 0.019 | 0.02107 |
| 491543.42 | 3608838.6 | 0.002 | 0.018 | 0.01965 |
| 491534.49 | 3608869.21 | 0.001 | 0.016 | 0.01692 |
| 491635.26 | 3608725.07 | 0.003 | 0.039 | 0.04276 |
| 491665.88 | 3608731.45 | 0.003 | 0.039 | 0.04178 |
| 491654.4 | 3608756.96 | 0.003 | 0.032 | 0.03452 |
| 491627.61 | 3608748.03 | 0.003 | 0.033 | 0.03611 |
| 491621.23 | 3608764.61 | 0.002 | 0.030 | 0.03219 |
| 491651.85 | 3608772.27 | 0.002 | 0.029 | 0.03107 |
| 491635.26 | 3608823.29 | 0.002 | 0.021 | 0.02259 |
| 491608.48 | 3608810.54 | 0.002 | 0.022 | 0.02418 |
| 491603.37 | 3608829.67 | 0.002 | 0.020 | 0.02168 |
| 491627.61 | 3608838.6 | 0.002 | 0.019 | 0.02072 |
| 491622.51 | 3608866.66 | 0.001 | 0.016 | 0.01783 |
| 491590.62 | 3608859.01 | 0.001 | 0.017 | 0.01851 |
| 491586.79 | 3608875.59 | 0.001 | 0.016 | 0.01703 |
| 491617.41 | 3608884.52 | 0.001 | 0.015 | 0.01629 |
| 491707.97 | 3608753.13 | 0.003 | 0.033 | 0.03576 |
| 491702.87 | 3608768.44 | 0.002 | 0.030 | 0.03198 |
| 491696.49 | 3608791.4 | 0.002 | 0.025 | 0.02735 |
| 491688.84 | 3608805.43 | 0.002 | 0.023 | 0.02500 |

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| 491683.74 | 3608834.77 | 0.002 | 0.019 | 0.02096 |
| 491674.81 | 3608851.36 | 0.001 | 0.018 | 0.01911 |
| 491669.71 | 3608874.32 | 0.001 | 0.016 | 0.01691 |
| 491667.15 | 3608903.66 | 0.001 | 0.013 | 0.01458 |
| 491741.14 | 3608758.23 | 0.003 | 0.032 | 0.03488 |
| 491733.49 | 3608772.27 | 0.002 | 0.029 | 0.03141 |
| 491727.11 | 3608797.78 | 0.002 | 0.024 | 0.02638 |
| 491720.73 | 3608809.26 | 0.002 | 0.023 | 0.02447 |
| 491711.8 | 3608833.5 | 0.002 | 0.019 | 0.02111 |
| 491706.7 | 3608855.18 | 0.001 | 0.017 | 0.01866 |
| 491701.6 | 3608871.77 | 0.001 | 0.016 | 0.01706 |
| 491699.05 | 3608899.83 | 0.001 | 0.014 | 0.01479 |
| 491778.13 | 3608770.99 | 0.003 | 0.030 | 0.03290 |
| 491773.03 | 3608791.4 | 0.002 | 0.026 | 0.02850 |
| 491762.83 | 3608811.81 | 0.002 | 0.023 | 0.02476 |
| 491760.28 | 3608828.39 | 0.002 | 0.021 | 0.02235 |
| 491755.17 | 3608851.36 | 0.001 | 0.018 | 0.01951 |
| 491747.52 | 3608869.21 | 0.001 | 0.016 | 0.01760 |
| 491738.59 | 3608884.52 | 0.001 | 0.015 | 0.01616 |
| 491738.59 | 3608902.38 | 0.001 | 0.014 | 0.01478 |
| 491804.92 | 3608781.2 | 0.002 | 0.029 | 0.03157 |
| 491802.37 | 3608806.71 | 0.002 | 0.025 | 0.02668 |
| 491789.61 | 3608822.02 | 0.002 | 0.022 | 0.02394 |
| 491788.34 | 3608839.87 | 0.002 | 0.020 | 0.02153 |
| 491774.31 | 3608853.91 | 0.001 | 0.018 | 0.01959 |
| 491778.13 | 3608875.59 | 0.001 | 0.016 | 0.01751 |
| 491773.03 | 3608892.17 | 0.001 | 0.015 | 0.01600 |
| 491770.48 | 3608916.41 | 0.001 | 0.013 | 0.01418 |
| 491848.29 | 3608793.95 | 0.002 | 0.028 | 0.02994 |
| 491845.74 | 3608815.64 | 0.002 | 0.024 | 0.02617 |
| 491835.54 | 3608834.77 | 0.002 | 0.021 | 0.02324 |
| 491829.16 | 3608859.01 | 0.002 | 0.019 | 0.02020 |
| 491824.06 | 3608874.32 | 0.001 | 0.017 | 0.01853 |
| 491824.06 | 3608890.9 | 0.001 | 0.016 | 0.01701 |

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| 491820.23 | 3608904.93 | 0.001 | 0.015 | 0.01580 |
| 491818.95 | 3608924.07 | 0.001 | 0.013 | 0.01439 |
| 491817.68 | 3608940.65 | 0.001 | 0.012 | 0.01331 |
| 491873.81 | 3608822.02 | 0.002 | 0.023 | 0.02541 |
| 491864.88 | 3608842.43 | 0.002 | 0.021 | 0.02262 |
| 491859.77 | 3608864.11 | 0.002 | 0.019 | 0.02007 |
| 491855.95 | 3608878.14 | 0.001 | 0.017 | 0.01862 |
| 491849.57 | 3608899.83 | 0.001 | 0.015 | 0.01662 |
| 491857.22 | 3608915.14 | 0.001 | 0.014 | 0.01552 |
| 491869.98 | 3608930.44 | 0.001 | 0.013 | 0.01457 |
| 491890.39 | 3608932.99 | 0.001 | 0.013 | 0.01455 |
| 491915.9 | 3608818.19 | 0.002 | 0.024 | 0.02559 |
| 491914.63 | 3608838.6 | 0.002 | 0.021 | 0.02296 |
| 491904.42 | 3608855.18 | 0.002 | 0.020 | 0.02116 |
| 491903.14 | 3608874.32 | 0.001 | 0.018 | 0.01922 |
| 491895.49 | 3608897.28 | 0.001 | 0.016 | 0.01719 |
| 491915.9 | 3608899.83 | 0.001 | 0.016 | 0.01698 |
| 491936.31 | 3608902.38 | 0.001 | 0.015 | 0.01668 |
| 491952.89 | 3608910.03 | 0.001 | 0.015 | 0.01599 |
| 491966.93 | 3608922.79 | 0.001 | 0.014 | 0.01500 |
| 491923.55 | 3608947.03 | 0.001 | 0.013 | 0.01376 |
| 491945.24 | 3608961.06 | 0.001 | 0.012 | 0.01295 |
| 491737.31 | 3608925.34 | 0.001 | 0.012 | 0.01325 |
| CONCUNIT ug | m^3 | 0.000 | 0.000 | 0.00000 |
| DEPUNIT g/m | 2 | 0.000 | 0.000 | 0.00000 |

## Moss Street

**Tier IV mitigation**

**Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Child**
**UTM: (565046,4185977)**

| | | |
|---|---|---|
| **Cancer Potency Factor:** | 1.1 | $(mg/kg\text{-}day)^{-1}$ |
| **Exposure Frequency** | 350 | days/year |
| **Averaging Period** | 25550 | days |

| Year | DPM Concentration (ug/m3) | Age Sensitivty Factor | Daily Breathing Rate (L/kg-day) | Time At Home Factor | Exposure Duration (years) | Unit Risk Factor $(ug/m3)^{-1}$ |
|---|---|---|---|---|---|---|
| 2019 | 1 | 3 | 572 | 1 | 0.25 | 6.5 |
| 2020 | 1 | 3 | 572 | 1 | 1 | 25.9 |

Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines

## Moss Street

**Tier IV mitigation** **at Sensitive Receptors**

**Estimated Cancer Risks from Construction DPM**

| X (m) | Y (m) | Child Cancer 2019 (/million) | Child Cancer 2020 (/million) | Total Cancer Risk (/million) |
|---|---|---|---|---|
| 491856.94 | 3608423.76 | 0.114 | 0.356 | 0.47011 |
| 491770.82 | 3608296.56 | 0.017 | 0.059 | 0.07578 |
| 491786.69 | 3608300.4 | 0.032 | 0.106 | 0.13796 |
| 491777.07 | 3608270.58 | 0.008 | 0.027 | 0.03417 |
| 491794.39 | 3608275.87 | 0.014 | 0.046 | 0.05925 |
| 491789.88 | 3608254.44 | 0.006 | 0.021 | 0.02694 |
| 491793.88 | 3608239.79 | 0.004 | 0.015 | 0.01951 |
| 491796.54 | 3608225.81 | 0.003 | 0.011 | 0.01464 |
| 491799.2 | 3608213.16 | 0.003 | 0.009 | 0.01165 |
| 491804.53 | 3608198.51 | 0.002 | 0.007 | 0.00945 |
| 491835.16 | 3608317.03 | 0.072 | 0.228 | 0.30039 |
| 491837.82 | 3608303.71 | 0.050 | 0.158 | 0.20738 |
| 491843.81 | 3608287.73 | 0.032 | 0.101 | 0.13262 |
| 491851.14 | 3608274.41 | 0.023 | 0.072 | 0.09486 |
| 491863.07 | 3608247.22 | 0.012 | 0.040 | 0.05198 |
| 491867.68 | 3608231.55 | 0.009 | 0.029 | 0.03790 |
| 491875.05 | 3608218.65 | 0.007 | 0.023 | 0.03058 |
| 491878.74 | 3608195.61 | 0.005 | 0.015 | 0.02024 |
| 491885.19 | 3608177.18 | 0.004 | 0.012 | 0.01540 |
| 491807.78 | 3608183.63 | 0.002 | 0.006 | 0.00758 |
| 491812.39 | 3608167.97 | 0.001 | 0.005 | 0.00622 |
| 491819.76 | 3608146.77 | 0.001 | 0.004 | 0.00495 |
| 491840.03 | 3608155.06 | 0.002 | 0.005 | 0.00697 |
| 491868.6 | 3608170.73 | 0.003 | 0.009 | 0.01197 |
| 491865.26 | 3608414.36 | 0.107 | 0.332 | 0.43887 |
| 491867.52 | 3608403.04 | 0.109 | 0.340 | 0.44919 |

| Maximum Caner Risk |
|---|
| 0.5 |
| **SDAQMD threshold of significance** |
| 10 |
| **Exceed thresholds?** |
| No |

| | | | | |
|---|---|---|---|---|
| 491872.05 | 3608392.29 | 0.107 | 0.334 | 0.44051 |
| 491874.88 | 3608377.58 | 0.108 | 0.337 | 0.44505 |
| 491886.76 | 3608431.91 | 0.070 | 0.219 | 0.28944 |
| 491890.73 | 3608422.29 | 0.070 | 0.220 | 0.29052 |
| 491896.39 | 3608409.84 | 0.070 | 0.218 | 0.28748 |
| 491900.35 | 3608397.38 | 0.070 | 0.218 | 0.28792 |
| 491903.74 | 3608384.93 | 0.070 | 0.217 | 0.28691 |
| 491912.8 | 3608444.92 | 0.047 | 0.145 | 0.19193 |
| 491917.89 | 3608432.47 | 0.048 | 0.149 | 0.19621 |
| 491921.29 | 3608418.89 | 0.049 | 0.154 | 0.20328 |
| 491926.95 | 3608408.14 | 0.049 | 0.152 | 0.20037 |
| 491930.91 | 3608396.25 | 0.049 | 0.152 | 0.20023 |
| 491950.72 | 3608425.12 | 0.035 | 0.110 | 0.14511 |
| 491954.11 | 3608416.06 | 0.036 | 0.111 | 0.14661 |
| 491959.21 | 3608404.74 | 0.035 | 0.111 | 0.14599 |
| 491984.11 | 3608467.56 | 0.020 | 0.062 | 0.08210 |
| 491987.5 | 3608453.98 | 0.021 | 0.067 | 0.08822 |
| 491993.16 | 3608442.66 | 0.022 | 0.069 | 0.09060 |
| 491998.26 | 3608432.47 | 0.022 | 0.070 | 0.09207 |
| 492002.22 | 3608421.15 | 0.023 | 0.071 | 0.09420 |
| 492012.41 | 3608475.49 | 0.015 | 0.047 | 0.06237 |
| 492015.24 | 3608463.6 | 0.016 | 0.051 | 0.06679 |
| 492020.9 | 3608451.15 | 0.017 | 0.053 | 0.06964 |
| 492024.29 | 3608441.53 | 0.017 | 0.054 | 0.07191 |
| 492028.25 | 3608428.51 | 0.018 | 0.057 | 0.07471 |
| 492037.31 | 3608486.24 | 0.012 | 0.037 | 0.04850 |
| 492042.4 | 3608472.09 | 0.013 | 0.040 | 0.05224 |
| 492046.36 | 3608461.34 | 0.013 | 0.041 | 0.05477 |
| 492050.89 | 3608450.58 | 0.014 | 0.043 | 0.05681 |
| 492055.42 | 3608440.4 | 0.014 | 0.044 | 0.05832 |
| 492065.61 | 3608493.6 | 0.009 | 0.029 | 0.03861 |
| 492069 | 3608481.15 | 0.010 | 0.031 | 0.04156 |
| 492075.23 | 3608469.26 | 0.011 | 0.033 | 0.04345 |
| 492078.06 | 3608457.38 | 0.011 | 0.035 | 0.04598 |

| | | | | |
|---|---|---|---|---|
| 492082.59 | 3608446.62 | 0.012 | 0.036 | 0.04750 |
| 491873.18 | 3608334.56 | 0.092 | 0.289 | 0.38135 |
| 491929.78 | 3608349.84 | 0.050 | 0.156 | 0.20591 |
| 491879.97 | 3608317.02 | 0.061 | 0.192 | 0.25275 |
| 491893.22 | 3608305.33 | 0.044 | 0.140 | 0.18402 |
| 491889.89 | 3608289.35 | 0.033 | 0.104 | 0.13690 |
| 491907.21 | 3608277.37 | 0.025 | 0.080 | 0.10480 |
| 491909.87 | 3608246.74 | 0.014 | 0.046 | 0.06046 |
| 491914.53 | 3608232.76 | 0.011 | 0.036 | 0.04758 |
| 491920.52 | 3608219.44 | 0.009 | 0.029 | 0.03843 |
| 491923.85 | 3608203.46 | 0.007 | 0.023 | 0.02980 |
| 491922.52 | 3608187.48 | 0.005 | 0.017 | 0.02291 |
| 491933.84 | 3608176.16 | 0.005 | 0.015 | 0.02020 |
| 491936.5 | 3608332.63 | 0.042 | 0.133 | 0.17552 |
| 491945.82 | 3608306.66 | 0.031 | 0.099 | 0.13002 |
| 491948.49 | 3608292.02 | 0.026 | 0.083 | 0.10915 |
| 491954.48 | 3608266.71 | 0.019 | 0.059 | 0.07799 |
| 491965.8 | 3608249.4 | 0.015 | 0.046 | 0.06066 |
| 491959.81 | 3608230.76 | 0.011 | 0.036 | 0.04766 |
| 491973.12 | 3608219.44 | 0.010 | 0.031 | 0.04079 |
| 491965.13 | 3608198.8 | 0.007 | 0.023 | 0.03072 |
| 491987.11 | 3608190.14 | 0.007 | 0.021 | 0.02814 |
| 491975.79 | 3608366.59 | 0.032 | 0.101 | 0.13363 |
| 491980.45 | 3608353.27 | 0.031 | 0.096 | 0.12662 |
| 491988.44 | 3608337.29 | 0.028 | 0.086 | 0.11379 |
| 491991.77 | 3608319.32 | 0.025 | 0.078 | 0.10266 |
| 492001.09 | 3608294.68 | 0.020 | 0.063 | 0.08288 |
| 492006.41 | 3608282.03 | 0.018 | 0.056 | 0.07323 |
| 492013.07 | 3608266.05 | 0.015 | 0.047 | 0.06228 |
| 492013.07 | 3608251.4 | 0.013 | 0.041 | 0.05456 |
| 492028.39 | 3608241.41 | 0.011 | 0.036 | 0.04748 |
| 492019.07 | 3608222.77 | 0.010 | 0.031 | 0.04049 |
| 492045.7 | 3608210.78 | 0.008 | 0.026 | 0.03440 |
| 492031.05 | 3608385.23 | 0.020 | 0.064 | 0.08422 |

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|---|---|---|---|---|
| 492035.71 | 3608369.92 | 0.020 | 0.063 | 0.08281 |
| 492027.06 | 3608353.27 | 0.021 | 0.067 | 0.08787 |
| 492046.36 | 3608339.96 | 0.018 | 0.057 | 0.07557 |
| 492040.37 | 3608324.64 | 0.018 | 0.057 | 0.07574 |
| 492057.02 | 3608313.32 | 0.016 | 0.050 | 0.06597 |
| 492055.69 | 3608297.34 | 0.015 | 0.047 | 0.06229 |
| 492059.02 | 3608282.03 | 0.014 | 0.043 | 0.05667 |
| 492069.67 | 3608270.04 | 0.012 | 0.038 | 0.05045 |
| 492061.68 | 3608253.4 | 0.011 | 0.036 | 0.04682 |
| 492078.32 | 3608241.41 | 0.010 | 0.031 | 0.04065 |
| 492079.66 | 3608226.76 | 0.009 | 0.028 | 0.03645 |
| 492069.51 | 3608395.3 | 0.015 | 0.048 | 0.06312 |
| 492076.17 | 3608375.99 | 0.015 | 0.047 | 0.06259 |
| 492085.49 | 3608364.01 | 0.014 | 0.045 | 0.05960 |
| 492102.14 | 3608406.62 | 0.012 | 0.038 | 0.04982 |
| 492129.44 | 3608410.61 | 0.010 | 0.032 | 0.04196 |
| 492095.48 | 3608352.69 | 0.014 | 0.043 | 0.05619 |
| 492094.15 | 3608336.04 | 0.014 | 0.042 | 0.05600 |
| 492135.43 | 3608348.69 | 0.011 | 0.034 | 0.04479 |
| 492101.47 | 3608312.74 | 0.012 | 0.039 | 0.05151 |
| 492120.78 | 3608244.15 | 0.009 | 0.027 | 0.03578 |
| 492106.8 | 3608297.42 | 0.012 | 0.036 | 0.04797 |
| 492168.06 | 3608256.14 | 0.008 | 0.024 | 0.03182 |
| 491832.47 | 3608106.99 | 0.001 | 0.003 | 0.00338 |
| 491853.78 | 3608116.31 | 0.001 | 0.004 | 0.00464 |
| 491874.42 | 3608123.64 | 0.001 | 0.005 | 0.00618 |
| 491899.72 | 3608128.96 | 0.002 | 0.006 | 0.00822 |
| 491836.47 | 3608093.01 | 0.001 | 0.002 | 0.00299 |
| 491877.09 | 3608106.33 | 0.001 | 0.004 | 0.00504 |
| 491905.05 | 3608118.98 | 0.002 | 0.006 | 0.00746 |
| 491907.71 | 3608101.66 | 0.001 | 0.005 | 0.00607 |
| 491883.74 | 3608091.01 | 0.001 | 0.003 | 0.00440 |
| 491848.45 | 3608065.04 | 0.001 | 0.002 | 0.00246 |
| 491853.12 | 3608053.06 | 0.001 | 0.002 | 0.00226 |

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|---|---|---|---|---|
| 491873.09 | 3608063.05 | 0.001 | 0.002 | 0.00294 |
| 491909.71 | 3608072.37 | 0.001 | 0.003 | 0.00432 |
| 491921.03 | 3608059.05 | 0.001 | 0.003 | 0.00403 |
| 491925.69 | 3608040.41 | 0.001 | 0.003 | 0.00341 |
| 491856.44 | 3608031.75 | 0.000 | 0.001 | 0.00189 |
| 491867.1 | 3608010.44 | 0.000 | 0.001 | 0.00169 |
| 491875.09 | 3607976.49 | 0.000 | 0.001 | 0.00135 |
| 491918.37 | 3607991.8 | 0.000 | 0.002 | 0.00203 |
| 491945 | 3608000.46 | 0.001 | 0.002 | 0.00260 |
| 491935.09 | 3608141.53 | 0.003 | 0.009 | 0.01227 |
| 491960.9 | 3608152.59 | 0.004 | 0.012 | 0.01609 |
| 491988.54 | 3608164.57 | 0.005 | 0.016 | 0.02042 |
| 491946.15 | 3608114.81 | 0.002 | 0.007 | 0.00910 |
| 491988.54 | 3608129.55 | 0.003 | 0.010 | 0.01322 |
| 492018.04 | 3608107.44 | 0.003 | 0.009 | 0.01121 |
| 491955.37 | 3608089 | 0.002 | 0.005 | 0.00695 |
| 491963.66 | 3608059.51 | 0.001 | 0.004 | 0.00518 |
| 491984.86 | 3608059.51 | 0.001 | 0.004 | 0.00578 |
| 492031.86 | 3608066.89 | 0.002 | 0.006 | 0.00758 |
| 492020.8 | 3608040.16 | 0.001 | 0.004 | 0.00556 |
| 491977.49 | 3608027.26 | 0.001 | 0.003 | 0.00400 |
| 491983.94 | 3608007.9 | 0.001 | 0.003 | 0.00344 |
| 492044.76 | 3608018.04 | 0.001 | 0.004 | 0.00494 |
| 492048.45 | 3608001.45 | 0.001 | 0.003 | 0.00431 |
| 491999.6 | 3607989.47 | 0.001 | 0.002 | 0.00314 |
| 492038.31 | 3608171.95 | 0.006 | 0.018 | 0.02348 |
| 492047.53 | 3608155.36 | 0.005 | 0.015 | 0.01983 |
| 492086.23 | 3608187.61 | 0.006 | 0.020 | 0.02634 |
| 492095.45 | 3608171.03 | 0.005 | 0.017 | 0.02267 |
| 492053.98 | 3608123.1 | 0.003 | 0.011 | 0.01433 |
| 492109.27 | 3608145.22 | 0.004 | 0.014 | 0.01808 |
| 492058.59 | 3608100.06 | 0.003 | 0.009 | 0.01144 |
| 492123.1 | 3608113.89 | 0.003 | 0.011 | 0.01389 |
| 492135.08 | 3608094.53 | 0.003 | 0.009 | 0.01188 |

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|---|---|---|---|---|
| 492076.1 | 3608065.04 | 0.002 | 0.006 | 0.00844 |
| 492085.31 | 3608030.02 | 0.002 | 0.005 | 0.00627 |
| 492139.69 | 3608065.96 | 0.002 | 0.007 | 0.00943 |
| 492139.69 | 3608212.5 | 0.007 | 0.021 | 0.02815 |
| 492183.92 | 3608227.24 | 0.006 | 0.020 | 0.02672 |
| 492143.37 | 3608192.22 | 0.006 | 0.019 | 0.02458 |
| 492194.98 | 3608204.2 | 0.006 | 0.018 | 0.02321 |
| 492203.28 | 3608183.01 | 0.005 | 0.015 | 0.02040 |
| 492151.67 | 3608153.52 | 0.004 | 0.014 | 0.01861 |
| 492197.75 | 3608162.73 | 0.004 | 0.014 | 0.01842 |
| 492159.04 | 3608135.08 | 0.004 | 0.012 | 0.01619 |
| 492164.57 | 3608118.49 | 0.003 | 0.011 | 0.01430 |
| 492219.86 | 3608141.53 | 0.004 | 0.012 | 0.01570 |
| 492223.55 | 3608114.81 | 0.003 | 0.010 | 0.01332 |
| 492231.84 | 3608098.22 | 0.003 | 0.009 | 0.01194 |
| 492170.1 | 3608097.3 | 0.003 | 0.009 | 0.01221 |
| 492180.24 | 3608077.94 | 0.003 | 0.008 | 0.01059 |
| 492183.92 | 3608055.83 | 0.002 | 0.007 | 0.00902 |
| 492218.94 | 3608068.73 | 0.002 | 0.008 | 0.00994 |
| 492246.59 | 3608230.01 | 0.005 | 0.017 | 0.02217 |
| 492239.22 | 3608207.89 | 0.005 | 0.016 | 0.02090 |
| 492241.98 | 3608194.07 | 0.005 | 0.015 | 0.01958 |
| 492246.59 | 3608176.56 | 0.004 | 0.014 | 0.01791 |
| 492257.65 | 3608163.65 | 0.004 | 0.012 | 0.01646 |
| 492261.34 | 3608145.22 | 0.004 | 0.011 | 0.01495 |
| 492266.87 | 3608124.02 | 0.003 | 0.010 | 0.01329 |
| 492272.39 | 3608108.36 | 0.003 | 0.009 | 0.01215 |
| 492277.92 | 3608094.53 | 0.003 | 0.009 | 0.01120 |
| 492285.3 | 3608081.63 | 0.002 | 0.008 | 0.01037 |
| 491685.34 | 3608168.26 | 0.000 | 0.001 | 0.00173 |
| 491689.95 | 3608145.22 | 0.000 | 0.001 | 0.00143 |
| 491694.56 | 3608131.4 | 0.000 | 0.001 | 0.00130 |
| 491698.24 | 3608118.49 | 0.000 | 0.001 | 0.00119 |
| 491701.01 | 3608105.59 | 0.000 | 0.001 | 0.00109 |

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|---|---|---|---|---|
| 491703.77 | 3608093.61 | 0.000 | 0.001 | 0.00101 |
| 491707.46 | 3608079.79 | 0.000 | 0.001 | 0.00093 |
| 491713.91 | 3608070.57 | 0.000 | 0.001 | 0.00091 |
| 491715.75 | 3608058.59 | 0.000 | 0.001 | 0.00084 |
| 491720.36 | 3608046.61 | 0.000 | 0.001 | 0.00080 |
| 491732.34 | 3608014.36 | 0.000 | 0.001 | 0.00069 |
| 491735.11 | 3608002.37 | 0.000 | 0.001 | 0.00066 |
| 491735.11 | 3607991.32 | 0.000 | 0.000 | 0.00061 |
| 491744.32 | 3607980.26 | 0.000 | 0.000 | 0.00060 |
| 491747.09 | 3607967.35 | 0.000 | 0.000 | 0.00057 |
| 491755.38 | 3607954.45 | 0.000 | 0.000 | 0.00055 |
| 491759.07 | 3607939.71 | 0.000 | 0.000 | 0.00052 |
| 491636.5 | 3608156.28 | 0.000 | 0.001 | 0.00118 |
| 491618.06 | 3608148.91 | 0.000 | 0.001 | 0.00103 |
| 491598.71 | 3608143.38 | 0.000 | 0.001 | 0.00091 |
| 491579.36 | 3608134.16 | 0.000 | 0.001 | 0.00080 |
| 491565.53 | 3608132.32 | 0.000 | 0.001 | 0.00075 |
| 491548.94 | 3608123.1 | 0.000 | 0.001 | 0.00067 |
| 491654.01 | 3608119.42 | 0.000 | 0.001 | 0.00095 |
| 491663.22 | 3608133.24 | 0.000 | 0.001 | 0.00111 |
| 491657.69 | 3608106.51 | 0.000 | 0.001 | 0.00088 |
| 491663.22 | 3608094.53 | 0.000 | 0.001 | 0.00082 |
| 491674.28 | 3608094.53 | 0.000 | 0.001 | 0.00087 |
| 491681.65 | 3608086.24 | 0.000 | 0.001 | 0.00085 |
| 491686.26 | 3608072.42 | 0.000 | 0.001 | 0.00079 |
| 491663.22 | 3608078.87 | 0.000 | 0.001 | 0.00074 |
| 491671.52 | 3608072.42 | 0.000 | 0.001 | 0.00073 |
| 491676.12 | 3608058.59 | 0.000 | 0.001 | 0.00068 |
| 491678.89 | 3608048.45 | 0.000 | 0.000 | 0.00065 |
| 491690.87 | 3608053.98 | 0.000 | 0.001 | 0.00071 |
| 491695.48 | 3608035.55 | 0.000 | 0.000 | 0.00065 |
| 491701.93 | 3608024.49 | 0.000 | 0.000 | 0.00062 |
| 491624.52 | 3608121.26 | 0.000 | 0.001 | 0.00086 |
| 491615.3 | 3608116.65 | 0.000 | 0.001 | 0.00080 |

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|---|---|---|---|---|
| 491603.32 | 3608112.97 | 0.000 | 0.001 | 0.00075 |
| 491590.42 | 3608107.44 | 0.000 | 0.001 | 0.00069 |
| 491582.12 | 3608104.67 | 0.000 | 0.001 | 0.00067 |
| 491567.38 | 3608101.91 | 0.000 | 0.000 | 0.00063 |
| 491553.55 | 3608094.53 | 0.000 | 0.000 | 0.00058 |
| 491560 | 3608079.79 | 0.000 | 0.000 | 0.00054 |
| 491571.98 | 3608083.47 | 0.000 | 0.000 | 0.00057 |
| 491585.81 | 3608088.08 | 0.000 | 0.000 | 0.00061 |
| 491599.63 | 3608094.53 | 0.000 | 0.001 | 0.00066 |
| 491614.38 | 3608097.3 | 0.000 | 0.001 | 0.00070 |
| 491626.36 | 3608102.83 | 0.000 | 0.001 | 0.00076 |
| 491630.97 | 3608077.94 | 0.000 | 0.001 | 0.00065 |
| 491613.46 | 3608071.49 | 0.000 | 0.000 | 0.00059 |
| 491635.57 | 3608062.28 | 0.000 | 0.000 | 0.00060 |
| 491647.56 | 3608065.04 | 0.000 | 0.000 | 0.00063 |
| 491568.3 | 3608046.61 | 0.000 | 0.000 | 0.00046 |
| 491556.32 | 3608038.32 | 0.000 | 0.000 | 0.00043 |
| 491572.91 | 3608032.79 | 0.000 | 0.000 | 0.00043 |
| 491594.1 | 3608048.45 | 0.000 | 0.000 | 0.00049 |
| 491589.49 | 3608035.55 | 0.000 | 0.000 | 0.00045 |
| 491608.85 | 3608039.24 | 0.000 | 0.000 | 0.00048 |
| 491612.53 | 3608025.41 | 0.000 | 0.000 | 0.00045 |
| 491625.44 | 3608040.16 | 0.000 | 0.000 | 0.00051 |
| 491636.5 | 3608029.1 | 0.000 | 0.000 | 0.00049 |
| 491654.01 | 3608027.26 | 0.000 | 0.000 | 0.00052 |
| 491643.87 | 3608011.59 | 0.000 | 0.000 | 0.00046 |
| 491667.83 | 3608015.28 | 0.000 | 0.000 | 0.00051 |
| 491689.03 | 3607995 | 0.000 | 0.000 | 0.00050 |
| 491681.65 | 3607976.57 | 0.000 | 0.000 | 0.00043 |
| 491704.69 | 3607986.71 | 0.000 | 0.000 | 0.00051 |
| 491713.91 | 3607971.96 | 0.000 | 0.000 | 0.00049 |
| 491725.89 | 3607958.14 | 0.000 | 0.000 | 0.00048 |
| 491711.15 | 3607949.84 | 0.000 | 0.000 | 0.00043 |
| 491729.58 | 3607943.39 | 0.000 | 0.000 | 0.00046 |

| | | | | |
|---|---|---|---|---|
| 491714.83 | 3607935.1 | 0.000 | 0.000 | 0.00041 |
| 491724.97 | 3607923.12 | 0.000 | 0.000 | 0.00040 |
| 491737.87 | 3607928.65 | 0.000 | 0.000 | 0.00044 |
| 491735.11 | 3607910.22 | 0.000 | 0.000 | 0.00040 |
| 491558.16 | 3608010.67 | 0.000 | 0.000 | 0.00037 |
| 491579.36 | 3607998.69 | 0.000 | 0.000 | 0.00036 |
| 491595.95 | 3608003.3 | 0.000 | 0.000 | 0.00039 |
| 491613.46 | 3607995.92 | 0.000 | 0.000 | 0.00039 |
| 491599.63 | 3607983.94 | 0.000 | 0.000 | 0.00035 |
| 491623.59 | 3607979.33 | 0.000 | 0.000 | 0.00036 |
| 491640.18 | 3607983.02 | 0.000 | 0.000 | 0.00039 |
| 491660.46 | 3607968.28 | 0.000 | 0.000 | 0.00038 |
| 491659.54 | 3607951.69 | 0.000 | 0.000 | 0.00035 |
| 491677.05 | 3607950.77 | 0.000 | 0.000 | 0.00037 |
| 491682.58 | 3607937.86 | 0.000 | 0.000 | 0.00036 |
| 491670.6 | 3607928.65 | 0.000 | 0.000 | 0.00033 |
| 491694.56 | 3607921.27 | 0.000 | 0.000 | 0.00035 |
| 491682.58 | 3607913.9 | 0.000 | 0.000 | 0.00032 |
| 491682.58 | 3607901.92 | 0.000 | 0.000 | 0.00031 |
| 491705.62 | 3607902.84 | 0.000 | 0.000 | 0.00034 |
| 491561.62 | 3607964.09 | 0.000 | 0.000 | 0.00030 |
| 491578.12 | 3607959.66 | 0.000 | 0.000 | 0.00030 |
| 491573.42 | 3607943.99 | 0.000 | 0.000 | 0.00028 |
| 491600.84 | 3607959.66 | 0.000 | 0.000 | 0.00031 |
| 491591.44 | 3607944.77 | 0.000 | 0.000 | 0.00029 |
| 491603.97 | 3607934.59 | 0.000 | 0.000 | 0.00028 |
| 491615.72 | 3607947.91 | 0.000 | 0.000 | 0.00031 |
| 491636.09 | 3607933.02 | 0.000 | 0.000 | 0.00030 |
| 491625.12 | 3607917.35 | 0.000 | 0.000 | 0.00027 |
| 491644.71 | 3607918.92 | 0.000 | 0.000 | 0.00029 |
| 491642.36 | 3607896.99 | 0.000 | 0.000 | 0.00026 |
| 491658.03 | 3607905.6 | 0.000 | 0.000 | 0.00028 |
| 491665.08 | 3607887.59 | 0.000 | 0.000 | 0.00027 |
| 491647.06 | 3607883.67 | 0.000 | 0.000 | 0.00025 |

| | | | | |
|---|---|---|---|---|
| 491564.8 | 3607922.84 | 0.000 | 0.000 | 0.00025 |
| 491587.52 | 3607913.44 | 0.000 | 0.000 | 0.00025 |
| 491573.42 | 3607903.25 | 0.000 | 0.000 | 0.00023 |
| 491607.11 | 3607896.2 | 0.000 | 0.000 | 0.00024 |
| 491603.97 | 3607878.97 | 0.000 | 0.000 | 0.00022 |
| 491621.99 | 3607877.4 | 0.000 | 0.000 | 0.00023 |
| 491892.25 | 3607962.79 | 0.000 | 0.001 | 0.00135 |
| 491943.96 | 3607975.32 | 0.000 | 0.002 | 0.00206 |
| 491586.79 | 3608712.31 | 0.002 | 0.005 | 0.00633 |
| 491579.14 | 3608732.72 | 0.001 | 0.004 | 0.00549 |
| 491579.14 | 3608751.86 | 0.001 | 0.004 | 0.00492 |
| 491563.83 | 3608778.64 | 0.001 | 0.003 | 0.00412 |
| 491558.73 | 3608797.78 | 0.001 | 0.003 | 0.00370 |
| 491545.97 | 3608824.57 | 0.001 | 0.002 | 0.00317 |
| 491543.42 | 3608838.6 | 0.001 | 0.002 | 0.00296 |
| 491534.49 | 3608869.21 | 0.001 | 0.002 | 0.00255 |
| 491635.26 | 3608725.07 | 0.002 | 0.005 | 0.00644 |
| 491665.88 | 3608731.45 | 0.002 | 0.005 | 0.00629 |
| 491654.4 | 3608756.96 | 0.001 | 0.004 | 0.00520 |
| 491627.61 | 3608748.03 | 0.001 | 0.004 | 0.00544 |
| 491621.23 | 3608764.61 | 0.001 | 0.004 | 0.00485 |
| 491651.85 | 3608772.27 | 0.001 | 0.004 | 0.00468 |
| 491635.26 | 3608823.29 | 0.001 | 0.003 | 0.00340 |
| 491608.48 | 3608810.54 | 0.001 | 0.003 | 0.00364 |
| 491603.37 | 3608829.67 | 0.001 | 0.002 | 0.00327 |
| 491627.61 | 3608838.6 | 0.001 | 0.002 | 0.00312 |
| 491622.51 | 3608866.66 | 0.001 | 0.002 | 0.00269 |
| 491590.62 | 3608859.01 | 0.001 | 0.002 | 0.00279 |
| 491586.79 | 3608875.59 | 0.001 | 0.002 | 0.00256 |
| 491617.41 | 3608884.52 | 0.001 | 0.002 | 0.00245 |
| 491707.97 | 3608753.13 | 0.001 | 0.004 | 0.00538 |
| 491702.87 | 3608768.44 | 0.001 | 0.004 | 0.00481 |
| 491696.49 | 3608791.4 | 0.001 | 0.003 | 0.00412 |
| 491688.84 | 3608805.43 | 0.001 | 0.003 | 0.00376 |

| | | | | |
|---|---|---|---|---|
| 491683.74 | 3608834.77 | 0.001 | 0.002 | 0.00316 |
| 491674.81 | 3608851.36 | 0.001 | 0.002 | 0.00288 |
| 491669.71 | 3608874.32 | 0.001 | 0.002 | 0.00255 |
| 491667.15 | 3608903.66 | 0.001 | 0.002 | 0.00220 |
| 491741.14 | 3608758.23 | 0.001 | 0.004 | 0.00525 |
| 491733.49 | 3608772.27 | 0.001 | 0.004 | 0.00473 |
| 491727.11 | 3608797.78 | 0.001 | 0.003 | 0.00397 |
| 491720.73 | 3608809.26 | 0.001 | 0.003 | 0.00369 |
| 491711.8 | 3608833.5 | 0.001 | 0.002 | 0.00318 |
| 491706.7 | 3608855.18 | 0.001 | 0.002 | 0.00281 |
| 491701.6 | 3608871.77 | 0.001 | 0.002 | 0.00257 |
| 491699.05 | 3608899.83 | 0.001 | 0.002 | 0.00223 |
| 491778.13 | 3608770.99 | 0.001 | 0.004 | 0.00495 |
| 491773.03 | 3608791.4 | 0.001 | 0.003 | 0.00429 |
| 491762.83 | 3608811.81 | 0.001 | 0.003 | 0.00373 |
| 491760.28 | 3608828.39 | 0.001 | 0.003 | 0.00337 |
| 491755.17 | 3608851.36 | 0.001 | 0.002 | 0.00294 |
| 491747.52 | 3608869.21 | 0.001 | 0.002 | 0.00265 |
| 491738.59 | 3608884.52 | 0.001 | 0.002 | 0.00244 |
| 491738.59 | 3608902.38 | 0.001 | 0.002 | 0.00223 |
| 491804.92 | 3608781.2 | 0.001 | 0.004 | 0.00475 |
| 491802.37 | 3608806.71 | 0.001 | 0.003 | 0.00402 |
| 491789.61 | 3608822.02 | 0.001 | 0.003 | 0.00361 |
| 491788.34 | 3608839.87 | 0.001 | 0.002 | 0.00324 |
| 491774.31 | 3608853.91 | 0.001 | 0.002 | 0.00295 |
| 491778.13 | 3608875.59 | 0.001 | 0.002 | 0.00264 |
| 491773.03 | 3608892.17 | 0.001 | 0.002 | 0.00241 |
| 491770.48 | 3608916.41 | 0.001 | 0.002 | 0.00214 |
| 491848.29 | 3608793.95 | 0.001 | 0.003 | 0.00450 |
| 491845.74 | 3608815.64 | 0.001 | 0.003 | 0.00394 |
| 491835.54 | 3608834.77 | 0.001 | 0.003 | 0.00350 |
| 491829.16 | 3608859.01 | 0.001 | 0.002 | 0.00304 |
| 491824.06 | 3608874.32 | 0.001 | 0.002 | 0.00279 |
| 491824.06 | 3608890.9 | 0.001 | 0.002 | 0.00256 |

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|---|---|---|---|---|
| 491820.23 | 3608904.93 | 0.001 | 0.002 | 0.00238 |
| 491818.95 | 3608924.07 | 0.001 | 0.002 | 0.00217 |
| 491817.68 | 3608940.65 | 0.000 | 0.002 | 0.00201 |
| 491873.81 | 3608822.02 | 0.001 | 0.003 | 0.00382 |
| 491864.88 | 3608842.43 | 0.001 | 0.003 | 0.00340 |
| 491859.77 | 3608864.11 | 0.001 | 0.002 | 0.00302 |
| 491855.95 | 3608878.14 | 0.001 | 0.002 | 0.00280 |
| 491849.57 | 3608899.83 | 0.001 | 0.002 | 0.00250 |
| 491857.22 | 3608915.14 | 0.001 | 0.002 | 0.00234 |
| 491869.98 | 3608930.44 | 0.001 | 0.002 | 0.00219 |
| 491890.39 | 3608932.99 | 0.001 | 0.002 | 0.00219 |
| 491915.9 | 3608818.19 | 0.001 | 0.003 | 0.00385 |
| 491914.63 | 3608838.6 | 0.001 | 0.003 | 0.00346 |
| 491904.42 | 3608855.18 | 0.001 | 0.002 | 0.00318 |
| 491903.14 | 3608874.32 | 0.001 | 0.002 | 0.00289 |
| 491895.49 | 3608897.28 | 0.001 | 0.002 | 0.00259 |
| 491915.9 | 3608899.83 | 0.001 | 0.002 | 0.00256 |
| 491936.31 | 3608902.38 | 0.001 | 0.002 | 0.00251 |
| 491952.89 | 3608910.03 | 0.001 | 0.002 | 0.00241 |
| 491966.93 | 3608922.79 | 0.001 | 0.002 | 0.00226 |
| 491923.55 | 3608947.03 | 0.001 | 0.002 | 0.00207 |
| 491945.24 | 3608961.06 | 0.000 | 0.001 | 0.00195 |
| 491737.31 | 3608925.34 | 0.000 | 0.002 | 0.00200 |
| CONCUNIT ug | m^3 | 0.000 | 0.000 | 0.00000 |
| DEPUNIT g/m | 2 | 0.000 | 0.000 | 0.00000 |

## Moss Street

**Tier IV mitigation**

**Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Adult**

| | | |
|---|---|---|
| **Cancer Potency Factor:** | 1.1 | $(mg/kg\text{-}day)^{-1}$ |
| **Exposure Frequency** | 350 | days/year |
| **Averaging Period** | 25550 | days |

| Year | DPM Concentration (ug/m3) | Age Sensitivty Factor | Daily Breathing Rate (L/kg-day) | Time At Home Factor | Exposure Duration (years) | Unit Risk Factor $(ug/m3)^{-1}$ |
|---|---|---|---|---|---|---|
| 2019 | 1 | 1 | 261 | 1 | 0.25 | 1.0 |
| 2020 | 1 | 1 | 261 | 1 | 1 | 3.9 |

Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines

**Moss Street** **Tier IV mitigation** **at Sensitive Receptors**

**Estimated Cancer Risks from Construction DPM**

| X (m) | Y (m) | Adult Cancer 2019 (/million) | Adult Cancer 2020 (/million) | Total Cancer Risk (/million) |
|---|---|---|---|---|
| 491856.94 | 3608423.76 | 0.017 | 0.054 | 0.07150 |
| 491770.82 | 3608296.56 | 0.003 | 0.009 | 0.01153 |
| 491786.69 | 3608300.4 | 0.005 | 0.016 | 0.02098 |
| 491777.07 | 3608270.58 | 0.001 | 0.004 | 0.00520 |
| 491794.39 | 3608275.87 | 0.002 | 0.007 | 0.00901 |
| 491789.88 | 3608254.44 | 0.001 | 0.003 | 0.00410 |
| 491793.88 | 3608239.79 | 0.001 | 0.002 | 0.00297 |
| 491796.54 | 3608225.81 | 0.001 | 0.002 | 0.00223 |
| 491799.2 | 3608213.16 | 0.000 | 0.001 | 0.00177 |
| 491804.53 | 3608198.51 | 0.000 | 0.001 | 0.00144 |
| 491835.16 | 3608317.03 | 0.011 | 0.035 | 0.04569 |
| 491837.82 | 3608303.71 | 0.008 | 0.024 | 0.03154 |
| 491843.81 | 3608287.73 | 0.005 | 0.015 | 0.02017 |
| 491851.14 | 3608274.41 | 0.003 | 0.011 | 0.01443 |
| 491863.07 | 3608247.22 | 0.002 | 0.006 | 0.00791 |
| 491867.68 | 3608231.55 | 0.001 | 0.004 | 0.00577 |
| 491875.05 | 3608218.65 | 0.001 | 0.004 | 0.00465 |
| 491878.74 | 3608195.61 | 0.001 | 0.002 | 0.00308 |
| 491885.19 | 3608177.18 | 0.001 | 0.002 | 0.00234 |
| 491807.78 | 3608183.63 | 0.000 | 0.001 | 0.00115 |
| 491812.39 | 3608167.97 | 0.000 | 0.001 | 0.00095 |
| 491819.76 | 3608146.77 | 0.000 | 0.001 | 0.00075 |
| 491840.03 | 3608155.06 | 0.000 | 0.001 | 0.00106 |
| 491868.6 | 3608170.73 | 0.000 | 0.001 | 0.00182 |
| 491865.26 | 3608414.36 | 0.016 | 0.051 | 0.06675 |
| 491867.52 | 3608403.04 | 0.017 | 0.052 | 0.06832 |
| 491872.05 | 3608392.29 | 0.016 | 0.051 | 0.06700 |
| 491874.88 | 3608377.58 | 0.016 | 0.051 | 0.06769 |
| 491886.76 | 3608431.91 | 0.011 | 0.033 | 0.04402 |
| 491890.73 | 3608422.29 | 0.011 | 0.033 | 0.04419 |
| 491896.39 | 3608409.84 | 0.011 | 0.033 | 0.04373 |
| 491900.35 | 3608397.38 | 0.011 | 0.033 | 0.04379 |
| 491903.74 | 3608384.93 | 0.011 | 0.033 | 0.04364 |
| 491912.8 | 3608444.92 | 0.007 | 0.022 | 0.02919 |
| 491917.89 | 3608432.47 | 0.007 | 0.023 | 0.02984 |
| 491921.29 | 3608418.89 | 0.008 | 0.023 | 0.03092 |

| Maximum Caner Risk |
|---|
| 0.1 |
| **SDAQMD threshold of significance** |
| 10 |
| **Exceed thresholds?** |
| No |

| | | | | |
|---|---|---|---|---|
| 491926.95 | 3608408.14 | 0.007 | 0.023 | 0.03048 |
| 491930.91 | 3608396.25 | 0.007 | 0.023 | 0.03045 |
| 491950.72 | 3608425.12 | 0.005 | 0.017 | 0.02207 |
| 491954.11 | 3608416.06 | 0.005 | 0.017 | 0.02230 |
| 491959.21 | 3608404.74 | 0.005 | 0.017 | 0.02221 |
| 491984.11 | 3608467.56 | 0.003 | 0.009 | 0.01249 |
| 491987.5 | 3608453.98 | 0.003 | 0.010 | 0.01342 |
| 491993.16 | 3608442.66 | 0.003 | 0.010 | 0.01378 |
| 491998.26 | 3608432.47 | 0.003 | 0.011 | 0.01400 |
| 492002.22 | 3608421.15 | 0.003 | 0.011 | 0.01433 |
| 492012.41 | 3608475.49 | 0.002 | 0.007 | 0.00949 |
| 492015.24 | 3608463.6 | 0.002 | 0.008 | 0.01016 |
| 492020.9 | 3608451.15 | 0.003 | 0.008 | 0.01059 |
| 492024.29 | 3608441.53 | 0.003 | 0.008 | 0.01094 |
| 492028.25 | 3608428.51 | 0.003 | 0.009 | 0.01136 |
| 492037.31 | 3608486.24 | 0.002 | 0.006 | 0.00738 |
| 492042.4 | 3608472.09 | 0.002 | 0.006 | 0.00795 |
| 492046.36 | 3608461.34 | 0.002 | 0.006 | 0.00833 |
| 492050.89 | 3608450.58 | 0.002 | 0.007 | 0.00864 |
| 492055.42 | 3608440.4 | 0.002 | 0.007 | 0.00887 |
| 492065.61 | 3608493.6 | 0.001 | 0.004 | 0.00587 |
| 492069 | 3608481.15 | 0.002 | 0.005 | 0.00632 |
| 492075.23 | 3608469.26 | 0.002 | 0.005 | 0.00661 |
| 492078.06 | 3608457.38 | 0.002 | 0.005 | 0.00699 |
| 492082.59 | 3608446.62 | 0.002 | 0.005 | 0.00722 |
| 491873.18 | 3608334.56 | 0.014 | 0.044 | 0.05800 |
| 491929.78 | 3608349.84 | 0.008 | 0.024 | 0.03132 |
| 491879.97 | 3608317.02 | 0.009 | 0.029 | 0.03844 |
| 491893.22 | 3608305.33 | 0.007 | 0.021 | 0.02799 |
| 491889.89 | 3608289.35 | 0.005 | 0.016 | 0.02082 |
| 491907.21 | 3608277.37 | 0.004 | 0.012 | 0.01594 |
| 491909.87 | 3608246.74 | 0.002 | 0.007 | 0.00920 |
| 491914.53 | 3608232.76 | 0.002 | 0.006 | 0.00724 |
| 491920.52 | 3608219.44 | 0.001 | 0.004 | 0.00585 |
| 491923.85 | 3608203.46 | 0.001 | 0.003 | 0.00453 |
| 491922.52 | 3608187.48 | 0.001 | 0.003 | 0.00349 |
| 491933.84 | 3608176.16 | 0.001 | 0.002 | 0.00307 |
| 491936.5 | 3608332.63 | 0.006 | 0.020 | 0.02670 |
| 491945.82 | 3608306.66 | 0.005 | 0.015 | 0.01978 |
| 491948.49 | 3608292.02 | 0.004 | 0.013 | 0.01660 |
| 491954.48 | 3608266.71 | 0.003 | 0.009 | 0.01186 |
| 491965.8 | 3608249.4 | 0.002 | 0.007 | 0.00923 |
| 491959.81 | 3608230.76 | 0.002 | 0.006 | 0.00725 |
| 491973.12 | 3608219.44 | 0.001 | 0.005 | 0.00620 |

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|---|---|---|---|---|
| 491965.13 | 3608198.8 | 0.001 | 0.004 | 0.00467 |
| 491987.11 | 3608190.14 | 0.001 | 0.003 | 0.00428 |
| 491975.79 | 3608366.59 | 0.005 | 0.015 | 0.02032 |
| 491980.45 | 3608353.27 | 0.005 | 0.015 | 0.01926 |
| 491988.44 | 3608337.29 | 0.004 | 0.013 | 0.01731 |
| 491991.77 | 3608319.32 | 0.004 | 0.012 | 0.01561 |
| 492001.09 | 3608294.68 | 0.003 | 0.010 | 0.01261 |
| 492006.41 | 3608282.03 | 0.003 | 0.008 | 0.01114 |
| 492013.07 | 3608266.05 | 0.002 | 0.007 | 0.00947 |
| 492013.07 | 3608251.4 | 0.002 | 0.006 | 0.00830 |
| 492028.39 | 3608241.41 | 0.002 | 0.005 | 0.00722 |
| 492019.07 | 3608222.77 | 0.001 | 0.005 | 0.00616 |
| 492045.7 | 3608210.78 | 0.001 | 0.004 | 0.00523 |
| 492031.05 | 3608385.23 | 0.003 | 0.010 | 0.01281 |
| 492035.71 | 3608369.92 | 0.003 | 0.010 | 0.01260 |
| 492027.06 | 3608353.27 | 0.003 | 0.010 | 0.01337 |
| 492046.36 | 3608339.96 | 0.003 | 0.009 | 0.01149 |
| 492040.37 | 3608324.64 | 0.003 | 0.009 | 0.01152 |
| 492057.02 | 3608313.32 | 0.002 | 0.008 | 0.01003 |
| 492055.69 | 3608297.34 | 0.002 | 0.007 | 0.00947 |
| 492059.02 | 3608282.03 | 0.002 | 0.007 | 0.00862 |
| 492069.67 | 3608270.04 | 0.002 | 0.006 | 0.00767 |
| 492061.68 | 3608253.4 | 0.002 | 0.005 | 0.00712 |
| 492078.32 | 3608241.41 | 0.001 | 0.005 | 0.00618 |
| 492079.66 | 3608226.76 | 0.001 | 0.004 | 0.00554 |
| 492069.51 | 3608395.3 | 0.002 | 0.007 | 0.00960 |
| 492076.17 | 3608375.99 | 0.002 | 0.007 | 0.00952 |
| 492085.49 | 3608364.01 | 0.002 | 0.007 | 0.00907 |
| 492102.14 | 3608406.62 | 0.002 | 0.006 | 0.00758 |
| 492129.44 | 3608410.61 | 0.002 | 0.005 | 0.00638 |
| 492095.48 | 3608352.69 | 0.002 | 0.006 | 0.00855 |
| 492094.15 | 3608336.04 | 0.002 | 0.006 | 0.00852 |
| 492135.43 | 3608348.69 | 0.002 | 0.005 | 0.00681 |
| 492101.47 | 3608312.74 | 0.002 | 0.006 | 0.00783 |
| 492120.78 | 3608244.15 | 0.001 | 0.004 | 0.00544 |
| 492106.8 | 3608297.42 | 0.002 | 0.006 | 0.00730 |
| 492168.06 | 3608256.14 | 0.001 | 0.004 | 0.00484 |
| 491832.47 | 3608106.99 | 0.000 | 0.000 | 0.00051 |
| 491853.78 | 3608116.31 | 0.000 | 0.001 | 0.00071 |
| 491874.42 | 3608123.64 | 0.000 | 0.001 | 0.00094 |
| 491899.72 | 3608128.96 | 0.000 | 0.001 | 0.00125 |
| 491836.47 | 3608093.01 | 0.000 | 0.000 | 0.00045 |
| 491877.09 | 3608106.33 | 0.000 | 0.001 | 0.00077 |
| 491905.05 | 3608118.98 | 0.000 | 0.001 | 0.00113 |

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|---|---|---|---|---|
| 491907.71 | 3608101.66 | 0.000 | 0.001 | 0.00092 |
| 491883.74 | 3608091.01 | 0.000 | 0.001 | 0.00067 |
| 491848.45 | 3608065.04 | 0.000 | 0.000 | 0.00037 |
| 491853.12 | 3608053.06 | 0.000 | 0.000 | 0.00034 |
| 491873.09 | 3608063.05 | 0.000 | 0.000 | 0.00045 |
| 491909.71 | 3608072.37 | 0.000 | 0.001 | 0.00066 |
| 491921.03 | 3608059.05 | 0.000 | 0.000 | 0.00061 |
| 491925.69 | 3608040.41 | 0.000 | 0.000 | 0.00052 |
| 491856.44 | 3608031.75 | 0.000 | 0.000 | 0.00029 |
| 491867.1 | 3608010.44 | 0.000 | 0.000 | 0.00026 |
| 491875.09 | 3607976.49 | 0.000 | 0.000 | 0.00021 |
| 491918.37 | 3607991.8 | 0.000 | 0.000 | 0.00031 |
| 491945 | 3608000.46 | 0.000 | 0.000 | 0.00040 |
| 491935.09 | 3608141.53 | 0.000 | 0.001 | 0.00187 |
| 491960.9 | 3608152.59 | 0.001 | 0.002 | 0.00245 |
| 491988.54 | 3608164.57 | 0.001 | 0.002 | 0.00311 |
| 491946.15 | 3608114.81 | 0.000 | 0.001 | 0.00138 |
| 491988.54 | 3608129.55 | 0.000 | 0.002 | 0.00201 |
| 492018.04 | 3608107.44 | 0.000 | 0.001 | 0.00170 |
| 491955.37 | 3608089 | 0.000 | 0.001 | 0.00106 |
| 491963.66 | 3608059.51 | 0.000 | 0.001 | 0.00079 |
| 491984.86 | 3608059.51 | 0.000 | 0.001 | 0.00088 |
| 492031.86 | 3608066.89 | 0.000 | 0.001 | 0.00115 |
| 492020.8 | 3608040.16 | 0.000 | 0.001 | 0.00084 |
| 491977.49 | 3608027.26 | 0.000 | 0.000 | 0.00061 |
| 491983.94 | 3608007.9 | 0.000 | 0.000 | 0.00052 |
| 492044.76 | 3608018.04 | 0.000 | 0.001 | 0.00075 |
| 492048.45 | 3608001.45 | 0.000 | 0.000 | 0.00066 |
| 491999.6 | 3607989.47 | 0.000 | 0.000 | 0.00048 |
| 492038.31 | 3608171.95 | 0.001 | 0.003 | 0.00357 |
| 492047.53 | 3608155.36 | 0.001 | 0.002 | 0.00302 |
| 492086.23 | 3608187.61 | 0.001 | 0.003 | 0.00401 |
| 492095.45 | 3608171.03 | 0.001 | 0.003 | 0.00345 |
| 492053.98 | 3608123.1 | 0.001 | 0.002 | 0.00218 |
| 492109.27 | 3608145.22 | 0.001 | 0.002 | 0.00275 |
| 492058.59 | 3608100.06 | 0.000 | 0.001 | 0.00174 |
| 492123.1 | 3608113.89 | 0.001 | 0.002 | 0.00211 |
| 492135.08 | 3608094.53 | 0.000 | 0.001 | 0.00181 |
| 492076.1 | 3608065.04 | 0.000 | 0.001 | 0.00128 |
| 492085.31 | 3608030.02 | 0.000 | 0.001 | 0.00095 |
| 492139.69 | 3608065.96 | 0.000 | 0.001 | 0.00143 |
| 492139.69 | 3608212.5 | 0.001 | 0.003 | 0.00428 |
| 492183.92 | 3608227.24 | 0.001 | 0.003 | 0.00406 |
| 492143.37 | 3608192.22 | 0.001 | 0.003 | 0.00374 |

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|---|---|---|---|---|
| 492194.98 | 3608204.2 | 0.001 | 0.003 | 0.00353 |
| 492203.28 | 3608183.01 | 0.001 | 0.002 | 0.00310 |
| 492151.67 | 3608153.52 | 0.001 | 0.002 | 0.00283 |
| 492197.75 | 3608162.73 | 0.001 | 0.002 | 0.00280 |
| 492159.04 | 3608135.08 | 0.001 | 0.002 | 0.00246 |
| 492164.57 | 3608118.49 | 0.001 | 0.002 | 0.00217 |
| 492219.86 | 3608141.53 | 0.001 | 0.002 | 0.00239 |
| 492223.55 | 3608114.81 | 0.000 | 0.002 | 0.00203 |
| 492231.84 | 3608098.22 | 0.000 | 0.001 | 0.00182 |
| 492170.1 | 3608097.3 | 0.000 | 0.001 | 0.00186 |
| 492180.24 | 3608077.94 | 0.000 | 0.001 | 0.00161 |
| 492183.92 | 3608055.83 | 0.000 | 0.001 | 0.00137 |
| 492218.94 | 3608068.73 | 0.000 | 0.001 | 0.00151 |
| 492246.59 | 3608230.01 | 0.001 | 0.003 | 0.00337 |
| 492239.22 | 3608207.89 | 0.001 | 0.002 | 0.00318 |
| 492241.98 | 3608194.07 | 0.001 | 0.002 | 0.00298 |
| 492246.59 | 3608176.56 | 0.001 | 0.002 | 0.00272 |
| 492257.65 | 3608163.65 | 0.001 | 0.002 | 0.00250 |
| 492261.34 | 3608145.22 | 0.001 | 0.002 | 0.00227 |
| 492266.87 | 3608124.02 | 0.000 | 0.002 | 0.00202 |
| 492272.39 | 3608108.36 | 0.000 | 0.001 | 0.00185 |
| 492277.92 | 3608094.53 | 0.000 | 0.001 | 0.00170 |
| 492285.3 | 3608081.63 | 0.000 | 0.001 | 0.00158 |
| 491685.34 | 3608168.26 | 0.000 | 0.000 | 0.00026 |
| 491689.95 | 3608145.22 | 0.000 | 0.000 | 0.00022 |
| 491694.56 | 3608131.4 | 0.000 | 0.000 | 0.00020 |
| 491698.24 | 3608118.49 | 0.000 | 0.000 | 0.00018 |
| 491701.01 | 3608105.59 | 0.000 | 0.000 | 0.00017 |
| 491703.77 | 3608093.61 | 0.000 | 0.000 | 0.00015 |
| 491707.46 | 3608079.79 | 0.000 | 0.000 | 0.00014 |
| 491713.91 | 3608070.57 | 0.000 | 0.000 | 0.00014 |
| 491715.75 | 3608058.59 | 0.000 | 0.000 | 0.00013 |
| 491720.36 | 3608046.61 | 0.000 | 0.000 | 0.00012 |
| 491732.34 | 3608014.36 | 0.000 | 0.000 | 0.00011 |
| 491735.11 | 3608002.37 | 0.000 | 0.000 | 0.00010 |
| 491735.11 | 3607991.32 | 0.000 | 0.000 | 0.00009 |
| 491744.32 | 3607980.26 | 0.000 | 0.000 | 0.00009 |
| 491747.09 | 3607967.35 | 0.000 | 0.000 | 0.00009 |
| 491755.38 | 3607954.45 | 0.000 | 0.000 | 0.00008 |
| 491759.07 | 3607939.71 | 0.000 | 0.000 | 0.00008 |
| 491636.5 | 3608156.28 | 0.000 | 0.000 | 0.00018 |
| 491618.06 | 3608148.91 | 0.000 | 0.000 | 0.00016 |
| 491598.71 | 3608143.38 | 0.000 | 0.000 | 0.00014 |
| 491579.36 | 3608134.16 | 0.000 | 0.000 | 0.00012 |

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|---|---|---|---|---|
| 491565.53 | 3608132.32 | 0.000 | 0.000 | 0.00011 |
| 491548.94 | 3608123.1 | 0.000 | 0.000 | 0.00010 |
| 491654.01 | 3608119.42 | 0.000 | 0.000 | 0.00014 |
| 491663.22 | 3608133.24 | 0.000 | 0.000 | 0.00017 |
| 491657.69 | 3608106.51 | 0.000 | 0.000 | 0.00013 |
| 491663.22 | 3608094.53 | 0.000 | 0.000 | 0.00013 |
| 491674.28 | 3608094.53 | 0.000 | 0.000 | 0.00013 |
| 491681.65 | 3608086.24 | 0.000 | 0.000 | 0.00013 |
| 491686.26 | 3608072.42 | 0.000 | 0.000 | 0.00012 |
| 491663.22 | 3608078.87 | 0.000 | 0.000 | 0.00011 |
| 491671.52 | 3608072.42 | 0.000 | 0.000 | 0.00011 |
| 491676.12 | 3608058.59 | 0.000 | 0.000 | 0.00010 |
| 491678.89 | 3608048.45 | 0.000 | 0.000 | 0.00010 |
| 491690.87 | 3608053.98 | 0.000 | 0.000 | 0.00011 |
| 491695.48 | 3608035.55 | 0.000 | 0.000 | 0.00010 |
| 491701.93 | 3608024.49 | 0.000 | 0.000 | 0.00010 |
| 491624.52 | 3608121.26 | 0.000 | 0.000 | 0.00013 |
| 491615.3 | 3608116.65 | 0.000 | 0.000 | 0.00012 |
| 491603.32 | 3608112.97 | 0.000 | 0.000 | 0.00011 |
| 491590.42 | 3608107.44 | 0.000 | 0.000 | 0.00011 |
| 491582.12 | 3608104.67 | 0.000 | 0.000 | 0.00010 |
| 491567.38 | 3608101.91 | 0.000 | 0.000 | 0.00010 |
| 491553.55 | 3608094.53 | 0.000 | 0.000 | 0.00009 |
| 491560 | 3608079.79 | 0.000 | 0.000 | 0.00008 |
| 491571.98 | 3608083.47 | 0.000 | 0.000 | 0.00009 |
| 491585.81 | 3608088.08 | 0.000 | 0.000 | 0.00009 |
| 491599.63 | 3608094.53 | 0.000 | 0.000 | 0.00010 |
| 491614.38 | 3608097.3 | 0.000 | 0.000 | 0.00011 |
| 491626.36 | 3608102.83 | 0.000 | 0.000 | 0.00012 |
| 491630.97 | 3608077.94 | 0.000 | 0.000 | 0.00010 |
| 491613.46 | 3608071.49 | 0.000 | 0.000 | 0.00009 |
| 491635.57 | 3608062.28 | 0.000 | 0.000 | 0.00009 |
| 491647.56 | 3608065.04 | 0.000 | 0.000 | 0.00010 |
| 491568.3 | 3608046.61 | 0.000 | 0.000 | 0.00007 |
| 491556.32 | 3608038.32 | 0.000 | 0.000 | 0.00007 |
| 491572.91 | 3608032.79 | 0.000 | 0.000 | 0.00007 |
| 491594.1 | 3608048.45 | 0.000 | 0.000 | 0.00007 |
| 491589.49 | 3608035.55 | 0.000 | 0.000 | 0.00007 |
| 491608.85 | 3608039.24 | 0.000 | 0.000 | 0.00007 |
| 491612.53 | 3608025.41 | 0.000 | 0.000 | 0.00007 |
| 491625.44 | 3608040.16 | 0.000 | 0.000 | 0.00008 |
| 491636.5 | 3608029.1 | 0.000 | 0.000 | 0.00007 |
| 491654.01 | 3608027.26 | 0.000 | 0.000 | 0.00008 |
| 491643.87 | 3608011.59 | 0.000 | 0.000 | 0.00007 |

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| 491667.83 | 3608015.28 | 0.000 | 0.000 | 0.00008 |
| 491689.03 | 3607995 | 0.000 | 0.000 | 0.00008 |
| 491681.65 | 3607976.57 | 0.000 | 0.000 | 0.00007 |
| 491704.69 | 3607986.71 | 0.000 | 0.000 | 0.00008 |
| 491713.91 | 3607971.96 | 0.000 | 0.000 | 0.00007 |
| 491725.89 | 3607958.14 | 0.000 | 0.000 | 0.00007 |
| 491711.15 | 3607949.84 | 0.000 | 0.000 | 0.00007 |
| 491729.58 | 3607943.39 | 0.000 | 0.000 | 0.00007 |
| 491714.83 | 3607935.1 | 0.000 | 0.000 | 0.00006 |
| 491724.97 | 3607923.12 | 0.000 | 0.000 | 0.00006 |
| 491737.87 | 3607928.65 | 0.000 | 0.000 | 0.00007 |
| 491735.11 | 3607910.22 | 0.000 | 0.000 | 0.00006 |
| 491558.16 | 3608010.67 | 0.000 | 0.000 | 0.00006 |
| 491579.36 | 3607998.69 | 0.000 | 0.000 | 0.00006 |
| 491595.95 | 3608003.3 | 0.000 | 0.000 | 0.00006 |
| 491613.46 | 3607995.92 | 0.000 | 0.000 | 0.00006 |
| 491599.63 | 3607983.94 | 0.000 | 0.000 | 0.00005 |
| 491623.59 | 3607979.33 | 0.000 | 0.000 | 0.00006 |
| 491640.18 | 3607983.02 | 0.000 | 0.000 | 0.00006 |
| 491660.46 | 3607968.28 | 0.000 | 0.000 | 0.00006 |
| 491659.54 | 3607951.69 | 0.000 | 0.000 | 0.00005 |
| 491677.05 | 3607950.77 | 0.000 | 0.000 | 0.00006 |
| 491682.58 | 3607937.86 | 0.000 | 0.000 | 0.00005 |
| 491670.6 | 3607928.65 | 0.000 | 0.000 | 0.00005 |
| 491694.56 | 3607921.27 | 0.000 | 0.000 | 0.00005 |
| | | | | |
| 491682.58 | 3607913.9 | 0.000 | 0.000 | 0.00005 |
| 491682.58 | 3607901.92 | 0.000 | 0.000 | 0.00005 |
| 491705.62 | 3607902.84 | 0.000 | 0.000 | 0.00005 |
| 491561.62 | 3607964.09 | 0.000 | 0.000 | 0.00005 |
| 491578.12 | 3607959.66 | 0.000 | 0.000 | 0.00005 |
| 491573.42 | 3607943.99 | 0.000 | 0.000 | 0.00004 |
| 491600.84 | 3607959.66 | 0.000 | 0.000 | 0.00005 |
| 491591.44 | 3607944.77 | 0.000 | 0.000 | 0.00004 |
| 491603.97 | 3607934.59 | 0.000 | 0.000 | 0.00004 |
| 491615.72 | 3607947.91 | 0.000 | 0.000 | 0.00005 |
| 491636.09 | 3607933.02 | 0.000 | 0.000 | 0.00005 |
| 491625.12 | 3607917.35 | 0.000 | 0.000 | 0.00004 |
| 491644.71 | 3607918.92 | 0.000 | 0.000 | 0.00004 |
| 491642.36 | 3607896.99 | 0.000 | 0.000 | 0.00004 |
| 491658.03 | 3607905.6 | 0.000 | 0.000 | 0.00004 |
| 491665.08 | 3607887.59 | 0.000 | 0.000 | 0.00004 |
| 491647.06 | 3607883.67 | 0.000 | 0.000 | 0.00004 |
| 491564.8 | 3607922.84 | 0.000 | 0.000 | 0.00004 |

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| 491587.52 | 3607913.44 | 0.000 | 0.000 | 0.00004 |
| 491573.42 | 3607903.25 | 0.000 | 0.000 | 0.00004 |
| 491607.11 | 3607896.2 | 0.000 | 0.000 | 0.00004 |
| 491603.97 | 3607878.97 | 0.000 | 0.000 | 0.00003 |
| 491621.99 | 3607877.4 | 0.000 | 0.000 | 0.00003 |
| 491892.25 | 3607962.79 | 0.000 | 0.000 | 0.00021 |
| 491943.96 | 3607975.32 | 0.000 | 0.000 | 0.00031 |
| 491586.79 | 3608712.31 | 0.000 | 0.001 | 0.00096 |
| 491579.14 | 3608732.72 | 0.000 | 0.001 | 0.00084 |
| 491579.14 | 3608751.86 | 0.000 | 0.001 | 0.00075 |
| 491563.83 | 3608778.64 | 0.000 | 0.000 | 0.00063 |
| 491558.73 | 3608797.78 | 0.000 | 0.000 | 0.00056 |
| 491545.97 | 3608824.57 | 0.000 | 0.000 | 0.00048 |
| 491543.42 | 3608838.6 | 0.000 | 0.000 | 0.00045 |
| 491534.49 | 3608869.21 | 0.000 | 0.000 | 0.00039 |
| 491635.26 | 3608725.07 | 0.000 | 0.001 | 0.00098 |
| 491665.88 | 3608731.45 | 0.000 | 0.001 | 0.00096 |
| 491654.4 | 3608756.96 | 0.000 | 0.001 | 0.00079 |
| 491627.61 | 3608748.03 | 0.000 | 0.001 | 0.00083 |
| 491621.23 | 3608764.61 | 0.000 | 0.001 | 0.00074 |
| 491651.85 | 3608772.27 | 0.000 | 0.001 | 0.00071 |
| 491635.26 | 3608823.29 | 0.000 | 0.000 | 0.00052 |
| 491608.48 | 3608810.54 | 0.000 | 0.000 | 0.00055 |
| 491603.37 | 3608829.67 | 0.000 | 0.000 | 0.00050 |
| 491627.61 | 3608838.6 | 0.000 | 0.000 | 0.00047 |
| 491622.51 | 3608866.66 | 0.000 | 0.000 | 0.00041 |
| 491590.62 | 3608859.01 | 0.000 | 0.000 | 0.00042 |
| 491586.79 | 3608875.59 | 0.000 | 0.000 | 0.00039 |
| 491617.41 | 3608884.52 | 0.000 | 0.000 | 0.00037 |
| 491707.97 | 3608753.13 | 0.000 | 0.001 | 0.00082 |
| 491702.87 | 3608768.44 | 0.000 | 0.001 | 0.00073 |
| 491696.49 | 3608791.4 | 0.000 | 0.000 | 0.00063 |
| 491688.84 | 3608805.43 | 0.000 | 0.000 | 0.00057 |
| 491683.74 | 3608834.77 | 0.000 | 0.000 | 0.00048 |
| 491674.81 | 3608851.36 | 0.000 | 0.000 | 0.00044 |
| 491669.71 | 3608874.32 | 0.000 | 0.000 | 0.00039 |
| 491667.15 | 3608903.66 | 0.000 | 0.000 | 0.00033 |
| 491741.14 | 3608758.23 | 0.000 | 0.001 | 0.00080 |
| 491733.49 | 3608772.27 | 0.000 | 0.001 | 0.00072 |
| 491727.11 | 3608797.78 | 0.000 | 0.000 | 0.00060 |
| 491720.73 | 3608809.26 | 0.000 | 0.000 | 0.00056 |
| 491711.8 | 3608833.5 | 0.000 | 0.000 | 0.00048 |
| 491706.7 | 3608855.18 | 0.000 | 0.000 | 0.00043 |
| 491701.6 | 3608871.77 | 0.000 | 0.000 | 0.00039 |

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|---|---|---|---|---|
| 491699.05 | 3608899.83 | 0.000 | 0.000 | 0.00034 |
| 491778.13 | 3608770.99 | 0.000 | 0.001 | 0.00075 |
| 491773.03 | 3608791.4 | 0.000 | 0.000 | 0.00065 |
| 491762.83 | 3608811.81 | 0.000 | 0.000 | 0.00057 |
| 491760.28 | 3608828.39 | 0.000 | 0.000 | 0.00051 |
| 491755.17 | 3608851.36 | 0.000 | 0.000 | 0.00045 |
| 491747.52 | 3608869.21 | 0.000 | 0.000 | 0.00040 |
| 491738.59 | 3608884.52 | 0.000 | 0.000 | 0.00037 |
| 491738.59 | 3608902.38 | 0.000 | 0.000 | 0.00034 |
| 491804.92 | 3608781.2 | 0.000 | 0.001 | 0.00072 |
| 491802.37 | 3608806.71 | 0.000 | 0.000 | 0.00061 |
| 491789.61 | 3608822.02 | 0.000 | 0.000 | 0.00055 |
| 491788.34 | 3608839.87 | 0.000 | 0.000 | 0.00049 |
| 491774.31 | 3608853.91 | 0.000 | 0.000 | 0.00045 |
| 491778.13 | 3608875.59 | 0.000 | 0.000 | 0.00040 |
| 491773.03 | 3608892.17 | 0.000 | 0.000 | 0.00037 |
| 491770.48 | 3608916.41 | 0.000 | 0.000 | 0.00032 |
| 491848.29 | 3608793.95 | 0.000 | 0.001 | 0.00069 |
| 491845.74 | 3608815.64 | 0.000 | 0.000 | 0.00060 |
| 491835.54 | 3608834.77 | 0.000 | 0.000 | 0.00053 |
| 491829.16 | 3608859.01 | 0.000 | 0.000 | 0.00046 |
| 491824.06 | 3608874.32 | 0.000 | 0.000 | 0.00042 |
| 491824.06 | 3608890.9 | 0.000 | 0.000 | 0.00039 |
| 491820.23 | 3608904.93 | 0.000 | 0.000 | 0.00036 |
| 491818.95 | 3608924.07 | 0.000 | 0.000 | 0.00033 |
| 491817.68 | 3608940.65 | 0.000 | 0.000 | 0.00031 |
| 491873.81 | 3608822.02 | 0.000 | 0.000 | 0.00058 |
| 491864.88 | 3608842.43 | 0.000 | 0.000 | 0.00052 |
| 491859.77 | 3608864.11 | 0.000 | 0.000 | 0.00046 |
| 491855.95 | 3608878.14 | 0.000 | 0.000 | 0.00043 |
| 491849.57 | 3608899.83 | 0.000 | 0.000 | 0.00038 |
| 491857.22 | 3608915.14 | 0.000 | 0.000 | 0.00036 |
| 491869.98 | 3608930.44 | 0.000 | 0.000 | 0.00033 |
| 491890.39 | 3608932.99 | 0.000 | 0.000 | 0.00033 |
| 491915.9 | 3608818.19 | 0.000 | 0.000 | 0.00059 |
| 491914.63 | 3608838.6 | 0.000 | 0.000 | 0.00053 |
| 491904.42 | 3608855.18 | 0.000 | 0.000 | 0.00048 |
| 491903.14 | 3608874.32 | 0.000 | 0.000 | 0.00044 |
| 491895.49 | 3608897.28 | 0.000 | 0.000 | 0.00039 |
| 491915.9 | 3608899.83 | 0.000 | 0.000 | 0.00039 |
| 491936.31 | 3608902.38 | 0.000 | 0.000 | 0.00038 |
| 491952.89 | 3608910.03 | 0.000 | 0.000 | 0.00037 |
| 491966.93 | 3608922.79 | 0.000 | 0.000 | 0.00034 |
| 491923.55 | 3608947.03 | 0.000 | 0.000 | 0.00032 |

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|---|---|---|---|---|
| 491945.24 | 3608961.06 | 0.000 | 0.000 | 0.00030 |
| 491737.31 | 3608925.34 | 0.000 | 0.000 | 0.00030 |
| CONCUNIT ug | m^3 | 0.000 | 0.000 | |
| DEPUNIT g/m | 2 | 0.000 | 0.000 | |

## Moss Street

**Tier IV mitigation**
**at Sensitive Receptors**

**Chronic Non-Cancer Hazard Index**

**Reference Exposure Level (REL) for DPM:** 5 ug/m3

**CNCHI = DPM/REL**

| X (m) | Y (m) | 2019 DPM (ug/m3) | 2020 DPM (ug/m3) | Max DPM (ug/m3) | CNCHI |
|---|---|---|---|---|---|
| 491856.94 | 3608423.76 | 0.017652 | 0.013768 | 0.017652 | 0.00353 |
| 491770.82 | 3608296.56 | 0.002602 | 0.00228 | 0.002602 | 0.00052 |
| 491786.69 | 3608300.4 | 0.004959 | 0.004095 | 0.004959 | 0.00099 |
| 491777.07 | 3608270.58 | 0.001171 | 0.001029 | 0.001171 | 0.00023 |
| 491794.39 | 3608275.87 | 0.002116 | 0.001762 | 0.002116 | 0.00042 |
| 491789.88 | 3608254.44 | 0.000941 | 0.000807 | 0.000941 | 0.00019 |
| 491793.88 | 3608239.79 | 0.000682 | 0.000584 | 0.000682 | 0.00014 |
| 491796.54 | 3608225.81 | 0.000512 | 0.000438 | 0.000512 | 0.00010 |
| 491799.2 | 3608213.16 | 0.000409 | 0.000349 | 0.000409 | 0.00008 |
| 491804.53 | 3608198.51 | 0.000333 | 0.000282 | 0.000333 | 0.00007 |
| 491835.16 | 3608317.03 | 0.011184 | 0.008821 | 0.011184 | 0.00224 |
| 491837.82 | 3608303.71 | 0.007695 | 0.006096 | 0.007695 | 0.00154 |
| 491843.81 | 3608287.73 | 0.004905 | 0.003903 | 0.004905 | 0.00098 |
| 491851.14 | 3608274.41 | 0.003502 | 0.002793 | 0.003502 | 0.00070 |
| 491863.07 | 3608247.22 | 0.001912 | 0.001532 | 0.001912 | 0.00038 |
| 491867.68 | 3608231.55 | 0.001391 | 0.001118 | 0.001391 | 0.00028 |
| 491875.05 | 3608218.65 | 0.001122 | 0.000902 | 0.001122 | 0.00022 |
| 491878.74 | 3608195.61 | 0.000741 | 0.000597 | 0.000741 | 0.00015 |
| 491885.19 | 3608177.18 | 0.000563 | 0.000455 | 0.000563 | 0.00011 |
| 491807.78 | 3608183.63 | 0.000269 | 0.000226 | 0.000269 | 0.00005 |
| 491812.39 | 3608167.97 | 0.000222 | 0.000185 | 0.000222 | 0.00004 |
| 491819.76 | 3608146.77 | 0.000177 | 0.000147 | 0.000177 | 0.00004 |
| 491840.03 | 3608155.06 | 0.000251 | 0.000207 | 0.000251 | 0.00005 |

| **Maximum Caner Risk** |
|---|
| 0.00 |
| **SDAQMD threshold of significance** |
| 1 |
| **Exceed thresholds?** |
| No |

| | | | | | |
|---|---|---|---|---|---|
| 491868.6 | 3608170.73 | 0.000436 | 0.000354 | 0.000436 | 0.00009 |
| 491865.26 | 3608414.36 | 0.016478 | 0.012853 | 0.016478 | 0.00330 |
| 491867.52 | 3608403.04 | 0.016863 | 0.013156 | 0.016863 | 0.00337 |
| 491872.05 | 3608392.29 | 0.016535 | 0.012902 | 0.016535 | 0.00331 |
| 491874.88 | 3608377.58 | 0.016702 | 0.013036 | 0.016702 | 0.00334 |
| 491886.76 | 3608431.91 | 0.010866 | 0.008477 | 0.010866 | 0.00217 |
| 491890.73 | 3608422.29 | 0.010906 | 0.008509 | 0.010906 | 0.00218 |
| 491896.39 | 3608409.84 | 0.01079 | 0.00842 | 0.01079 | 0.00216 |
| 491900.35 | 3608397.38 | 0.010805 | 0.008434 | 0.010805 | 0.00216 |
| 491903.74 | 3608384.93 | 0.010765 | 0.008405 | 0.010765 | 0.00215 |
| 491912.8 | 3608444.92 | 0.007204 | 0.005622 | 0.007204 | 0.00144 |
| 491917.89 | 3608432.47 | 0.007364 | 0.005747 | 0.007364 | 0.00147 |
| 491921.29 | 3608418.89 | 0.007629 | 0.005954 | 0.007629 | 0.00153 |
| 491926.95 | 3608408.14 | 0.007518 | 0.005869 | 0.007518 | 0.00150 |
| 491930.91 | 3608396.25 | 0.007512 | 0.005866 | 0.007512 | 0.00150 |
| 491950.72 | 3608425.12 | 0.005444 | 0.004251 | 0.005444 | 0.00109 |
| 491954.11 | 3608416.06 | 0.0055 | 0.004295 | 0.0055 | 0.00110 |
| 491959.21 | 3608404.74 | 0.005476 | 0.004277 | 0.005476 | 0.00110 |
| 491984.11 | 3608467.56 | 0.00308 | 0.002405 | 0.00308 | 0.00062 |
| 491987.5 | 3608453.98 | 0.00331 | 0.002584 | 0.00331 | 0.00066 |
| 491993.16 | 3608442.66 | 0.003399 | 0.002654 | 0.003399 | 0.00068 |
| 491998.26 | 3608432.47 | 0.003453 | 0.002697 | 0.003453 | 0.00069 |
| 492002.22 | 3608421.15 | 0.003533 | 0.00276 | 0.003533 | 0.00071 |
| 492012.41 | 3608475.49 | 0.00234 | 0.001827 | 0.00234 | 0.00047 |
| 492015.24 | 3608463.6 | 0.002505 | 0.001957 | 0.002505 | 0.00050 |
| 492020.9 | 3608451.15 | 0.002612 | 0.00204 | 0.002612 | 0.00052 |
| 492024.29 | 3608441.53 | 0.002697 | 0.002107 | 0.002697 | 0.00054 |
| 492028.25 | 3608428.51 | 0.002802 | 0.002189 | 0.002802 | 0.00056 |
| 492037.31 | 3608486.24 | 0.001819 | 0.001421 | 0.001819 | 0.00036 |
| 492042.4 | 3608472.09 | 0.001959 | 0.00153 | 0.001959 | 0.00039 |
| 492046.36 | 3608461.34 | 0.002054 | 0.001605 | 0.002054 | 0.00041 |
| 492050.89 | 3608450.58 | 0.00213 | 0.001664 | 0.00213 | 0.00043 |
| 492055.42 | 3608440.4 | 0.002187 | 0.001709 | 0.002187 | 0.00044 |
| 492065.61 | 3608493.6 | 0.001448 | 0.001131 | 0.001448 | 0.00029 |

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| 492069 | 3608481.15 | 0.001558 | 0.001218 | 0.001558 | 0.00031 |
| 492075.23 | 3608469.26 | 0.001629 | 0.001273 | 0.001629 | 0.00033 |
| 492078.06 | 3608457.38 | 0.001724 | 0.001347 | 0.001724 | 0.00034 |
| 492082.59 | 3608446.62 | 0.001781 | 0.001392 | 0.001781 | 0.00036 |
| 491873.18 | 3608334.56 | 0.014288 | 0.011176 | 0.014288 | 0.00286 |
| 491929.78 | 3608349.84 | 0.007717 | 0.006034 | 0.007717 | 0.00154 |
| 491879.97 | 3608317.02 | 0.009451 | 0.007412 | 0.009451 | 0.00189 |
| 491893.22 | 3608305.33 | 0.006873 | 0.005398 | 0.006873 | 0.00137 |
| 491889.89 | 3608289.35 | 0.0051 | 0.004019 | 0.0051 | 0.00102 |
| 491907.21 | 3608277.37 | 0.003902 | 0.003077 | 0.003902 | 0.00078 |
| 491909.87 | 3608246.74 | 0.002242 | 0.001778 | 0.002242 | 0.00045 |
| 491914.53 | 3608232.76 | 0.001762 | 0.001399 | 0.001762 | 0.00035 |
| 491920.52 | 3608219.44 | 0.001422 | 0.001131 | 0.001422 | 0.00028 |
| 491923.85 | 3608203.46 | 0.001101 | 0.000877 | 0.001101 | 0.00022 |
| 491922.52 | 3608187.48 | 0.000845 | 0.000675 | 0.000845 | 0.00017 |
| 491933.84 | 3608176.16 | 0.000745 | 0.000595 | 0.000745 | 0.00015 |
| 491936.5 | 3608332.63 | 0.006573 | 0.005145 | 0.006573 | 0.00131 |
| 491945.82 | 3608306.66 | 0.004862 | 0.003813 | 0.004862 | 0.00097 |
| 491948.49 | 3608292.02 | 0.004077 | 0.003202 | 0.004077 | 0.00082 |
| 491954.48 | 3608266.71 | 0.002907 | 0.002289 | 0.002907 | 0.00058 |
| 491965.8 | 3608249.4 | 0.002259 | 0.001781 | 0.002259 | 0.00045 |
| 491959.81 | 3608230.76 | 0.001771 | 0.0014 | 0.001771 | 0.00035 |
| 491973.12 | 3608219.44 | 0.001516 | 0.001199 | 0.001516 | 0.00030 |
| 491965.13 | 3608198.8 | 0.001139 | 0.000903 | 0.001139 | 0.00023 |
| 491987.11 | 3608190.14 | 0.001044 | 0.000827 | 0.001044 | 0.00021 |
| 491975.79 | 3608366.59 | 0.005009 | 0.003916 | 0.005009 | 0.00100 |
| 491980.45 | 3608353.27 | 0.004744 | 0.003711 | 0.004744 | 0.00095 |
| 491988.44 | 3608337.29 | 0.004261 | 0.003335 | 0.004261 | 0.00085 |
| 491991.77 | 3608319.32 | 0.003842 | 0.00301 | 0.003842 | 0.00077 |
| 492001.09 | 3608294.68 | 0.003098 | 0.002431 | 0.003098 | 0.00062 |
| 492006.41 | 3608282.03 | 0.002736 | 0.002148 | 0.002736 | 0.00055 |
| 492013.07 | 3608266.05 | 0.002325 | 0.001827 | 0.002325 | 0.00046 |
| 492013.07 | 3608251.4 | 0.002035 | 0.001601 | 0.002035 | 0.00041 |
| 492028.39 | 3608241.41 | 0.001771 | 0.001394 | 0.001771 | 0.00035 |

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| 492019.07 | 3608222.77 | 0.001508 | 0.001189 | 0.001508 | 0.00030 |
| 492045.7 | 3608210.78 | 0.001281 | 0.00101 | 0.001281 | 0.00026 |
| 492031.05 | 3608385.23 | 0.003157 | 0.002468 | 0.003157 | 0.00063 |
| 492035.71 | 3608369.92 | 0.003103 | 0.002427 | 0.003103 | 0.00062 |
| 492027.06 | 3608353.27 | 0.003292 | 0.002575 | 0.003292 | 0.00066 |
| 492046.36 | 3608339.96 | 0.00283 | 0.002215 | 0.00283 | 0.00057 |
| 492040.37 | 3608324.64 | 0.002835 | 0.00222 | 0.002835 | 0.00057 |
| 492057.02 | 3608313.32 | 0.002468 | 0.001934 | 0.002468 | 0.00049 |
| 492055.69 | 3608297.34 | 0.002329 | 0.001827 | 0.002329 | 0.00047 |
| 492059.02 | 3608282.03 | 0.002118 | 0.001662 | 0.002118 | 0.00042 |
| 492069.67 | 3608270.04 | 0.001885 | 0.00148 | 0.001885 | 0.00038 |
| 492061.68 | 3608253.4 | 0.001748 | 0.001374 | 0.001748 | 0.00035 |
| 492078.32 | 3608241.41 | 0.001517 | 0.001193 | 0.001517 | 0.00030 |
| 492079.66 | 3608226.76 | 0.00136 | 0.00107 | 0.00136 | 0.00027 |
| 492069.51 | 3608395.3 | 0.002365 | 0.00185 | 0.002365 | 0.00047 |
| 492076.17 | 3608375.99 | 0.002345 | 0.001834 | 0.002345 | 0.00047 |
| 492085.49 | 3608364.01 | 0.002232 | 0.001747 | 0.002232 | 0.00045 |
| 492102.14 | 3608406.62 | 0.001867 | 0.00146 | 0.001867 | 0.00037 |
| 492129.44 | 3608410.61 | 0.001572 | 0.00123 | 0.001572 | 0.00031 |
| 492095.48 | 3608352.69 | 0.002104 | 0.001647 | 0.002104 | 0.00042 |
| 492094.15 | 3608336.04 | 0.002096 | 0.001642 | 0.002096 | 0.00042 |
| 492135.43 | 3608348.69 | 0.001677 | 0.001313 | 0.001677 | 0.00034 |
| 492101.47 | 3608312.74 | 0.001927 | 0.00151 | 0.001927 | 0.00039 |
| 492120.78 | 3608244.15 | 0.001336 | 0.00105 | 0.001336 | 0.00027 |
| 492106.8 | 3608297.42 | 0.001794 | 0.001407 | 0.001794 | 0.00036 |
| 492168.06 | 3608256.14 | 0.001189 | 0.000933 | 0.001189 | 0.00024 |
| 491832.47 | 3608106.99 | 0.000122 | 0.0001 | 0.000122 | 0.00002 |
| 491853.78 | 3608116.31 | 0.000168 | 0.000137 | 0.000168 | 0.00003 |
| 491874.42 | 3608123.64 | 0.000225 | 0.000183 | 0.000225 | 0.00005 |
| 491899.72 | 3608128.96 | 0.000301 | 0.000243 | 0.000301 | 0.00006 |
| 491836.47 | 3608093.01 | 0.000108 | 8.84E-05 | 0.000108 | 0.00002 |
| 491877.09 | 3608106.33 | 0.000183 | 0.000149 | 0.000183 | 0.00004 |
| 491905.05 | 3608118.98 | 0.000273 | 0.00022 | 0.000273 | 0.00005 |
| 491907.71 | 3608101.66 | 0.000222 | 0.000179 | 0.000222 | 0.00004 |

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| 491883.74 | 3608091.01 | 0.000161 | 0.00013 | 0.000161 | 0.00003 |
| 491848.45 | 3608065.04 | 8.92E-05 | 7.27E-05 | 8.92E-05 | 0.00002 |
| 491853.12 | 3608053.06 | 8.23E-05 | 6.69E-05 | 8.23E-05 | 0.00002 |
| 491873.09 | 3608063.05 | 0.000107 | 8.69E-05 | 0.000107 | 0.00002 |
| 491909.71 | 3608072.37 | 0.000158 | 0.000128 | 0.000158 | 0.00003 |
| 491921.03 | 3608059.05 | 0.000148 | 0.000119 | 0.000148 | 0.00003 |
| 491925.69 | 3608040.41 | 0.000125 | 0.0001 | 0.000125 | 0.00003 |
| 491856.44 | 3608031.75 | 6.9E-05 | 5.6E-05 | 6.9E-05 | 0.00001 |
| 491867.1 | 3608010.44 | 6.18E-05 | 5E-05 | 6.18E-05 | 0.00001 |
| 491875.09 | 3607976.49 | 4.94E-05 | 3.98E-05 | 4.94E-05 | 0.00001 |
| 491918.37 | 3607991.8 | 7.47E-05 | 6E-05 | 7.47E-05 | 0.00001 |
| 491945 | 3608000.46 | 9.57E-05 | 7.67E-05 | 9.57E-05 | 0.00002 |
| 491935.09 | 3608141.53 | 0.000452 | 0.000362 | 0.000452 | 0.00009 |
| 491960.9 | 3608152.59 | 0.000594 | 0.000474 | 0.000594 | 0.00012 |
| 491988.54 | 3608164.57 | 0.000757 | 0.000601 | 0.000757 | 0.00015 |
| 491946.15 | 3608114.81 | 0.000335 | 0.000268 | 0.000335 | 0.00007 |
| 491988.54 | 3608129.55 | 0.000489 | 0.000389 | 0.000489 | 0.00010 |
| 492018.04 | 3608107.44 | 0.000415 | 0.00033 | 0.000415 | 0.00008 |
| 491955.37 | 3608089 | 0.000256 | 0.000205 | 0.000256 | 0.00005 |
| 491963.66 | 3608059.51 | 0.000191 | 0.000153 | 0.000191 | 0.00004 |
| 491984.86 | 3608059.51 | 0.000213 | 0.00017 | 0.000213 | 0.00004 |
| 492031.86 | 3608066.89 | 0.00028 | 0.000223 | 0.00028 | 0.00006 |
| 492020.8 | 3608040.16 | 0.000205 | 0.000164 | 0.000205 | 0.00004 |
| 491977.49 | 3608027.26 | 0.000148 | 0.000118 | 0.000148 | 0.00003 |
| 491983.94 | 3608007.9 | 0.000127 | 0.000101 | 0.000127 | 0.00003 |
| 492044.76 | 3608018.04 | 0.000183 | 0.000145 | 0.000183 | 0.00004 |
| 492048.45 | 3608001.45 | 0.000159 | 0.000127 | 0.000159 | 0.00003 |
| 491999.6 | 3607989.47 | 0.000116 | 9.25E-05 | 0.000116 | 0.00002 |
| 492038.31 | 3608171.95 | 0.000872 | 0.00069 | 0.000872 | 0.00017 |
| 492047.53 | 3608155.36 | 0.000736 | 0.000583 | 0.000736 | 0.00015 |
| 492086.23 | 3608187.61 | 0.000981 | 0.000774 | 0.000981 | 0.00020 |
| 492095.45 | 3608171.03 | 0.000844 | 0.000666 | 0.000844 | 0.00017 |
| 492053.98 | 3608123.1 | 0.000532 | 0.000421 | 0.000532 | 0.00011 |
| 492109.27 | 3608145.22 | 0.000673 | 0.000531 | 0.000673 | 0.00013 |

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| 492058.59 | 3608100.06 | 0.000424 | 0.000336 | 0.000424 | 0.00008 |
| 492123.1 | 3608113.89 | 0.000516 | 0.000408 | 0.000516 | 0.00010 |
| 492135.08 | 3608094.53 | 0.000442 | 0.000349 | 0.000442 | 0.00009 |
| 492076.1 | 3608065.04 | 0.000313 | 0.000248 | 0.000313 | 0.00006 |
| 492085.31 | 3608030.02 | 0.000232 | 0.000184 | 0.000232 | 0.00005 |
| 492139.69 | 3608065.96 | 0.00035 | 0.000277 | 0.00035 | 0.00007 |
| 492139.69 | 3608212.5 | 0.00105 | 0.000826 | 0.00105 | 0.00021 |
| 492183.92 | 3608227.24 | 0.000998 | 0.000784 | 0.000998 | 0.00020 |
| 492143.37 | 3608192.22 | 0.000916 | 0.000721 | 0.000916 | 0.00018 |
| 492194.98 | 3608204.2 | 0.000866 | 0.000681 | 0.000866 | 0.00017 |
| 492203.28 | 3608183.01 | 0.000761 | 0.000599 | 0.000761 | 0.00015 |
| 492151.67 | 3608153.52 | 0.000693 | 0.000547 | 0.000693 | 0.00014 |
| 492197.75 | 3608162.73 | 0.000687 | 0.000541 | 0.000687 | 0.00014 |
| 492159.04 | 3608135.08 | 0.000603 | 0.000475 | 0.000603 | 0.00012 |
| 492164.57 | 3608118.49 | 0.000532 | 0.00042 | 0.000532 | 0.00011 |
| 492219.86 | 3608141.53 | 0.000585 | 0.000461 | 0.000585 | 0.00012 |
| 492223.55 | 3608114.81 | 0.000496 | 0.000391 | 0.000496 | 0.00010 |
| 492231.84 | 3608098.22 | 0.000445 | 0.000351 | 0.000445 | 0.00009 |
| 492170.1 | 3608097.3 | 0.000454 | 0.000359 | 0.000454 | 0.00009 |
| 492180.24 | 3608077.94 | 0.000394 | 0.000311 | 0.000394 | 0.00008 |
| 492183.92 | 3608055.83 | 0.000335 | 0.000265 | 0.000335 | 0.00007 |
| 492218.94 | 3608068.73 | 0.00037 | 0.000292 | 0.00037 | 0.00007 |
| 492246.59 | 3608230.01 | 0.000828 | 0.00065 | 0.000828 | 0.00017 |
| 492239.22 | 3608207.89 | 0.00078 | 0.000613 | 0.00078 | 0.00016 |
| 492241.98 | 3608194.07 | 0.000731 | 0.000575 | 0.000731 | 0.00015 |
| 492246.59 | 3608176.56 | 0.000668 | 0.000526 | 0.000668 | 0.00013 |
| 492257.65 | 3608163.65 | 0.000614 | 0.000483 | 0.000614 | 0.00012 |
| 492261.34 | 3608145.22 | 0.000557 | 0.000439 | 0.000557 | 0.00011 |
| 492266.87 | 3608124.02 | 0.000496 | 0.00039 | 0.000496 | 0.00010 |
| 492272.39 | 3608108.36 | 0.000453 | 0.000357 | 0.000453 | 0.00009 |
| 492277.92 | 3608094.53 | 0.000417 | 0.000329 | 0.000417 | 0.00008 |
| 492285.3 | 3608081.63 | 0.000386 | 0.000304 | 0.000386 | 0.00008 |
| 491685.34 | 3608168.26 | 5.94E-05 | 5.22E-05 | 5.94E-05 | 0.00001 |
| 491689.95 | 3608145.22 | 4.95E-05 | 4.28E-05 | 4.95E-05 | 0.00001 |

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| 491694.56 | 3608131.4 | 4.53E-05 | 3.89E-05 | 4.53E-05 | 0.00001 |
| 491698.24 | 3608118.49 | 4.18E-05 | 3.56E-05 | 4.18E-05 | 0.00001 |
| 491701.01 | 3608105.59 | 3.84E-05 | 3.26E-05 | 3.84E-05 | 0.00001 |
| 491703.77 | 3608093.61 | 3.57E-05 | 3.01E-05 | 3.57E-05 | 0.00001 |
| 491707.46 | 3608079.79 | 3.3E-05 | 2.78E-05 | 3.3E-05 | 0.00001 |
| 491713.91 | 3608070.57 | 3.22E-05 | 2.7E-05 | 3.22E-05 | 0.00001 |
| 491715.75 | 3608058.59 | 3E-05 | 2.51E-05 | 3E-05 | 0.00001 |
| 491720.36 | 3608046.61 | 2.85E-05 | 2.37E-05 | 2.85E-05 | 0.00001 |
| 491732.34 | 3608014.36 | 2.49E-05 | 2.06E-05 | 2.49E-05 | 0.00000 |
| 491735.11 | 3608002.37 | 2.36E-05 | 1.94E-05 | 2.36E-05 | 0.00000 |
| 491735.11 | 3607991.32 | 2.21E-05 | 1.82E-05 | 2.21E-05 | 0.00000 |
| 491744.32 | 3607980.26 | 2.18E-05 | 1.79E-05 | 2.18E-05 | 0.00000 |
| 491747.09 | 3607967.35 | 2.06E-05 | 1.69E-05 | 2.06E-05 | 0.00000 |
| 491755.38 | 3607954.45 | 2.01E-05 | 1.64E-05 | 2.01E-05 | 0.00000 |
| 491759.07 | 3607939.71 | 1.89E-05 | 1.54E-05 | 1.89E-05 | 0.00000 |
| 491636.5 | 3608156.28 | 4.08E-05 | 3.56E-05 | 4.08E-05 | 0.00001 |
| 491618.06 | 3608148.91 | 3.55E-05 | 3.09E-05 | 3.55E-05 | 0.00001 |
| 491598.71 | 3608143.38 | 3.17E-05 | 2.74E-05 | 3.17E-05 | 0.00001 |
| 491579.36 | 3608134.16 | 2.78E-05 | 2.39E-05 | 2.78E-05 | 0.00001 |
| 491565.53 | 3608132.32 | 2.63E-05 | 2.25E-05 | 2.63E-05 | 0.00001 |
| 491548.94 | 3608123.1 | 2.36E-05 | 2.01E-05 | 2.36E-05 | 0.00000 |
| 491654.01 | 3608119.42 | 3.32E-05 | 2.85E-05 | 3.32E-05 | 0.00001 |
| 491663.22 | 3608133.24 | 3.85E-05 | 3.32E-05 | 3.85E-05 | 0.00001 |
| 491657.69 | 3608106.51 | 3.08E-05 | 2.63E-05 | 3.08E-05 | 0.00001 |
| 491663.22 | 3608094.53 | 2.9E-05 | 2.46E-05 | 2.9E-05 | 0.00001 |
| 491674.28 | 3608094.53 | 3.05E-05 | 2.59E-05 | 3.05E-05 | 0.00001 |
| 491681.65 | 3608086.24 | 2.99E-05 | 2.53E-05 | 2.99E-05 | 0.00001 |
| 491686.26 | 3608072.42 | 2.78E-05 | 2.35E-05 | 2.78E-05 | 0.00001 |
| 491663.22 | 3608078.87 | 2.61E-05 | 2.21E-05 | 2.61E-05 | 0.00001 |
| 491671.52 | 3608072.42 | 2.59E-05 | 2.19E-05 | 2.59E-05 | 0.00001 |
| 491676.12 | 3608058.59 | 2.42E-05 | 2.04E-05 | 2.42E-05 | 0.00000 |
| 491678.89 | 3608048.45 | 2.3E-05 | 1.93E-05 | 2.3E-05 | 0.00000 |
| 491690.87 | 3608053.98 | 2.53E-05 | 2.12E-05 | 2.53E-05 | 0.00001 |
| 491695.48 | 3608035.55 | 2.31E-05 | 1.93E-05 | 2.31E-05 | 0.00000 |

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| 491701.93 | 3608024.49 | 2.23E-05 | 1.86E-05 | 2.23E-05 | 0.00000 |
| 491624.52 | 3608121.26 | 2.99E-05 | 2.57E-05 | 2.99E-05 | 0.00001 |
| 491615.3 | 3608116.65 | 2.8E-05 | 2.4E-05 | 2.8E-05 | 0.00001 |
| 491603.32 | 3608112.97 | 2.63E-05 | 2.25E-05 | 2.63E-05 | 0.00001 |
| 491590.42 | 3608107.44 | 2.44E-05 | 2.08E-05 | 2.44E-05 | 0.00000 |
| 491582.12 | 3608104.67 | 2.34E-05 | 1.99E-05 | 2.34E-05 | 0.00000 |
| 491567.38 | 3608101.91 | 2.21E-05 | 1.87E-05 | 2.21E-05 | 0.00000 |
| 491553.55 | 3608094.53 | 2.04E-05 | 1.72E-05 | 2.04E-05 | 0.00000 |
| 491560 | 3608079.79 | 1.91E-05 | 1.61E-05 | 1.91E-05 | 0.00000 |
| 491571.98 | 3608083.47 | 2.01E-05 | 1.7E-05 | 2.01E-05 | 0.00000 |
| 491585.81 | 3608088.08 | 2.14E-05 | 1.81E-05 | 2.14E-05 | 0.00000 |
| 491599.63 | 3608094.53 | 2.31E-05 | 1.97E-05 | 2.31E-05 | 0.00000 |
| 491614.38 | 3608097.3 | 2.46E-05 | 2.1E-05 | 2.46E-05 | 0.00000 |
| 491626.36 | 3608102.83 | 2.65E-05 | 2.27E-05 | 2.65E-05 | 0.00001 |
| 491630.97 | 3608077.94 | 2.29E-05 | 1.95E-05 | 2.29E-05 | 0.00000 |
| 491613.46 | 3608071.49 | 2.09E-05 | 1.77E-05 | 2.09E-05 | 0.00000 |
| 491635.57 | 3608062.28 | 2.11E-05 | 1.79E-05 | 2.11E-05 | 0.00000 |
| 491647.56 | 3608065.04 | 2.24E-05 | 1.89E-05 | 2.24E-05 | 0.00000 |
| 491568.3 | 3608046.61 | 1.63E-05 | 1.37E-05 | 1.63E-05 | 0.00000 |
| 491556.32 | 3608038.32 | 1.52E-05 | 1.27E-05 | 1.52E-05 | 0.00000 |
| 491572.91 | 3608032.79 | 1.53E-05 | 1.28E-05 | 1.53E-05 | 0.00000 |
| 491594.1 | 3608048.45 | 1.74E-05 | 1.46E-05 | 1.74E-05 | 0.00000 |
| 491589.49 | 3608035.55 | 1.6E-05 | 1.35E-05 | 1.6E-05 | 0.00000 |
| 491608.85 | 3608039.24 | 1.71E-05 | 1.44E-05 | 1.71E-05 | 0.00000 |
| 491612.53 | 3608025.41 | 1.6E-05 | 1.34E-05 | 1.6E-05 | 0.00000 |
| 491625.44 | 3608040.16 | 1.8E-05 | 1.51E-05 | 1.8E-05 | 0.00000 |
| 491636.5 | 3608029.1 | 1.75E-05 | 1.47E-05 | 1.75E-05 | 0.00000 |
| 491654.01 | 3608027.26 | 1.83E-05 | 1.54E-05 | 1.83E-05 | 0.00000 |
| 491643.87 | 3608011.59 | 1.62E-05 | 1.36E-05 | 1.62E-05 | 0.00000 |
| 491667.83 | 3608015.28 | 1.81E-05 | 1.51E-05 | 1.81E-05 | 0.00000 |
| 491689.03 | 3607995 | 1.77E-05 | 1.47E-05 | 1.77E-05 | 0.00000 |
| 491681.65 | 3607976.57 | 1.56E-05 | 1.29E-05 | 1.56E-05 | 0.00000 |
| 491704.69 | 3607986.71 | 1.83E-05 | 1.51E-05 | 1.83E-05 | 0.00000 |
| 491713.91 | 3607971.96 | 1.77E-05 | 1.46E-05 | 1.77E-05 | 0.00000 |

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| 491725.89 | 3607958.14 | 1.75E-05 | 1.44E-05 | 1.75E-05 | 0.00000 |
| 491711.15 | 3607949.84 | 1.56E-05 | 1.28E-05 | 1.56E-05 | 0.00000 |
| 491729.58 | 3607943.39 | 1.65E-05 | 1.35E-05 | 1.65E-05 | 0.00000 |
| 491714.83 | 3607935.1 | 1.47E-05 | 1.21E-05 | 1.47E-05 | 0.00000 |
| 491724.97 | 3607923.12 | 1.46E-05 | 1.2E-05 | 1.46E-05 | 0.00000 |
| 491737.87 | 3607928.65 | 1.6E-05 | 1.31E-05 | 1.6E-05 | 0.00000 |
| 491735.11 | 3607910.22 | 1.44E-05 | 1.18E-05 | 1.44E-05 | 0.00000 |
| 491558.16 | 3608010.67 | 1.33E-05 | 1.11E-05 | 1.33E-05 | 0.00000 |
| 491579.36 | 3607998.69 | 1.3E-05 | 1.08E-05 | 1.3E-05 | 0.00000 |
| 491595.95 | 3608003.3 | 1.37E-05 | 1.15E-05 | 1.37E-05 | 0.00000 |
| 491613.46 | 3607995.92 | 1.37E-05 | 1.15E-05 | 1.37E-05 | 0.00000 |
| 491599.63 | 3607983.94 | 1.25E-05 | 1.05E-05 | 1.25E-05 | 0.00000 |
| 491623.59 | 3607979.33 | 1.3E-05 | 1.08E-05 | 1.3E-05 | 0.00000 |
| 491640.18 | 3607983.02 | 1.38E-05 | 1.15E-05 | 1.38E-05 | 0.00000 |
| 491660.46 | 3607968.28 | 1.37E-05 | 1.14E-05 | 1.37E-05 | 0.00000 |
| 491659.54 | 3607951.69 | 1.27E-05 | 1.05E-05 | 1.27E-05 | 0.00000 |
| 491677.05 | 3607950.77 | 1.35E-05 | 1.11E-05 | 1.35E-05 | 0.00000 |
| 491682.58 | 3607937.86 | 1.29E-05 | 1.07E-05 | 1.29E-05 | 0.00000 |
| 491670.6 | 3607928.65 | 1.18E-05 | 9.78E-06 | 1.18E-05 | 0.00000 |
| 491694.56 | 3607921.27 | 1.26E-05 | 1.04E-05 | 1.26E-05 | 0.00000 |
| 491682.58 | 3607913.9 | 1.16E-05 | 9.56E-06 | 1.16E-05 | 0.00000 |
| 491682.58 | 3607901.92 | 1.1E-05 | 9.07E-06 | 1.1E-05 | 0.00000 |
| 491705.62 | 3607902.84 | 1.22E-05 | 9.98E-06 | 1.22E-05 | 0.00000 |
| 491561.62 | 3607964.09 | 1.07E-05 | 8.89E-06 | 1.07E-05 | 0.00000 |
| 491578.12 | 3607959.66 | 1.07E-05 | 8.94E-06 | 1.07E-05 | 0.00000 |
| 491573.42 | 3607943.99 | 9.93E-06 | 8.25E-06 | 9.93E-06 | 0.00000 |
| 491600.84 | 3607959.66 | 1.12E-05 | 9.32E-06 | 1.12E-05 | 0.00000 |
| 491591.44 | 3607944.77 | 1.03E-05 | 8.53E-06 | 1.03E-05 | 0.00000 |
| 491603.97 | 3607934.59 | 1E-05 | 8.34E-06 | 1E-05 | 0.00000 |
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| 491636.09 | 3607933.02 | 1.08E-05 | 8.94E-06 | 1.08E-05 | 0.00000 |
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| 491644.71 | 3607918.92 | 1.04E-05 | 8.6E-06 | 1.04E-05 | 0.00000 |
| 491642.36 | 3607896.99 | 9.4E-06 | 7.77E-06 | 9.4E-06 | 0.00000 |

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| 491658.03 | 3607905.6 | 1.02E-05 | 8.45E-06 | 1.02E-05 | 0.00000 |
| 491665.08 | 3607887.59 | 9.72E-06 | 8.01E-06 | 9.72E-06 | 0.00000 |
| 491647.06 | 3607883.67 | 9.02E-06 | 7.45E-06 | 9.02E-06 | 0.00000 |
| 491564.8 | 3607922.84 | 8.94E-06 | 7.42E-06 | 8.94E-06 | 0.00000 |
| 491587.52 | 3607913.44 | 8.89E-06 | 7.37E-06 | 8.89E-06 | 0.00000 |
| 491573.42 | 3607903.25 | 8.33E-06 | 6.9E-06 | 8.33E-06 | 0.00000 |
| 491607.11 | 3607896.2 | 8.58E-06 | 7.1E-06 | 8.58E-06 | 0.00000 |
| 491603.97 | 3607878.97 | 7.95E-06 | 6.57E-06 | 7.95E-06 | 0.00000 |
| 491621.99 | 3607877.4 | 8.22E-06 | 6.79E-06 | 8.22E-06 | 0.00000 |
| 491892.25 | 3607962.79 | 4.96E-05 | 3.99E-05 | 4.96E-05 | 0.00001 |
| 491943.96 | 3607975.32 | 7.59E-05 | 6.08E-05 | 7.59E-05 | 0.00002 |
| 491586.79 | 3608712.31 | 0.000236 | 0.000186 | 0.000236 | 0.00005 |
| 491579.14 | 3608732.72 | 0.000205 | 0.000161 | 0.000205 | 0.00004 |
| 491579.14 | 3608751.86 | 0.000184 | 0.000144 | 0.000184 | 0.00004 |
| 491563.83 | 3608778.64 | 0.000154 | 0.000121 | 0.000154 | 0.00003 |
| 491558.73 | 3608797.78 | 0.000138 | 0.000108 | 0.000138 | 0.00003 |
| 491545.97 | 3608824.57 | 0.000118 | 9.31E-05 | 0.000118 | 0.00002 |
| 491543.42 | 3608838.6 | 0.000111 | 8.69E-05 | 0.000111 | 0.00002 |
| 491534.49 | 3608869.21 | 9.51E-05 | 7.48E-05 | 9.51E-05 | 0.00002 |
| 491635.26 | 3608725.07 | 0.00024 | 0.000189 | 0.00024 | 0.00005 |
| 491665.88 | 3608731.45 | 0.000235 | 0.000184 | 0.000235 | 0.00005 |
| 491654.4 | 3608756.96 | 0.000194 | 0.000152 | 0.000194 | 0.00004 |
| 491627.61 | 3608748.03 | 0.000203 | 0.000159 | 0.000203 | 0.00004 |
| 491621.23 | 3608764.61 | 0.000181 | 0.000142 | 0.000181 | 0.00004 |
| 491651.85 | 3608772.27 | 0.000175 | 0.000137 | 0.000175 | 0.00003 |
| 491635.26 | 3608823.29 | 0.000127 | 9.98E-05 | 0.000127 | 0.00003 |
| 491608.48 | 3608810.54 | 0.000136 | 0.000107 | 0.000136 | 0.00003 |
| 491603.37 | 3608829.67 | 0.000122 | 9.58E-05 | 0.000122 | 0.00002 |
| 491627.61 | 3608838.6 | 0.000116 | 9.15E-05 | 0.000116 | 0.00002 |
| 491622.51 | 3608866.66 | 0.0001 | 7.88E-05 | 0.0001 | 0.00002 |
| 491590.62 | 3608859.01 | 0.000104 | 8.18E-05 | 0.000104 | 0.00002 |
| 491586.79 | 3608875.59 | 9.57E-05 | 7.52E-05 | 9.57E-05 | 0.00002 |
| 491617.41 | 3608884.52 | 9.16E-05 | 7.2E-05 | 9.16E-05 | 0.00002 |
| 491707.97 | 3608753.13 | 0.000201 | 0.000158 | 0.000201 | 0.00004 |

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| 491702.87 | 3608768.44 | 0.00018 | 0.000141 | 0.00018 | 0.00004 |
| 491696.49 | 3608791.4 | 0.000154 | 0.000121 | 0.000154 | 0.00003 |
| 491688.84 | 3608805.43 | 0.000141 | 0.00011 | 0.000141 | 0.00003 |
| 491683.74 | 3608834.77 | 0.000118 | 9.26E-05 | 0.000118 | 0.00002 |
| 491674.81 | 3608851.36 | 0.000107 | 8.45E-05 | 0.000107 | 0.00002 |
| 491669.71 | 3608874.32 | 9.51E-05 | 7.47E-05 | 9.51E-05 | 0.00002 |
| 491667.15 | 3608903.66 | 8.2E-05 | 6.45E-05 | 8.2E-05 | 0.00002 |
| 491741.14 | 3608758.23 | 0.000196 | 0.000154 | 0.000196 | 0.00004 |
| 491733.49 | 3608772.27 | 0.000177 | 0.000139 | 0.000177 | 0.00004 |
| 491727.11 | 3608797.78 | 0.000148 | 0.000117 | 0.000148 | 0.00003 |
| 491720.73 | 3608809.26 | 0.000138 | 0.000108 | 0.000138 | 0.00003 |
| 491711.8 | 3608833.5 | 0.000119 | 9.33E-05 | 0.000119 | 0.00002 |
| 491706.7 | 3608855.18 | 0.000105 | 8.25E-05 | 0.000105 | 0.00002 |
| 491701.6 | 3608871.77 | 9.59E-05 | 7.54E-05 | 9.59E-05 | 0.00002 |
| 491699.05 | 3608899.83 | 8.31E-05 | 6.54E-05 | 8.31E-05 | 0.00002 |
| 491778.13 | 3608770.99 | 0.000185 | 0.000145 | 0.000185 | 0.00004 |
| 491773.03 | 3608791.4 | 0.00016 | 0.000126 | 0.00016 | 0.00003 |
| 491762.83 | 3608811.81 | 0.000139 | 0.000109 | 0.000139 | 0.00003 |
| 491760.28 | 3608828.39 | 0.000126 | 9.88E-05 | 0.000126 | 0.00003 |
| 491755.17 | 3608851.36 | 0.00011 | 8.62E-05 | 0.00011 | 0.00002 |
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| 491738.59 | 3608884.52 | 9.09E-05 | 7.15E-05 | 9.09E-05 | 0.00002 |
| 491738.59 | 3608902.38 | 8.31E-05 | 6.54E-05 | 8.31E-05 | 0.00002 |
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| 491802.37 | 3608806.71 | 0.00015 | 0.000118 | 0.00015 | 0.00003 |
| 491789.61 | 3608822.02 | 0.000135 | 0.000106 | 0.000135 | 0.00003 |
| 491788.34 | 3608839.87 | 0.000121 | 9.51E-05 | 0.000121 | 0.00002 |
| 491774.31 | 3608853.91 | 0.00011 | 8.66E-05 | 0.00011 | 0.00002 |
| 491778.13 | 3608875.59 | 9.84E-05 | 7.74E-05 | 9.84E-05 | 0.00002 |
| 491773.03 | 3608892.17 | 9E-05 | 7.07E-05 | 9E-05 | 0.00002 |
| 491770.48 | 3608916.41 | 7.97E-05 | 6.27E-05 | 7.97E-05 | 0.00002 |
| 491848.29 | 3608793.95 | 0.000168 | 0.000132 | 0.000168 | 0.00003 |
| 491845.74 | 3608815.64 | 0.000147 | 0.000116 | 0.000147 | 0.00003 |
| 491835.54 | 3608834.77 | 0.000131 | 0.000103 | 0.000131 | 0.00003 |

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| 491829.16 | 3608859.01 | 0.000114 | 8.92E-05 | 0.000114 | 0.00002 |
| 491824.06 | 3608874.32 | 0.000104 | 8.19E-05 | 0.000104 | 0.00002 |
| 491824.06 | 3608890.9 | 9.56E-05 | 7.52E-05 | 9.56E-05 | 0.00002 |
| 491820.23 | 3608904.93 | 8.89E-05 | 6.98E-05 | 8.89E-05 | 0.00002 |
| 491818.95 | 3608924.07 | 8.09E-05 | 6.36E-05 | 8.09E-05 | 0.00002 |
| 491817.68 | 3608940.65 | 7.48E-05 | 5.88E-05 | 7.48E-05 | 0.00001 |
| 491873.81 | 3608822.02 | 0.000143 | 0.000112 | 0.000143 | 0.00003 |
| 491864.88 | 3608842.43 | 0.000127 | 9.98E-05 | 0.000127 | 0.00003 |
| 491859.77 | 3608864.11 | 0.000113 | 8.87E-05 | 0.000113 | 0.00002 |
| 491855.95 | 3608878.14 | 0.000105 | 8.22E-05 | 0.000105 | 0.00002 |
| 491849.57 | 3608899.83 | 9.35E-05 | 7.34E-05 | 9.35E-05 | 0.00002 |
| 491857.22 | 3608915.14 | 8.73E-05 | 6.86E-05 | 8.73E-05 | 0.00002 |
| 491869.98 | 3608930.44 | 8.19E-05 | 6.44E-05 | 8.19E-05 | 0.00002 |
| 491890.39 | 3608932.99 | 8.18E-05 | 6.43E-05 | 8.18E-05 | 0.00002 |
| 491915.9 | 3608818.19 | 0.000144 | 0.000113 | 0.000144 | 0.00003 |
| 491914.63 | 3608838.6 | 0.000129 | 0.000101 | 0.000129 | 0.00003 |
| 491904.42 | 3608855.18 | 0.000119 | 9.34E-05 | 0.000119 | 0.00002 |
| 491903.14 | 3608874.32 | 0.000108 | 8.49E-05 | 0.000108 | 0.00002 |
| 491895.49 | 3608897.28 | 9.66E-05 | 7.59E-05 | 9.66E-05 | 0.00002 |
| 491915.9 | 3608899.83 | 9.55E-05 | 7.5E-05 | 9.55E-05 | 0.00002 |
| 491936.31 | 3608902.38 | 9.38E-05 | 7.36E-05 | 9.38E-05 | 0.00002 |
| 491952.89 | 3608910.03 | 8.99E-05 | 7.06E-05 | 8.99E-05 | 0.00002 |
| 491966.93 | 3608922.79 | 8.44E-05 | 6.62E-05 | 8.44E-05 | 0.00002 |
| 491923.55 | 3608947.03 | 7.74E-05 | 6.08E-05 | 7.74E-05 | 0.00002 |
| 491945.24 | 3608961.06 | 7.28E-05 | 5.72E-05 | 7.28E-05 | 0.00001 |
| 491737.31 | 3608925.34 | 7.45E-05 | 5.86E-05 | 7.45E-05 | 0.00001 |
| CONCUNIT ug/ m^3 | | 0 | 0 | 0 | 0.00000 |
| DEPUNIT g/m^ | 2 | 0 | 0 | 0 | 0.00000 |

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**
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**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.6.1
** Lakes Environmental Software Inc.
** Date: 1/2/2019
** File: C:\Users\xli\Desktop\3426.0024 Moss Street\construction
HRA\construction HRA.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE C:\Users\xli\Desktop\3426.0024 Moss Street\construction
HRA\construc
   MODELOPT DFAULT CONC
   AVERTIME ANNUAL
   URBANOPT 100000
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "construction HRA.err"
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION PAREA1       AREAPOLY   491858.590  3608344.807
9.870
** DESCRSRC Onsite construction souce
** ---------------------------------------------------------------------
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC offsite trucks
** PREFIX
** Length of Side = 8.50
** Configuration = Adjacent
** Emission Rate = 1.0
** Elevated
** Vertical Dimension = 6.22
** SZINIT = 1.45
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** 491668.491, 3608282.394, 7.18, 3.11, 3.95
** 491681.973, 3608287.088, 7.84, 3.11, 3.95
** 491683.943, 3608287.774, 7.85, 3.11, 3.95
** 491801.890, 3608328.842, 9.01, 3.11, 3.95
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   LOCATION L0000002     VOLUME   491594.590 3608428.146 6.49
   LOCATION L0000003     VOLUME   491602.457 3608431.365 6.59
   LOCATION L0000004     VOLUME   491610.324 3608434.583 6.69
   LOCATION L0000005     VOLUME   491617.513 3608436.347 6.79
   LOCATION L0000006     VOLUME   491620.107 3608428.253 6.82
   LOCATION L0000007     VOLUME   491622.701 3608420.158 6.85
   LOCATION L0000008     VOLUME   491625.295 3608412.064 6.89
   LOCATION L0000009     VOLUME   491627.890 3608403.969 6.92
   LOCATION L0000010     VOLUME   491630.484 3608395.874 6.95
   LOCATION L0000011     VOLUME   491633.078 3608387.780 6.99
   LOCATION L0000012     VOLUME   491635.672 3608379.685 7.02
   LOCATION L0000013     VOLUME   491638.266 3608371.591 7.05
   LOCATION L0000014     VOLUME   491640.860 3608363.496 7.08
   LOCATION L0000015     VOLUME   491643.454 3608355.402 7.12
   LOCATION L0000016     VOLUME   491646.048 3608347.307 7.15
   LOCATION L0000017     VOLUME   491648.642 3608339.213 7.18
   LOCATION L0000018     VOLUME   491651.236 3608331.118 7.22
   LOCATION L0000019     VOLUME   491653.830 3608323.024 7.25
   LOCATION L0000020     VOLUME   491656.424 3608314.929 7.28
   LOCATION L0000021     VOLUME   491659.018 3608306.835 7.32
   LOCATION L0000022     VOLUME   491661.612 3608298.740 7.35
   LOCATION L0000023     VOLUME   491664.206 3608290.646 7.38
   LOCATION L0000024     VOLUME   491666.800 3608282.551 7.42
   LOCATION L0000025     VOLUME   491674.376 3608284.443 7.51
   LOCATION L0000026     VOLUME   491682.403 3608287.238 7.62
   LOCATION L0000027     VOLUME   491690.431 3608290.033 7.72
   LOCATION L0000028     VOLUME   491698.458 3608292.828 7.82
   LOCATION L0000029     VOLUME   491706.485 3608295.623 7.92
   LOCATION L0000030     VOLUME   491714.513 3608298.418 8.03
   LOCATION L0000031     VOLUME   491722.540 3608301.213 8.13
   LOCATION L0000032     VOLUME   491730.567 3608304.008 8.23
   LOCATION L0000033     VOLUME   491738.595 3608306.803 8.34
   LOCATION L0000034     VOLUME   491746.622 3608309.598 8.44
   LOCATION L0000035     VOLUME   491754.649 3608312.393 8.54
   LOCATION L0000036     VOLUME   491762.677 3608315.188 8.64
   LOCATION L0000037     VOLUME   491770.704 3608317.983 8.75
   LOCATION L0000038     VOLUME   491778.731 3608320.778 8.85
   LOCATION L0000039     VOLUME   491786.759 3608323.573 8.95
   LOCATION L0000040     VOLUME   491794.786 3608326.368 9.05
** End of LINE VOLUME Source ID = SLINE1
** Source Parameters **
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   AREAVERT PAREA1       491669.950 3608504.740 491682.203 3608467.981
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   AREAVERT PAREA1       491666.274 3608404.266 491668.725 3608385.887
   AREAVERT PAREA1       491718.978 3608400.363 491749.155 3608306.700
** LINE VOLUME Source ID = SLINE1
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   SRCPARAM L0000007         0.025      3.11      3.95      1.45
   SRCPARAM L0000008         0.025      3.11      3.95      1.45
   SRCPARAM L0000009         0.025      3.11      3.95      1.45
   SRCPARAM L0000010         0.025      3.11      3.95      1.45
   SRCPARAM L0000011         0.025      3.11      3.95      1.45
   SRCPARAM L0000012         0.025      3.11      3.95      1.45
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   SRCPARAM L0000030         0.025      3.11      3.95      1.45
   SRCPARAM L0000031         0.025      3.11      3.95      1.45
   SRCPARAM L0000032         0.025      3.11      3.95      1.45
   SRCPARAM L0000033         0.025      3.11      3.95      1.45
   SRCPARAM L0000034         0.025      3.11      3.95      1.45
   SRCPARAM L0000035         0.025      3.11      3.95      1.45
   SRCPARAM L0000036         0.025      3.11      3.95      1.45
   SRCPARAM L0000037         0.025      3.11      3.95      1.45
   SRCPARAM L0000038         0.025      3.11      3.95      1.45
   SRCPARAM L0000039         0.025      3.11      3.95      1.45
   SRCPARAM L0000040         0.025      3.11      3.95      1.45
** ------------------------------------------------------------------
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   URBANSRC PAREA1
   URBANSRC L0000001
   URBANSRC L0000002
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   URBANSRC L0000003
   URBANSRC L0000004
   URBANSRC L0000005
   URBANSRC L0000006
   URBANSRC L0000007
   URBANSRC L0000008
   URBANSRC L0000009
   URBANSRC L0000010
   URBANSRC L0000011
   URBANSRC L0000012
   URBANSRC L0000013
   URBANSRC L0000014
   URBANSRC L0000015
   URBANSRC L0000016
   URBANSRC L0000017
   URBANSRC L0000018
   URBANSRC L0000019
   URBANSRC L0000020
   URBANSRC L0000021
   URBANSRC L0000022
   URBANSRC L0000023
   URBANSRC L0000024
   URBANSRC L0000025
   URBANSRC L0000026
   URBANSRC L0000027
   URBANSRC L0000028
   URBANSRC L0000029
   URBANSRC L0000030
   URBANSRC L0000031
   URBANSRC L0000032
   URBANSRC L0000033
   URBANSRC L0000034
   URBANSRC L0000035
   URBANSRC L0000036
   URBANSRC L0000037
   URBANSRC L0000038
   URBANSRC L0000039
   URBANSRC L0000040

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 2"
** WeekDays:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA1       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
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   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000001     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT L0000001     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000002     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT L0000002     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000003     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT L0000003     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000004     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT L0000004     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000005     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT L0000005     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000006     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT L0000006     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000007     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT L0000007     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000008     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT L0000008     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000009     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT L0000009     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000010     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT L0000010     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000011     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT L0000011     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000012     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000012     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT L0000012     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
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EMISFACT L0000012     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000013     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000013     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000014     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000014     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000015     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000015     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000015     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000015     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000016     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000016     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000016     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000016     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000017     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000017     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000017     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000017     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000018     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000018     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000018     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000018     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000019     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000019     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000019     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000019     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000020     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000020     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000020     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000020     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000021     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000021     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000021     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000021     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000022     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000022     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000023     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000023     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000023     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000024     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000024     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000024     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000024     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000025     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000025     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000025     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
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EMISFACT L0000025     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000026     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000026     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000026     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000027     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000027     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000028     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000028     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000028     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000029     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000029     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000030     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000030     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000030     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000030     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000031     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000031     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000031     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000031     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000032     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000032     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000032     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000032     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000033     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000033     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000033     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000033     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000034     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000034     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000034     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000034     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000035     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000035     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000035     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000035     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000036     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000036     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000036     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000036     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000037     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000037     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000037     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000037     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000038     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000038     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000038     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
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   EMISFACT L0000038     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000039     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000039     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT L0000039     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0000039     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000040     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000040     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT L0000040     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0000040     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000012     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000012     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000012     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000012     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000015     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000015     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000015     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000015     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000016     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000016     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000016     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   SRCGROUP LINE     L0000001 L0000002 L0000003 L0000004 L0000005
L0000006
   SRCGROUP LINE     L0000007 L0000008 L0000009 L0000010 L0000011
L0000012
   SRCGROUP LINE     L0000013 L0000014 L0000015 L0000016 L0000017
L0000018
   SRCGROUP LINE     L0000019 L0000020 L0000021 L0000022 L0000023
L0000024
   SRCGROUP LINE     L0000025 L0000026 L0000027 L0000028 L0000029
L0000030
   SRCGROUP LINE     L0000031 L0000032 L0000033 L0000034 L0000035
L0000036
   SRCGROUP LINE     L0000037 L0000038 L0000039 L0000040
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
   INCLUDED "construction HRA.rou"
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE ..\722904\722904.SFC
```

```
   PROFFILE ..\722904\722904.PFL
   SURFDATA 3178 2009
   UAIRDATA 3190 2009
   PROFBASE 157.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE ANNUAL ALL "construction HRA.AD\AN00GALL.PLT" 31
   PLOTFILE ANNUAL AREA "construction HRA.AD\AN00G001.PLT" 32
   PLOTFILE ANNUAL LINE "construction HRA.AD\AN00G002.PLT" 33
   SUMMFILE "construction HRA.sum"
OU FINISHED

 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************


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PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                                                  ***     MODEL SETUP
OPTIONS SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for    41
Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =    100000.0 ;  Urban Roughness Length =  1.000 m

 **Model Uses Regulatory DEFAULT Options:
         1. Stack-tip Downwash.
```

```
         2. Model Accounts for ELEVated Terrain Effects.
         3. Use Calms Processing Routine.
         4. Use Missing Data Processing Routine.
         5. No Exponential Decay.
         6. Urban Roughness Length of 1.0 Meter Assumed.

 **Other Options Specified:
         CCVR_Sub - Meteorological data includes CCVR substitutions
         TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  DPM

 **Model Calculates ANNUAL Averages Only

 **This Run Includes:     41 Source(s);       3 Source Group(s); and
389 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:     40 VOLUME source(s)
                 and:      1 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 OPENPIT source(s)
                 and:      0 BUOYANT LINE source(s) with      0 line(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  14134

 **Output Options Selected:
          Model Outputs Tables of ANNUAL Averages by Receptor
          Model Outputs External File(s) of High Values for Plotting
(PLOTFILE Keyword)
          Model Outputs Separate Summary File of High Ranked Values
(SUMMFILE Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for
Calm Hours
                                                                  m for
Missing Hours
                                                                  b for
Both Calm and Missing Hours

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =
157.00 ;  Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units =
GRAMS/SEC                                ;  Emission Rate Unit Factor
=   0.10000E+07
                  Output Units   = MICROGRAMS/M**3
```

```
 **Approximate Storage Requirements of Model =      3.6 MB of RAM.

 **Input Runstream File:          aermod.inp
 **Output Print File:             aermod.out

 **Detailed Error/Message File:   construction HRA.err
 **File for Summary of Results:   construction HRA.sum

 *** AERMOD - VERSION  18081 ***   *** C:\Users\xli\Desktop\3426.0024
Moss Street\construction HRA\construc ***        01/02/19
 *** AERMET - VERSION  14134 ***   ***
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PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN


                                                        *** VOLUME SOURCE
DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE
INIT.    INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT
SY       SZ     SOURCE  SCALAR VARY
     ID         CATS.                (METERS) (METERS) (METERS) (METERS)
(METERS) (METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 L0000001         0   0.25000E-01  491586.7 3608424.9     6.4     3.11
3.95     1.45     YES   HRDOW
 L0000002         0   0.25000E-01  491594.6 3608428.1     6.5     3.11
3.95     1.45     YES   HRDOW
 L0000003         0   0.25000E-01  491602.5 3608431.4     6.6     3.11
3.95     1.45     YES   HRDOW
 L0000004         0   0.25000E-01  491610.3 3608434.6     6.7     3.11
3.95     1.45     YES   HRDOW
 L0000005         0   0.25000E-01  491617.5 3608436.3     6.8     3.11
3.95     1.45     YES   HRDOW
 L0000006         0   0.25000E-01  491620.1 3608428.3     6.8     3.11
3.95     1.45     YES   HRDOW
 L0000007         0   0.25000E-01  491622.7 3608420.2     6.8     3.11
3.95     1.45     YES   HRDOW
 L0000008         0   0.25000E-01  491625.3 3608412.1     6.9     3.11
3.95     1.45     YES   HRDOW
 L0000009         0   0.25000E-01  491627.9 3608404.0     6.9     3.11
3.95     1.45     YES   HRDOW
 L0000010         0   0.25000E-01  491630.5 3608395.9     7.0     3.11
3.95     1.45     YES   HRDOW
 L0000011         0   0.25000E-01  491633.1 3608387.8     7.0     3.11
3.95     1.45     YES   HRDOW
```

```
 L0000012          0   0.25000E-01  491635.7 3608379.7     7.0     3.11
3.95     1.45     YES   HRDOW
 L0000013          0   0.25000E-01  491638.3 3608371.6     7.0     3.11
3.95     1.45     YES   HRDOW
 L0000014          0   0.25000E-01  491640.9 3608363.5     7.1     3.11
3.95     1.45     YES   HRDOW
 L0000015          0   0.25000E-01  491643.5 3608355.4     7.1     3.11
3.95     1.45     YES   HRDOW
 L0000016          0   0.25000E-01  491646.0 3608347.3     7.1     3.11
3.95     1.45     YES   HRDOW
 L0000017          0   0.25000E-01  491648.6 3608339.2     7.2     3.11
3.95     1.45     YES   HRDOW
 L0000018          0   0.25000E-01  491651.2 3608331.1     7.2     3.11
3.95     1.45     YES   HRDOW
 L0000019          0   0.25000E-01  491653.8 3608323.0     7.2     3.11
3.95     1.45     YES   HRDOW
 L0000020          0   0.25000E-01  491656.4 3608314.9     7.3     3.11
3.95     1.45     YES   HRDOW
 L0000021          0   0.25000E-01  491659.0 3608306.8     7.3     3.11
3.95     1.45     YES   HRDOW
 L0000022          0   0.25000E-01  491661.6 3608298.7     7.3     3.11
3.95     1.45     YES   HRDOW
 L0000023          0   0.25000E-01  491664.2 3608290.6     7.4     3.11
3.95     1.45     YES   HRDOW
 L0000024          0   0.25000E-01  491666.8 3608282.6     7.4     3.11
3.95     1.45     YES   HRDOW
 L0000025          0   0.25000E-01  491674.4 3608284.4     7.5     3.11
3.95     1.45     YES   HRDOW
 L0000026          0   0.25000E-01  491682.4 3608287.2     7.6     3.11
3.95     1.45     YES   HRDOW
 L0000027          0   0.25000E-01  491690.4 3608290.0     7.7     3.11
3.95     1.45     YES   HRDOW
 L0000028          0   0.25000E-01  491698.5 3608292.8     7.8     3.11
3.95     1.45     YES   HRDOW
 L0000029          0   0.25000E-01  491706.5 3608295.6     7.9     3.11
3.95     1.45     YES   HRDOW
 L0000030          0   0.25000E-01  491714.5 3608298.4     8.0     3.11
3.95     1.45     YES   HRDOW
 L0000031          0   0.25000E-01  491722.5 3608301.2     8.1     3.11
3.95     1.45     YES   HRDOW
 L0000032          0   0.25000E-01  491730.6 3608304.0     8.2     3.11
3.95     1.45     YES   HRDOW
 L0000033          0   0.25000E-01  491738.6 3608306.8     8.3     3.11
3.95     1.45     YES   HRDOW
 L0000034          0   0.25000E-01  491746.6 3608309.6     8.4     3.11
3.95     1.45     YES   HRDOW
 L0000035          0   0.25000E-01  491754.6 3608312.4     8.5     3.11
3.95     1.45     YES   HRDOW
 L0000036          0   0.25000E-01  491762.7 3608315.2     8.6     3.11
3.95     1.45     YES   HRDOW
 L0000037          0   0.25000E-01  491770.7 3608318.0     8.8     3.11
3.95     1.45     YES   HRDOW
```

```
 L0000038         0   0.25000E-01  491778.7 3608320.8     8.9     3.11
3.95     1.45     YES   HRDOW
 L0000039         0   0.25000E-01  491786.8 3608323.6     9.0     3.11
3.95     1.45     YES   HRDOW
 L0000040         0   0.25000E-01  491794.8 3608326.4     9.1     3.11
3.95     1.45     YES   HRDOW

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN


                                                   *** AREAPOLY SOURCE
DATA ***

               NUMBER EMISSION RATE   LOCATION OF AREA  BASE
RELEASE  NUMBER      INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC       X        Y      ELEV.
HEIGHT  OF VERTS.     SZ     SOURCE  SCALAR VARY
     ID         CATS.   /METER**2)   (METERS) (METERS) (METERS)
(METERS)            (METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 PAREA1           0   0.10000E+01  491858.6 3608344.8     9.9     5.00
10         0.00     YES   HRDOW

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN


                                                 *** SOURCE IDs DEFINING
SOURCE GROUPS ***

 SRCGROUP ID                                                SOURCE IDs
 -----------                                                ----------


  AREA       PAREA1      ,

  LINE       L0000001    , L0000002    , L0000003    , L0000004    ,
L0000005    , L0000006    , L0000007    , L0000008    ,
```

```
             L0000009    , L0000010    , L0000011    , L0000012    ,
L0000013    , L0000014    , L0000015    , L0000016    ,

             L0000017    , L0000018    , L0000019    , L0000020    ,
L0000021    , L0000022    , L0000023    , L0000024    ,

             L0000025    , L0000026    , L0000027    , L0000028    ,
L0000029    , L0000030    , L0000031    , L0000032    ,

             L0000033    , L0000034    , L0000035    , L0000036    ,
L0000037    , L0000038    , L0000039    , L0000040    ,

  ALL        PAREA1      , L0000001    , L0000002    , L0000003    ,
L0000004    , L0000005    , L0000006    , L0000007    ,

             L0000008    , L0000009    , L0000010    , L0000011    ,
L0000012    , L0000013    , L0000014    , L0000015    ,

             L0000016    , L0000017    , L0000018    , L0000019    ,
L0000020    , L0000021    , L0000022    , L0000023    ,

             L0000024    , L0000025    , L0000026    , L0000027    ,
L0000028    , L0000029    , L0000030    , L0000031    ,

             L0000032    , L0000033    , L0000034    , L0000035    ,
L0000036    , L0000037    , L0000038    , L0000039    ,

             L0000040    ,
```



```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN


                                          *** SOURCE IDs DEFINED AS
URBAN SOURCES ***

  URBAN ID   URBAN POP                                    SOURCE IDs
  --------   ---------                                    ----------


               100000.   PAREA1      , L0000001    , L0000002    ,
L0000003    , L0000004    , L0000005    , L0000006    ,
 L0000007    ,

             L0000008    , L0000009    , L0000010    , L0000011    ,
L0000012    , L0000013    , L0000014    , L0000015    ,
```

```
             L0000016    , L0000017    , L0000018    , L0000019    ,
L0000020    , L0000021    , L0000022    , L0000023    ,

             L0000024    , L0000025    , L0000026    , L0000027    ,
L0000028    , L0000029    , L0000030    , L0000031    ,

             L0000032    , L0000033    , L0000034    , L0000035    ,
L0000036    , L0000037    , L0000038    , L0000039    ,

             L0000040    ,

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = PAREA1       ; SOURCE TYPE = AREAPOLY :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

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```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000001     ; SOURCE TYPE = VOLUME   :

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```



* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000002     ; SOURCE TYPE = VOLUME   :

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

```
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000003     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
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                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION  18081 ***   *** C:\Users\xli\Desktop\3426.0024
Moss Street\construction HRA\construc ***        01/02/19
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000004     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION  18081 ***   *** C:\Users\xli\Desktop\3426.0024
Moss Street\construction HRA\construc ***        01/02/19
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000005     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION  18081 ***   *** C:\Users\xli\Desktop\3426.0024
Moss Street\construction HRA\construc ***        01/02/19
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000006     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
```

```
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION  18081 ***   *** C:\Users\xli\Desktop\3426.0024
Moss Street\construction HRA\construc ***        01/02/19
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000007     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
```

```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```



```
                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000008     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000009     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION  18081 ***   *** C:\Users\xli\Desktop\3426.0024
Moss Street\construction HRA\construc ***        01/02/19
 *** AERMET - VERSION  14134 ***   ***
***        12:24:57

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000010     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION  18081 ***   *** C:\Users\xli\Desktop\3426.0024
Moss Street\construction HRA\construc ***        01/02/19
 *** AERMET - VERSION  14134 ***   ***
***        12:24:57

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000011     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION  18081 ***   *** C:\Users\xli\Desktop\3426.0024
Moss Street\construction HRA\construc ***        01/02/19
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000012     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION  18081 ***   *** C:\Users\xli\Desktop\3426.0024
Moss Street\construction HRA\construc ***        01/02/19
 *** AERMET - VERSION  14134 ***   ***
***        12:24:57

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *
```

```
 SOURCE ID = L0000013     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```



```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000014     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION  18081 ***   *** C:\Users\xli\Desktop\3426.0024
Moss Street\construction HRA\construc ***        01/02/19
 *** AERMET - VERSION  14134 ***   ***
***        12:24:57

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000015     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000016 ; SOURCE TYPE = VOLUME :

| HOUR | SCALAR | HOUR | SCALAR | HOUR | SCALAR | HOUR | SCALAR | HOUR | SCALAR | HOUR | SCALAR | HOUR | SCALAR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY OF WEEK = WEEKDAY | | | | | | | | | | | | | |
| 1 | .0000E+00 | 2 | .0000E+00 | 3 | .0000E+00 | 4 | .0000E+00 | 5 | .0000E+00 | 6 | .0000E+00 | 7 | .0000E+00 |
| 8 | .0000E+00 | 9 | .1000E+01 | 10 | .1000E+01 | 11 | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 | .1000E+01 |
| 15 | .1000E+01 | 16 | .1000E+01 | 17 | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 |
| 22 | .0000E+00 | 23 | .0000E+00 | 24 | .0000E+00 | | | | | | | | |
| DAY OF WEEK = SATURDAY | | | | | | | | | | | | | |
| 1 | .0000E+00 | 2 | .0000E+00 | 3 | .0000E+00 | 4 | .0000E+00 | 5 | .0000E+00 | 6 | .0000E+00 | 7 | .0000E+00 |
| 8 | .0000E+00 | 9 | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 | .0000E+00 |
| 15 | .0000E+00 | 16 | .0000E+00 | 17 | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 |
| 22 | .0000E+00 | 23 | .0000E+00 | 24 | .0000E+00 | | | | | | | | |
| DAY OF WEEK = SUNDAY | | | | | | | | | | | | | |
| 1 | .0000E+00 | 2 | .0000E+00 | 3 | .0000E+00 | 4 | .0000E+00 | 5 | .0000E+00 | 6 | .0000E+00 | 7 | .0000E+00 |
| 8 | .0000E+00 | 9 | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 | .0000E+00 |
| 15 | .0000E+00 | 16 | .0000E+00 | 17 | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 |
| 22 | .0000E+00 | 23 | .0000E+00 | 24 | .0000E+00 | | | | | | | | |



* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000017 ; SOURCE TYPE = VOLUME :

| HOUR | SCALAR | HOUR | SCALAR | HOUR | SCALAR | HOUR | SCALAR | HOUR | SCALAR | HOUR | SCALAR | HOUR | SCALAR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

- - - -

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION  18081 ***   *** C:\Users\xli\Desktop\3426.0024
Moss Street\construction HRA\construc ***        01/02/19
 *** AERMET - VERSION  14134 ***   ***
***        12:24:57

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000019     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION  18081 ***   *** C:\Users\xli\Desktop\3426.0024
Moss Street\construction HRA\construc ***        01/02/19
 *** AERMET - VERSION  14134 ***   ***
***        12:24:57
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                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000020     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```



```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000021     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION  18081 ***   *** C:\Users\xli\Desktop\3426.0024
Moss Street\construction HRA\construc ***        01/02/19
 *** AERMET - VERSION  14134 ***   ***
***        12:24:57

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000022     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```



```
                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000023     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000024     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION  18081 ***   *** C:\Users\xli\Desktop\3426.0024
Moss Street\construction HRA\construc ***        01/02/19
 *** AERMET - VERSION  14134 ***   ***
***        12:24:57

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000025     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION  18081 ***   *** C:\Users\xli\Desktop\3426.0024
Moss Street\construction HRA\construc ***        01/02/19
 *** AERMET - VERSION  14134 ***   ***
***        12:24:57

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000026     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION  18081 ***   *** C:\Users\xli\Desktop\3426.0024
Moss Street\construction HRA\construc ***        01/02/19
 *** AERMET - VERSION  14134 ***   ***
***        12:24:57

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000027     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION  18081 ***   *** C:\Users\xli\Desktop\3426.0024
Moss Street\construction HRA\construc ***        01/02/19
 *** AERMET - VERSION  14134 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *
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```
 SOURCE ID = L0000028     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```



```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000029     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION  18081 ***   *** C:\Users\xli\Desktop\3426.0024
Moss Street\construction HRA\construc ***        01/02/19
 *** AERMET - VERSION  14134 ***   ***
***        12:24:57

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000030     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000031 ; SOURCE TYPE = VOLUME :

| HOUR | SCALAR | HOUR | SCALAR | HOUR | SCALAR | HOUR | SCALAR | HOUR | SCALAR | HOUR | SCALAR | HOUR | SCALAR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY OF WEEK = WEEKDAY | | | | | | | | | | | | | |
| 1 | .0000E+00 | 2 | .0000E+00 | 3 | .0000E+00 | 4 | .0000E+00 | 5 | .0000E+00 | 6 | .0000E+00 | 7 | .0000E+00 |
| 8 | .0000E+00 | 9 | .1000E+01 | 10 | .1000E+01 | 11 | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 | 14 | .1000E+01 |
| 15 | .1000E+01 | 16 | .1000E+01 | 17 | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 |
| 22 | .0000E+00 | 23 | .0000E+00 | 24 | .0000E+00 | | | | | | | | |
| DAY OF WEEK = SATURDAY | | | | | | | | | | | | | |
| 1 | .0000E+00 | 2 | .0000E+00 | 3 | .0000E+00 | 4 | .0000E+00 | 5 | .0000E+00 | 6 | .0000E+00 | 7 | .0000E+00 |
| 8 | .0000E+00 | 9 | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 | .0000E+00 |
| 15 | .0000E+00 | 16 | .0000E+00 | 17 | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 |
| 22 | .0000E+00 | 23 | .0000E+00 | 24 | .0000E+00 | | | | | | | | |
| DAY OF WEEK = SUNDAY | | | | | | | | | | | | | |
| 1 | .0000E+00 | 2 | .0000E+00 | 3 | .0000E+00 | 4 | .0000E+00 | 5 | .0000E+00 | 6 | .0000E+00 | 7 | .0000E+00 |
| 8 | .0000E+00 | 9 | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 | 14 | .0000E+00 |
| 15 | .0000E+00 | 16 | .0000E+00 | 17 | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 |
| 22 | .0000E+00 | 23 | .0000E+00 | 24 | .0000E+00 | | | | | | | | |



* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000032 ; SOURCE TYPE = VOLUME :

| HOUR | SCALAR | HOUR | SCALAR | HOUR | SCALAR | HOUR | SCALAR | HOUR | SCALAR | HOUR | SCALAR | HOUR | SCALAR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

- - - -

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION  18081 ***   *** C:\Users\xli\Desktop\3426.0024
Moss Street\construction HRA\construc ***        01/02/19
 *** AERMET - VERSION  14134 ***   ***
***        12:24:57

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000034     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION  18081 ***   *** C:\Users\xli\Desktop\3426.0024
Moss Street\construction HRA\construc ***        01/02/19
 *** AERMET - VERSION  14134 ***   ***
***        12:24:57
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```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000035     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```





```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000036     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION  18081 ***   *** C:\Users\xli\Desktop\3426.0024
Moss Street\construction HRA\construc ***        01/02/19
 *** AERMET - VERSION  14134 ***   ***
***        12:24:57

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000037     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```



```
                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000038     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000039     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
```



```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY
AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000040     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01
13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00
5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00
13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00
21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00

 *** AERMOD - VERSION  18081 ***   *** C:\Users\xli\Desktop\3426.0024
Moss Street\construction HRA\construc ***        01/02/19
 *** AERMET - VERSION  14134 ***   ***
***        12:24:57

PAGE  47
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                                                *** DISCRETE CARTESIAN
RECEPTORS ***
                                              (X-COORD, Y-COORD, ZELEV,
ZHILL, ZFLAG)
                                                                (METERS)

     ( 491856.9, 3608423.8,       9.9,       9.9,       0.0);
( 491770.8, 3608296.6,       8.8,       8.8,       0.0);
     ( 491786.7, 3608300.4,       9.0,       9.0,       0.0);
( 491777.1, 3608270.6,       8.8,       8.8,       0.0);
     ( 491794.4, 3608275.9,       9.1,       9.1,       0.0);
( 491789.9, 3608254.4,       9.0,       9.0,       0.0);
     ( 491793.9, 3608239.8,       9.0,       9.0,       0.0);
( 491796.5, 3608225.8,       9.1,       9.1,       0.0);
     ( 491799.2, 3608213.2,       9.1,       9.1,       0.0);
( 491804.5, 3608198.5,       9.2,       9.2,       0.0);
     ( 491835.2, 3608317.0,       9.6,       9.6,       0.0);
( 491837.8, 3608303.7,       9.6,       9.6,       0.0);
     ( 491843.8, 3608287.7,       9.7,       9.7,       0.0);
( 491851.1, 3608274.4,       9.8,       9.8,       0.0);
     ( 491863.1, 3608247.2,       9.9,       9.9,       0.0);
( 491867.7, 3608231.5,      10.0,      10.0,       0.0);
     ( 491875.0, 3608218.6,      10.1,      10.1,       0.0);
( 491878.7, 3608195.6,      10.1,      10.1,       0.0);
     ( 491885.2, 3608177.2,      10.2,      10.2,       0.0);
( 491807.8, 3608183.6,       9.2,       9.2,       0.0);
```

( 491812.4, 3608168.0, 9.3, 9.3, 0.0);
( 491819.8, 3608146.8, 9.4, 9.4, 0.0);
( 491840.0, 3608155.1, 9.6, 9.6, 0.0);
( 491868.6, 3608170.7, 10.0, 10.0, 0.0);
( 491865.3, 3608414.4, 10.0, 10.0, 0.0);
( 491867.5, 3608403.0, 10.0, 10.0, 0.0);
( 491872.0, 3608392.3, 10.0, 10.0, 0.0);
( 491874.9, 3608377.6, 10.1, 10.1, 0.0);
( 491886.8, 3608431.9, 10.2, 10.2, 0.0);
( 491890.7, 3608422.3, 10.3, 10.3, 0.0);
( 491896.4, 3608409.8, 10.4, 10.4, 0.0);
( 491900.3, 3608397.4, 10.4, 10.4, 0.0);
( 491903.7, 3608384.9, 10.5, 10.5, 0.0);
( 491912.8, 3608444.9, 10.6, 10.6, 0.0);
( 491917.9, 3608432.5, 10.6, 10.6, 0.0);
( 491921.3, 3608418.9, 10.7, 10.7, 0.0);
( 491927.0, 3608408.1, 10.7, 10.7, 0.0);
( 491930.9, 3608396.2, 10.8, 10.8, 0.0);
( 491950.7, 3608425.1, 11.1, 11.1, 0.0);
( 491954.1, 3608416.1, 11.1, 11.1, 0.0);
( 491959.2, 3608404.7, 11.2, 11.2, 0.0);
( 491984.1, 3608467.6, 11.5, 11.5, 0.0);
( 491987.5, 3608454.0, 11.5, 11.5, 0.0);
( 491993.2, 3608442.7, 11.6, 11.6, 0.0);
( 491998.3, 3608432.5, 11.7, 11.7, 0.0);
( 492002.2, 3608421.1, 11.7, 11.7, 0.0);
( 492012.4, 3608475.5, 11.8, 11.8, 0.0);
( 492015.2, 3608463.6, 11.9, 11.9, 0.0);
( 492020.9, 3608451.1, 11.9, 11.9, 0.0);
( 492024.3, 3608441.5, 12.0, 12.0, 0.0);
( 492028.2, 3608428.5, 12.0, 12.0, 0.0);
( 492037.3, 3608486.2, 12.2, 12.2, 0.0);
( 492042.4, 3608472.1, 12.2, 12.2, 0.0);
( 492046.4, 3608461.3, 12.3, 12.3, 0.0);
( 492050.9, 3608450.6, 12.3, 12.3, 0.0);
( 492055.4, 3608440.4, 12.4, 12.4, 0.0);
( 492065.6, 3608493.6, 12.5, 12.5, 0.0);
( 492069.0, 3608481.1, 12.6, 12.6, 0.0);
( 492075.2, 3608469.3, 12.6, 12.6, 0.0);
( 492078.1, 3608457.4, 12.7, 12.7, 0.0);
( 492082.6, 3608446.6, 12.7, 12.7, 0.0);
( 491873.2, 3608334.6, 10.1, 10.1, 0.0);
( 491929.8, 3608349.8, 10.8, 10.8, 0.0);
( 491880.0, 3608317.0, 10.1, 10.1, 0.0);
( 491893.2, 3608305.3, 10.3, 10.3, 0.0);
( 491889.9, 3608289.3, 10.3, 10.3, 0.0);
( 491907.2, 3608277.4, 10.5, 10.5, 0.0);
( 491909.9, 3608246.7, 10.5, 10.5, 0.0);
( 491914.5, 3608232.8, 10.6, 10.6, 0.0);
( 491920.5, 3608219.4, 10.7, 10.7, 0.0);
( 491923.8, 3608203.5, 10.7, 10.7, 0.0);
( 491922.5, 3608187.5, 10.7, 10.7, 0.0);

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     ( 491933.8, 3608176.2,      10.8,      10.8,       0.0);
( 491936.5, 3608332.6,      10.9,      10.9,       0.0);
     ( 491945.8, 3608306.7,      11.0,      11.0,       0.0);
( 491948.5, 3608292.0,      11.0,      11.0,       0.0);
     ( 491954.5, 3608266.7,      11.1,      11.1,       0.0);
( 491965.8, 3608249.4,      11.2,      11.2,       0.0);
     ( 491959.8, 3608230.8,      11.2,      11.2,       0.0);
( 491973.1, 3608219.4,      11.3,      11.3,       0.0);
     ( 491965.1, 3608198.8,      11.2,      11.2,       0.0);
( 491987.1, 3608190.1,      11.5,      11.5,       0.0);
     ( 491975.8, 3608366.6,      11.4,      11.4,       0.0);
( 491980.5, 3608353.3,      11.4,      11.4,       0.0);
     ( 491988.4, 3608337.3,      11.5,      11.5,       0.0);
( 491991.8, 3608319.3,      11.6,      11.6,       0.0);
     ( 492001.1, 3608294.7,      11.7,      11.7,       0.0);
( 492006.4, 3608282.0,      11.8,      11.8,       0.0);
     ( 492013.1, 3608266.0,      11.9,      11.9,       0.0);
( 492013.1, 3608251.4,      11.9,      11.9,       0.0);
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                                                  *** DISCRETE CARTESIAN
RECEPTORS ***
                                                (X-COORD, Y-COORD, ZELEV,
ZHILL, ZFLAG)
                                                                (METERS)

     ( 492028.4, 3608241.4,      12.0,      12.0,       0.0);
( 492019.1, 3608222.8,      11.9,      11.9,       0.0);
     ( 492045.7, 3608210.8,      12.3,      12.3,       0.0);
( 492031.0, 3608385.2,      12.1,      12.1,       0.0);
     ( 492035.7, 3608369.9,      12.1,      12.1,       0.0);
( 492027.1, 3608353.3,      12.0,      12.0,       0.0);
     ( 492046.4, 3608340.0,      12.3,      12.3,       0.0);
( 492040.4, 3608324.6,      12.2,      12.2,       0.0);
     ( 492057.0, 3608313.3,      12.4,      12.4,       0.0);
( 492055.7, 3608297.3,      12.4,      12.4,       0.0);
     ( 492059.0, 3608282.0,      12.4,      12.4,       0.0);
( 492069.7, 3608270.0,      12.6,      12.6,       0.0);
     ( 492061.7, 3608253.4,      12.5,      12.5,       0.0);
( 492078.3, 3608241.4,      12.7,      12.7,       0.0);
     ( 492079.7, 3608226.8,      12.7,      12.7,       0.0);
( 492069.5, 3608395.3,      12.6,      12.6,       0.0);
     ( 492076.2, 3608376.0,      12.7,      12.7,       0.0);
( 492085.5, 3608364.0,      12.8,      12.8,       0.0);
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    ( 492102.1, 3608406.6,      13.0,      13.0,       0.0);
( 492129.4, 3608410.6,      13.3,      13.3,       0.0);
    ( 492095.5, 3608352.7,      12.9,      12.9,       0.0);
( 492094.1, 3608336.0,      12.9,      12.9,       0.0);
    ( 492135.4, 3608348.7,      13.4,      13.4,       0.0);
( 492101.5, 3608312.7,      13.0,      13.0,       0.0);
    ( 492120.8, 3608244.1,      13.2,      13.2,       0.0);
( 492106.8, 3608297.4,      13.0,      13.0,       0.0);
    ( 492168.1, 3608256.1,      13.8,      13.8,       0.0);
( 491832.5, 3608107.0,       9.1,       9.1,       0.0);
    ( 491853.8, 3608116.3,       9.5,       9.5,       0.0);
( 491874.4, 3608123.6,       9.8,       9.8,       0.0);
    ( 491899.7, 3608129.0,      10.3,      10.3,       0.0);
( 491836.5, 3608093.0,       9.0,       9.0,       0.0);
    ( 491877.1, 3608106.3,       9.7,       9.7,       0.0);
( 491905.0, 3608119.0,      10.3,      10.3,       0.0);
    ( 491907.7, 3608101.7,      10.2,      10.2,       0.0);
( 491883.7, 3608091.0,       9.7,       9.7,       0.0);
    ( 491848.5, 3608065.0,       8.8,       8.8,       0.0);
( 491853.1, 3608053.1,       8.8,       8.8,       0.0);
    ( 491873.1, 3608063.0,       9.2,       9.2,       0.0);
( 491909.7, 3608072.4,      10.1,      10.1,       0.0);
    ( 491921.0, 3608059.0,      10.4,      10.4,       0.0);
( 491925.7, 3608040.4,      10.3,      10.3,       0.0);
    ( 491856.4, 3608031.8,       8.9,       8.9,       0.0);
( 491867.1, 3608010.4,       9.0,       9.0,       0.0);
    ( 491875.1, 3607976.5,       9.1,       9.1,       0.0);
( 491918.4, 3607991.8,       9.8,       9.8,       0.0);
    ( 491945.0, 3608000.5,      10.4,      10.4,       0.0);
( 491935.1, 3608141.5,      10.8,      10.8,       0.0);
    ( 491960.9, 3608152.6,      11.2,      11.2,       0.0);
( 491988.5, 3608164.6,      11.5,      11.5,       0.0);
    ( 491946.1, 3608114.8,      11.0,      11.0,       0.0);
( 491988.5, 3608129.5,      11.5,      11.5,       0.0);
    ( 492018.0, 3608107.4,      11.9,      11.9,       0.0);
( 491955.4, 3608089.0,      11.1,      11.1,       0.0);
    ( 491963.7, 3608059.5,      11.2,      11.2,       0.0);
( 491984.9, 3608059.5,      11.5,      11.5,       0.0);
    ( 492031.9, 3608066.9,      12.1,      12.1,       0.0);
( 492020.8, 3608040.2,      11.8,      11.8,       0.0);
    ( 491977.5, 3608027.3,      11.1,      11.1,       0.0);
( 491983.9, 3608007.9,      11.0,      11.0,       0.0);
    ( 492044.8, 3608018.0,      11.8,      11.8,       0.0);
( 492048.5, 3608001.4,      11.7,      11.7,       0.0);
    ( 491999.6, 3607989.5,      11.0,      11.0,       0.0);
( 492038.3, 3608171.9,      12.2,      12.2,       0.0);
    ( 492047.5, 3608155.4,      12.3,      12.3,       0.0);
( 492086.2, 3608187.6,      12.8,      12.8,       0.0);
    ( 492095.5, 3608171.0,      12.9,      12.9,       0.0);
( 492054.0, 3608123.1,      12.4,      12.4,       0.0);
    ( 492109.3, 3608145.2,      13.1,      13.1,       0.0);
( 492058.6, 3608100.1,      12.4,      12.4,       0.0);
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     ( 492123.1, 3608113.9,      13.3,      13.3,       0.0);
( 492135.1, 3608094.5,      13.4,      13.4,       0.0);
     ( 492076.1, 3608065.0,      12.7,      12.7,       0.0);
( 492085.3, 3608030.0,      12.5,      12.5,       0.0);
     ( 492139.7, 3608066.0,      13.5,      13.5,       0.0);
( 492139.7, 3608212.5,      13.5,      13.5,       0.0);
     ( 492183.9, 3608227.2,      14.0,      14.0,       0.0);
( 492143.4, 3608192.2,      13.5,      13.5,       0.0);
     ( 492195.0, 3608204.2,      14.2,      14.2,       0.0);
( 492203.3, 3608183.0,      14.3,      14.3,       0.0);
     ( 492151.7, 3608153.5,      13.6,      13.6,       0.0);
( 492197.8, 3608162.7,      14.2,      14.2,       0.0);
     ( 492159.0, 3608135.1,      13.7,      13.7,       0.0);
( 492164.6, 3608118.5,      13.8,      13.8,       0.0);
     ( 492219.9, 3608141.5,      14.5,      14.5,       0.0);
( 492223.5, 3608114.8,      14.5,      14.5,       0.0);
     ( 492231.8, 3608098.2,      14.7,      14.7,       0.0);
( 492170.1, 3608097.3,      13.9,      13.9,       0.0);
     ( 492180.2, 3608077.9,      14.0,      14.0,       0.0);
( 492183.9, 3608055.8,      14.0,      14.0,       0.0);
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                                                  *** DISCRETE CARTESIAN
RECEPTORS ***
                                                (X-COORD, Y-COORD, ZELEV,
ZHILL, ZFLAG)
                                                                  (METERS)

     ( 492218.9, 3608068.7,      14.5,      14.5,       0.0);
( 492246.6, 3608230.0,      14.8,      14.8,       0.0);
     ( 492239.2, 3608207.9,      14.7,      14.7,       0.0);
( 492242.0, 3608194.1,      14.8,      14.8,       0.0);
     ( 492246.6, 3608176.6,      14.8,      14.8,       0.0);
( 492257.6, 3608163.6,      15.0,      15.0,       0.0);
     ( 492261.3, 3608145.2,      15.0,      15.0,       0.0);
( 492266.9, 3608124.0,      15.1,      15.1,       0.0);
     ( 492272.4, 3608108.4,      15.2,      15.2,       0.0);
( 492277.9, 3608094.5,      15.2,      15.2,       0.0);
     ( 492285.3, 3608081.6,      15.3,      15.3,       0.0);
( 491685.3, 3608168.3,       7.7,       7.7,       0.0);
     ( 491690.0, 3608145.2,       7.7,       7.7,       0.0);
( 491694.6, 3608131.4,       7.6,       7.6,       0.0);
     ( 491698.2, 3608118.5,       7.5,       7.5,       0.0);
( 491701.0, 3608105.6,       7.4,       7.4,       0.0);
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    ( 491703.8, 3608093.6,       7.3,       7.3,       0.0);
( 491707.5, 3608079.8,       7.2,       7.2,       0.0);
    ( 491713.9, 3608070.6,       7.2,       7.2,       0.0);
( 491715.8, 3608058.6,       7.1,       7.1,       0.0);
    ( 491720.4, 3608046.6,       7.1,       7.1,       0.0);
( 491732.3, 3608014.4,       7.3,       7.3,       0.0);
    ( 491735.1, 3608002.4,       7.3,       7.3,       0.0);
( 491735.1, 3607991.3,       7.3,       7.3,       0.0);
    ( 491744.3, 3607980.3,       7.4,       7.4,       0.0);
( 491747.1, 3607967.3,       7.5,       7.5,       0.0);
    ( 491755.4, 3607954.4,       7.5,       7.5,       0.0);
( 491759.1, 3607939.7,       7.6,       7.6,       0.0);
    ( 491636.5, 3608156.3,       7.0,       7.0,       0.0);
( 491618.1, 3608148.9,       6.8,       6.8,       0.0);
    ( 491598.7, 3608143.4,       6.5,       6.5,       0.0);
( 491579.4, 3608134.2,       6.1,       6.1,       0.0);
    ( 491565.5, 3608132.3,       6.0,       6.0,       0.0);
( 491548.9, 3608123.1,       5.6,       5.6,       0.0);
    ( 491654.0, 3608119.4,       6.9,       6.9,       0.0);
( 491663.2, 3608133.2,       7.2,       7.2,       0.0);
    ( 491657.7, 3608106.5,       6.8,       6.8,       0.0);
( 491663.2, 3608094.5,       6.8,       6.8,       0.0);
    ( 491674.3, 3608094.5,       6.9,       6.9,       0.0);
( 491681.6, 3608086.2,       6.9,       6.9,       0.0);
    ( 491686.3, 3608072.4,       6.8,       6.8,       0.0);
( 491663.2, 3608078.9,       6.6,       6.6,       0.0);
    ( 491671.5, 3608072.4,       6.6,       6.6,       0.0);
( 491676.1, 3608058.6,       6.6,       6.6,       0.0);
    ( 491678.9, 3608048.4,       6.6,       6.6,       0.0);
( 491690.9, 3608054.0,       6.7,       6.7,       0.0);
    ( 491695.5, 3608035.5,       6.8,       6.8,       0.0);
( 491701.9, 3608024.5,       6.9,       6.9,       0.0);
    ( 491624.5, 3608121.3,       6.6,       6.6,       0.0);
( 491615.3, 3608116.6,       6.4,       6.4,       0.0);
    ( 491603.3, 3608113.0,       6.2,       6.2,       0.0);
( 491590.4, 3608107.4,       6.0,       6.0,       0.0);
    ( 491582.1, 3608104.7,       5.9,       5.9,       0.0);
( 491567.4, 3608101.9,       5.6,       5.6,       0.0);
    ( 491553.5, 3608094.5,       5.4,       5.4,       0.0);
( 491560.0, 3608079.8,       5.3,       5.3,       0.0);
    ( 491572.0, 3608083.5,       5.5,       5.5,       0.0);
( 491585.8, 3608088.1,       5.7,       5.7,       0.0);
    ( 491599.6, 3608094.5,       6.0,       6.0,       0.0);
( 491614.4, 3608097.3,       6.2,       6.2,       0.0);
    ( 491626.4, 3608102.8,       6.4,       6.4,       0.0);
( 491631.0, 3608077.9,       6.2,       6.2,       0.0);
    ( 491613.5, 3608071.5,       5.9,       5.9,       0.0);
( 491635.6, 3608062.3,       6.1,       6.1,       0.0);
    ( 491647.6, 3608065.0,       6.3,       6.3,       0.0);
( 491568.3, 3608046.6,       5.2,       5.2,       0.0);
    ( 491556.3, 3608038.3,       5.0,       5.0,       0.0);
( 491572.9, 3608032.8,       5.2,       5.2,       0.0);
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     ( 491594.1, 3608048.4,       5.5,       5.5,       0.0);
( 491589.5, 3608035.5,       5.4,       5.4,       0.0);
     ( 491608.8, 3608039.2,       5.7,       5.7,       0.0);
( 491612.5, 3608025.4,       5.7,       5.7,       0.0);
     ( 491625.4, 3608040.2,       5.9,       5.9,       0.0);
( 491636.5, 3608029.1,       6.0,       6.0,       0.0);
     ( 491654.0, 3608027.3,       6.3,       6.3,       0.0);
( 491643.9, 3608011.6,       6.1,       6.1,       0.0);
     ( 491667.8, 3608015.3,       6.4,       6.4,       0.0);
( 491689.0, 3607995.0,       6.7,       6.7,       0.0);
     ( 491681.6, 3607976.6,       6.6,       6.6,       0.0);
( 491704.7, 3607986.7,       6.9,       6.9,       0.0);
     ( 491713.9, 3607972.0,       7.0,       7.0,       0.0);
( 491725.9, 3607958.1,       7.2,       7.2,       0.0);
     ( 491711.1, 3607949.8,       7.0,       7.0,       0.0);
( 491729.6, 3607943.4,       7.2,       7.2,       0.0);
     ( 491714.8, 3607935.1,       7.0,       7.0,       0.0);
( 491725.0, 3607923.1,       7.2,       7.2,       0.0);
     ( 491737.9, 3607928.6,       7.3,       7.3,       0.0);
( 491735.1, 3607910.2,       7.3,       7.3,       0.0);
     ( 491558.2, 3608010.7,       5.0,       5.0,       0.0);
( 491579.4, 3607998.7,       5.3,       5.3,       0.0);
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                                                  *** DISCRETE CARTESIAN
RECEPTORS ***
                                                (X-COORD, Y-COORD, ZELEV,
ZHILL, ZFLAG)
                                                                (METERS)

     ( 491596.0, 3608003.3,       5.5,       5.5,       0.0);
( 491613.5, 3607995.9,       5.7,       5.7,       0.0);
     ( 491599.6, 3607983.9,       5.6,       5.6,       0.0);
( 491623.6, 3607979.3,       5.9,       5.9,       0.0);
     ( 491640.2, 3607983.0,       6.1,       6.1,       0.0);
( 491660.5, 3607968.3,       6.3,       6.3,       0.0);
     ( 491659.5, 3607951.7,       6.2,       6.2,       0.0);
( 491677.0, 3607950.8,       6.5,       6.5,       0.0);
     ( 491682.6, 3607937.9,       6.5,       6.5,       0.0);
( 491670.6, 3607928.6,       6.3,       6.3,       0.0);
     ( 491694.6, 3607921.3,       6.7,       6.7,       0.0);
( 491682.6, 3607913.9,       6.4,       6.4,       0.0);
     ( 491682.6, 3607901.9,       6.4,       6.4,       0.0);
( 491705.6, 3607902.8,       6.9,       6.9,       0.0);
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( 491561.6, 3607964.1, 5.1, 5.1, 0.0);
( 491578.1, 3607959.7, 5.2, 5.2, 0.0);
( 491573.4, 3607944.0, 5.0, 5.0, 0.0);
( 491600.8, 3607959.7, 5.5, 5.5, 0.0);
( 491591.4, 3607944.8, 5.2, 5.2, 0.0);
( 491604.0, 3607934.6, 5.3, 5.3, 0.0);
( 491615.7, 3607947.9, 5.6, 5.6, 0.0);
( 491636.1, 3607933.0, 5.7, 5.7, 0.0);
( 491625.1, 3607917.3, 5.4, 5.4, 0.0);
( 491644.7, 3607918.9, 5.7, 5.7, 0.0);
( 491642.4, 3607897.0, 5.5, 5.5, 0.0);
( 491658.0, 3607905.6, 5.9, 5.9, 0.0);
( 491665.1, 3607887.6, 5.9, 5.9, 0.0);
( 491647.1, 3607883.7, 5.5, 5.5, 0.0);
( 491564.8, 3607922.8, 4.7, 4.7, 0.0);
( 491587.5, 3607913.4, 4.9, 4.9, 0.0);
( 491573.4, 3607903.2, 4.6, 4.6, 0.0);
( 491607.1, 3607896.2, 4.9, 4.9, 0.0);
( 491604.0, 3607879.0, 4.7, 4.7, 0.0);
( 491622.0, 3607877.4, 4.9, 4.9, 0.0);
( 491892.2, 3607962.8, 9.3, 9.3, 0.0);
( 491944.0, 3607975.3, 10.1, 10.1, 0.0);
( 491586.8, 3608712.3, 6.7, 6.7, 0.0);
( 491579.1, 3608732.7, 6.5, 6.5, 0.0);
( 491579.1, 3608751.9, 6.4, 6.4, 0.0);
( 491563.8, 3608778.6, 6.1, 6.1, 0.0);
( 491558.7, 3608797.8, 6.0, 6.0, 0.0);
( 491546.0, 3608824.6, 5.9, 5.9, 0.0);
( 491543.4, 3608838.6, 5.8, 5.8, 0.0);
( 491534.5, 3608869.2, 5.7, 5.7, 0.0);
( 491635.3, 3608725.1, 7.8, 7.8, 0.0);
( 491665.9, 3608731.4, 8.2, 8.2, 0.0);
( 491654.4, 3608757.0, 7.8, 7.8, 0.0);
( 491627.6, 3608748.0, 7.4, 7.4, 0.0);
( 491621.2, 3608764.6, 7.1, 7.1, 0.0);
( 491651.8, 3608772.3, 7.6, 7.6, 0.0);
( 491635.3, 3608823.3, 7.0, 7.0, 0.0);
( 491608.5, 3608810.5, 6.7, 6.7, 0.0);
( 491603.4, 3608829.7, 6.6, 6.6, 0.0);
( 491627.6, 3608838.6, 6.9, 6.9, 0.0);
( 491622.5, 3608866.7, 6.8, 6.8, 0.0);
( 491590.6, 3608859.0, 6.4, 6.4, 0.0);
( 491586.8, 3608875.6, 6.4, 6.4, 0.0);
( 491617.4, 3608884.5, 6.8, 6.8, 0.0);
( 491708.0, 3608753.1, 8.9, 8.9, 0.0);
( 491702.9, 3608768.4, 8.8, 8.8, 0.0);
( 491696.5, 3608791.4, 8.6, 8.6, 0.0);
( 491688.8, 3608805.4, 8.4, 8.4, 0.0);
( 491683.7, 3608834.8, 8.3, 8.3, 0.0);
( 491674.8, 3608851.4, 8.0, 8.0, 0.0);
( 491669.7, 3608874.3, 7.9, 7.9, 0.0);
( 491667.1, 3608903.7, 7.8, 7.8, 0.0);

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     ( 491741.1, 3608758.2,       9.4,       9.4,       0.0);
( 491733.5, 3608772.3,       9.3,       9.3,       0.0);
     ( 491727.1, 3608797.8,       9.2,       9.2,       0.0);
( 491720.7, 3608809.3,       9.1,       9.1,       0.0);
     ( 491711.8, 3608833.5,       9.0,       9.0,       0.0);
( 491706.7, 3608855.2,       8.8,       8.8,       0.0);
     ( 491701.6, 3608871.8,       8.7,       8.7,       0.0);
( 491699.0, 3608899.8,       8.7,       8.7,       0.0);
     ( 491778.1, 3608771.0,       9.8,       9.8,       0.0);
( 491773.0, 3608791.4,       9.8,       9.8,       0.0);
     ( 491762.8, 3608811.8,       9.6,       9.6,       0.0);
( 491760.3, 3608828.4,       9.6,       9.6,       0.0);
     ( 491755.2, 3608851.4,       9.5,       9.5,       0.0);
( 491747.5, 3608869.2,       9.4,       9.4,       0.0);
     ( 491738.6, 3608884.5,       9.3,       9.3,       0.0);
( 491738.6, 3608902.4,       9.3,       9.3,       0.0);
     ( 491804.9, 3608781.2,      10.2,      10.2,       0.0);
( 491802.4, 3608806.7,      10.2,      10.2,       0.0);
     ( 491789.6, 3608822.0,      10.0,      10.0,       0.0);
( 491788.3, 3608839.9,      10.0,      10.0,       0.0);
     ( 491774.3, 3608853.9,       9.8,       9.8,       0.0);
( 491778.1, 3608875.6,       9.8,       9.8,       0.0);
     ( 491773.0, 3608892.2,       9.8,       9.8,       0.0);
( 491770.5, 3608916.4,       9.7,       9.7,       0.0);
```



```
                                                  *** DISCRETE CARTESIAN
RECEPTORS ***
                                                (X-COORD, Y-COORD, ZELEV,
ZHILL, ZFLAG)
                                                                (METERS)

     ( 491848.3, 3608793.9,      10.7,      10.7,       0.0);
( 491845.7, 3608815.6,      10.7,      10.7,       0.0);
     ( 491835.5, 3608834.8,      10.6,      10.6,       0.0);
( 491829.2, 3608859.0,      10.5,      10.5,       0.0);
     ( 491824.1, 3608874.3,      10.4,      10.4,       0.0);
( 491824.1, 3608890.9,      10.4,      10.4,       0.0);
     ( 491820.2, 3608904.9,      10.4,      10.4,       0.0);
( 491819.0, 3608924.1,      10.4,      10.4,       0.0);
     ( 491817.7, 3608940.6,      10.3,      10.3,       0.0);
( 491873.8, 3608822.0,      11.1,      11.1,       0.0);
     ( 491864.9, 3608842.4,      11.0,      11.0,       0.0);
( 491859.8, 3608864.1,      10.9,      10.9,       0.0);
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     ( 491856.0, 3608878.1,      10.8,      10.8,       0.0);
( 491849.6, 3608899.8,      10.8,      10.8,       0.0);
     ( 491857.2, 3608915.1,      10.9,      10.9,       0.0);
( 491870.0, 3608930.4,      11.0,      11.0,       0.0);
     ( 491890.4, 3608933.0,      11.3,      11.3,       0.0);
( 491915.9, 3608818.2,      11.6,      11.6,       0.0);
     ( 491914.6, 3608838.6,      11.6,      11.6,       0.0);
( 491904.4, 3608855.2,      11.5,      11.5,       0.0);
     ( 491903.1, 3608874.3,      11.4,      11.4,       0.0);
( 491895.5, 3608897.3,      11.3,      11.3,       0.0);
     ( 491915.9, 3608899.8,      11.6,      11.6,       0.0);
( 491936.3, 3608902.4,      11.9,      11.9,       0.0);
     ( 491952.9, 3608910.0,      12.1,      12.1,       0.0);
( 491966.9, 3608922.8,      12.2,      12.2,       0.0);
     ( 491923.5, 3608947.0,      11.7,      11.7,       0.0);
( 491945.2, 3608961.1,      12.0,      12.0,       0.0);
     ( 491737.3, 3608925.3,       9.3,       9.3,       0.0);

 *** AERMOD - VERSION  18081 ***   *** C:\Users\xli\Desktop\3426.0024
Moss Street\construction HRA\construc ***        01/02/19
 *** AERMET - VERSION  14134 ***   ***
***        12:24:57

PAGE  52
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                                                *** METEOROLOGICAL DAYS
SELECTED FOR PROCESSING ***
                                                                    (1=YES;
0=NO)

            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1
1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1
1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1
1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1
1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1
1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1
1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1
1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1
1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1

                NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL
ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.
```

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** AERMOD - VERSION 18081 *** *** C:\Users\xli\Desktop\3426.0024 Moss Street\construction HRA\construc *** 01/02/19
*** AERMET - VERSION 14134 *** ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: ..\722904\722904.SFC
Met Version: 14134
Profile file: ..\722904\722904.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 3178 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2009 Year: 2009

First 24 hours of scalar data

| YR | MO | DY | JDY | HR | H0 | U* | W* | DT/DZ | ZICNV | ZIMCH | M-O LEN | Z0 | BOWEN | ALBEDO | REF WS | WD | HT | REF TA | HT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 09 | 01 | 01 | 1 | 01 | -3.2 | 0.067 | -9.000 | -9.000 | -999. | 41. | 8.2 | 0.05 | 1.05 | 1.00 | 1.76 | 191. | 10.0 | 281.4 | 2.0 |
| 09 | 01 | 01 | 1 | 02 | -3.3 | 0.068 | -9.000 | -9.000 | -999. | 42. | 8.4 | 0.06 | 1.05 | 1.00 | 1.76 | 168. | 10.0 | 282.5 | 2.0 |
| 09 | 01 | 01 | 1 | 03 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.06 | 1.05 | 1.00 | 0.00 | 0. | 10.0 | 280.9 | 2.0 |
| 09 | 01 | 01 | 1 | 04 | -3.3 | 0.068 | -9.000 | -9.000 | -999. | 42. | 8.3 | 0.06 | 1.05 | 1.00 | 1.76 | 133. | 10.0 | 279.9 | 2.0 |
| 09 | 01 | 01 | 1 | 05 | -15.4 | 0.274 | -9.000 | -9.000 | -999. | 345. | 119.1 | 0.06 | 1.05 | 1.00 | 3.86 | 143. | 10.0 | 279.2 | 2.0 |
| 09 | 01 | 01 | 1 | 06 | -12.3 | 0.110 | -9.000 | -9.000 | -999. | 113. | 9.6 | 0.06 | 1.05 | 1.00 | 2.86 | 122. | 10.0 | 279.2 | 2.0 |
| 09 | 01 | 01 | 1 | 07 | -4.6 | 0.068 | -9.000 | -9.000 | -999. | 43. | 5.9 | 0.06 | 1.05 | 1.00 | 1.76 | 135. | 10.0 | 280.9 | 2.0 |
| 09 | 01 | 01 | 1 | 08 | -3.3 | 0.063 | -9.000 | -9.000 | -999. | 38. | 6.7 | 0.04 | 1.05 | 0.49 | 1.76 | 103. | 10.0 | 282.0 | 2.0 |

```
 09 01 01   1 09   35.2 -9.000 -9.000 -9.000   68. -999. -99999.0
0.06   1.05   0.29    0.00    0.   10.0  285.4    2.0
 09 01 01   1 10   85.4 -9.000 -9.000 -9.000  144. -999. -99999.0
0.06   1.05   0.23    0.00    0.   10.0  287.5    2.0
 09 01 01   1 11  119.2 -9.000 -9.000 -9.000  225. -999. -99999.0
0.06   1.05   0.21    0.00    0.   10.0  288.1    2.0
 09 01 01   1 12  135.4  0.193  1.071  0.009  323.  204.     -4.8
0.06   1.05   0.20    1.76  999.   10.0  289.2    2.0
 09 01 01   1 13  133.4 -9.000 -9.000 -9.000  428. -999. -99999.0
0.06   1.05   0.20    0.00    0.   10.0  290.9    2.0
 09 01 01   1 14  111.9  0.350  1.173  0.007  513.  496.    -33.9
0.12   1.05   0.21    3.36  289.   10.0  289.9    2.0
 09 01 01   1 15   72.9  0.340  1.069  0.007  595.  476.    -47.8
0.12   1.05   0.24    3.36  272.   10.0  288.8    2.0
 09 01 01   1 16   19.2  0.362  0.691  0.007  609.  522.   -219.2
0.12   1.05   0.33    3.86  264.   10.0  286.4    2.0
 09 01 01   1 17  -16.0  0.278 -9.000 -9.000 -999.  355.    118.8
0.12   1.05   0.60    3.36  251.   10.0  284.2    2.0
 09 01 01   1 18  -12.6  0.228 -9.000 -9.000 -999.  262.     83.7
0.12   1.05   1.00    2.86  287.   10.0  284.2    2.0
 09 01 01   1 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0
0.06   1.05   1.00    0.00    0.   10.0  283.8    2.0
 09 01 01   1 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0
0.06   1.05   1.00    0.00    0.   10.0  283.1    2.0
 09 01 01   1 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0
0.06   1.05   1.00    0.00    0.   10.0  282.5    2.0
 09 01 01   1 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0
0.06   1.05   1.00    0.00    0.   10.0  282.5    2.0
 09 01 01   1 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0
0.06   1.05   1.00    0.00    0.   10.0  282.5    2.0
 09 01 01   1 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0
0.06   1.05   1.00    0.00    0.   10.0  282.5    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 09 01 01 01   10.0 1  191.    1.76   281.5   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)

 *** AERMOD - VERSION  18081 ***   *** C:\Users\xli\Desktop\3426.0024
Moss Street\construction HRA\construc ***        01/02/19
 *** AERMET - VERSION  14134 ***   ***
***        12:24:57

PAGE  54
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                    *** THE ANNUAL AVERAGE CONCENTRATION    VALUES
AVERAGED OVER   5 YEARS FOR SOURCE GROUP: AREA     ***
                                   INCLUDING SOURCE(S):
PAREA1      ,
```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|---|---|---|---|---|---|
| 491856.94 | 3608423.76 | 631633.59176 | 491770.82 | 3608296.56 | 83768.45212 |
| 491786.69 | 3608300.40 | 169029.11963 | 491777.07 | 3608270.58 | 37629.84601 |
| 491794.39 | 3608275.87 | 71537.09153 | 491789.88 | 3608254.44 | 30952.91267 |
| 491793.88 | 3608239.79 | 22440.86907 | 491796.54 | 3608225.81 | 16889.37505 |
| 491799.20 | 3608213.16 | 13520.08898 | 491804.53 | 3608198.51 | 11109.97723 |
| 491835.16 | 3608317.03 | 396533.58882 | 491837.82 | 3608303.71 | 271820.14175 |
| 491843.81 | 3608287.73 | 172647.90466 | 491851.14 | 3608274.41 | 123009.12030 |
| 491863.07 | 3608247.22 | 66875.79104 | 491867.68 | 3608231.55 | 48552.36905 |
| 491875.05 | 3608218.65 | 39141.41920 | 491878.74 | 3608195.61 | 25762.88386 |
| 491885.19 | 3608177.18 | 19590.41940 | 491807.78 | 3608183.63 | 8991.73281 |
| 491812.39 | 3608167.97 | 7461.70142 | 491819.76 | 3608146.77 | 6015.00085 |
| 491840.03 | 3608155.06 | 8586.85941 | 491868.60 | 3608170.73 | 15061.64567 |
| 491865.26 | 3608414.36 | 589528.95131 | 491867.52 | 3608403.04 | 603276.50207 |
| 491872.05 | 3608392.29 | 591456.40738 | 491874.88 | 3608377.58 | 597304.65851 |
| 491886.76 | 3608431.91 | 388718.88859 | 491890.73 | 3608422.29 | 390103.98925 |
| 491896.39 | 3608409.84 | 385911.68771 | 491900.35 | 3608397.38 | 386378.60601 |
| 491903.74 | 3608384.93 | 384883.24246 | 491912.80 | 3608444.92 | 257671.82210 |
| 491917.89 | 3608432.47 | 263360.57122 | 491921.29 | 3608418.89 | 272794.73259 |
| 491926.95 | 3608408.14 | 268804.53080 | 491930.91 | 3608396.25 | 268530.53841 |
| 491950.72 | 3608425.12 | 194646.63092 | 491954.11 | 3608416.06 | 196618.63073 |

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         491959.21    3608404.74   195737.54488
491984.11    3608467.56   110109.85267
         491987.50    3608453.98   118307.14770
491993.16    3608442.66   121481.48340
         491998.26    3608432.47   123421.61863
492002.22    3608421.15   126246.52006
         492012.41    3608475.49    83621.49564
492015.24    3608463.60    89538.12932
         492020.90    3608451.15    93343.85437
492024.29    3608441.53    96373.73261
         492028.25    3608428.51   100102.75588
492037.31    3608486.24    64997.07485
         492042.40    3608472.09    70003.93619
492046.36    3608461.34    73396.40947
         492050.89    3608450.58    76111.04301
492055.42    3608440.40    78120.56521
         492065.61    3608493.60    51730.61634
492069.00    3608481.15    55673.63012
         492075.23    3608469.26    58198.33458
492078.06    3608457.38    61580.37877
         492082.59    3608446.62    63614.62687
491873.18    3608334.56   510026.43933
         491929.78    3608349.84   275582.96143
491879.97    3608317.02   336657.72046
         491893.22    3608305.33   244539.09438
491889.89    3608289.35   180966.32932
         491907.21    3608277.37   138377.95979
491909.87    3608246.74    79154.74331
         491914.53    3608232.76    62103.64315
491920.52    3608219.44    50060.99609
         491923.85    3608203.46    38703.05250
491922.52    3608187.48    29639.67512
         491933.84    3608176.16    26152.75972
491936.50    3608332.63   234523.57316
         491945.82    3608306.66   173169.86338
491948.49    3608292.02   145064.06973
         491954.48    3608266.71   103224.58351
491965.80    3608249.40    80108.96105
         491959.81    3608230.76    62686.59318
491973.12    3608219.44    53627.38352
```



```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                    *** THE ANNUAL AVERAGE CONCENTRATION    VALUES
AVERAGED OVER   5 YEARS FOR SOURCE GROUP: AREA     ***
```

INCLUDING SOURCE(S):
PAREA1 ,

*** DISCRETE CARTESIAN
RECEPTOR POINTS ***

** CONC OF DPM IN
MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|---|---|---|---|---|---|
| 491965.13 | 3608198.80 | 40196.10183 | 491987.11 | 3608190.14 | 36888.98902 |
| 491975.79 | 3608366.59 | 178873.49839 | 491980.45 | 3608353.27 | 169371.47635 |
| 491988.44 | 3608337.29 | 152041.20741 | 491991.77 | 3608319.32 | 136973.15222 |
| 492001.09 | 3608294.68 | 110325.69047 | 492006.41 | 3608282.03 | 97363.99563 |
| 492013.07 | 3608266.05 | 82663.15720 | 492013.07 | 3608251.40 | 72289.32148 |
| 492028.39 | 3608241.41 | 62887.85268 | 492019.07 | 3608222.77 | 53476.99655 |
| 492045.70 | 3608210.78 | 45452.49661 | 492031.05 | 3608385.23 | 112727.50057 |
| 492035.71 | 3608369.92 | 110781.35203 | 492027.06 | 3608353.27 | 117475.21497 |
| 492046.36 | 3608339.96 | 100944.50205 | 492040.37 | 3608324.64 | 101087.03584 |
| 492057.02 | 3608313.32 | 87983.27103 | 492055.69 | 3608297.34 | 82983.20924 |
| 492059.02 | 3608282.03 | 75410.62761 | 492069.67 | 3608270.04 | 67070.83152 |
| 492061.68 | 3608253.40 | 62148.13063 | 492078.32 | 3608241.41 | 53934.29894 |
| 492079.66 | 3608226.76 | 48297.83936 | 492069.51 | 3608395.30 | 84466.80709 |
| 492076.17 | 3608375.99 | 83704.79149 | 492085.49 | 3608364.01 | 79670.90896 |
| 492102.14 | 3608406.62 | 66659.39687 | 492129.44 | 3608410.61 | 56135.98193 |
| 492095.48 | 3608352.69 | 75074.61459 | 492094.15 | 3608336.04 | 74769.00478 |
| 492135.43 | 3608348.69 | 59822.02770 | 492101.47 | 3608312.74 | 68685.98252 |
| 492120.78 | 3608244.15 | 47515.56367 | 492106.80 | 3608297.42 | 63920.32042 |
| 492168.06 | 3608256.14 | 42321.71042 | 491832.47 | 3608106.99 | 4180.27461 |

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         491853.78    3608116.31     5792.22388
491874.42    3608123.64     7782.89246
         491899.72    3608128.96    10460.46231
491836.47    3608093.01     3710.77936
         491877.09    3608106.33     6350.14878
491905.05    3608118.98     9510.66100
         491907.71    3608101.66     7734.16153
491883.74    3608091.01     5569.59303
         491848.45    3608065.04     3079.74148
491853.12    3608053.06     2845.00857
         491873.09    3608063.05     3716.66742
491909.71    3608072.37     5512.02895
         491921.03    3608059.05     5157.77157
491925.69    3608040.41     4365.67123
         491856.44    3608031.75     2391.11038
491867.10    3608010.44     2147.01462
         491875.09    3607976.49     1718.34971
491918.37    3607991.80     2607.50294
         491945.00    3608000.46     3347.42556
491935.09    3608141.53    15811.72963
         491960.90    3608152.59    20885.93528
491988.54    3608164.57    26680.53337
         491946.15    3608114.81    11726.33360
491988.54    3608129.55    17191.33706
         492018.04    3608107.44    14609.94337
491955.37    3608089.00     8955.75981
         491963.66    3608059.51     6685.43509
491984.86    3608059.51     7477.34499
         492031.86    3608066.89     9871.96109
492020.80    3608040.16     7216.79234
         491977.49    3608027.26     5172.79373
491983.94    3608007.90     4445.64427
         492044.76    3608018.04     6426.81543
492048.45    3608001.45     5605.04851
         491999.60    3607989.47     4066.56556
492038.31    3608171.95    30870.00280
         492047.53    3608155.36    26046.82328
492086.23    3608187.61    34800.01113
         492095.45    3608171.03    29921.10786
492053.98    3608123.10    18782.21306
         492109.27    3608145.22    23826.16581
492058.59    3608100.06    14968.14869
```



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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN
```

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: AREA ***
INCLUDING SOURCE(S):
PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|---|---|---|---|---|---|
| 492123.10 | 3608113.89 | 18276.37331 | 492135.08 | 3608094.53 | 15629.64783 |
| 492076.10 | 3608065.04 | 11034.36032 | 492085.31 | 3608030.02 | 8189.43118 |
| 492139.69 | 3608065.96 | 12391.12724 | 492139.69 | 3608212.50 | 37320.35401 |
| 492183.92 | 3608227.24 | 35481.27135 | 492143.37 | 3608192.22 | 32542.94347 |
| 492194.98 | 3608204.20 | 30785.83068 | 492203.28 | 3608183.01 | 27032.74153 |
| 492151.67 | 3608153.52 | 24592.58173 | 492197.75 | 3608162.73 | 24382.24963 |
| 492159.04 | 3608135.08 | 21371.48879 | 492164.57 | 3608118.49 | 18861.03342 |
| 492219.86 | 3608141.53 | 20767.73595 | 492223.55 | 3608114.81 | 17605.82478 |
| 492231.84 | 3608098.22 | 15772.55758 | 492170.10 | 3608097.30 | 16098.24566 |
| 492180.24 | 3608077.94 | 13955.35376 | 492183.92 | 3608055.83 | 11864.67278 |
| 492218.94 | 3608068.73 | 13103.09219 | 492246.59 | 3608230.01 | 29459.61125 |
| 492239.22 | 3608207.89 | 27744.96499 | 492241.98 | 3608194.07 | 25986.19077 |
| 492246.59 | 3608176.56 | 23745.69812 | 492257.65 | 3608163.65 | 21811.33647 |
| 492261.34 | 3608145.22 | 19794.15036 | 492266.87 | 3608124.02 | 17592.10804 |
| 492272.39 | 3608108.36 | 16065.59041 | 492277.92 | 3608094.53 | 14809.70621 |
| 492285.30 | 3608081.63 | 13701.00363 | 491685.34 | 3608168.26 | 1905.17550 |
| 491689.95 | 3608145.22 | 1616.14261 | 491694.56 | 3608131.40 | 1490.70102 |
| 491698.24 | 3608118.49 | 1381.51988 | 491701.01 | 3608105.59 | 1277.01571 |

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         491703.77    3608093.61     1191.86472
491707.46    3608079.79     1107.71380
         491713.91    3608070.57     1083.94065
491715.75    3608058.59     1012.41747
         491720.36    3608046.61      964.20218
491732.34    3608014.36      849.87505
         491735.11    3608002.37      804.64468
491735.11    3607991.32      754.55705
         491744.32    3607980.26      748.06203
491747.09    3607967.35      707.05832
         491755.38    3607954.45      690.71910
491759.07    3607939.71      651.23376
         491636.50    3608156.28     1317.55011
491618.06    3608148.91     1155.56399
         491598.71    3608143.38     1035.22776
491579.36    3608134.16      915.03025
         491565.53    3608132.32      865.75646
491548.94    3608123.10      781.22765
         491654.01    3608119.42     1093.05063
491663.22    3608133.24     1261.55124
         491657.69    3608106.51     1016.55434
491663.22    3608094.53      961.66580
         491674.28    3608094.53     1013.91396
491681.65    3608086.24      996.05117
         491686.26    3608072.42      932.10878
491663.22    3608078.87      868.71747
         491671.52    3608072.42      865.98489
491676.12    3608058.59      812.08348
         491678.89    3608048.45      773.86256
491690.87    3608053.98      850.17689
         491695.48    3608035.55      779.20615
491701.93    3608024.49      755.88226
         491624.52    3608121.26      982.59795
491615.30    3608116.65      923.03046
         491603.32    3608112.97      867.25904
491590.42    3608107.44      806.51646
         491582.12    3608104.67      774.91834
491567.38    3608101.91      732.68088
         491553.55    3608094.53      678.74608
491560.00    3608079.79      637.30235
         491571.98    3608083.47      669.15600
491585.81    3608088.08      711.15424
         491599.63    3608094.53      766.78998
491614.38    3608097.30      814.84300
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN
```

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: AREA ***
INCLUDING SOURCE(S):
PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|---|---|---|---|---|---|
| 491626.36 | 3608102.83 | 877.45895 | 491630.97 | 3608077.94 | 763.46400 |
| 491613.46 | 3608071.49 | 696.20751 | 491635.57 | 3608062.28 | 706.00578 |
| 491647.56 | 3608065.04 | 748.59786 | 491568.30 | 3608046.61 | 544.90445 |
| 491556.32 | 3608038.32 | 510.16707 | 491572.91 | 3608032.79 | 512.18472 |
| 491594.10 | 3608048.45 | 581.94028 | 491589.49 | 3608035.55 | 537.61888 |
| 491608.85 | 3608039.24 | 573.67335 | 491612.53 | 3608025.41 | 537.63520 |
| 491625.44 | 3608040.16 | 603.03153 | 491636.50 | 3608029.10 | 586.77690 |
| 491654.01 | 3608027.26 | 616.81819 | 491643.87 | 3608011.59 | 547.07422 |
| 491667.83 | 3608015.28 | 609.90493 | 491689.03 | 3607995.00 | 601.27188 |
| 491681.65 | 3607976.57 | 528.80566 | 491704.69 | 3607986.71 | 621.67149 |
| 491713.91 | 3607971.96 | 603.37593 | 491725.89 | 3607958.14 | 598.23444 |
| 491711.15 | 3607949.84 | 531.94139 | 491729.58 | 3607943.39 | 565.80717 |
| 491714.83 | 3607935.10 | 504.23390 | 491724.97 | 3607923.12 | 500.55027 |
| 491737.87 | 3607928.65 | 548.86938 | 491735.11 | 3607910.22 | 495.12574 |
| 491558.16 | 3608010.67 | 446.76664 | 491579.36 | 3607998.69 | 437.37975 |
| 491595.95 | 3608003.30 | 462.03995 | 491613.46 | 3607995.92 | 463.12885 |
| 491599.63 | 3607983.94 | 423.43448 | 491623.59 | 3607979.33 | 437.88119 |
| 491640.18 | 3607983.02 | 467.47351 | 491660.46 | 3607968.28 | 466.12239 |

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         491659.54    3607951.69      429.57667
491677.05    3607950.77      457.63343
         491682.58    3607937.86      441.04738
491670.60    3607928.65      403.26628
         491694.56    3607921.27      430.62047
491682.58    3607913.90      396.28580
         491682.58    3607901.92      376.39613
491705.62    3607902.84      416.61693
         491561.62    3607964.09      361.52381
491578.12    3607959.66      363.39121
         491573.42    3607943.99      336.42249
491600.84    3607959.66      378.65901
         491591.44    3607944.77      347.74317
491603.97    3607934.59      340.58815
         491615.72    3607947.91      370.81638
491636.09    3607933.02      366.04732
         491625.12    3607917.35      332.03167
491644.71    3607918.92      353.35695
         491642.36    3607896.99      320.10969
491658.03    3607905.60      348.86545
         491665.08    3607887.59      331.99941
491647.06    3607883.67      307.77096
         491564.80    3607922.84      303.48270
491587.52    3607913.44      301.75849
         491573.42    3607903.25      283.10730
491607.11    3607896.20      291.63159
         491603.97    3607878.97      270.49998
491621.99    3607877.40      279.96461
         491892.25    3607962.79     1729.53705
491943.96    3607975.32     2655.68093
         491586.79    3608712.31     8409.91149
491579.14    3608732.72     7291.76171
         491579.14    3608751.86     6533.01950
491563.83    3608778.64     5465.98803
         491558.73    3608797.78     4905.57279
491545.97    3608824.57     4212.34249
         491543.42    3608838.60     3929.01444
491534.49    3608869.21     3382.56676
         491635.26    3608725.07     8556.30300
491665.88    3608731.45     8360.83188
         491654.40    3608756.96     6906.22993
491627.61    3608748.03     7224.74672
         491621.23    3608764.61     6439.38955
491651.85    3608772.27     6214.64483

 *** AERMOD - VERSION  18081 ***   *** C:\Users\xli\Desktop\3426.0024
Moss Street\construction HRA\construc ***        01/02/19
 *** AERMET - VERSION  14134 ***   ***
***        12:24:57

PAGE  58
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN
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*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: AREA ***
INCLUDING SOURCE(S):
PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|---|---|---|---|---|---|
| 491635.26 | 3608823.29 | 4517.60807 | 491608.48 | 3608810.54 | 4835.62481 |
| 491603.37 | 3608829.67 | 4336.69451 | 491627.61 | 3608838.60 | 4143.13594 |
| 491622.51 | 3608866.66 | 3564.66602 | 491590.62 | 3608859.01 | 3701.20145 |
| 491586.79 | 3608875.59 | 3404.77827 | 491617.41 | 3608884.52 | 3257.20091 |
| 491707.97 | 3608753.13 | 7153.25801 | 491702.87 | 3608768.44 | 6396.43100 |
| 491696.49 | 3608791.40 | 5468.59705 | 491688.84 | 3608805.43 | 4998.74356 |
| 491683.74 | 3608834.77 | 4189.63762 | 491674.81 | 3608851.36 | 3820.01121 |
| 491669.71 | 3608874.32 | 3379.43532 | 491667.15 | 3608903.66 | 2914.71260 |
| 491741.14 | 3608758.23 | 6978.56924 | 491733.49 | 3608772.27 | 6281.67673 |
| 491727.11 | 3608797.78 | 5275.56965 | 491720.73 | 3608809.26 | 4893.44238 |
| 491711.80 | 3608833.50 | 4219.16689 | 491706.70 | 3608855.18 | 3729.43269 |
| 491701.60 | 3608871.77 | 3409.51209 | 491699.05 | 3608899.83 | 2955.05305 |
| 491778.13 | 3608770.99 | 6583.73997 | 491773.03 | 3608791.40 | 5700.18010 |
| 491762.83 | 3608811.81 | 4952.10555 | 491760.28 | 3608828.39 | 4468.73110 |
| 491755.17 | 3608851.36 | 3900.00547 | 491747.52 | 3608869.21 | 3518.43567 |
| 491738.59 | 3608884.52 | 3229.67762 | 491738.59 | 3608902.38 | 2954.26121 |
| 491804.92 | 3608781.20 | 6318.52159 | 491802.37 | 3608806.71 | 5337.54307 |
| 491789.61 | 3608822.02 | 4788.76329 | 491788.34 | 3608839.87 | 4305.57852 |

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         491774.31    3608853.91     3917.08370
491778.13    3608875.59     3499.89081
         491773.03    3608892.17     3197.35500
491770.48    3608916.41     2832.77258
         491848.29    3608793.95     5992.71087
491845.74    3608815.64     5237.45045
         491835.54    3608834.77     4650.58333
491829.16    3608859.01     4039.55505
         491824.06    3608874.32     3704.88695
491824.06    3608890.90     3400.78112
         491820.23    3608904.93     3159.29467
491818.95    3608924.07     2877.04023
         491817.68    3608940.65     2660.42732
491873.81    3608822.02     5086.34504
         491864.88    3608842.43     4525.64689
491859.77    3608864.11     4016.05242
         491855.95    3608878.14     3724.29971
491849.57    3608899.83     3323.74804
         491857.22    3608915.14     3103.21069
491869.98    3608930.44     2913.47447
         491890.39    3608932.99     2909.41727
491915.90    3608818.19     5123.01474
         491914.63    3608838.60     4596.72161
491904.42    3608855.18     4234.93498
         491903.14    3608874.32     3846.14771
491895.49    3608897.28     3438.65333
         491915.90    3608899.83     3397.17383
491936.31    3608902.38     3337.66685
         491952.89    3608910.03     3198.84616
491966.93    3608922.79     3001.95003
         491923.55    3608947.03     2752.86059
491945.24    3608961.06     2590.66041
         491737.31    3608925.34     2646.50014

 *** AERMOD - VERSION  18081 ***   *** C:\Users\xli\Desktop\3426.0024
Moss Street\construction HRA\construc ***        01/02/19
 *** AERMET - VERSION  14134 ***   ***
***        12:24:57

PAGE  59
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                    *** THE ANNUAL AVERAGE CONCENTRATION    VALUES
AVERAGED OVER   5 YEARS FOR SOURCE GROUP: LINE     ***
                                   INCLUDING SOURCE(S):
L0000001    , L0000002    , L0000003    , L0000004    , L0000005    ,
                L0000006    , L0000007    , L0000008    ,
L0000009    , L0000010    , L0000011    , L0000012    , L0000013    ,
                L0000014    , L0000015    , L0000016    ,
L0000017    , L0000018    , L0000019    , L0000020    , L0000021    ,
                L0000022    , L0000023    , L0000024    ,
L0000025    , L0000026    , L0000027    , L0000028    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|---|---|---|---|---|---|
| 491856.94 | 3608423.76 | 2.71215 | 491770.82 | 3608296.56 | 40.63129 |
| 491786.69 | 3608300.40 | 37.16311 | 491777.07 | 3608270.58 | 18.63654 |
| 491794.39 | 3608275.87 | 18.30192 | 491789.88 | 3608254.44 | 11.83867 |
| 491793.88 | 3608239.79 | 8.50172 | 491796.54 | 3608225.81 | 6.29229 |
| 491799.20 | 3608213.16 | 4.82803 | 491804.53 | 3608198.51 | 3.60052 |
| 491835.16 | 3608317.03 | 17.47807 | 491837.82 | 3608303.71 | 16.36569 |
| 491843.81 | 3608287.73 | 13.10984 | 491851.14 | 3608274.41 | 10.45869 |
| 491863.07 | 3608247.22 | 6.89013 | 491867.68 | 3608231.55 | 5.50992 |
| 491875.05 | 3608218.65 | 4.51933 | 491878.74 | 3608195.61 | 3.29514 |
| 491885.19 | 3608177.18 | 2.54421 | 491807.78 | 3608183.63 | 2.70752 |
| 491812.39 | 3608167.97 | 2.04387 | 491819.76 | 3608146.77 | 1.44327 |
| 491840.03 | 3608155.06 | 1.76573 | 491868.60 | 3608170.73 | 2.33746 |
| 491865.26 | 3608414.36 | 2.83789 | 491867.52 | 3608403.04 | 3.15933 |
| 491872.05 | 3608392.29 | 3.45016 | 491874.88 | 3608377.58 | 4.03201 |
| 491886.76 | 3608431.91 | 2.05662 | 491890.73 | 3608422.29 | 2.21408 |
| 491896.39 | 3608409.84 | 2.42670 | 491900.35 | 3608397.38 | 2.69290 |
| 491903.74 | 3608384.93 | 3.01035 | 491912.80 | 3608444.92 | 1.56146 |
| 491917.89 | 3608432.47 | 1.71251 | 491921.29 | 3608418.89 | 1.91468 |
| 491926.95 | 3608408.14 | 2.05708 | 491930.91 | 3608396.25 | 2.25717 |
| 491950.72 | 3608425.12 | 1.54420 | 491954.11 | 3608416.06 | 1.64752 |

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         491959.21    3608404.74        1.77690
491984.11    3608467.56        0.91756
         491987.50    3608453.98        1.01343
491993.16    3608442.66        1.08708
         491998.26    3608432.47        1.15656
492002.22    3608421.15        1.24684
         492012.41    3608475.49        0.77086
492015.24    3608463.60        0.83799
         492020.90    3608451.15        0.90443
492024.29    3608441.53        0.96222
         492028.25    3608428.51        1.04776
492037.31    3608486.24        0.64922
         492042.40    3608472.09        0.70953
492046.36    3608461.34        0.75843
         492050.89    3608450.58        0.80837
492055.42    3608440.40        0.85687
         492065.61    3608493.60        0.56015
492069.00    3608481.15        0.60579
         492075.23    3608469.26        0.64600
492078.06    3608457.38        0.69626
         492082.59    3608446.62        0.73928
491873.18    3608334.56        7.44433
         491929.78    3608349.84        3.59829
491879.97    3608317.02        7.99283
         491893.22    3608305.33        7.09578
491889.89    3608289.35        7.41382
         491907.21    3608277.37        6.01035
491909.87    3608246.74        4.98056
         491914.53    3608232.76        4.32670
491920.52    3608219.44        3.72852
         491923.85    3608203.46        3.15801
491922.52    3608187.48        2.68938
         491933.84    3608176.16        2.31799
491936.50    3608332.63        3.92068
         491945.82    3608306.66        4.13765
491948.49    3608292.02        4.17470
         491954.48    3608266.71        3.92112
491965.80    3608249.40        3.44176
         491959.81    3608230.76        3.27610
491973.12    3608219.44        2.85414
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                    *** THE ANNUAL AVERAGE CONCENTRATION    VALUES
AVERAGED OVER   5 YEARS FOR SOURCE GROUP: LINE     ***
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INCLUDING SOURCE(S):

L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 ,
L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 ,
L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 ,
L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|---|---|---|---|---|---|
| 491965.13 | 3608198.80 | 2.57399 | 491987.11 | 3608190.14 | 2.21423 |
| 491975.79 | 3608366.59 | 2.25235 | 491980.45 | 3608353.27 | 2.42270 |
| 491988.44 | 3608337.29 | 2.55377 | 491991.77 | 3608319.32 | 2.73973 |
| 492001.09 | 3608294.68 | 2.77387 | 492006.41 | 3608282.03 | 2.72184 |
| 492013.07 | 3608266.05 | 2.61058 | 492013.07 | 3608251.40 | 2.56586 |
| 492028.39 | 3608241.41 | 2.30116 | 492019.07 | 3608222.77 | 2.28757 |
| 492045.70 | 3608210.78 | 1.92083 | 492031.05 | 3608385.23 | 1.43445 |
| 492035.71 | 3608369.92 | 1.55699 | 492027.06 | 3608353.27 | 1.81736 |
| 492046.36 | 3608339.96 | 1.75203 | 492040.37 | 3608324.64 | 1.94963 |
| 492057.02 | 3608313.32 | 1.84423 | 492055.69 | 3608297.34 | 1.94539 |
| 492059.02 | 3608282.03 | 1.96082 | 492069.67 | 3608270.04 | 1.86581 |
| 492061.68 | 3608253.40 | 1.94735 | 492078.32 | 3608241.41 | 1.76457 |
| 492079.66 | 3608226.76 | 1.71233 | 492069.51 | 3608395.30 | 1.11315 |
| 492076.17 | 3608375.99 | 1.22143 | 492085.49 | 3608364.01 | 1.25216 |
| 492102.14 | 3608406.62 | 0.89809 | 492129.44 | 3608410.61 | 0.78540 |
| 492095.48 | 3608352.69 | 1.26584 | 492094.15 | 3608336.04 | 1.37757 |

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         492135.43    3608348.69        1.06697
492101.47    3608312.74        1.44695
         492120.78    3608244.15        1.43698
492106.80    3608297.42        1.46755
         492168.06    3608256.14        1.15696
491832.47    3608106.99        0.82048
         491853.78    3608116.31        1.01929
491874.42    3608123.64        1.19844
         491899.72    3608128.96        1.34443
491836.47    3608093.01        0.68642
         491877.09    3608106.33        0.95334
491905.05    3608118.98        1.19114
         491907.71    3608101.66        0.96262
491883.74    3608091.01        0.79462
         491848.45    3608065.04        0.50327
491853.12    3608053.06        0.44410
         491873.09    3608063.05        0.54139
491909.71    3608072.37        0.67690
         491921.03    3608059.05        0.59639
491925.69    3608040.41        0.49036
         491856.44    3608031.75        0.35189
491867.10    3608010.44        0.29200
         491875.09    3607976.49        0.21562
491918.37    3607991.80        0.28963
         491945.00    3608000.46        0.34252
491935.09    3608141.53        1.58326
         491960.90    3608152.59        1.72935
491988.54    3608164.57        1.81216
         491946.15    3608114.81        1.17209
491988.54    3608129.55        1.33436
         492018.04    3608107.44        1.06121
491955.37    3608089.00        0.88806
         491963.66    3608059.51        0.65486
491984.86    3608059.51        0.67462
         492031.86    3608066.89        0.74218
492020.80    3608040.16        0.58284
         491977.49    3608027.26        0.48467
491983.94    3608007.90        0.40747
         492044.76    3608018.04        0.49104
492048.45    3608001.45        0.42857
         491999.60    3607989.47        0.35545
492038.31    3608171.95        1.63629
         492047.53    3608155.36        1.43556
492086.23    3608187.61        1.48031
         492095.45    3608171.03        1.33609
492053.98    3608123.10        1.13753
         492109.27    3608145.22        1.13313
492058.59    3608100.06        0.95426
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE ANNUAL AVERAGE CONCENTRATION VALUES
AVERAGED OVER 5 YEARS FOR SOURCE GROUP: LINE ***
INCLUDING SOURCE(S):
L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 ,
L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 ,
L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 ,
L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN
RECEPTOR POINTS ***

** CONC OF DPM IN
MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|---|---|---|---|---|---|
| 492123.10 | 3608113.89 | 0.92760 | 492135.08 | 3608094.53 | 0.81189 |
| 492076.10 | 3608065.04 | 0.72072 | 492085.31 | 3608030.02 | 0.55127 |
| 492139.69 | 3608065.96 | 0.68060 | 492139.69 | 3608212.50 | 1.27558 |
| 492183.92 | 3608227.24 | 1.08028 | 492143.37 | 3608192.22 | 1.20370 |
| 492194.98 | 3608204.20 | 1.01145 | 492203.28 | 3608183.01 | 0.94695 |
| 492151.67 | 3608153.52 | 1.03352 | 492197.75 | 3608162.73 | 0.91938 |
| 492159.04 | 3608135.08 | 0.93915 | 492164.57 | 3608118.49 | 0.86053 |
| 492219.86 | 3608141.53 | 0.80792 | 492223.55 | 3608114.81 | 0.73113 |
| 492231.84 | 3608098.22 | 0.67306 | 492170.10 | 3608097.30 | 0.76825 |
| 492180.24 | 3608077.94 | 0.68315 | 492183.92 | 3608055.83 | 0.60414 |
| 492218.94 | 3608068.73 | 0.60903 | 492246.59 | 3608230.01 | 0.84615 |
| 492239.22 | 3608207.89 | 0.86205 | 492241.98 | 3608194.07 | 0.84196 |

492246.59 3608176.56 0.80800
492257.65 3608163.65 0.76159
492261.34 3608145.22 0.72336
492266.87 3608124.02 0.67343
492272.39 3608108.36 0.63341
492277.92 3608094.53 0.59758
492285.30 3608081.63 0.56237
491685.34 3608168.26 0.95379
491689.95 3608145.22 0.68053
491694.56 3608131.40 0.57313
491698.24 3608118.49 0.49193
491701.01 3608105.59 0.42458
491703.77 3608093.61 0.37342
491707.46 3608079.79 0.32522
491713.91 3608070.57 0.30182
491715.75 3608058.59 0.26913
491720.36 3608046.61 0.24322
491732.34 3608014.36 0.18861
491735.11 3608002.37 0.17194
491735.11 3607991.32 0.15735
491744.32 3607980.26 0.14774
491747.09 3607967.35 0.13494
491755.38 3607954.45 0.12526
491759.07 3607939.71 0.11385
491636.50 3608156.28 0.61405
491618.06 3608148.91 0.50736
491598.71 3608143.38 0.42946
491579.36 3608134.16 0.35221
491565.53 3608132.32 0.32156
491548.94 3608123.10 0.27180
491654.01 3608119.42 0.41940
491663.22 3608133.24 0.51410
491657.69 3608106.51 0.36746
491663.22 3608094.53 0.32912
491674.28 3608094.53 0.34110
491681.65 3608086.24 0.31991
491686.26 3608072.42 0.28186
491663.22 3608078.87 0.28068
491671.52 3608072.42 0.27000
491676.12 3608058.59 0.23991
491678.89 3608048.45 0.22037
491690.87 3608053.98 0.23929
491695.48 3608035.55 0.20522
491701.93 3608024.49 0.18973
491624.52 3608121.26 0.38106
491615.30 3608116.65 0.34920
491603.32 3608112.97 0.31999
491590.42 3608107.44 0.28739
491582.12 3608104.67 0.27053
491567.38 3608101.91 0.24793
491553.55 3608094.53 0.21986
491560.00 3608079.79 0.20076

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         491571.98    3608083.47        0.21644
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         491599.63    3608094.53        0.26452
491614.38    3608097.30        0.28675

 *** AERMOD - VERSION  18081 ***   *** C:\Users\xli\Desktop\3426.0024
Moss Street\construction HRA\construc ***        01/02/19
 *** AERMET - VERSION  14134 ***   ***
***        12:24:57

PAGE  62
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   *** THE ANNUAL AVERAGE CONCENTRATION    VALUES
AVERAGED OVER   5 YEARS FOR SOURCE GROUP: LINE     ***
                                  INCLUDING SOURCE(S):
L0000001    , L0000002    , L0000003    , L0000004    , L0000005    ,
                L0000006    , L0000007    , L0000008    ,
L0000009    , L0000010    , L0000011    , L0000012    , L0000013    ,
                L0000014    , L0000015    , L0000016    ,
L0000017    , L0000018    , L0000019    , L0000020    , L0000021    ,
                L0000022    , L0000023    , L0000024    ,
L0000025    , L0000026    , L0000027    , L0000028    ,  . . .      ,

                                              *** DISCRETE CARTESIAN
RECEPTOR POINTS ***

                                        ** CONC OF DPM      IN
MICROGRAMS/M**3                          **

       X-COORD (M)   Y-COORD (M)        CONC                      X-
COORD (M)   Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         491626.36    3608102.83        0.31637
491630.97    3608077.94        0.25250
         491613.46    3608071.49        0.22558
491635.57    3608062.28        0.22214
         491647.56    3608065.04        0.23548
491568.30    3608046.61        0.16037
         491556.32    3608038.32        0.14559
491572.91    3608032.79        0.14698
         491594.10    3608048.45        0.17577
491589.49    3608035.55        0.15714
         491608.85    3608039.24        0.17041
491612.53    3608025.41        0.15465
         491625.44    3608040.16        0.17932
491636.50    3608029.10        0.16872
         491654.01    3608027.26        0.17328
491643.87    3608011.59        0.14986
         491667.83    3608015.28        0.16255
491689.03    3607995.00        0.14560
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491681.65 3607976.57 0.12538
491704.69 3607986.71 0.14150
491713.91 3607971.96 0.12953
491725.89 3607958.14 0.12042
491711.15 3607949.84 0.11043
491729.58 3607943.39 0.10966
491714.83 3607935.10 0.10089
491724.97 3607923.12 0.09521
491737.87 3607928.65 0.10112
491735.11 3607910.22 0.08948
491558.16 3608010.67 0.12114
491579.36 3607998.69 0.11796
491595.95 3608003.30 0.12660
491613.46 3607995.92 0.12513
491599.63 3607983.94 0.11194
491623.59 3607979.33 0.11409
491640.18 3607983.02 0.12094
491660.46 3607968.28 0.11369
491659.54 3607951.69 0.10173
491677.05 3607950.77 0.10432
491682.58 3607937.86 0.09695
491670.60 3607928.65 0.08970
491694.56 3607921.27 0.08923
491682.58 3607913.90 0.08368
491682.58 3607901.92 0.07800
491705.62 3607902.84 0.08134
491561.62 3607964.09 0.09104
491578.12 3607959.66 0.09175
491573.42 3607943.99 0.08283
491600.84 3607959.66 0.09601
491591.44 3607944.77 0.08613
491603.97 3607934.59 0.08299
491615.72 3607947.91 0.09183
491636.09 3607933.02 0.08695
491625.12 3607917.35 0.07785
491644.71 3607918.92 0.08111
491642.36 3607896.99 0.07132
491658.03 3607905.60 0.07669
491665.08 3607887.59 0.07005
491647.06 3607883.67 0.06677
491564.80 3607922.84 0.07232
491587.52 3607913.44 0.07149
491573.42 3607903.25 0.06604
491607.11 3607896.20 0.06721
491603.97 3607878.97 0.06106
491621.99 3607877.40 0.06223
491892.25 3607962.79 0.20211
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491586.79 3608712.31 0.25537
491579.14 3608732.72 0.22345
491579.14 3608751.86 0.19896
491563.83 3608778.64 0.17032

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         491635.26    3608725.07        0.23968
491665.88    3608731.45        0.23355
         491654.40    3608756.96        0.19926
491627.61    3608748.03        0.20756
         491621.23    3608764.61        0.18774
491651.85    3608772.27        0.18240

 *** AERMOD - VERSION  18081 ***   *** C:\Users\xli\Desktop\3426.0024
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 *** AERMET - VERSION  14134 ***   ***
***        12:24:57

PAGE  63
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   *** THE ANNUAL AVERAGE CONCENTRATION    VALUES
AVERAGED OVER   5 YEARS FOR SOURCE GROUP: LINE     ***
                                  INCLUDING SOURCE(S):
L0000001    , L0000002    , L0000003    , L0000004    , L0000005    ,
                L0000006    , L0000007    , L0000008    ,
L0000009    , L0000010    , L0000011    , L0000012    , L0000013    ,
                L0000014    , L0000015    , L0000016    ,
L0000017    , L0000018    , L0000019    , L0000020    , L0000021    ,
                L0000022    , L0000023    , L0000024    ,
L0000025    , L0000026    , L0000027    , L0000028    ,  . . .      ,

                                              *** DISCRETE CARTESIAN
RECEPTOR POINTS ***

                                         ** CONC OF DPM      IN
MICROGRAMS/M**3                           **

       X-COORD (M)   Y-COORD (M)        CONC                       X-
COORD (M)   Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         491635.26    3608823.29        0.13801
491608.48    3608810.54        0.14544
         491603.37    3608829.67        0.13187
491627.61    3608838.60        0.12751
         491622.51    3608866.66        0.11155
491590.62    3608859.01        0.11431
         491586.79    3608875.59        0.10597
491617.41    3608884.52        0.10280
         491707.97    3608753.13        0.20753
491702.87    3608768.44        0.18982
         491696.49    3608791.40        0.16695
491688.84    3608805.43        0.15457
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491741.14 3608758.23 0.20192
491733.49 3608772.27 0.18683
491727.11 3608797.78 0.16283
491720.73 3608809.26 0.15316
491711.80 3608833.50 0.13521
491706.70 3608855.18 0.12169
491701.60 3608871.77 0.11253
491699.05 3608899.83 0.09935
491778.13 3608770.99 0.18625
491773.03 3608791.40 0.16812
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491747.52 3608869.21 0.11604
491738.59 3608884.52 0.10809
491738.59 3608902.38 0.10010
491804.92 3608781.20 0.17405
491802.37 3608806.71 0.15414
491789.61 3608822.02 0.14421
491788.34 3608839.87 0.13287
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491778.13 3608875.59 0.11350
491773.03 3608892.17 0.10568
491770.48 3608916.41 0.09553
491848.29 3608793.95 0.15787
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491835.54 3608834.77 0.13316
491829.16 3608859.01 0.12055
491824.06 3608874.32 0.11337
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491817.68 3608940.65 0.08740
491873.81 3608822.02 0.13605
491864.88 3608842.43 0.12605
491859.77 3608864.11 0.11590
491855.95 3608878.14 0.10990
491849.57 3608899.83 0.10134
491857.22 3608915.14 0.09528
491869.98 3608930.44 0.08953
491890.39 3608932.99 0.08770
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491914.63 3608838.60 0.12148
491904.42 3608855.18 0.11528
491903.14 3608874.32 0.10735
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491936.31 3608902.38 0.09379

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         491952.89    3608910.03        0.08973
491966.93    3608922.79        0.08465
         491923.55    3608947.03        0.08160
491945.24    3608961.06        0.07653
         491737.31    3608925.34        0.09097

 *** AERMOD - VERSION  18081 ***   *** C:\Users\xli\Desktop\3426.0024
Moss Street\construction HRA\construc ***        01/02/19
 *** AERMET - VERSION  14134 ***   ***
***        12:24:57

PAGE  64
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   *** THE ANNUAL AVERAGE CONCENTRATION    VALUES
AVERAGED OVER   5 YEARS FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):
PAREA1      , L0000001    , L0000002    , L0000003    , L0000004    ,
                L0000005    , L0000006    , L0000007    ,
L0000008    , L0000009    , L0000010    , L0000011    , L0000012    ,
                L0000013    , L0000014    , L0000015    ,
L0000016    , L0000017    , L0000018    , L0000019    , L0000020    ,
                L0000021    , L0000022    , L0000023    ,
L0000024    , L0000025    , L0000026    , L0000027    ,  . . .      ,

                                             *** DISCRETE CARTESIAN
RECEPTOR POINTS ***

                                        ** CONC OF DPM      IN
MICROGRAMS/M**3                          **

       X-COORD (M)   Y-COORD (M)        CONC                       X-
COORD (M)   Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         491856.94    3608423.76   631636.30391
491770.82    3608296.56    83809.08342
         491786.69    3608300.40   169066.28275
491777.07    3608270.58    37648.48255
         491794.39    3608275.87    71555.39345
491789.88    3608254.44    30964.75134
         491793.88    3608239.79    22449.37079
491796.54    3608225.81    16895.66733
         491799.20    3608213.16    13524.91701
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         491835.16    3608317.03   396551.06689
491837.82    3608303.71   271836.50744
         491843.81    3608287.73   172661.01451
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         491863.07    3608247.22    66882.68117
491867.68    3608231.55    48557.87897
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491878.74 3608195.61 25766.17900
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491812.39 3608167.97 7463.74530
491819.76 3608146.77 6016.44412
491840.03 3608155.06 8588.62514
491868.60 3608170.73 15063.98313
491865.26 3608414.36 589531.78920
491867.52 3608403.04 603279.66140
491872.05 3608392.29 591459.85754
491874.88 3608377.58 597308.69052
491886.76 3608431.91 388720.94521
491890.73 3608422.29 390106.20333
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491900.35 3608397.38 386381.29891
491903.74 3608384.93 384886.25281
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491917.89 3608432.47 263362.28374
491921.29 3608418.89 272796.64727
491926.95 3608408.14 268806.58789
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491950.72 3608425.12 194648.17512
491954.11 3608416.06 196620.27825
491959.21 3608404.74 195739.32179
491984.11 3608467.56 110110.77023
491987.50 3608453.98 118308.16113
491993.16 3608442.66 121482.57048
491998.26 3608432.47 123422.77520
492002.22 3608421.15 126247.76691
492012.41 3608475.49 83622.26650
492015.24 3608463.60 89538.96732
492020.90 3608451.15 93344.75880
492024.29 3608441.53 96374.69483
492028.25 3608428.51 100103.80364
492037.31 3608486.24 64997.72406
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492046.36 3608461.34 73397.16789
492050.89 3608450.58 76111.85138
492055.42 3608440.40 78121.42208
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492069.00 3608481.15 55674.23591
492075.23 3608469.26 58198.98059
492078.06 3608457.38 61581.07503
492082.59 3608446.62 63615.36615
491873.18 3608334.56 510033.88366
491929.78 3608349.84 275586.55972
491879.97 3608317.02 336665.71329
491893.22 3608305.33 244546.19016
491889.89 3608289.35 180973.74314
491907.21 3608277.37 138383.97014
491909.87 3608246.74 79159.72387

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         491914.53    3608232.76    62107.96985
491920.52    3608219.44    50064.72461
         491923.85    3608203.46    38706.21050
491922.52    3608187.48    29642.36450
         491933.84    3608176.16    26155.07770
491936.50    3608332.63   234527.49384
         491945.82    3608306.66   173174.00103
491948.49    3608292.02   145068.24443
         491954.48    3608266.71   103228.50462
491965.80    3608249.40    80112.40281
         491959.81    3608230.76    62689.86928
491973.12    3608219.44    53630.23767
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   *** THE ANNUAL AVERAGE CONCENTRATION    VALUES
AVERAGED OVER   5 YEARS FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):
PAREA1      , L0000001    , L0000002    , L0000003    , L0000004    ,
                L0000005    , L0000006    , L0000007    ,
L0000008    , L0000009    , L0000010    , L0000011    , L0000012    ,
                L0000013    , L0000014    , L0000015    ,
L0000016    , L0000017    , L0000018    , L0000019    , L0000020    ,
                L0000021    , L0000022    , L0000023    ,
L0000024    , L0000025    , L0000026    , L0000027    ,  . . .      ,

                                              *** DISCRETE CARTESIAN
RECEPTOR POINTS ***

                                         ** CONC OF DPM      IN
MICROGRAMS/M**3                           **

       X-COORD (M)   Y-COORD (M)        CONC                      X-
COORD (M)   Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         491965.13    3608198.80    40198.67582
491987.11    3608190.14    36891.20325
         491975.79    3608366.59   178875.75074
491980.45    3608353.27   169373.89905
         491988.44    3608337.29   152043.76118
491991.77    3608319.32   136975.89195
         492001.09    3608294.68   110328.46434
492006.41    3608282.03    97366.71748
         492013.07    3608266.05    82665.76778
492013.07    3608251.40    72291.88734
```

492028.39 3608241.41 62890.15383
492019.07 3608222.77 53479.28412
492045.70 3608210.78 45454.41744
492031.05 3608385.23 112728.93502
492035.71 3608369.92 110782.90902
492027.06 3608353.27 117477.03234
492046.36 3608339.96 100946.25407
492040.37 3608324.64 101088.98547
492057.02 3608313.32 87985.11526
492055.69 3608297.34 82985.15462
492059.02 3608282.03 75412.58843
492069.67 3608270.04 67072.69733
492061.68 3608253.40 62150.07799
492078.32 3608241.41 53936.06351
492079.66 3608226.76 48299.55169
492069.51 3608395.30 84467.92024
492076.17 3608375.99 83706.01292
492085.49 3608364.01 79672.16112
492102.14 3608406.62 66660.29496
492129.44 3608410.61 56136.76734
492095.48 3608352.69 75075.88043
492094.15 3608336.04 74770.38235
492135.43 3608348.69 59823.09467
492101.47 3608312.74 68687.42947
492120.78 3608244.15 47517.00065
492106.80 3608297.42 63921.78797
492168.06 3608256.14 42322.86737
491832.47 3608106.99 4181.09509
491853.78 3608116.31 5793.24316
491874.42 3608123.64 7784.09090
491899.72 3608128.96 10461.80674
491836.47 3608093.01 3711.46578
491877.09 3608106.33 6351.10212
491905.05 3608118.98 9511.85214
491907.71 3608101.66 7735.12415
491883.74 3608091.01 5570.38765
491848.45 3608065.04 3080.24475
491853.12 3608053.06 2845.45267
491873.09 3608063.05 3717.20881
491909.71 3608072.37 5512.70585
491921.03 3608059.05 5158.36796
491925.69 3608040.41 4366.16159
491856.44 3608031.75 2391.46227
491867.10 3608010.44 2147.30661
491875.09 3607976.49 1718.56533
491918.37 3607991.80 2607.79257
491945.00 3608000.46 3347.76809
491935.09 3608141.53 15813.31289
491960.90 3608152.59 20887.66463
491988.54 3608164.57 26682.34554
491946.15 3608114.81 11727.50569
491988.54 3608129.55 17192.67142

492018.04  3608107.44  14611.00458
491955.37  3608089.00  8956.64786
491963.66  3608059.51  6686.08996
491984.86  3608059.51  7478.01962
492031.86  3608066.89  9872.70327
492020.80  3608040.16  7217.37518
491977.49  3608027.26  5173.27840
491983.94  3608007.90  4446.05175
492044.76  3608018.04  6427.30647
492048.45  3608001.45  5605.47708
491999.60  3607989.47  4066.92100
492038.31  3608171.95  30871.63909
492047.53  3608155.36  26048.25884
492086.23  3608187.61  34801.49144
492095.45  3608171.03  29922.44395
492053.98  3608123.10  18783.35060
492109.27  3608145.22  23827.29894
492058.59  3608100.06  14969.10295


*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S):
PAREA1 , L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M) Y-COORD (M) CONC X-COORD (M) Y-COORD (M) CONC
- - - -

492139.69 3608065.96 12391.80784
492139.69 3608212.50 37321.62958
492183.92 3608227.24 35482.35163
492143.37 3608192.22 32544.14717
492194.98 3608204.20 30786.84213
492203.28 3608183.01 27033.68849
492151.67 3608153.52 24593.61525
492197.75 3608162.73 24383.16901
492159.04 3608135.08 21372.42794
492164.57 3608118.49 18861.89395
492219.86 3608141.53 20768.54388
492223.55 3608114.81 17606.55592
492231.84 3608098.22 15773.23064
492170.10 3608097.30 16099.01391
492180.24 3608077.94 13956.03691
492183.92 3608055.83 11865.27692
492218.94 3608068.73 13103.70121
492246.59 3608230.01 29460.45740
492239.22 3608207.89 27745.82704
492241.98 3608194.07 25987.03274
492246.59 3608176.56 23746.50612
492257.65 3608163.65 21812.09806
492261.34 3608145.22 19794.87371
492266.87 3608124.02 17592.78148
492272.39 3608108.36 16066.22381
492277.92 3608094.53 14810.30379
492285.30 3608081.63 13701.56600
491685.34 3608168.26 1906.12929
491689.95 3608145.22 1616.82314
491694.56 3608131.40 1491.27415
491698.24 3608118.49 1382.01181
491701.01 3608105.59 1277.44029
491703.77 3608093.61 1192.23814
491707.46 3608079.79 1108.03902
491713.91 3608070.57 1084.24247
491715.75 3608058.59 1012.68660
491720.36 3608046.61 964.44540
491732.34 3608014.36 850.06367
491735.11 3608002.37 804.81662
491735.11 3607991.32 754.71439
491744.32 3607980.26 748.20978
491747.09 3607967.35 707.19326
491755.38 3607954.45 690.84436
491759.07 3607939.71 651.34761
491636.50 3608156.28 1318.16416
491618.06 3608148.91 1156.07135
491598.71 3608143.38 1035.65722
491579.36 3608134.16 915.38246
491565.53 3608132.32 866.07802
491548.94 3608123.10 781.49945
491654.01 3608119.42 1093.47003
491663.22 3608133.24 1262.06534

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         491657.69    3608106.51     1016.92180
491663.22    3608094.53      961.99492
         491674.28    3608094.53     1014.25506
491681.65    3608086.24      996.37108
         491686.26    3608072.42      932.39063
491663.22    3608078.87      868.99815
         491671.52    3608072.42      866.25488
491676.12    3608058.59      812.32339
         491678.89    3608048.45      774.08293
491690.87    3608053.98      850.41618
         491695.48    3608035.55      779.41138
491701.93    3608024.49      756.07198
         491624.52    3608121.26      982.97901
491615.30    3608116.65      923.37967
         491603.32    3608112.97      867.57903
491590.42    3608107.44      806.80385
         491582.12    3608104.67      775.18887
491567.38    3608101.91      732.92881
         491553.55    3608094.53      678.96594
491560.00    3608079.79      637.50310
         491571.98    3608083.47      669.37245
491585.81    3608088.08      711.39134
         491599.63    3608094.53      767.05450
491614.38    3608097.30      815.12975

 *** AERMOD - VERSION  18081 ***   *** C:\Users\xli\Desktop\3426.0024
Moss Street\construction HRA\construc ***        01/02/19
 *** AERMET - VERSION  14134 ***   ***
***        12:24:57

PAGE  67
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   *** THE ANNUAL AVERAGE CONCENTRATION    VALUES
AVERAGED OVER   5 YEARS FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):
PAREA1      , L0000001    , L0000002    , L0000003    , L0000004    ,
                L0000005    , L0000006    , L0000007    ,
L0000008    , L0000009    , L0000010    , L0000011    , L0000012    ,
                L0000013    , L0000014    , L0000015    ,
L0000016    , L0000017    , L0000018    , L0000019    , L0000020    ,
                L0000021    , L0000022    , L0000023    ,
L0000024    , L0000025    , L0000026    , L0000027    ,  . . .      ,

                                                *** DISCRETE CARTESIAN
RECEPTOR POINTS ***

                                          ** CONC OF DPM      IN
MICROGRAMS/M**3                            **

       X-COORD (M)   Y-COORD (M)        CONC                       X-
COORD (M)   Y-COORD (M)        CONC
```

- - - -

```
         491615.72    3607947.91      370.90821
491636.09    3607933.02      366.13426
         491625.12    3607917.35      332.10952
491644.71    3607918.92      353.43806
         491642.36    3607896.99      320.18101
491658.03    3607905.60      348.94215
         491665.08    3607887.59      332.06947
491647.06    3607883.67      307.83773
         491564.80    3607922.84      303.55502
491587.52    3607913.44      301.82998
         491573.42    3607903.25      283.17335
491607.11    3607896.20      291.69880
         491603.97    3607878.97      270.56103
491621.99    3607877.40      280.02684
         491892.25    3607962.79     1729.73916
491943.96    3607975.32     2655.94958
         491586.79    3608712.31     8410.16686
491579.14    3608732.72     7291.98516
         491579.14    3608751.86     6533.21845
491563.83    3608778.64     5466.15835
         491558.73    3608797.78     4905.72639
491545.97    3608824.57     4212.47646
         491543.42    3608838.60     3929.13960
491534.49    3608869.21     3382.67544
         491635.26    3608725.07     8556.54267
491665.88    3608731.45     8361.06543
         491654.40    3608756.96     6906.42919
491627.61    3608748.03     7224.95428
         491621.23    3608764.61     6439.57729
491651.85    3608772.27     6214.82723
```



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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                   *** THE ANNUAL AVERAGE CONCENTRATION    VALUES
AVERAGED OVER   5 YEARS FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):
PAREA1      , L0000001    , L0000002    , L0000003    , L0000004    ,
                L0000005    , L0000006    , L0000007    ,
L0000008    , L0000009    , L0000010    , L0000011    , L0000012    ,
                L0000013    , L0000014    , L0000015    ,
L0000016    , L0000017    , L0000018    , L0000019    , L0000020    ,
                L0000021    , L0000022    , L0000023    ,
L0000024    , L0000025    , L0000026    , L0000027    ,  . . .      ,

                                                 *** DISCRETE CARTESIAN
RECEPTOR POINTS ***
```

** CONC OF DPM IN MICROGRAMS/M**3 **

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|---|---|---|---|---|---|
| 491635.26 | 3608823.29 | 4517.74608 | 491608.48 | 3608810.54 | 4835.77024 |
| 491603.37 | 3608829.67 | 4336.82639 | 491627.61 | 3608838.60 | 4143.26345 |
| 491622.51 | 3608866.66 | 3564.77757 | 491590.62 | 3608859.01 | 3701.31576 |
| 491586.79 | 3608875.59 | 3404.88425 | 491617.41 | 3608884.52 | 3257.30371 |
| 491707.97 | 3608753.13 | 7153.46553 | 491702.87 | 3608768.44 | 6396.62082 |
| 491696.49 | 3608791.40 | 5468.76399 | 491688.84 | 3608805.43 | 4998.89813 |
| 491683.74 | 3608834.77 | 4189.77060 | 491674.81 | 3608851.36 | 3820.13358 |
| 491669.71 | 3608874.32 | 3379.54518 | 491667.15 | 3608903.66 | 2914.80916 |
| 491741.14 | 3608758.23 | 6978.77116 | 491733.49 | 3608772.27 | 6281.86356 |
| 491727.11 | 3608797.78 | 5275.73248 | 491720.73 | 3608809.26 | 4893.59553 |
| 491711.80 | 3608833.50 | 4219.30210 | 491706.70 | 3608855.18 | 3729.55438 |
| 491701.60 | 3608871.77 | 3409.62462 | 491699.05 | 3608899.83 | 2955.15240 |
| 491778.13 | 3608770.99 | 6583.92623 | 491773.03 | 3608791.40 | 5700.34822 |
| 491762.83 | 3608811.81 | 4952.25772 | 491760.28 | 3608828.39 | 4468.87155 |
| 491755.17 | 3608851.36 | 3900.13152 | 491747.52 | 3608869.21 | 3518.55170 |
| 491738.59 | 3608884.52 | 3229.78571 | 491738.59 | 3608902.38 | 2954.36131 |
| 491804.92 | 3608781.20 | 6318.69564 | 491802.37 | 3608806.71 | 5337.69721 |
| 491789.61 | 3608822.02 | 4788.90750 | 491788.34 | 3608839.87 | 4305.71138 |
| 491774.31 | 3608853.91 | 3917.20854 | 491778.13 | 3608875.59 | 3500.00431 |
| 491773.03 | 3608892.17 | 3197.46068 | 491770.48 | 3608916.41 | 2832.86811 |
| 491848.29 | 3608793.95 | 5992.86875 | 491845.74 | 3608815.64 | 5237.59406 |
| 491835.54 | 3608834.77 | 4650.71649 | 491829.16 | 3608859.01 | 4039.67560 |

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         491824.06    3608874.32     3705.00032
491824.06    3608890.90     3400.88710
         491820.23    3608904.93     3159.39497
491818.95    3608924.07     2877.13332
         491817.68    3608940.65     2660.51472
491873.81    3608822.02     5086.48110
         491864.88    3608842.43     4525.77294
491859.77    3608864.11     4016.16832
         491855.95    3608878.14     3724.40961
491849.57    3608899.83     3323.84939
         491857.22    3608915.14     3103.30598
491869.98    3608930.44     2913.56400
         491890.39    3608932.99     2909.50497
491915.90    3608818.19     5123.14622
         491914.63    3608838.60     4596.84309
491904.42    3608855.18     4235.05027
         491903.14    3608874.32     3846.25506
491895.49    3608897.28     3438.75262
         491915.90    3608899.83     3397.27044
491936.31    3608902.38     3337.76064
         491952.89    3608910.03     3198.93589
491966.93    3608922.79     3002.03468
         491923.55    3608947.03     2752.94219
491945.24    3608961.06     2590.73694
         491737.31    3608925.34     2646.59111

 *** AERMOD - VERSION  18081 ***   *** C:\Users\xli\Desktop\3426.0024
Moss Street\construction HRA\construc ***        01/02/19
 *** AERMET - VERSION  14134 ***   ***
***        12:24:57

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                                    *** THE SUMMARY OF MAXIMUM ANNUAL
RESULTS AVERAGED OVER   5 YEARS ***


                                     ** CONC OF DPM      IN
MICROGRAMS/M**3                          **


NETWORK
GROUP ID                       AVERAGE CONC               RECEPTOR
(XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -

AREA      1ST HIGHEST VALUE IS  631633.59176 AT (  491856.94,
3608423.76,     9.85,     9.85,    0.00)  DC
          2ND HIGHEST VALUE IS  603276.50207 AT (  491867.52,
3608403.04,     9.98,     9.98,    0.00)  DC
```

```
          3RD HIGHEST VALUE IS  597304.65851 AT (  491874.88,
3608377.58,    10.08,    10.08,    0.00)  DC
          4TH HIGHEST VALUE IS  591456.40738 AT (  491872.05,
3608392.29,    10.04,    10.04,    0.00)  DC
          5TH HIGHEST VALUE IS  589528.95131 AT (  491865.26,
3608414.36,     9.95,     9.95,    0.00)  DC
          6TH HIGHEST VALUE IS  510026.43933 AT (  491873.18,
3608334.56,    10.06,    10.06,    0.00)  DC
          7TH HIGHEST VALUE IS  396533.58882 AT (  491835.16,
3608317.03,     9.57,     9.57,    0.00)  DC
          8TH HIGHEST VALUE IS  390103.98925 AT (  491890.73,
3608422.29,    10.28,    10.28,    0.00)  DC
          9TH HIGHEST VALUE IS  388718.88859 AT (  491886.76,
3608431.91,    10.23,    10.23,    0.00)  DC
         10TH HIGHEST VALUE IS  386378.60601 AT (  491900.35,
3608397.38,    10.40,    10.40,    0.00)  DC

LINE      1ST HIGHEST VALUE IS      40.63129 AT (  491770.82,
3608296.56,     8.75,     8.75,    0.00)  DC
          2ND HIGHEST VALUE IS      37.16311 AT (  491786.69,
3608300.40,     8.95,     8.95,    0.00)  DC
          3RD HIGHEST VALUE IS      18.63654 AT (  491777.07,
3608270.58,     8.83,     8.83,    0.00)  DC
          4TH HIGHEST VALUE IS      18.30192 AT (  491794.39,
3608275.87,     9.05,     9.05,    0.00)  DC
          5TH HIGHEST VALUE IS      17.47807 AT (  491835.16,
3608317.03,     9.57,     9.57,    0.00)  DC
          6TH HIGHEST VALUE IS      16.36569 AT (  491837.82,
3608303.71,     9.60,     9.60,    0.00)  DC
          7TH HIGHEST VALUE IS      13.10984 AT (  491843.81,
3608287.73,     9.68,     9.68,    0.00)  DC
          8TH HIGHEST VALUE IS      11.83867 AT (  491789.88,
3608254.44,     8.99,     8.99,    0.00)  DC
          9TH HIGHEST VALUE IS      10.45869 AT (  491851.14,
3608274.41,     9.78,     9.78,    0.00)  DC
         10TH HIGHEST VALUE IS       8.50172 AT (  491793.88,
3608239.79,     9.04,     9.04,    0.00)  DC

ALL       1ST HIGHEST VALUE IS  631636.30391 AT (  491856.94,
3608423.76,     9.85,     9.85,    0.00)  DC
          2ND HIGHEST VALUE IS  603279.66140 AT (  491867.52,
3608403.04,     9.98,     9.98,    0.00)  DC
          3RD HIGHEST VALUE IS  597308.69052 AT (  491874.88,
3608377.58,    10.08,    10.08,    0.00)  DC
          4TH HIGHEST VALUE IS  591459.85754 AT (  491872.05,
3608392.29,    10.04,    10.04,    0.00)  DC
          5TH HIGHEST VALUE IS  589531.78920 AT (  491865.26,
3608414.36,     9.95,     9.95,    0.00)  DC
          6TH HIGHEST VALUE IS  510033.88366 AT (  491873.18,
3608334.56,    10.06,    10.06,    0.00)  DC
          7TH HIGHEST VALUE IS  396551.06689 AT (  491835.16,
3608317.03,     9.57,     9.57,    0.00)  DC
```

```
          8TH HIGHEST VALUE IS  390106.20333 AT (  491890.73,
3608422.29,    10.28,    10.28,    0.00)  DC
          9TH HIGHEST VALUE IS  388720.94521 AT (  491886.76,
3608431.91,    10.23,    10.23,    0.00)  DC
         10TH HIGHEST VALUE IS  386381.29891 AT (  491900.35,
3608397.38,    10.40,    10.40,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR

 *** AERMOD - VERSION  18081 ***   *** C:\Users\xli\Desktop\3426.0024
Moss Street\construction HRA\construc ***        01/02/19
 *** AERMET - VERSION  14134 ***   ***
***        12:24:57

PAGE  70
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            3 Warning Message(s)
 A Total of        16961 Informational Message(s)

 A Total of        43872 Hours Were Processed

 A Total of        13845 Calm Hours Identified

 A Total of         3116 Missing Hours Identified (  7.10 Percent)


    ******** FATAL ERROR MESSAGES ********
                ***  NONE  ***


    ********   WARNING MESSAGES   ********
 MX W430   33748        METQA: Ambient Temperature Data Out-of-Range.
KURDAT =       12110704
 MX W430   33749        METQA: Ambient Temperature Data Out-of-Range.
KURDAT =       12110705
 MX W481   43873         MAIN: Data Remaining After End of Year.
Number of Hours=           48

    ************************************
    *** AERMOD Finishes Successfully ***
    ************************************
```

## Total Carbon Offsets for the Lifetime of the Project

**Operational GHG Emissions**

**2021 Operations**

Moss Street - Unmitigated Construction and 2021 Operations - San Diego County, Annual
Date: 10/23/2019 11:43 AM

| Emissions Source | Emissions ($MT\ CO_2e$) |
|---|---|
| Area | 63 |
| Energy | 182 |
| Mobile | 1,241 |
| Waste | 33 |
| Water | 51 |
| Amortized Construction | 26 |
| *Total Project Emissions* [1] | 1,595 |
| *Existing Emissions* | 262 |
| *Annual Net Project Emissions* | 1,333 |
| Project Service Population | 475 |
| Service Person/Per Capita GHG Efficiency (MT CO2e/SP) | 2.81 |
| City's proposed efficiency thresholds-2020 (MT CO2e/SP) | 3.08 |
| **Exceed Threshold?** | **No** |

Note:

MT $CO_2e$ = metric tons of carbon dioxide equivalent

[1] Totals may not appear to add exactly due to rounding.

Source of emissions: CalEEMod Output (see Appendix A).

Source of thresholds: SDAQMD, 2013.

**2030 Operations**

Moss Street 2030 Operations - San Diego County, Annual
Date: 10/23/2019 12:26 PM

| Emissions Source | Emissions ($MT\ CO_2e$) |
|---|---|
| Area | 63 |
| Energy | 167 |
| Mobile | 961 |
| Waste | 33 |
| Water | 46 |
| Amortized Construction | 26 |
| *Total Project Emissions* [1] | 1,295 |
| *Existing Emissions* | 228 |
| *Annual Net Project Emissions* | 1,067 |
| Project Service Population | 475 |
| Service Person/Per Capita GHG Efficiency (MT CO2e/SP) | 2.25 |
| City's proposed efficiency thresholds (MT CO2e/SP) | 1.30 |
| **Exceed Threshold?** | **Yes** |

Note:

MT $CO_2e$ = metric tons of carbon dioxide equivalent

[1] Totals may not appear to add exactly due to rounding.

Source of emissions: CalEEMod Output (see Appendix A).

Source of thresholds: SDAQMD, 2013.

| | | |
|---|---|---|
| Operational years until 2030 | 9 | years |
| Carbon offsets before 2030 | 0 | MT CO2e |

| | | |
|---|---|---|
| Carbon offsets per year starting in 2030 | 450 | |
| Operational years after 2030 (assuming 30 year project life) | 21 | years |
| Carbon offsets after 2030 | 9,450 | MT CO2e |
| **Total project lifetime carbon offsets** | **9,450** | **MT CO2e** |

*Annual offsets as reported in IS GHG section:*

| | | |
|---|---|---|
| Carbon offsets per year starting in 2030 | 450 | MT CO2e/year |
| Operational years after 2030 (assuming 30 year project life) | 21 | years |
| Carbon offsets after 2030 | 9,450 | MT CO2e |
| **Total project lifetime carbon offsets** | **9,450** | **MT CO2e** |