

## Appendix A:

### Air Quality/Energy/Greenhouse Gas Emissions Data

# City of Fullerton - Raymond Avenue Detailed Report

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# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field                  | Value                                  |
|-----------------------------|----------------------------------------|
| Project Name                | City of Fullerton - Raymond Avenue     |
| Construction Start Date     | 5/1/2023                               |
| Operational Year            | 2024                                   |
| Lead Agency                 | —                                      |
| Land Use Scale              | Project/site                           |
| Analysis Level for Defaults | County                                 |
| Windspeed (m/s)             | 1.80                                   |
| Precipitation (days)        | 21.2                                   |
| Location                    | 33.85506854083009, -117.90481635186066 |
| County                      | Orange                                 |
| City                        | Fullerton                              |
| Air District                | South Coast AQMD                       |
| Air Basin                   | South Coast                            |
| TAZ                         | 6827                                   |
| EDFZ                        | 7                                      |
| Electric Utility            | Southern California Edison             |
| Gas Utility                 | Southern California Gas                |
| App Version                 | 2022.1.1.12                            |

## 1.2. Land Use Types

| Land Use Subtype | Size | Unit | Lot Acreage | Building Area (sq ft) | Landscape Area (sq ft) | Special Landscape Area (sq ft) | Population | Description |
|------------------|------|------|-------------|-----------------------|------------------------|--------------------------------|------------|-------------|
|------------------|------|------|-------------|-----------------------|------------------------|--------------------------------|------------|-------------|

|                                  |      |          |      |         |      |   |   |                                                 |
|----------------------------------|------|----------|------|---------|------|---|---|-------------------------------------------------|
| Unrefrigerated Warehouse-No Rail | 126  | 1000sqft | 2.90 | 126,419 | 0.50 | — | — | Landscaped area estimated to be 0.5 acres total |
| General Office Building          | 12.0 | 1000sqft | 0.28 | 12,000  | 0.00 | — | — | —                                               |

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

| Sector         | #       | Measure Title                                                                |
|----------------|---------|------------------------------------------------------------------------------|
| Construction   | C-10-A  | Water Exposed Surfaces                                                       |
| Construction   | C-10-C  | Water Unpaved Construction Roads                                             |
| Construction   | C-11    | Limit Vehicle Speeds on Unpaved Roads                                        |
| Transportation | T-14*   | Provide Electric Vehicle Charging Infrastructure                             |
| Transportation | T-32*   | Orient Project Toward Transit, Bicycle, or Pedestrian Facility               |
| Transportation | T-34*   | Provide Bike Parking                                                         |
| Energy         | E-1     | Buildings Exceed 2019 Title 24 Building Envelope Energy Efficiency Standards |
| Energy         | E-2     | Require Energy Efficient Appliances                                          |
| Energy         | E-7*    | Require Higher Efficacy Public Street and Area Lighting                      |
| Water          | W-4     | Require Low-Flow Water Fixtures                                              |
| Water          | W-5     | Design Water-Efficient Landscapes                                            |
| Waste          | S-1/S-2 | Implement Waste Reduction Plan                                               |

\* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

## 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Un/Mit. | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
|---------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|

|                     |      |      |      |      |         |      |      |      |      |      |      |   |        |        |      |      |      |        |
|---------------------|------|------|------|------|---------|------|------|------|------|------|------|---|--------|--------|------|------|------|--------|
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| Unmit.              | 4.28 | 57.4 | 37.3 | 28.8 | 0.08    | 1.30 | 11.3 | 12.6 | 1.20 | 1.98 | 3.18 | — | 11,430 | 11,430 | 0.81 | 1.26 | 17.0 | 11,843 |
| Mit.                | 4.28 | 57.4 | 37.3 | 28.8 | 0.08    | 1.30 | 11.3 | 12.6 | 1.20 | 1.98 | 3.18 | — | 11,430 | 11,430 | 0.81 | 1.26 | 17.0 | 11,843 |
| % Reduced           | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| Unmit.              | 1.81 | 1.50 | 12.9 | 16.8 | 0.03    | 0.56 | 0.94 | 1.50 | 0.51 | 0.23 | 0.74 | — | 3,890  | 3,890  | 0.17 | 0.15 | 0.14 | 3,939  |
| Mit.                | 1.81 | 1.50 | 12.9 | 16.8 | 0.03    | 0.56 | 0.94 | 1.50 | 0.51 | 0.23 | 0.74 | — | 3,890  | 3,890  | 0.17 | 0.15 | 0.14 | 3,939  |
| % Reduced           | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| Average Daily (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| Unmit.              | 1.22 | 4.10 | 9.75 | 9.83 | 0.02    | 0.39 | 1.68 | 2.06 | 0.35 | 0.31 | 0.67 | — | 2,760  | 2,760  | 0.16 | 0.20 | 1.63 | 2,826  |
| Mit.                | 1.22 | 4.10 | 9.75 | 9.83 | 0.02    | 0.39 | 1.68 | 2.06 | 0.35 | 0.31 | 0.67 | — | 2,760  | 2,760  | 0.16 | 0.20 | 1.63 | 2,826  |
| % Reduced           | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| Annual (Max)        | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| Unmit.              | 0.22 | 0.75 | 1.78 | 1.79 | < 0.005 | 0.07 | 0.31 | 0.38 | 0.06 | 0.06 | 0.12 | — | 457    | 457    | 0.03 | 0.03 | 0.27 | 468    |
| Mit.                | 0.22 | 0.75 | 1.78 | 1.79 | < 0.005 | 0.07 | 0.31 | 0.38 | 0.06 | 0.06 | 0.12 | — | 457    | 457    | 0.03 | 0.03 | 0.27 | 468    |
| % Reduced           | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |

## 2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Year | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
|------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|

|                      |      |      |      |      |         |      |      |      |      |      |      |   |        |        |      |      |      |        |
|----------------------|------|------|------|------|---------|------|------|------|------|------|------|---|--------|--------|------|------|------|--------|
| Daily - Summer (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| 2023                 | 4.28 | 3.06 | 37.3 | 28.8 | 0.08    | 1.30 | 11.3 | 12.6 | 1.20 | 1.98 | 3.18 | — | 11,430 | 11,430 | 0.81 | 1.26 | 17.0 | 11,843 |
| 2024                 | 2.73 | 57.4 | 19.2 | 27.0 | 0.04    | 0.83 | 1.20 | 2.03 | 0.76 | 0.29 | 1.05 | — | 5,526  | 5,526  | 0.21 | 0.17 | 6.26 | 5,587  |
| Daily - Winter (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| 2023                 | 1.81 | 1.50 | 12.9 | 16.8 | 0.03    | 0.56 | 0.94 | 1.50 | 0.51 | 0.23 | 0.74 | — | 3,890  | 3,890  | 0.17 | 0.15 | 0.14 | 3,939  |
| 2024                 | 1.74 | 1.43 | 12.3 | 16.5 | 0.03    | 0.51 | 0.94 | 1.45 | 0.46 | 0.23 | 0.69 | — | 3,867  | 3,867  | 0.15 | 0.15 | 0.13 | 3,915  |
| Average Daily        | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| 2023                 | 1.22 | 0.95 | 9.75 | 9.83 | 0.02    | 0.39 | 1.68 | 2.06 | 0.35 | 0.31 | 0.67 | — | 2,760  | 2,760  | 0.16 | 0.20 | 1.63 | 2,826  |
| 2024                 | 0.70 | 4.10 | 4.93 | 6.73 | 0.01    | 0.21 | 0.36 | 0.57 | 0.19 | 0.09 | 0.27 | — | 1,519  | 1,519  | 0.06 | 0.06 | 0.85 | 1,537  |
| Annual               | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| 2023                 | 0.22 | 0.17 | 1.78 | 1.79 | < 0.005 | 0.07 | 0.31 | 0.38 | 0.06 | 0.06 | 0.12 | — | 457    | 457    | 0.03 | 0.03 | 0.27 | 468    |
| 2024                 | 0.13 | 0.75 | 0.90 | 1.23 | < 0.005 | 0.04 | 0.07 | 0.10 | 0.03 | 0.02 | 0.05 | — | 251    | 251    | 0.01 | 0.01 | 0.14 | 255    |

## 2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Year                 | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O  | R    | CO2e   |
|----------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|------|--------|
| Daily - Summer (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| 2023                 | 4.28 | 3.06 | 37.3 | 28.8 | 0.08 | 1.30  | 11.3  | 12.6  | 1.20   | 1.98   | 3.18   | —    | 11,430 | 11,430 | 0.81 | 1.26 | 17.0 | 11,843 |
| 2024                 | 2.73 | 57.4 | 19.2 | 27.0 | 0.04 | 0.83  | 1.20  | 2.03  | 0.76   | 0.29   | 1.05   | —    | 5,526  | 5,526  | 0.21 | 0.17 | 6.26 | 5,587  |
| Daily - Winter (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| 2023                 | 1.81 | 1.50 | 12.9 | 16.8 | 0.03 | 0.56  | 0.94  | 1.50  | 0.51   | 0.23   | 0.74   | —    | 3,890  | 3,890  | 0.17 | 0.15 | 0.14 | 3,939  |

|               |      |      |      |      |         |      |      |      |      |      |      |   |       |       |      |      |      |       |
|---------------|------|------|------|------|---------|------|------|------|------|------|------|---|-------|-------|------|------|------|-------|
| 2024          | 1.74 | 1.43 | 12.3 | 16.5 | 0.03    | 0.51 | 0.94 | 1.45 | 0.46 | 0.23 | 0.69 | — | 3,867 | 3,867 | 0.15 | 0.15 | 0.13 | 3,915 |
| Average Daily | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —    | —    | —     |
| 2023          | 1.22 | 0.95 | 9.75 | 9.83 | 0.02    | 0.39 | 1.68 | 2.06 | 0.35 | 0.31 | 0.67 | — | 2,760 | 2,760 | 0.16 | 0.20 | 1.63 | 2,826 |
| 2024          | 0.70 | 4.10 | 4.93 | 6.73 | 0.01    | 0.21 | 0.36 | 0.57 | 0.19 | 0.09 | 0.27 | — | 1,519 | 1,519 | 0.06 | 0.06 | 0.85 | 1,537 |
| Annual        | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —    | —    | —     |
| 2023          | 0.22 | 0.17 | 1.78 | 1.79 | < 0.005 | 0.07 | 0.31 | 0.38 | 0.06 | 0.06 | 0.12 | — | 457   | 457   | 0.03 | 0.03 | 0.27 | 468   |
| 2024          | 0.13 | 0.75 | 0.90 | 1.23 | < 0.005 | 0.04 | 0.07 | 0.10 | 0.03 | 0.02 | 0.05 | — | 251   | 251   | 0.01 | 0.01 | 0.14 | 255   |

## 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Un/Mit.             | TOG  | ROG  | NOx    | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R    | CO2e  |
|---------------------|------|------|--------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|
| Daily, Summer (Max) | —    | —    | —      | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Unmit.              | 2.21 | 5.30 | 1.53   | 14.9 | 0.02 | 0.08  | 0.71  | 0.79  | 0.08   | 0.13   | 0.20   | 130  | 3,916 | 4,046 | 13.4 | 0.24 | 8.39 | 4,461 |
| Mit.                | 2.21 | 5.30 | 1.53   | 14.9 | 0.02 | 0.08  | 0.71  | 0.79  | 0.08   | 0.13   | 0.20   | 104  | 3,890 | 3,994 | 10.8 | 0.23 | 8.39 | 4,340 |
| % Reduced           | —    | —    | < 0.5% | —    | —    | —     | —     | —     | —      | —      | —      | 20%  | 1%    | 1%    | 20%  | 5%   | —    | 3%    |
| Daily, Winter (Max) | —    | —    | —      | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Unmit.              | 1.13 | 4.31 | 1.54   | 8.27 | 0.02 | 0.07  | 0.71  | 0.78  | 0.07   | 0.13   | 0.19   | 130  | 3,812 | 3,942 | 13.4 | 0.24 | 0.25 | 4,350 |
| Mit.                | 1.13 | 4.31 | 1.54   | 8.27 | 0.02 | 0.07  | 0.71  | 0.78  | 0.07   | 0.13   | 0.19   | 104  | 3,786 | 3,890 | 10.8 | 0.23 | 0.25 | 4,229 |
| % Reduced           | —    | —    | < 0.5% | —    | —    | —     | —     | —     | —      | —      | —      | 20%  | 1%    | 1%    | 20%  | 5%   | —    | 3%    |
| Average Daily (Max) | —    | —    | —      | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Unmit.              | 1.85 | 4.98 | 1.59   | 12.6 | 0.02 | 0.07  | 0.71  | 0.78  | 0.07   | 0.13   | 0.20   | 130  | 3,851 | 3,981 | 13.4 | 0.24 | 3.64 | 4,392 |

|              |        |        |        |        |         |        |      |        |        |      |        |      |       |       |      |      |      |       |
|--------------|--------|--------|--------|--------|---------|--------|------|--------|--------|------|--------|------|-------|-------|------|------|------|-------|
| Mit.         | 1.85   | 4.98   | 1.58   | 12.6   | 0.02    | 0.07   | 0.71 | 0.78   | 0.07   | 0.13 | 0.20   | 104  | 3,824 | 3,928 | 10.8 | 0.23 | 3.64 | 4,270 |
| % Reduced    | —      | —      | < 0.5% | —      | —       | —      | —    | —      | —      | —    | —      | 20%  | 1%    | 1%    | 20%  | 5%   | —    | 3%    |
| Annual (Max) | —      | —      | —      | —      | —       | —      | —    | —      | —      | —    | —      | —    | —     | —     | —    | —    | —    | —     |
| Unmit.       | 0.34   | 0.91   | 0.29   | 2.30   | < 0.005 | 0.01   | 0.13 | 0.14   | 0.01   | 0.02 | 0.04   | 21.6 | 638   | 659   | 2.22 | 0.04 | 0.60 | 727   |
| Mit.         | 0.34   | 0.91   | 0.29   | 2.30   | < 0.005 | 0.01   | 0.13 | 0.14   | 0.01   | 0.02 | 0.04   | 17.2 | 633   | 650   | 1.79 | 0.04 | 0.60 | 707   |
| % Reduced    | < 0.5% | < 0.5% | < 0.5% | < 0.5% | < 0.5%  | < 0.5% | —    | < 0.5% | < 0.5% | —    | < 0.5% | 20%  | 1%    | 1%    | 20%  | 5%   | —    | 3%    |

## 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Sector              | TOG  | ROG  | NOx  | CO   | SO2     | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4     | N2O     | R    | CO2e  |
|---------------------|------|------|------|------|---------|-------|-------|-------|--------|--------|--------|------|-------|-------|---------|---------|------|-------|
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —       | —       | —    | —     |
| Mobile              | 1.06 | 0.96 | 0.74 | 8.23 | 0.02    | 0.01  | 0.71  | 0.72  | 0.01   | 0.13   | 0.14   | —    | 2,040 | 2,040 | 0.09    | 0.08    | 8.36 | 2,074 |
| Area                | 1.07 | 4.30 | 0.05 | 6.02 | < 0.005 | 0.01  | —     | 0.01  | 0.01   | —      | 0.01   | —    | 24.8  | 24.8  | < 0.005 | < 0.005 | —    | 24.8  |
| Energy              | 0.08 | 0.04 | 0.74 | 0.62 | < 0.005 | 0.06  | —     | 0.06  | 0.06   | —      | 0.06   | —    | 1,648 | 1,648 | 0.15    | 0.01    | —    | 1,655 |
| Water               | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | 60.1 | 204   | 264   | 6.18    | 0.15    | —    | 463   |
| Waste               | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | 70.1 | 0.00  | 70.1  | 7.00    | 0.00    | —    | 245   |
| Refrig.             | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —       | —       | 0.03 | 0.03  |
| Total               | 2.21 | 5.30 | 1.53 | 14.9 | 0.02    | 0.08  | 0.71  | 0.79  | 0.08   | 0.13   | 0.20   | 130  | 3,916 | 4,046 | 13.4    | 0.24    | 8.39 | 4,461 |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —       | —       | —    | —     |
| Mobile              | 1.05 | 0.95 | 0.81 | 7.65 | 0.02    | 0.01  | 0.71  | 0.72  | 0.01   | 0.13   | 0.14   | —    | 1,960 | 1,960 | 0.10    | 0.08    | 0.22 | 1,988 |
| Area                | —    | 3.31 | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —       | —       | —    | —     |
| Energy              | 0.08 | 0.04 | 0.74 | 0.62 | < 0.005 | 0.06  | —     | 0.06  | 0.06   | —      | 0.06   | —    | 1,648 | 1,648 | 0.15    | 0.01    | —    | 1,655 |
| Water               | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | 60.1 | 204   | 264   | 6.18    | 0.15    | —    | 463   |

|               |      |      |      |      |         |         |      |         |         |      |         |      |       |       |         |         |         |         |
|---------------|------|------|------|------|---------|---------|------|---------|---------|------|---------|------|-------|-------|---------|---------|---------|---------|
| Waste         | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | 70.1 | 0.00  | 70.1  | 7.00    | 0.00    | —       | 245     |
| Refrig.       | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —     | —     | —       | —       | 0.03    | 0.03    |
| Total         | 1.13 | 4.31 | 1.54 | 8.27 | 0.02    | 0.07    | 0.71 | 0.78    | 0.07    | 0.13 | 0.19    | 130  | 3,812 | 3,942 | 13.4    | 0.24    | 0.25    | 4,350   |
| Average Daily | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —     | —     | —       | —       | —       | —       |
| Mobile        | 1.04 | 0.95 | 0.81 | 7.84 | 0.02    | 0.01    | 0.71 | 0.72    | 0.01    | 0.13 | 0.14    | —    | 1,982 | 1,982 | 0.10    | 0.08    | 3.61    | 2,012   |
| Area          | 0.73 | 3.99 | 0.03 | 4.12 | < 0.005 | 0.01    | —    | 0.01    | 0.01    | —    | 0.01    | —    | 17.0  | 17.0  | < 0.005 | < 0.005 | —       | 17.0    |
| Energy        | 0.08 | 0.04 | 0.74 | 0.62 | < 0.005 | 0.06    | —    | 0.06    | 0.06    | —    | 0.06    | —    | 1,648 | 1,648 | 0.15    | 0.01    | —       | 1,655   |
| Water         | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | 60.1 | 204   | 264   | 6.18    | 0.15    | —       | 463     |
| Waste         | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | 70.1 | 0.00  | 70.1  | 7.00    | 0.00    | —       | 245     |
| Refrig.       | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —     | —     | —       | —       | 0.03    | 0.03    |
| Total         | 1.85 | 4.98 | 1.59 | 12.6 | 0.02    | 0.07    | 0.71 | 0.78    | 0.07    | 0.13 | 0.20    | 130  | 3,851 | 3,981 | 13.4    | 0.24    | 3.64    | 4,392   |
| Annual        | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —     | —     | —       | —       | —       | —       |
| Mobile        | 0.19 | 0.17 | 0.15 | 1.43 | < 0.005 | < 0.005 | 0.13 | 0.13    | < 0.005 | 0.02 | 0.03    | —    | 328   | 328   | 0.02    | 0.01    | 0.60    | 333     |
| Area          | 0.13 | 0.73 | 0.01 | 0.75 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | —    | 2.81  | 2.81  | < 0.005 | < 0.005 | —       | 2.82    |
| Energy        | 0.01 | 0.01 | 0.13 | 0.11 | < 0.005 | 0.01    | —    | 0.01    | 0.01    | —    | 0.01    | —    | 273   | 273   | 0.02    | < 0.005 | —       | 274     |
| Water         | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | 9.95 | 33.8  | 43.7  | 1.02    | 0.02    | —       | 76.6    |
| Waste         | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | 11.6 | 0.00  | 11.6  | 1.16    | 0.00    | —       | 40.6    |
| Refrig.       | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —     | —     | —       | —       | < 0.005 | < 0.005 |
| Total         | 0.34 | 0.91 | 0.29 | 2.30 | < 0.005 | 0.01    | 0.13 | 0.14    | 0.01    | 0.02 | 0.04    | 21.6 | 638   | 659   | 2.22    | 0.04    | 0.60    | 727     |

## 2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Sector              | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R    | CO2e  |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|
| Daily, Summer (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Mobile              | 1.06 | 0.96 | 0.74 | 8.23 | 0.02 | 0.01  | 0.71  | 0.72  | 0.01   | 0.13   | 0.14   | —    | 2,040 | 2,040 | 0.09 | 0.08 | 8.36 | 2,074 |

|                           |      |      |      |      |         |         |      |         |         |      |         |      |       |       |         |         |      |       |
|---------------------------|------|------|------|------|---------|---------|------|---------|---------|------|---------|------|-------|-------|---------|---------|------|-------|
| Area                      | 1.07 | 4.30 | 0.05 | 6.02 | < 0.005 | 0.01    | —    | 0.01    | 0.01    | —    | 0.01    | —    | 24.8  | 24.8  | < 0.005 | < 0.005 | —    | 24.8  |
| Energy                    | 0.08 | 0.04 | 0.74 | 0.62 | < 0.005 | 0.06    | —    | 0.06    | 0.06    | —    | 0.06    | —    | 1,639 | 1,639 | 0.15    | 0.01    | —    | 1,646 |
| Water                     | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | 55.0 | 187   | 242   | 5.66    | 0.14    | —    | 424   |
| Waste                     | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | 49.0 | 0.00  | 49.0  | 4.90    | 0.00    | —    | 172   |
| Refrig.                   | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —     | —     | —       | —       | 0.03 | 0.03  |
| Total                     | 2.21 | 5.30 | 1.53 | 14.9 | 0.02    | 0.08    | 0.71 | 0.79    | 0.08    | 0.13 | 0.20    | 104  | 3,890 | 3,994 | 10.8    | 0.23    | 8.39 | 4,340 |
| Daily,<br>Winter<br>(Max) | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —     | —     | —       | —       | —    | —     |
| Mobile                    | 1.05 | 0.95 | 0.81 | 7.65 | 0.02    | 0.01    | 0.71 | 0.72    | 0.01    | 0.13 | 0.14    | —    | 1,960 | 1,960 | 0.10    | 0.08    | 0.22 | 1,988 |
| Area                      | —    | 3.31 | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —     | —     | —       | —       | —    | —     |
| Energy                    | 0.08 | 0.04 | 0.74 | 0.62 | < 0.005 | 0.06    | —    | 0.06    | 0.06    | —    | 0.06    | —    | 1,639 | 1,639 | 0.15    | 0.01    | —    | 1,646 |
| Water                     | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | 55.0 | 187   | 242   | 5.66    | 0.14    | —    | 424   |
| Waste                     | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | 49.0 | 0.00  | 49.0  | 4.90    | 0.00    | —    | 172   |
| Refrig.                   | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —     | —     | —       | —       | 0.03 | 0.03  |
| Total                     | 1.13 | 4.31 | 1.54 | 8.27 | 0.02    | 0.07    | 0.71 | 0.78    | 0.07    | 0.13 | 0.19    | 104  | 3,786 | 3,890 | 10.8    | 0.23    | 0.25 | 4,229 |
| Average<br>Daily          | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —     | —     | —       | —       | —    | —     |
| Mobile                    | 1.04 | 0.95 | 0.81 | 7.84 | 0.02    | 0.01    | 0.71 | 0.72    | 0.01    | 0.13 | 0.14    | —    | 1,982 | 1,982 | 0.10    | 0.08    | 3.61 | 2,012 |
| Area                      | 0.73 | 3.99 | 0.03 | 4.12 | < 0.005 | 0.01    | —    | 0.01    | 0.01    | —    | 0.01    | —    | 17.0  | 17.0  | < 0.005 | < 0.005 | —    | 17.0  |
| Energy                    | 0.08 | 0.04 | 0.74 | 0.62 | < 0.005 | 0.06    | —    | 0.06    | 0.06    | —    | 0.06    | —    | 1,639 | 1,639 | 0.15    | 0.01    | —    | 1,646 |
| Water                     | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | 55.0 | 187   | 242   | 5.66    | 0.14    | —    | 424   |
| Waste                     | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | 49.0 | 0.00  | 49.0  | 4.90    | 0.00    | —    | 172   |
| Refrig.                   | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —     | —     | —       | —       | 0.03 | 0.03  |
| Total                     | 1.85 | 4.98 | 1.58 | 12.6 | 0.02    | 0.07    | 0.71 | 0.78    | 0.07    | 0.13 | 0.20    | 104  | 3,824 | 3,928 | 10.8    | 0.23    | 3.64 | 4,270 |
| Annual                    | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —     | —     | —       | —       | —    | —     |
| Mobile                    | 0.19 | 0.17 | 0.15 | 1.43 | < 0.005 | < 0.005 | 0.13 | 0.13    | < 0.005 | 0.02 | 0.03    | —    | 328   | 328   | 0.02    | 0.01    | 0.60 | 333   |
| Area                      | 0.13 | 0.73 | 0.01 | 0.75 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | —    | 2.81  | 2.81  | < 0.005 | < 0.005 | —    | 2.82  |
| Energy                    | 0.01 | 0.01 | 0.13 | 0.11 | < 0.005 | 0.01    | —    | 0.01    | 0.01    | —    | 0.01    | —    | 271   | 271   | 0.02    | < 0.005 | —    | 272   |

|         |      |      |      |      |         |      |      |      |      |      |      |      |      |      |      |      |         |         |
|---------|------|------|------|------|---------|------|------|------|------|------|------|------|------|------|------|------|---------|---------|
| Water   | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | 9.11 | 30.9 | 40.0 | 0.94 | 0.02 | —       | 70.1    |
| Waste   | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | 8.12 | 0.00 | 8.12 | 0.81 | 0.00 | —       | 28.4    |
| Refrig. | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | < 0.005 | < 0.005 |
| Total   | 0.34 | 0.91 | 0.29 | 2.30 | < 0.005 | 0.01 | 0.13 | 0.14 | 0.01 | 0.02 | 0.04 | 17.2 | 633  | 650  | 1.79 | 0.04 | 0.60    | 707     |

### 3. Construction Emissions Details

#### 3.1. Demolition (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location            | TOG  | ROG  | NOx  | CO   | SO2     | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O     | R    | CO2e  |
|---------------------|------|------|------|------|---------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|---------|------|-------|
| Onsite              | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 3.39 | 2.84 | 27.3 | 23.5 | 0.03    | 1.20  | —     | 1.20  | 1.10   | —      | 1.10   | —    | 3,425 | 3,425 | 0.14 | 0.03    | —    | 3,437 |
| Demolition          | —    | —    | —    | —    | —       | —     | 9.16  | 9.16  | —      | 1.39   | 1.39   | —    | —     | —     | —    | —       | —    | —     |
| Onsite truck        | 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 | 0.00  |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Average Daily       | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 0.42 | 0.35 | 3.37 | 2.90 | < 0.005 | 0.15  | —     | 0.15  | 0.14   | —      | 0.14   | —    | 422   | 422   | 0.02 | < 0.005 | —    | 424   |
| Demolition          | —    | —    | —    | —    | —       | —     | 1.13  | 1.13  | —      | 0.17   | 0.17   | —    | —     | —     | —    | —       | —    | —     |
| Onsite truck        | 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 | 0.00  |

|                     |         |         |         |      |         |         |         |         |         |         |         |   |       |       |         |         |      |       |
|---------------------|---------|---------|---------|------|---------|---------|---------|---------|---------|---------|---------|---|-------|-------|---------|---------|------|-------|
| Annual              | —       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.08    | 0.06    | 0.62    | 0.53 | < 0.005 | 0.03    | —       | 0.03    | 0.02    | —       | 0.02    | — | 69.9  | 69.9  | < 0.005 | < 0.005 | —    | 70.2  |
| Demolition          | —       | —       | —       | —    | —       | —       | 0.21    | 0.21    | —       | 0.03    | 0.03    | — | —     | —     | —       | —       | —    | —     |
| Onsite truck        | 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 | 0.00  |
| Offsite             | —       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max) | —       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.07    | 0.06    | 0.06    | 0.98 | 0.00    | 0.00    | 0.20    | 0.20    | 0.00    | 0.05    | 0.05    | — | 207   | 207   | 0.01    | 0.01    | 0.92 | 211   |
| Vendor              | 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 | 0.00  |
| Hauling             | 0.83    | 0.16    | 9.92    | 4.30 | 0.05    | 0.10    | 1.96    | 2.06    | 0.10    | 0.55    | 0.65    | — | 7,798 | 7,798 | 0.66    | 1.23    | 16.1 | 8,196 |
| Daily, Winter (Max) | —       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Average Daily       | —       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.01    | 0.01    | 0.01    | 0.11 | 0.00    | 0.00    | 0.02    | 0.02    | 0.00    | 0.01    | 0.01    | — | 24.7  | 24.7  | < 0.005 | < 0.005 | 0.05 | 25.0  |
| Vendor              | 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 | 0.00  |
| Hauling             | 0.10    | 0.02    | 1.28    | 0.53 | 0.01    | 0.01    | 0.24    | 0.25    | 0.01    | 0.07    | 0.08    | — | 961   | 961   | 0.08    | 0.15    | 0.86 | 1,009 |
| Annual              | —       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 4.08  | 4.08  | < 0.005 | < 0.005 | 0.01 | 4.14  |
| Vendor              | 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 | 0.00  |
| Hauling             | 0.02    | < 0.005 | 0.23    | 0.10 | < 0.005 | < 0.005 | 0.04    | 0.05    | < 0.005 | 0.01    | 0.01    | — | 159   | 159   | 0.01    | 0.03    | 0.14 | 167   |

### 3.2. Demolition (2023) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|----------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
|----------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|

|                     |      |      |      |      |         |      |      |      |      |      |      |   |       |       |         |         |      |       |
|---------------------|------|------|------|------|---------|------|------|------|------|------|------|---|-------|-------|---------|---------|------|-------|
| Onsite              | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 3.39 | 2.84 | 27.3 | 23.5 | 0.03    | 1.20 | —    | 1.20 | 1.10 | —    | 1.10 | — | 3,425 | 3,425 | 0.14    | 0.03    | —    | 3,437 |
| Demolition          | —    | —    | —    | —    | —       | —    | 9.16 | 9.16 | —    | 1.39 | 1.39 | — | —     | —     | —       | —       | —    | —     |
| Onsite truck        | 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 | 0.00  |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Average Daily       | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.42 | 0.35 | 3.37 | 2.90 | < 0.005 | 0.15 | —    | 0.15 | 0.14 | —    | 0.14 | — | 422   | 422   | 0.02    | < 0.005 | —    | 424   |
| Demolition          | —    | —    | —    | —    | —       | —    | 1.13 | 1.13 | —    | 0.17 | 0.17 | — | —     | —     | —       | —       | —    | —     |
| Onsite truck        | 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 | 0.00  |
| Annual              | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.08 | 0.06 | 0.62 | 0.53 | < 0.005 | 0.03 | —    | 0.03 | 0.02 | —    | 0.02 | — | 69.9  | 69.9  | < 0.005 | < 0.005 | —    | 70.2  |
| Demolition          | —    | —    | —    | —    | —       | —    | 0.21 | 0.21 | —    | 0.03 | 0.03 | — | —     | —     | —       | —       | —    | —     |
| Onsite truck        | 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 | 0.00  |
| Offsite             | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.07 | 0.06 | 0.06 | 0.98 | 0.00    | 0.00 | 0.20 | 0.20 | 0.00 | 0.05 | 0.05 | — | 207   | 207   | 0.01    | 0.01    | 0.92 | 211   |

|                           |         |         |         |      |         |         |         |         |         |         |         |   |       |       |         |         |      |       |
|---------------------------|---------|---------|---------|------|---------|---------|---------|---------|---------|---------|---------|---|-------|-------|---------|---------|------|-------|
| Vendor                    | 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 | 0.00  |
| Hauling                   | 0.83    | 0.16    | 9.92    | 4.30 | 0.05    | 0.10    | 1.96    | 2.06    | 0.10    | 0.55    | 0.65    | — | 7,798 | 7,798 | 0.66    | 1.23    | 16.1 | 8,196 |
| Daily,<br>Winter<br>(Max) | —       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Average<br>Daily          | —       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker                    | 0.01    | 0.01    | 0.01    | 0.11 | 0.00    | 0.00    | 0.02    | 0.02    | 0.00    | 0.01    | 0.01    | — | 24.7  | 24.7  | < 0.005 | < 0.005 | 0.05 | 25.0  |
| Vendor                    | 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 | 0.00  |
| Hauling                   | 0.10    | 0.02    | 1.28    | 0.53 | 0.01    | 0.01    | 0.24    | 0.25    | 0.01    | 0.07    | 0.08    | — | 961   | 961   | 0.08    | 0.15    | 0.86 | 1,009 |
| Annual                    | —       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker                    | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 4.08  | 4.08  | < 0.005 | < 0.005 | 0.01 | 4.14  |
| Vendor                    | 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 | 0.00  |
| Hauling                   | 0.02    | < 0.005 | 0.23    | 0.10 | < 0.005 | < 0.005 | 0.04    | 0.05    | < 0.005 | 0.01    | 0.01    | — | 159   | 159   | 0.01    | 0.03    | 0.14 | 167   |

### 3.3. Grading (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location                  | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R    | CO2e  |
|---------------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|
| Onsite                    | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Daily,<br>Summer<br>(Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road<br>Equipment     | 2.43 | 2.04 | 20.0 | 19.7 | 0.03 | 0.94  | —     | 0.94  | 0.87   | —      | 0.87   | —    | 2,958 | 2,958 | 0.12 | 0.02 | —    | 2,968 |
| Onsite<br>truck           | 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 | 0.00  |
| Daily,<br>Winter<br>(Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Average<br>Daily          | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |

|                     |         |         |         |      |         |      |         |         |      |         |         |   |      |      |         |         |         |      |
|---------------------|---------|---------|---------|------|---------|------|---------|---------|------|---------|---------|---|------|------|---------|---------|---------|------|
| Off-Road Equipment  | 0.15    | 0.13    | 1.26    | 1.24 | < 0.005 | 0.06 | —       | 0.06    | 0.05 | —       | 0.05    | — | 186  | 186  | 0.01    | < 0.005 | —       | 187  |
| Onsite truck        | 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    | 0.00 |
| Annual              | —       | —       | —       | —    | —       | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Off-Road Equipment  | 0.03    | 0.02    | 0.23    | 0.23 | < 0.005 | 0.01 | —       | 0.01    | 0.01 | —       | 0.01    | — | 30.9 | 30.9 | < 0.005 | < 0.005 | —       | 31.0 |
| Onsite truck        | 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    | 0.00 |
| Offsite             | —       | —       | —       | —    | —       | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Daily, Summer (Max) | —       | —       | —       | —    | —       | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | 0.07    | 0.06    | 0.06    | 0.98 | 0.00    | 0.00 | 0.20    | 0.20    | 0.00 | 0.05    | 0.05    | — | 207  | 207  | 0.01    | 0.01    | 0.92    | 211  |
| Vendor              | 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    | 0.00 |
| Hauling             | 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    | 0.00 |
| Daily, Winter (Max) | —       | —       | —       | —    | —       | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Average Daily       | —       | —       | —       | —    | —       | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | < 0.005 | 0.06 | 0.00    | 0.00 | 0.01    | 0.01    | 0.00 | < 0.005 | < 0.005 | — | 12.6 | 12.6 | < 0.005 | < 0.005 | 0.03    | 12.8 |
| Vendor              | 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    | 0.00 |
| Hauling             | 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    | 0.00 |
| Annual              | —       | —       | —       | —    | —       | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00    | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.09 | 2.09 | < 0.005 | < 0.005 | < 0.005 | 2.12 |
| Vendor              | 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    | 0.00 |
| Hauling             | 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    | 0.00 |

### 3.4. Grading (2023) - Mitigated

## Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location            | TOG  | ROG  | NOx  | CO   | SO2     | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4     | N2O     | R    | CO2e  |
|---------------------|------|------|------|------|---------|-------|-------|-------|--------|--------|--------|------|-------|-------|---------|---------|------|-------|
| Onsite              | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 2.43 | 2.04 | 20.0 | 19.7 | 0.03    | 0.94  | —     | 0.94  | 0.87   | —      | 0.87   | —    | 2,958 | 2,958 | 0.12    | 0.02    | —    | 2,968 |
| Onsite truck        | 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 | 0.00  |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —       | —       | —    | —     |
| Average Daily       | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.15 | 0.13 | 1.26 | 1.24 | < 0.005 | 0.06  | —     | 0.06  | 0.05   | —      | 0.05   | —    | 186   | 186   | 0.01    | < 0.005 | —    | 187   |
| Onsite truck        | 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 | 0.00  |
| Annual              | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.03 | 0.02 | 0.23 | 0.23 | < 0.005 | 0.01  | —     | 0.01  | 0.01   | —      | 0.01   | —    | 30.9  | 30.9  | < 0.005 | < 0.005 | —    | 31.0  |
| Onsite truck        | 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 | 0.00  |
| Offsite             | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —       | —       | —    | —     |
| Worker              | 0.07 | 0.06 | 0.06 | 0.98 | 0.00    | 0.00  | 0.20  | 0.20  | 0.00   | 0.05   | 0.05   | —    | 207   | 207   | 0.01    | 0.01    | 0.92 | 211   |
| Vendor              | 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 | 0.00  |
| Hauling             | 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 | 0.00  |

|                     |         |         |         |      |      |      |         |         |      |         |         |   |      |      |         |         |         |      |
|---------------------|---------|---------|---------|------|------|------|---------|---------|------|---------|---------|---|------|------|---------|---------|---------|------|
| Daily, Winter (Max) | —       | —       | —       | —    | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Average Daily       | —       | —       | —       | —    | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | < 0.005 | 0.06 | 0.00 | 0.00 | 0.01    | 0.01    | 0.00 | < 0.005 | < 0.005 | — | 12.6 | 12.6 | < 0.005 | < 0.005 | 0.03    | 12.8 |
| Vendor              | 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    | 0.00 |
| Hauling             | 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    | 0.00 |
| Annual              | —       | —       | —       | —    | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.09 | 2.09 | < 0.005 | < 0.005 | < 0.005 | 2.12 |
| Vendor              | 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    | 0.00 |
| Hauling             | 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    | 0.00 |

### 3.5. Building Construction (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location            | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R    | CO2e  |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|
| Onsite              | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment  | 1.50 | 1.26 | 11.8 | 13.2 | 0.02 | 0.55  | —     | 0.55  | 0.51   | —      | 0.51   | —    | 2,397 | 2,397 | 0.10 | 0.02 | —    | 2,406 |
| Onsite truck        | 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 | 0.00  |
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment  | 1.50 | 1.26 | 11.8 | 13.2 | 0.02 | 0.55  | —     | 0.55  | 0.51   | —      | 0.51   | —    | 2,397 | 2,397 | 0.10 | 0.02 | —    | 2,406 |
| Onsite truck        | 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 | 0.00  |

|                     |      |      |      |      |         |         |      |      |         |      |      |   |      |      |         |         |      |      |
|---------------------|------|------|------|------|---------|---------|------|------|---------|------|------|---|------|------|---------|---------|------|------|
| Average Daily       | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —    | —    | —       | —       | —    | —    |
| Off-Road Equipment  | 0.44 | 0.37 | 3.49 | 3.89 | 0.01    | 0.16    | —    | 0.16 | 0.15    | —    | 0.15 | — | 708  | 708  | 0.03    | 0.01    | —    | 711  |
| Onsite truck        | 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 | 0.00 |
| Annual              | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —    | —    | —       | —       | —    | —    |
| Off-Road Equipment  | 0.08 | 0.07 | 0.64 | 0.71 | < 0.005 | 0.03    | —    | 0.03 | 0.03    | —    | 0.03 | — | 117  | 117  | < 0.005 | < 0.005 | —    | 118  |
| Onsite truck        | 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 | 0.00 |
| Offsite             | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —    | —    | —       | —       | —    | —    |
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.25 | 0.22 | 0.23 | 3.71 | 0.00    | 0.00    | 0.74 | 0.74 | 0.00    | 0.17 | 0.17 | — | 787  | 787  | 0.03    | 0.03    | 3.49 | 800  |
| Vendor              | 0.06 | 0.02 | 0.81 | 0.41 | 0.01    | 0.01    | 0.19 | 0.20 | 0.01    | 0.05 | 0.06 | — | 744  | 744  | 0.04    | 0.10    | 1.98 | 777  |
| Hauling             | 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 | 0.00 |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.25 | 0.22 | 0.28 | 3.20 | 0.00    | 0.00    | 0.74 | 0.74 | 0.00    | 0.17 | 0.17 | — | 749  | 749  | 0.03    | 0.03    | 0.09 | 758  |
| Vendor              | 0.06 | 0.02 | 0.85 | 0.42 | 0.01    | 0.01    | 0.19 | 0.20 | 0.01    | 0.05 | 0.06 | — | 744  | 744  | 0.04    | 0.10    | 0.05 | 775  |
| Hauling             | 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 | 0.00 |
| Average Daily       | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.07 | 0.06 | 0.08 | 0.99 | 0.00    | 0.00    | 0.22 | 0.22 | 0.00    | 0.05 | 0.05 | — | 224  | 224  | 0.01    | 0.01    | 0.45 | 228  |
| Vendor              | 0.02 | 0.01 | 0.25 | 0.12 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02 | 0.02 | — | 220  | 220  | 0.01    | 0.03    | 0.25 | 229  |
| Hauling             | 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 | 0.00 |
| Annual              | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.01 | 0.01 | 0.01 | 0.18 | 0.00    | 0.00    | 0.04 | 0.04 | 0.00    | 0.01 | 0.01 | — | 37.1 | 37.1 | < 0.005 | < 0.005 | 0.07 | 37.7 |

|         |         |         |      |      |         |         |      |      |         |         |         |   |      |      |         |         |      |      |
|---------|---------|---------|------|------|---------|---------|------|------|---------|---------|---------|---|------|------|---------|---------|------|------|
| Vendor  | < 0.005 | < 0.005 | 0.05 | 0.02 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 36.4 | 36.4 | < 0.005 | < 0.005 | 0.04 | 37.9 |
| Hauling | 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 | 0.00 |

### 3.6. Building Construction (2023) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location            | TOG  | ROG  | NOx  | CO   | SO2     | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4     | N2O     | R    | CO2e  |
|---------------------|------|------|------|------|---------|-------|-------|-------|--------|--------|--------|------|-------|-------|---------|---------|------|-------|
| Onsite              | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 1.50 | 1.26 | 11.8 | 13.2 | 0.02    | 0.55  | —     | 0.55  | 0.51   | —      | 0.51   | —    | 2,397 | 2,397 | 0.10    | 0.02    | —    | 2,406 |
| Onsite truck        | 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 | 0.00  |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 1.50 | 1.26 | 11.8 | 13.2 | 0.02    | 0.55  | —     | 0.55  | 0.51   | —      | 0.51   | —    | 2,397 | 2,397 | 0.10    | 0.02    | —    | 2,406 |
| Onsite truck        | 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 | 0.00  |
| Average Daily       | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.44 | 0.37 | 3.49 | 3.89 | 0.01    | 0.16  | —     | 0.16  | 0.15   | —      | 0.15   | —    | 708   | 708   | 0.03    | 0.01    | —    | 711   |
| Onsite truck        | 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 | 0.00  |
| Annual              | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.08 | 0.07 | 0.64 | 0.71 | < 0.005 | 0.03  | —     | 0.03  | 0.03   | —      | 0.03   | —    | 117   | 117   | < 0.005 | < 0.005 | —    | 118   |
| Onsite truck        | 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 | 0.00  |

|                     |         |         |      |      |         |         |      |      |         |         |         |   |      |      |         |         |      |      |
|---------------------|---------|---------|------|------|---------|---------|------|------|---------|---------|---------|---|------|------|---------|---------|------|------|
| Offsite             | —       | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Daily, Summer (Max) | —       | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.25    | 0.22    | 0.23 | 3.71 | 0.00    | 0.00    | 0.74 | 0.74 | 0.00    | 0.17    | 0.17    | — | 787  | 787  | 0.03    | 0.03    | 3.49 | 800  |
| Vendor              | 0.06    | 0.02    | 0.81 | 0.41 | 0.01    | 0.01    | 0.19 | 0.20 | 0.01    | 0.05    | 0.06    | — | 744  | 744  | 0.04    | 0.10    | 1.98 | 777  |
| Hauling             | 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 | 0.00 |
| Daily, Winter (Max) | —       | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.25    | 0.22    | 0.28 | 3.20 | 0.00    | 0.00    | 0.74 | 0.74 | 0.00    | 0.17    | 0.17    | — | 749  | 749  | 0.03    | 0.03    | 0.09 | 758  |
| Vendor              | 0.06    | 0.02    | 0.85 | 0.42 | 0.01    | 0.01    | 0.19 | 0.20 | 0.01    | 0.05    | 0.06    | — | 744  | 744  | 0.04    | 0.10    | 0.05 | 775  |
| Hauling             | 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 | 0.00 |
| Average Daily       | —       | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.07    | 0.06    | 0.08 | 0.99 | 0.00    | 0.00    | 0.22 | 0.22 | 0.00    | 0.05    | 0.05    | — | 224  | 224  | 0.01    | 0.01    | 0.45 | 228  |
| Vendor              | 0.02    | 0.01    | 0.25 | 0.12 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02    | 0.02    | — | 220  | 220  | 0.01    | 0.03    | 0.25 | 229  |
| Hauling             | 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 | 0.00 |
| Annual              | —       | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.01    | 0.01    | 0.01 | 0.18 | 0.00    | 0.00    | 0.04 | 0.04 | 0.00    | 0.01    | 0.01    | — | 37.1 | 37.1 | < 0.005 | < 0.005 | 0.07 | 37.7 |
| Vendor              | < 0.005 | < 0.005 | 0.05 | 0.02 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 36.4 | 36.4 | < 0.005 | < 0.005 | 0.04 | 37.9 |
| Hauling             | 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 | 0.00 |

### 3.7. Building Construction (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location            | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Onsite              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|                     |      |      |      |      |         |      |      |      |      |      |      |   |       |       |      |         |      |       |
|---------------------|------|------|------|------|---------|------|------|------|------|------|------|---|-------|-------|------|---------|------|-------|
| Off-Road Equipment  | 1.44 | 1.20 | 11.2 | 13.1 | 0.02    | 0.50 | —    | 0.50 | 0.46 | —    | 0.46 | — | 2,398 | 2,398 | 0.10 | 0.02    | —    | 2,406 |
| Onsite truck        | 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 | 0.00  |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 1.44 | 1.20 | 11.2 | 13.1 | 0.02    | 0.50 | —    | 0.50 | 0.46 | —    | 0.46 | — | 2,398 | 2,398 | 0.10 | 0.02    | —    | 2,406 |
| Onsite truck        | 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 | 0.00  |
| Average Daily       | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 0.52 | 0.44 | 4.06 | 4.75 | 0.01    | 0.18 | —    | 0.18 | 0.17 | —    | 0.17 | — | 868   | 868   | 0.04 | 0.01    | —    | 871   |
| Onsite truck        | 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 | 0.00  |
| Annual              | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 0.09 | 0.08 | 0.74 | 0.87 | < 0.005 | 0.03 | —    | 0.03 | 0.03 | —    | 0.03 | — | 144   | 144   | 0.01 | < 0.005 | —    | 144   |
| Onsite truck        | 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 | 0.00  |
| Offsite             | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Worker              | 0.24 | 0.21 | 0.22 | 3.42 | 0.00    | 0.00 | 0.74 | 0.74 | 0.00 | 0.17 | 0.17 | — | 772   | 772   | 0.01 | 0.03    | 3.16 | 783   |
| Vendor              | 0.06 | 0.02 | 0.78 | 0.39 | 0.01    | 0.01 | 0.19 | 0.20 | 0.01 | 0.05 | 0.06 | — | 735   | 735   | 0.04 | 0.10    | 1.98 | 768   |
| Hauling             | 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 | 0.00  |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Worker              | 0.24 | 0.21 | 0.25 | 2.95 | 0.00    | 0.00 | 0.74 | 0.74 | 0.00 | 0.17 | 0.17 | — | 734   | 734   | 0.01 | 0.03    | 0.08 | 743   |

|               |         |         |      |      |         |         |      |      |         |         |         |   |      |      |         |         |      |      |
|---------------|---------|---------|------|------|---------|---------|------|------|---------|---------|---------|---|------|------|---------|---------|------|------|
| Vendor        | 0.06    | 0.02    | 0.81 | 0.40 | 0.01    | 0.01    | 0.19 | 0.20 | 0.01    | 0.05    | 0.06    | — | 735  | 735  | 0.04    | 0.10    | 0.05 | 766  |
| Hauling       | 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 | 0.00 |
| Average Daily | —       | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker        | 0.09    | 0.08    | 0.09 | 1.12 | 0.00    | 0.00    | 0.27 | 0.27 | 0.00    | 0.06    | 0.06    | — | 269  | 269  | < 0.005 | 0.01    | 0.49 | 273  |
| Vendor        | 0.02    | 0.01    | 0.30 | 0.14 | < 0.005 | < 0.005 | 0.07 | 0.07 | < 0.005 | 0.02    | 0.02    | — | 266  | 266  | 0.01    | 0.04    | 0.31 | 278  |
| Hauling       | 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 | 0.00 |
| Annual        | —       | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker        | 0.02    | 0.01    | 0.02 | 0.20 | 0.00    | 0.00    | 0.05 | 0.05 | 0.00    | 0.01    | 0.01    | — | 44.6 | 44.6 | < 0.005 | < 0.005 | 0.08 | 45.2 |
| Vendor        | < 0.005 | < 0.005 | 0.05 | 0.03 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 44.1 | 44.1 | < 0.005 | 0.01    | 0.05 | 46.0 |
| Hauling       | 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 | 0.00 |

### 3.8. Building Construction (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location            | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R    | CO2e  |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|
| Onsite              | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment  | 1.44 | 1.20 | 11.2 | 13.1 | 0.02 | 0.50  | —     | 0.50  | 0.46   | —      | 0.46   | —    | 2,398 | 2,398 | 0.10 | 0.02 | —    | 2,406 |
| Onsite truck        | 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 | 0.00  |
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment  | 1.44 | 1.20 | 11.2 | 13.1 | 0.02 | 0.50  | —     | 0.50  | 0.46   | —      | 0.46   | —    | 2,398 | 2,398 | 0.10 | 0.02 | —    | 2,406 |
| Onsite truck        | 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 | 0.00  |

|                     |      |      |      |      |         |         |      |      |         |      |      |   |      |      |         |         |      |      |
|---------------------|------|------|------|------|---------|---------|------|------|---------|------|------|---|------|------|---------|---------|------|------|
| Average Daily       | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —    | —    | —       | —       | —    | —    |
| Off-Road Equipment  | 0.52 | 0.44 | 4.06 | 4.75 | 0.01    | 0.18    | —    | 0.18 | 0.17    | —    | 0.17 | — | 868  | 868  | 0.04    | 0.01    | —    | 871  |
| Onsite truck        | 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 | 0.00 |
| Annual              | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —    | —    | —       | —       | —    | —    |
| Off-Road Equipment  | 0.09 | 0.08 | 0.74 | 0.87 | < 0.005 | 0.03    | —    | 0.03 | 0.03    | —    | 0.03 | — | 144  | 144  | 0.01    | < 0.005 | —    | 144  |
| Onsite truck        | 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 | 0.00 |
| Offsite             | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —    | —    | —       | —       | —    | —    |
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.24 | 0.21 | 0.22 | 3.42 | 0.00    | 0.00    | 0.74 | 0.74 | 0.00    | 0.17 | 0.17 | — | 772  | 772  | 0.01    | 0.03    | 3.16 | 783  |
| Vendor              | 0.06 | 0.02 | 0.78 | 0.39 | 0.01    | 0.01    | 0.19 | 0.20 | 0.01    | 0.05 | 0.06 | — | 735  | 735  | 0.04    | 0.10    | 1.98 | 768  |
| Hauling             | 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 | 0.00 |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.24 | 0.21 | 0.25 | 2.95 | 0.00    | 0.00    | 0.74 | 0.74 | 0.00    | 0.17 | 0.17 | — | 734  | 734  | 0.01    | 0.03    | 0.08 | 743  |
| Vendor              | 0.06 | 0.02 | 0.81 | 0.40 | 0.01    | 0.01    | 0.19 | 0.20 | 0.01    | 0.05 | 0.06 | — | 735  | 735  | 0.04    | 0.10    | 0.05 | 766  |
| Hauling             | 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 | 0.00 |
| Average Daily       | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.09 | 0.08 | 0.09 | 1.12 | 0.00    | 0.00    | 0.27 | 0.27 | 0.00    | 0.06 | 0.06 | — | 269  | 269  | < 0.005 | 0.01    | 0.49 | 273  |
| Vendor              | 0.02 | 0.01 | 0.30 | 0.14 | < 0.005 | < 0.005 | 0.07 | 0.07 | < 0.005 | 0.02 | 0.02 | — | 266  | 266  | 0.01    | 0.04    | 0.31 | 278  |
| Hauling             | 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 | 0.00 |
| Annual              | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.02 | 0.01 | 0.02 | 0.20 | 0.00    | 0.00    | 0.05 | 0.05 | 0.00    | 0.01 | 0.01 | — | 44.6 | 44.6 | < 0.005 | < 0.005 | 0.08 | 45.2 |

|         |         |         |      |      |         |         |      |      |         |         |         |   |      |      |         |      |      |      |
|---------|---------|---------|------|------|---------|---------|------|------|---------|---------|---------|---|------|------|---------|------|------|------|
| Vendor  | < 0.005 | < 0.005 | 0.05 | 0.03 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 44.1 | 44.1 | < 0.005 | 0.01 | 0.05 | 46.0 |
| Hauling | 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 | 0.00 |

### 3.9. Paving (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location                  | TOG  | ROG  | NOx  | CO   | SO2     | PM10E   | PM10D | PM10T   | PM2.5E  | PM2.5D | PM2.5T  | BCO2 | NBCO2 | CO2T  | CH4     | N2O     | R    | CO2e  |
|---------------------------|------|------|------|------|---------|---------|-------|---------|---------|--------|---------|------|-------|-------|---------|---------|------|-------|
| Onsite                    | —    | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —     | —       | —       | —    | —     |
| Daily,<br>Summer<br>(Max) | —    | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —     | —       | —       | —    | —     |
| Off-Road<br>Equipment     | 0.91 | 0.76 | 6.87 | 8.89 | 0.01    | 0.33    | —     | 0.33    | 0.30    | —      | 0.30    | —    | 1,351 | 1,351 | 0.05    | 0.01    | —    | 1,355 |
| Paving                    | —    | 0.00 | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —     | —       | —       | —    | —     |
| Onsite<br>truck           | 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 | 0.00  |
| Daily,<br>Winter<br>(Max) | —    | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —     | —       | —       | —    | —     |
| Average<br>Daily          | —    | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —     | —       | —       | —    | —     |
| Off-Road<br>Equipment     | 0.05 | 0.05 | 0.41 | 0.54 | < 0.005 | 0.02    | —     | 0.02    | 0.02    | —      | 0.02    | —    | 81.4  | 81.4  | < 0.005 | < 0.005 | —    | 81.7  |
| Paving                    | —    | 0.00 | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —     | —       | —       | —    | —     |
| Onsite<br>truck           | 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 | 0.00  |
| Annual                    | —    | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —     | —       | —       | —    | —     |
| Off-Road<br>Equipment     | 0.01 | 0.01 | 0.08 | 0.10 | < 0.005 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | —    | 13.5  | 13.5  | < 0.005 | < 0.005 | —    | 13.5  |
| Paving                    | —    | 0.00 | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —     | —       | —       | —    | —     |
| Onsite<br>truck           | 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 | 0.00  |

|                     |         |         |         |      |      |      |         |         |      |         |         |   |      |      |         |         |         |      |
|---------------------|---------|---------|---------|------|------|------|---------|---------|------|---------|---------|---|------|------|---------|---------|---------|------|
| Offsite             | —       | —       | —       | —    | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Daily, Summer (Max) | —       | —       | —       | —    | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | 0.08    | 0.07    | 0.08    | 1.20 | 0.00 | 0.00 | 0.26    | 0.26    | 0.00 | 0.06    | 0.06    | — | 271  | 271  | < 0.005 | 0.01    | 1.11    | 275  |
| Vendor              | 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    | 0.00 |
| Hauling             | 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    | 0.00 |
| Daily, Winter (Max) | —       | —       | —       | —    | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Average Daily       | —       | —       | —       | —    | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | 0.01    | < 0.005 | 0.01    | 0.07 | 0.00 | 0.00 | 0.02    | 0.02    | 0.00 | < 0.005 | < 0.005 | — | 15.8 | 15.8 | < 0.005 | < 0.005 | 0.03    | 16.0 |
| Vendor              | 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    | 0.00 |
| Hauling             | 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    | 0.00 |
| Annual              | —       | —       | —       | —    | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.61 | 2.61 | < 0.005 | < 0.005 | < 0.005 | 2.64 |
| Vendor              | 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    | 0.00 |
| Hauling             | 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    | 0.00 |

### 3.10. Paving (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location            | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R | CO2e  |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|---|-------|
| Onsite              | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | — | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | — | —     |
| Off-Road Equipment  | 0.91 | 0.76 | 6.87 | 8.89 | 0.01 | 0.33  | —     | 0.33  | 0.30   | —      | 0.30   | —    | 1,351 | 1,351 | 0.05 | 0.01 | — | 1,355 |
| Paving              | —    | 0.00 | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | — | —     |

|                     |      |         |      |      |         |         |      |         |         |         |         |   |      |      |         |         |      |      |
|---------------------|------|---------|------|------|---------|---------|------|---------|---------|---------|---------|---|------|------|---------|---------|------|------|
| Onsite truck        | 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 | 0.00 |
| Daily, Winter (Max) | —    | —       | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Average Daily       | —    | —       | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Off-Road Equipment  | 0.05 | 0.05    | 0.41 | 0.54 | < 0.005 | 0.02    | —    | 0.02    | 0.02    | —       | 0.02    | — | 81.4 | 81.4 | < 0.005 | < 0.005 | —    | 81.7 |
| Paving              | —    | 0.00    | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Onsite truck        | 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 | 0.00 |
| Annual              | —    | —       | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Off-Road Equipment  | 0.01 | 0.01    | 0.08 | 0.10 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —       | < 0.005 | — | 13.5 | 13.5 | < 0.005 | < 0.005 | —    | 13.5 |
| Paving              | —    | 0.00    | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Onsite truck        | 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 | 0.00 |
| Offsite             | —    | —       | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Daily, Summer (Max) | —    | —       | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.08 | 0.07    | 0.08 | 1.20 | 0.00    | 0.00    | 0.26 | 0.26    | 0.00    | 0.06    | 0.06    | — | 271  | 271  | < 0.005 | 0.01    | 1.11 | 275  |
| Vendor              | 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 | 0.00 |
| Hauling             | 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 | 0.00 |
| Daily, Winter (Max) | —    | —       | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Average Daily       | —    | —       | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.01 | < 0.005 | 0.01 | 0.07 | 0.00    | 0.00    | 0.02 | 0.02    | 0.00    | < 0.005 | < 0.005 | — | 15.8 | 15.8 | < 0.005 | < 0.005 | 0.03 | 16.0 |
| Vendor              | 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 | 0.00 |

|         |         |         |         |      |      |      |         |         |      |         |         |   |      |      |         |         |         |      |
|---------|---------|---------|---------|------|------|------|---------|---------|------|---------|---------|---|------|------|---------|---------|---------|------|
| Hauling | 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    | 0.00 |
| Annual  | —       | —       | —       | —    | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker  | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.61 | 2.61 | < 0.005 | < 0.005 | < 0.005 | 2.64 |
| Vendor  | 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    | 0.00 |
| Hauling | 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    | 0.00 |

### 3.11. Architectural Coating (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location                      | TOG  | ROG  | NOx  | CO   | SO2     | PM10E   | PM10D | PM10T   | PM2.5E  | PM2.5D | PM2.5T  | BCO2 | NBCO2 | CO2T | CH4     | N2O     | R    | CO2e |
|-------------------------------|------|------|------|------|---------|---------|-------|---------|---------|--------|---------|------|-------|------|---------|---------|------|------|
| Onsite                        | —    | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| Daily,<br>Summer<br>(Max)     | —    | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| Off-Road<br>Equipment         | 0.17 | 0.14 | 0.91 | 1.15 | < 0.005 | 0.03    | —     | 0.03    | 0.03    | —      | 0.03    | —    | 134   | 134  | 0.01    | < 0.005 | —    | 134  |
| Architect<br>ural<br>Coatings | —    | 55.8 | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| Onsite<br>truck               | 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 | 0.00 |
| Daily,<br>Winter<br>(Max)     | —    | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| Average<br>Daily              | —    | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| Off-Road<br>Equipment         | 0.01 | 0.01 | 0.06 | 0.07 | < 0.005 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | —    | 8.41  | 8.41 | < 0.005 | < 0.005 | —    | 8.44 |
| Architect<br>ural<br>Coatings | —    | 3.52 | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| Onsite<br>truck               | 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 | 0.00 |

|                        |         |         |         |      |         |         |         |         |         |         |         |   |      |      |         |         |         |      |
|------------------------|---------|---------|---------|------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|---------|------|
| Annual                 | —       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Off-Road Equipment     | < 0.005 | < 0.005 | 0.01    | 0.01 | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | — | 1.39 | 1.39 | < 0.005 | < 0.005 | —       | 1.40 |
| Architectural Coatings | —       | 0.64    | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Onsite truck           | 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    | 0.00 |
| Offsite                | —       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Daily, Summer (Max)    | —       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker                 | 0.05    | 0.04    | 0.04    | 0.68 | 0.00    | 0.00    | 0.15    | 0.15    | 0.00    | 0.03    | 0.03    | — | 154  | 154  | < 0.005 | 0.01    | 0.63    | 157  |
| Vendor                 | 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    | 0.00 |
| Hauling                | 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    | 0.00 |
| Daily, Winter (Max)    | —       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Average Daily          | —       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker                 | < 0.005 | < 0.005 | < 0.005 | 0.04 | 0.00    | 0.00    | 0.01    | 0.01    | 0.00    | < 0.005 | < 0.005 | — | 9.38 | 9.38 | < 0.005 | < 0.005 | 0.02    | 9.51 |
| Vendor                 | 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    | 0.00 |
| Hauling                | 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    | 0.00 |
| Annual                 | —       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker                 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 1.55 | 1.55 | < 0.005 | < 0.005 | < 0.005 | 1.57 |
| Vendor                 | 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    | 0.00 |
| Hauling                | 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    | 0.00 |

### 3.12. Architectural Coating (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location                | TOG     | ROG     | NOx  | CO   | SO2     | PM10E   | PM10D | PM10T   | PM2.5E  | PM2.5D | PM2.5T  | BCO2 | NBCO2 | CO2T | CH4     | N2O     | R    | CO2e |
|-------------------------|---------|---------|------|------|---------|---------|-------|---------|---------|--------|---------|------|-------|------|---------|---------|------|------|
| Onsite                  | —       | —       | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| Daily, Summer (Max)     | —       | —       | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| Off-Road Equipment      | 0.17    | 0.14    | 0.91 | 1.15 | < 0.005 | 0.03    | —     | 0.03    | 0.03    | —      | 0.03    | —    | 134   | 134  | 0.01    | < 0.005 | —    | 134  |
| Architect ural Coatings | —       | 55.8    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| Onsite truck            | 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 | 0.00 |
| Daily, Winter (Max)     | —       | —       | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| Average Daily           | —       | —       | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| Off-Road Equipment      | 0.01    | 0.01    | 0.06 | 0.07 | < 0.005 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | —    | 8.41  | 8.41 | < 0.005 | < 0.005 | —    | 8.44 |
| Architect ural Coatings | —       | 3.52    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| Onsite truck            | 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 | 0.00 |
| Annual                  | —       | —       | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| Off-Road Equipment      | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | —    | 1.39  | 1.39 | < 0.005 | < 0.005 | —    | 1.40 |
| Architect ural Coatings | —       | 0.64    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| Onsite truck            | 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 | 0.00 |
| Offsite                 | —       | —       | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |

|                     |         |         |         |      |      |      |         |         |      |         |         |   |      |      |         |         |         |      |
|---------------------|---------|---------|---------|------|------|------|---------|---------|------|---------|---------|---|------|------|---------|---------|---------|------|
| Daily, Summer (Max) | —       | —       | —       | —    | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | 0.05    | 0.04    | 0.04    | 0.68 | 0.00 | 0.00 | 0.15    | 0.15    | 0.00 | 0.03    | 0.03    | — | 154  | 154  | < 0.005 | 0.01    | 0.63    | 157  |
| Vendor              | 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    | 0.00 |
| Hauling             | 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    | 0.00 |
| Daily, Winter (Max) | —       | —       | —       | —    | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Average Daily       | —       | —       | —       | —    | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | < 0.005 | 0.04 | 0.00 | 0.00 | 0.01    | 0.01    | 0.00 | < 0.005 | < 0.005 | — | 9.38 | 9.38 | < 0.005 | < 0.005 | 0.02    | 9.51 |
| Vendor              | 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    | 0.00 |
| Hauling             | 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    | 0.00 |
| Annual              | —       | —       | —       | —    | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 1.55 | 1.55 | < 0.005 | < 0.005 | < 0.005 | 1.57 |
| Vendor              | 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    | 0.00 |
| Hauling             | 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    | 0.00 |

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

#### 4.1.2. Mitigated

Mobile source emissions results are presented in Sections 2.5. No further detailed breakdown of emissions is available.

### 4.2. Energy

## 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use                         | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4  | N2O     | R | CO2e |
|----------------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|------|---------|---|------|
| Daily, Summer (Max)              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | — | —    |
| Unrefrigerated Warehouse-No Rail | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 565   | 565  | 0.05 | 0.01    | — | 568  |
| General Office Building          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 204   | 204  | 0.02 | < 0.005 | — | 205  |
| Total                            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 769   | 769  | 0.07 | 0.01    | — | 774  |
| Daily, Winter (Max)              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | — | —    |
| Unrefrigerated Warehouse-No Rail | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 565   | 565  | 0.05 | 0.01    | — | 568  |
| General Office Building          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 204   | 204  | 0.02 | < 0.005 | — | 205  |
| Total                            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 769   | 769  | 0.07 | 0.01    | — | 774  |
| Annual                           | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | — | —    |
| Unrefrigerated Warehouse-No Rail | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 93.6  | 93.6 | 0.01 | < 0.005 | — | 94.1 |

|                         |   |   |   |   |   |   |   |   |   |   |   |   |      |      |         |         |   |      |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|------|------|---------|---------|---|------|
| General Office Building | — | — | — | — | — | — | — | — | — | — | — | — | 33.8 | 33.8 | < 0.005 | < 0.005 | — | 34.0 |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | — | 127  | 127  | 0.01    | < 0.005 | — | 128  |

#### 4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use                         | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4  | N2O     | R | CO2e |
|----------------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|------|---------|---|------|
| Daily, Summer (Max)              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | — | —    |
| Unrefrigerated Warehouse-No Rail | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 560   | 560  | 0.05 | 0.01    | — | 563  |
| General Office Building          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 201   | 201  | 0.02 | < 0.005 | — | 203  |
| Total                            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 762   | 762  | 0.07 | 0.01    | — | 766  |
| Daily, Winter (Max)              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | — | —    |
| Unrefrigerated Warehouse-No Rail | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 560   | 560  | 0.05 | 0.01    | — | 563  |
| General Office Building          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 201   | 201  | 0.02 | < 0.005 | — | 203  |
| Total                            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 762   | 762  | 0.07 | 0.01    | — | 766  |
| Annual                           | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | — | —    |

|                                  |   |   |   |   |   |   |   |   |   |   |   |   |      |      |         |         |   |      |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|------|------|---------|---------|---|------|
| Unrefrigerated Warehouse-No Rail | — | — | — | — | — | — | — | — | — | — | — | — | 92.7 | 92.7 | 0.01    | < 0.005 | — | 93.3 |
| General Office Building          | — | — | — | — | — | — | — | — | — | — | — | — | 33.4 | 33.4 | < 0.005 | < 0.005 | — | 33.5 |
| Total                            | — | — | — | — | — | — | — | — | — | — | — | — | 126  | 126  | 0.01    | < 0.005 | — | 127  |

#### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use                         | TOG  | ROG     | NOx  | CO   | SO2     | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4  | N2O     | R | CO2e |
|----------------------------------|------|---------|------|------|---------|-------|-------|-------|--------|--------|--------|------|-------|------|------|---------|---|------|
| Daily, Summer (Max)              | —    | —       | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | — | —    |
| Unrefrigerated Warehouse-No Rail | 0.07 | 0.04    | 0.65 | 0.55 | < 0.005 | 0.05  | —     | 0.05  | 0.05   | —      | 0.05   | —    | 781   | 781  | 0.07 | < 0.005 | — | 783  |
| General Office Building          | 0.01 | < 0.005 | 0.08 | 0.07 | < 0.005 | 0.01  | —     | 0.01  | 0.01   | —      | 0.01   | —    | 97.5  | 97.5 | 0.01 | < 0.005 | — | 97.7 |
| Total                            | 0.08 | 0.04    | 0.74 | 0.62 | < 0.005 | 0.06  | —     | 0.06  | 0.06   | —      | 0.06   | —    | 878   | 878  | 0.08 | < 0.005 | — | 881  |
| Daily, Winter (Max)              | —    | —       | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | — | —    |
| Unrefrigerated Warehouse-No Rail | 0.07 | 0.04    | 0.65 | 0.55 | < 0.005 | 0.05  | —     | 0.05  | 0.05   | —      | 0.05   | —    | 781   | 781  | 0.07 | < 0.005 | — | 783  |
| General Office Building          | 0.01 | < 0.005 | 0.08 | 0.07 | < 0.005 | 0.01  | —     | 0.01  | 0.01   | —      | 0.01   | —    | 97.5  | 97.5 | 0.01 | < 0.005 | — | 97.7 |

|                                  |         |         |      |      |         |         |   |         |         |   |         |   |      |      |         |         |   |      |
|----------------------------------|---------|---------|------|------|---------|---------|---|---------|---------|---|---------|---|------|------|---------|---------|---|------|
| Total                            | 0.08    | 0.04    | 0.74 | 0.62 | < 0.005 | 0.06    | — | 0.06    | 0.06    | — | 0.06    | — | 878  | 878  | 0.08    | < 0.005 | — | 881  |
| Annual                           | —       | —       | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Unrefrigerated Warehouse-No Rail | 0.01    | 0.01    | 0.12 | 0.10 | < 0.005 | 0.01    | — | 0.01    | 0.01    | — | 0.01    | — | 129  | 129  | 0.01    | < 0.005 | — | 130  |
| General Office Building          | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 16.1 | 16.1 | < 0.005 | < 0.005 | — | 16.2 |
| Total                            | 0.01    | 0.01    | 0.13 | 0.11 | < 0.005 | 0.01    | — | 0.01    | 0.01    | — | 0.01    | — | 145  | 145  | 0.01    | < 0.005 | — | 146  |

#### 4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use                         | TOG  | ROG     | NOx  | CO   | SO2     | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4  | N2O     | R | CO2e |
|----------------------------------|------|---------|------|------|---------|-------|-------|-------|--------|--------|--------|------|-------|------|------|---------|---|------|
| Daily, Summer (Max)              | —    | —       | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | — | —    |
| Unrefrigerated Warehouse-No Rail | 0.07 | 0.04    | 0.65 | 0.55 | < 0.005 | 0.05  | —     | 0.05  | 0.05   | —      | 0.05   | —    | 781   | 781  | 0.07 | < 0.005 | — | 783  |
| General Office Building          | 0.01 | < 0.005 | 0.08 | 0.07 | < 0.005 | 0.01  | —     | 0.01  | 0.01   | —      | 0.01   | —    | 96.3  | 96.3 | 0.01 | < 0.005 | — | 96.5 |
| Total                            | 0.08 | 0.04    | 0.74 | 0.62 | < 0.005 | 0.06  | —     | 0.06  | 0.06   | —      | 0.06   | —    | 877   | 877  | 0.08 | < 0.005 | — | 880  |
| Daily, Winter (Max)              | —    | —       | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | — | —    |

|                                  |         |         |      |      |         |         |   |         |         |   |         |   |      |      |         |         |   |      |
|----------------------------------|---------|---------|------|------|---------|---------|---|---------|---------|---|---------|---|------|------|---------|---------|---|------|
| Unrefrigerated Warehouse-No Rail | 0.07    | 0.04    | 0.65 | 0.55 | < 0.005 | 0.05    | — | 0.05    | 0.05    | — | 0.05    | — | 781  | 781  | 0.07    | < 0.005 | — | 783  |
| General Office Building          | 0.01    | < 0.005 | 0.08 | 0.07 | < 0.005 | 0.01    | — | 0.01    | 0.01    | — | 0.01    | — | 96.3 | 96.3 | 0.01    | < 0.005 | — | 96.5 |
| Total                            | 0.08    | 0.04    | 0.74 | 0.62 | < 0.005 | 0.06    | — | 0.06    | 0.06    | — | 0.06    | — | 877  | 877  | 0.08    | < 0.005 | — | 880  |
| Annual                           | —       | —       | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Unrefrigerated Warehouse-No Rail | 0.01    | 0.01    | 0.12 | 0.10 | < 0.005 | 0.01    | — | 0.01    | 0.01    | — | 0.01    | — | 129  | 129  | 0.01    | < 0.005 | — | 130  |
| General Office Building          | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 15.9 | 15.9 | < 0.005 | < 0.005 | — | 16.0 |
| Total                            | 0.01    | 0.01    | 0.13 | 0.11 | < 0.005 | 0.01    | — | 0.01    | 0.01    | — | 0.01    | — | 145  | 145  | 0.01    | < 0.005 | — | 146  |

### 4.3. Area Emissions by Source

#### 4.3.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Source                 | TOG | ROG  | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|------------------------|-----|------|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max)    | —   | —    | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Consumer Products      | —   | 2.96 | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Architectural Coatings | —   | 0.35 | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|                        |      |      |      |      |         |         |   |         |         |   |         |   |      |      |         |         |   |      |
|------------------------|------|------|------|------|---------|---------|---|---------|---------|---|---------|---|------|------|---------|---------|---|------|
| Landscape Equipment    | 1.07 | 0.99 | 0.05 | 6.02 | < 0.005 | 0.01    | — | 0.01    | 0.01    | — | 0.01    | — | 24.8 | 24.8 | < 0.005 | < 0.005 | — | 24.8 |
| Total                  | 1.07 | 4.30 | 0.05 | 6.02 | < 0.005 | 0.01    | — | 0.01    | 0.01    | — | 0.01    | — | 24.8 | 24.8 | < 0.005 | < 0.005 | — | 24.8 |
| Daily, Winter (Max)    | —    | —    | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Consumer Products      | —    | 2.96 | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Architectural Coatings | —    | 0.35 | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Total                  | —    | 3.31 | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Annual                 | —    | —    | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Consumer Products      | —    | 0.54 | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Architectural Coatings | —    | 0.06 | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Landscape Equipment    | 0.13 | 0.12 | 0.01 | 0.75 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 2.81 | 2.81 | < 0.005 | < 0.005 | — | 2.82 |
| Total                  | 0.13 | 0.73 | 0.01 | 0.75 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 2.81 | 2.81 | < 0.005 | < 0.005 | — | 2.82 |

#### 4.3.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Source              | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|                        |      |      |      |      |         |         |   |         |         |   |         |   |      |      |         |         |   |      |
|------------------------|------|------|------|------|---------|---------|---|---------|---------|---|---------|---|------|------|---------|---------|---|------|
| Consumer Products      | —    | 2.96 | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Architectural Coatings | —    | 0.35 | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Landscape Equipment    | 1.07 | 0.99 | 0.05 | 6.02 | < 0.005 | 0.01    | — | 0.01    | 0.01    | — | 0.01    | — | 24.8 | 24.8 | < 0.005 | < 0.005 | — | 24.8 |
| Total                  | 1.07 | 4.30 | 0.05 | 6.02 | < 0.005 | 0.01    | — | 0.01    | 0.01    | — | 0.01    | — | 24.8 | 24.8 | < 0.005 | < 0.005 | — | 24.8 |
| Daily, Winter (Max)    | —    | —    | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Consumer Products      | —    | 2.96 | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Architectural Coatings | —    | 0.35 | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Total                  | —    | 3.31 | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Annual                 | —    | —    | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Consumer Products      | —    | 0.54 | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Architectural Coatings | —    | 0.06 | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Landscape Equipment    | 0.13 | 0.12 | 0.01 | 0.75 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 2.81 | 2.81 | < 0.005 | < 0.005 | — | 2.82 |
| Total                  | 0.13 | 0.73 | 0.01 | 0.75 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 2.81 | 2.81 | < 0.005 | < 0.005 | — | 2.82 |

## 4.4. Water Emissions by Land Use

### 4.4.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use                         | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4  | N2O  | R | CO2e |
|----------------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|------|------|---|------|
| Daily, Summer (Max)              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Unrefrigerated Warehouse-No Rail | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 56.0 | 190   | 246  | 5.76 | 0.14 | — | 431  |
| General Office Building          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 4.09 | 13.9  | 18.0 | 0.42 | 0.01 | — | 31.5 |
| Total                            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 60.1 | 204   | 264  | 6.18 | 0.15 | — | 463  |
| Daily, Winter (Max)              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Unrefrigerated Warehouse-No Rail | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 56.0 | 190   | 246  | 5.76 | 0.14 | — | 431  |
| General Office Building          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 4.09 | 13.9  | 18.0 | 0.42 | 0.01 | — | 31.5 |
| Total                            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 60.1 | 204   | 264  | 6.18 | 0.15 | — | 463  |
| Annual                           | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |

|                                  |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |         |   |      |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|---------|---|------|
| Unrefrigerated Warehouse-No Rail | — | — | — | — | — | — | — | — | — | — | — | 9.27 | 31.5 | 40.7 | 0.95 | 0.02    | — | 71.4 |
| General Office Building          | — | — | — | — | — | — | — | — | — | — | — | 0.68 | 2.30 | 2.97 | 0.07 | < 0.005 | — | 5.21 |
| Total                            | — | — | — | — | — | — | — | — | — | — | — | 9.95 | 33.8 | 43.7 | 1.02 | 0.02    | — | 76.6 |

#### 4.4.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use                         | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4  | N2O  | R | CO2e |
|----------------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|------|------|---|------|
| Daily, Summer (Max)              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Unrefrigerated Warehouse-No Rail | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 51.3 | 174   | 225  | 5.27 | 0.13 | — | 395  |
| General Office Building          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 3.72 | 12.6  | 16.4 | 0.38 | 0.01 | — | 28.7 |
| Total                            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 55.0 | 187   | 242  | 5.66 | 0.14 | — | 424  |
| Daily, Winter (Max)              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Unrefrigerated Warehouse-No Rail | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 51.3 | 174   | 225  | 5.27 | 0.13 | — | 395  |

|                                  |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |         |   |      |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|---------|---|------|
| General Office Building          | — | — | — | — | — | — | — | — | — | — | — | 3.72 | 12.6 | 16.4 | 0.38 | 0.01    | — | 28.7 |
| Total                            | — | — | — | — | — | — | — | — | — | — | — | 55.0 | 187  | 242  | 5.66 | 0.14    | — | 424  |
| Annual                           | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —       | — | —    |
| Unrefrigerated Warehouse-No Rail | — | — | — | — | — | — | — | — | — | — | — | 8.49 | 28.8 | 37.3 | 0.87 | 0.02    | — | 65.4 |
| General Office Building          | — | — | — | — | — | — | — | — | — | — | — | 0.62 | 2.09 | 2.71 | 0.06 | < 0.005 | — | 4.75 |
| Total                            | — | — | — | — | — | — | — | — | — | — | — | 9.11 | 30.9 | 40.0 | 0.94 | 0.02    | — | 70.1 |

## 4.5. Waste Emissions by Land Use

### 4.5.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use                         | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4  | N2O  | R | CO2e |
|----------------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|------|------|---|------|
| Daily, Summer (Max)              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Unrefrigerated Warehouse-No Rail | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 64.0 | 0.00  | 64.0 | 6.40 | 0.00 | — | 224  |
| General Office Building          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 6.01 | 0.00  | 6.01 | 0.60 | 0.00 | — | 21.0 |
| Total                            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 70.1 | 0.00  | 70.1 | 7.00 | 0.00 | — | 245  |

|                                  |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |      |   |      |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|------|---|------|
| Daily, Winter (Max)              | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —    |
| Unrefrigerated Warehouse-No Rail | — | — | — | — | — | — | — | — | — | — | — | 64.0 | 0.00 | 64.0 | 6.40 | 0.00 | — | 224  |
| General Office Building          | — | — | — | — | — | — | — | — | — | — | — | 6.01 | 0.00 | 6.01 | 0.60 | 0.00 | — | 21.0 |
| Total                            | — | — | — | — | — | — | — | — | — | — | — | 70.1 | 0.00 | 70.1 | 7.00 | 0.00 | — | 245  |
| Annual                           | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —    |
| Unrefrigerated Warehouse-No Rail | — | — | — | — | — | — | — | — | — | — | — | 10.6 | 0.00 | 10.6 | 1.06 | 0.00 | — | 37.1 |
| General Office Building          | — | — | — | — | — | — | — | — | — | — | — | 1.00 | 0.00 | 1.00 | 0.10 | 0.00 | — | 3.48 |
| Total                            | — | — | — | — | — | — | — | — | — | — | — | 11.6 | 0.00 | 11.6 | 1.16 | 0.00 | — | 40.6 |

#### 4.5.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use                         | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4  | N2O  | R | CO2e |
|----------------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|------|------|---|------|
| Daily, Summer (Max)              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Unrefrigerated Warehouse-No Rail | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 44.8 | 0.00  | 44.8 | 4.48 | 0.00 | — | 157  |

|                                  |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |      |   |      |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|------|---|------|
| General Office Building          | — | — | — | — | — | — | — | — | — | — | — | 4.21 | 0.00 | 4.21 | 0.42 | 0.00 | — | 14.7 |
| Total                            | — | — | — | — | — | — | — | — | — | — | — | 49.0 | 0.00 | 49.0 | 4.90 | 0.00 | — | 172  |
| Daily, Winter (Max)              | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —    |
| Unrefrigerated Warehouse-No Rail | — | — | — | — | — | — | — | — | — | — | — | 44.8 | 0.00 | 44.8 | 4.48 | 0.00 | — | 157  |
| General Office Building          | — | — | — | — | — | — | — | — | — | — | — | 4.21 | 0.00 | 4.21 | 0.42 | 0.00 | — | 14.7 |
| Total                            | — | — | — | — | — | — | — | — | — | — | — | 49.0 | 0.00 | 49.0 | 4.90 | 0.00 | — | 172  |
| Annual                           | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —    |
| Unrefrigerated Warehouse-No Rail | — | — | — | — | — | — | — | — | — | — | — | 7.42 | 0.00 | 7.42 | 0.74 | 0.00 | — | 26.0 |
| General Office Building          | — | — | — | — | — | — | — | — | — | — | — | 0.70 | 0.00 | 0.70 | 0.07 | 0.00 | — | 2.44 |
| Total                            | — | — | — | — | — | — | — | — | — | — | — | 8.12 | 0.00 | 8.12 | 0.81 | 0.00 | — | 28.4 |

## 4.6. Refrigerant Emissions by Land Use

### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|----------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
|----------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|

|                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |         |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|---------|
| Daily, Summer (Max)     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | —       | —       |
| General Office Building | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.03    | 0.03    |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.03    | 0.03    |
| Daily, Winter (Max)     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | —       | —       |
| General Office Building | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.03    | 0.03    |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.03    | 0.03    |
| Annual                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | —       | —       |
| General Office Building | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | < 0.005 | < 0.005 |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | < 0.005 | < 0.005 |

#### 4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use                | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R    | CO2e |
|-------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|------|------|
| Daily, Summer (Max)     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | —    | —    |
| General Office Building | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 0.03 | 0.03 |
| Total                   | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 0.03 | 0.03 |
| Daily, Winter (Max)     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | —    | —    |

|                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |         |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|---------|
| General Office Building | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.03    | 0.03    |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.03    | 0.03    |
| Annual                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | —       | —       |
| General Office Building | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | < 0.005 | < 0.005 |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | < 0.005 | < 0.005 |

## 4.7. Offroad Emissions By Equipment Type

### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Equipment Type      | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Annual              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

### 4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Equipment           | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Annual              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

## 4.8. Stationary Emissions By Equipment Type

### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Equipment Type      | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Annual              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

## 4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Equipment Type      | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Annual              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

## 4.9. User Defined Emissions By Equipment Type

## 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Equipment Type      | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

#### 4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Equipment Type      | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Annual              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Vegetation          | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual              | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

#### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use            | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Annual              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

#### 4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Species             | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Avoided             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sequest                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Remove<br>d               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —                         | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily,<br>Winter<br>(Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequest<br>ered           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Remove<br>d               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —                         | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual                    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequest<br>ered           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Remove<br>d               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —                         | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

## Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Vegetation          | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Annual              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

## 4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

## Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use            | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Annual              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

## 4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

## Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Species             | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Avoided             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Sequestered         | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Removed             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| —                   | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Avoided             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Sequestered         | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Removed             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| —                   | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Annual              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Avoided             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Sequestered         | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Subtotal            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Remove   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —        | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 5. Activity Data

### 5.1. Construction Schedule

| Phase Name            | Phase Type            | Start Date | End Date | Days Per Week | Work Days per Phase | Phase Description |
|-----------------------|-----------------------|------------|----------|---------------|---------------------|-------------------|
| Demolition            | Demolition            | 5/1/2023   | 7/1/2023 | 5.00          | 45.0                | —                 |
| Grading               | Grading               | 7/2/2023   | 8/2/2023 | 5.00          | 23.0                | —                 |
| Building Construction | Building Construction | 8/3/2023   | 7/3/2024 | 5.00          | 240                 | —                 |
| Paving                | Paving                | 6/2/2024   | 7/2/2024 | 5.00          | 22.0                | —                 |
| Architectural Coating | Architectural Coating | 5/1/2024   | 6/1/2024 | 5.00          | 23.0                | —                 |

### 5.2. Off-Road Equipment

#### 5.2.1. Unmitigated

| Phase Name | Equipment Type            | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|------------|---------------------------|-----------|-------------|----------------|---------------|------------|-------------|
| Demolition | Rubber Tired Dozers       | Diesel    | Average     | 2.00           | 8.00          | 367        | 0.40        |
| Demolition | Concrete/Industrial Saws  | Diesel    | Average     | 1.00           | 8.00          | 33.0       | 0.73        |
| Demolition | Excavators                | Diesel    | Average     | 3.00           | 8.00          | 36.0       | 0.38        |
| Grading    | Graders                   | Diesel    | Average     | 1.00           | 8.00          | 148        | 0.41        |
| Grading    | Excavators                | Diesel    | Average     | 1.00           | 8.00          | 36.0       | 0.38        |
| Grading    | Tractors/Loaders/Backhoes | Diesel    | Average     | 3.00           | 8.00          | 84.0       | 0.37        |
| Grading    | Rubber Tired Dozers       | Diesel    | Average     | 1.00           | 8.00          | 367        | 0.40        |

|                       |                           |        |         |      |      |      |      |
|-----------------------|---------------------------|--------|---------|------|------|------|------|
| Building Construction | Cranes                    | Diesel | Average | 1.00 | 7.00 | 367  | 0.29 |
| Building Construction | Forklifts                 | Diesel | Average | 3.00 | 8.00 | 82.0 | 0.20 |
| Building Construction | Generator Sets            | Diesel | Average | 1.00 | 8.00 | 14.0 | 0.74 |
| Building Construction | Welders                   | Diesel | Average | 1.00 | 8.00 | 46.0 | 0.45 |
| Building Construction | Tractors/Loaders/Backhoes | Diesel | Average | 3.00 | 7.00 | 84.0 | 0.37 |
| Paving                | Tractors/Loaders/Backhoes | Diesel | Average | 1.00 | 8.00 | 84.0 | 0.37 |
| Paving                | Cement and Mortar Mixers  | Diesel | Average | 2.00 | 6.00 | 10.0 | 0.56 |
| Paving                | Pavers                    | Diesel | Average | 1.00 | 8.00 | 81.0 | 0.42 |
| Paving                | Paving Equipment          | Diesel | Average | 2.00 | 6.00 | 89.0 | 0.36 |
| Paving                | Rollers                   | Diesel | Average | 2.00 | 6.00 | 36.0 | 0.38 |
| Architectural Coating | Air Compressors           | Diesel | Average | 1.00 | 6.00 | 37.0 | 0.48 |

### 5.2.2. Mitigated

| Phase Name            | Equipment Type            | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|-----------------------|---------------------------|-----------|-------------|----------------|---------------|------------|-------------|
| Demolition            | Rubber Tired Dozers       | Diesel    | Average     | 2.00           | 8.00          | 367        | 0.40        |
| Demolition            | Concrete/Industrial Saws  | Diesel    | Average     | 1.00           | 8.00          | 33.0       | 0.73        |
| Demolition            | Excavators                | Diesel    | Average     | 3.00           | 8.00          | 36.0       | 0.38        |
| Grading               | Graders                   | Diesel    | Average     | 1.00           | 8.00          | 148        | 0.41        |
| Grading               | Excavators                | Diesel    | Average     | 1.00           | 8.00          | 36.0       | 0.38        |
| Grading               | Tractors/Loaders/Backhoes | Diesel    | Average     | 3.00           | 8.00          | 84.0       | 0.37        |
| Grading               | Rubber Tired Dozers       | Diesel    | Average     | 1.00           | 8.00          | 367        | 0.40        |
| Building Construction | Cranes                    | Diesel    | Average     | 1.00           | 7.00          | 367        | 0.29        |
| Building Construction | Forklifts                 | Diesel    | Average     | 3.00           | 8.00          | 82.0       | 0.20        |
| Building Construction | Generator Sets            | Diesel    | Average     | 1.00           | 8.00          | 14.0       | 0.74        |

|                       |                           |        |         |      |      |      |      |
|-----------------------|---------------------------|--------|---------|------|------|------|------|
| Building Construction | Welders                   | Diesel | Average | 1.00 | 8.00 | 46.0 | 0.45 |
| Building Construction | Tractors/Loaders/Backhoes | Diesel | Average | 3.00 | 7.00 | 84.0 | 0.37 |
| Paving                | Tractors/Loaders/Backhoes | Diesel | Average | 1.00 | 8.00 | 84.0 | 0.37 |
| Paving                | Cement and Mortar Mixers  | Diesel | Average | 2.00 | 6.00 | 10.0 | 0.56 |
| Paving                | Pavers                    | Diesel | Average | 1.00 | 8.00 | 81.0 | 0.42 |
| Paving                | Paving Equipment          | Diesel | Average | 2.00 | 6.00 | 89.0 | 0.36 |
| Paving                | Rollers                   | Diesel | Average | 2.00 | 6.00 | 36.0 | 0.38 |
| Architectural Coating | Air Compressors           | Diesel | Average | 1.00 | 6.00 | 37.0 | 0.48 |

## 5.3. Construction Vehicles

### 5.3.1. Unmitigated

| Phase Name            | Trip Type    | One-Way Trips per Day | Miles per Trip | Vehicle Mix   |
|-----------------------|--------------|-----------------------|----------------|---------------|
| Demolition            | —            | —                     | —              | —             |
| Demolition            | Worker       | 15.0                  | 18.5           | LDA,LDT1,LDT2 |
| Demolition            | Vendor       | —                     | 10.2           | HHDT,MHDT     |
| Demolition            | Hauling      | 108                   | 20.0           | HHDT          |
| Demolition            | Onsite truck | —                     | —              | HHDT          |
| Grading               | —            | —                     | —              | —             |
| Grading               | Worker       | 15.0                  | 18.5           | LDA,LDT1,LDT2 |
| Grading               | Vendor       | —                     | 10.2           | HHDT,MHDT     |
| Grading               | Hauling      | 0.00                  | 20.0           | HHDT          |
| Grading               | Onsite truck | —                     | —              | HHDT          |
| Building Construction | —            | —                     | —              | —             |
| Building Construction | Worker       | 56.9                  | 18.5           | LDA,LDT1,LDT2 |

|                       |              |      |      |               |
|-----------------------|--------------|------|------|---------------|
| Building Construction | Vendor       | 22.7 | 10.2 | HHDT,MHDT     |
| Building Construction | Hauling      | 0.00 | 20.0 | HHDT          |
| Building Construction | Onsite truck | —    | —    | HHDT          |
| Paving                | —            | —    | —    | —             |
| Paving                | Worker       | 20.0 | 18.5 | LDA,LDT1,LDT2 |
| Paving                | Vendor       | —    | 10.2 | HHDT,MHDT     |
| Paving                | Hauling      | 0.00 | 20.0 | HHDT          |
| Paving                | Onsite truck | —    | —    | HHDT          |
| Architectural Coating | —            | —    | —    | —             |
| Architectural Coating | Worker       | 11.4 | 18.5 | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor       | —    | 10.2 | HHDT,MHDT     |
| Architectural Coating | Hauling      | 0.00 | 20.0 | HHDT          |
| Architectural Coating | Onsite truck | —    | —    | HHDT          |

### 5.3.2. Mitigated

| Phase Name            | Trip Type    | One-Way Trips per Day | Miles per Trip | Vehicle Mix   |
|-----------------------|--------------|-----------------------|----------------|---------------|
| Demolition            | —            | —                     | —              | —             |
| Demolition            | Worker       | 15.0                  | 18.5           | LDA,LDT1,LDT2 |
| Demolition            | Vendor       | —                     | 10.2           | HHDT,MHDT     |
| Demolition            | Hauling      | 108                   | 20.0           | HHDT          |
| Demolition            | Onsite truck | —                     | —              | HHDT          |
| Grading               | —            | —                     | —              | —             |
| Grading               | Worker       | 15.0                  | 18.5           | LDA,LDT1,LDT2 |
| Grading               | Vendor       | —                     | 10.2           | HHDT,MHDT     |
| Grading               | Hauling      | 0.00                  | 20.0           | HHDT          |
| Grading               | Onsite truck | —                     | —              | HHDT          |
| Building Construction | —            | —                     | —              | —             |

|                       |              |      |      |               |
|-----------------------|--------------|------|------|---------------|
| Building Construction | Worker       | 56.9 | 18.5 | LDA,LDT1,LDT2 |
| Building Construction | Vendor       | 22.7 | 10.2 | HHDT,MHDT     |
| Building Construction | Hauling      | 0.00 | 20.0 | HHDT          |
| Building Construction | Onsite truck | —    | —    | HHDT          |
| Paving                | —            | —    | —    | —             |
| Paving                | Worker       | 20.0 | 18.5 | LDA,LDT1,LDT2 |
| Paving                | Vendor       | —    | 10.2 | HHDT,MHDT     |
| Paving                | Hauling      | 0.00 | 20.0 | HHDT          |
| Paving                | Onsite truck | —    | —    | HHDT          |
| Architectural Coating | —            | —    | —    | —             |
| Architectural Coating | Worker       | 11.4 | 18.5 | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor       | —    | 10.2 | HHDT,MHDT     |
| Architectural Coating | Hauling      | 0.00 | 20.0 | HHDT          |
| Architectural Coating | Onsite truck | —    | —    | HHDT          |

## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

## 5.5. Architectural Coatings

| Phase Name            | Residential Interior Area Coated (sq ft) | Residential Exterior Area Coated (sq ft) | Non-Residential Interior Area Coated (sq ft) | Non-Residential Exterior Area Coated (sq ft) | Parking Area Coated (sq ft) |
|-----------------------|------------------------------------------|------------------------------------------|----------------------------------------------|----------------------------------------------|-----------------------------|
| Architectural Coating | 0.00                                     | 0.00                                     | 207,629                                      | 69,210                                       | —                           |

## 5.6. Dust Mitigation

### 5.6.1. Construction Earthmoving Activities

| Phase Name | Material Imported (cy) | Material Exported (cy) | Acres Graded (acres) | Material Demolished (Ton of Debris) | Acres Paved (acres) |
|------------|------------------------|------------------------|----------------------|-------------------------------------|---------------------|
| Demolition | 0.00                   | 0.00                   | 0.00                 | 19,500                              | —                   |
| Paving     | 0.00                   | 0.00                   | 0.00                 | 0.00                                | 0.00                |

### 5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

### 5.7. Construction Paving

| Land Use                         | Area Paved (acres) | % Asphalt |
|----------------------------------|--------------------|-----------|
| Unrefrigerated Warehouse-No Rail | 0.00               | 0%        |
| General Office Building          | 0.00               | 0%        |

### 5.8. Construction Electricity Consumption and Emissions Factors

#### kWh per Year and Emission Factor (lb/MWh)

| Year | kWh per Year | CO2 | CH4  | N2O     |
|------|--------------|-----|------|---------|
| 2023 | 0.00         | 532 | 0.03 | < 0.005 |
| 2024 | 0.00         | 532 | 0.03 | < 0.005 |

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

| Land Use Type       | Trips/Weekday | Trips/Saturday | Trips/Sunday | Trips/Year | VM/Weekday | VM/Saturday | VM/Sunday | VM/Year |
|---------------------|---------------|----------------|--------------|------------|------------|-------------|-----------|---------|
| Total all Land Uses | 282           | 282            | 282          | 102,930    | 2,567      | 2,567       | 2,567     | 936,955 |

#### 5.9.2. Mitigated

| Land Use Type | Trips/Weekday | Trips/Saturday | Trips/Sunday | Trips/Year | VM/Weekday | VM/Saturday | VM/Sunday | VM/Year |
|---------------|---------------|----------------|--------------|------------|------------|-------------|-----------|---------|
|---------------|---------------|----------------|--------------|------------|------------|-------------|-----------|---------|

|                     |     |     |     |         |       |       |       |         |
|---------------------|-----|-----|-----|---------|-------|-------|-------|---------|
| Total all Land Uses | 282 | 282 | 282 | 102,930 | 2,567 | 2,567 | 2,567 | 936,955 |
|---------------------|-----|-----|-----|---------|-------|-------|-------|---------|

## 5.10. Operational Area Sources

### 5.10.1. Hearths

#### 5.10.1.1. Unmitigated

#### 5.10.1.2. Mitigated

### 5.10.2. Architectural Coatings

| Residential Interior Area Coated (sq ft) | Residential Exterior Area Coated (sq ft) | Non-Residential Interior Area Coated (sq ft) | Non-Residential Exterior Area Coated (sq ft) | Parking Area Coated (sq ft) |
|------------------------------------------|------------------------------------------|----------------------------------------------|----------------------------------------------|-----------------------------|
| 0                                        | 0.00                                     | 207,629                                      | 69,210                                       | —                           |

### 5.10.3. Landscape Equipment

| Season      | Unit   | Value |
|-------------|--------|-------|
| Snow Days   | day/yr | 0.00  |
| Summer Days | day/yr | 250   |

### 5.10.4. Landscape Equipment - Mitigated

| Season      | Unit   | Value |
|-------------|--------|-------|
| Snow Days   | day/yr | 0.00  |
| Summer Days | day/yr | 250   |

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

## Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

| Land Use                         | Electricity (kWh/yr) | CO2 | CH4    | N2O    | Natural Gas (kBTU/yr) |
|----------------------------------|----------------------|-----|--------|--------|-----------------------|
| Unrefrigerated Warehouse-No Rail | 591,687              | 349 | 0.0330 | 0.0040 | 2,436,871             |
| General Office Building          | 213,843              | 349 | 0.0330 | 0.0040 | 304,158               |

## 5.11.2. Mitigated

## Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

| Land Use                         | Electricity (kWh/yr) | CO2 | CH4    | N2O    | Natural Gas (kBTU/yr) |
|----------------------------------|----------------------|-----|--------|--------|-----------------------|
| Unrefrigerated Warehouse-No Rail | 586,451              | 349 | 0.0330 | 0.0040 | 2,436,797             |
| General Office Building          | 210,933              | 349 | 0.0330 | 0.0040 | 300,341               |

## 5.12. Operational Water and Wastewater Consumption

## 5.12.1. Unmitigated

| Land Use                         | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|----------------------------------|-------------------------|--------------------------|
| Unrefrigerated Warehouse-No Rail | 29,234,394              | 6.48                     |
| General Office Building          | 2,132,805               | 0.00                     |

## 5.12.2. Mitigated

| Land Use                         | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|----------------------------------|-------------------------|--------------------------|
| Unrefrigerated Warehouse-No Rail | 26,761,164              | 2.83                     |
| General Office Building          | 1,942,985               | 0.00                     |

## 5.13. Operational Waste Generation

## 5.13.1. Unmitigated

| Land Use                         | Waste (ton/year) | Cogeneration (kWh/year) |
|----------------------------------|------------------|-------------------------|
| Unrefrigerated Warehouse-No Rail | 119              | —                       |
| General Office Building          | 11.2             | —                       |

## 5.13.2. Mitigated

| Land Use                         | Waste (ton/year) | Cogeneration (kWh/year) |
|----------------------------------|------------------|-------------------------|
| Unrefrigerated Warehouse-No Rail | 83.2             | —                       |
| General Office Building          | 7.81             | —                       |

## 5.14. Operational Refrigeration and Air Conditioning Equipment

## 5.14.1. Unmitigated

| Land Use Type           | Equipment Type                          | Refrigerant | GWP   | Quantity (kg) | Operations Leak Rate | Service Leak Rate | Times Serviced |
|-------------------------|-----------------------------------------|-------------|-------|---------------|----------------------|-------------------|----------------|
| General Office Building | Household refrigerators and/or freezers | R-134a      | 1,430 | 0.02          | 0.60                 | 0.00              | 1.00           |
| General Office Building | Other commercial A/C and heat pumps     | R-410A      | 2,088 | < 0.005       | 4.00                 | 4.00              | 18.0           |

## 5.14.2. Mitigated

| Land Use Type           | Equipment Type                          | Refrigerant | GWP   | Quantity (kg) | Operations Leak Rate | Service Leak Rate | Times Serviced |
|-------------------------|-----------------------------------------|-------------|-------|---------------|----------------------|-------------------|----------------|
| General Office Building | Household refrigerators and/or freezers | R-134a      | 1,430 | 0.02          | 0.60                 | 0.00              | 1.00           |
| General Office Building | Other commercial A/C and heat pumps     | R-410A      | 2,088 | < 0.005       | 4.00                 | 4.00              | 18.0           |

## 5.15. Operational Off-Road Equipment

## 5.15.1. Unmitigated

| Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|----------------|-----------|-------------|----------------|---------------|------------|-------------|
|----------------|-----------|-------------|----------------|---------------|------------|-------------|

## 5.15.2. Mitigated

| Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|----------------|-----------|-------------|----------------|---------------|------------|-------------|
|----------------|-----------|-------------|----------------|---------------|------------|-------------|

## 5.16. Stationary Sources

## 5.16.1. Emergency Generators and Fire Pumps

| Equipment Type | Fuel Type | Number per Day | Hours per Day | Hours per Year | Horsepower | Load Factor |
|----------------|-----------|----------------|---------------|----------------|------------|-------------|
|----------------|-----------|----------------|---------------|----------------|------------|-------------|

## 5.16.2. Process Boilers

| Equipment Type | Fuel Type | Number | Boiler Rating (MMBtu/hr) | Daily Heat Input (MMBtu/day) | Annual Heat Input (MMBtu/yr) |
|----------------|-----------|--------|--------------------------|------------------------------|------------------------------|
|----------------|-----------|--------|--------------------------|------------------------------|------------------------------|

## 5.17. User Defined

| Equipment Type | Fuel Type |
|----------------|-----------|
| —              | —         |

## 5.18. Vegetation

## 5.18.1. Land Use Change

## 5.18.1.1. Unmitigated

| Vegetation Land Use Type | Vegetation Soil Type | Initial Acres | Final Acres |
|--------------------------|----------------------|---------------|-------------|
|--------------------------|----------------------|---------------|-------------|

## 5.18.1.2. Mitigated

| Vegetation Land Use Type | Vegetation Soil Type | Initial Acres | Final Acres |
|--------------------------|----------------------|---------------|-------------|
|--------------------------|----------------------|---------------|-------------|

## 5.18.1. Biomass Cover Type

## 5.18.1.1. Unmitigated

| Biomass Cover Type | Initial Acres | Final Acres |
|--------------------|---------------|-------------|
|--------------------|---------------|-------------|

## 5.18.1.2. Mitigated

| Biomass Cover Type | Initial Acres | Final Acres |
|--------------------|---------------|-------------|
|--------------------|---------------|-------------|

## 5.18.2. Sequestration

## 5.18.2.1. Unmitigated

| Tree Type | Number | Electricity Saved (kWh/year) | Natural Gas Saved (btu/year) |
|-----------|--------|------------------------------|------------------------------|
|-----------|--------|------------------------------|------------------------------|

## 5.18.2.2. Mitigated

| Tree Type | Number | Electricity Saved (kWh/year) | Natural Gas Saved (btu/year) |
|-----------|--------|------------------------------|------------------------------|
|-----------|--------|------------------------------|------------------------------|

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

| Climate Hazard               | Result for Project Location | Unit                        |
|------------------------------|-----------------------------|-----------------------------|
| Temperature and Extreme Heat | 11.9                        | annual days of extreme heat |

|                       |      |                                            |
|-----------------------|------|--------------------------------------------|
| Extreme Precipitation | 4.35 | annual days with precipitation above 20 mm |
| Sea Level Rise        | 0.00 | meters of inundation depth                 |
| Wildfire              | 0.00 | annual hectares burned                     |

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

| Climate Hazard               | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|------------------------------|----------------|-------------------|-------------------------|---------------------|
| Temperature and Extreme Heat | 1              | 0                 | 0                       | N/A                 |
| Extreme Precipitation        | N/A            | N/A               | N/A                     | N/A                 |
| Sea Level Rise               | 1              | 0                 | 0                       | N/A                 |
| Wildfire                     | 1              | 0                 | 0                       | N/A                 |
| Flooding                     | N/A            | N/A               | N/A                     | N/A                 |
| Drought                      | N/A            | N/A               | N/A                     | N/A                 |
| Snowpack Reduction           | N/A            | N/A               | N/A                     | N/A                 |
| Air Quality Degradation      | 0              | 0                 | 0                       | N/A                 |

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

| Climate Hazard               | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|------------------------------|----------------|-------------------|-------------------------|---------------------|
| Temperature and Extreme Heat | 1              | 1                 | 1                       | 2                   |
| Extreme Precipitation        | N/A            | N/A               | N/A                     | N/A                 |
| Sea Level Rise               | 1              | 1                 | 1                       | 2                   |
| Wildfire                     | 1              | 1                 | 1                       | 2                   |
| Flooding                     | N/A            | N/A               | N/A                     | N/A                 |
| Drought                      | N/A            | N/A               | N/A                     | N/A                 |
| Snowpack Reduction           | N/A            | N/A               | N/A                     | N/A                 |
| Air Quality Degradation      | 1              | 1                 | 1                       | 2                   |

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

| Indicator           | Result for Project Census Tract |
|---------------------|---------------------------------|
| Exposure Indicators | —                               |
| AQ-Ozone            | 53.7                            |
| AQ-PM               | 87.8                            |
| AQ-DPM              | 84.0                            |
| Drinking Water      | 96.2                            |
| Lead Risk Housing   | 85.2                            |
| Pesticides          | 0.00                            |

|                                 |      |
|---------------------------------|------|
| Toxic Releases                  | 94.7 |
| Traffic                         | 94.0 |
| Effect Indicators               | —    |
| CleanUp Sites                   | 99.9 |
| Groundwater                     | 97.8 |
| Haz Waste Facilities/Generators | 99.8 |
| Impaired Water Bodies           | 0.00 |
| Solid Waste                     | 95.4 |
| Sensitive Population            | —    |
| Asthma                          | 49.5 |
| Cardio-vascular                 | 27.9 |
| Low Birth Weights               | 31.3 |
| Socioeconomic Factor Indicators | —    |
| Education                       | 89.5 |
| Housing                         | 52.1 |
| Linguistic                      | 66.6 |
| Poverty                         | 80.8 |
| Unemployment                    | 52.5 |

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

| Indicator     | Result for Project Census Tract |
|---------------|---------------------------------|
| Economic      | —                               |
| Above Poverty | 28.19196715                     |
| Employed      | 83.80597973                     |
| Median HI     | 35.78852817                     |
| Education     | —                               |

|                                              |             |
|----------------------------------------------|-------------|
| Bachelor's or higher                         | 22.99499551 |
| High school enrollment                       | 100         |
| Preschool enrollment                         | 30.45040421 |
| Transportation                               | —           |
| Auto Access                                  | 74.57975106 |
| Active commuting                             | 67.13717439 |
| Social                                       | —           |
| 2-parent households                          | 37.12305916 |
| Voting                                       | 11.02271269 |
| Neighborhood                                 | —           |
| Alcohol availability                         | 40.03592968 |
| Park access                                  | 62.20967535 |
| Retail density                               | 92.69857564 |
| Supermarket access                           | 72.321314   |
| Tree canopy                                  | 18.64493776 |
| Housing                                      | —           |
| Homeownership                                | 42.92313615 |
| Housing habitability                         | 24.13704607 |
| Low-inc homeowner severe housing cost burden | 22.64853073 |
| Low-inc renter severe housing cost burden    | 65.46901065 |
| Uncrowded housing                            | 14.34620814 |
| Health Outcomes                              | —           |
| Insured adults                               | 8.289490568 |
| Arthritis                                    | 38.0        |
| Asthma ER Admissions                         | 56.4        |
| High Blood Pressure                          | 42.5        |
| Cancer (excluding skin)                      | 49.7        |

|                                       |      |
|---------------------------------------|------|
| Asthma                                | 34.7 |
| Coronary Heart Disease                | 19.3 |
| Chronic Obstructive Pulmonary Disease | 22.0 |
| Diagnosed Diabetes                    | 26.4 |
| Life Expectancy at Birth              | 8.5  |
| Cognitively Disabled                  | 43.0 |
| Physically Disabled                   | 47.8 |
| Heart Attack ER Admissions            | 57.0 |
| Mental Health Not Good                | 29.3 |
| Chronic Kidney Disease                | 20.1 |
| Obesity                               | 33.5 |
| Pedestrian Injuries                   | 46.7 |
| Physical Health Not Good              | 24.5 |
| Stroke                                | 26.0 |
| Health Risk Behaviors                 | —    |
| Binge Drinking                        | 43.3 |
| Current Smoker                        | 35.6 |
| No Leisure Time for Physical Activity | 22.0 |
| Climate Change Exposures              | —    |
| Wildfire Risk                         | 0.0  |
| SLR Inundation Area                   | 0.0  |
| Children                              | 18.1 |
| Elderly                               | 49.5 |
| English Speaking                      | 22.8 |
| Foreign-born                          | 79.8 |
| Outdoor Workers                       | 7.8  |
| Climate Change Adaptive Capacity      | —    |

|                          |      |
|--------------------------|------|
| Impervious Surface Cover | 14.6 |
| Traffic Density          | 98.3 |
| Traffic Access           | 69.2 |
| Other Indices            | —    |
| Hardship                 | 77.7 |
| Other Decision Support   | —    |
| 2016 Voting              | 31.3 |

### 7.3. Overall Health & Equity Scores

| Metric                                                                              | Result for Project Census Tract |
|-------------------------------------------------------------------------------------|---------------------------------|
| CalEnviroScreen 4.0 Score for Project Location (a)                                  | 88.0                            |
| Healthy Places Index Score for Project Location (b)                                 | 37.0                            |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535)           | Yes                             |
| Project Located in a Low-Income Community (Assembly Bill 1550)                      | Yes                             |
| Project Located in a Community Air Protection Program Community (Assembly Bill 617) | No                              |

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

| Screen | Justification |
|--------|---------------|
|--------|---------------|

|                                           |                                                                                                                                                                         |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Construction: Construction Phases         | Construction scheduled based on responses to the construction questionnaire provided by applicant.                                                                      |
| Construction: Dust From Material Movement | As provided by the project applicant in their responses to the construction questionnaire, Crushed material on site will be used for fill. No import or export of soil. |

Source: EMFAC2021 (v1.0.2) Emissions Inventory  
Region Type: County  
Region: Orange  
Calendar Year: 2023, 2024  
Season: Annual  
Vehicle Classification: EMFAC202x Categories  
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

| Region | Calendar Year | Vehicle Category               | Model Year | Speed     | Fuel     | Population  | Total VMT  | Fuel Consumption | MPG (Derived) |
|--------|---------------|--------------------------------|------------|-----------|----------|-------------|------------|------------------|---------------|
| Orange | 2023          | All Other Buses                | Aggregate  | Aggregate | Diesel   | 344.1513551 | 19712.8856 | 2.113981463      | 9.33          |
| Orange | 2023          | LDA                            | Aggregate  | Aggregate | Gasoline | 1076181.788 | 42528216.7 | 1445.761525      | 29.42         |
| Orange | 2023          | LDA                            | Aggregate  | Aggregate | Diesel   | 3514.160863 | 107965.264 | 2.543520315      | 42.45         |
| Orange | 2023          | LDT1                           | Aggregate  | Aggregate | Gasoline | 99223.58776 | 3533281    | 142.9517238      | 24.72         |
| Orange | 2023          | LDT1                           | Aggregate  | Aggregate | Diesel   | 34.75929356 | 542.0339   | 0.022729025      | 23.85         |
| Orange | 2023          | LDT2                           | Aggregate  | Aggregate | Gasoline | 516653.7857 | 20968860.1 | 879.7268895      | 23.84         |
| Orange | 2023          | LDT2                           | Aggregate  | Aggregate | Diesel   | 2003.36011  | 85234.509  | 2.698305306      | 31.59         |
| Orange | 2023          | LHD1                           | Aggregate  | Aggregate | Gasoline | 41394.67541 | 1651744.12 | 120.8831513      | 13.66         |
| Orange | 2023          | LHD1                           | Aggregate  | Aggregate | Diesel   | 20789.38864 | 883471.714 | 43.06403864      | 20.52         |
| Orange | 2023          | LHD2                           | Aggregate  | Aggregate | Gasoline | 6757.483486 | 254111.74  | 21.16016017      | 12.01         |
| Orange | 2023          | LHD2                           | Aggregate  | Aggregate | Diesel   | 8706.571129 | 371136.298 | 21.53680933      | 17.23         |
| Orange | 2023          | MCY                            | Aggregate  | Aggregate | Gasoline | 49410.95758 | 315261.49  | 7.508408221      | 41.99         |
| Orange | 2023          | MDV1                           | Aggregate  | Aggregate | Gasoline | 323460.5581 | 12520789.9 | 644.9302498      | 19.41         |
| Orange | 2023          | MDV                            | Aggregate  | Aggregate | Diesel   | 4630.543523 | 185304.767 | 7.814914508      | 23.71         |
| Orange | 2023          | MH                             | Aggregate  | Aggregate | Gasoline | 6246.542371 | 60121.111  | 12.27338692      | 4.90          |
| Orange | 2023          | MH                             | Aggregate  | Aggregate | Diesel   | 2943.826344 | 29796.9549 | 2.935881151      | 10.15         |
| Orange | 2023          | Motor Coach                    | Aggregate  | Aggregate | Diesel   | 116.9385067 | 16660.7518 | 2.986737061      | 5.58          |
| Orange | 2023          | OBUS                           | Aggregate  | Aggregate | Gasoline | 876.9027969 | 37020.1996 | 7.203304301      | 5.14          |
| Orange | 2023          | PTO                            | Aggregate  | Aggregate | Diesel   | 0           | 44229.8772 | 9.021384546      | 4.90          |
| Orange | 2023          | SBUS                           | Aggregate  | Aggregate | Gasoline | 661.9447764 | 27987.084  | 3.359332103      | 8.87          |
| Orange | 2023          | SBUS                           | Aggregate  | Aggregate | Diesel   | 854.0901222 | 17539.3485 | 2.386688805      | 7.35          |
| Orange | 2023          | T6 CAIRP Class 4               | Aggregate  | Aggregate | Diesel   | 8.90805666  | 596.528237 | 0.065031625      | 9.17          |
| Orange | 2023          | T6 CAIRP Class 5               | Aggregate  | Aggregate | Diesel   | 11.95144074 | 818.416663 | 0.080094325      | 9.19          |
| Orange | 2023          | T6 CAIRP Class 6               | Aggregate  | Aggregate | Diesel   | 37.75149226 | 2137.20524 | 0.229391797      | 9.32          |
| Orange | 2023          | T6 CAIRP Class 7               | Aggregate  | Aggregate | Diesel   | 65.05836483 | 13401.9762 | 1.352703639      | 9.91          |
| Orange | 2023          | T6 Instate Delivery Class 4    | Aggregate  | Aggregate | Diesel   | 2476.152649 | 85240.9827 | 9.680704091      | 8.81          |
| Orange | 2023          | T6 Instate Delivery Class 5    | Aggregate  | Aggregate | Diesel   | 1996.835467 | 69504.3054 | 7.862891         | 8.84          |
| Orange | 2023          | T6 Instate Delivery Class 6    | Aggregate  | Aggregate | Diesel   | 6209.602575 | 214969.055 | 24.41743892      | 8.80          |
| Orange | 2023          | T6 Instate Delivery Class 7    | Aggregate  | Aggregate | Diesel   | 812.0083033 | 44926.9356 | 4.871872986      | 9.22          |
| Orange | 2023          | T6 Instate Other Class 4       | Aggregate  | Aggregate | Diesel   | 2132.635555 | 90267.7971 | 10.18413389      | 8.86          |
| Orange | 2023          | T6 Instate Other Class 5       | Aggregate  | Aggregate | Diesel   | 4921.508542 | 218523.764 | 24.68124259      | 8.85          |
| Orange | 2023          | T6 Instate Other Class 6       | Aggregate  | Aggregate | Diesel   | 4076.739501 | 178129.842 | 20.08741131      | 8.87          |
| Orange | 2023          | T6 Instate Other Class 7       | Aggregate  | Aggregate | Diesel   | 1994.734146 | 98900.7207 | 10.97454034      | 9.01          |
| Orange | 2023          | T6 Instate Tractor Class 6     | Aggregate  | Aggregate | Diesel   | 30.75606508 | 1625.12245 | 0.179804649      | 9.04          |
| Orange | 2023          | T6 Instate Tractor Class 7     | Aggregate  | Aggregate | Diesel   | 1221.714558 | 80005.9347 | 8.352061221      | 9.58          |
| Orange | 2023          | T6 OOS Class 4                 | Aggregate  | Aggregate | Diesel   | 5.223362554 | 346.760549 | 0.03787763       | 9.18          |
| Orange | 2023          | T6 OOS Class 5                 | Aggregate  | Aggregate | Diesel   | 6.978410097 | 475.693118 | 0.051769842      | 9.19          |
| Orange | 2023          | T6 OOS Class 6                 | Aggregate  | Aggregate | Diesel   | 22.12160974 | 1242.99973 | 0.133319139      | 9.32          |
| Orange | 2023          | T6 OOS Class 7                 | Aggregate  | Aggregate | Diesel   | 35.90090173 | 9038.15367 | 0.9072807        | 9.96          |
| Orange | 2023          | T6 Public Class 4              | Aggregate  | Aggregate | Diesel   | 133.6610867 | 4568.76233 | 0.540348939      | 8.46          |
| Orange | 2023          | T6 Public Class 5              | Aggregate  | Aggregate | Diesel   | 115.4741945 | 4158.67368 | 0.483352249      | 8.60          |
| Orange | 2023          | T6 Public Class 6              | Aggregate  | Aggregate | Diesel   | 198.9239513 | 6865.52188 | 0.815293808      | 8.42          |
| Orange | 2023          | T6 Public Class 7              | Aggregate  | Aggregate | Diesel   | 357.0725556 | 15525.5486 | 1.809403909      | 8.58          |
| Orange | 2023          | T6 Utility Class 5             | Aggregate  | Aggregate | Diesel   | 106.5747691 | 4335.20579 | 0.463566082      | 9.35          |
| Orange | 2023          | T6 Utility Class 6             | Aggregate  | Aggregate | Diesel   | 20.16560355 | 814.579563 | 0.086708077      | 9.39          |
| Orange | 2023          | T6 Utility Class 7             | Aggregate  | Aggregate | Diesel   | 22.96641916 | 1131.14166 | 0.120166728      | 9.41          |
| Orange | 2023          | T6T5                           | Aggregate  | Aggregate | Gasoline | 7581.400632 | 413802.285 | 80.40931741      | 5.15          |
| Orange | 2023          | T7 CAIRP Class 8               | Aggregate  | Aggregate | Diesel   | 1064.693157 | 220321.68  | 35.90168739      | 6.14          |
| Orange | 2023          | T7 NNOS Class 8                | Aggregate  | Aggregate | Diesel   | 960.8288702 | 262508.604 | 42.36637626      | 6.20          |
| Orange | 2023          | T7 NOOS Class 8                | Aggregate  | Aggregate | Diesel   | 402.0228659 | 95317.1438 | 15.5618677       | 6.13          |
| Orange | 2023          | T7 POLA Class 8                | Aggregate  | Aggregate | Diesel   | 1340.221874 | 174632.599 | 29.05312492      | 6.01          |
| Orange | 2023          | T7 Public Class 8              | Aggregate  | Aggregate | Diesel   | 810.6537496 | 32521.0107 | 5.690186271      | 5.72          |
| Orange | 2023          | T7 Single Concrete/Transit Mix | Aggregate  | Aggregate | Diesel   | 280.7241034 | 19917.7837 | 3.301971841      | 6.03          |
| Orange | 2023          | T7 Single Dump Class 8         | Aggregate  | Aggregate | Diesel   | 977.975946  | 60029.8919 | 10.09649412      | 5.95          |
| Orange | 2023          | T7 Single Other Class 8        | Aggregate  | Aggregate | Diesel   | 2168.836696 | 116828.905 | 21.01937504      | 6.03          |
| Orange | 2023          | T7 SWCV Class 8                | Aggregate  | Aggregate | Diesel   | 294.5301242 | 19124.7737 | 7.151952364      | 2.67          |
| Orange | 2023          | T7 Tractor Class 8             | Aggregate  | Aggregate | Diesel   | 2334.218312 | 188909.778 | 30.81332335      | 6.13          |
| Orange | 2023          | T7 Utility Class 8             | Aggregate  | Aggregate | Diesel   | 74.70038187 | 3442.98597 | 0.55695995       | 6.18          |
| Orange | 2023          | T7T5                           | Aggregate  | Aggregate | Gasoline | 8.73145324  | 606.548947 | 0.147681734      | 4.11          |
| Orange | 2023          | UBUS                           | Aggregate  | Aggregate | Gasoline | 255.1048963 | 42087.5335 | 3.65617145       | 11.51         |
| Orange | 2024          | All Other Buses                | Aggregate  | Aggregate | Diesel   | 350.3073076 | 19761.5225 | 2.114742998      | 9.34          |
| Orange | 2024          | LDA                            | Aggregate  | Aggregate | Gasoline | 1065891.765 | 42285386.1 | 1408.433705      | 30.02         |
| Orange | 2024          | LDA                            | Aggregate  | Aggregate | Diesel   | 3266.416655 | 98494.1446 | 2.302447572      | 42.78         |
| Orange | 2024          | LDT1                           | Aggregate  | Aggregate | Gasoline | 97776.1357  | 3495530.37 | 138.9785117      | 25.15         |
| Orange | 2024          | LDT1                           | Aggregate  | Aggregate | Diesel   | 31.55516109 | 483.89372  | 0.020274107      | 23.87         |
| Orange | 2024          | LDT2                           | Aggregate  | Aggregate | Gasoline | 523220.8345 | 21321177.5 | 872.8633551      | 24.43         |
| Orange | 2024          | LDT2                           | Aggregate  | Aggregate | Diesel   | 2063.415332 | 86972.7445 | 2.705696258      | 32.14         |
| Orange | 2024          | LHD1                           | Aggregate  | Aggregate | Gasoline | 41326.42062 | 1661881.96 | 118.308255       | 14.05         |
| Orange | 2024          | LHD1                           | Aggregate  | Aggregate | Diesel   | 21602.56979 | 922158.823 | 44.51642193      | 20.72         |
| Orange | 2024          | LHD2                           | Aggregate  | Aggregate | Gasoline | 6721.102951 | 253091.63  | 20.60060746      | 12.29         |
| Orange | 2024          | LHD2                           | Aggregate  | Aggregate | Diesel   | 9173.234432 | 391527.703 | 22.43146289      | 17.45         |
| Orange | 2024          | MCY                            | Aggregate  | Aggregate | Gasoline | 50238.99817 | 321576.552 | 7.62289471       | 42.19         |
| Orange | 2024          | MDV                            | Aggregate  | Aggregate | Gasoline | 324536.5237 | 12620485.4 | 635.3871153      | 19.86         |
| Orange | 2024          | MDV                            | Aggregate  | Aggregate | Diesel   | 4623.453247 | 183419.834 | 7.625165924      | 24.05         |
| Orange | 2024          | MH                             | Aggregate  | Aggregate | Gasoline | 6023.474387 | 58495.5598 | 11.96604106      | 4.89          |
| Orange | 2024          | MH                             | Aggregate  | Aggregate | Diesel   | 2969.063612 | 29761.9465 | 2.928854631      | 10.16         |
| Orange | 2024          | Motor Coach                    | Aggregate  | Aggregate | Diesel   | 119.8209857 | 16717.6059 | 2.986440651      | 5.60          |
| Orange | 2024          | OBUS                           | Aggregate  | Aggregate | Gasoline | 859.2545526 | 35950.2379 | 6.944890861      | 5.18          |
| Orange | 2024          | PTO                            | Aggregate  | Aggregate | Diesel   | 0           | 44612.7675 | 9.011873802      | 4.95          |
| Orange | 2024          | SBUS                           | Aggregate  | Aggregate | Gasoline | 669.6299914 | 30756.6594 | 3.39846975       | 8.90          |
| Orange | 2024          | SBUS                           | Aggregate  | Aggregate | Diesel   | 821.2477494 | 16793.0153 | 2.776611833      | 7.98          |
| Orange | 2024          | T6 CAIRP Class 4               | Aggregate  | Aggregate | Diesel   | 9.060919927 | 599.330203 | 0.064929034      | 9.23          |
| Orange | 2024          | T6 CAIRP Class 5               | Aggregate  | Aggregate | Diesel   | 12.08490979 | 822.778676 | 0.089116521      | 9.23          |
| Orange | 2024          | T6 CAIRP Class 6               | Aggregate  | Aggregate | Diesel   | 39.55945946 | 2143.19864 | 0.228564439      | 9.38          |
| Orange | 2024          | T6 CAIRP Class 7               | Aggregate  | Aggregate | Diesel   | 66.57538332 | 13491.8568 | 1.347277156      | 10.01         |
| Orange | 2024          | T6 Instate Delivery Class 4    | Aggregate  | Aggregate | Diesel   | 2517.503882 | 85865.9454 | 9.740764994      | 8.82          |
| Orange | 2024          | T6 Instate Delivery Class 5    | Aggregate  | Aggregate | Diesel   | 2034.209318 | 69987.8946 | 7.909641767      | 8.85          |
| Orange | 2024          | T6 Instate Delivery Class 6    | Aggregate  | Aggregate | Diesel   | 6321.506783 | 216636.194 | 24.58946624      | 8.81          |
| Orange | 2024          | T6 Instate Delivery Class 7    | Aggregate  | Aggregate | Diesel   | 818.5953979 | 45349.0492 | 4.918788042      | 9.22          |
| Orange | 2024          | T6 Instate Other Class 4       | Aggregate  | Aggregate | Diesel   | 2147.558755 | 90934.8274 | 10.26451298      | 8.86          |
| Orange | 2024          | T6 Instate Other Class 5       | Aggregate  | Aggregate | Diesel   | 5008.917816 | 220256.623 | 24.88078886      | 8.85          |
| Orange | 2024          | T6 Instate Other Class 6       | Aggregate  | Aggregate | Diesel   | 4138.433981 | 179486.455 | 20.23472632      | 8.87          |
| Orange | 2024          | T6 Instate Other Class 7       | Aggregate  | Aggregate | Diesel   | 2060.196214 | 99699.3222 | 11.04811795      | 9.02          |
| Orange | 2024          | T6 Instate Tractor Class 6     | Aggregate  | Aggregate | Diesel   | 31.10983311 | 1641.93936 | 0.181722674      | 9.04          |
| Orange | 2024          | T6 Instate Tractor Class 7     | Aggregate  | Aggregate | Diesel   | 1260.719584 | 80675.0067 | 8.384010854      | 9.62          |
| Orange | 2024          | T6 OOS Class 4                 | Aggregate  | Aggregate | Diesel   | 5.337059374 | 350.171088 | 0.037761042      | 9.27          |
| Orange | 2024          | T6 OOS Class 5                 | Aggregate  | Aggregate | Diesel   | 7.085523768 | 480.371564 | 0.051818199      | 9.27          |
| Orange | 2024          | T6 OOS Class 6                 | Aggregate  | Aggregate | Diesel   | 23.30373401 | 1255.22516 | 0.133001344      | 9.44          |
| Orange | 2024          | T6 OOS Class 7                 | Aggregate  | Aggregate | Diesel   | 36.5205093  | 9127.04778 | 0.904804874      | 10.09         |
| Orange | 2024          | T6 Public Class 4              | Aggregate  | Aggregate | Diesel   | 131.4948415 | 4531.61184 | 0.53261314       | 8.51          |
| Orange | 2024          | T6 Public Class 5              | Aggregate  | Aggregate | Diesel   | 115.0623611 | 4141.1607  | 0.479878815      | 8.63          |
| Orange | 2024          | T6 Public Class 6              | Aggregate  | Aggregate | Diesel   | 195.5636311 | 6814.37754 | 0.80369886       | 8.48          |
| Orange | 2024          | T6 Public Class 7              | Aggregate  | Aggregate | Diesel   | 347.6409066 | 15355.5417 | 1.772860026      | 8.66          |
| Orange | 2024          | T6 Utility Class 5             | Aggregate  | Aggregate | Diesel   | 106.4465252 | 4321.63876 | 0.462355913      | 9.35          |
| Orange | 2024          | T6 Utility Class 6             | Aggregate  | Aggregate | Diesel   | 20.1109506  | 812.275732 | 0.086570703      | 9.39          |
| Orange | 2024          | T6 Utility Class 7             | Aggregate  | Aggregate | Diesel   | 22.28474918 | 1128.388   | 0.119736904      | 9.42          |
| Orange | 2024          | T6T5                           | Aggregate  | Aggregate | Gasoline | 7429.609302 | 397726.423 | 77.00341058      | 5.17          |
| Orange | 2024          | T7 CAIRP Class 8               | Aggregate  | Aggregate | Diesel   | 1086.955178 | 222819.898 | 35.89004102      | 6.21          |
| Orange | 2024          | T7 NNOS Class 8                | Aggregate  | Aggregate | Diesel   | 980.7338213 | 266621.857 | 42.18067921      | 6.32          |
| Orange | 2024          | T7 NOOS Class 8                | Aggregate  | Aggregate | Diesel   | 412.9177816 | 96810.6701 | 15.572463        | 6.22          |
| Orange | 2024          | T7 POLA Class 8                | Aggregate  | Aggregate | Diesel   | 1446.809942 | 181915.959 | 30.37534344      | 5.99          |
| Orange | 2024          | T7 Public Class 8              | Aggregate  | Aggregate | Diesel   | 788.8911969 | 31718.2653 | 5.516769438      | 5.75          |
| Orange | 2024          | T7 Single Concrete/Transit Mix | Aggregate  | Aggregate | Diesel   | 284.2658029 | 19859.9923 | 3.267425998      | 6.08          |
| Orange | 2024          | T7 Single Dump Class 8         | Aggregate  | Aggregate | Diesel   | 1002.222664 | 60384.3462 | 10.18782142      | 5.93          |
| Orange | 2024          | T7 Single Other Class 8        | Aggregate  | Aggregate | Diesel   | 2276.349601 | 128098.284 | 21.1860493       | 6.05          |
| Orange | 2024          | T7 SWCV Class 8                | Aggregate  | Aggregate | Diesel   | 267.6922451 | 17383.1781 | 6.473220832      | 2.69          |
| Orange | 2024          | T7 Tractor Class 8             | Aggregate  | Aggregate | Diesel   | 2470.126358 | 191485.546 | 31.06851525      | 6.16          |
| Orange | 2024          | T7 Utility Class 8             | Aggregate  | Aggregate | Diesel   | 76.54399619 | 3450.32074 | 0.552726459      | 6.19          |
| Orange | 2024          | T7T5                           | Aggregate  | Aggregate | Gasoline |             |            |                  |               |

On-road Mobile (Operational) Energy Usage

Note: Assumes that all vehicles that are generated as part of proposed project use gasoline as a fuel source (for simplicity), since the vast majority of vehicles generated by the project would use gasoline.

Unmitigated:

Step 1:

Therefore:  
Average Daily VMT:  
2567 Source: City of Fullerton (TAPP Worksheet)

Step 2:

Given:

| Fleet Mix (Source: CalEEMod) |       |        |        |       |       |       |       |       |       |       |       |       |
|------------------------------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| LDA                          | LDT1  | LDT2   | MDV    | LHD1  | LHD2  | MHD   | HHD   | OBUS  | UBUS  | MCY   | SBUS  | MH    |
| 54.62%                       | 5.95% | 18.59% | 12.79% | 2.43% | 0.66% | 1.45% | 0.49% | 0.07% | 0.04% | 2.46% | 0.07% | 0.39% |

And:

| Gasoline MPG Factors for each Vehicle Class - Year 2024 (EMFAC2021 Output) |       |       |       |       |       |     |     |      |      |       |       |      |
|----------------------------------------------------------------------------|-------|-------|-------|-------|-------|-----|-----|------|------|-------|-------|------|
| LDA                                                                        | LDT1  | LDT2  | MDV   | LHD1  | LHD2  | MHD | HHD | OBUS | UBUS | MCY   | SBUS  | MH   |
| 30.02                                                                      | 25.15 | 24.43 | 19.86 | 14.05 | 12.29 | N/A | N/A |      | 5.18 | 12.21 | 42.19 | 8.90 |

Therefore:  
Weighted Average MPG Factors  
Gasoline: 26.5

Step 3:

Therefore:  
97 daily gallons of gasoline  
or  
35,399 annual gallons of gasoline

Off-road (i.e. On-site) Mobile (Construction) Energy Usage

Note: For the sake of simplicity, and as a conservative estimation, it was assumed that all off-road vehicles use diesel fuel as an energy source.

|                      |           |             |                                 |                                                                                                                           |
|----------------------|-----------|-------------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Given Factor:        | 377.9     | metric tons | CO2                             | (provided in CalEEMod Output File)                                                                                        |
| Conversion Factor:   | 2204.6262 | pounds      | per metric ton                  |                                                                                                                           |
| Intermediate Result: | 833,209   | pounds      | CO2                             |                                                                                                                           |
| Conversion Factor:   | 22.38     | pounds      | CO2 per 1 gallon of diesel fuel | Source: U.S. EIA, 2016                                                                                                    |
| Final Result:        | 37,230    | gallons     | diesel fuel                     | <a href="http://www.eia.gov/tools/faqs/faq.cfm?id=307&amp;t=11">http://www.eia.gov/tools/faqs/faq.cfm?id=307&amp;t=11</a> |

| Mitigated Onsite Scenario    | Total CO2 (MT/yr) (provided in CalEEMod Output File) |
|------------------------------|------------------------------------------------------|
| Demolition                   | 70.2                                                 |
| Grading                      | 31.0                                                 |
| Building Construction - 2023 | 117.7                                                |
| Building Construction - 2024 | 144.2                                                |
| Paving                       | 13.5                                                 |
| Architectural Coatings       | 1.4                                                  |

On-road Mobile (Construction) Energy Usage - Demolition

Note: Year 2022 MPG factors were derived for construction-related energy consumption (for the sake of a conservative estimate).

Step 1:

Total Daily Worker Trips (CalEEMod output)

15

Worker Trip Length (miles) (CalEEMod output)

18.5

Therefore:

Average Worker Daily VMT:

278

Step 2:

Given:

Assumed Fleet Mix for Workers

(Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

LDA

LDT1

LDT2

0.5

0.25

0.25

And:

Gasoline MPG Factors for each Vehicle Class - Year 2023 (EMFAC2021 output)

LDA

LDT1

LDT2

29.42

24.72

23.84

Therefore:

Weighted Average Worker MPG Factor

26.85

Step 3:

Therefore:

10 Worker daily gallons of gasoline (all workers)

Step 4:

45 # of Days (CalEEMod ouput)

Result:

465

Total gallons of gasoline (all workers)

Total Hauler Trips (CalEEMod Output)

108

Note: Hauler trips are total values (not daily).

Hauler Trip Length (miles) (CalEEMod Output)

20

Average Hauler Daily VMT:

2,167

Fleet Mix for Workers (CalEEMod Output)

MHD

HHD

0%

100%

Diesel MPG Factors for each Vehicle Class - Year 2022 (EMFAC2021 output)

MHD

HHD

7.47

5.97

Therefore:

Weighted Average Hauler (Diesel) MPG Factor

5.97

Therefore:

363 Worker daily gallons of gasoline (all workers)

Result:

363

Hauler gallons of diesel

## On-road Mobile (Construction) Energy Usage - Grading

Note: Year 2022 MPG factors were derived for construction-related energy consumption (for the sake of a conservative estimate).

Step 1: **Total Daily Worker Trips (CalEEMod Output)**

15

**Worker Trip Length (miles) (CalEEMod Output)**

18.5

Therefore:

**Average Worker Daily VMT:**

278

Step 2:

Given:

**Assumed Fleet Mix for Workers**

(Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

| LDA | LDT1 | LDT2 |
|-----|------|------|
| 0.5 | 0.25 | 0.25 |

And:

**Gasoline MPG Factors for each Vehicle Class (from EMFAC2021) - Year 2022**

| LDA   | LDT1  | LDT2  |
|-------|-------|-------|
| 29.42 | 24.72 | 23.84 |

Therefore:

**Weighted Average Worker MPG Factor**

26.85

Step 3:

**Therefore:**

10 Worker daily gallons of gasoline

Step 4:

23 # of Days (CalEEMod Output)

Therefore:

**Result:** 238 Total gallons of gasoline

## On-road Mobile (Construction) Energy Usage - Building Construction

Note: Year 2022 MPG factors were derived for construction-related energy consumption (for the sake of a conservative estimate).

Step 1: **Total Daily Worker Trips (CalEEMod Output)**

57

**Total Daily Vendor Trips (CalEEMod Output)**

23

**Worker Trip Length (miles) (CalEEMod Output)**

18.5

**Vendor Trip Length (miles) (CalEEMod Output)**

10.2

Therefore:

**Average Worker Daily VMT:**

1,053

**Average Vendor Daily VMT:**

231

Step 2: **Given:**

**Assumed Fleet Mix for Workers** (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

| LDA | LDT1 | LDT2 |
|-----|------|------|
| 0.5 | 0.25 | 0.25 |

**Assumed Fleet Mix for Vendors**

**Fleet Mix for Workers (CalEEMod Output)**

| MHD | HHD  |
|-----|------|
| 0%  | 100% |

And:

**MPG Factors for each Vehicle Class (from EMFAC2021) - Year 2022**

**Gasoline:**

| LDA   | LDT1  | LDT2  |
|-------|-------|-------|
| 29.42 | 24.72 | 23.84 |

**Diesel:**

| MHD  | HHD  |
|------|------|
| 7.47 | 5.97 |

Therefore:

**Weighted Average Worker (Gasoline) MPG Factor**

26.85

**Weighted Average Vendor (Diesel) MPG Factor**

5.97

Step 3: **Therefore:**

39 Worker daily gallons of gasoline

**Therefore:**

39 Vendor daily gallons of diesel

Step 4: **240 # of Days (CalEEMod Output)**

Therefore:

9,417 Total gallons of gasoline

Therefore:

9,301 Total gallons of diesel

## On-road Mobile (Construction) Energy Usage - Paving

Note: Year 2022 MPG factors were derived for construction-related energy consumption (for the sake of a conservative estimate).

Step 1: **Total Daily Worker Trips (CalEEMod Output)**

20

**Worker Trip Length (miles) (CalEEMod Output)**

18.5

Therefore:

**Average Worker Daily VMT:**

370

Step 2: Given:

**Assumed Fleet Mix for Workers** (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

| LDA | LDT1 | LDT2 |
|-----|------|------|
| 0.5 | 0.25 | 0.25 |

And:

**Gasoline MPG Factors for each Vehicle Class (from EMFAC2021) - Year 2022**

| LDA   | LDT1  | LDT2  |
|-------|-------|-------|
| 29.42 | 24.72 | 23.84 |

Therefore:

**Weighted Average Worker MPG Factor**

26.8

Step 3: **Therefore:**

14 Worker daily gallons of gasoline

Step 4: 22 # of Days (CalEEMod Output)

Therefore:

**Result:** 303 Total gallons of gasoline

## On-road Mobile (Construction) Energy Usage - Architectural Coating

Note: Year 2022 MPG factors were derived for construction-related energy consumption (for the sake of a conservative estimate).

Step 1: **Total Daily Worker Trips (CalEEMod Output)**

11

**Worker Trip Length (miles) (CalEEMod Output)**

18.5

Therefore:

**Average Worker Daily VMT:**

211

Step 2: Given:

**Assumed Fleet Mix for Workers** (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

| LDA | LDT1 | LDT2 |
|-----|------|------|
| 0.5 | 0.25 | 0.25 |

And:

**Gasoline MPG Factors for each Vehicle Class (EMFAC2021 Output) - Year 2022**

| LDA   | LDT1  | LDT2  |
|-------|-------|-------|
| 29.42 | 24.72 | 23.84 |

Therefore:

**Weighted Average Worker MPG Factor**

26.8

Step 3: **Therefore:**

8 Worker daily gallons of gasoline

Step 4: 23 # of Days (CalEEMod Output)

Therefore:

**Result:** 180 Total gallons of gasoline

# ANALYSIS OF PUBLIC HEALTH RISKS

FOR THE

1500 S. RAYMOND AVENUE INDUSTRIAL PROJECT

FULLERTON, CALIFORNIA

MAY 22, 2023



**PROJECT TITLE**

1500 S. Raymond Avenue Industrial Project

**PREPARED BY:**

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APPENDIX 1: EMISSION RATES AND EMISSIONS CALCULATIONS

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## INTRODUCTION

This Health Risk Assessment (HRA) was prepared to assess potential public health risks that may be present at the proposed 1500 S. Raymond Avenue Industrial Project in the city of Fullerton, Orange County, California. This report analyzes the emissions of toxic air pollutants within the project area and their impacts on public health.

## SCOPE OF RISK ASSESSMENT

Preparation of risk assessments is a three-step process. The first step is to identify potential contaminants that may lead to public health risks. The second step is to assess the magnitude of contaminants that may reach the public (exposure assessment). The last step is to calculate the magnitude of the health risk as a result of exposure to harmful contaminants on the basis of the toxicology of the contaminants.

The Office of Environmental Health Hazard Assessment and the South Coast Air Quality Management District (SCAQMD) provide guidance on the procedures that should be used, including, toxicological data for individual contaminants. While this risk assessment uses certain procedures and data from these Guidelines, this assessment is not intended to satisfy the reporting requirements under AB-2588 “Air Toxics” Hot Spots program.

The health risks that are evaluated in this study include:

- Residential Cancer Risk (30-year exposure);
- Workplace Cancer Risk (25-year exposure; start at age 16); and
- Acute and Chronic Hazard Indices.

The 30-year risk applies to residential areas where exposure may potentially occur 24 hours/day, 365 days/year. The 25-year risk is applicable to workplace exposure and therefore accounts for a reduced exposure for the fact that individuals typically would be exposed only during working hours. Non-cancer risks can be described as acute (short-term, exposure) or chronic health impacts.

## SIGNIFICANCE CRITERIA

The following significance criteria shown in Table 1, based on guidance from the SCAQMD, are used in this report to assess the significance of public health risks.

**TABLE 1: THRESHOLDS OF SIGNIFICANCE FOR PUBLIC HEALTH RISKS**

| <i>Risk Metric</i>                          | <i>Significance Threshold</i>                  |
|---------------------------------------------|------------------------------------------------|
| Residential Cancer Risk                     | 10 per million                                 |
| Workplace Cancer Risk                       | 10 per million                                 |
| Chronic and Acute non-cancer hazard Indices | non-cancer health hazard exposure index of 1.0 |

SOURCE: SCAQMD, 2015.

As shown in Table 1, a project that contributes a cancer risk in excess of 10 new cases in a population of one million persons at identified receptors, or a non-cancer hazard index of greater than or equal to 1.0 would be considered to have a significant project-level impact.

## **EMISSION SOURCES AND EXPOSURE**

The source of toxic air pollutants (TACs) from the proposed Project is diesel particulate matter (DPM) from on-site truck idle and mobile emissions, and off-site mobile emissions. The Project would not generate truck trips that contain active Truck Refrigeration Units (TRUs), since uses requiring refrigeration would not occur within the site (as provided in Section 2.0 Project Description of the IS/MND).

Based on numerous studies by the California Air Resources Board (ARB), DPM represents the largest single contributor to public health risks. Additionally, in its comprehensive assessment of diesel exhaust, OEHHA analyzed more than 30 studies of people who worked around diesel equipment, including truck drivers, railroad workers, and equipment operators. The studies showed these workers were more likely to develop lung cancer than workers who were not exposed to diesel emissions. These studies provide strong evidence that long-term occupational exposure to diesel exhaust increases the risk of lung cancer. Exposure to diesel exhaust can have immediate health effects. Diesel exhaust can irritate the eyes, nose, throat, and lungs, and it can cause coughs, headaches, lightheadedness, and nausea. In studies with human volunteers, diesel exhaust particles made people with allergies more susceptible to the materials to which they are allergic, such as dust and pollen. Exposure to diesel exhaust also causes inflammation in the lungs, which may aggravate chronic respiratory symptoms and increase the frequency or intensity of asthma attacks.

CARB identified DPM as a TAC in 1998. Mobile sources (including trucks, buses, automobiles, trains, ships, and farm equipment) are by far the largest source of diesel emissions. The exhaust from diesel engines includes hundreds of different gaseous and particulate components, many of which are toxic. Diesel exhaust is composed of two phases, either gas or particulate; both contribute to the risk. The gas phase is composed of many of the urban HAPs, such as acetaldehyde, acrolein, benzene, 1,3-butadiene, formaldehyde, and polycyclic aromatic hydrocarbons. The particulate phase has many different types that can be classified by size or composition. The sizes of diesel particulates of greatest health concern are fine and ultrafine particles. These particles may be composed of elemental carbon with adsorbed compounds such as organics, sulfates, nitrates, metals, and other trace elements. Diesel exhaust is emitted from a broad range of on- and off-road diesel engines. As the Project would accommodate daily visits from heavy-duty diesel trucks during operations, an analysis of DPM was performed using the USEPA-approved AERMOD model.

The significance thresholds for TAC exposure requires an evaluation of non-cancer risk stated in terms of a hazard index. Non-cancer chronic impacts are calculated by dividing the annual average concentration by the REL for that substance. The potential for acute non-cancer hazards is evaluated by comparing the maximum short-term exposure level to an acute REL. RELs are designed to protect sensitive individuals within the population. The calculation of acute non-

cancer impacts is similar to the procedure for chronic non-cancer impacts. An acute or chronic hazard index of 1.0 is considered individually significant. The hazard index is calculated by dividing the acute or chronic exposure by the reference exposure level.

Vehicle DPM emissions were estimated using emission factors for coarse particulate matter (PM) generated with the 2021 version of the Emission FACTor model (EMFAC) developed by CARB. EMFAC 2021 is a mathematical model that was developed to calculate emission rates from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by CARB to project changes in future emissions from on-road mobile sources. The most recent version of this model, EMFAC 2021, incorporates regional motor vehicle data, information and estimates regarding the distribution of vehicle miles traveled by speed, and number of starts per day. The most important improvement in EMFAC 2021 is the integration of the new data and methods to estimate emissions from diesel trucks and buses. The model includes the emissions benefits of the truck and bus rule and the previously adopted rules for other on-road diesel equipment.

For this Project, annual average PM (idling and mobile) emission factors were generated by running EMFAC 2021 for vehicles in the Basin within Orange County, for year 2024 (first anticipated operational year). EMFAC generates emission factors in terms of grams of pollutant emitted per vehicle activity and can calculate a matrix of emission factors at specific values of vehicle speed, temperature, and relative humidity. The model was run for speeds traveled on and within the vicinity of the Project site. Idling was assumed to occur for a maximum of five minutes per hour.

Emissions from the following sources of TACs were analyzed and are shown in Table 2:

- Truck on-site mobile emissions
- Truck on-site idling emissions
- Truck off-site mobile emissions

**TABLE 2: EMISSION SOURCE ASSUMPTIONS**

| Source Type / Emission                                                                                                        | Configuration                                                                                                                | Assumptions                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>On-site Mobile Diesel Truck Circulation (DPM)</b><br><i>Modeled as line-volume sources</i><br>Configuration = Separated 2W | Plume height = 30 ft<br>Plume width = 30 ft<br>Length = based on path of travel<br>Surface-Based/Elevated =<br>Surface-based | <ul style="list-style-type: none"> <li>On-site travel of 89 truck trips per day, equivalent to approximately 45 trucks visiting the site per day (based on correspondence with the City Traffic Engineer, David Roseman).<sup>1</sup></li> <li>Traveling distance based on proposed site plan layout.</li> <li>PM mobile emissions factor provided by EMFAC 2021</li> </ul> |
| <b>On-site Diesel Truck Idling (DPM)</b><br><i>Modeled as volume sources</i><br>Release Height = 6.0 ft                       | On-site Idle of 45 trucks per day based on correspondence with the City Traffic Engineer, David Roseman).                    | <ul style="list-style-type: none"> <li>5 minutes idling per vehicle</li> <li>Emissions Factors based on EMFAC 2021</li> </ul>                                                                                                                                                                                                                                               |
| <b>Off-site Mobile Diesel Truck Travel (DPM)</b><br><i>Modeled as line-volume sources</i><br>Configuration = Separated 2W     | Plume height = 30 ft<br>Plume width = 30 ft<br>Length = based on path of travel<br>Surface-Based/Elevated =<br>Surface-based | <ul style="list-style-type: none"> <li>Off-site travel of 89 truck trips per day, equivalent to approximately 45 trucks visiting the site per day.</li> <li>PM mobile emissions factor provided by EMFAC 2021</li> </ul>                                                                                                                                                    |

## DAILY TRUCK TRIPS

The total diesel truck trips generated by the proposed Project is based on the Transportation Assessment Policies and Procedures (TAPP) worksheet provided by the City of Fullerton. An estimate of 89 heavy-duty truck trips (equivalent to approximately 45 heavy-duty trucks visiting the Project site per day, since each truck would have one trip for ingress and another trip for egress) was provided by David Roseman, City of Fullerton Traffic Engineer on April 26, 2023.

## EMISSION RATES

Table 3 provides emission factors and the resultant emissions. For calculations, data outputs, and reference documents please see Appendices 1 and 2 of this HRA.

<sup>1</sup> Correspondence with City Traffic Engineer, David Roseman, on April 26, 2023.

**TABLE 3: EMISSION RATES BY SOURCE**

| Source                                    | Pollutant                       | Volume/Size                                                | Emission Factors                        | Emissions (lbs/yr) |
|-------------------------------------------|---------------------------------|------------------------------------------------------------|-----------------------------------------|--------------------|
| On-site Diesel Truck (Mobile) Circulation | Diesel Particulate Matter (DPM) | 45 trucks per day traveling approximately 0.24395033 miles | 0.00847912676567608 g/mile              | 0.0749017          |
| On-site Diesel Truck Idling               | Diesel Particulate Matter (DPM) | 45 trucks per day idling 5 minutes                         | 0.00029167 g/hr -vehicle                | 0.002112302        |
| Off-site Diesel Truck (Mobile) Travel     | Diesel Particulate Matter (DPM) | 45 trucks per day travelling off-site                      | 0.00847913 g/mile and 0.00909169 g/mile | 1.20419159         |

SOURCES: EMFAC 2021 (v.1.02); CITY OF FULLERTON, 2023. SEE TABLE 2 OF THIS DOCUMENT AND APPENDIX 1 FOR FURTHER DETAIL.

NOTES: LBS = POUNDS; YR = YEAR; G = GRAMS; HP = HORSEPOWER

## EXPOSURE ASSESSMENT

Exposure assessment involves translating the emission rate (e.g., lbs/hr, g/hr) of individual toxic air contaminants into the concentration (e.g., grams/cubic meter g /sec m<sup>2</sup> or parts per million) of each toxic air contaminant. The key step in performing an exposure assessment is the application of an air dispersion model. The dispersion model incorporates the local meteorological data (wind speed, wind direction, local temperature, inversions, etc.), stack height, exhaust flow characteristics, and other features such as terrain and building downwash into the dispersion of individual air contaminant. The Lakes Environmental AERMOD Version 11.2.0 dispersion model was employed for this assessment.

AERMOD is a steady-state, multiple-source, Gaussian dispersion model designed for use with emission sources situated in terrain where ground elevations can exceed the stack heights of the emission sources (not a factor in this case). AERMOD requires hourly meteorological data consisting of wind vector, wind speed, temperature, stability class, and mixing height. Surface and upper air meteorological data provided by the SCAQMD for Fullerton Airport Meteorological Station was selected as being the most representative meteorology based on proximity to the Project site as well as being within the same SCAQMD source receptor area (SRA). The SCAQMD divides the Basin into 38 SRAs to forecast and report air quality. Both the Project site and the Fullerton Airport Meteorological Station are located in SCAQMD SRA 16.

## RISK ASSESSMENT

Once the emissions rates of individual air contaminants has been calculated, and an air dispersion model has been run through AERMOD, the next step in determining health risks is to determine the cancer risk, and acute and chronic incident rates. The Hotspots Analysis and Reporting Program (HARP) is a software suite used to assist with the programmatic requirements of the Air Toxics “Hot Spots” Program [Assembly Bill (AB) 2588]. HARP combines the tools needed to implement the requirements of AB 2588, such as reporting a facilities emissions inventory, determining a facilities prioritization score, conducting air dispersion modeling, and performing a facility health risk assessment. This study utilized the HARP2 Air Dispersion and Risk Tool with dispersion plot files created in AERMOD. Period and 1-hour dispersion files we used in combination with HARP-2 risk modelling software to calculate risk scenarios for residential, and workplace cancer rates, as well as acute and chronic incidences. After the risk assessment was complete HARP-2, plot files were then imported back into AREMOD for spatial and visual representation, and analysis of impact areas.

The Intake Rate Percentile sets the intake rate at which a person is exposed to the air pollutant. This study utilized the ‘OEHHA Derived Method’ intake rate percentile to assess risk each scenario, per OEHHA guidance. Additionally, the ‘SCAQMD Mandatory minimum pathways’ were selected for pathways to evaluate.

## RISK ASSESSMENT RESULTS

The results of the risk analysis indicate that cancer risks vary depending on the exposure scenario (residential or worker) and on location. In general, locations nearest the Project site have the greatest exposure and the associated risks are considerably lower as distance from the Project site increases. Residential receptors were modeled at the following locations:

- The residences located south, southeast, and southwest of the Project site, south of the I-91;
- The residences located to the east of the Project site, north of the I-91.

Additionally, an 11x11 uniform cartesian grid of discrete receptors was modeled 50 meters apart, starting at the center of the Project site, to model potential workplace receptors and other receptors located near to the Project site.

Table 4 displays the residential and workplace cancer risk, and acute and chronic incidence rate results at nearest receptors.

**TABLE 4: SUMMARY OF MAXIMUM HEALTH RISKS**

| Risk Metric                                             | Maximum Operational Risk (per million persons) | Maximum Construction Risk (per million persons) <sup>3</sup> | Maximum Total Risk (per million persons) | Significance Threshold | Is Threshold Exceeded? |
|---------------------------------------------------------|------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------|------------------------|
| Residential Cancer Risk (30-year exposure) <sup>1</sup> | 0.8                                            | 0.7                                                          | <b>1.5</b>                               | 10 per million         | No                     |
| Workplace Cancer Risk (25-year exposure) <sup>2</sup>   | 1.1                                            | 0                                                            | <b>1.1</b>                               | 10 per million         | No                     |
| Chronic (non-cancer)                                    | <0.1                                           | <0.1                                                         | <b>&lt;0.1</b>                           | Hazard Index $\geq 1$  | No                     |
| Acute (non-cancer)                                      | 0                                              | 0                                                            | <b>0</b>                                 | Hazard Index $\geq 1$  | No                     |

SOURCES: AERMOD 11.2.0 (LAKES ENVIRONMENTAL SOFTWARE, 2022); HARP-2 AIR DISPERSION AND RISK TOOL

NOTES: <sup>1</sup>THE MAXIMUM RESIDENTIAL CANCER RISK WOULD BE FOR A RESIDENCE LOCATED APPROXIMATELY 625 FEET TO THE EAST OF THE PROJECT SITE, AT 1380 E. BURTON STREET. THE INCREMENTAL RESIDENTIAL CANCER RISK (30-YEAR EXPOSURE) AT THIS LOCATION IS AS PROVIDED WITHIN THIS TABLE. <sup>2</sup>THE RECEPTOR WITH THE HIGHEST WORKPLACE CANCER RISK WOULD BE LOCATED ALONG THE WESTERN PERIMETER OF THE PROJECT WAREHOUSE BUILDING. <sup>3</sup>CONSTRUCTION TACS ARE NOT APPLICABLE FOR WORKPLACE RECEPTORS, SINCE WORKPLACE RECEPTORS WOULD NOT BE IN PLACE UNTIL AFTER CONSTRUCTION ACTIVITIES ARE FINISHED.

The primary sources of TAC emissions from the Project result from DPM from on-site and off-site truck travel, and benzene for gasoline refueling. Idling of the trucks on-site generated the least emissions.

Overall, the results show that residential 30-year cancer risk would remain below 10 in a million at areas near the Project site that contain residential receptors, even after consideration of construction-associated health risks to the residential receptors. Furthermore, it is very unlikely any individual would remain at the same location for 30 years; therefore, this result represents a conservative estimate.

Further, the results show that 25-year workplace cancer risk using the ‘OEHHA Derived Method’ method would remain below 10 in a million threshold, for on-site workers. The workers that could have the highest workplace cancer risk would be those workers working within and around western perimeter of the proposed warehouse building, who could experience an incremental cancer risk of up to approximately 1.1 in a million during Project operation, which is below the SCAQMD workplace cancer risk threshold of 10 in a million. See Table 4, above, and Appendix 4 for further detail.

Chronic or long-term exposure DPM can result in non-cancer health effects. Chronic non-cancer hazard results show that chronic risk on and near the Project site would remain below the hazard index of  $\geq 1$ , with a maximum value of less than 0.1. Acute non-cancer health effects would have a maximum value of 0, since DPM does not generate acute health risks, which is also below the hazard index of  $\geq 1$ .

## CUMULATIVE RISKS

It is worth noting that the SCAQMD has conducted an in-depth analysis of TACs and their resulting health risks for all of Southern California. This study, the Multiple Air Toxics Exposure Study in the South Coast Air Basin, MATES IV,” shows that cancer risk has decreased more than 50 percent between MATES III (2008) and MATES IV (2015).

MATES-IV is the most comprehensive dataset documenting the ambient air toxic levels and health risks associated with the Basin emissions. Therefore, MATES-IV study represents the baseline health risk for a cumulative analysis. MATES-IV estimates the average excess cancer risk level from exposure to TACs is less than 400 in one million basin-wide. These model estimates were based on monitoring data collected at 10 fixed sites within the Basin. None of the fixed monitoring sites are within the local area of the Project site. However, MATES-IV has extrapolated the excess cancer risk levels throughout the basin by modeling the specific grids. According to the latest online MATES-IV Carcinogenic Risk Interactive Map, MATES-IV modeling predicted an excess cancer risk of 1,067.39 in one million for the grid that contains the Project site. DPM is included in this cancer risk along with all other TAC sources. DPM accounts for 68 percent of the total risk shown in MATES-IV. The proposed Project would incrementally increase this risk to those living and working in the immediate vicinity of the proposed Project, as well as those in the surrounding environs, up to the maximum risks as disclosed in Table 4 (previous).

## REPORT PREPARERS

This document was prepared by De Novo Planning Group, Inc. of El Dorado Hills under the direction of the City of Fullerton. De Novo Planning Group staff participating in document preparation included the following:

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## **Appendix 1: Emissions Rates and Emission Calculations**

Source: EMFAC2021 (v1.0.2) Emission Rates  
Region Type: County  
Region: Orange  
Calendar Year: 2024  
Season: Annual  
Vehicle Classification: EMFAC202x Categories  
Units: miles/day for CVMT and EVMT, g/mile for RUNEX, PMBW and PMTW, mph for Speed, kWh/mile for Energy Consumption, gallon/mile for Fuel Consumption. PHEV calculated based on total VMT.

| Region | Calendar Year | Vehicle Category   | Model Year | Speed | Fuel   | Total VMT   | PM10_RUNEX  |
|--------|---------------|--------------------|------------|-------|--------|-------------|-------------|
| Orange | 2024          | T7 Tractor Class 8 | Aggregate  | 10    | Diesel | 478.8408367 | 0.008479127 |
| Orange | 2024          | T7 Tractor Class 8 | Aggregate  | 40    | Diesel | 9582.584943 | 0.009091691 |

## Mobile Truck Emissions

pounds per gram: 0.002205

### Line Volume Source #1 (on-site):

#### Assumptions:

1. Average distanced travelled per truck: 0.24395033 miles
2. # of trucks per day visiting the project site: 45 trucks
3. PM10 Mobile Emissions Factors (Orange County, 10 MPH, T7 Tractor Class 8, Year 2022):

#### Source:

AERMOD  
City of Fullerton  
EMFAC2021

Year: 2022 0.00847913 g/mile

Therefore:

Total daily PM10 On-site Mobile Emissions Generated by the project:

0.09308186 g/day-all trucks

0.00020521 lbs/day-all trucks

0.0749017 lbs/year-all trucks

Max Hr Emissions

Two times the average trip generation over the course of 1 hour, based on the given 24-hour daily totals (conservative estimate)

0.000017 lbs/hour-all trucks

### Line Volume Source #2 (Off-site Mobile Diesel Truck Travel - Ingress 1):

#### Assumptions:

1. Average distanced travelled per truck: 0.96262825 miles
2. # of trucks per day visiting the project site: 45 trucks
3. PM10 Mobile Emissions Factors (Orange County, 40 MPH, T7 Tractor Class 8, Year 2022):

#### Source:

AERMOD  
City of Fullerton  
EMFAC2021

Year: 2022 0.00909169 g/mile

Therefore:

Total daily PM10 On-site Mobile Emissions Generated by the project:

0.39383633 g/day-all trucks

0.00086826 lbs/day-all trucks

0.3169147 lbs/year-all trucks

Max Hr Emissions

Two times the average trip generation over the course of 1 hour, based on the given 24-hour daily totals (conservative estimate)

0.000072 lbs/hour-all trucks

### Line Volume Source #3 (Off-site Mobile Diesel Truck Travel - Egress 1):

#### Assumptions:

1. Average distanced travelled per truck: 0.55215044 miles
2. # of trucks per day visiting the project site: 45 trucks
3. PM10 Mobile Emissions Factors (Orange County, 40 MPH, T7 Tractor Class 8, Year 2022):

#### Source:

AERMOD  
City of Fullerton  
EMFAC2021

Year: 2022 0.00909169 g/mile

Therefore:

Total daily PM10 On-site Mobile Emissions Generated by the project:

0.22589915 g/day-all trucks

0.00049802 lbs/day-all trucks

0.18177795 lbs/year-all trucks

Max Hr Emissions

Two times the average trip generation over the course of 1 hour, based on the given 24-hour daily totals (conservative estimate)

0.000042 lbs/hour-all trucks

### Line Volume Source #4 (Off-site Mobile Diesel Truck Travel - Ingress 2):

#### Assumptions:

1. Average distanced travelled per truck: 0.74452696 miles
2. # of trucks per day visiting the project site: 45 trucks
3. PM10 Mobile Emissions Factors (Orange County, 40 MPH, T7 Tractor Class 8, Year 2022):

#### Source:

AERMOD  
City of Fullerton  
EMFAC2021

Year: 2022 0.00909169 g/mile

Therefore:

Total daily PM10 On-site Mobile Emissions Generated by the project:

0.3046054 g/day-all trucks

0.00067154 lbs/day-all trucks

0.24511179 lbs/year-all trucks

Max Hr Emissions

Two times the average trip generation over the course of 1 hour, based on the given 24-hour daily totals (conservative estimate)

0.000056 lbs/hour-all trucks

### Line Volume Source #5 (Off-site Mobile Diesel Truck Travel - Egress 2):

#### Assumptions:

1. Average distanced travelled per truck: 1.17091187 miles
2. # of trucks per day visiting the project site: 45 trucks
3. PM10 Mobile Emissions Factors (Orange County, 40 MPH, T7 Tractor Class 8, Year 2022):

#### Source:

AERMOD  
City of Fullerton  
EMFAC2021

Year: 2022 0.00909169 g/mile

Therefore:

Total daily PM10 On-site Mobile Emissions Generated by the project:

0.47905059 g/day-all trucks

0.00105612 lbs/day-all trucks

0.38548545 lbs/year-all trucks

Max Hr Emissions

Two times the average trip generation over the course of 1 hour, based on the given 24-hour daily totals (conservative estimate)

0.000088 lbs/hour-all trucks

Truck Idling

Idling Emission Rates taken from tables 3.2-41 and 42, of the EMFAC2014 Volume III - Technical Documentation Guidebook:  
<http://www.arb.ca.gov/msei/downloads/emfac2014/emfac2014-vol3-technical-documentation-052015.pdf>

Idling Emissions:

Table 3.2-40: Revised HHD Diesel Truck Low Idle Emission Rates (after 2009)  
Table 3.2-41: High Idle Emissions Rates for Summer (2009 and later)  
Table 3.2-42: High Idle Emissions Rates for Winter (2009 and later)

PM10 0.001 g/hr-truck  
PM10 0.003 g/hr-truck  
PM10 0.004 g/hr-truck

pounds per gram: 0.002205

Note: using an average of the summer and winter high idle emissions rates for the emission factor calcs

0.000291667 g/5 minutes-truck  
0.000291667 g/day-truck  
24 hours in day  
45 # of trucks  
0.013125 g/day-all trucks  
4.790625 g/year-all trucks  
0.010561508 lbs/year-all trucks

Note: assuming 5 minutes of idling per truck

0.000546875 g/hr-all trucks  
9.11458E-06 g/min-all trucks  
1.5191E-07 g/sec-all trucks

45.00 Peak hour truck trips (maximum peak hour truck trips is used for the sake of a conservative analysis)

0.013125 g/5 minutes-vehicles combined  
0.0000289 lbs/5 minutes-vehicles combined

Annual Emissions:  
Max Hr Emissions:

0.002112302 lbs/year-all trucks for each of the 5 idling points  
0.0000058 for each sampling point, for max 1 hr

Total: 0.016898 lbs/year-all trucks-total

## Construction Emissions (Off-Road Equipment)

365 days per year

| <u>Phase</u>          | <u>Average Daily PM10</u> | <u>Days</u>          |
|-----------------------|---------------------------|----------------------|
| Demolition            | 0.147966831 lbs/day       | 45 Source: CalEEMod  |
| Grading               | 0.059402637 lbs/day       | 23 Source: CalEEMod  |
| Building Construction | 0.180207656 lbs/day       | 240 Source: CalEEMod |
| Paving                | 0.003587824 lbs/day       | 22 Source: CalEEMod  |
| Architectural Coating | 0.002008193 lbs/day       | 23 Source: CalEEMod  |

51.39972609 lbs/year

### Amortized over 25 years:

**2.055989044** lbs/year

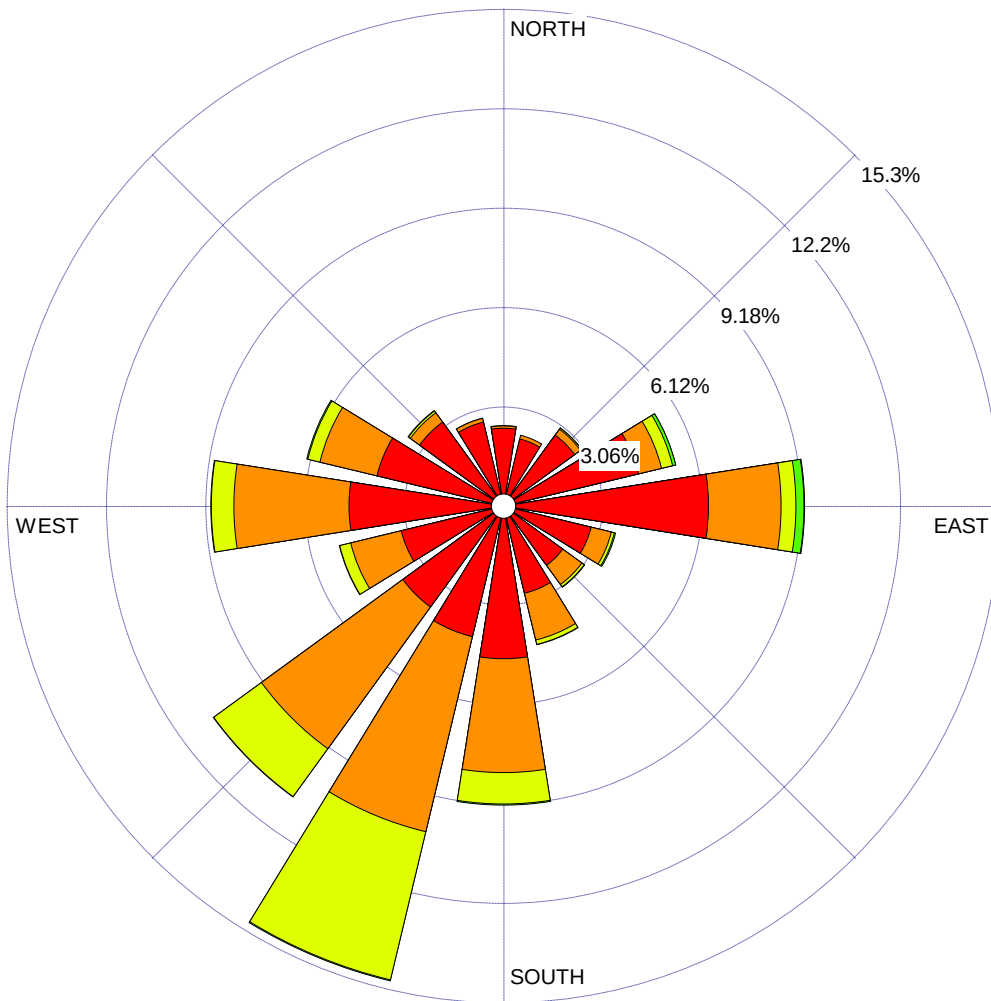
### Max Hr Emissions:

**0.000704106** Note: Assumes max hour is three times average rate

## **Appendix 2: Wind Rose**

WIND ROSE PLOT:  
**Station #3166**

DISPLAY:  
**Wind Speed**  
**Direction (blowing from)**



**WIND SPEED**  
(m/s)

- >= 11.10
- 8.80 - 11.10
- 5.70 - 8.80
- 3.60 - 5.70
- 2.10 - 3.60
- 0.50 - 2.10

Calms: 3.62%

COMMENTS:

DATA PERIOD:

**Start Date: 1/1/2012 - 00:00**  
**End Date: 12/31/2016 - 23:59**

COMPANY NAME:

**South Coast Air Quality Management District**

MODELER:

**Melissa Sheffer**

CALM WINDS:

**3.62%**

TOTAL COUNT:

**43471 hrs.**

AVG. WIND SPEED:

**2.02 m/s**

DATE:

**5/23/2017**

PROJECT NO.:



## **Appendix 3: AERMOD Output File**

\*\* Lakes Environmental AERMOD MPI  
\*\*  
\*\*\*\*\*  
\*\*  
\*\* AERMOD Input Produced by:  
\*\* AERMOD View Ver. 11.2.0  
\*\* Lakes Environmental Software Inc.  
\*\* Date: 5/22/2023  
\*\* File: C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond Avenue\Raymond Avenue.ADI  
\*\*

\*\*\*\*\*  
\*\*  
\*\*  
\*\*\*\*\*  
\*\* AERMOD Control Pathway  
\*\*\*\*\*  
\*\*  
\*\*

CO STARTING  
TITLEONE C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond  
MODELOPT CONC FLAT  
AVERTIME 1 PERIOD  
URBANOPT 143617 City\_of\_Fullerton  
POLLUTID OTHER  
RUNORNOT RUN  
ERRORFIL "Raymond Avenue.err"

CO FINISHED  
\*\*  
\*\*\*\*\*  
\*\* AERMOD Source Pathway  
\*\*\*\*\*  
\*\*  
\*\*

SO STARTING  
\*\* Source Location \*\*  
\*\* Source ID - Type - X Coord. - Y Coord. \*\*  
\*\* -----  
\*\* Line Source Represented by Separated Volume Sources (2W)  
\*\* LINE VOLUME Source ID = SLINE1  
\*\* DESCRSRC On-site Mobile Diesel Truck Circulation  
\*\* PREFIX  
\*\* Length of Side = 9.14  
\*\* Configuration = Separated 2W  
\*\* Emission Rate = 1.0  
\*\* Vertical Dimension = 9.14  
\*\* SZINIT = 4.25  
\*\* Nodes = 5  
\*\* 416159.839, 3746467.032, 0.00, 0.00, 8.51  
\*\* 416216.668, 3746467.964, 0.00, 0.00, 8.51  
\*\* 416288.962, 3746515.290, 0.00, 0.00, 8.51  
\*\* 416323.432, 3746515.104, 0.00, 0.00, 8.51  
\*\* 416323.245, 3746496.471, 0.00, 0.00, 8.51  
\*\* -----  
LOCATION L0000001 VOLUME 416164.410 3746467.107 0.0  
LOCATION L0000002 VOLUME 416182.696 3746467.407 0.0

|                   |        |            |             |     |
|-------------------|--------|------------|-------------|-----|
| LOCATION L0000003 | VOLUME | 416200.981 | 3746467.706 | 0.0 |
| LOCATION L0000004 | VOLUME | 416218.843 | 3746469.387 | 0.0 |
| LOCATION L0000005 | VOLUME | 416234.144 | 3746479.404 | 0.0 |
| LOCATION L0000006 | VOLUME | 416249.445 | 3746489.421 | 0.0 |
| LOCATION L0000007 | VOLUME | 416264.746 | 3746499.437 | 0.0 |
| LOCATION L0000008 | VOLUME | 416280.046 | 3746509.454 | 0.0 |
| LOCATION L0000009 | VOLUME | 416296.594 | 3746515.249 | 0.0 |
| LOCATION L0000010 | VOLUME | 416314.882 | 3746515.150 | 0.0 |
| LOCATION L0000011 | VOLUME | 416323.334 | 3746505.366 | 0.0 |

\*\* End of LINE VOLUME Source ID = SLINE1

|               |        |            |             |     |
|---------------|--------|------------|-------------|-----|
| LOCATION VOL1 | VOLUME | 416322.780 | 3746504.580 | 0.0 |
|---------------|--------|------------|-------------|-----|

\*\* DESCRSRC On-site Diesel Truck Idling Pt 1

|               |        |            |             |     |
|---------------|--------|------------|-------------|-----|
| LOCATION VOL2 | VOLUME | 416312.780 | 3746504.580 | 0.0 |
|---------------|--------|------------|-------------|-----|

\*\* DESCRSRC On-site Diesel Truck Idling Pt 2

|               |        |            |             |     |
|---------------|--------|------------|-------------|-----|
| LOCATION VOL3 | VOLUME | 416302.780 | 3746504.580 | 0.0 |
|---------------|--------|------------|-------------|-----|

\*\* DESCRSRC On-site Diesel Truck Idling Pt 3

|               |        |            |             |     |
|---------------|--------|------------|-------------|-----|
| LOCATION VOL4 | VOLUME | 416332.780 | 3746504.580 | 0.0 |
|---------------|--------|------------|-------------|-----|

\*\* DESCRSRC On-site Diesel Truck Idling Pt 4

|               |        |            |             |     |
|---------------|--------|------------|-------------|-----|
| LOCATION VOL5 | VOLUME | 416342.780 | 3746504.580 | 0.0 |
|---------------|--------|------------|-------------|-----|

\*\* DESCRSRC On-site Diesel Truck Idling Pt 5

\*\* -----

\*\* Line Source Represented by Separated Volume Sources (2W)

\*\* LINE VOLUME Source ID = SLINE2

\*\* DESCRSRC Off-site Mobile Diesel Truck Travel - Ingress 1

\*\* PREFIX

\*\* Length of Side = 9.14

\*\* Configuration = Separated 2W

\*\* Emission Rate = 1.0

\*\* Vertical Dimension = 9.14

\*\* SZINIT = 4.25

\*\* Nodes = 7

\*\* 416788.299, 3746335.628, 0.00, 0.00, 8.51

\*\* 416433.033, 3746333.948, 0.00, 0.00, 8.51

\*\* 416404.898, 3746340.667, 0.00, 0.00, 8.51

\*\* 416229.364, 3746360.824, 0.00, 0.00, 8.51

\*\* 416125.220, 3746393.579, 0.00, 0.00, 8.51

\*\* 416126.480, 3746465.808, 0.00, 0.00, 8.51

\*\* 416158.815, 3746466.648, 0.00, 0.00, 8.51

\*\* -----

|                   |        |            |             |     |
|-------------------|--------|------------|-------------|-----|
| LOCATION L0000023 | VOLUME | 416783.727 | 3746335.606 | 0.0 |
| LOCATION L0000024 | VOLUME | 416765.440 | 3746335.520 | 0.0 |
| LOCATION L0000025 | VOLUME | 416747.152 | 3746335.433 | 0.0 |
| LOCATION L0000026 | VOLUME | 416728.864 | 3746335.347 | 0.0 |
| LOCATION L0000027 | VOLUME | 416710.576 | 3746335.260 | 0.0 |
| LOCATION L0000028 | VOLUME | 416692.288 | 3746335.174 | 0.0 |
| LOCATION L0000029 | VOLUME | 416674.001 | 3746335.087 | 0.0 |
| LOCATION L0000030 | VOLUME | 416655.713 | 3746335.001 | 0.0 |
| LOCATION L0000031 | VOLUME | 416637.425 | 3746334.914 | 0.0 |
| LOCATION L0000032 | VOLUME | 416619.137 | 3746334.828 | 0.0 |
| LOCATION L0000033 | VOLUME | 416600.849 | 3746334.741 | 0.0 |
| LOCATION L0000034 | VOLUME | 416582.562 | 3746334.655 | 0.0 |
| LOCATION L0000035 | VOLUME | 416564.274 | 3746334.568 | 0.0 |
| LOCATION L0000036 | VOLUME | 416545.986 | 3746334.482 | 0.0 |
| LOCATION L0000037 | VOLUME | 416527.698 | 3746334.395 | 0.0 |
| LOCATION L0000038 | VOLUME | 416509.411 | 3746334.309 | 0.0 |
| LOCATION L0000039 | VOLUME | 416491.123 | 3746334.223 | 0.0 |

|                   |        |            |             |     |
|-------------------|--------|------------|-------------|-----|
| LOCATION L0000040 | VOLUME | 416472.835 | 3746334.136 | 0.0 |
| LOCATION L0000041 | VOLUME | 416454.547 | 3746334.050 | 0.0 |
| LOCATION L0000042 | VOLUME | 416436.259 | 3746333.963 | 0.0 |
| LOCATION L0000043 | VOLUME | 416418.383 | 3746337.446 | 0.0 |
| LOCATION L0000044 | VOLUME | 416400.503 | 3746341.171 | 0.0 |
| LOCATION L0000045 | VOLUME | 416382.335 | 3746343.258 | 0.0 |
| LOCATION L0000046 | VOLUME | 416364.166 | 3746345.344 | 0.0 |
| LOCATION L0000047 | VOLUME | 416345.998 | 3746347.430 | 0.0 |
| LOCATION L0000048 | VOLUME | 416327.829 | 3746349.517 | 0.0 |
| LOCATION L0000049 | VOLUME | 416309.660 | 3746351.603 | 0.0 |
| LOCATION L0000050 | VOLUME | 416291.492 | 3746353.690 | 0.0 |
| LOCATION L0000051 | VOLUME | 416273.323 | 3746355.776 | 0.0 |
| LOCATION L0000052 | VOLUME | 416255.155 | 3746357.862 | 0.0 |
| LOCATION L0000053 | VOLUME | 416236.986 | 3746359.949 | 0.0 |
| LOCATION L0000054 | VOLUME | 416219.237 | 3746364.009 | 0.0 |
| LOCATION L0000055 | VOLUME | 416201.792 | 3746369.496 | 0.0 |
| LOCATION L0000056 | VOLUME | 416184.346 | 3746374.983 | 0.0 |
| LOCATION L0000057 | VOLUME | 416166.901 | 3746380.470 | 0.0 |
| LOCATION L0000058 | VOLUME | 416149.455 | 3746385.956 | 0.0 |
| LOCATION L0000059 | VOLUME | 416132.010 | 3746391.443 | 0.0 |
| LOCATION L0000060 | VOLUME | 416125.415 | 3746404.748 | 0.0 |
| LOCATION L0000061 | VOLUME | 416125.734 | 3746423.033 | 0.0 |
| LOCATION L0000062 | VOLUME | 416126.053 | 3746441.318 | 0.0 |
| LOCATION L0000063 | VOLUME | 416126.372 | 3746459.603 | 0.0 |
| LOCATION L0000064 | VOLUME | 416138.558 | 3746466.122 | 0.0 |
| LOCATION L0000065 | VOLUME | 416156.840 | 3746466.596 | 0.0 |

\*\* End of LINE VOLUME Source ID = SLINE2

\*\* -----

\*\* Line Source Represented by Separated Volume Sources (2W)

\*\* LINE VOLUME Source ID = SLINE3

\*\* DESCRSRC Off-site Mobile Diesel Truck Travel - Egress 1

\*\* PREFIX

\*\* Length of Side = 9.14

\*\* Configuration = Separated 2W

\*\* Emission Rate = 1.0

\*\* Vertical Dimension = 9.14

\*\* SZINIT = 4.25

\*\* Nodes = 6

\*\* 416157.555, 3746464.968, 0.00, 0.00, 8.51

\*\* 416116.821, 3746464.968, 0.00, 0.00, 8.51

\*\* 416113.462, 3746390.219, 0.00, 0.00, 8.51

\*\* 416061.810, 3746381.821, 0.00, 0.00, 8.51

\*\* 415884.177, 3746342.347, 0.00, 0.00, 8.51

\*\* 415790.111, 3746333.528, 0.00, 0.00, 8.51

\*\* -----

|                   |        |            |             |     |
|-------------------|--------|------------|-------------|-----|
| LOCATION L0000066 | VOLUME | 416152.983 | 3746464.968 | 0.0 |
| LOCATION L0000067 | VOLUME | 416134.695 | 3746464.968 | 0.0 |
| LOCATION L0000068 | VOLUME | 416116.803 | 3746464.554 | 0.0 |
| LOCATION L0000069 | VOLUME | 416115.982 | 3746446.285 | 0.0 |
| LOCATION L0000070 | VOLUME | 416115.161 | 3746428.015 | 0.0 |
| LOCATION L0000071 | VOLUME | 416114.339 | 3746409.746 | 0.0 |
| LOCATION L0000072 | VOLUME | 416113.518 | 3746391.476 | 0.0 |
| LOCATION L0000073 | VOLUME | 416096.653 | 3746387.486 | 0.0 |
| LOCATION L0000074 | VOLUME | 416078.602 | 3746384.551 | 0.0 |
| LOCATION L0000075 | VOLUME | 416060.565 | 3746381.544 | 0.0 |
| LOCATION L0000076 | VOLUME | 416042.712 | 3746377.577 | 0.0 |

|                   |        |            |             |     |
|-------------------|--------|------------|-------------|-----|
| LOCATION L0000077 | VOLUME | 416024.860 | 3746373.609 | 0.0 |
| LOCATION L0000078 | VOLUME | 416007.007 | 3746369.642 | 0.0 |
| LOCATION L0000079 | VOLUME | 415989.154 | 3746365.675 | 0.0 |
| LOCATION L0000080 | VOLUME | 415971.302 | 3746361.708 | 0.0 |
| LOCATION L0000081 | VOLUME | 415953.449 | 3746357.741 | 0.0 |
| LOCATION L0000082 | VOLUME | 415935.597 | 3746353.773 | 0.0 |
| LOCATION L0000083 | VOLUME | 415917.744 | 3746349.806 | 0.0 |
| LOCATION L0000084 | VOLUME | 415899.892 | 3746345.839 | 0.0 |
| LOCATION L0000085 | VOLUME | 415881.997 | 3746342.142 | 0.0 |
| LOCATION L0000086 | VOLUME | 415863.789 | 3746340.435 | 0.0 |
| LOCATION L0000087 | VOLUME | 415845.581 | 3746338.728 | 0.0 |
| LOCATION L0000088 | VOLUME | 415827.372 | 3746337.021 | 0.0 |
| LOCATION L0000089 | VOLUME | 415809.164 | 3746335.314 | 0.0 |
| LOCATION L0000090 | VOLUME | 415790.956 | 3746333.607 | 0.0 |

\*\* End of LINE VOLUME Source ID = SLINE3

\*\* -----

\*\* Line Source Represented by Separated Volume Sources (2W)

\*\* LINE VOLUME Source ID = SLINE4

\*\* DESCRSRC Off-site Mobile Diesel Truck Travel - Ingress 2

\*\* PREFIX

\*\* Length of Side = 9.14

\*\* Configuration = Separated 2W

\*\* Emission Rate = 1.0

\*\* Vertical Dimension = 9.14

\*\* SZINIT = 4.25

\*\* Nodes = 5

\*\* 415787.591, 3746297.413, 0.00, 0.00, 8.51

\*\* 416019.396, 3746278.516, 0.00, 0.00, 8.51

\*\* 416126.060, 3746250.381, 0.00, 0.00, 8.51

\*\* 416123.960, 3746467.068, 0.00, 0.00, 8.51

\*\* 416163.434, 3746467.908, 0.00, 0.00, 8.51

\*\* -----

|                   |        |            |             |     |
|-------------------|--------|------------|-------------|-----|
| LOCATION L0000091 | VOLUME | 415792.148 | 3746297.042 | 0.0 |
| LOCATION L0000092 | VOLUME | 415810.376 | 3746295.556 | 0.0 |
| LOCATION L0000093 | VOLUME | 415828.603 | 3746294.070 | 0.0 |
| LOCATION L0000094 | VOLUME | 415846.831 | 3746292.584 | 0.0 |
| LOCATION L0000095 | VOLUME | 415865.058 | 3746291.098 | 0.0 |
| LOCATION L0000096 | VOLUME | 415883.286 | 3746289.612 | 0.0 |
| LOCATION L0000097 | VOLUME | 415901.513 | 3746288.126 | 0.0 |
| LOCATION L0000098 | VOLUME | 415919.741 | 3746286.640 | 0.0 |
| LOCATION L0000099 | VOLUME | 415937.968 | 3746285.154 | 0.0 |
| LOCATION L0000100 | VOLUME | 415956.196 | 3746283.668 | 0.0 |
| LOCATION L0000101 | VOLUME | 415974.424 | 3746282.183 | 0.0 |
| LOCATION L0000102 | VOLUME | 415992.651 | 3746280.697 | 0.0 |
| LOCATION L0000103 | VOLUME | 416010.879 | 3746279.211 | 0.0 |
| LOCATION L0000104 | VOLUME | 416028.816 | 3746276.031 | 0.0 |
| LOCATION L0000105 | VOLUME | 416046.499 | 3746271.367 | 0.0 |
| LOCATION L0000106 | VOLUME | 416064.182 | 3746266.703 | 0.0 |
| LOCATION L0000107 | VOLUME | 416081.866 | 3746262.038 | 0.0 |
| LOCATION L0000108 | VOLUME | 416099.549 | 3746257.374 | 0.0 |
| LOCATION L0000109 | VOLUME | 416117.232 | 3746252.709 | 0.0 |
| LOCATION L0000110 | VOLUME | 416125.971 | 3746259.538 | 0.0 |
| LOCATION L0000111 | VOLUME | 416125.794 | 3746277.825 | 0.0 |
| LOCATION L0000112 | VOLUME | 416125.617 | 3746296.112 | 0.0 |
| LOCATION L0000113 | VOLUME | 416125.440 | 3746314.400 | 0.0 |
| LOCATION L0000114 | VOLUME | 416125.262 | 3746332.687 | 0.0 |

|                   |        |            |             |     |
|-------------------|--------|------------|-------------|-----|
| LOCATION L0000115 | VOLUME | 416125.085 | 3746350.974 | 0.0 |
| LOCATION L0000116 | VOLUME | 416124.908 | 3746369.261 | 0.0 |
| LOCATION L0000117 | VOLUME | 416124.731 | 3746387.548 | 0.0 |
| LOCATION L0000118 | VOLUME | 416124.554 | 3746405.835 | 0.0 |
| LOCATION L0000119 | VOLUME | 416124.376 | 3746424.122 | 0.0 |
| LOCATION L0000120 | VOLUME | 416124.199 | 3746442.410 | 0.0 |
| LOCATION L0000121 | VOLUME | 416124.022 | 3746460.697 | 0.0 |
| LOCATION L0000122 | VOLUME | 416135.874 | 3746467.321 | 0.0 |
| LOCATION L0000123 | VOLUME | 416154.158 | 3746467.710 | 0.0 |

\*\*\* End of LINE VOLUME Source ID = SLINE4

\*\*\* -----

\*\*\* Line Source Represented by Separated Volume Sources (2W)

\*\*\* LINE VOLUME Source ID = SLINE5

\*\*\* DESCRSRC Off-site Mobile Diesel Truck Travel - Egress 2

\*\*\* PREFIX

\*\*\* Length of Side = 9.14

\*\*\* Configuration = Separated 2W

\*\*\* Emission Rate = 1.0

\*\*\* Vertical Dimension = 9.14

\*\*\* SZINIT = 4.25

\*\*\* Nodes = 8

\*\*\* 416163.014, 3746465.388, 0.00, 0.00, 8.51

\*\*\* 416121.861, 3746465.808, 0.00, 0.00, 8.51

\*\*\* 416116.401, 3746464.128, 0.00, 0.00, 8.51

\*\*\* 416114.302, 3746250.381, 0.00, 0.00, 8.51

\*\*\* 416134.039, 3746250.801, 0.00, 0.00, 8.51

\*\*\* 416271.358, 3746291.114, 0.00, 0.00, 8.51

\*\*\* 416434.293, 3746308.752, 0.00, 0.00, 8.51

\*\*\* 416789.139, 3746310.012, 0.00, 0.00, 8.51

\*\*\* -----

|                   |        |            |             |     |
|-------------------|--------|------------|-------------|-----|
| LOCATION L0000124 | VOLUME | 416158.443 | 3746465.435 | 0.0 |
| LOCATION L0000125 | VOLUME | 416140.156 | 3746465.621 | 0.0 |
| LOCATION L0000126 | VOLUME | 416121.868 | 3746465.808 | 0.0 |
| LOCATION L0000127 | VOLUME | 416116.278 | 3746451.560 | 0.0 |
| LOCATION L0000128 | VOLUME | 416116.098 | 3746433.273 | 0.0 |
| LOCATION L0000129 | VOLUME | 416115.919 | 3746414.986 | 0.0 |
| LOCATION L0000130 | VOLUME | 416115.739 | 3746396.699 | 0.0 |
| LOCATION L0000131 | VOLUME | 416115.559 | 3746378.412 | 0.0 |
| LOCATION L0000132 | VOLUME | 416115.380 | 3746360.125 | 0.0 |
| LOCATION L0000133 | VOLUME | 416115.200 | 3746341.838 | 0.0 |
| LOCATION L0000134 | VOLUME | 416115.020 | 3746323.551 | 0.0 |
| LOCATION L0000135 | VOLUME | 416114.841 | 3746305.263 | 0.0 |
| LOCATION L0000136 | VOLUME | 416114.661 | 3746286.976 | 0.0 |
| LOCATION L0000137 | VOLUME | 416114.482 | 3746268.689 | 0.0 |
| LOCATION L0000138 | VOLUME | 416114.302 | 3746250.402 | 0.0 |
| LOCATION L0000139 | VOLUME | 416132.564 | 3746250.769 | 0.0 |
| LOCATION L0000140 | VOLUME | 416150.171 | 3746255.537 | 0.0 |
| LOCATION L0000141 | VOLUME | 416167.718 | 3746260.688 | 0.0 |
| LOCATION L0000142 | VOLUME | 416185.266 | 3746265.840 | 0.0 |
| LOCATION L0000143 | VOLUME | 416202.813 | 3746270.991 | 0.0 |
| LOCATION L0000144 | VOLUME | 416220.361 | 3746276.143 | 0.0 |
| LOCATION L0000145 | VOLUME | 416237.908 | 3746281.294 | 0.0 |
| LOCATION L0000146 | VOLUME | 416255.456 | 3746286.446 | 0.0 |
| LOCATION L0000147 | VOLUME | 416273.062 | 3746291.299 | 0.0 |
| LOCATION L0000148 | VOLUME | 416291.244 | 3746293.267 | 0.0 |
| LOCATION L0000149 | VOLUME | 416309.426 | 3746295.235 | 0.0 |

|                   |        |            |             |     |
|-------------------|--------|------------|-------------|-----|
| LOCATION L0000150 | VOLUME | 416327.608 | 3746297.203 | 0.0 |
| LOCATION L0000151 | VOLUME | 416345.790 | 3746299.171 | 0.0 |
| LOCATION L0000152 | VOLUME | 416363.971 | 3746301.140 | 0.0 |
| LOCATION L0000153 | VOLUME | 416382.153 | 3746303.108 | 0.0 |
| LOCATION L0000154 | VOLUME | 416400.335 | 3746305.076 | 0.0 |
| LOCATION L0000155 | VOLUME | 416418.517 | 3746307.044 | 0.0 |
| LOCATION L0000156 | VOLUME | 416436.713 | 3746308.760 | 0.0 |
| LOCATION L0000157 | VOLUME | 416455.000 | 3746308.825 | 0.0 |
| LOCATION L0000158 | VOLUME | 416473.288 | 3746308.890 | 0.0 |
| LOCATION L0000159 | VOLUME | 416491.576 | 3746308.955 | 0.0 |
| LOCATION L0000160 | VOLUME | 416509.864 | 3746309.020 | 0.0 |
| LOCATION L0000161 | VOLUME | 416528.152 | 3746309.085 | 0.0 |
| LOCATION L0000162 | VOLUME | 416546.440 | 3746309.150 | 0.0 |
| LOCATION L0000163 | VOLUME | 416564.728 | 3746309.215 | 0.0 |
| LOCATION L0000164 | VOLUME | 416583.016 | 3746309.280 | 0.0 |
| LOCATION L0000165 | VOLUME | 416601.304 | 3746309.345 | 0.0 |
| LOCATION L0000166 | VOLUME | 416619.591 | 3746309.410 | 0.0 |
| LOCATION L0000167 | VOLUME | 416637.879 | 3746309.474 | 0.0 |
| LOCATION L0000168 | VOLUME | 416656.167 | 3746309.539 | 0.0 |
| LOCATION L0000169 | VOLUME | 416674.455 | 3746309.604 | 0.0 |
| LOCATION L0000170 | VOLUME | 416692.743 | 3746309.669 | 0.0 |
| LOCATION L0000171 | VOLUME | 416711.031 | 3746309.734 | 0.0 |
| LOCATION L0000172 | VOLUME | 416729.319 | 3746309.799 | 0.0 |
| LOCATION L0000173 | VOLUME | 416747.607 | 3746309.864 | 0.0 |
| LOCATION L0000174 | VOLUME | 416765.895 | 3746309.929 | 0.0 |
| LOCATION L0000175 | VOLUME | 416784.182 | 3746309.994 | 0.0 |

\*\* End of LINE VOLUME Source ID = SLINE5

|               |        |            |             |     |
|---------------|--------|------------|-------------|-----|
| LOCATION VOL6 | VOLUME | 416286.480 | 3746449.850 | 0.0 |
|---------------|--------|------------|-------------|-----|

\*\* DESCRSRC Construction Volume Source

\*\* Source Parameters \*\*

\*\* LINE VOLUME Source ID = SLINE1

|                   |              |      |      |      |
|-------------------|--------------|------|------|------|
| SRCPARAM L0000001 | 0.0909090909 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000002 | 0.0909090909 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000003 | 0.0909090909 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000004 | 0.0909090909 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000005 | 0.0909090909 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000006 | 0.0909090909 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000007 | 0.0909090909 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000008 | 0.0909090909 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000009 | 0.0909090909 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000010 | 0.0909090909 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000011 | 0.0909090909 | 0.00 | 8.51 | 4.25 |

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|               |     |       |       |       |
|---------------|-----|-------|-------|-------|
| SRCPARAM VOL1 | 1.0 | 1.829 | 1.170 | 0.000 |
| SRCPARAM VOL2 | 1.0 | 1.829 | 1.170 | 0.000 |
| SRCPARAM VOL3 | 1.0 | 1.829 | 1.170 | 0.000 |
| SRCPARAM VOL4 | 1.0 | 1.829 | 1.170 | 0.000 |
| SRCPARAM VOL5 | 1.0 | 1.829 | 1.170 | 0.000 |

\*\* LINE VOLUME Source ID = SLINE2

|                   |             |      |      |      |
|-------------------|-------------|------|------|------|
| SRCPARAM L0000023 | 0.023255814 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000024 | 0.023255814 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000025 | 0.023255814 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000026 | 0.023255814 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000027 | 0.023255814 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000028 | 0.023255814 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000029 | 0.023255814 | 0.00 | 8.51 | 4.25 |

|                   |             |      |      |      |
|-------------------|-------------|------|------|------|
| SRCPARAM L0000030 | 0.023255814 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000031 | 0.023255814 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000032 | 0.023255814 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000033 | 0.023255814 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000034 | 0.023255814 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000035 | 0.023255814 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000036 | 0.023255814 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000037 | 0.023255814 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000038 | 0.023255814 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000039 | 0.023255814 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000040 | 0.023255814 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000041 | 0.023255814 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000042 | 0.023255814 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000043 | 0.023255814 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000044 | 0.023255814 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000045 | 0.023255814 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000046 | 0.023255814 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000047 | 0.023255814 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000048 | 0.023255814 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000049 | 0.023255814 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000050 | 0.023255814 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000051 | 0.023255814 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000052 | 0.023255814 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000053 | 0.023255814 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000054 | 0.023255814 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000055 | 0.023255814 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000056 | 0.023255814 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000057 | 0.023255814 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000058 | 0.023255814 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000059 | 0.023255814 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000060 | 0.023255814 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000061 | 0.023255814 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000062 | 0.023255814 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000063 | 0.023255814 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000064 | 0.023255814 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000065 | 0.023255814 | 0.00 | 8.51 | 4.25 |

\*\* -----

\*\* LINE VOLUME Source ID = SLINE3

|                   |      |      |      |      |
|-------------------|------|------|------|------|
| SRCPARAM L0000066 | 0.04 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000067 | 0.04 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000068 | 0.04 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000069 | 0.04 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000070 | 0.04 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000071 | 0.04 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000072 | 0.04 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000073 | 0.04 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000074 | 0.04 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000075 | 0.04 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000076 | 0.04 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000077 | 0.04 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000078 | 0.04 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000079 | 0.04 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000080 | 0.04 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000081 | 0.04 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000082 | 0.04 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000083 | 0.04 | 0.00 | 8.51 | 4.25 |

|                   |      |      |      |      |
|-------------------|------|------|------|------|
| SRCPARAM L0000084 | 0.04 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000085 | 0.04 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000086 | 0.04 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000087 | 0.04 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000088 | 0.04 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000089 | 0.04 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000090 | 0.04 | 0.00 | 8.51 | 4.25 |

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\*\* LINE VOLUME Source ID = SLINE4

|                   |              |      |      |      |
|-------------------|--------------|------|------|------|
| SRCPARAM L0000091 | 0.0303030303 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000092 | 0.0303030303 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000093 | 0.0303030303 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000094 | 0.0303030303 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000095 | 0.0303030303 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000096 | 0.0303030303 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000097 | 0.0303030303 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000098 | 0.0303030303 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000099 | 0.0303030303 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000100 | 0.0303030303 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000101 | 0.0303030303 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000102 | 0.0303030303 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000103 | 0.0303030303 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000104 | 0.0303030303 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000105 | 0.0303030303 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000106 | 0.0303030303 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000107 | 0.0303030303 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000108 | 0.0303030303 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000109 | 0.0303030303 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000110 | 0.0303030303 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000111 | 0.0303030303 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000112 | 0.0303030303 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000113 | 0.0303030303 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000114 | 0.0303030303 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000115 | 0.0303030303 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000116 | 0.0303030303 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000117 | 0.0303030303 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000118 | 0.0303030303 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000119 | 0.0303030303 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000120 | 0.0303030303 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000121 | 0.0303030303 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000122 | 0.0303030303 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000123 | 0.0303030303 | 0.00 | 8.51 | 4.25 |

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\*\* LINE VOLUME Source ID = SLINE5

|                   |              |      |      |      |
|-------------------|--------------|------|------|------|
| SRCPARAM L0000124 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000125 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000126 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000127 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000128 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000129 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000130 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000131 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000132 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000133 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000134 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000135 | 0.0192307692 | 0.00 | 8.51 | 4.25 |

|                   |              |      |      |      |
|-------------------|--------------|------|------|------|
| SRCPARAM L0000136 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000137 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000138 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000139 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000140 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000141 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000142 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000143 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000144 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000145 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000146 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000147 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000148 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000149 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000150 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000151 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000152 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000153 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000154 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000155 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000156 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000157 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000158 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000159 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000160 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000161 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000162 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000163 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000164 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000165 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000166 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000167 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000168 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000169 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000170 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000171 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000172 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000173 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000174 | 0.0192307692 | 0.00 | 8.51 | 4.25 |
| SRCPARAM L0000175 | 0.0192307692 | 0.00 | 8.51 | 4.25 |

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|               |     |       |        |       |
|---------------|-----|-------|--------|-------|
| SRCPARAM VOL6 | 1.0 | 0.000 | 11.133 | 0.000 |
|---------------|-----|-------|--------|-------|

URBANSRC ALL

|                 |          |          |          |          |          |          |
|-----------------|----------|----------|----------|----------|----------|----------|
| SRCGROUP SLINE1 | L0000001 | L0000002 | L0000003 | L0000004 | L0000005 | L0000006 |
| SRCGROUP SLINE1 | L0000007 | L0000008 | L0000009 | L0000010 | L0000011 |          |
| SRCGROUP SLINE2 | L0000023 | L0000024 | L0000025 | L0000026 | L0000027 | L0000028 |
| SRCGROUP SLINE2 | L0000029 | L0000030 | L0000031 | L0000032 | L0000033 | L0000034 |
| SRCGROUP SLINE2 | L0000035 | L0000036 | L0000037 | L0000038 | L0000039 | L0000040 |
| SRCGROUP SLINE2 | L0000041 | L0000042 | L0000043 | L0000044 | L0000045 | L0000046 |
| SRCGROUP SLINE2 | L0000047 | L0000048 | L0000049 | L0000050 | L0000051 | L0000052 |
| SRCGROUP SLINE2 | L0000053 | L0000054 | L0000055 | L0000056 | L0000057 | L0000058 |
| SRCGROUP SLINE2 | L0000059 | L0000060 | L0000061 | L0000062 | L0000063 | L0000064 |
| SRCGROUP SLINE2 | L0000065 |          |          |          |          |          |
| SRCGROUP SLINE3 | L0000066 | L0000067 | L0000068 | L0000069 | L0000070 | L0000071 |
| SRCGROUP SLINE3 | L0000072 | L0000073 | L0000074 | L0000075 | L0000076 | L0000077 |
| SRCGROUP SLINE3 | L0000078 | L0000079 | L0000080 | L0000081 | L0000082 | L0000083 |

SRCGROUP SLINE3 L0000084 L0000085 L0000086 L0000087 L0000088 L0000089  
SRCGROUP SLINE3 L0000090  
SRCGROUP SLINE4 L0000091 L0000092 L0000093 L0000094 L0000095 L0000096  
SRCGROUP SLINE4 L0000097 L0000098 L0000099 L0000100 L0000101 L0000102  
SRCGROUP SLINE4 L0000103 L0000104 L0000105 L0000106 L0000107 L0000108  
SRCGROUP SLINE4 L0000109 L0000110 L0000111 L0000112 L0000113 L0000114  
SRCGROUP SLINE4 L0000115 L0000116 L0000117 L0000118 L0000119 L0000120  
SRCGROUP SLINE4 L0000121 L0000122 L0000123  
SRCGROUP SLINE5 L0000124 L0000125 L0000126 L0000127 L0000128 L0000129  
SRCGROUP SLINE5 L0000130 L0000131 L0000132 L0000133 L0000134 L0000135  
SRCGROUP SLINE5 L0000136 L0000137 L0000138 L0000139 L0000140 L0000141  
SRCGROUP SLINE5 L0000142 L0000143 L0000144 L0000145 L0000146 L0000147  
SRCGROUP SLINE5 L0000148 L0000149 L0000150 L0000151 L0000152 L0000153  
SRCGROUP SLINE5 L0000154 L0000155 L0000156 L0000157 L0000158 L0000159  
SRCGROUP SLINE5 L0000160 L0000161 L0000162 L0000163 L0000164 L0000165  
SRCGROUP SLINE5 L0000166 L0000167 L0000168 L0000169 L0000170 L0000171  
SRCGROUP SLINE5 L0000172 L0000173 L0000174 L0000175  
SRCGROUP VOL1 VOL1  
SRCGROUP VOL2 VOL2  
SRCGROUP VOL3 VOL3  
SRCGROUP VOL4 VOL4  
SRCGROUP VOL5 VOL5  
SRCGROUP VOL6 VOL6

SO FINISHED

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\*\*\*\*\*

\*\* AERMOD Receptor Pathway

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\*\*

\*\*

RE STARTING

\*\* DESCRREC "UCART1" "Receptors generated from Uniform Cartesian Grid"

DISCCART 416018.79 3746204.83  
DISCCART 416068.79 3746204.83  
DISCCART 416118.79 3746204.83  
DISCCART 416168.79 3746204.83  
DISCCART 416218.79 3746204.83  
DISCCART 416268.79 3746204.83  
DISCCART 416318.79 3746204.83  
DISCCART 416368.79 3746204.83  
DISCCART 416418.79 3746204.83  
DISCCART 416468.79 3746204.83  
DISCCART 416518.79 3746204.83  
DISCCART 416018.79 3746254.83  
DISCCART 416068.79 3746254.83  
DISCCART 416118.79 3746254.83  
DISCCART 416168.79 3746254.83  
DISCCART 416218.79 3746254.83  
DISCCART 416268.79 3746254.83  
DISCCART 416318.79 3746254.83  
DISCCART 416368.79 3746254.83  
DISCCART 416418.79 3746254.83  
DISCCART 416468.79 3746254.83  
DISCCART 416518.79 3746254.83  
DISCCART 416018.79 3746304.83  
DISCCART 416068.79 3746304.83

|          |           |            |
|----------|-----------|------------|
| DISCCART | 416118.79 | 3746304.83 |
| DISCCART | 416168.79 | 3746304.83 |
| DISCCART | 416218.79 | 3746304.83 |
| DISCCART | 416268.79 | 3746304.83 |
| DISCCART | 416318.79 | 3746304.83 |
| DISCCART | 416368.79 | 3746304.83 |
| DISCCART | 416418.79 | 3746304.83 |
| DISCCART | 416468.79 | 3746304.83 |
| DISCCART | 416518.79 | 3746304.83 |
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| DISCCART | 416068.79 | 3746354.83 |
| DISCCART | 416118.79 | 3746354.83 |
| DISCCART | 416168.79 | 3746354.83 |
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| DISCCART | 416118.79 | 3746554.83 |

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| DISCCART          | 416322.84 | 3746499.46 |
| DISCCART          | 416332.84 | 3746498.80 |
| DISCCART          | 416342.39 | 3746499.24 |
| DISCCART          | 416190.87 | 3746435.25 |
| DISCCART          | 416189.75 | 3746447.47 |
| DISCCART          | 416301.03 | 3746253.85 |
| DISCCART          | 416335.27 | 3746290.44 |
| DISCCART          | 416331.87 | 3746279.46 |
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| DISCCART          | 416384.15 | 3746286.52 |
| DISCCART          | 416388.59 | 3746285.74 |

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| DISCCART | 416756.65 | 3746428.41 |
| DISCCART | 416751.16 | 3746474.68 |
| DISCCART | 416781.48 | 3746473.63 |
| DISCCART | 416756.38 | 3746455.59 |
| DISCCART | 416773.90 | 3746452.98 |
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| DISCCART | 416220.03 | 3746195.97 |
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| DISCCART | 416250.77 | 3746195.17 |
| DISCCART | 416267.19 | 3746194.91 |
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| DISCCART | 416057.36 | 3746252.67 |
| DISCCART | 416049.67 | 3746254.52 |
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| DISCCART | 416008.87 | 3746260.88 |
| DISCCART | 416004.90 | 3746261.94 |
| DISCCART | 415999.33 | 3746267.24 |
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| DISCCART | 415970.45 | 3746270.42 |

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DISCCART 415797.44 3746276.78  
DISCCART 415787.11 3746276.25

RE FINISHED

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\*\* AERMOD Meteorology Pathway

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ME STARTING

SURFFILE "Met Data\KFUL\_v9.SFC"

PROFFILE "Met Data\KFUL\_v9.PFL"

SURFDATA 3166 2012

UAIRDATA 3190 2012

PROFBASE 95.0 FEET

ME FINISHED

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\*\* AERMOD Output Pathway

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OU STARTING

RECTABLE ALLAVE 1ST

RECTABLE 1 1ST

\*\* Auto-Generated Plotfiles

PLOTFILE 1 SLINE1 1ST "Raymond Avenue.AD\01H1G001.PLT" 31

PLOTFILE 1 SLINE2 1ST "Raymond Avenue.AD\01H1G002.PLT" 32

PLOTFILE 1 SLINE3 1ST "Raymond Avenue.AD\01H1G003.PLT" 33

PLOTFILE 1 SLINE4 1ST "Raymond Avenue.AD\01H1G004.PLT" 34

PLOTFILE 1 SLINE5 1ST "Raymond Avenue.AD\01H1G005.PLT" 35

PLOTFILE 1 VOL1 1ST "Raymond Avenue.AD\01H1G006.PLT" 36

PLOTFILE 1 VOL2 1ST "Raymond Avenue.AD\01H1G007.PLT" 37

PLOTFILE 1 VOL3 1ST "Raymond Avenue.AD\01H1G008.PLT" 38

PLOTFILE 1 VOL4 1ST "Raymond Avenue.AD\01H1G009.PLT" 39

PLOTFILE 1 VOL5 1ST "Raymond Avenue.AD\01H1G010.PLT" 40

PLOTFILE 1 VOL6 1ST "Raymond Avenue.AD\01H1G011.PLT" 41

PLOTFILE PERIOD SLINE1 "Raymond Avenue.AD\PE00G001.PLT" 42

PLOTFILE PERIOD SLINE2 "Raymond Avenue.AD\PE00G002.PLT" 43

PLOTFILE PERIOD SLINE3 "Raymond Avenue.AD\PE00G003.PLT" 44

PLOTFILE PERIOD SLINE4 "Raymond Avenue.AD\PE00G004.PLT" 45

PLOTFILE PERIOD SLINE5 "Raymond Avenue.AD\PE00G005.PLT" 46

PLOTFILE PERIOD VOL1 "Raymond Avenue.AD\PE00G006.PLT" 47  
PLOTFILE PERIOD VOL2 "Raymond Avenue.AD\PE00G007.PLT" 48  
PLOTFILE PERIOD VOL3 "Raymond Avenue.AD\PE00G008.PLT" 49  
PLOTFILE PERIOD VOL4 "Raymond Avenue.AD\PE00G009.PLT" 50  
PLOTFILE PERIOD VOL5 "Raymond Avenue.AD\PE00G010.PLT" 51  
PLOTFILE PERIOD VOL6 "Raymond Avenue.AD\PE00G011.PLT" 52  
SUMMFILE "Raymond Avenue.sum"  
OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 8 Warning Message(s)  
A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
SO W320 322 VPARM: Input Parameter May Be Out-of-Range for Parameter SZINIT  
SO W320 323 VPARM: Input Parameter May Be Out-of-Range for Parameter SZINIT  
SO W320 324 VPARM: Input Parameter May Be Out-of-Range for Parameter SZINIT  
SO W320 325 VPARM: Input Parameter May Be Out-of-Range for Parameter SZINIT  
SO W320 326 VPARM: Input Parameter May Be Out-of-Range for Parameter SZINIT  
SO W320 488 VPARM: Input Parameter May Be Out-of-Range for Parameter SZINIT  
ME W186 812 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 812 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

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

\*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* 20:02:04

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* 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 170 Source(s),  
for Total of 1 Urban Area(s):

Urban Population = 143617.0 ; Urban Roughness Length = 1.000 m

**\*\*Model Allows User-Specified Options:**

1. Stack-tip Downwash.
2. Model Assumes Receptors on FLAT Terrain.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay.
6. Urban Roughness Length of 1.0 Meter Used.

**\*\*Other Options Specified:**

ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET  
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: OTHER**

**\*\*Model Calculates 1 Short Term Average(s) of: 1-HR  
and Calculates PERIOD Averages**

**\*\*This Run Includes: 170 Source(s); 11 Source Group(s); and 263 Receptor(s)**

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 170 VOLUME source(s)  
and: 0 AREA type source(s)  
and: 0 LINE source(s)  
and: 0 RLINE/RLINEXT 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: 16216**

**\*\*Output Options Selected:**

Model Outputs Tables of PERIOD Averages by Receptor  
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)  
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) = 28.96 ; 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 = 3.7 MB of RAM.**

**\*\*Input Runstream File: aermod.inp**

**\*\*Output Print File: aermod.out**

\*\*Detailed Error/Message File: Raymond Avenue.err

\*\*File for Summary of Results: Raymond Avenue.sum

\*\*\* AERMOD - VERSION 19191 \*\*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 20:02:04

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

| SOURCE ID | PART. CATS. | NUMBER EMISSION RATE (GRAMS/SEC) (METERS) | X (METERS) | Y (METERS) | BASE ELEV. (METERS) | RELEASE HEIGHT (METERS) | INIT. SY (METERS) | INIT. SZ (METERS) | URBAN EMISSION RATE SCALAR VARY BY |
|-----------|-------------|-------------------------------------------|------------|------------|---------------------|-------------------------|-------------------|-------------------|------------------------------------|
| L0000001  | 0           | 0.90909E-01                               | 416164.4   | 3746467.1  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000002  | 0           | 0.90909E-01                               | 416182.7   | 3746467.4  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000003  | 0           | 0.90909E-01                               | 416201.0   | 3746467.7  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000004  | 0           | 0.90909E-01                               | 416218.8   | 3746469.4  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000005  | 0           | 0.90909E-01                               | 416234.1   | 3746479.4  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000006  | 0           | 0.90909E-01                               | 416249.4   | 3746489.4  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000007  | 0           | 0.90909E-01                               | 416264.7   | 3746499.4  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000008  | 0           | 0.90909E-01                               | 416280.0   | 3746509.5  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000009  | 0           | 0.90909E-01                               | 416296.6   | 3746515.2  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000010  | 0           | 0.90909E-01                               | 416314.9   | 3746515.1  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000011  | 0           | 0.90909E-01                               | 416323.3   | 3746505.4  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| VOL1      | 0           | 0.10000E+01                               | 416322.8   | 3746504.6  | 29.0                | 1.83                    | 1.17              | 0.00              | YES                                |
| VOL2      | 0           | 0.10000E+01                               | 416312.8   | 3746504.6  | 29.0                | 1.83                    | 1.17              | 0.00              | YES                                |
| VOL3      | 0           | 0.10000E+01                               | 416302.8   | 3746504.6  | 29.0                | 1.83                    | 1.17              | 0.00              | YES                                |
| VOL4      | 0           | 0.10000E+01                               | 416332.8   | 3746504.6  | 29.0                | 1.83                    | 1.17              | 0.00              | YES                                |
| VOL5      | 0           | 0.10000E+01                               | 416342.8   | 3746504.6  | 29.0                | 1.83                    | 1.17              | 0.00              | YES                                |
| L0000023  | 0           | 0.23256E-01                               | 416783.7   | 3746335.6  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000024  | 0           | 0.23256E-01                               | 416765.4   | 3746335.5  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000025  | 0           | 0.23256E-01                               | 416747.2   | 3746335.4  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000026  | 0           | 0.23256E-01                               | 416728.9   | 3746335.3  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000027  | 0           | 0.23256E-01                               | 416710.6   | 3746335.3  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000028  | 0           | 0.23256E-01                               | 416692.3   | 3746335.2  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000029  | 0           | 0.23256E-01                               | 416674.0   | 3746335.1  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000030  | 0           | 0.23256E-01                               | 416655.7   | 3746335.0  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000031  | 0           | 0.23256E-01                               | 416637.4   | 3746334.9  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000032  | 0           | 0.23256E-01                               | 416619.1   | 3746334.8  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000033  | 0           | 0.23256E-01                               | 416600.8   | 3746334.7  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000034  | 0           | 0.23256E-01                               | 416582.6   | 3746334.7  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000035  | 0           | 0.23256E-01                               | 416564.3   | 3746334.6  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000036  | 0           | 0.23256E-01                               | 416546.0   | 3746334.5  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000037  | 0           | 0.23256E-01                               | 416527.7   | 3746334.4  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000038  | 0           | 0.23256E-01                               | 416509.4   | 3746334.3  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000039  | 0           | 0.23256E-01                               | 416491.1   | 3746334.2  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000040  | 0           | 0.23256E-01                               | 416472.8   | 3746334.1  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000041  | 0           | 0.23256E-01                               | 416454.5   | 3746334.0  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000042  | 0           | 0.23256E-01                               | 416436.3   | 3746334.0  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000043  | 0           | 0.23256E-01                               | 416418.4   | 3746337.4  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000044  | 0           | 0.23256E-01                               | 416400.5   | 3746341.2  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000045  | 0           | 0.23256E-01                               | 416382.3   | 3746343.3  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000046  | 0           | 0.23256E-01                               | 416364.2   | 3746345.3  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |

\*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

| SOURCE ID | PART. CATS. | NUMBER EMISSION RATE (GRAMS/SEC) (METERS) | X (METERS) | Y (METERS) | BASE ELEV. (METERS) | RELEASE HEIGHT (METERS) | INIT. SY (METERS) | INIT. SZ (METERS) | URBAN EMISSION RATE SCALAR VARY BY |
|-----------|-------------|-------------------------------------------|------------|------------|---------------------|-------------------------|-------------------|-------------------|------------------------------------|
| L0000047  | 0           | 0.23256E-01                               | 416346.0   | 3746347.4  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000048  | 0           | 0.23256E-01                               | 416327.8   | 3746349.5  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000049  | 0           | 0.23256E-01                               | 416309.7   | 3746351.6  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000050  | 0           | 0.23256E-01                               | 416291.5   | 3746353.7  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000051  | 0           | 0.23256E-01                               | 416273.3   | 3746355.8  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000052  | 0           | 0.23256E-01                               | 416255.2   | 3746357.9  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000053  | 0           | 0.23256E-01                               | 416237.0   | 3746359.9  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000054  | 0           | 0.23256E-01                               | 416219.2   | 3746364.0  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000055  | 0           | 0.23256E-01                               | 416201.8   | 3746369.5  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000056  | 0           | 0.23256E-01                               | 416184.3   | 3746375.0  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000057  | 0           | 0.23256E-01                               | 416166.9   | 3746380.5  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000058  | 0           | 0.23256E-01                               | 416149.5   | 3746386.0  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000059  | 0           | 0.23256E-01                               | 416132.0   | 3746391.4  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000060  | 0           | 0.23256E-01                               | 416125.4   | 3746404.7  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000061  | 0           | 0.23256E-01                               | 416125.7   | 3746423.0  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000062  | 0           | 0.23256E-01                               | 416126.1   | 3746441.3  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000063  | 0           | 0.23256E-01                               | 416126.4   | 3746459.6  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000064  | 0           | 0.23256E-01                               | 416138.6   | 3746466.1  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000065  | 0           | 0.23256E-01                               | 416156.8   | 3746466.6  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000066  | 0           | 0.40000E-01                               | 416153.0   | 3746465.0  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000067  | 0           | 0.40000E-01                               | 416134.7   | 3746465.0  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000068  | 0           | 0.40000E-01                               | 416116.8   | 3746464.6  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000069  | 0           | 0.40000E-01                               | 416116.0   | 3746446.3  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000070  | 0           | 0.40000E-01                               | 416115.2   | 3746428.0  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000071  | 0           | 0.40000E-01                               | 416114.3   | 3746409.7  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000072  | 0           | 0.40000E-01                               | 416113.5   | 3746391.5  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000073  | 0           | 0.40000E-01                               | 416096.7   | 3746387.5  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000074  | 0           | 0.40000E-01                               | 416078.6   | 3746384.6  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000075  | 0           | 0.40000E-01                               | 416060.6   | 3746381.5  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000076  | 0           | 0.40000E-01                               | 416042.7   | 3746377.6  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000077  | 0           | 0.40000E-01                               | 416024.9   | 3746373.6  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000078  | 0           | 0.40000E-01                               | 416007.0   | 3746369.6  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000079  | 0           | 0.40000E-01                               | 415989.2   | 3746365.7  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000080  | 0           | 0.40000E-01                               | 415971.3   | 3746361.7  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000081  | 0           | 0.40000E-01                               | 415953.4   | 3746357.7  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000082  | 0           | 0.40000E-01                               | 415935.6   | 3746353.8  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000083  | 0           | 0.40000E-01                               | 415917.7   | 3746349.8  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000084  | 0           | 0.40000E-01                               | 415899.9   | 3746345.8  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000085  | 0           | 0.40000E-01                               | 415882.0   | 3746342.1  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000086  | 0           | 0.40000E-01                               | 415863.8   | 3746340.4  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

## \*\*\* VOLUME SOURCE DATA \*\*\*

| SOURCE ID | NUMBER PART. CATS. | EMISSION RATE (GRAMS/SEC) (METERS) | BASE X Y           | RELEASE ELEV. (METERS) | INIT. HEIGHT (METERS) | INIT. SY SZ | URBAN SOURCE | EMISSION RATE SCALAR VARY BY |
|-----------|--------------------|------------------------------------|--------------------|------------------------|-----------------------|-------------|--------------|------------------------------|
| L0000087  | 0                  | 0.40000E-01                        | 415845.6 3746338.7 | 29.0                   | 0.00                  | 8.51 4.25   | YES          |                              |
| L0000088  | 0                  | 0.40000E-01                        | 415827.4 3746337.0 | 29.0                   | 0.00                  | 8.51 4.25   | YES          |                              |
| L0000089  | 0                  | 0.40000E-01                        | 415809.2 3746335.3 | 29.0                   | 0.00                  | 8.51 4.25   | YES          |                              |
| L0000090  | 0                  | 0.40000E-01                        | 415791.0 3746333.6 | 29.0                   | 0.00                  | 8.51 4.25   | YES          |                              |
| L0000091  | 0                  | 0.30303E-01                        | 415792.1 3746297.0 | 29.0                   | 0.00                  | 8.51 4.25   | YES          |                              |
| L0000092  | 0                  | 0.30303E-01                        | 415810.4 3746295.6 | 29.0                   | 0.00                  | 8.51 4.25   | YES          |                              |
| L0000093  | 0                  | 0.30303E-01                        | 415828.6 3746294.1 | 29.0                   | 0.00                  | 8.51 4.25   | YES          |                              |
| L0000094  | 0                  | 0.30303E-01                        | 415846.8 3746292.6 | 29.0                   | 0.00                  | 8.51 4.25   | YES          |                              |
| L0000095  | 0                  | 0.30303E-01                        | 415865.1 3746291.1 | 29.0                   | 0.00                  | 8.51 4.25   | YES          |                              |
| L0000096  | 0                  | 0.30303E-01                        | 415883.3 3746289.6 | 29.0                   | 0.00                  | 8.51 4.25   | YES          |                              |
| L0000097  | 0                  | 0.30303E-01                        | 415901.5 3746288.1 | 29.0                   | 0.00                  | 8.51 4.25   | YES          |                              |
| L0000098  | 0                  | 0.30303E-01                        | 415919.7 3746286.6 | 29.0                   | 0.00                  | 8.51 4.25   | YES          |                              |
| L0000099  | 0                  | 0.30303E-01                        | 415938.0 3746285.2 | 29.0                   | 0.00                  | 8.51 4.25   | YES          |                              |
| L0000100  | 0                  | 0.30303E-01                        | 415956.2 3746283.7 | 29.0                   | 0.00                  | 8.51 4.25   | YES          |                              |
| L0000101  | 0                  | 0.30303E-01                        | 415974.4 3746282.2 | 29.0                   | 0.00                  | 8.51 4.25   | YES          |                              |
| L0000102  | 0                  | 0.30303E-01                        | 415992.7 3746280.7 | 29.0                   | 0.00                  | 8.51 4.25   | YES          |                              |
| L0000103  | 0                  | 0.30303E-01                        | 416010.9 3746279.2 | 29.0                   | 0.00                  | 8.51 4.25   | YES          |                              |
| L0000104  | 0                  | 0.30303E-01                        | 416028.8 3746276.0 | 29.0                   | 0.00                  | 8.51 4.25   | YES          |                              |
| L0000105  | 0                  | 0.30303E-01                        | 416046.5 3746271.4 | 29.0                   | 0.00                  | 8.51 4.25   | YES          |                              |
| L0000106  | 0                  | 0.30303E-01                        | 416064.2 3746266.7 | 29.0                   | 0.00                  | 8.51 4.25   | YES          |                              |
| L0000107  | 0                  | 0.30303E-01                        | 416081.9 3746262.0 | 29.0                   | 0.00                  | 8.51 4.25   | YES          |                              |
| L0000108  | 0                  | 0.30303E-01                        | 416099.5 3746257.4 | 29.0                   | 0.00                  | 8.51 4.25   | YES          |                              |
| L0000109  | 0                  | 0.30303E-01                        | 416117.2 3746252.7 | 29.0                   | 0.00                  | 8.51 4.25   | YES          |                              |
| L0000110  | 0                  | 0.30303E-01                        | 416126.0 3746259.5 | 29.0                   | 0.00                  | 8.51 4.25   | YES          |                              |
| L0000111  | 0                  | 0.30303E-01                        | 416125.8 3746277.8 | 29.0                   | 0.00                  | 8.51 4.25   | YES          |                              |
| L0000112  | 0                  | 0.30303E-01                        | 416125.6 3746296.1 | 29.0                   | 0.00                  | 8.51 4.25   | YES          |                              |
| L0000113  | 0                  | 0.30303E-01                        | 416125.4 3746314.4 | 29.0                   | 0.00                  | 8.51 4.25   | YES          |                              |
| L0000114  | 0                  | 0.30303E-01                        | 416125.3 3746332.7 | 29.0                   | 0.00                  | 8.51 4.25   | YES          |                              |
| L0000115  | 0                  | 0.30303E-01                        | 416125.1 3746351.0 | 29.0                   | 0.00                  | 8.51 4.25   | YES          |                              |
| L0000116  | 0                  | 0.30303E-01                        | 416124.9 3746369.3 | 29.0                   | 0.00                  | 8.51 4.25   | YES          |                              |
| L0000117  | 0                  | 0.30303E-01                        | 416124.7 3746387.5 | 29.0                   | 0.00                  | 8.51 4.25   | YES          |                              |
| L0000118  | 0                  | 0.30303E-01                        | 416124.6 3746405.8 | 29.0                   | 0.00                  | 8.51 4.25   | YES          |                              |
| L0000119  | 0                  | 0.30303E-01                        | 416124.4 3746424.1 | 29.0                   | 0.00                  | 8.51 4.25   | YES          |                              |
| L0000120  | 0                  | 0.30303E-01                        | 416124.2 3746442.4 | 29.0                   | 0.00                  | 8.51 4.25   | YES          |                              |
| L0000121  | 0                  | 0.30303E-01                        | 416124.0 3746460.7 | 29.0                   | 0.00                  | 8.51 4.25   | YES          |                              |
| L0000122  | 0                  | 0.30303E-01                        | 416135.9 3746467.3 | 29.0                   | 0.00                  | 8.51 4.25   | YES          |                              |
| L0000123  | 0                  | 0.30303E-01                        | 416154.2 3746467.7 | 29.0                   | 0.00                  | 8.51 4.25   | YES          |                              |
| L0000124  | 0                  | 0.19231E-01                        | 416158.4 3746465.4 | 29.0                   | 0.00                  | 8.51 4.25   | YES          |                              |
| L0000125  | 0                  | 0.19231E-01                        | 416140.2 3746465.6 | 29.0                   | 0.00                  | 8.51 4.25   | YES          |                              |
| L0000126  | 0                  | 0.19231E-01                        | 416121.9 3746465.8 | 29.0                   | 0.00                  | 8.51 4.25   | YES          |                              |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

| SOURCE ID | PART. CATS. | EMISSION RATE (GRAMS/SEC) (METERS) | X (METERS) | Y (METERS) | BASE ELEV. (METERS) | RELEASE HEIGHT (METERS) | INIT. SY (METERS) | INIT. SZ (METERS) | URBAN EMISSION RATE SCALAR VARY BY |
|-----------|-------------|------------------------------------|------------|------------|---------------------|-------------------------|-------------------|-------------------|------------------------------------|
| L0000127  | 0           | 0.19231E-01                        | 416116.3   | 3746451.6  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000128  | 0           | 0.19231E-01                        | 416116.1   | 3746433.3  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000129  | 0           | 0.19231E-01                        | 416115.9   | 3746415.0  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000130  | 0           | 0.19231E-01                        | 416115.7   | 3746396.7  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000131  | 0           | 0.19231E-01                        | 416115.6   | 3746378.4  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000132  | 0           | 0.19231E-01                        | 416115.4   | 3746360.1  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000133  | 0           | 0.19231E-01                        | 416115.2   | 3746341.8  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000134  | 0           | 0.19231E-01                        | 416115.0   | 3746323.6  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000135  | 0           | 0.19231E-01                        | 416114.8   | 3746305.3  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000136  | 0           | 0.19231E-01                        | 416114.7   | 3746287.0  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000137  | 0           | 0.19231E-01                        | 416114.5   | 3746268.7  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000138  | 0           | 0.19231E-01                        | 416114.3   | 3746250.4  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000139  | 0           | 0.19231E-01                        | 416132.6   | 3746250.8  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000140  | 0           | 0.19231E-01                        | 416150.2   | 3746255.5  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000141  | 0           | 0.19231E-01                        | 416167.7   | 3746260.7  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000142  | 0           | 0.19231E-01                        | 416185.3   | 3746265.8  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000143  | 0           | 0.19231E-01                        | 416202.8   | 3746271.0  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000144  | 0           | 0.19231E-01                        | 416220.4   | 3746276.1  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000145  | 0           | 0.19231E-01                        | 416237.9   | 3746281.3  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000146  | 0           | 0.19231E-01                        | 416255.5   | 3746286.4  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000147  | 0           | 0.19231E-01                        | 416273.1   | 3746291.3  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000148  | 0           | 0.19231E-01                        | 416291.2   | 3746293.3  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000149  | 0           | 0.19231E-01                        | 416309.4   | 3746295.2  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000150  | 0           | 0.19231E-01                        | 416327.6   | 3746297.2  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000151  | 0           | 0.19231E-01                        | 416345.8   | 3746299.2  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000152  | 0           | 0.19231E-01                        | 416364.0   | 3746301.1  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000153  | 0           | 0.19231E-01                        | 416382.2   | 3746303.1  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000154  | 0           | 0.19231E-01                        | 416400.3   | 3746305.1  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000155  | 0           | 0.19231E-01                        | 416418.5   | 3746307.0  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000156  | 0           | 0.19231E-01                        | 416436.7   | 3746308.8  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000157  | 0           | 0.19231E-01                        | 416455.0   | 3746308.8  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000158  | 0           | 0.19231E-01                        | 416473.3   | 3746308.9  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000159  | 0           | 0.19231E-01                        | 416491.6   | 3746309.0  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000160  | 0           | 0.19231E-01                        | 416509.9   | 3746309.0  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000161  | 0           | 0.19231E-01                        | 416528.2   | 3746309.1  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000162  | 0           | 0.19231E-01                        | 416546.4   | 3746309.1  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000163  | 0           | 0.19231E-01                        | 416564.7   | 3746309.2  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000164  | 0           | 0.19231E-01                        | 416583.0   | 3746309.3  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000165  | 0           | 0.19231E-01                        | 416601.3   | 3746309.3  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |
| L0000166  | 0           | 0.19231E-01                        | 416619.6   | 3746309.4  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                                |

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\*\*\* AERMET - VERSION 16216 \*\*\*

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

| SOURCE ID | NUMBER PART. CATS. | EMISSION RATE (GRAMS/SEC) (METERS) | X (METERS) | Y (METERS) | BASE ELEV. (METERS) | RELEASE HEIGHT (METERS) | INIT. SY (METERS) | INIT. SZ (METERS) | URBAN SOURCE SCALAR VARY BY |
|-----------|--------------------|------------------------------------|------------|------------|---------------------|-------------------------|-------------------|-------------------|-----------------------------|
| L0000167  | 0                  | 0.19231E-01                        | 416637.9   | 3746309.5  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                         |
| L0000168  | 0                  | 0.19231E-01                        | 416656.2   | 3746309.5  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                         |
| L0000169  | 0                  | 0.19231E-01                        | 416674.5   | 3746309.6  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                         |
| L0000170  | 0                  | 0.19231E-01                        | 416692.7   | 3746309.7  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                         |
| L0000171  | 0                  | 0.19231E-01                        | 416711.0   | 3746309.7  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                         |
| L0000172  | 0                  | 0.19231E-01                        | 416729.3   | 3746309.8  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                         |
| L0000173  | 0                  | 0.19231E-01                        | 416747.6   | 3746309.9  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                         |
| L0000174  | 0                  | 0.19231E-01                        | 416765.9   | 3746309.9  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                         |
| L0000175  | 0                  | 0.19231E-01                        | 416784.2   | 3746310.0  | 29.0                | 0.00                    | 8.51              | 4.25              | YES                         |
| VOL6      | 0                  | 0.10000E+01                        | 416286.5   | 3746449.8  | 29.0                | 0.00                    | 11.13             | 0.00              | YES                         |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID

SOURCE IDs

```

-----
SLINE1  L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 ,
        L0000009 , L0000010 , L0000011 ,

SLINE2  L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , L0000029 , L0000030 ,
        L0000031 , L0000032 , L0000033 , L0000034 , L0000035 , L0000036 , L0000037 , L0000038 ,
        L0000039 , L0000040 , L0000041 , L0000042 , L0000043 , L0000044 , L0000045 , L0000046 ,
        L0000047 , L0000048 , L0000049 , L0000050 , L0000051 , L0000052 , L0000053 , L0000054 ,
        L0000055 , L0000056 , L0000057 , L0000058 , L0000059 , L0000060 , L0000061 , L0000062 ,
        L0000063 , L0000064 , L0000065 ,

SLINE3  L0000066 , L0000067 , L0000068 , L0000069 , L0000070 , L0000071 , L0000072 , L0000073 ,
        L0000074 , L0000075 , L0000076 , L0000077 , L0000078 , L0000079 , L0000080 , L0000081 ,
        L0000082 , L0000083 , L0000084 , L0000085 , L0000086 , L0000087 , L0000088 , L0000089 ,
        L0000090 ,

SLINE4  L0000091 , L0000092 , L0000093 , L0000094 , L0000095 , L0000096 , L0000097 , L0000098 ,

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L0000099 , L0000100 , L0000101 , L0000102 , L0000103 , L0000104 , L0000105 , L0000106 ,  
L0000107 , L0000108 , L0000109 , L0000110 , L0000111 , L0000112 , L0000113 , L0000114 ,  
L0000115 , L0000116 , L0000117 , L0000118 , L0000119 , L0000120 , L0000121 , L0000122 ,  
L0000123 ,

SLINE5 L0000124 , L0000125 , L0000126 , L0000127 , L0000128 , L0000129 , L0000130 , L0000131 ,  
L0000132 , L0000133 , L0000134 , L0000135 , L0000136 , L0000137 , L0000138 , L0000139 ,  
L0000140 , L0000141 , L0000142 , L0000143 , L0000144 , L0000145 , L0000146 , L0000147 ,

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID

SOURCE IDs

-----

-----

L0000148 , L0000149 , L0000150 , L0000151 , L0000152 , L0000153 , L0000154 , L0000155 ,  
L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , L0000161 , L0000162 , L0000163 ,  
L0000164 , L0000165 , L0000166 , L0000167 , L0000168 , L0000169 , L0000170 , L0000171 ,  
L0000172 , L0000173 , L0000174 , L0000175 ,

VOL1 VOL1 ,

VOL2 VOL2 ,

VOL3 VOL3 ,

VOL4 VOL4 ,

VOL5 VOL5 ,

VOL6 VOL6 ,

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID URBAN POP

SOURCE IDs

-----

-----

143617. L0000001 ,L0000002 ,L0000003 ,L0000004 ,L0000005 ,L0000006 ,L0000007 ,  
L0000008 ,

L0000009 ,L0000010 ,L0000011 ,VOL1 ,VOL2 ,VOL3 ,VOL4 ,VOL5 ,  
L0000023 ,L0000024 ,L0000025 ,L0000026 ,L0000027 ,L0000028 ,L0000029 ,L0000030 ,  
L0000031 ,L0000032 ,L0000033 ,L0000034 ,L0000035 ,L0000036 ,L0000037 ,L0000038 ,  
L0000039 ,L0000040 ,L0000041 ,L0000042 ,L0000043 ,L0000044 ,L0000045 ,L0000046 ,  
L0000047 ,L0000048 ,L0000049 ,L0000050 ,L0000051 ,L0000052 ,L0000053 ,L0000054 ,  
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L0000063 ,L0000064 ,L0000065 ,L0000066 ,L0000067 ,L0000068 ,L0000069 ,L0000070 ,  
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L0000079 ,L0000080 ,L0000081 ,L0000082 ,L0000083 ,L0000084 ,L0000085 ,L0000086 ,  
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L0000095 ,L0000096 ,L0000097 ,L0000098 ,L0000099 ,L0000100 ,L0000101 ,L0000102 ,  
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L0000111 ,L0000112 ,L0000113 ,L0000114 ,L0000115 ,L0000116 ,L0000117 ,L0000118 ,  
L0000119 ,L0000120 ,L0000121 ,L0000122 ,L0000123 ,L0000124 ,L0000125 ,L0000126 ,  
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L0000135 ,L0000136 ,L0000137 ,L0000138 ,L0000139 ,L0000140 ,L0000141 ,L0000142 ,  
L0000143 ,L0000144 ,L0000145 ,L0000146 ,L0000147 ,L0000148 ,L0000149 ,L0000150 ,  
L0000151 ,L0000152 ,L0000153 ,L0000154 ,L0000155 ,L0000156 ,L0000157 ,L0000158 ,

L0000159 ,L0000160 ,L0000161 ,L0000162 ,L0000163 ,L0000164 ,L0000165 ,L0000166 ,

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID URBAN POP

SOURCE IDs

-----

-----

L0000167 ,L0000168 ,L0000169 ,L0000170 ,L0000171 ,L0000172 ,L0000173 ,L0000174 ,

\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

|                        |       |       |       |                        |       |       |       |
|------------------------|-------|-------|-------|------------------------|-------|-------|-------|
| ( 416018.8, 3746204.8, | 29.0, | 29.0, | 0.0); | ( 416068.8, 3746204.8, | 29.0, | 29.0, | 0.0); |
| ( 416118.8, 3746204.8, | 29.0, | 29.0, | 0.0); | ( 416168.8, 3746204.8, | 29.0, | 29.0, | 0.0); |
| ( 416218.8, 3746204.8, | 29.0, | 29.0, | 0.0); | ( 416268.8, 3746204.8, | 29.0, | 29.0, | 0.0); |
| ( 416318.8, 3746204.8, | 29.0, | 29.0, | 0.0); | ( 416368.8, 3746204.8, | 29.0, | 29.0, | 0.0); |
| ( 416418.8, 3746204.8, | 29.0, | 29.0, | 0.0); | ( 416468.8, 3746204.8, | 29.0, | 29.0, | 0.0); |
| ( 416518.8, 3746204.8, | 29.0, | 29.0, | 0.0); | ( 416018.8, 3746254.8, | 29.0, | 29.0, | 0.0); |
| ( 416068.8, 3746254.8, | 29.0, | 29.0, | 0.0); | ( 416118.8, 3746254.8, | 29.0, | 29.0, | 0.0); |
| ( 416168.8, 3746254.8, | 29.0, | 29.0, | 0.0); | ( 416218.8, 3746254.8, | 29.0, | 29.0, | 0.0); |
| ( 416268.8, 3746254.8, | 29.0, | 29.0, | 0.0); | ( 416318.8, 3746254.8, | 29.0, | 29.0, | 0.0); |
| ( 416368.8, 3746254.8, | 29.0, | 29.0, | 0.0); | ( 416418.8, 3746254.8, | 29.0, | 29.0, | 0.0); |
| ( 416468.8, 3746254.8, | 29.0, | 29.0, | 0.0); | ( 416518.8, 3746254.8, | 29.0, | 29.0, | 0.0); |
| ( 416018.8, 3746304.8, | 29.0, | 29.0, | 0.0); | ( 416068.8, 3746304.8, | 29.0, | 29.0, | 0.0); |
| ( 416118.8, 3746304.8, | 29.0, | 29.0, | 0.0); | ( 416168.8, 3746304.8, | 29.0, | 29.0, | 0.0); |
| ( 416218.8, 3746304.8, | 29.0, | 29.0, | 0.0); | ( 416268.8, 3746304.8, | 29.0, | 29.0, | 0.0); |
| ( 416318.8, 3746304.8, | 29.0, | 29.0, | 0.0); | ( 416368.8, 3746304.8, | 29.0, | 29.0, | 0.0); |
| ( 416418.8, 3746304.8, | 29.0, | 29.0, | 0.0); | ( 416468.8, 3746304.8, | 29.0, | 29.0, | 0.0); |
| ( 416518.8, 3746304.8, | 29.0, | 29.0, | 0.0); | ( 416018.8, 3746354.8, | 29.0, | 29.0, | 0.0); |
| ( 416068.8, 3746354.8, | 29.0, | 29.0, | 0.0); | ( 416118.8, 3746354.8, | 29.0, | 29.0, | 0.0); |
| ( 416168.8, 3746354.8, | 29.0, | 29.0, | 0.0); | ( 416218.8, 3746354.8, | 29.0, | 29.0, | 0.0); |
| ( 416268.8, 3746354.8, | 29.0, | 29.0, | 0.0); | ( 416318.8, 3746354.8, | 29.0, | 29.0, | 0.0); |
| ( 416368.8, 3746354.8, | 29.0, | 29.0, | 0.0); | ( 416418.8, 3746354.8, | 29.0, | 29.0, | 0.0); |
| ( 416468.8, 3746354.8, | 29.0, | 29.0, | 0.0); | ( 416518.8, 3746354.8, | 29.0, | 29.0, | 0.0); |
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| ( 416318.8, 3746404.8, | 29.0, | 29.0, | 0.0); | ( 416368.8, 3746404.8, | 29.0, | 29.0, | 0.0); |
| ( 416418.8, 3746404.8, | 29.0, | 29.0, | 0.0); | ( 416468.8, 3746404.8, | 29.0, | 29.0, | 0.0); |
| ( 416518.8, 3746404.8, | 29.0, | 29.0, | 0.0); | ( 416018.8, 3746454.8, | 29.0, | 29.0, | 0.0); |
| ( 416068.8, 3746454.8, | 29.0, | 29.0, | 0.0); | ( 416118.8, 3746454.8, | 29.0, | 29.0, | 0.0); |
| ( 416168.8, 3746454.8, | 29.0, | 29.0, | 0.0); | ( 416218.8, 3746454.8, | 29.0, | 29.0, | 0.0); |
| ( 416268.8, 3746454.8, | 29.0, | 29.0, | 0.0); | ( 416318.8, 3746454.8, | 29.0, | 29.0, | 0.0); |
| ( 416368.8, 3746454.8, | 29.0, | 29.0, | 0.0); | ( 416418.8, 3746454.8, | 29.0, | 29.0, | 0.0); |
| ( 416468.8, 3746454.8, | 29.0, | 29.0, | 0.0); | ( 416518.8, 3746454.8, | 29.0, | 29.0, | 0.0); |
| ( 416018.8, 3746504.8, | 29.0, | 29.0, | 0.0); | ( 416068.8, 3746504.8, | 29.0, | 29.0, | 0.0); |
| ( 416118.8, 3746504.8, | 29.0, | 29.0, | 0.0); | ( 416168.8, 3746504.8, | 29.0, | 29.0, | 0.0); |
| ( 416218.8, 3746504.8, | 29.0, | 29.0, | 0.0); | ( 416268.8, 3746504.8, | 29.0, | 29.0, | 0.0); |
| ( 416318.8, 3746504.8, | 29.0, | 29.0, | 0.0); | ( 416368.8, 3746504.8, | 29.0, | 29.0, | 0.0); |
| ( 416418.8, 3746504.8, | 29.0, | 29.0, | 0.0); | ( 416468.8, 3746504.8, | 29.0, | 29.0, | 0.0); |
| ( 416518.8, 3746504.8, | 29.0, | 29.0, | 0.0); | ( 416018.8, 3746554.8, | 29.0, | 29.0, | 0.0); |
| ( 416068.8, 3746554.8, | 29.0, | 29.0, | 0.0); | ( 416118.8, 3746554.8, | 29.0, | 29.0, | 0.0); |
| ( 416168.8, 3746554.8, | 29.0, | 29.0, | 0.0); | ( 416218.8, 3746554.8, | 29.0, | 29.0, | 0.0); |
| ( 416268.8, 3746554.8, | 29.0, | 29.0, | 0.0); | ( 416318.8, 3746554.8, | 29.0, | 29.0, | 0.0); |
| ( 416368.8, 3746554.8, | 29.0, | 29.0, | 0.0); | ( 416418.8, 3746554.8, | 29.0, | 29.0, | 0.0); |
| ( 416468.8, 3746554.8, | 29.0, | 29.0, | 0.0); | ( 416518.8, 3746554.8, | 29.0, | 29.0, | 0.0); |
| ( 416018.8, 3746604.8, | 29.0, | 29.0, | 0.0); | ( 416068.8, 3746604.8, | 29.0, | 29.0, | 0.0); |

\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

|                                          |                                          |
|------------------------------------------|------------------------------------------|
| ( 416118.8, 3746604.8, 29.0, 29.0, 0.0); | ( 416168.8, 3746604.8, 29.0, 29.0, 0.0); |
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| ( 416268.8, 3746654.8, 29.0, 29.0, 0.0); | ( 416318.8, 3746654.8, 29.0, 29.0, 0.0); |
| ( 416368.8, 3746654.8, 29.0, 29.0, 0.0); | ( 416418.8, 3746654.8, 29.0, 29.0, 0.0); |
| ( 416468.8, 3746654.8, 29.0, 29.0, 0.0); | ( 416518.8, 3746654.8, 29.0, 29.0, 0.0); |
| ( 416018.8, 3746704.8, 29.0, 29.0, 0.0); | ( 416068.8, 3746704.8, 29.0, 29.0, 0.0); |
| ( 416118.8, 3746704.8, 29.0, 29.0, 0.0); | ( 416168.8, 3746704.8, 29.0, 29.0, 0.0); |
| ( 416218.8, 3746704.8, 29.0, 29.0, 0.0); | ( 416268.8, 3746704.8, 29.0, 29.0, 0.0); |
| ( 416318.8, 3746704.8, 29.0, 29.0, 0.0); | ( 416368.8, 3746704.8, 29.0, 29.0, 0.0); |
| ( 416418.8, 3746704.8, 29.0, 29.0, 0.0); | ( 416468.8, 3746704.8, 29.0, 29.0, 0.0); |
| ( 416518.8, 3746704.8, 29.0, 29.0, 0.0); | ( 416302.6, 3746499.9, 29.0, 29.0, 0.0); |
| ( 416312.8, 3746498.8, 29.0, 29.0, 0.0); | ( 416322.8, 3746499.5, 29.0, 29.0, 0.0); |
| ( 416332.8, 3746498.8, 29.0, 29.0, 0.0); | ( 416342.4, 3746499.2, 29.0, 29.0, 0.0); |
| ( 416190.9, 3746435.2, 29.0, 29.0, 0.0); | ( 416189.8, 3746447.5, 29.0, 29.0, 0.0); |
| ( 416301.0, 3746253.8, 29.0, 29.0, 0.0); | ( 416335.3, 3746290.4, 29.0, 29.0, 0.0); |
| ( 416331.9, 3746279.5, 29.0, 29.0, 0.0); | ( 416361.9, 3746288.3, 29.0, 29.0, 0.0); |
| ( 416370.0, 3746286.5, 29.0, 29.0, 0.0); | ( 416384.1, 3746286.5, 29.0, 29.0, 0.0); |
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| ( 416406.4, 3746294.6, 29.0, 29.0, 0.0); | ( 416409.5, 3746291.2, 29.0, 29.0, 0.0); |
| ( 416422.3, 3746291.2, 29.0, 29.0, 0.0); | ( 416428.8, 3746288.9, 29.0, 29.0, 0.0); |
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| ( 416459.7, 3746291.8, 29.0, 29.0, 0.0); | ( 416466.2, 3746288.9, 29.0, 29.0, 0.0); |
| ( 416481.6, 3746287.0, 29.0, 29.0, 0.0); | ( 416485.3, 3746291.2, 29.0, 29.0, 0.0); |
| ( 416500.0, 3746291.0, 29.0, 29.0, 0.0); | ( 416505.4, 3746288.3, 29.0, 29.0, 0.0); |
| ( 416520.3, 3746287.3, 29.0, 29.0, 0.0); | ( 416525.6, 3746291.2, 29.0, 29.0, 0.0); |
| ( 416541.0, 3746294.6, 29.0, 29.0, 0.0); | ( 416545.2, 3746289.9, 29.0, 29.0, 0.0); |
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| ( 416578.6, 3746286.3, 29.0, 29.0, 0.0); | ( 416580.7, 3746290.2, 29.0, 29.0, 0.0); |
| ( 416595.4, 3746289.1, 29.0, 29.0, 0.0); | ( 416600.8, 3746291.5, 29.0, 29.0, 0.0); |
| ( 416615.0, 3746286.5, 29.0, 29.0, 0.0); | ( 416619.1, 3746289.7, 29.0, 29.0, 0.0); |
| ( 416629.3, 3746289.4, 29.0, 29.0, 0.0); | ( 416637.2, 3746292.5, 29.0, 29.0, 0.0); |
| ( 416650.0, 3746292.3, 29.0, 29.0, 0.0); | ( 416655.5, 3746286.5, 29.0, 29.0, 0.0); |
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| ( 416686.3, 3746289.1, 29.0, 29.0, 0.0); | ( 416691.0, 3746287.8, 29.0, 29.0, 0.0); |
| ( 416703.6, 3746287.8, 29.0, 29.0, 0.0); | ( 416709.1, 3746290.2, 29.0, 29.0, 0.0); |
| ( 416725.0, 3746283.6, 29.0, 29.0, 0.0); | ( 416718.2, 3746289.7, 29.0, 29.0, 0.0); |
| ( 416727.9, 3746288.1, 29.0, 29.0, 0.0); | ( 416740.2, 3746287.6, 29.0, 29.0, 0.0); |
| ( 416745.9, 3746284.4, 29.0, 29.0, 0.0); | ( 416761.1, 3746284.4, 29.0, 29.0, 0.0); |
| ( 416764.8, 3746287.0, 29.0, 29.0, 0.0); | ( 416777.3, 3746286.5, 29.0, 29.0, 0.0); |
| ( 416782.8, 3746288.1, 29.0, 29.0, 0.0); | ( 416572.6, 3746354.5, 29.0, 29.0, 0.0); |

\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

|                        |       |       |       |                        |       |       |       |
|------------------------|-------|-------|-------|------------------------|-------|-------|-------|
| ( 416583.6, 3746355.0, | 29.0, | 29.0, | 0.0); | ( 416576.5, 3746367.5, | 29.0, | 29.0, | 0.0); |
| ( 416582.8, 3746368.9, | 29.0, | 29.0, | 0.0); | ( 416586.2, 3746371.5, | 29.0, | 29.0, | 0.0); |
| ( 416587.3, 3746353.7, | 29.0, | 29.0, | 0.0); | ( 416600.1, 3746355.5, | 29.0, | 29.0, | 0.0); |
| ( 416605.0, 3746368.1, | 29.0, | 29.0, | 0.0); | ( 416612.6, 3746375.7, | 29.0, | 29.0, | 0.0); |
| ( 416609.0, 3746356.6, | 29.0, | 29.0, | 0.0); | ( 416621.8, 3746357.6, | 29.0, | 29.0, | 0.0); |
| ( 416622.3, 3746371.7, | 29.0, | 29.0, | 0.0); | ( 416625.7, 3746370.9, | 29.0, | 29.0, | 0.0); |
| ( 416640.3, 3746372.3, | 29.0, | 29.0, | 0.0); | ( 416625.9, 3746355.3, | 29.0, | 29.0, | 0.0); |
| ( 416635.6, 3746355.5, | 29.0, | 29.0, | 0.0); | ( 416641.9, 3746373.3, | 29.0, | 29.0, | 0.0); |
| ( 416654.2, 3746374.3, | 29.0, | 29.0, | 0.0); | ( 416643.2, 3746360.5, | 29.0, | 29.0, | 0.0); |
| ( 416652.6, 3746360.5, | 29.0, | 29.0, | 0.0); | ( 416656.8, 3746375.4, | 29.0, | 29.0, | 0.0); |
| ( 416663.6, 3746375.4, | 29.0, | 29.0, | 0.0); | ( 416658.1, 3746356.3, | 29.0, | 29.0, | 0.0); |
| ( 416668.3, 3746357.4, | 29.0, | 29.0, | 0.0); | ( 416672.2, 3746353.2, | 29.0, | 29.0, | 0.0); |
| ( 416676.9, 3746353.2, | 29.0, | 29.0, | 0.0); | ( 416731.8, 3746458.5, | 29.0, | 29.0, | 0.0); |
| ( 416731.0, 3746466.8, | 29.0, | 29.0, | 0.0); | ( 416742.0, 3746473.6, | 29.0, | 29.0, | 0.0); |
| ( 416731.0, 3746411.7, | 29.0, | 29.0, | 0.0); | ( 416731.0, 3746425.0, | 29.0, | 29.0, | 0.0); |
| ( 416681.6, 3746375.6, | 29.0, | 29.0, | 0.0); | ( 416698.1, 3746375.9, | 29.0, | 29.0, | 0.0); |
| ( 416703.6, 3746376.6, | 29.0, | 29.0, | 0.0); | ( 416703.6, 3746357.8, | 29.0, | 29.0, | 0.0); |
| ( 416714.6, 3746373.5, | 29.0, | 29.0, | 0.0); | ( 416724.0, 3746373.0, | 29.0, | 29.0, | 0.0); |
| ( 416749.8, 3746377.2, | 29.0, | 29.0, | 0.0); | ( 416759.0, 3746375.3, | 29.0, | 29.0, | 0.0); |
| ( 416774.2, 3746375.3, | 29.0, | 29.0, | 0.0); | ( 416758.2, 3746413.8, | 29.0, | 29.0, | 0.0); |
| ( 416756.6, 3746428.4, | 29.0, | 29.0, | 0.0); | ( 416751.2, 3746474.7, | 29.0, | 29.0, | 0.0); |
| ( 416781.5, 3746473.6, | 29.0, | 29.0, | 0.0); | ( 416756.4, 3746455.6, | 29.0, | 29.0, | 0.0); |
| ( 416773.9, 3746453.0, | 29.0, | 29.0, | 0.0); | ( 416140.3, 3746196.0, | 29.0, | 29.0, | 0.0); |
| ( 416158.3, 3746194.9, | 29.0, | 29.0, | 0.0); | ( 416172.6, 3746195.4, | 29.0, | 29.0, | 0.0); |
| ( 416190.1, 3746196.5, | 29.0, | 29.0, | 0.0); | ( 416220.0, 3746196.0, | 29.0, | 29.0, | 0.0); |
| ( 416239.6, 3746195.2, | 29.0, | 29.0, | 0.0); | ( 416250.8, 3746195.2, | 29.0, | 29.0, | 0.0); |
| ( 416267.2, 3746194.9, | 29.0, | 29.0, | 0.0); | ( 416086.5, 3746243.4, | 29.0, | 29.0, | 0.0); |
| ( 416067.2, 3746248.2, | 29.0, | 29.0, | 0.0); | ( 416057.4, 3746252.7, | 29.0, | 29.0, | 0.0); |
| ( 416049.7, 3746254.5, | 29.0, | 29.0, | 0.0); | ( 416043.6, 3746258.2, | 29.0, | 29.0, | 0.0); |
| ( 416038.3, 3746258.8, | 29.0, | 29.0, | 0.0); | ( 416032.5, 3746255.3, | 29.0, | 29.0, | 0.0); |
| ( 416026.1, 3746256.9, | 29.0, | 29.0, | 0.0); | ( 416013.4, 3746259.0, | 29.0, | 29.0, | 0.0); |
| ( 416008.9, 3746260.9, | 29.0, | 29.0, | 0.0); | ( 416004.9, 3746261.9, | 29.0, | 29.0, | 0.0); |
| ( 415999.3, 3746267.2, | 29.0, | 29.0, | 0.0); | ( 415984.8, 3746268.0, | 29.0, | 29.0, | 0.0); |
| ( 415970.5, 3746270.4, | 29.0, | 29.0, | 0.0); | ( 415958.5, 3746270.7, | 29.0, | 29.0, | 0.0); |
| ( 415946.6, 3746271.2, | 29.0, | 29.0, | 0.0); | ( 415936.8, 3746273.1, | 29.0, | 29.0, | 0.0); |
| ( 415924.1, 3746272.8, | 29.0, | 29.0, | 0.0); | ( 415913.5, 3746272.0, | 29.0, | 29.0, | 0.0); |
| ( 415899.5, 3746273.3, | 29.0, | 29.0, | 0.0); | ( 415883.3, 3746274.9, | 29.0, | 29.0, | 0.0); |
| ( 415892.3, 3746272.0, | 29.0, | 29.0, | 0.0); | ( 415864.2, 3746276.2, | 29.0, | 29.0, | 0.0); |
| ( 415856.8, 3746276.0, | 29.0, | 29.0, | 0.0); | ( 415843.8, 3746275.2, | 29.0, | 29.0, | 0.0); |
| ( 415834.3, 3746274.7, | 29.0, | 29.0, | 0.0); | ( 415821.5, 3746275.7, | 29.0, | 29.0, | 0.0); |
| ( 415809.6, 3746274.4, | 29.0, | 29.0, | 0.0); | ( 415797.4, 3746276.8, | 29.0, | 29.0, | 0.0); |
| ( 415787.1, 3746276.2, | 29.0, | 29.0, | 0.0); |                        |       |       |       |

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977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23

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\*\*\* 20:02:04

\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED

\*

LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

| SOURCE<br>ID | -- RECEPTOR LOCATION -- |           | DISTANCE<br>(METERS) |
|--------------|-------------------------|-----------|----------------------|
| -----        |                         |           |                      |
| L0000001     | 416168.8                | 3746454.8 | -5.26                |
| L0000002     | 416168.8                | 3746454.8 | 0.45                 |
| L0000004     | 416218.8                | 3746454.8 | -3.74                |
| L0000007     | 416268.8                | 3746504.8 | -11.56               |
| L0000008     | 416268.8                | 3746504.8 | -6.13                |
| L0000009     | 416302.6                | 3746499.9 | -1.82                |
| L0000010     | 416318.8                | 3746504.8 | -7.26                |
| L0000010     | 416312.8                | 3746498.8 | -1.82                |
| L0000010     | 416322.8                | 3746499.5 | -0.70                |
| L0000011     | 416318.8                | 3746504.8 | -13.72               |
| L0000011     | 416312.8                | 3746498.8 | -5.92                |
| L0000011     | 416322.8                | 3746499.5 | -12.37               |
| L0000011     | 416332.8                | 3746498.8 | -6.74                |
| L0000029     | 416672.2                | 3746353.2 | -0.12                |
| L0000029     | 416676.9                | 3746353.2 | 0.03                 |
| L0000043     | 416418.8                | 3746354.8 | -0.91                |
| L0000045     | 416368.8                | 3746354.8 | -0.48                |
| L0000046     | 416368.8                | 3746354.8 | -7.74                |
| L0000048     | 416318.8                | 3746354.8 | -7.81                |
| L0000049     | 416318.8                | 3746354.8 | -8.61                |
| L0000051     | 416268.8                | 3746354.8 | -13.67               |
| L0000052     | 416268.8                | 3746354.8 | -4.33                |
| L0000053     | 416218.8                | 3746354.8 | 0.61                 |
| L0000054     | 416218.8                | 3746354.8 | -9.11                |
| L0000059     | 416118.8                | 3746404.8 | 0.52                 |
| L0000060     | 416118.8                | 3746404.8 | -11.67               |
| L0000062     | 416118.8                | 3746454.8 | -2.96                |
| L0000063     | 416118.8                | 3746454.8 | -9.34                |
| L0000065     | 416168.8                | 3746454.8 | -1.53                |
| L0000066     | 416168.8                | 3746454.8 | 0.48                 |
| L0000067     | 416118.8                | 3746454.8 | 0.56                 |
| L0000068     | 416118.8                | 3746454.8 | -8.37                |
| L0000069     | 416118.8                | 3746454.8 | -9.30                |
| L0000071     | 416118.8                | 3746404.8 | -11.66               |
| L0000072     | 416118.8                | 3746404.8 | -3.94                |
| L0000078     | 416018.8                | 3746354.8 | 0.63                 |
| L0000094     | 415843.8                | 3746275.2 | -0.64                |
| L0000095     | 415864.2                | 3746276.2 | -3.42                |
| L0000095     | 415856.8                | 3746276.0 | -1.07                |
| L0000096     | 415883.3                | 3746274.9 | -3.60                |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED

\*

LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

| SOURCE<br>ID | -- RECEPTOR LOCATION -- |             | DISTANCE |
|--------------|-------------------------|-------------|----------|
|              | XR (METERS)             | YR (METERS) | (METERS) |
| -----        |                         |             |          |
| L0000097     | 415899.5                | 3746273.3   | -3.36    |
| L0000097     | 415892.3                | 3746272.0   | 0.27     |
| L0000098     | 415924.1                | 3746272.8   | -3.79    |
| L0000098     | 415913.5                | 3746272.0   | -2.39    |
| L0000099     | 415946.6                | 3746271.2   | -1.89    |
| L0000099     | 415936.8                | 3746273.1   | -6.16    |
| L0000099     | 415924.1                | 3746272.8   | 0.28     |
| L0000100     | 415958.5                | 3746270.7   | -5.10    |
| L0000100     | 415946.6                | 3746271.2   | -2.58    |
| L0000101     | 415984.8                | 3746268.0   | -0.77    |
| L0000101     | 415970.5                | 3746270.4   | -5.88    |
| L0000102     | 415999.3                | 3746267.2   | -3.27    |
| L0000102     | 415984.8                | 3746268.0   | -3.37    |
| L0000103     | 416008.9                | 3746260.9   | 0.14     |
| L0000103     | 416004.9                | 3746261.9   | -0.02    |
| L0000103     | 415999.3                | 3746267.2   | -1.66    |
| L0000105     | 416049.7                | 3746254.5   | -1.15    |
| L0000105     | 416043.6                | 3746258.2   | -4.84    |
| L0000105     | 416038.3                | 3746258.8   | -3.25    |
| L0000106     | 416068.8                | 3746254.8   | -5.56    |
| L0000106     | 416067.2                | 3746248.2   | 0.48     |
| L0000106     | 416057.4                | 3746252.7   | -2.69    |
| L0000106     | 416049.7                | 3746254.5   | 0.65     |
| L0000107     | 416068.8                | 3746254.8   | -3.37    |
| L0000107     | 416086.5                | 3746243.4   | 0.92     |
| L0000108     | 416086.5                | 3746243.4   | 0.83     |
| L0000109     | 416118.8                | 3746254.8   | -15.66   |
| L0000110     | 416118.8                | 3746254.8   | -9.71    |
| L0000112     | 416118.8                | 3746304.8   | -7.22    |
| L0000113     | 416118.8                | 3746304.8   | -6.64    |
| L0000115     | 416118.8                | 3746354.8   | -10.91   |
| L0000116     | 416118.8                | 3746354.8   | -2.62    |
| L0000117     | 416118.8                | 3746404.8   | -0.02    |
| L0000118     | 416118.8                | 3746404.8   | -12.45   |
| L0000120     | 416118.8                | 3746454.8   | -4.75    |
| L0000121     | 416118.8                | 3746454.8   | -10.44   |
| L0000124     | 416168.8                | 3746454.8   | -3.48    |
| L0000126     | 416118.8                | 3746454.8   | -6.90    |
| L0000127     | 416118.8                | 3746454.8   | -14.17   |
| L0000129     | 416118.8                | 3746404.8   | -7.74    |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED

\*

LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

| SOURCE<br>ID | - - RECEPTOR LOCATION - -<br>XR (METERS) YR (METERS) | DISTANCE<br>(METERS) |
|--------------|------------------------------------------------------|----------------------|
|--------------|------------------------------------------------------|----------------------|

|          |                    |        |
|----------|--------------------|--------|
| L0000130 | 416118.8 3746404.8 | -9.61  |
| L0000132 | 416118.8 3746354.8 | -12.00 |
| L0000133 | 416118.8 3746354.8 | -4.82  |
| L0000134 | 416118.8 3746304.8 | 0.80   |
| L0000135 | 416118.8 3746304.8 | -14.32 |
| L0000136 | 416118.8 3746304.8 | 0.03   |
| L0000137 | 416118.8 3746254.8 | -3.78  |
| L0000138 | 416118.8 3746254.8 | -11.99 |
| L0000139 | 416118.8 3746254.8 | -3.94  |
| L0000140 | 416168.8 3746254.8 | 0.34   |
| L0000141 | 416168.8 3746254.8 | -12.34 |
| L0000147 | 416268.8 3746304.8 | -4.11  |
| L0000149 | 416318.8 3746304.8 | -4.89  |
| L0000150 | 416318.8 3746304.8 | -6.64  |
| L0000150 | 416335.3 3746290.4 | -8.08  |
| L0000150 | 416331.9 3746279.5 | -0.05  |
| L0000151 | 416335.3 3746290.4 | -4.63  |
| L0000152 | 416368.8 3746304.8 | -12.23 |
| L0000152 | 416361.9 3746288.3 | -5.34  |
| L0000152 | 416370.0 3746286.5 | -2.47  |
| L0000153 | 416368.8 3746304.8 | -4.82  |
| L0000153 | 416384.1 3746286.5 | -1.59  |
| L0000153 | 416388.6 3746285.7 | 0.23   |
| L0000154 | 416418.8 3746304.8 | 0.16   |
| L0000154 | 416400.1 3746294.1 | -7.32  |
| L0000154 | 416406.4 3746294.6 | -6.22  |
| L0000154 | 416409.5 3746291.2 | -1.69  |
| L0000155 | 416418.8 3746304.8 | -16.07 |
| L0000155 | 416406.4 3746294.6 | -0.92  |
| L0000155 | 416409.5 3746291.2 | -0.10  |
| L0000155 | 416422.3 3746291.2 | -2.03  |
| L0000156 | 416418.8 3746304.8 | 0.05   |
| L0000157 | 416468.8 3746304.8 | -3.94  |
| L0000157 | 416448.2 3746291.8 | 0.09   |
| L0000157 | 416459.7 3746291.8 | -0.59  |
| L0000158 | 416468.8 3746304.8 | -12.24 |
| L0000159 | 416485.3 3746291.2 | 0.50   |
| L0000160 | 416518.8 3746304.8 | -8.44  |
| L0000161 | 416518.8 3746304.8 | -8.01  |
| L0000161 | 416525.6 3746291.2 | -0.26  |

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\*\*\* AERMET - VERSION 16216 \*\*\*

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED

\*

LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

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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

|    |    |    |   |    |        |        |        |        |       |       |          |      |      |      |      |      |      |       |     |
|----|----|----|---|----|--------|--------|--------|--------|-------|-------|----------|------|------|------|------|------|------|-------|-----|
| 12 | 01 | 01 | 1 | 01 | -4.8   | 0.098  | -9.000 | -9.000 | -999. | 74.   | 18.0     | 0.26 | 2.61 | 1.00 | 0.96 | 322. | 10.1 | 283.8 | 2.0 |
| 12 | 01 | 01 | 1 | 02 | -1.9   | 0.072  | -9.000 | -9.000 | -999. | 47.   | 18.0     | 0.26 | 2.61 | 1.00 | 0.52 | 13.  | 10.1 | 283.1 | 2.0 |
| 12 | 01 | 01 | 1 | 03 | -3.1   | 0.083  | -9.000 | -9.000 | -999. | 57.   | 16.3     | 0.26 | 2.61 | 1.00 | 0.75 | 73.  | 10.1 | 282.0 | 2.0 |
| 12 | 01 | 01 | 1 | 04 | -4.3   | 0.094  | -9.000 | -9.000 | -999. | 69.   | 17.3     | 0.26 | 2.61 | 1.00 | 0.91 | 98.  | 10.1 | 281.4 | 2.0 |
| 12 | 01 | 01 | 1 | 05 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.26 | 2.61 | 1.00 | 0.00 | 0.   | 10.1 | 280.9 | 2.0 |
| 12 | 01 | 01 | 1 | 06 | -2.1   | 0.074  | -9.000 | -9.000 | -999. | 48.   | 17.6     | 0.26 | 2.61 | 1.00 | 0.55 | 80.  | 10.1 | 280.4 | 2.0 |
| 12 | 01 | 01 | 1 | 07 | -2.8   | 0.080  | -9.000 | -9.000 | -999. | 54.   | 16.3     | 0.26 | 2.61 | 1.00 | 0.69 | 201. | 10.1 | 280.4 | 2.0 |
| 12 | 01 | 01 | 1 | 08 | -1.5   | 0.066  | -9.000 | -9.000 | -999. | 41.   | 17.0     | 0.26 | 2.61 | 0.54 | 0.52 | 72.  | 10.1 | 280.9 | 2.0 |
| 12 | 01 | 01 | 1 | 09 | 37.4   | -9.000 | -9.000 | -9.000 | 38.   | -999. | -99999.0 | 0.26 | 2.61 | 0.31 | 0.00 | 0.   | 10.1 | 285.9 | 2.0 |
| 12 | 01 | 01 | 1 | 10 | 109.1  | 0.151  | 0.713  | 0.008  | 121.  | 141.  | -2.9     | 0.26 | 2.61 | 0.24 | 0.79 | 268. | 10.1 | 289.9 | 2.0 |
| 12 | 01 | 01 | 1 | 11 | 160.5  | 0.148  | 1.143  | 0.005  | 338.  | 136.  | -1.8     | 0.26 | 2.61 | 0.21 | 0.70 | 273. | 10.1 | 294.2 | 2.0 |
| 12 | 01 | 01 | 1 | 12 | 186.9  | 0.156  | 1.483  | 0.005  | 634.  | 148.  | -1.8     | 0.26 | 2.61 | 0.20 | 0.74 | 230. | 10.1 | 297.5 | 2.0 |
| 12 | 01 | 01 | 1 | 13 | 187.4  | 0.210  | 1.777  | 0.005  | 1088. | 231.  | -4.5     | 0.26 | 2.61 | 0.20 | 1.20 | 227. | 10.1 | 300.4 | 2.0 |
| 12 | 01 | 01 | 1 | 14 | 160.3  | 0.235  | 1.833  | 0.005  | 1395. | 274.  | -7.4     | 0.26 | 2.61 | 0.21 | 1.47 | 233. | 10.1 | 300.9 | 2.0 |
| 12 | 01 | 01 | 1 | 15 | 109.1  | 0.197  | 1.662  | 0.005  | 1527. | 210.  | -6.3     | 0.26 | 2.61 | 0.25 | 1.20 | 233. | 10.1 | 302.0 | 2.0 |
| 12 | 01 | 01 | 1 | 16 | 33.3   | 0.243  | 1.125  | 0.005  | 1548. | 288.  | -39.2    | 0.26 | 2.61 | 0.33 | 1.91 | 229. | 10.1 | 298.1 | 2.0 |
| 12 | 01 | 01 | 1 | 17 | -9.1   | 0.141  | -9.000 | -9.000 | -999. | 132.  | 28.3     | 0.26 | 2.61 | 0.60 | 1.37 | 212. | 10.1 | 294.2 | 2.0 |
| 12 | 01 | 01 | 1 | 18 | -4.3   | 0.094  | -9.000 | -9.000 | -999. | 69.   | 17.5     | 0.26 | 2.61 | 1.00 | 0.91 | 190. | 10.1 | 292.0 | 2.0 |
| 12 | 01 | 01 | 1 | 19 | -2.8   | 0.079  | -9.000 | -9.000 | -999. | 54.   | 16.3     | 0.26 | 2.61 | 1.00 | 0.70 | 302. | 10.1 | 289.2 | 2.0 |
| 12 | 01 | 01 | 1 | 20 | -4.0   | 0.091  | -9.000 | -9.000 | -999. | 65.   | 17.0     | 0.26 | 2.61 | 1.00 | 0.87 | 338. | 10.1 | 288.1 | 2.0 |
| 12 | 01 | 01 | 1 | 21 | -6.3   | 0.113  | -9.000 | -9.000 | -999. | 91.   | 20.5     | 0.26 | 2.61 | 1.00 | 1.11 | 304. | 10.1 | 287.0 | 2.0 |
| 12 | 01 | 01 | 1 | 22 | -3.1   | 0.082  | -9.000 | -9.000 | -999. | 57.   | 16.3     | 0.26 | 2.61 | 1.00 | 0.75 | 76.  | 10.1 | 285.4 | 2.0 |
| 12 | 01 | 01 | 1 | 23 | -2.4   | 0.076  | -9.000 | -9.000 | -999. | 50.   | 16.7     | 0.26 | 2.61 | 1.00 | 0.62 | 306. | 10.1 | 284.9 | 2.0 |
| 12 | 01 | 01 | 1 | 24 | -3.6   | 0.087  | -9.000 | -9.000 | -999. | 62.   | 16.6     | 0.26 | 2.61 | 1.00 | 0.82 | 318. | 10.1 | 283.8 | 2.0 |

First hour of profile data

YR MO DY HR HEIGHT F WDIR WSPD AMB TMP sigmaA sigmaW sigmaV  
12 01 01 01 10.1 1 322. 0.96 283.8 99.0 -99.00 -99.00

F indicates top of profile (=1) or below (=0)

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:  
SLINE1 \*\*\*  
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,  
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC     | X-COORD (M) | Y-COORD (M) | CONC     |
|-------------|-------------|----------|-------------|-------------|----------|
| 416018.79   | 3746204.83  | 7.45067  | 416068.79   | 3746204.83  | 8.50753  |
| 416118.79   | 3746204.83  | 9.53037  | 416168.79   | 3746204.83  | 10.34806 |
| 416218.79   | 3746204.83  | 10.77985 | 416268.79   | 3746204.83  | 10.72833 |
| 416318.79   | 3746204.83  | 10.22656 | 416368.79   | 3746204.83  | 9.41091  |

|           |            |           |           |            |           |
|-----------|------------|-----------|-----------|------------|-----------|
| 416418.79 | 3746204.83 | 8.44557   | 416468.79 | 3746204.83 | 7.46353   |
| 416518.79 | 3746204.83 | 6.55050   | 416018.79 | 3746254.83 | 9.17201   |
| 416068.79 | 3746254.83 | 10.87977  | 416118.79 | 3746254.83 | 12.66333  |
| 416168.79 | 3746254.83 | 14.16618  | 416218.79 | 3746254.83 | 14.95443  |
| 416268.79 | 3746254.83 | 14.79917  | 416318.79 | 3746254.83 | 13.81674  |
| 416368.79 | 3746254.83 | 12.34333  | 416418.79 | 3746254.83 | 10.72068  |
| 416468.79 | 3746254.83 | 9.18504   | 416518.79 | 3746254.83 | 7.85290   |
| 416018.79 | 3746304.83 | 11.46836  | 416068.79 | 3746304.83 | 14.34146  |
| 416118.79 | 3746304.83 | 17.73004  | 416168.79 | 3746304.83 | 20.84941  |
| 416218.79 | 3746304.83 | 22.45526  | 416268.79 | 3746304.83 | 21.93284  |
| 416318.79 | 3746304.83 | 19.77236  | 416368.79 | 3746304.83 | 16.88626  |
| 416418.79 | 3746304.83 | 14.01140  | 416468.79 | 3746304.83 | 11.53924  |
| 416518.79 | 3746304.83 | 9.56334   | 416018.79 | 3746354.83 | 14.59816  |
| 416068.79 | 3746354.83 | 19.57767  | 416118.79 | 3746354.83 | 26.76008  |
| 416168.79 | 3746354.83 | 34.59765  | 416218.79 | 3746354.83 | 38.41448  |
| 416268.79 | 3746354.83 | 36.24649  | 416318.79 | 3746354.83 | 30.71638  |
| 416368.79 | 3746354.83 | 24.47535  | 416418.79 | 3746354.83 | 19.01198  |
| 416468.79 | 3746354.83 | 14.84359  | 416518.79 | 3746354.83 | 11.82222  |
| 416018.79 | 3746404.83 | 18.93236  | 416068.79 | 3746404.83 | 27.83543  |
| 416118.79 | 3746404.83 | 45.42410  | 416168.79 | 3746404.83 | 73.81386  |
| 416218.79 | 3746404.83 | 85.19981  | 416268.79 | 3746404.83 | 71.93448  |
| 416318.79 | 3746404.83 | 54.28191  | 416368.79 | 3746404.83 | 38.37013  |
| 416418.79 | 3746404.83 | 26.69338  | 416468.79 | 3746404.83 | 19.28314  |
| 416518.79 | 3746404.83 | 14.56230  | 416018.79 | 3746454.83 | 23.11983  |
| 416068.79 | 3746454.83 | 37.96303  | 416118.79 | 3746454.83 | 84.63677  |
| 416168.79 | 3746454.83 | 111.32781 | 416218.79 | 3746454.83 | 270.62023 |
| 416268.79 | 3746454.83 | 196.52486 | 416318.79 | 3746454.83 | 118.83040 |
| 416368.79 | 3746454.83 | 65.08929  | 416418.79 | 3746454.83 | 37.10988  |
| 416468.79 | 3746454.83 | 24.00561  | 416518.79 | 3746454.83 | 16.90681  |
| 416018.79 | 3746504.83 | 22.47850  | 416068.79 | 3746504.83 | 35.81398  |
| 416118.79 | 3746504.83 | 70.31058  | 416168.79 | 3746504.83 | 175.62113 |
| 416218.79 | 3746504.83 | 307.24755 | 416268.79 | 3746504.83 | 266.67326 |
| 416318.79 | 3746504.83 | 180.61924 | 416368.79 | 3746504.83 | 103.36291 |
| 416418.79 | 3746504.83 | 43.03230  | 416468.79 | 3746504.83 | 25.22387  |
| 416518.79 | 3746504.83 | 17.03677  | 416018.79 | 3746554.83 | 18.70889  |
| 416068.79 | 3746554.83 | 27.43422  | 416118.79 | 3746554.83 | 43.95177  |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

SLINE1 \*\*\*

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,  
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC      | X-COORD (M) | Y-COORD (M) | CONC      |
|-------------|-------------|-----------|-------------|-------------|-----------|
| 416168.79   | 3746554.83  | 73.60957  | 416218.79   | 3746554.83  | 112.44240 |
| 416268.79   | 3746554.83  | 164.57274 | 416318.79   | 3746554.83  | 163.66627 |
| 416368.79   | 3746554.83  | 72.33709  | 416418.79   | 3746554.83  | 35.50925  |

|           |            |           |           |            |           |
|-----------|------------|-----------|-----------|------------|-----------|
| 416468.79 | 3746554.83 | 21.79882  | 416518.79 | 3746554.83 | 15.11763  |
| 416018.79 | 3746604.83 | 15.18910  | 416068.79 | 3746604.83 | 20.75313  |
| 416118.79 | 3746604.83 | 29.44585  | 416168.79 | 3746604.83 | 42.09247  |
| 416218.79 | 3746604.83 | 56.74853  | 416268.79 | 3746604.83 | 68.91571  |
| 416318.79 | 3746604.83 | 66.44090  | 416368.79 | 3746604.83 | 45.81130  |
| 416418.79 | 3746604.83 | 28.07104  | 416468.79 | 3746604.83 | 18.37932  |
| 416518.79 | 3746604.83 | 13.13354  | 416018.79 | 3746654.83 | 12.44938  |
| 416068.79 | 3746654.83 | 16.08283  | 416118.79 | 3746654.83 | 21.10489  |
| 416168.79 | 3746654.83 | 27.49620  | 416218.79 | 3746654.83 | 34.09912  |
| 416268.79 | 3746654.83 | 38.67896  | 416318.79 | 3746654.83 | 37.84342  |
| 416368.79 | 3746654.83 | 30.78571  | 416418.79 | 3746654.83 | 22.24195  |
| 416468.79 | 3746654.83 | 15.74715  | 416518.79 | 3746654.83 | 11.59152  |
| 416018.79 | 3746704.83 | 10.32018  | 416068.79 | 3746704.83 | 12.75643  |
| 416118.79 | 3746704.83 | 15.84252  | 416168.79 | 3746704.83 | 19.41476  |
| 416218.79 | 3746704.83 | 22.82463  | 416268.79 | 3746704.83 | 25.02776  |
| 416318.79 | 3746704.83 | 24.78235  | 416368.79 | 3746704.83 | 21.83755  |
| 416418.79 | 3746704.83 | 17.56387  | 416468.79 | 3746704.83 | 13.47121  |
| 416518.79 | 3746704.83 | 10.31640  | 416302.62 | 3746499.91 | 378.56671 |
| 416312.84 | 3746498.80 | 204.05131 | 416322.84 | 3746499.46 | 145.91788 |
| 416332.84 | 3746498.80 | 184.26288 | 416342.39 | 3746499.24 | 243.97591 |
| 416190.87 | 3746435.25 | 189.10654 | 416189.75 | 3746447.47 | 313.09988 |
| 416301.03 | 3746253.85 | 14.14765  | 416335.27 | 3746290.44 | 16.97167  |
| 416331.87 | 3746279.46 | 15.85144  | 416361.93 | 3746288.35 | 15.47608  |
| 416370.04 | 3746286.52 | 14.91155  | 416384.15 | 3746286.52 | 14.24748  |
| 416388.59 | 3746285.74 | 13.97367  | 416400.10 | 3746294.10 | 14.11461  |
| 416406.37 | 3746294.62 | 13.84216  | 416409.51 | 3746291.23 | 13.42357  |
| 416422.31 | 3746291.23 | 12.81986  | 416428.85 | 3746288.87 | 12.36348  |
| 416444.80 | 3746287.83 | 11.61097  | 416448.19 | 3746291.75 | 11.69575  |
| 416459.69 | 3746291.75 | 11.21283  | 416466.23 | 3746288.87 | 10.80061  |
| 416481.65 | 3746287.04 | 10.13471  | 416485.31 | 3746291.23 | 10.19061  |
| 416499.95 | 3746290.96 | 9.65882   | 416505.44 | 3746288.35 | 9.37025   |
| 416520.34 | 3746287.31 | 8.86049   | 416525.57 | 3746291.23 | 8.83833   |
| 416540.99 | 3746294.62 | 8.49254   | 416545.17 | 3746289.92 | 8.22606   |
| 416557.98 | 3746293.58 | 7.98849   | 416562.95 | 3746288.35 | 7.71230   |
| 416578.63 | 3746286.26 | 7.28057   | 416580.72 | 3746290.18 | 7.33028   |
| 416595.36 | 3746289.13 | 6.97613   | 416600.85 | 3746291.49 | 6.91219   |
| 416614.97 | 3746286.52 | 6.51683   | 416619.15 | 3746289.66 | 6.50018   |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

SLINE1 \*\*\*

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,  
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC    | X-COORD (M) | Y-COORD (M) | CONC    |
|-------------|-------------|---------|-------------|-------------|---------|
| 416629.34   | 3746289.40  | 6.30200 | 416637.18   | 3746292.53  | 6.21856 |
| 416649.99   | 3746292.27  | 5.98837 | 416655.48   | 3746286.52  | 5.79727 |

|           |            |          |           |            |          |
|-----------|------------|----------|-----------|------------|----------|
| 416669.34 | 3746284.43 | 5.54638  | 416672.73 | 3746287.83 | 5.54865  |
| 416686.33 | 3746289.13 | 5.36807  | 416691.03 | 3746287.83 | 5.28245  |
| 416703.58 | 3746287.83 | 5.11135  | 416709.07 | 3746290.18 | 5.07056  |
| 416725.01 | 3746283.65 | 4.78720  | 416718.22 | 3746289.66 | 4.94592  |
| 416727.89 | 3746288.09 | 4.80692  | 416740.17 | 3746287.57 | 4.65624  |
| 416745.93 | 3746284.43 | 4.55562  | 416761.09 | 3746284.43 | 4.39249  |
| 416764.75 | 3746287.04 | 4.38141  | 416777.29 | 3746286.52 | 4.24838  |
| 416782.78 | 3746288.09 | 4.20928  | 416572.62 | 3746354.48 | 9.47761  |
| 416583.60 | 3746355.01 | 9.10608  | 416576.54 | 3746367.55 | 9.77310  |
| 416582.81 | 3746368.86 | 9.57570  | 416586.21 | 3746371.48 | 9.53042  |
| 416587.26 | 3746353.70 | 8.94151  | 416600.07 | 3746355.53 | 8.58063  |
| 416605.03 | 3746368.08 | 8.76758  | 416612.61 | 3746375.66 | 8.71535  |
| 416608.95 | 3746356.58 | 8.33635  | 416621.76 | 3746357.62 | 7.98934  |
| 416622.28 | 3746371.74 | 8.31170  | 416625.68 | 3746370.95 | 8.19037  |
| 416640.32 | 3746372.26 | 7.79648  | 416625.94 | 3746355.27 | 7.81764  |
| 416635.62 | 3746355.53 | 7.56647  | 416641.89 | 3746373.31 | 7.77422  |
| 416654.17 | 3746374.35 | 7.46340  | 416643.20 | 3746360.50 | 7.47696  |
| 416652.61 | 3746360.50 | 7.24153  | 416656.79 | 3746375.40 | 7.41414  |
| 416663.59 | 3746375.40 | 7.24090  | 416658.10 | 3746356.31 | 7.03100  |
| 416668.29 | 3746357.36 | 6.81874  | 416672.21 | 3746353.18 | 6.66120  |
| 416676.92 | 3746353.18 | 6.56206  | 416731.81 | 3746458.47 | 6.19914  |
| 416731.03 | 3746466.83 | 6.20164  | 416742.01 | 3746473.63 | 5.94449  |
| 416731.03 | 3746411.68 | 6.10436  | 416731.03 | 3746425.01 | 6.17012  |
| 416681.62 | 3746375.61 | 6.81308  | 416698.09 | 3746375.87 | 6.45529  |
| 416703.58 | 3746376.65 | 6.35078  | 416703.58 | 3746357.83 | 6.10487  |
| 416714.56 | 3746373.51 | 6.09467  | 416723.97 | 3746372.99 | 5.91187  |
| 416749.85 | 3746377.17 | 5.50034  | 416759.00 | 3746375.34 | 5.33680  |
| 416774.16 | 3746375.34 | 5.10500  | 416758.21 | 3746413.77 | 5.59282  |
| 416756.65 | 3746428.41 | 5.67008  | 416751.16 | 3746474.68 | 5.75387  |
| 416781.48 | 3746473.63 | 5.19984  | 416756.38 | 3746455.59 | 5.69336  |
| 416773.90 | 3746452.98 | 5.37274  | 416140.28 | 3746195.97 | 9.45376  |
| 416158.30 | 3746194.91 | 9.65543  | 416172.61 | 3746195.44 | 9.85761  |
| 416190.09 | 3746196.50 | 10.09018 | 416220.03 | 3746195.97 | 10.23888 |
| 416239.64 | 3746195.17 | 10.22334 | 416250.77 | 3746195.17 | 10.21099 |
| 416267.19 | 3746194.91 | 10.13863 | 416086.50 | 3746243.39 | 10.81952 |
| 416067.16 | 3746248.16 | 10.45698 | 416057.36 | 3746252.67 | 10.36168 |
| 416049.67 | 3746254.52 | 10.18940 | 416043.58 | 3746258.23 | 10.15744 |
| 416038.28 | 3746258.76 | 9.99549  | 416032.45 | 3746255.32 | 9.63975  |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

SLINE1 \*\*\*

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,  
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC    | X-COORD (M) | Y-COORD (M) | CONC    |
|-------------|-------------|---------|-------------|-------------|---------|
| 416026.09   | 3746256.91  | 9.49556 | 416013.38   | 3746259.03  | 9.16197 |

|           |            |         |           |            |         |
|-----------|------------|---------|-----------|------------|---------|
| 416008.87 | 3746260.88 | 9.08602 | 416004.90 | 3746261.94 | 8.99673 |
| 415999.33 | 3746267.24 | 9.00959 | 415984.76 | 3746268.03 | 8.56730 |
| 415970.45 | 3746270.42 | 8.20488 | 415958.53 | 3746270.68 | 7.86622 |
| 415946.61 | 3746271.21 | 7.55278 | 415936.81 | 3746273.07 | 7.34195 |
| 415924.09 | 3746272.80 | 7.01862 | 415913.49 | 3746272.01 | 6.75322 |
| 415899.45 | 3746273.33 | 6.46995 | 415883.29 | 3746274.92 | 6.16619 |
| 415892.30 | 3746272.01 | 6.29557 | 415864.21 | 3746276.25 | 5.82558 |
| 415856.79 | 3746275.98 | 5.68878 | 415843.81 | 3746275.19 | 5.45681 |
| 415834.27 | 3746274.66 | 5.29644 | 415821.55 | 3746275.72 | 5.11664 |
| 415809.63 | 3746274.39 | 4.92855 | 415797.44 | 3746276.78 | 4.79028 |
| 415787.11 | 3746276.25 | 4.64968 |           |            |         |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

SLINE2 \*\*\*

INCLUDING SOURCE(S): L0000023 , L0000024 , L0000025 , L0000026 , L0000027 ,  
 L0000028 , L0000029 , L0000030 , L0000031 , L0000032 , L0000033 , L0000034 , L0000035 ,  
 L0000036 , L0000037 , L0000038 , L0000039 , L0000040 , L0000041 , L0000042 , L0000043 ,  
 L0000044 , L0000045 , L0000046 , L0000047 , L0000048 , L0000049 , L0000050 , ... ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC      | X-COORD (M) | Y-COORD (M) | CONC      |
|-------------|-------------|-----------|-------------|-------------|-----------|
| 416018.79   | 3746204.83  | 8.22337   | 416068.79   | 3746204.83  | 9.84308   |
| 416118.79   | 3746204.83  | 11.65053  | 416168.79   | 3746204.83  | 13.46820  |
| 416218.79   | 3746204.83  | 15.11884  | 416268.79   | 3746204.83  | 16.50614  |
| 416318.79   | 3746204.83  | 17.63495  | 416368.79   | 3746204.83  | 18.54480  |
| 416418.79   | 3746204.83  | 19.22265  | 416468.79   | 3746204.83  | 19.58319  |
| 416518.79   | 3746204.83  | 19.58476  | 416018.79   | 3746254.83  | 10.33185  |
| 416068.79   | 3746254.83  | 13.07253  | 416118.79   | 3746254.83  | 16.39840  |
| 416168.79   | 3746254.83  | 19.87376  | 416218.79   | 3746254.83  | 23.03959  |
| 416268.79   | 3746254.83  | 25.68299  | 416318.79   | 3746254.83  | 27.90673  |
| 416368.79   | 3746254.83  | 29.94162  | 416418.79   | 3746254.83  | 31.79977  |
| 416468.79   | 3746254.83  | 32.90115  | 416518.79   | 3746254.83  | 33.05684  |
| 416018.79   | 3746304.83  | 13.24596  | 416068.79   | 3746304.83  | 18.42160  |
| 416118.79   | 3746304.83  | 25.95618  | 416168.79   | 3746304.83  | 34.58524  |
| 416218.79   | 3746304.83  | 43.10607  | 416268.79   | 3746304.83  | 50.57217  |
| 416318.79   | 3746304.83  | 57.49701  | 416368.79   | 3746304.83  | 65.35802  |
| 416418.79   | 3746304.83  | 76.35293  | 416468.79   | 3746304.83  | 82.86275  |
| 416518.79   | 3746304.83  | 82.80549  | 416018.79   | 3746354.83  | 16.85227  |
| 416068.79   | 3746354.83  | 27.70574  | 416118.79   | 3746354.83  | 54.03344  |
| 416168.79   | 3746354.83  | 95.36661  | 416218.79   | 3746354.83  | 81.34116  |
| 416268.79   | 3746354.83  | 87.06353  | 416318.79   | 3746354.83  | 84.37852  |
| 416368.79   | 3746354.83  | 83.75943  | 416418.79   | 3746354.83  | 100.82657 |
| 416468.79   | 3746354.83  | 120.49109 | 416518.79   | 3746354.83  | 119.93733 |
| 416018.79   | 3746404.83  | 19.20870  | 416068.79   | 3746404.83  | 37.89846  |
| 416118.79   | 3746404.83  | 78.40300  | 416168.79   | 3746404.83  | 118.05647 |
| 416218.79   | 3746404.83  | 78.62560  | 416268.79   | 3746404.83  | 64.48282  |
| 416318.79   | 3746404.83  | 57.64421  | 416368.79   | 3746404.83  | 52.63075  |

|           |            |          |           |            |          |
|-----------|------------|----------|-----------|------------|----------|
| 416418.79 | 3746404.83 | 48.43398 | 416468.79 | 3746404.83 | 45.78999 |
| 416518.79 | 3746404.83 | 44.67670 | 416018.79 | 3746454.83 | 17.94172 |
| 416068.79 | 3746454.83 | 35.77538 | 416118.79 | 3746454.83 | 73.52947 |
| 416168.79 | 3746454.83 | 68.37625 | 416218.79 | 3746454.83 | 45.79569 |
| 416268.79 | 3746454.83 | 36.69424 | 416318.79 | 3746454.83 | 33.08339 |
| 416368.79 | 3746454.83 | 30.89384 | 416418.79 | 3746454.83 | 29.23054 |
| 416468.79 | 3746454.83 | 27.98942 | 416518.79 | 3746454.83 | 27.12267 |
| 416018.79 | 3746504.83 | 14.09272 | 416068.79 | 3746504.83 | 23.08358 |
| 416118.79 | 3746504.83 | 44.73427 | 416168.79 | 3746504.83 | 46.63660 |
| 416218.79 | 3746504.83 | 30.11969 | 416268.79 | 3746504.83 | 24.82926 |
| 416318.79 | 3746504.83 | 22.66144 | 416368.79 | 3746504.83 | 21.40449 |
| 416418.79 | 3746504.83 | 20.47524 | 416468.79 | 3746504.83 | 19.71695 |
| 416518.79 | 3746504.83 | 19.06445 | 416018.79 | 3746554.83 | 10.76423 |
| 416068.79 | 3746554.83 | 14.92771 | 416118.79 | 3746554.83 | 20.66581 |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

SLINE2 \*\*\*

INCLUDING SOURCE(S): L0000023 , L0000024 , L0000025 , L0000026 , L0000027 ,  
 L0000028 , L0000029 , L0000030 , L0000031 , L0000032 , L0000033 , L0000034 , L0000035 ,  
 L0000036 , L0000037 , L0000038 , L0000039 , L0000040 , L0000041 , L0000042 , L0000043 ,  
 L0000044 , L0000045 , L0000046 , L0000047 , L0000048 , L0000049 , L0000050 , ... ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3

\*\*

| X-COORD (M) | Y-COORD (M) | CONC     | X-COORD (M) | Y-COORD (M) | CONC     |
|-------------|-------------|----------|-------------|-------------|----------|
| 416168.79   | 3746554.83  | 22.96934 | 416218.79   | 3746554.83  | 20.40715 |
| 416268.79   | 3746554.83  | 18.08653 | 416318.79   | 3746554.83  | 16.80390 |
| 416368.79   | 3746554.83  | 16.02101 | 416418.79   | 3746554.83  | 15.43041 |
| 416468.79   | 3746554.83  | 14.91456 | 416518.79   | 3746554.83  | 14.41903 |
| 416018.79   | 3746604.83  | 8.47430  | 416068.79   | 3746604.83  | 10.68938 |
| 416118.79   | 3746604.83  | 13.19393 | 416168.79   | 3746604.83  | 14.67110 |
| 416218.79   | 3746604.83  | 14.54699 | 416268.79   | 3746604.83  | 13.78399 |
| 416318.79   | 3746604.83  | 13.08650 | 416368.79   | 3746604.83  | 12.57599 |
| 416418.79   | 3746604.83  | 12.16808 | 416468.79   | 3746604.83  | 11.79291 |
| 416518.79   | 3746604.83  | 11.40943 | 416018.79   | 3746654.83  | 6.87491  |
| 416068.79   | 3746654.83  | 8.21559  | 416118.79   | 3746654.83  | 9.61167  |
| 416168.79   | 3746654.83  | 10.58284 | 416218.79   | 3746654.83  | 10.90742 |
| 416268.79   | 3746654.83  | 10.79334 | 416318.79   | 3746654.83  | 10.49660 |
| 416368.79   | 3746654.83  | 10.18457 | 416418.79   | 3746654.83  | 9.89643  |
| 416468.79   | 3746654.83  | 9.61395  | 416518.79   | 3746654.83  | 9.31309  |
| 416018.79   | 3746704.83  | 5.72542  | 416068.79   | 3746704.83  | 6.61562  |
| 416118.79   | 3746704.83  | 7.50540  | 416168.79   | 3746704.83  | 8.18111  |
| 416218.79   | 3746704.83  | 8.54470  | 416268.79   | 3746704.83  | 8.65259  |
| 416318.79   | 3746704.83  | 8.58478  | 416368.79   | 3746704.83  | 8.42383  |
| 416418.79   | 3746704.83  | 8.22852  | 416468.79   | 3746704.83  | 8.01505  |
| 416518.79   | 3746704.83  | 7.77763  | 416302.62   | 3746499.91  | 24.00282 |
| 416312.84   | 3746498.80  | 23.80502 | 416322.84   | 3746499.46  | 23.36563 |
| 416332.84   | 3746498.80  | 23.16857 | 416342.39   | 3746499.24  | 22.83636 |

|           |            |          |           |            |          |
|-----------|------------|----------|-----------|------------|----------|
| 416190.87 | 3746435.25 | 66.52816 | 416189.75 | 3746447.47 | 63.84285 |
| 416301.03 | 3746253.85 | 26.86526 | 416335.27 | 3746290.44 | 46.06464 |
| 416331.87 | 3746279.46 | 38.71096 | 416361.93 | 3746288.35 | 46.99024 |
| 416370.04 | 3746286.52 | 46.33787 | 416384.15 | 3746286.52 | 47.67956 |
| 416388.59 | 3746285.74 | 47.48145 | 416400.10 | 3746294.10 | 56.77223 |
| 416406.37 | 3746294.62 | 58.27147 | 416409.51 | 3746291.23 | 54.87640 |
| 416422.31 | 3746291.23 | 56.42373 | 416428.85 | 3746288.87 | 54.48906 |
| 416444.80 | 3746287.83 | 54.57673 | 416448.19 | 3746291.75 | 59.36492 |
| 416459.69 | 3746291.75 | 59.91735 | 416466.23 | 3746288.87 | 56.62576 |
| 416481.65 | 3746287.04 | 54.86300 | 416485.31 | 3746291.23 | 59.78908 |
| 416499.95 | 3746290.96 | 59.50553 | 416505.44 | 3746288.35 | 56.40257 |
| 416520.34 | 3746287.31 | 55.17728 | 416525.57 | 3746291.23 | 59.69406 |
| 416540.99 | 3746294.62 | 64.00637 | 416545.17 | 3746289.92 | 57.84068 |
| 416557.98 | 3746293.58 | 62.24690 | 416562.95 | 3746288.35 | 55.72275 |
| 416578.63 | 3746286.26 | 53.15295 | 416580.72 | 3746290.18 | 57.42031 |
| 416595.36 | 3746289.13 | 55.81018 | 416600.85 | 3746291.49 | 58.43338 |
| 416614.97 | 3746286.52 | 52.38677 | 416619.15 | 3746289.66 | 55.63485 |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

SLINE2 \*\*\*

INCLUDING SOURCE(S): L0000023 , L0000024 , L0000025 , L0000026 , L0000027 ,  
 L0000028 , L0000029 , L0000030 , L0000031 , L0000032 , L0000033 , L0000034 , L0000035 ,  
 L0000036 , L0000037 , L0000038 , L0000039 , L0000040 , L0000041 , L0000042 , L0000043 ,  
 L0000044 , L0000045 , L0000046 , L0000047 , L0000048 , L0000049 , L0000050 , ... ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC      | X-COORD (M) | Y-COORD (M) | CONC      |
|-------------|-------------|-----------|-------------|-------------|-----------|
| 416629.34   | 3746289.40  | 54.94495  | 416637.18   | 3746292.53  | 58.35086  |
| 416649.99   | 3746292.27  | 57.40094  | 416655.48   | 3746286.52  | 50.68142  |
| 416669.34   | 3746284.43  | 47.90554  | 416672.73   | 3746287.83  | 51.03229  |
| 416686.33   | 3746289.13  | 51.46580  | 416691.03   | 3746287.83  | 49.73170  |
| 416703.58   | 3746287.83  | 48.64696  | 416709.07   | 3746290.18  | 50.57877  |
| 416725.01   | 3746283.65  | 42.50688  | 416718.22   | 3746289.66  | 48.99234  |
| 416727.89   | 3746288.09  | 46.15844  | 416740.17   | 3746287.57  | 43.82582  |
| 416745.93   | 3746284.43  | 40.14859  | 416761.09   | 3746284.43  | 37.23959  |
| 416764.75   | 3746287.04  | 38.39005  | 416777.29   | 3746286.52  | 34.69017  |
| 416782.78   | 3746288.09  | 34.09459  | 416572.62   | 3746354.48  | 121.25210 |
| 416583.60   | 3746355.01  | 119.04103 | 416576.54   | 3746367.55  | 82.79052  |
| 416582.81   | 3746368.86  | 80.13097  | 416586.21   | 3746371.48  | 75.40597  |
| 416587.26   | 3746353.70  | 124.65436 | 416600.07   | 3746355.53  | 116.74608 |
| 416605.03   | 3746368.08  | 81.16945  | 416612.61   | 3746375.66  | 68.38485  |
| 416608.95   | 3746356.58  | 112.42912 | 416621.76   | 3746357.62  | 108.41428 |
| 416622.28   | 3746371.74  | 74.08827  | 416625.68   | 3746370.95  | 75.32232  |
| 416640.32   | 3746372.26  | 72.62839  | 416625.94   | 3746355.27  | 117.26934 |
| 416635.62   | 3746355.53  | 116.07127 | 416641.89   | 3746373.31  | 70.90032  |
| 416654.17   | 3746374.35  | 68.81125  | 416643.20   | 3746360.50  | 98.43286  |
| 416652.61   | 3746360.50  | 98.08712  | 416656.79   | 3746375.40  | 67.16800  |

|           |            |           |           |            |           |
|-----------|------------|-----------|-----------|------------|-----------|
| 416663.59 | 3746375.40 | 66.83620  | 416658.10 | 3746356.31 | 112.15999 |
| 416668.29 | 3746357.36 | 107.72738 | 416672.21 | 3746353.18 | 90.82831  |
| 416676.92 | 3746353.18 | 90.60884  | 416731.81 | 3746458.47 | 20.43412  |
| 416731.03 | 3746466.83 | 19.14067  | 416742.01 | 3746473.63 | 17.61346  |
| 416731.03 | 3746411.68 | 33.10466  | 416731.03 | 3746425.01 | 28.23115  |
| 416681.62 | 3746375.61 | 65.49400  | 416698.09 | 3746375.87 | 63.89739  |
| 416703.58 | 3746376.65 | 62.35147  | 416703.58 | 3746357.83 | 103.48295 |
| 416714.56 | 3746373.51 | 65.68019  | 416723.97 | 3746372.99 | 65.27972  |
| 416749.85 | 3746377.17 | 54.81420  | 416759.00 | 3746375.34 | 54.66317  |
| 416774.16 | 3746375.34 | 49.12009  | 416758.21 | 3746413.77 | 29.11069  |
| 416756.65 | 3746428.41 | 24.83388  | 416751.16 | 3746474.68 | 16.98550  |
| 416781.48 | 3746473.63 | 15.24893  | 416756.38 | 3746455.59 | 19.32582  |
| 416773.90 | 3746452.98 | 18.35267  | 416140.28 | 3746195.97 | 11.76961  |
| 416158.30 | 3746194.91 | 12.27872  | 416172.61 | 3746195.44 | 12.77641  |
| 416190.09 | 3746196.50 | 13.41033  | 416220.03 | 3746195.97 | 14.23102  |
| 416239.64 | 3746195.17 | 14.66991  | 416250.77 | 3746195.17 | 14.94673  |
| 416267.19 | 3746194.91 | 15.30418  | 416086.50 | 3746243.39 | 13.16799  |
| 416067.16 | 3746248.16 | 12.45659  | 416057.36 | 3746252.67 | 12.23009  |
| 416049.67 | 3746254.52 | 11.92185  | 416043.58 | 3746258.23 | 11.82214  |
| 416038.28 | 3746258.76 | 11.55711  | 416032.45 | 3746255.32 | 11.03911  |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

SLINE2 \*\*\*

INCLUDING SOURCE(S): L0000023 , L0000024 , L0000025 , L0000026 , L0000027 ,  
L0000028 , L0000029 , L0000030 , L0000031 , L0000032 , L0000033 , L0000034 , L0000035 ,  
L0000036 , L0000037 , L0000038 , L0000039 , L0000040 , L0000041 , L0000042 , L0000043 ,  
L0000044 , L0000045 , L0000046 , L0000047 , L0000048 , L0000049 , L0000050 , ... ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC     | X-COORD (M) | Y-COORD (M) | CONC     |
|-------------|-------------|----------|-------------|-------------|----------|
| 416026.09   | 3746256.91  | 10.80004 | 416013.38   | 3746259.03  | 10.27726 |
| 416008.87   | 3746260.88  | 10.14820 | 416004.90   | 3746261.94  | 10.00824 |
| 415999.33   | 3746267.24  | 9.97972  | 415984.76   | 3746268.03  | 9.34602  |
| 415970.45   | 3746270.42  | 8.83015  | 415958.53   | 3746270.68  | 8.37563  |
| 415946.61   | 3746271.21  | 7.96272  | 415936.81   | 3746273.07  | 7.68089  |
| 415924.09   | 3746272.80  | 7.27560  | 415913.49   | 3746272.01  | 6.95207  |
| 415899.45   | 3746273.33  | 6.60105  | 415883.29   | 3746274.92  | 6.23094  |
| 415892.30   | 3746272.01  | 6.39889  | 415864.21   | 3746276.25  | 5.82655  |
| 415856.79   | 3746275.98  | 5.67028  | 415843.81   | 3746275.19  | 5.40938  |
| 415834.27   | 3746274.66  | 5.23072  | 415821.55   | 3746275.72  | 5.02527  |
| 415809.63   | 3746274.39  | 4.82251  | 415797.44   | 3746276.78  | 4.66142  |
| 415787.11   | 3746276.25  | 4.51055  |             |             |          |

\*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

SLINE3 \*\*\*

INCLUDING SOURCE(S): L0000066 , L0000067 , L0000068 , L0000069 , L0000070 ,  
L0000071 , L0000072 , L0000073 , L0000074 , L0000075 , L0000076 , L0000077 , L0000078 ,  
L0000079 , L0000080 , L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 ,  
L0000087 , L0000088 , L0000089 , L0000090 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC      | X-COORD (M) | Y-COORD (M) | CONC      |
|-------------|-------------|-----------|-------------|-------------|-----------|
| 416018.79   | 3746204.83  | 20.61702  | 416068.79   | 3746204.83  | 18.87140  |
| 416118.79   | 3746204.83  | 16.68013  | 416168.79   | 3746204.83  | 14.28835  |
| 416218.79   | 3746204.83  | 12.00372  | 416268.79   | 3746204.83  | 10.02822  |
| 416318.79   | 3746204.83  | 8.41568   | 416368.79   | 3746204.83  | 7.13020   |
| 416418.79   | 3746204.83  | 6.10859   | 416468.79   | 3746204.83  | 5.29102   |
| 416518.79   | 3746204.83  | 4.62937   | 416018.79   | 3746254.83  | 32.92251  |
| 416068.79   | 3746254.83  | 29.19127  | 416118.79   | 3746254.83  | 24.72115  |
| 416168.79   | 3746254.83  | 19.99804  | 416218.79   | 3746254.83  | 15.83991  |
| 416268.79   | 3746254.83  | 12.59375  | 416318.79   | 3746254.83  | 10.16913  |
| 416368.79   | 3746254.83  | 8.36208   | 416418.79   | 3746254.83  | 6.99613   |
| 416468.79   | 3746254.83  | 5.94392   | 416518.79   | 3746254.83  | 5.11719   |
| 416018.79   | 3746304.83  | 62.75984  | 416068.79   | 3746304.83  | 52.57708  |
| 416118.79   | 3746304.83  | 41.33875  | 416168.79   | 3746304.83  | 29.89030  |
| 416218.79   | 3746304.83  | 21.41577  | 416268.79   | 3746304.83  | 15.84361  |
| 416318.79   | 3746304.83  | 12.15432  | 416368.79   | 3746304.83  | 9.62817   |
| 416418.79   | 3746304.83  | 7.83296   | 416468.79   | 3746304.83  | 6.51138   |
| 416518.79   | 3746304.83  | 5.50818   | 416018.79   | 3746354.83  | 158.58083 |
| 416068.79   | 3746354.83  | 142.50894 | 416118.79   | 3746354.83  | 94.04809  |
| 416168.79   | 3746354.83  | 48.61773  | 416218.79   | 3746354.83  | 28.87421  |
| 416268.79   | 3746354.83  | 19.27020  | 416318.79   | 3746354.83  | 13.90353  |
| 416368.79   | 3746354.83  | 10.59010  | 416418.79   | 3746354.83  | 8.38425   |
| 416468.79   | 3746354.83  | 6.83173   | 416518.79   | 3746354.83  | 5.69251   |
| 416018.79   | 3746404.83  | 145.57015 | 416068.79   | 3746404.83  | 205.85986 |
| 416118.79   | 3746404.83  | 136.07011 | 416168.79   | 3746404.83  | 73.77108  |
| 416218.79   | 3746404.83  | 35.32043  | 416268.79   | 3746404.83  | 21.39145  |
| 416318.79   | 3746404.83  | 14.67710  | 416368.79   | 3746404.83  | 10.85166  |
| 416418.79   | 3746404.83  | 8.43188   | 416468.79   | 3746404.83  | 6.78800   |
| 416518.79   | 3746404.83  | 5.61170   | 416018.79   | 3746454.83  | 69.00052  |
| 416068.79   | 3746454.83  | 102.20058 | 416118.79   | 3746454.83  | 108.48165 |
| 416168.79   | 3746454.83  | 77.62231  | 416218.79   | 3746454.83  | 38.08519  |
| 416268.79   | 3746454.83  | 21.00856  | 416318.79   | 3746454.83  | 14.01427  |
| 416368.79   | 3746454.83  | 10.26973  | 416418.79   | 3746454.83  | 7.96418   |
| 416468.79   | 3746454.83  | 6.41660   | 416518.79   | 3746454.83  | 5.31473   |
| 416018.79   | 3746504.83  | 42.32043  | 416068.79   | 3746504.83  | 55.60974  |
| 416118.79   | 3746504.83  | 85.99608  | 416168.79   | 3746504.83  | 63.97455  |
| 416218.79   | 3746504.83  | 30.28536  | 416268.79   | 3746504.83  | 17.92805  |
| 416318.79   | 3746504.83  | 12.33041  | 416368.79   | 3746504.83  | 9.21388   |
| 416418.79   | 3746504.83  | 7.24619   | 416468.79   | 3746504.83  | 5.90044   |
| 416518.79   | 3746504.83  | 4.92815   | 416018.79   | 3746554.83  | 28.03215  |
| 416068.79   | 3746554.83  | 32.51946  | 416118.79   | 3746554.83  | 36.99185  |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

SLINE3 \*\*\*

INCLUDING SOURCE(S): L0000066 , L0000067 , L0000068 , L0000069 , L0000070 ,  
 L0000071 , L0000072 , L0000073 , L0000074 , L0000075 , L0000076 , L0000077 , L0000078 ,  
 L0000079 , L0000080 , L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 ,  
 L0000087 , L0000088 , L0000089 , L0000090 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3

\*\*

| X-COORD (M) | Y-COORD (M) | CONC     | X-COORD (M) | Y-COORD (M) | CONC     |
|-------------|-------------|----------|-------------|-------------|----------|
| 416168.79   | 3746554.83  | 32.75841 | 416218.79   | 3746554.83  | 22.50547 |
| 416268.79   | 3746554.83  | 15.05210 | 416318.79   | 3746554.83  | 10.77696 |
| 416368.79   | 3746554.83  | 8.22576  | 416418.79   | 3746554.83  | 6.56550  |
| 416468.79   | 3746554.83  | 5.40671  | 416518.79   | 3746554.83  | 4.55608  |
| 416018.79   | 3746604.83  | 19.86368 | 416068.79   | 3746604.83  | 21.65569 |
| 416118.79   | 3746604.83  | 22.64605 | 416168.79   | 3746604.83  | 20.93195 |
| 416218.79   | 3746604.83  | 16.86040 | 416268.79   | 3746604.83  | 12.66696 |
| 416318.79   | 3746604.83  | 9.52943  | 416368.79   | 3746604.83  | 7.42514  |
| 416418.79   | 3746604.83  | 5.99827  | 416468.79   | 3746604.83  | 4.98462  |
| 416518.79   | 3746604.83  | 4.23166  | 416018.79   | 3746654.83  | 14.79966 |
| 416068.79   | 3746654.83  | 15.65602 | 416118.79   | 3746654.83  | 15.89564 |
| 416168.79   | 3746654.83  | 14.94987 | 416218.79   | 3746654.83  | 12.95701 |
| 416268.79   | 3746654.83  | 10.58989 | 416318.79   | 3746654.83  | 8.42562  |
| 416368.79   | 3746654.83  | 6.74404  | 416418.79   | 3746654.83  | 5.51905  |
| 416468.79   | 3746654.83  | 4.62361  | 416518.79   | 3746654.83  | 3.95012  |
| 416018.79   | 3746704.83  | 11.46752 | 416068.79   | 3746704.83  | 11.94128 |
| 416118.79   | 3746704.83  | 11.98770 | 416168.79   | 3746704.83  | 11.40030 |
| 416218.79   | 3746704.83  | 10.26627 | 416268.79   | 3746704.83  | 8.85431  |
| 416318.79   | 3746704.83  | 7.40640  | 416368.79   | 3746704.83  | 6.12270  |
| 416418.79   | 3746704.83  | 5.09579  | 416468.79   | 3746704.83  | 4.30756  |
| 416518.79   | 3746704.83  | 3.70193  | 416302.62   | 3746499.91  | 13.96682 |
| 416312.84   | 3746498.80  | 13.05042 | 416322.84   | 3746499.46  | 12.19283 |
| 416332.84   | 3746498.80  | 11.46933 | 416342.39   | 3746499.24  | 10.81609 |
| 416190.87   | 3746435.25  | 59.33133 | 416189.75   | 3746447.47  | 64.59261 |
| 416301.03   | 3746253.85  | 10.90579 | 416335.27   | 3746290.44  | 10.73137 |
| 416331.87   | 3746279.46  | 10.50813 | 416361.93   | 3746288.35  | 9.49268  |
| 416370.04   | 3746286.52  | 9.13048  | 416384.15   | 3746286.52  | 8.62253  |
| 416388.59   | 3746285.74  | 8.45504  | 416400.10   | 3746294.10  | 8.24295  |
| 416406.37   | 3746294.62  | 8.05212  | 416409.51   | 3746291.23  | 7.89590  |
| 416422.31   | 3746291.23  | 7.52265  | 416428.85   | 3746288.87  | 7.30726  |
| 416444.80   | 3746287.83  | 6.88552  | 416448.19   | 3746291.75  | 6.85364  |
| 416459.69   | 3746291.75  | 6.58275  | 416466.23   | 3746288.87  | 6.40450  |
| 416481.65   | 3746287.04  | 6.06376  | 416485.31   | 3746291.23  | 6.03117  |
| 416499.95   | 3746290.96  | 5.74814  | 416505.44   | 3746288.35  | 5.62710  |
| 416520.34   | 3746287.31  | 5.36368  | 416525.57   | 3746291.23  | 5.30557  |
| 416540.99   | 3746294.62  | 5.08306  | 416545.17   | 3746289.92  | 4.99264  |
| 416557.98   | 3746293.58  | 4.82747  | 416562.95   | 3746288.35  | 4.73153  |
| 416578.63   | 3746286.26  | 4.51565  | 416580.72   | 3746290.18  | 4.50733  |
| 416595.36   | 3746289.13  | 4.32374  | 416600.85   | 3746291.49  | 4.26847  |
| 416614.97   | 3746286.52  | 4.09165  | 416619.15   | 3746289.66  | 4.05744  |

\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

SLINE3 \*\*\*

INCLUDING SOURCE(S): L0000066 , L0000067 , L0000068 , L0000069 , L0000070 ,  
L0000071 , L0000072 , L0000073 , L0000074 , L0000075 , L0000076 , L0000077 , L0000078 ,  
L0000079 , L0000080 , L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 ,  
L0000087 , L0000088 , L0000089 , L0000090 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3

\*\*

| X-COORD (M) | Y-COORD (M) | CONC     | X-COORD (M) | Y-COORD (M) | CONC     |
|-------------|-------------|----------|-------------|-------------|----------|
| 416629.34   | 3746289.40  | 3.94949  | 416637.18   | 3746292.53  | 3.87889  |
| 416649.99   | 3746292.27  | 3.75280  | 416655.48   | 3746286.52  | 3.68654  |
| 416669.34   | 3746284.43  | 3.55703  | 416672.73   | 3746287.83  | 3.53561  |
| 416686.33   | 3746289.13  | 3.42344  | 416691.03   | 3746287.83  | 3.38252  |
| 416703.58   | 3746287.83  | 3.28339  | 416709.07   | 3746290.18  | 3.24529  |
| 416725.01   | 3746283.65  | 3.11774  | 416718.22   | 3746289.66  | 3.17613  |
| 416727.89   | 3746288.09  | 3.10411  | 416740.17   | 3746287.57  | 3.01838  |
| 416745.93   | 3746284.43  | 2.97568  | 416761.09   | 3746284.43  | 2.87811  |
| 416764.75   | 3746287.04  | 2.85819  | 416777.29   | 3746286.52  | 2.78131  |
| 416782.78   | 3746288.09  | 2.75031  | 416572.62   | 3746354.48  | 4.77162  |
| 416583.60   | 3746355.01  | 4.61292  | 416576.54   | 3746367.55  | 4.70711  |
| 416582.81   | 3746368.86  | 4.61497  | 416586.21   | 3746371.48  | 4.56361  |
| 416587.26   | 3746353.70  | 4.56209  | 416600.07   | 3746355.53  | 4.39000  |
| 416605.03   | 3746368.08  | 4.31598  | 416612.61   | 3746375.66  | 4.20969  |
| 416608.95   | 3746356.58  | 4.27639  | 416621.76   | 3746357.62  | 4.12049  |
| 416622.28   | 3746371.74  | 4.09915  | 416625.68   | 3746370.95  | 4.06050  |
| 416640.32   | 3746372.26  | 3.89409  | 416625.94   | 3746355.27  | 4.07323  |
| 416635.62   | 3746355.53  | 3.96381  | 416641.89   | 3746373.31  | 3.87547  |
| 416654.17   | 3746374.35  | 3.74488  | 416643.20   | 3746360.50  | 3.87745  |
| 416652.61   | 3746360.50  | 3.77879  | 416656.79   | 3746375.40  | 3.71655  |
| 416663.59   | 3746375.40  | 3.64889  | 416658.10   | 3746356.31  | 3.72679  |
| 416668.29   | 3746357.36  | 3.62604  | 416672.21   | 3746353.18  | 3.59206  |
| 416676.92   | 3746353.18  | 3.54812  | 416731.81   | 3746458.47  | 2.86925  |
| 416731.03   | 3746466.83  | 2.84974  | 416742.01   | 3746473.63  | 2.75774  |
| 416731.03   | 3746411.68  | 3.00124  | 416731.03   | 3746425.01  | 2.96808  |
| 416681.62   | 3746375.61  | 3.47845  | 416698.09   | 3746375.87  | 3.33356  |
| 416703.58   | 3746376.65  | 3.28629  | 416703.58   | 3746357.83  | 3.31075  |
| 416714.56   | 3746373.51  | 3.20214  | 416723.97   | 3746372.99  | 3.12963  |
| 416749.85   | 3746377.17  | 2.93528  | 416759.00   | 3746375.34  | 2.87585  |
| 416774.16   | 3746375.34  | 2.77742  | 416758.21   | 3746413.77  | 2.80953  |
| 416756.65   | 3746428.41  | 2.78556  | 416751.16   | 3746474.68  | 2.69740  |
| 416781.48   | 3746473.63  | 2.52346  | 416756.38   | 3746455.59  | 2.71751  |
| 416773.90   | 3746452.98  | 2.61857  | 416140.28   | 3746195.97  | 14.77133 |
| 416158.30   | 3746194.91  | 13.89987 | 416172.61   | 3746195.44  | 13.33153 |
| 416190.09   | 3746196.50  | 12.66890 | 416220.03   | 3746195.97  | 11.41379 |
| 416239.64   | 3746195.17  | 10.62598 | 416250.77   | 3746195.17  | 10.22558 |
| 416267.19   | 3746194.91  | 9.65199  | 416086.50   | 3746243.39  | 24.89101 |

|           |            |          |           |            |          |
|-----------|------------|----------|-----------|------------|----------|
| 416067.16 | 3746248.16 | 27.47587 | 416057.36 | 3746252.67 | 29.46535 |
| 416049.67 | 3746254.52 | 30.61152 | 416043.58 | 3746258.23 | 32.29509 |
| 416038.28 | 3746258.76 | 32.89459 | 416032.45 | 3746255.32 | 32.14384 |

\*\*\* AERMOD - VERSION 19191 \*\*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

SLINE3 \*\*\*

INCLUDING SOURCE(S): L0000066 , L0000067 , L0000068 , L0000069 , L0000070 ,  
L0000071 , L0000072 , L0000073 , L0000074 , L0000075 , L0000076 , L0000077 , L0000078 ,  
L0000079 , L0000080 , L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 ,  
L0000087 , L0000088 , L0000089 , L0000090 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC     | X-COORD (M) | Y-COORD (M) | CONC     |
|-------------|-------------|----------|-------------|-------------|----------|
| 416026.09   | 3746256.91  | 33.15374 | 416013.38   | 3746259.03  | 34.85159 |
| 416008.87   | 3746260.88  | 35.91105 | 416004.90   | 3746261.94  | 36.63967 |
| 415999.33   | 3746267.24  | 39.43874 | 415984.76   | 3746268.03  | 40.99048 |
| 415970.45   | 3746270.42  | 43.41464 | 415958.53   | 3746270.68  | 44.50508 |
| 415946.61   | 3746271.21  | 45.73391 | 415936.81   | 3746273.07  | 47.69458 |
| 415924.09   | 3746272.80  | 48.38825 | 415913.49   | 3746272.01  | 48.43271 |
| 415899.45   | 3746273.33  | 50.09857 | 415883.29   | 3746274.92  | 51.87814 |
| 415892.30   | 3746272.01  | 49.26615 | 415864.21   | 3746276.25  | 52.98072 |
| 415856.79   | 3746275.98  | 52.42786 | 415843.81   | 3746275.19  | 50.75885 |
| 415834.27   | 3746274.66  | 49.22908 | 415821.55   | 3746275.72  | 48.24957 |
| 415809.63   | 3746274.39  | 44.62757 | 415797.44   | 3746276.78  | 43.33617 |
| 415787.11   | 3746276.25  | 39.65911 |             |             |          |

\*\*\* AERMOD - VERSION 19191 \*\*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* 20:02:04

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

SLINE4 \*\*\*

INCLUDING SOURCE(S): L0000091 , L0000092 , L0000093 , L0000094 , L0000095 ,  
L0000096 , L0000097 , L0000098 , L0000099 , L0000100 , L0000101 , L0000102 , L0000103 ,  
L0000104 , L0000105 , L0000106 , L0000107 , L0000108 , L0000109 , L0000110 , L0000111 ,  
L0000112 , L0000113 , L0000114 , L0000115 , L0000116 , L0000117 , L0000118 , ... ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC     | X-COORD (M) | Y-COORD (M) | CONC     |
|-------------|-------------|----------|-------------|-------------|----------|
| 416018.79   | 3746204.83  | 48.53590 | 416068.79   | 3746204.83  | 54.82763 |
| 416118.79   | 3746204.83  | 54.28254 | 416168.79   | 3746204.83  | 36.88434 |
| 416218.79   | 3746204.83  | 24.25559 | 416268.79   | 3746204.83  | 17.25285 |

|           |            |           |           |            |           |
|-----------|------------|-----------|-----------|------------|-----------|
| 416318.79 | 3746204.83 | 12.99435  | 416368.79 | 3746204.83 | 10.19178  |
| 416418.79 | 3746204.83 | 8.23968   | 416468.79 | 3746204.83 | 6.82100   |
| 416518.79 | 3746204.83 | 5.75513   | 416018.79 | 3746254.83 | 138.81064 |
| 416068.79 | 3746254.83 | 109.28864 | 416118.79 | 3746254.83 | 129.24589 |
| 416168.79 | 3746254.83 | 69.34945  | 416218.79 | 3746254.83 | 33.32007  |
| 416268.79 | 3746254.83 | 21.10817  | 416318.79 | 3746254.83 | 14.96488  |
| 416368.79 | 3746254.83 | 11.31023  | 416418.79 | 3746254.83 | 8.92024   |
| 416468.79 | 3746254.83 | 7.25637   | 416518.79 | 3746254.83 | 6.04374   |
| 416018.79 | 3746304.83 | 132.50515 | 416068.79 | 3746304.83 | 122.18638 |
| 416118.79 | 3746304.83 | 122.72678 | 416168.79 | 3746304.83 | 82.78507  |
| 416218.79 | 3746304.83 | 37.51270  | 416268.79 | 3746304.83 | 22.83222  |
| 416318.79 | 3746304.83 | 15.79545  | 416368.79 | 3746304.83 | 11.74644  |
| 416418.79 | 3746304.83 | 9.16067   | 416468.79 | 3746304.83 | 7.39019   |
| 416518.79 | 3746304.83 | 6.11495   | 416018.79 | 3746354.83 | 63.95309  |
| 416068.79 | 3746354.83 | 82.84567  | 416118.79 | 3746354.83 | 116.23679 |
| 416168.79 | 3746354.83 | 83.90626  | 416218.79 | 3746354.83 | 38.88981  |
| 416268.79 | 3746354.83 | 23.29898  | 416318.79 | 3746354.83 | 15.89157  |
| 416368.79 | 3746354.83 | 11.71136  | 416418.79 | 3746354.83 | 9.07640   |
| 416468.79 | 3746354.83 | 7.28764   | 416518.79 | 3746354.83 | 6.00797   |
| 416018.79 | 3746404.83 | 46.23720  | 416068.79 | 3746404.83 | 70.05754  |
| 416118.79 | 3746404.83 | 112.18563 | 416168.79 | 3746404.83 | 83.31981  |
| 416218.79 | 3746404.83 | 38.93703  | 416268.79 | 3746404.83 | 23.05878  |
| 416318.79 | 3746404.83 | 15.52090  | 416368.79 | 3746404.83 | 11.33151  |
| 416418.79 | 3746404.83 | 8.73346   | 416468.79 | 3746404.83 | 6.99195   |
| 416518.79 | 3746404.83 | 5.75710   | 416018.79 | 3746454.83 | 35.78251  |
| 416068.79 | 3746454.83 | 57.84924  | 416118.79 | 3746454.83 | 104.53637 |
| 416168.79 | 3746454.83 | 109.10750 | 416218.79 | 3746454.83 | 37.46994  |
| 416268.79 | 3746454.83 | 21.48575  | 416318.79 | 3746454.83 | 14.40721  |
| 416368.79 | 3746454.83 | 10.52387  | 416418.79 | 3746454.83 | 8.13138   |
| 416468.79 | 3746454.83 | 6.53299   | 416518.79 | 3746454.83 | 5.39989   |
| 416018.79 | 3746504.83 | 26.03173  | 416068.79 | 3746504.83 | 36.33710  |
| 416118.79 | 3746504.83 | 62.77226  | 416168.79 | 3746504.83 | 55.77458  |
| 416218.79 | 3746504.83 | 28.63827  | 416268.79 | 3746504.83 | 17.96956  |
| 416318.79 | 3746504.83 | 12.60431  | 416368.79 | 3746504.83 | 9.43535   |
| 416418.79 | 3746504.83 | 7.39903   | 416468.79 | 3746504.83 | 6.00662   |
| 416518.79 | 3746504.83 | 5.00510   | 416018.79 | 3746554.83 | 18.88693  |
| 416068.79 | 3746554.83 | 23.02745  | 416118.79 | 3746554.83 | 28.30224  |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

SLINE4 \*\*\*

INCLUDING SOURCE(S): L0000091 , L0000092 , L0000093 , L0000094 , L0000095 ,  
L0000096 , L0000097 , L0000098 , L0000099 , L0000100 , L0000101 , L0000102 , L0000103 ,  
L0000104 , L0000105 , L0000106 , L0000107 , L0000108 , L0000109 , L0000110 , L0000111 ,  
L0000112 , L0000113 , L0000114 , L0000115 , L0000116 , L0000117 , L0000118 , ... ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC | X-COORD (M) | Y-COORD (M) | CONC |
|-------------|-------------|------|-------------|-------------|------|
|-------------|-------------|------|-------------|-------------|------|

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|           |            |          |           |            |          |
|-----------|------------|----------|-----------|------------|----------|
| 416168.79 | 3746554.83 | 27.60459 | 416218.79 | 3746554.83 | 20.59677 |
| 416268.79 | 3746554.83 | 14.70996 | 416318.79 | 3746554.83 | 10.90577 |
| 416368.79 | 3746554.83 | 8.41433  | 416418.79 | 3746554.83 | 6.71666  |
| 416468.79 | 3746554.83 | 5.51611  | 416518.79 | 3746554.83 | 4.63563  |
| 416018.79 | 3746604.83 | 14.20795 | 416068.79 | 3746604.83 | 16.11148 |
| 416118.79 | 3746604.83 | 17.81930 | 416168.79 | 3746604.83 | 17.57606 |
| 416218.79 | 3746604.83 | 15.09776 | 416268.79 | 3746604.83 | 12.04521 |
| 416318.79 | 3746604.83 | 9.46478  | 416368.79 | 3746604.83 | 7.53624  |
| 416418.79 | 3746604.83 | 6.12727  | 416468.79 | 3746604.83 | 5.08986  |
| 416518.79 | 3746604.83 | 4.31117  | 416018.79 | 3746654.83 | 11.05434 |
| 416068.79 | 3746654.83 | 12.06550 | 416118.79 | 3746654.83 | 12.78289 |
| 416168.79 | 3746654.83 | 12.61187 | 416218.79 | 3746654.83 | 11.47728 |
| 416268.79 | 3746654.83 | 9.85597  | 416318.79 | 3746654.83 | 8.19161  |
| 416368.79 | 3746654.83 | 6.75188  | 416418.79 | 3746654.83 | 5.60378  |
| 416468.79 | 3746654.83 | 4.71367  | 416518.79 | 3746654.83 | 4.02499  |
| 416018.79 | 3746704.83 | 8.85705  | 416068.79 | 3746704.83 | 9.45784  |
| 416118.79 | 3746704.83 | 9.81523  | 416168.79 | 3746704.83 | 9.68533  |
| 416218.79 | 3746704.83 | 9.05784  | 416268.79 | 3746704.83 | 8.12508  |
| 416318.79 | 3746704.83 | 7.06537  | 416368.79 | 3746704.83 | 6.03032  |
| 416418.79 | 3746704.83 | 5.12178  | 416468.79 | 3746704.83 | 4.37094  |
| 416518.79 | 3746704.83 | 3.76649  | 416302.62 | 3746499.91 | 14.24045 |
| 416312.84 | 3746498.80 | 13.33658 | 416322.84 | 3746499.46 | 12.47611 |
| 416332.84 | 3746498.80 | 11.74527 | 416342.39 | 3746499.24 | 11.07970 |
| 416190.87 | 3746435.25 | 58.41380 | 416189.75 | 3746447.47 | 60.94965 |
| 416301.03 | 3746253.85 | 16.72413 | 416335.27 | 3746290.44 | 14.12705 |
| 416331.87 | 3746279.46 | 14.29298 | 416361.93 | 3746288.35 | 12.10820 |
| 416370.04 | 3746286.52 | 11.57929 | 416384.15 | 3746286.52 | 10.76411 |
| 416388.59 | 3746285.74 | 10.52269 | 416400.10 | 3746294.10 | 9.98038  |
| 416406.37 | 3746294.62 | 9.68686  | 416409.51 | 3746291.23 | 9.53386  |
| 416422.31 | 3746291.23 | 8.98862  | 416428.85 | 3746288.87 | 8.72300  |
| 416444.80 | 3746287.83 | 8.13835  | 416448.19 | 3746291.75 | 8.03109  |
| 416459.69 | 3746291.75 | 7.65728  | 416466.23 | 3746288.87 | 7.45268  |
| 416481.65 | 3746287.04 | 7.01141  | 416485.31 | 3746291.23 | 6.91876  |
| 416499.95 | 3746290.96 | 6.54729  | 416505.44 | 3746288.35 | 6.41421  |
| 416520.34 | 3746287.31 | 6.07920  | 416525.57 | 3746291.23 | 5.97071  |
| 416540.99 | 3746294.62 | 5.66234  | 416545.17 | 3746289.92 | 5.58245  |
| 416557.98 | 3746293.58 | 5.35051  | 416562.95 | 3746288.35 | 5.26444  |
| 416578.63 | 3746286.26 | 5.00762  | 416580.72 | 3746290.18 | 4.97503  |
| 416595.36 | 3746289.13 | 4.75532  | 416600.85 | 3746291.49 | 4.67632  |
| 416614.97 | 3746286.52 | 4.48495  | 416619.15 | 3746289.66 | 4.42969  |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

SLINE4 \*\*\*

INCLUDING SOURCE(S): L0000091 , L0000092 , L0000093 , L0000094 , L0000095 ,  
L0000096 , L0000097 , L0000098 , L0000099 , L0000100 , L0000101 , L0000102 , L0000103 ,  
L0000104 , L0000105 , L0000106 , L0000107 , L0000108 , L0000109 , L0000110 , L0000111 ,  
L0000112 , L0000113 , L0000114 , L0000115 , L0000116 , L0000117 , L0000118 , ... ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC      | X-COORD (M) | Y-COORD (M) | CONC      |
|-------------|-------------|-----------|-------------|-------------|-----------|
| 416629.34   | 3746289.40  | 4.30111   | 416637.18   | 3746292.53  | 4.20469   |
| 416649.99   | 3746292.27  | 4.05654   | 416655.48   | 3746286.52  | 3.99824   |
| 416669.34   | 3746284.43  | 3.85163   | 416672.73   | 3746287.83  | 3.81552   |
| 416686.33   | 3746289.13  | 3.68030   | 416691.03   | 3746287.83  | 3.63626   |
| 416703.58   | 3746287.83  | 3.52096   | 416709.07   | 3746290.18  | 3.47090   |
| 416725.01   | 3746283.65  | 3.33934   | 416718.22   | 3746289.66  | 3.39251   |
| 416727.89   | 3746288.09  | 3.31335   | 416740.17   | 3746287.57  | 3.21618   |
| 416745.93   | 3746284.43  | 3.17387   | 416761.09   | 3746284.43  | 3.06219   |
| 416764.75   | 3746287.04  | 3.03457   | 416777.29   | 3746286.52  | 2.94831   |
| 416782.78   | 3746288.09  | 2.91058   | 416572.62   | 3746354.48  | 4.99429   |
| 416583.60   | 3746355.01  | 4.81946   | 416576.54   | 3746367.55  | 4.88623   |
| 416582.81   | 3746368.86  | 4.78412   | 416586.21   | 3746371.48  | 4.72302   |
| 416587.26   | 3746353.70  | 4.76796   | 416600.07   | 3746355.53  | 4.57576   |
| 416605.03   | 3746368.08  | 4.46631   | 416612.61   | 3746375.66  | 4.33855   |
| 416608.95   | 3746356.58  | 4.45014   | 416621.76   | 3746357.62  | 4.27960   |
| 416622.28   | 3746371.74  | 4.22851   | 416625.68   | 3746370.95  | 4.18894   |
| 416640.32   | 3746372.26  | 4.01057   | 416625.94   | 3746355.27  | 4.23392   |
| 416635.62   | 3746355.53  | 4.11551   | 416641.89   | 3746373.31  | 3.98926   |
| 416654.17   | 3746374.35  | 3.85003   | 416643.20   | 3746360.50  | 4.01314   |
| 416652.61   | 3746360.50  | 3.90780   | 416656.79   | 3746375.40  | 3.81876   |
| 416663.59   | 3746375.40  | 3.74762   | 416658.10   | 3746356.31  | 3.85966   |
| 416668.29   | 3746357.36  | 3.75016   | 416672.21   | 3746353.18  | 3.72088   |
| 416676.92   | 3746353.18  | 3.67383   | 416731.81   | 3746458.47  | 2.89991   |
| 416731.03   | 3746466.83  | 2.87943   | 416742.01   | 3746473.63  | 2.78560   |
| 416731.03   | 3746411.68  | 3.04641   | 416731.03   | 3746425.01  | 3.00733   |
| 416681.62   | 3746375.61  | 3.56843   | 416698.09   | 3746375.87  | 3.41634   |
| 416703.58   | 3746376.65  | 3.36608   | 416703.58   | 3746357.83  | 3.41393   |
| 416714.56   | 3746373.51  | 3.28123   | 416723.97   | 3746372.99  | 3.20587   |
| 416749.85   | 3746377.17  | 2.99946   | 416759.00   | 3746375.34  | 2.93901   |
| 416774.16   | 3746375.34  | 2.83658   | 416758.21   | 3746413.77  | 2.84904   |
| 416756.65   | 3746428.41  | 2.81990   | 416751.16   | 3746474.68  | 2.72423   |
| 416781.48   | 3746473.63  | 2.54752   | 416756.38   | 3746455.59  | 2.74583   |
| 416773.90   | 3746452.98  | 2.64546   | 416140.28   | 3746195.97  | 40.83467  |
| 416158.30   | 3746194.91  | 35.31550  | 416172.61   | 3746195.44  | 31.82147  |
| 416190.09   | 3746196.50  | 28.08851  | 416220.03   | 3746195.97  | 22.45648  |
| 416239.64   | 3746195.17  | 19.59171  | 416250.77   | 3746195.17  | 18.26530  |
| 416267.19   | 3746194.91  | 16.52501  | 416086.50   | 3746243.39  | 96.34694  |
| 416067.16   | 3746248.16  | 130.52010 | 416057.36   | 3746252.67  | 132.99704 |
| 416049.67   | 3746254.52  | 100.48888 | 416043.58   | 3746258.23  | 138.74885 |
| 416038.28   | 3746258.76  | 138.36088 | 416032.45   | 3746255.32  | 156.02141 |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

SLINE4 \*\*\*

INCLUDING SOURCE(S): L0000091 , L0000092 , L0000093 , L0000094 , L0000095 ,  
L0000096 , L0000097 , L0000098 , L0000099 , L0000100 , L0000101 , L0000102 , L0000103 ,  
L0000104 , L0000105 , L0000106 , L0000107 , L0000108 , L0000109 , L0000110 , L0000111 ,  
L0000112 , L0000113 , L0000114 , L0000115 , L0000116 , L0000117 , L0000118 , ... ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3

\*\*

| X-COORD (M) | Y-COORD (M) | CONC      | X-COORD (M) | Y-COORD (M) | CONC      |
|-------------|-------------|-----------|-------------|-------------|-----------|
| 416026.09   | 3746256.91  | 156.93691 | 416013.38   | 3746259.03  | 154.75203 |
| 416008.87   | 3746260.88  | 124.63076 | 416004.90   | 3746261.94  | 126.83169 |
| 415999.33   | 3746267.24  | 103.20526 | 415984.76   | 3746268.03  | 100.81373 |
| 415970.45   | 3746270.42  | 139.60067 | 415958.53   | 3746270.68  | 136.63450 |
| 415946.61   | 3746271.21  | 97.23172  | 415936.81   | 3746273.07  | 135.21235 |
| 415924.09   | 3746272.80  | 95.99230  | 415913.49   | 3746272.01  | 126.19292 |
| 415899.45   | 3746273.33  | 122.82046 | 415883.29   | 3746274.92  | 121.76052 |
| 415892.30   | 3746272.01  | 120.62221 | 415864.21   | 3746276.25  | 117.75837 |
| 415856.79   | 3746275.98  | 117.86735 | 415843.81   | 3746275.19  | 104.80751 |
| 415834.27   | 3746274.66  | 132.94241 | 415821.55   | 3746275.72  | 127.61837 |
| 415809.63   | 3746274.39  | 108.87840 | 415797.44   | 3746276.78  | 103.29495 |
| 415787.11   | 3746276.25  | 83.47847  |             |             |           |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

SLINE5 \*\*\*

INCLUDING SOURCE(S): L0000124 , L0000125 , L0000126 , L0000127 , L0000128 ,  
L0000129 , L0000130 , L0000131 , L0000132 , L0000133 , L0000134 , L0000135 , L0000136 ,  
L0000137 , L0000138 , L0000139 , L0000140 , L0000141 , L0000142 , L0000143 , L0000144 ,  
L0000145 , L0000146 , L0000147 , L0000148 , L0000149 , L0000150 , L0000151 , ... ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3

\*\*

| X-COORD (M) | Y-COORD (M) | CONC     | X-COORD (M) | Y-COORD (M) | CONC     |
|-------------|-------------|----------|-------------|-------------|----------|
| 416018.79   | 3746204.83  | 15.97468 | 416068.79   | 3746204.83  | 24.28687 |
| 416118.79   | 3746204.83  | 37.10535 | 416168.79   | 3746204.83  | 38.67725 |
| 416218.79   | 3746204.83  | 34.17972 | 416268.79   | 3746204.83  | 30.27631 |
| 416318.79   | 3746204.83  | 27.65597 | 416368.79   | 3746204.83  | 25.84082 |
| 416418.79   | 3746204.83  | 24.47245 | 416468.79   | 3746204.83  | 23.45234 |
| 416518.79   | 3746204.83  | 22.63194 | 416018.79   | 3746254.83  | 21.55126 |
| 416068.79   | 3746254.83  | 42.99862 | 416118.79   | 3746254.83  | 55.39733 |
| 416168.79   | 3746254.83  | 79.47735 | 416218.79   | 3746254.83  | 96.85640 |
| 416268.79   | 3746254.83  | 66.88678 | 416318.79   | 3746254.83  | 55.89176 |
| 416368.79   | 3746254.83  | 49.79030 | 416418.79   | 3746254.83  | 45.49847 |
| 416468.79   | 3746254.83  | 43.15730 | 416518.79   | 3746254.83  | 41.93604 |
| 416018.79   | 3746304.83  | 24.03889 | 416068.79   | 3746304.83  | 49.54336 |
| 416118.79   | 3746304.83  | 60.58632 | 416168.79   | 3746304.83  | 78.76299 |
| 416218.79   | 3746304.83  | 88.19186 | 416268.79   | 3746304.83  | 89.57386 |
| 416318.79   | 3746304.83  | 70.91705 | 416368.79   | 3746304.83  | 74.10254 |
| 416418.79   | 3746304.83  | 54.57534 | 416468.79   | 3746304.83  | 72.82758 |
| 416518.79   | 3746304.83  | 70.29306 | 416018.79   | 3746354.83  | 24.03427 |
| 416068.79   | 3746354.83  | 49.13226 | 416118.79   | 3746354.83  | 73.34784 |
| 416168.79   | 3746354.83  | 58.24329 | 416218.79   | 3746354.83  | 46.18867 |
| 416268.79   | 3746354.83  | 45.98404 | 416318.79   | 3746354.83  | 47.78953 |

|           |            |          |           |            |          |
|-----------|------------|----------|-----------|------------|----------|
| 416368.79 | 3746354.83 | 50.20462 | 416418.79 | 3746354.83 | 52.99166 |
| 416468.79 | 3746354.83 | 54.14853 | 416518.79 | 3746354.83 | 53.86865 |
| 416018.79 | 3746404.83 | 22.76327 | 416068.79 | 3746404.83 | 46.85655 |
| 416118.79 | 3746404.83 | 71.33094 | 416168.79 | 3746404.83 | 53.80855 |
| 416218.79 | 3746404.83 | 35.68644 | 416268.79 | 3746404.83 | 30.76603 |
| 416318.79 | 3746404.83 | 29.41082 | 416368.79 | 3746404.83 | 29.11879 |
| 416418.79 | 3746404.83 | 29.14600 | 416468.79 | 3746404.83 | 29.00546 |
| 416518.79 | 3746404.83 | 28.54468 | 416018.79 | 3746454.83 | 19.85969 |
| 416068.79 | 3746454.83 | 40.26142 | 416118.79 | 3746454.83 | 78.30086 |
| 416168.79 | 3746454.83 | 51.29298 | 416218.79 | 3746454.83 | 31.34466 |
| 416268.79 | 3746454.83 | 23.76608 | 416318.79 | 3746454.83 | 21.43465 |
| 416368.79 | 3746454.83 | 20.52393 | 416418.79 | 3746454.83 | 20.05925 |
| 416468.79 | 3746454.83 | 19.67027 | 416518.79 | 3746454.83 | 19.19840 |
| 416018.79 | 3746504.83 | 15.01419 | 416068.79 | 3746504.83 | 24.22643 |
| 416118.79 | 3746504.83 | 43.96608 | 416168.79 | 3746504.83 | 39.24671 |
| 416218.79 | 3746504.83 | 23.50155 | 416268.79 | 3746504.83 | 18.34822 |
| 416318.79 | 3746504.83 | 16.44177 | 416368.79 | 3746504.83 | 15.57876 |
| 416418.79 | 3746504.83 | 15.08035 | 416468.79 | 3746504.83 | 14.67824 |
| 416518.79 | 3746504.83 | 14.25188 | 416018.79 | 3746554.83 | 11.16831 |
| 416068.79 | 3746554.83 | 15.10403 | 416118.79 | 3746554.83 | 19.79725 |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

SLINE5 \*\*\*

INCLUDING SOURCE(S): L0000124 , L0000125 , L0000126 , L0000127 , L0000128 ,  
L0000129 , L0000130 , L0000131 , L0000132 , L0000133 , L0000134 , L0000135 , L0000136 ,  
L0000137 , L0000138 , L0000139 , L0000140 , L0000141 , L0000142 , L0000143 , L0000144 ,  
L0000145 , L0000146 , L0000147 , L0000148 , L0000149 , L0000150 , L0000151 , ... ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3

\*\*

| X-COORD (M) | Y-COORD (M) | CONC     | X-COORD (M) | Y-COORD (M) | CONC     |
|-------------|-------------|----------|-------------|-------------|----------|
| 416168.79   | 3746554.83  | 20.32951 | 416218.79   | 3746554.83  | 16.99660 |
| 416268.79   | 3746554.83  | 14.40495 | 416318.79   | 3746554.83  | 13.05977 |
| 416368.79   | 3746554.83  | 12.35284 | 416418.79   | 3746554.83  | 11.90992 |
| 416468.79   | 3746554.83  | 11.54884 | 416518.79   | 3746554.83  | 11.18019 |
| 416018.79   | 3746604.83  | 8.64976  | 416068.79   | 3746604.83  | 10.66001 |
| 416118.79   | 3746604.83  | 12.63272 | 416168.79   | 3746604.83  | 13.33474 |
| 416218.79   | 3746604.83  | 12.62051 | 416268.79   | 3746604.83  | 11.52183 |
| 416318.79   | 3746604.83  | 10.66542 | 416368.79   | 3746604.83  | 10.10996 |
| 416418.79   | 3746604.83  | 9.72841  | 416468.79   | 3746604.83  | 9.41227  |
| 416518.79   | 3746604.83  | 9.09636  | 416018.79   | 3746654.83  | 6.94730  |
| 416068.79   | 3746654.83  | 8.13669  | 416118.79   | 3746654.83  | 9.22131  |
| 416168.79   | 3746654.83  | 9.77007  | 416218.79   | 3746654.83  | 9.71302  |
| 416268.79   | 3746654.83  | 9.32097  | 416318.79   | 3746654.83  | 8.85297  |
| 416368.79   | 3746654.83  | 8.45409  | 416418.79   | 3746654.83  | 8.13870  |
| 416468.79   | 3746654.83  | 7.86621  | 416518.79   | 3746654.83  | 7.59643  |
| 416018.79   | 3746704.83  | 5.74790  | 416068.79   | 3746704.83  | 6.52671  |
| 416118.79   | 3746704.83  | 7.21614  | 416168.79   | 3746704.83  | 7.63155  |

|           |            |           |           |            |          |
|-----------|------------|-----------|-----------|------------|----------|
| 416218.79 | 3746704.83 | 7.74273   | 416268.79 | 3746704.83 | 7.64351  |
| 416318.79 | 3746704.83 | 7.42562   | 416368.79 | 3746704.83 | 7.17043  |
| 416418.79 | 3746704.83 | 6.92644   | 416468.79 | 3746704.83 | 6.69783  |
| 416518.79 | 3746704.83 | 6.46882   | 416302.62 | 3746499.91 | 17.30929 |
| 416312.84 | 3746498.80 | 17.10075  | 416322.84 | 3746499.46 | 16.79166 |
| 416332.84 | 3746498.80 | 16.63140  | 416342.39 | 3746499.24 | 16.41618 |
| 416190.87 | 3746435.25 | 43.32612  | 416189.75 | 3746447.47 | 45.56834 |
| 416301.03 | 3746253.85 | 57.64957  | 416335.27 | 3746290.44 | 71.02116 |
| 416331.87 | 3746279.46 | 79.30517  | 416361.93 | 3746288.35 | 91.13990 |
| 416370.04 | 3746286.52 | 85.51149  | 416384.15 | 3746286.52 | 81.33137 |
| 416388.59 | 3746285.74 | 79.68687  | 416400.10 | 3746294.10 | 93.31172 |
| 416406.37 | 3746294.62 | 68.90464  | 416409.51 | 3746291.23 | 64.79457 |
| 416422.31 | 3746291.23 | 83.33359  | 416428.85 | 3746288.87 | 99.73932 |
| 416444.80 | 3746287.83 | 93.28329  | 416448.19 | 3746291.75 | 83.37332 |
| 416459.69 | 3746291.75 | 81.31979  | 416466.23 | 3746288.87 | 95.17794 |
| 416481.65 | 3746287.04 | 88.83830  | 416485.31 | 3746291.23 | 80.25862 |
| 416499.95 | 3746290.96 | 101.45458 | 416505.44 | 3746288.35 | 92.19909 |
| 416520.34 | 3746287.31 | 88.49963  | 416525.57 | 3746291.23 | 77.81670 |
| 416540.99 | 3746294.62 | 85.97475  | 416545.17 | 3746289.92 | 74.62623 |
| 416557.98 | 3746293.58 | 84.03643  | 416562.95 | 3746288.35 | 90.52376 |
| 416578.63 | 3746286.26 | 83.76188  | 416580.72 | 3746290.18 | 74.26761 |
| 416595.36 | 3746289.13 | 91.83365  | 416600.85 | 3746291.49 | 75.85895 |
| 416614.97 | 3746286.52 | 83.13425  | 416619.15 | 3746289.66 | 92.74951 |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

SLINE5 \*\*\*

INCLUDING SOURCE(S): L0000124 , L0000125 , L0000126 , L0000127 , L0000128 ,  
 L0000129 , L0000130 , L0000131 , L0000132 , L0000133 , L0000134 , L0000135 , L0000136 ,  
 L0000137 , L0000138 , L0000139 , L0000140 , L0000141 , L0000142 , L0000143 , L0000144 ,  
 L0000145 , L0000146 , L0000147 , L0000148 , L0000149 , L0000150 , L0000151 , ... ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC     | X-COORD (M) | Y-COORD (M) | CONC     |
|-------------|-------------|----------|-------------|-------------|----------|
| 416629.34   | 3746289.40  | 91.23458 | 416637.18   | 3746292.53  | 76.40855 |
| 416649.99   | 3746292.27  | 77.08870 | 416655.48   | 3746286.52  | 81.17271 |
| 416669.34   | 3746284.43  | 74.90909 | 416672.73   | 3746287.83  | 83.81866 |
| 416686.33   | 3746289.13  | 86.72498 | 416691.03   | 3746287.83  | 82.35107 |
| 416703.58   | 3746287.83  | 81.04951 | 416709.07   | 3746290.18  | 88.02585 |
| 416725.01   | 3746283.65  | 67.64149 | 416718.22   | 3746289.66  | 84.92857 |
| 416727.89   | 3746288.09  | 78.60273 | 416740.17   | 3746287.57  | 74.65438 |
| 416745.93   | 3746284.43  | 65.42769 | 416761.09   | 3746284.43  | 60.89432 |
| 416764.75   | 3746287.04  | 65.51736 | 416777.29   | 3746286.52  | 57.43142 |
| 416782.78   | 3746288.09  | 56.81908 | 416572.62   | 3746354.48  | 53.49960 |
| 416583.60   | 3746355.01  | 52.79304 | 416576.54   | 3746367.55  | 43.15705 |
| 416582.81   | 3746368.86  | 42.22631 | 416586.21   | 3746371.48  | 40.61716 |
| 416587.26   | 3746353.70  | 54.01021 | 416600.07   | 3746355.53  | 51.96773 |
| 416605.03   | 3746368.08  | 42.25105 | 416612.61   | 3746375.66  | 37.80717 |

|           |            |          |           |            |          |
|-----------|------------|----------|-----------|------------|----------|
| 416608.95 | 3746356.58 | 50.79710 | 416621.76 | 3746357.62 | 49.54889 |
| 416622.28 | 3746371.74 | 39.66010 | 416625.68 | 3746370.95 | 40.01857 |
| 416640.32 | 3746372.26 | 38.85438 | 416625.94 | 3746355.27 | 51.57102 |
| 416635.62 | 3746355.53 | 51.03718 | 416641.89 | 3746373.31 | 38.23324 |
| 416654.17 | 3746374.35 | 37.27278 | 416643.20 | 3746360.50 | 46.51537 |
| 416652.61 | 3746360.50 | 46.18232 | 416656.79 | 3746375.40 | 36.64029 |
| 416663.59 | 3746375.40 | 36.38416 | 416658.10 | 3746356.31 | 49.51528 |
| 416668.29 | 3746357.36 | 48.14050 | 416672.21 | 3746353.18 | 51.91092 |
| 416676.92 | 3746353.18 | 51.67331 | 416731.81 | 3746458.47 | 14.40909 |
| 416731.03 | 3746466.83 | 13.66122 | 416742.01 | 3746473.63 | 12.71796 |
| 416731.03 | 3746411.68 | 21.06094 | 416731.03 | 3746425.01 | 18.64350 |
| 416681.62 | 3746375.61 | 35.49863 | 416698.09 | 3746375.87 | 34.49669 |
| 416703.58 | 3746376.65 | 33.78954 | 416703.58 | 3746357.83 | 45.68158 |
| 416714.56 | 3746373.51 | 34.57493 | 416723.97 | 3746372.99 | 34.07807 |
| 416749.85 | 3746377.17 | 29.46898 | 416759.00 | 3746375.34 | 29.01086 |
| 416774.16 | 3746375.34 | 26.55091 | 416758.21 | 3746413.77 | 18.81180 |
| 416756.65 | 3746428.41 | 16.67768 | 416751.16 | 3746474.68 | 12.31490 |
| 416781.48 | 3746473.63 | 11.20691 | 416756.38 | 3746455.59 | 13.67088 |
| 416773.90 | 3746452.98 | 13.06100 | 416140.28 | 3746195.97 | 33.28751 |
| 416158.30 | 3746194.91 | 32.89171 | 416172.61 | 3746195.44 | 32.75023 |
| 416190.09 | 3746196.50 | 32.34801 | 416220.03 | 3746195.97 | 30.18564 |
| 416239.64 | 3746195.17 | 28.68090 | 416250.77 | 3746195.17 | 28.04635 |
| 416267.19 | 3746194.91 | 27.10399 | 416086.50 | 3746243.39 | 56.70143 |
| 416067.16 | 3746248.16 | 39.52197 | 416057.36 | 3746252.67 | 34.64434 |
| 416049.67 | 3746254.52 | 31.20302 | 416043.58 | 3746258.23 | 29.23698 |
| 416038.28 | 3746258.76 | 27.35228 | 416032.45 | 3746255.32 | 25.07879 |

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\*\*\* 20:02:04

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

SLINE5 \*\*\*

INCLUDING SOURCE(S): L0000124 , L0000125 , L0000126 , L0000127 , L0000128 ,  
 L0000129 , L0000130 , L0000131 , L0000132 , L0000133 , L0000134 , L0000135 , L0000136 ,  
 L0000137 , L0000138 , L0000139 , L0000140 , L0000141 , L0000142 , L0000143 , L0000144 ,  
 L0000145 , L0000146 , L0000147 , L0000148 , L0000149 , L0000150 , L0000151 , ... ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3

\*\*

| X-COORD (M) | Y-COORD (M) | CONC     | X-COORD (M) | Y-COORD (M) | CONC     |
|-------------|-------------|----------|-------------|-------------|----------|
| 416026.09   | 3746256.91  | 23.49549 | 416013.38   | 3746259.03  | 20.74562 |
| 416008.87   | 3746260.88  | 19.98226 | 416004.90   | 3746261.94  | 19.31311 |
| 415999.33   | 3746267.24  | 18.63654 | 415984.76   | 3746268.03  | 16.47734 |
| 415970.45   | 3746270.42  | 14.80786 | 415958.53   | 3746270.68  | 13.58585 |
| 415946.61   | 3746271.21  | 12.53716 | 415936.81   | 3746273.07  | 11.80392 |
| 415924.09   | 3746272.80  | 10.91215 | 415913.49   | 3746272.01  | 10.24628 |
| 415899.45   | 3746273.33  | 9.49726  | 415883.29   | 3746274.92  | 8.74537  |
| 415892.30   | 3746272.01  | 9.12745  | 415864.21   | 3746276.25  | 7.97562  |
| 415856.79   | 3746275.98  | 7.70079  | 415843.81   | 3746275.19  | 7.25518  |
| 415834.27   | 3746274.66  | 6.95546  | 415821.55   | 3746275.72  | 6.59841  |
| 415809.63   | 3746274.39  | 6.27836  | 415797.44   | 3746276.78  | 5.99659  |

415787.11 3746276.25 5.76227  
\*\*\* AERMOD - VERSION 19191 \*\*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* 20:02:04

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL1 \*\*\*

INCLUDING SOURCE(S): VOL1 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC       | X-COORD (M) | Y-COORD (M) | CONC      |
|-------------|-------------|------------|-------------|-------------|-----------|
| 416018.79   | 3746204.83  | 5.68985    | 416068.79   | 3746204.83  | 6.49480   |
| 416118.79   | 3746204.83  | 7.39544    | 416168.79   | 3746204.83  | 8.33971   |
| 416218.79   | 3746204.83  | 9.22255    | 416268.79   | 3746204.83  | 9.88845   |
| 416318.79   | 3746204.83  | 10.17519   | 416368.79   | 3746204.83  | 10.00159  |
| 416418.79   | 3746204.83  | 9.42382    | 416468.79   | 3746204.83  | 8.59263   |
| 416518.79   | 3746204.83  | 7.67108    | 416018.79   | 3746254.83  | 6.65262   |
| 416068.79   | 3746254.83  | 7.77454    | 416118.79   | 3746254.83  | 9.11471   |
| 416168.79   | 3746254.83  | 10.63153   | 416218.79   | 3746254.83  | 12.16689  |
| 416268.79   | 3746254.83  | 13.40749   | 416318.79   | 3746254.83  | 13.96257  |
| 416368.79   | 3746254.83  | 13.61537   | 416418.79   | 3746254.83  | 12.51811  |
| 416468.79   | 3746254.83  | 11.04859   | 416518.79   | 3746254.83  | 9.55047   |
| 416018.79   | 3746304.83  | 7.83380    | 416068.79   | 3746304.83  | 9.40167   |
| 416118.79   | 3746304.83  | 11.41639   | 416168.79   | 3746304.83  | 13.93131  |
| 416218.79   | 3746304.83  | 16.79256   | 416268.79   | 3746304.83  | 19.38104  |
| 416318.79   | 3746304.83  | 20.62368   | 416368.79   | 3746304.83  | 19.81782  |
| 416418.79   | 3746304.83  | 17.47081   | 416468.79   | 3746304.83  | 14.67608  |
| 416518.79   | 3746304.83  | 12.15237   | 416018.79   | 3746354.83  | 9.26792   |
| 416068.79   | 3746354.83  | 11.47625   | 416118.79   | 3746354.83  | 14.53258  |
| 416168.79   | 3746354.83  | 18.80005   | 416218.79   | 3746354.83  | 24.51481  |
| 416268.79   | 3746354.83  | 30.79266   | 416318.79   | 3746354.83  | 34.26819  |
| 416368.79   | 3746354.83  | 31.91395   | 416418.79   | 3746354.83  | 26.01489  |
| 416468.79   | 3746354.83  | 20.26282   | 416518.79   | 3746354.83  | 15.83170  |
| 416018.79   | 3746404.83  | 10.86691   | 416068.79   | 3746404.83  | 13.98056  |
| 416118.79   | 3746404.83  | 18.66733   | 416168.79   | 3746404.83  | 26.07831  |
| 416218.79   | 3746404.83  | 38.22511   | 416268.79   | 3746404.83  | 56.67069  |
| 416318.79   | 3746404.83  | 70.82288   | 416368.79   | 3746404.83  | 60.62087  |
| 416418.79   | 3746404.83  | 42.14045   | 416468.79   | 3746404.83  | 29.05317  |
| 416518.79   | 3746404.83  | 20.80004   | 416018.79   | 3746454.83  | 12.23157  |
| 416068.79   | 3746454.83  | 16.33894   | 416118.79   | 3746454.83  | 23.12579  |
| 416168.79   | 3746454.83  | 35.59825   | 416218.79   | 3746454.83  | 62.25354  |
| 416268.79   | 3746454.83  | 130.34189  | 416318.79   | 3746454.83  | 251.51381 |
| 416368.79   | 3746454.83  | 153.00599  | 416418.79   | 3746454.83  | 72.47185  |
| 416468.79   | 3746454.83  | 40.48442   | 416518.79   | 3746454.83  | 25.80985  |
| 416018.79   | 3746504.83  | 12.73125   | 416068.79   | 3746504.83  | 17.28659  |
| 416118.79   | 3746504.83  | 25.15639   | 416168.79   | 3746504.83  | 40.84820  |
| 416218.79   | 3746504.83  | 80.97911   | 416268.79   | 3746504.83  | 259.87224 |
| 416318.79   | 3746504.83  | 7941.77404 | 416368.79   | 3746504.83  | 353.28183 |
| 416418.79   | 3746504.83  | 95.64168   | 416468.79   | 3746504.83  | 45.86223  |
| 416518.79   | 3746504.83  | 27.50669   | 416018.79   | 3746554.83  | 12.10009  |

416068.79 3746554.83 16.18486 416118.79 3746554.83 22.97093  
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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL1 \*\*\*

INCLUDING SOURCE(S): VOL1 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC       | X-COORD (M) | Y-COORD (M) | CONC       |
|-------------|-------------|------------|-------------|-------------|------------|
| 416168.79   | 3746554.83  | 35.57392   | 416218.79   | 3746554.83  | 63.18259   |
| 416268.79   | 3746554.83  | 140.04701  | 416318.79   | 3746554.83  | 331.29496  |
| 416368.79   | 3746554.83  | 186.98773  | 416418.79   | 3746554.83  | 76.40579   |
| 416468.79   | 3746554.83  | 40.11806   | 416518.79   | 3746554.83  | 24.96350   |
| 416018.79   | 3746604.83  | 10.77409   | 416068.79   | 3746604.83  | 13.96672   |
| 416118.79   | 3746604.83  | 18.89509   | 416168.79   | 3746604.83  | 27.03661   |
| 416218.79   | 3746604.83  | 41.54497   | 416268.79   | 3746604.83  | 68.03590   |
| 416318.79   | 3746604.83  | 98.84926   | 416368.79   | 3746604.83  | 86.09828   |
| 416418.79   | 3746604.83  | 52.96069   | 416468.79   | 3746604.83  | 32.22029   |
| 416518.79   | 3746604.83  | 21.27490   | 416018.79   | 3746654.83  | 9.35800    |
| 416068.79   | 3746654.83  | 11.77360   | 416118.79   | 3746654.83  | 15.26729   |
| 416168.79   | 3746654.83  | 20.48335   | 416218.79   | 3746654.83  | 28.33012   |
| 416268.79   | 3746654.83  | 39.14752   | 416318.79   | 3746654.83  | 48.59736   |
| 416368.79   | 3746654.83  | 47.02243   | 416418.79   | 3746654.83  | 36.22643   |
| 416468.79   | 3746654.83  | 25.51184   | 416518.79   | 3746654.83  | 18.06011   |
| 416018.79   | 3746704.83  | 8.12229    | 416068.79   | 3746704.83  | 9.95728    |
| 416118.79   | 3746704.83  | 12.44532   | 416168.79   | 3746704.83  | 15.82133   |
| 416218.79   | 3746704.83  | 20.26387   | 416268.79   | 3746704.83  | 25.42479   |
| 416318.79   | 3746704.83  | 29.40316   | 416368.79   | 3746704.83  | 29.40179   |
| 416418.79   | 3746704.83  | 25.37684   | 416468.79   | 3746704.83  | 19.98808   |
| 416518.79   | 3746704.83  | 15.24418   | 416302.62   | 3746499.91  | 1426.96457 |
| 416312.84   | 3746498.80  | 3601.49211 | 416322.84   | 3746499.46  | 7832.70754 |
| 416332.84   | 3746498.80  | 3591.78932 | 416342.39   | 3746499.24  | 1481.39033 |
| 416190.87   | 3746435.25  | 38.89269   | 416189.75   | 3746447.47  | 42.03561   |
| 416301.03   | 3746253.85  | 13.77133   | 416335.27   | 3746290.44  | 18.23002   |
| 416331.87   | 3746279.46  | 16.72533   | 416361.93   | 3746288.35  | 17.52145   |
| 416370.04   | 3746286.52  | 17.07706   | 416384.15   | 3746286.52  | 16.66449   |
| 416388.59   | 3746285.74  | 16.42302   | 416400.10   | 3746294.10  | 17.02079   |
| 416406.37   | 3746294.62  | 16.81351   | 416409.51   | 3746291.23  | 16.27294   |
| 416422.31   | 3746291.23  | 15.70742   | 416428.85   | 3746288.87  | 15.16764   |
| 416444.80   | 3746287.83  | 14.35163   | 416448.19   | 3746291.75  | 14.55077   |
| 416459.69   | 3746291.75  | 14.00583   | 416466.23   | 3746288.87  | 13.46826   |
| 416481.65   | 3746287.04  | 12.64987   | 416485.31   | 3746291.23  | 12.78291   |
| 416499.95   | 3746290.96  | 12.12256   | 416505.44   | 3746288.35  | 11.73113   |
| 416520.34   | 3746287.31  | 11.07863   | 416525.57   | 3746291.23  | 11.08528   |
| 416540.99   | 3746294.62  | 10.66318   | 416545.17   | 3746289.92  | 10.28413   |
| 416557.98   | 3746293.58  | 9.99510    | 416562.95   | 3746288.35  | 9.60522    |
| 416578.63   | 3746286.26  | 9.03026    | 416580.72   | 3746290.18  | 9.11105    |
| 416595.36   | 3746289.13  | 8.63885    | 416600.85   | 3746291.49  | 8.56058    |

416614.97 3746286.52 8.02333 416619.15 3746289.66 8.00737  
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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL1 \*\*\*

INCLUDING SOURCE(S): VOL1 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC     | X-COORD (M) | Y-COORD (M) | CONC     |
|-------------|-------------|----------|-------------|-------------|----------|
| 416629.34   | 3746289.40  | 7.74249  | 416637.18   | 3746292.53  | 7.63468  |
| 416649.99   | 3746292.27  | 7.32532  | 416655.48   | 3746286.52  | 7.06571  |
| 416669.34   | 3746284.43  | 6.73014  | 416672.73   | 3746287.83  | 6.73401  |
| 416686.33   | 3746289.13  | 6.49225  | 416691.03   | 3746287.83  | 6.37786  |
| 416703.58   | 3746287.83  | 6.14904  | 416709.07   | 3746290.18  | 6.09334  |
| 416725.01   | 3746283.65  | 5.71897  | 416718.22   | 3746289.66  | 5.92687  |
| 416727.89   | 3746288.09  | 5.74230  | 416740.17   | 3746287.57  | 5.54191  |
| 416745.93   | 3746284.43  | 5.41072  | 416761.09   | 3746284.43  | 5.19450  |
| 416764.75   | 3746287.04  | 5.17742  | 416777.29   | 3746286.52  | 5.00199  |
| 416782.78   | 3746288.09  | 4.94883  | 416572.62   | 3746354.48  | 12.34994 |
| 416583.60   | 3746355.01  | 11.80187 | 416576.54   | 3746367.55  | 12.83295 |
| 416582.81   | 3746368.86  | 12.53752 | 416586.21   | 3746371.48  | 12.47489 |
| 416587.26   | 3746353.70  | 11.55601 | 416600.07   | 3746355.53  | 11.02778 |
| 416605.03   | 3746368.08  | 11.32050 | 416612.61   | 3746375.66  | 11.25032 |
| 416608.95   | 3746356.58  | 10.66983 | 416621.76   | 3746357.62  | 10.16192 |
| 416622.28   | 3746371.74  | 10.64436 | 416625.68   | 3746370.95  | 10.46398 |
| 416640.32   | 3746372.26  | 9.88377  | 416625.94   | 3746355.27  | 9.91053  |
| 416635.62   | 3746355.53  | 9.54575  | 416641.89   | 3746373.31  | 9.85145  |
| 416654.17   | 3746374.35  | 9.39738  | 416643.20   | 3746360.50  | 9.41601  |
| 416652.61   | 3746360.50  | 9.07544  | 416656.79   | 3746375.40  | 9.32599  |
| 416663.59   | 3746375.40  | 9.07468  | 416658.10   | 3746356.31  | 8.77366  |
| 416668.29   | 3746357.36  | 8.46979  | 416672.21   | 3746353.18  | 8.24740  |
| 416676.92   | 3746353.18  | 8.10686  | 416731.81   | 3746458.47  | 7.81454  |
| 416731.03   | 3746466.83  | 7.86185  | 416742.01   | 3746473.63  | 7.52657  |
| 416731.03   | 3746411.68  | 7.50513  | 416731.03   | 3746425.01  | 7.63420  |
| 416681.62   | 3746375.61  | 8.45957  | 416698.09   | 3746375.87  | 7.95146  |
| 416703.58   | 3746376.65  | 7.80437  | 416703.58   | 3746357.83  | 7.46135  |
| 416714.56   | 3746373.51  | 7.44480  | 416723.97   | 3746372.99  | 7.19052  |
| 416749.85   | 3746377.17  | 6.62599  | 416759.00   | 3746375.34  | 6.40278  |
| 416774.16   | 3746375.34  | 6.08995  | 416758.21   | 3746413.77  | 6.80238  |
| 416756.65   | 3746428.41  | 6.94822  | 416751.16   | 3746474.68  | 7.25765  |
| 416781.48   | 3746473.63  | 6.46638  | 416756.38   | 3746455.59  | 7.08205  |
| 416773.90   | 3746452.98  | 6.62331  | 416140.28   | 3746195.97  | 7.51367  |
| 416158.30   | 3746194.91  | 7.79213  | 416172.61   | 3746195.44  | 8.05579  |
| 416190.09   | 3746196.50  | 8.38946  | 416220.03   | 3746195.97  | 8.83358  |
| 416239.64   | 3746195.17  | 9.06225  | 416250.77   | 3746195.17  | 9.19463  |
| 416267.19   | 3746194.91  | 9.34934  | 416086.50   | 3746243.39  | 7.86747  |
| 416067.16   | 3746248.16  | 7.54769  | 416057.36   | 3746252.67  | 7.44127  |
| 416049.67   | 3746254.52  | 7.31193  | 416043.58   | 3746258.23  | 7.26616  |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*  
\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:  
VOL1 \*\*\*  
INCLUDING SOURCE(S): VOL1 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC    | X-COORD (M) | Y-COORD (M) | CONC    |
|-------------|-------------|---------|-------------|-------------|---------|
| 416026.09   | 3746256.91  | 6.84945 | 416013.38   | 3746259.03  | 6.63128 |
| 416008.87   | 3746260.88  | 6.57819 | 416004.90   | 3746261.94  | 6.51996 |
| 415999.33   | 3746267.24  | 6.51465 | 415984.76   | 3746268.03  | 6.24476 |
| 415970.45   | 3746270.42  | 6.02201 | 415958.53   | 3746270.68  | 5.81602 |
| 415946.61   | 3746271.21  | 5.62410 | 415936.81   | 3746273.07  | 5.49359 |
| 415924.09   | 3746272.80  | 5.29350 | 415913.49   | 3746272.01  | 5.12772 |
| 415899.45   | 3746273.33  | 4.94828 | 415883.29   | 3746274.92  | 4.75345 |
| 415892.30   | 3746272.01  | 4.83735 | 415864.21   | 3746276.25  | 4.53175 |
| 415856.79   | 3746275.98  | 4.44191 | 415843.81   | 3746275.19  | 4.28827 |
| 415834.27   | 3746274.66  | 4.18096 | 415821.55   | 3746275.72  | 4.05884 |
| 415809.63   | 3746274.39  | 3.93085 | 415797.44   | 3746276.78  | 3.83426 |
| 415787.11   | 3746276.25  | 3.73671 |             |             |         |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*  
\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:  
VOL2 \*\*\*  
INCLUDING SOURCE(S): VOL2 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC     | X-COORD (M) | Y-COORD (M) | CONC     |
|-------------|-------------|----------|-------------|-------------|----------|
| 416018.79   | 3746204.83  | 5.84209  | 416068.79   | 3746204.83  | 6.66828  |
| 416118.79   | 3746204.83  | 7.58334  | 416168.79   | 3746204.83  | 8.52556  |
| 416218.79   | 3746204.83  | 9.37865  | 416268.79   | 3746204.83  | 9.98051  |
| 416318.79   | 3746204.83  | 10.17749 | 416368.79   | 3746204.83  | 9.91436  |
| 416418.79   | 3746204.83  | 9.27234  | 416468.79   | 3746204.83  | 8.41088  |
| 416518.79   | 3746204.83  | 7.48750  | 416018.79   | 3746254.83  | 6.85984  |
| 416068.79   | 3746254.83  | 8.02530  | 416118.79   | 3746254.83  | 9.40692  |
| 416168.79   | 3746254.83  | 10.94490 | 416218.79   | 3746254.83  | 12.45110 |
| 416268.79   | 3746254.83  | 13.58480 | 416318.79   | 3746254.83  | 13.96586 |
| 416368.79   | 3746254.83  | 13.44523 | 416418.79   | 3746254.83  | 12.24119 |
| 416468.79   | 3746254.83  | 10.74285 | 416518.79   | 3746254.83  | 9.26659  |

|           |            |            |           |            |           |
|-----------|------------|------------|-----------|------------|-----------|
| 416018.79 | 3746304.83 | 8.11635    | 416068.79 | 3746304.83 | 9.76588   |
| 416118.79 | 3746304.83 | 11.87978   | 416168.79 | 3746304.83 | 14.48737  |
| 416218.79 | 3746304.83 | 17.36226   | 416268.79 | 3746304.83 | 19.77320  |
| 416318.79 | 3746304.83 | 20.62826   | 416368.79 | 3746304.83 | 19.43718  |
| 416418.79 | 3746304.83 | 16.91583   | 416468.79 | 3746304.83 | 14.13739  |
| 416518.79 | 3746304.83 | 11.70358   | 416018.79 | 3746354.83 | 9.65623   |
| 416068.79 | 3746354.83 | 12.00913   | 416118.79 | 3746354.83 | 15.27681  |
| 416168.79 | 3746354.83 | 19.82901   | 416218.79 | 3746354.83 | 25.79369  |
| 416268.79 | 3746354.83 | 31.85728   | 416318.79 | 3746354.83 | 34.27198  |
| 416368.79 | 3746354.83 | 30.87297   | 416418.79 | 3746354.83 | 24.77983  |
| 416468.79 | 3746354.83 | 19.26790   | 416518.79 | 3746354.83 | 15.09747  |
| 416018.79 | 3746404.83 | 11.39878   | 416068.79 | 3746404.83 | 14.76499  |
| 416118.79 | 3746404.83 | 19.88132   | 416168.79 | 3746404.83 | 28.04814  |
| 416218.79 | 3746404.83 | 41.43741   | 416268.79 | 3746404.83 | 60.63869  |
| 416318.79 | 3746404.83 | 70.78924   | 416368.79 | 3746404.83 | 56.77049  |
| 416418.79 | 3746404.83 | 39.03894   | 416468.79 | 3746404.83 | 27.08392  |
| 416518.79 | 3746404.83 | 19.55310   | 416018.79 | 3746454.83 | 12.91208  |
| 416068.79 | 3746454.83 | 17.42229   | 416118.79 | 3746454.83 | 25.01346  |
| 416168.79 | 3746454.83 | 39.33385   | 416218.79 | 3746454.83 | 71.06368  |
| 416268.79 | 3746454.83 | 153.78781  | 416318.79 | 3746454.83 | 250.20457 |
| 416368.79 | 3746454.83 | 130.52316  | 416418.79 | 3746454.83 | 63.66149  |
| 416468.79 | 3746454.83 | 36.67076   | 416518.79 | 3746454.83 | 23.86479  |
| 416018.79 | 3746504.83 | 13.47562   | 416068.79 | 3746504.83 | 18.51355  |
| 416118.79 | 3746504.83 | 27.42525   | 416168.79 | 3746504.83 | 45.89029  |
| 416218.79 | 3746504.83 | 96.73959   | 416268.79 | 3746504.83 | 376.05749 |
| 416318.79 | 3746504.83 | 7624.02472 | 416368.79 | 3746504.83 | 248.83021 |
| 416418.79 | 3746504.83 | 80.32763   | 416468.79 | 3746504.83 | 40.86601  |
| 416518.79 | 3746504.83 | 25.23997   | 416018.79 | 3746554.83 | 12.77578  |
| 416068.79 | 3746554.83 | 17.26497   | 416118.79 | 3746554.83 | 24.86701  |

\*\*\* AERMOD - VERSION 19191 \*\*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23  
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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL2 \*\*\*

INCLUDING SOURCE(S): VOL2 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC      | X-COORD (M) | Y-COORD (M) | CONC      |
|-------------|-------------|-----------|-------------|-------------|-----------|
| 416168.79   | 3746554.83  | 39.38467  | 416218.79   | 3746554.83  | 72.54552  |
| 416268.79   | 3746554.83  | 169.79332 | 416318.79   | 3746554.83  | 337.36394 |
| 416368.79   | 3746554.83  | 153.51952 | 416418.79   | 3746554.83  | 65.95782  |
| 416468.79   | 3746554.83  | 36.09310  | 416518.79   | 3746554.83  | 23.01963  |
| 416018.79   | 3746604.83  | 11.31521  | 416068.79   | 3746604.83  | 14.78092  |
| 416118.79   | 3746604.83  | 20.19789  | 416168.79   | 3746604.83  | 29.28224  |
| 416218.79   | 3746604.83  | 45.68924  | 416268.79   | 3746604.83  | 74.95576  |
| 416318.79   | 3746604.83  | 100.80377 | 416368.79   | 3746604.83  | 79.16603  |
| 416418.79   | 3746604.83  | 47.72089  | 416468.79   | 3746604.83  | 29.44860  |
| 416518.79   | 3746604.83  | 19.77254  | 416018.79   | 3746654.83  | 9.77653   |
| 416068.79   | 3746654.83  | 12.36973  | 416118.79   | 3746654.83  | 16.14665  |

|           |            |            |           |            |            |
|-----------|------------|------------|-----------|------------|------------|
| 416168.79 | 3746654.83 | 21.81139   | 416218.79 | 3746654.83 | 30.28458   |
| 416268.79 | 3746654.83 | 41.44295   | 416318.79 | 3746654.83 | 49.37924   |
| 416368.79 | 3746654.83 | 45.26378   | 416418.79 | 3746654.83 | 33.87767   |
| 416468.79 | 3746654.83 | 23.75594   | 416518.79 | 3746654.83 | 16.92871   |
| 416018.79 | 3746704.83 | 8.44702    | 416068.79 | 3746704.83 | 10.39556   |
| 416118.79 | 3746704.83 | 13.04170   | 416168.79 | 3746704.83 | 16.62278   |
| 416218.79 | 3746704.83 | 21.27029   | 416268.79 | 3746704.83 | 26.41061   |
| 416318.79 | 3746704.83 | 29.78389   | 416368.79 | 3746704.83 | 28.84880   |
| 416418.79 | 3746704.83 | 24.32011   | 416468.79 | 3746704.83 | 18.95285   |
| 416518.79 | 3746704.83 | 14.43907   | 416302.62 | 3746499.91 | 3797.65529 |
| 416312.84 | 3746498.80 | 7401.58893 | 416322.84 | 3746499.46 | 3761.26269 |
| 416332.84 | 3746498.80 | 1412.64338 | 416342.39 | 3746499.24 | 747.78883  |
| 416190.87 | 3746435.25 | 42.86572   | 416189.75 | 3746447.47 | 46.74242   |
| 416301.03 | 3746253.85 | 13.83978   | 416335.27 | 3746290.44 | 18.12510   |
| 416331.87 | 3746279.46 | 16.65713   | 416361.93 | 3746288.35 | 17.26814   |
| 416370.04 | 3746286.52 | 16.79342   | 416384.15 | 3746286.52 | 16.32428   |
| 416388.59 | 3746285.74 | 16.07196   | 416400.10 | 3746294.10 | 16.58411   |
| 416406.37 | 3746294.62 | 16.35796   | 416409.51 | 3746291.23 | 15.83365   |
| 416422.31 | 3746291.23 | 15.24820   | 416428.85 | 3746288.87 | 14.71697   |
| 416444.80 | 3746287.83 | 13.90044   | 416448.19 | 3746291.75 | 14.07670   |
| 416459.69 | 3746291.75 | 13.53643   | 416466.23 | 3746288.87 | 13.01890   |
| 416481.65 | 3746287.04 | 12.22308   | 416485.31 | 3746291.23 | 12.34063   |
| 416499.95 | 3746290.96 | 11.70075   | 416505.44 | 3746288.35 | 11.32755   |
| 416520.34 | 3746287.31 | 10.69965   | 416525.57 | 3746291.23 | 10.70037   |
| 416540.99 | 3746294.62 | 10.29123   | 416545.17 | 3746289.92 | 9.93297    |
| 416557.98 | 3746293.58 | 9.65273    | 416562.95 | 3746288.35 | 9.28386    |
| 416578.63 | 3746286.26 | 8.73480    | 416580.72 | 3746290.18 | 8.80961    |
| 416595.36 | 3746289.13 | 8.35856    | 416600.85 | 3746291.49 | 8.28248    |
| 416614.97 | 3746286.52 | 7.77093    | 416619.15 | 3746289.66 | 7.75431    |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL2 \*\*\*

INCLUDING SOURCE(S): VOL2 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC     | X-COORD (M) | Y-COORD (M) | CONC     |
|-------------|-------------|----------|-------------|-------------|----------|
| 416629.34   | 3746289.40  | 7.50102  | 416637.18   | 3746292.53  | 7.39669  |
| 416649.99   | 3746292.27  | 7.10082  | 416655.48   | 3746286.52  | 6.85414  |
| 416669.34   | 3746284.43  | 6.53321  | 416672.73   | 3746287.83  | 6.53597  |
| 416686.33   | 3746289.13  | 6.30390  | 416691.03   | 3746287.83  | 6.19457  |
| 416703.58   | 3746287.83  | 5.97507  | 416709.07   | 3746290.18  | 5.92109  |
| 416725.01   | 3746283.65  | 5.56308  | 416718.22   | 3746289.66  | 5.76145  |
| 416727.89   | 3746288.09  | 5.58457  | 416740.17   | 3746287.57  | 5.39217  |
| 416745.93   | 3746284.43  | 5.26666  | 416761.09   | 3746284.43  | 5.05869  |
| 416764.75   | 3746287.04  | 5.04181  | 416777.29   | 3746286.52  | 4.87309  |
| 416782.78   | 3746288.09  | 4.82166  | 416572.62   | 3746354.48  | 11.82564 |
| 416583.60   | 3746355.01  | 11.30908 | 416576.54   | 3746367.55  | 12.26220 |

|           |            |          |           |            |          |
|-----------|------------|----------|-----------|------------|----------|
| 416582.81 | 3746368.86 | 11.98351 | 416586.21 | 3746371.48 | 11.92145 |
| 416587.26 | 3746353.70 | 11.07895 | 416600.07 | 3746355.53 | 10.57931 |
| 416605.03 | 3746368.08 | 10.84226 | 416612.61 | 3746375.66 | 10.76872 |
| 416608.95 | 3746356.58 | 10.24089 | 416621.76 | 3746357.62 | 9.76095  |
| 416622.28 | 3746371.74 | 10.20336 | 416625.68 | 3746370.95 | 10.03444 |
| 416640.32 | 3746372.26 | 9.48741  | 416625.94 | 3746355.27 | 9.52549  |
| 416635.62 | 3746355.53 | 9.18069  | 416641.89 | 3746373.31 | 9.45621  |
| 416654.17 | 3746374.35 | 9.02783  | 416643.20 | 3746360.50 | 9.05469  |
| 416652.61 | 3746360.50 | 8.73291  | 416656.79 | 3746375.40 | 8.95988  |
| 416663.59 | 3746375.40 | 8.72301  | 416658.10 | 3746356.31 | 8.45000  |
| 416668.29 | 3746357.36 | 8.16173  | 416672.21 | 3746353.18 | 7.95317  |
| 416676.92 | 3746353.18 | 7.81991  | 416731.81 | 3746458.47 | 7.50591  |
| 416731.03 | 3746466.83 | 7.54866  | 416742.01 | 3746473.63 | 7.23306  |
| 416731.03 | 3746411.68 | 7.22707  | 416731.03 | 3746425.01 | 7.34470  |
| 416681.62 | 3746375.61 | 8.14244  | 416698.09 | 3746375.87 | 7.66208  |
| 416703.58 | 3746376.65 | 7.52260  | 416703.58 | 3746357.83 | 7.20528  |
| 416714.56 | 3746373.51 | 7.18339  | 416723.97 | 3746372.99 | 6.94252  |
| 416749.85 | 3746377.17 | 6.40537  | 416759.00 | 3746375.34 | 6.19376  |
| 416774.16 | 3746375.34 | 5.89615  | 416758.21 | 3746413.77 | 6.56280  |
| 416756.65 | 3746428.41 | 6.69721  | 416751.16 | 3746474.68 | 6.98033  |
| 416781.48 | 3746473.63 | 6.23533  | 416756.38 | 3746455.59 | 6.81804  |
| 416773.90 | 3746452.98 | 6.38602  | 416140.28 | 3746195.97 | 7.68868  |
| 416158.30 | 3746194.91 | 7.96332  | 416172.61 | 3746195.44 | 8.22403  |
| 416190.09 | 3746196.50 | 8.55195  | 416220.03 | 3746195.97 | 8.97406  |
| 416239.64 | 3746195.17 | 9.18183  | 416250.77 | 3746195.17 | 9.30100  |
| 416267.19 | 3746194.91 | 9.43349  | 416086.50 | 3746243.39 | 8.11067  |
| 416067.16 | 3746248.16 | 7.78502  | 416057.36 | 3746252.67 | 7.67818  |
| 416049.67 | 3746254.52 | 7.54520  | 416043.58 | 3746258.23 | 7.49987  |
| 416038.28 | 3746258.76 | 7.38851  | 416032.45 | 3746255.32 | 7.16853  |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL2 \*\*\*

INCLUDING SOURCE(S): VOL2 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC    | X-COORD (M) | Y-COORD (M) | CONC    |
|-------------|-------------|---------|-------------|-------------|---------|
| 416026.09   | 3746256.91  | 7.06561 | 416013.38   | 3746259.03  | 6.83927 |
| 416008.87   | 3746260.88  | 6.78462 | 416004.90   | 3746261.94  | 6.72428 |
| 415999.33   | 3746267.24  | 6.72046 | 415984.76   | 3746268.03  | 6.43891 |
| 415970.45   | 3746270.42  | 6.20688 | 415958.53   | 3746270.68  | 5.99184 |
| 415946.61   | 3746271.21  | 5.79158 | 415936.81   | 3746273.07  | 5.65568 |
| 415924.09   | 3746272.80  | 5.44684 | 415913.49   | 3746272.01  | 5.27385 |
| 415899.45   | 3746273.33  | 5.08696 | 415883.29   | 3746274.92  | 4.88413 |
| 415892.30   | 3746272.01  | 4.97123 | 415864.21   | 3746276.25  | 4.65342 |
| 415856.79   | 3746275.98  | 4.55991 | 415843.81   | 3746275.19  | 4.40003 |
| 415834.27   | 3746274.66  | 4.28844 | 415821.55   | 3746275.72  | 4.16162 |
| 415809.63   | 3746274.39  | 4.02863 | 415797.44   | 3746276.78  | 3.92851 |

\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL3 \*\*\*

INCLUDING SOURCE(S): VOL3 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC       | X-COORD (M) | Y-COORD (M) | CONC      |
|-------------|-------------|------------|-------------|-------------|-----------|
| 416018.79   | 3746204.83  | 5.99878    | 416068.79   | 3746204.83  | 6.84545   |
| 416118.79   | 3746204.83  | 7.77251    | 416168.79   | 3746204.83  | 8.70802   |
| 416218.79   | 3746204.83  | 9.52469    | 416268.79   | 3746204.83  | 10.05604  |
| 416318.79   | 3746204.83  | 10.16089   | 416368.79   | 3746204.83  | 9.81173   |
| 416418.79   | 3746204.83  | 9.11211    | 416468.79   | 3746204.83  | 8.22684   |
| 416518.79   | 3746204.83  | 7.30592    | 416018.79   | 3746254.83  | 7.07547   |
| 416068.79   | 3746254.83  | 8.28490    | 416118.79   | 3746254.83  | 9.70580   |
| 416168.79   | 3746254.83  | 11.25755   | 416218.79   | 3746254.83  | 12.72063  |
| 416268.79   | 3746254.83  | 13.73122   | 416318.79   | 3746254.83  | 13.93171  |
| 416368.79   | 3746254.83  | 13.24722   | 416418.79   | 3746254.83  | 11.95281  |
| 416468.79   | 3746254.83  | 10.43857   | 416518.79   | 3746254.83  | 8.99015   |
| 416018.79   | 3746304.83  | 8.41359    | 416068.79   | 3746304.83  | 10.14884  |
| 416118.79   | 3746304.83  | 12.36368   | 416168.79   | 3746304.83  | 15.05589  |
| 416218.79   | 3746304.83  | 17.91503   | 416268.79   | 3746304.83  | 20.10115  |
| 416318.79   | 3746304.83  | 20.54613   | 416368.79   | 3746304.83  | 19.00238  |
| 416418.79   | 3746304.83  | 16.35255   | 416468.79   | 3746304.83  | 13.61409  |
| 416518.79   | 3746304.83  | 11.27420   | 416018.79   | 3746354.83  | 10.06916  |
| 416068.79   | 3746354.83  | 12.57826   | 416118.79   | 3746354.83  | 16.07280  |
| 416168.79   | 3746354.83  | 20.91864   | 416218.79   | 3746354.83  | 27.08706  |
| 416268.79   | 3746354.83  | 32.77240   | 416318.79   | 3746354.83  | 34.01888  |
| 416368.79   | 3746354.83  | 29.72687   | 416418.79   | 3746354.83  | 23.57797  |
| 416468.79   | 3746354.83  | 18.32906   | 416518.79   | 3746354.83  | 14.40781  |
| 416018.79   | 3746404.83  | 11.97159   | 416068.79   | 3746404.83  | 15.61759  |
| 416118.79   | 3746404.83  | 21.21413   | 416168.79   | 3746404.83  | 30.22625  |
| 416218.79   | 3746404.83  | 44.93037   | 416268.79   | 3746404.83  | 64.30677  |
| 416318.79   | 3746404.83  | 69.56342   | 416368.79   | 3746404.83  | 52.87844  |
| 416418.79   | 3746404.83  | 36.19207   | 416468.79   | 3746404.83  | 25.29014  |
| 416518.79   | 3746404.83  | 18.41061   | 416018.79   | 3746454.83  | 13.65451  |
| 416068.79   | 3746454.83  | 18.62302   | 416118.79   | 3746454.83  | 27.15214  |
| 416168.79   | 3746454.83  | 43.70065   | 416218.79   | 3746454.83  | 81.76534  |
| 416268.79   | 3746454.83  | 180.98390  | 416318.79   | 3746454.83  | 233.02169 |
| 416368.79   | 3746454.83  | 111.63390  | 416418.79   | 3746454.83  | 56.31532  |
| 416468.79   | 3746454.83  | 33.37689   | 416518.79   | 3746454.83  | 22.13747  |
| 416018.79   | 3746504.83  | 14.29236   | 416068.79   | 3746504.83  | 19.88619  |
| 416118.79   | 3746504.83  | 30.03989   | 416168.79   | 3746504.83  | 52.00340  |
| 416218.79   | 3746504.83  | 118.00872  | 416268.79   | 3746504.83  | 599.10618 |
| 416318.79   | 3746504.83  | 2246.43119 | 416368.79   | 3746504.83  | 185.73435 |
| 416418.79   | 3746504.83  | 68.56501   | 416468.79   | 3746504.83  | 36.68293  |
| 416518.79   | 3746504.83  | 23.25691   | 416018.79   | 3746554.83  | 13.51341  |

416068.79 3746554.83 18.46344 416118.79 3746554.83 27.01998  
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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL3 \*\*\*

INCLUDING SOURCE(S): VOL3 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC       | X-COORD (M) | Y-COORD (M) | CONC       |
|-------------|-------------|------------|-------------|-------------|------------|
| 416168.79   | 3746554.83  | 43.86199   | 416218.79   | 3746554.83  | 84.10722   |
| 416268.79   | 3746554.83  | 207.32805  | 416318.79   | 3746554.83  | 313.91540  |
| 416368.79   | 3746554.83  | 126.89168  | 416418.79   | 3746554.83  | 57.50925   |
| 416468.79   | 3746554.83  | 32.66660   | 416518.79   | 3746554.83  | 21.30505   |
| 416018.79   | 3746604.83  | 11.89988   | 416068.79   | 3746604.83  | 15.67060   |
| 416118.79   | 3746604.83  | 21.64152   | 416168.79   | 3746604.83  | 31.80960   |
| 416218.79   | 3746604.83  | 50.37963   | 416268.79   | 3746604.83  | 82.03957   |
| 416318.79   | 3746604.83  | 100.24003  | 416368.79   | 3746604.83  | 72.08021   |
| 416418.79   | 3746604.83  | 43.07271   | 416468.79   | 3746604.83  | 27.01117   |
| 416518.79   | 3746604.83  | 18.42935   | 416018.79   | 3746654.83  | 10.22446   |
| 416068.79   | 3746654.83  | 13.01232   | 416118.79   | 3746654.83  | 17.10052   |
| 416168.79   | 3746654.83  | 23.25323   | 416218.79   | 3746654.83  | 32.36487   |
| 416268.79   | 3746654.83  | 43.63658   | 416318.79   | 3746654.83  | 49.60867   |
| 416368.79   | 3746654.83  | 43.21019   | 416418.79   | 3746654.83  | 31.60645   |
| 416468.79   | 3746654.83  | 22.13922   | 416518.79   | 3746654.83  | 15.89595   |
| 416018.79   | 3746704.83  | 8.79140    | 416068.79   | 3746704.83  | 10.86160   |
| 416118.79   | 3746704.83  | 13.67565   | 416168.79   | 3746704.83  | 17.46872   |
| 416218.79   | 3746704.83  | 22.30281   | 416268.79   | 3746704.83  | 27.32881   |
| 416318.79   | 3746704.83  | 29.97829   | 416368.79   | 3746704.83  | 28.14493   |
| 416418.79   | 3746704.83  | 23.23504   | 416468.79   | 3746704.83  | 17.95634   |
| 416518.79   | 3746704.83  | 13.68350   | 416302.62   | 3746499.91  | 7975.44119 |
| 416312.84   | 3746498.80  | 3591.78932 | 416322.84   | 3746499.46  | 1436.62240 |
| 416332.84   | 3746498.80  | 724.65147  | 416342.39   | 3746499.24  | 451.62565  |
| 416190.87   | 3746435.25  | 47.43856   | 416189.75   | 3746447.47  | 52.26514   |
| 416301.03   | 3746253.85  | 13.87174   | 416335.27   | 3746290.44  | 17.95729   |
| 416331.87   | 3746279.46  | 16.53565   | 416361.93   | 3746288.35  | 16.96729   |
| 416370.04   | 3746286.52  | 16.46839   | 416384.15   | 3746286.52  | 15.95170   |
| 416388.59   | 3746285.74  | 15.69161   | 416400.10   | 3746294.10  | 16.12441   |
| 416406.37   | 3746294.62  | 15.88385   | 416409.51   | 3746291.23  | 15.37790   |
| 416422.31   | 3746291.23  | 14.78033   | 416428.85   | 3746288.87  | 14.26076   |
| 416444.80   | 3746287.83  | 13.45061   | 416448.19   | 3746291.75  | 13.60642   |
| 416459.69   | 3746291.75  | 13.07473   | 416466.23   | 3746288.87  | 12.57803   |
| 416481.65   | 3746287.04  | 11.80729   | 416485.31   | 3746291.23  | 11.91127   |
| 416499.95   | 3746290.96  | 11.29331   | 416505.44   | 3746288.35  | 10.93792   |
| 416520.34   | 3746287.31  | 10.33489   | 416525.57   | 3746291.23  | 10.33076   |
| 416540.99   | 3746294.62  | 9.93513    | 416545.17   | 3746289.92  | 9.59646    |
| 416557.98   | 3746293.58  | 9.32528    | 416562.95   | 3746288.35  | 8.97618    |
| 416578.63   | 3746286.26  | 8.45195    | 416580.72   | 3746290.18  | 8.52131    |
| 416595.36   | 3746289.13  | 8.09047    | 416600.85   | 3746291.49  | 8.01659    |

416614.97 3746286.52 7.52936 416619.15 3746289.66 7.51223  
\*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23  
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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL3 \*\*\*

INCLUDING SOURCE(S): VOL3 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC     | X-COORD (M) | Y-COORD (M) | CONC     |
|-------------|-------------|----------|-------------|-------------|----------|
| 416629.34   | 3746289.40  | 7.26996  | 416637.18   | 3746292.53  | 7.16902  |
| 416649.99   | 3746292.27  | 6.88595  | 416655.48   | 3746286.52  | 6.65146  |
| 416669.34   | 3746284.43  | 6.34441  | 416672.73   | 3746287.83  | 6.34616  |
| 416686.33   | 3746289.13  | 6.12331  | 416691.03   | 3746287.83  | 6.01875  |
| 416703.58   | 3746287.83  | 5.80812  | 416709.07   | 3746290.18  | 5.75578  |
| 416725.01   | 3746283.65  | 5.41327  | 416718.22   | 3746289.66  | 5.60263  |
| 416727.89   | 3746288.09  | 5.43306  | 416740.17   | 3746287.57  | 5.24824  |
| 416745.93   | 3746284.43  | 5.12811  | 416761.09   | 3746284.43  | 4.92800  |
| 416764.75   | 3746287.04  | 4.91133  | 416777.29   | 3746286.52  | 4.74899  |
| 416782.78   | 3746288.09  | 4.69923  | 416572.62   | 3746354.48  | 11.33206 |
| 416583.60   | 3746355.01  | 10.84491 | 416576.54   | 3746367.55  | 11.72696 |
| 416582.81   | 3746368.86  | 11.46392 | 416586.21   | 3746371.48  | 11.40267 |
| 416587.26   | 3746353.70  | 10.62933 | 416600.07   | 3746355.53  | 10.15646 |
| 416605.03   | 3746368.08  | 10.39274 | 416612.61   | 3746375.66  | 10.31671 |
| 416608.95   | 3746356.58  | 9.83631  | 416621.76   | 3746357.62  | 9.38248  |
| 416622.28   | 3746371.74  | 9.78862  | 416625.68   | 3746370.95  | 9.63026  |
| 416640.32   | 3746372.26  | 9.11407  | 416625.94   | 3746355.27  | 9.16173  |
| 416635.62   | 3746355.53  | 8.83557  | 416641.89   | 3746373.31  | 9.08396  |
| 416654.17   | 3746374.35  | 8.67946  | 416643.20   | 3746360.50  | 8.71329  |
| 416652.61   | 3746360.50  | 8.40902  | 416656.79   | 3746375.40  | 8.61475  |
| 416663.59   | 3746375.40  | 8.39126  | 416658.10   | 3746356.31  | 8.14354  |
| 416668.29   | 3746357.36  | 7.86987  | 416672.21   | 3746353.18  | 7.67411  |
| 416676.92   | 3746353.18  | 7.54765  | 416731.81   | 3746458.47  | 7.21616  |
| 416731.03   | 3746466.83  | 7.25485  | 416742.01   | 3746473.63  | 6.95736  |
| 416731.03   | 3746411.68  | 6.96467  | 416731.03   | 3746425.01  | 7.07199  |
| 416681.62   | 3746375.61  | 7.84278  | 416698.09   | 3746375.87  | 7.38826  |
| 416703.58   | 3746376.65  | 7.25589  | 416703.58   | 3746357.83  | 6.96206  |
| 416714.56   | 3746373.51  | 6.93558  | 416723.97   | 3746372.99  | 6.70722  |
| 416749.85   | 3746377.17  | 6.19574  | 416759.00   | 3746375.34  | 5.99496  |
| 416774.16   | 3746375.34  | 5.71160  | 416758.21   | 3746413.77  | 6.33612  |
| 416756.65   | 3746428.41  | 6.46013  | 416751.16   | 3746474.68  | 6.71954  |
| 416781.48   | 3746473.63  | 6.01716  | 416756.38   | 3746455.59  | 6.56931  |
| 416773.90   | 3746452.98  | 6.16193  | 416140.28   | 3746195.97  | 7.86288  |
| 416158.30   | 3746194.91  | 8.13205  | 416172.61   | 3746195.44  | 8.38839  |
| 416190.09   | 3746196.50  | 8.70857  | 416220.03   | 3746195.97  | 9.10503  |
| 416239.64   | 3746195.17  | 9.28962  | 416250.77   | 3746195.17  | 9.39433  |
| 416267.19   | 3746194.91  | 9.50301  | 416086.50   | 3746243.39  | 8.36072  |
| 416067.16   | 3746248.16  | 8.03032  | 416057.36   | 3746252.67  | 7.92372  |
| 416049.67   | 3746254.52  | 7.78730  | 416043.58   | 3746258.23  | 7.74282  |

416038.28 3746258.76 7.62742 416032.45 3746255.32 7.39670  
\*\*\* AERMOD - VERSION 19191 \*\*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23  
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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:  
VOL3 \*\*\*  
INCLUDING SOURCE(S): VOL3 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC    | X-COORD (M) | Y-COORD (M) | CONC    |
|-------------|-------------|---------|-------------|-------------|---------|
| 416026.09   | 3746256.91  | 7.29055 | 416013.38   | 3746259.03  | 7.05596 |
| 416008.87   | 3746260.88  | 6.99980 | 416004.90   | 3746261.94  | 6.93732 |
| 415999.33   | 3746267.24  | 6.93531 | 415984.76   | 3746268.03  | 6.64162 |
| 415970.45   | 3746270.42  | 6.39995 | 415958.53   | 3746270.68  | 6.17543 |
| 415946.61   | 3746271.21  | 5.96643 | 415936.81   | 3746273.07  | 5.82487 |
| 415924.09   | 3746272.80  | 5.60684 | 415913.49   | 3746272.01  | 5.42624 |
| 415899.45   | 3746273.33  | 5.23152 | 415883.29   | 3746274.92  | 5.02029 |
| 415892.30   | 3746272.01  | 5.11073 | 415864.21   | 3746276.25  | 4.78009 |
| 415856.79   | 3746275.98  | 4.68270 | 415843.81   | 3746275.19  | 4.51627 |
| 415834.27   | 3746274.66  | 4.40017 | 415821.55   | 3746275.72  | 4.26842 |
| 415809.63   | 3746274.39  | 4.13015 | 415797.44   | 3746276.78  | 4.02634 |
| 415787.11   | 3746276.25  | 3.92122 |             |             |         |

\*\*\* AERMOD - VERSION 19191 \*\*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* 20:02:04  
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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:  
VOL4 \*\*\*  
INCLUDING SOURCE(S): VOL4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC     | X-COORD (M) | Y-COORD (M) | CONC     |
|-------------|-------------|----------|-------------|-------------|----------|
| 416018.79   | 3746204.83  | 5.54210  | 416068.79   | 3746204.83  | 6.32526  |
| 416118.79   | 3746204.83  | 7.20947  | 416168.79   | 3746204.83  | 8.15158  |
| 416218.79   | 3746204.83  | 9.05783  | 416268.79   | 3746204.83  | 9.78095  |
| 416318.79   | 3746204.83  | 10.15398 | 416368.79   | 3746204.83  | 10.07233 |
| 416418.79   | 3746204.83  | 9.56513  | 416468.79   | 3746204.83  | 8.77092  |
| 416518.79   | 3746204.83  | 7.85603  | 416018.79   | 3746254.83  | 6.45357  |
| 416068.79   | 3746254.83  | 7.53269  | 416118.79   | 3746254.83  | 8.82995  |
| 416168.79   | 3746254.83  | 10.31944 | 416218.79   | 3746254.83  | 11.87124 |
| 416268.79   | 3746254.83  | 13.20220 | 416318.79   | 3746254.83  | 13.92179 |
| 416368.79   | 3746254.83  | 13.75475 | 416418.79   | 3746254.83  | 12.78032 |
| 416468.79   | 3746254.83  | 11.35377 | 416518.79   | 3746254.83  | 9.84108  |

|           |            |            |           |            |           |
|-----------|------------|------------|-----------|------------|-----------|
| 416018.79 | 3746304.83 | 7.56513    | 416068.79 | 3746304.83 | 9.05542   |
| 416118.79 | 3746304.83 | 10.97360   | 416168.79 | 3746304.83 | 13.39067  |
| 416218.79 | 3746304.83 | 16.21383   | 416268.79 | 3746304.83 | 18.93406  |
| 416318.79 | 3746304.83 | 20.53227   | 416368.79 | 3746304.83 | 20.13490  |
| 416418.79 | 3746304.83 | 18.00954   | 416468.79 | 3746304.83 | 15.22745  |
| 416518.79 | 3746304.83 | 12.62063   | 416018.79 | 3746354.83 | 8.90241   |
| 416068.79 | 3746354.83 | 10.97693   | 416118.79 | 3746354.83 | 13.83689  |
| 416168.79 | 3746354.83 | 17.83198   | 416218.79 | 3746354.83 | 23.26823  |
| 416268.79 | 3746354.83 | 29.61810   | 416318.79 | 3746354.83 | 34.00663  |
| 416368.79 | 3746354.83 | 32.81015   | 416418.79 | 3746354.83 | 27.26683  |
| 416468.79 | 3746354.83 | 21.31412   | 416518.79 | 3746354.83 | 16.61326  |
| 416018.79 | 3746404.83 | 10.37222   | 416068.79 | 3746404.83 | 13.25743  |
| 416118.79 | 3746404.83 | 17.55936   | 416168.79 | 3746404.83 | 24.29556  |
| 416218.79 | 3746404.83 | 35.29472   | 416268.79 | 3746404.83 | 52.62930  |
| 416318.79 | 3746404.83 | 69.65256   | 416368.79 | 3746404.83 | 64.21678  |
| 416418.79 | 3746404.83 | 45.49681   | 416468.79 | 3746404.83 | 31.21561  |
| 416518.79 | 3746404.83 | 22.16305   | 416018.79 | 3746454.83 | 11.60618  |
| 416068.79 | 3746454.83 | 15.35797   | 416118.79 | 3746454.83 | 21.45131  |
| 416168.79 | 3746454.83 | 32.37984   | 416218.79 | 3746454.83 | 54.94843  |
| 416268.79 | 3746454.83 | 110.83316  | 416318.79 | 3746454.83 | 236.15514 |
| 416368.79 | 3746454.83 | 178.91999  | 416418.79 | 3746454.83 | 83.10434  |
| 416468.79 | 3746454.83 | 44.92941   | 416518.79 | 3746454.83 | 28.01073  |
| 416018.79 | 3746504.83 | 12.05071   | 416068.79 | 3746504.83 | 16.18487  |
| 416118.79 | 3746504.83 | 23.17350   | 416168.79 | 3746504.83 | 36.63586  |
| 416218.79 | 3746504.83 | 68.94416   | 416268.79 | 3746504.83 | 191.54002 |
| 416318.79 | 3746504.83 | 2773.94042 | 416368.79 | 3746504.83 | 546.79814 |
| 416418.79 | 3746504.83 | 116.14613  | 416468.79 | 3746504.83 | 51.90457  |
| 416518.79 | 3746504.83 | 30.11572   | 416018.79 | 3746554.83 | 11.47949  |
| 416068.79 | 3746554.83 | 15.20783   | 416118.79 | 3746554.83 | 21.29220  |

\*\*\* AERMOD - VERSION 19191 \*\*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL4 \*\*\*

INCLUDING SOURCE(S): VOL4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC      | X-COORD (M) | Y-COORD (M) | CONC      |
|-------------|-------------|-----------|-------------|-------------|-----------|
| 416168.79   | 3746554.83  | 32.30452  | 416218.79   | 3746554.83  | 55.51472  |
| 416268.79   | 3746554.83  | 116.79141 | 416318.79   | 3746554.83  | 297.99753 |
| 416368.79   | 3746554.83  | 227.55012 | 416418.79   | 3746554.83  | 89.46646  |
| 416468.79   | 3746554.83  | 44.88923  | 416518.79   | 3746554.83  | 27.18042  |
| 416018.79   | 3746604.83  | 10.27230  | 416068.79   | 3746604.83  | 13.21977  |
| 416118.79   | 3746604.83  | 17.71581  | 416168.79   | 3746604.83  | 25.03529  |
| 416218.79   | 3746604.83  | 37.88878  | 416268.79   | 3746604.83  | 61.56084  |
| 416318.79   | 3746604.83  | 94.65884  | 416368.79   | 3746604.83  | 92.34626  |
| 416418.79   | 3746604.83  | 58.80476  | 416468.79   | 3746604.83  | 35.37762  |
| 416518.79   | 3746604.83  | 22.96161  | 416018.79   | 3746654.83  | 8.96641   |
| 416068.79   | 3746654.83  | 11.21979  | 416118.79   | 3746654.83  | 14.45577  |

|           |            |            |           |            |            |
|-----------|------------|------------|-----------|------------|------------|
| 416168.79 | 3746654.83 | 19.26100   | 416218.79 | 3746654.83 | 26.50744   |
| 416268.79 | 3746654.83 | 36.83138   | 416318.79 | 3746654.83 | 47.31900   |
| 416368.79 | 3746654.83 | 48.38667   | 416418.79 | 3746654.83 | 38.60783   |
| 416468.79 | 3746654.83 | 27.40880   | 416518.79 | 3746654.83 | 19.29952   |
| 416018.79 | 3746704.83 | 7.81586    | 416068.79 | 3746704.83 | 9.54495    |
| 416118.79 | 3746704.83 | 11.88451   | 416168.79 | 3746704.83 | 15.06382   |
| 416218.79 | 3746704.83 | 19.29161   | 416268.79 | 3746704.83 | 24.39705   |
| 416318.79 | 3746704.83 | 28.85187   | 416368.79 | 3746704.83 | 29.78326   |
| 416418.79 | 3746704.83 | 26.38310   | 416468.79 | 3746704.83 | 21.05425   |
| 416518.79 | 3746704.83 | 16.09934   | 416302.62 | 3746499.91 | 722.71315  |
| 416312.84 | 3746498.80 | 1411.76223 | 416322.84 | 3746499.46 | 3777.72660 |
| 416332.84 | 3746498.80 | 7401.58893 | 416342.39 | 3746499.24 | 3892.13622 |
| 416190.87 | 3746435.25 | 35.42903   | 416189.75 | 3746447.47 | 37.99976   |
| 416301.03 | 3746253.85 | 13.66761   | 416335.27 | 3746290.44 | 18.26917   |
| 416331.87 | 3746279.46 | 16.73852   | 416361.93 | 3746288.35 | 17.72148   |
| 416370.04 | 3746286.52 | 17.31330   | 416384.15 | 3746286.52 | 16.96589   |
| 416388.59 | 3746285.74 | 16.73845   | 416400.10 | 3746294.10 | 17.42697   |
| 416406.37 | 3746294.62 | 17.24320   | 416409.51 | 3746291.23 | 16.68911   |
| 416422.31 | 3746291.23 | 16.15198   | 416428.85 | 3746288.87 | 15.60739   |
| 416444.80 | 3746287.83 | 14.79994   | 416448.19 | 3746291.75 | 15.02446   |
| 416459.69 | 3746291.75 | 14.47958   | 416466.23 | 3746288.87 | 13.92330   |
| 416481.65 | 3746287.04 | 13.08580   | 416485.31 | 3746291.23 | 13.23647   |
| 416499.95 | 3746290.96 | 12.55778   | 416505.44 | 3746288.35 | 12.14789   |
| 416520.34 | 3746287.31 | 11.47152   | 416525.57 | 3746291.23 | 11.48538   |
| 416540.99 | 3746294.62 | 11.05127   | 416545.17 | 3746289.92 | 10.65016   |
| 416557.98 | 3746293.58 | 10.35282   | 416562.95 | 3746288.35 | 9.94065    |
| 416578.63 | 3746286.26 | 9.33880    | 416580.72 | 3746290.18 | 9.42614    |
| 416595.36 | 3746289.13 | 8.93186    | 416600.85 | 3746291.49 | 8.85146    |
| 416614.97 | 3746286.52 | 8.28708    | 416619.15 | 3746289.66 | 8.27195    |

\*\*\* AERMOD - VERSION 19191 \*\*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23  
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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL4 \*\*\*

INCLUDING SOURCE(S): VOL4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC     | X-COORD (M) | Y-COORD (M) | CONC     |
|-------------|-------------|----------|-------------|-------------|----------|
| 416629.34   | 3746289.40  | 7.99489  | 416637.18   | 3746292.53  | 7.88353  |
| 416649.99   | 3746292.27  | 7.55996  | 416655.48   | 3746286.52  | 7.28661  |
| 416669.34   | 3746284.43  | 6.93561  | 416672.73   | 3746287.83  | 6.94071  |
| 416686.33   | 3746289.13  | 6.68876  | 416691.03   | 3746287.83  | 6.56905  |
| 416703.58   | 3746287.83  | 6.33039  | 416709.07   | 3746290.18  | 6.27293  |
| 416725.01   | 3746283.65  | 5.88127  | 416718.22   | 3746289.66  | 6.09925  |
| 416727.89   | 3746288.09  | 5.90656  | 416740.17   | 3746287.57  | 5.69777  |
| 416745.93   | 3746284.43  | 5.56059  | 416761.09   | 3746284.43  | 5.33568  |
| 416764.75   | 3746287.04  | 5.31841  | 416777.29   | 3746286.52  | 5.13593  |
| 416782.78   | 3746288.09  | 5.08096  | 416572.62   | 3746354.48  | 12.90724 |
| 416583.60   | 3746355.01  | 12.32539 | 416576.54   | 3746367.55  | 13.44206 |

|           |            |          |           |            |          |
|-----------|------------|----------|-----------|------------|----------|
| 416582.81 | 3746368.86 | 13.12873 | 416586.21 | 3746371.48 | 13.06583 |
| 416587.26 | 3746353.70 | 12.06251 | 416600.07 | 3746355.53 | 11.50377 |
| 416605.03 | 3746368.08 | 11.82974 | 416612.61 | 3746375.66 | 11.76395 |
| 416608.95 | 3746356.58 | 11.12493 | 416621.76 | 3746357.62 | 10.58705 |
| 416622.28 | 3746371.74 | 11.11371 | 416625.68 | 3746370.95 | 10.92089 |
| 416640.32 | 3746372.26 | 10.30495 | 416625.94 | 3746355.27 | 10.31840 |
| 416635.62 | 3746355.53 | 9.93219  | 416641.89 | 3746373.31 | 10.27149 |
| 416654.17 | 3746374.35 | 9.78975  | 416643.20 | 3746360.50 | 9.79873  |
| 416652.61 | 3746360.50 | 9.43798  | 416656.79 | 3746375.40 | 9.71472  |
| 416663.59 | 3746375.40 | 9.44784  | 416658.10 | 3746356.31 | 9.11575  |
| 416668.29 | 3746357.36 | 8.79522  | 416672.21 | 3746353.18 | 8.55783  |
| 416676.92 | 3746353.18 | 8.40953  | 416731.81 | 3746458.47 | 8.14379  |
| 416731.03 | 3746466.83 | 8.19622  | 416742.01 | 3746473.63 | 7.83953  |
| 416731.03 | 3746411.68 | 7.80013  | 416731.03 | 3746425.01 | 7.94192  |
| 416681.62 | 3746375.61 | 8.79551  | 416698.09 | 3746375.87 | 8.25755  |
| 416703.58 | 3746376.65 | 8.10231  | 416703.58 | 3746357.83 | 7.73115  |
| 416714.56 | 3746373.51 | 7.72077  | 416723.97 | 3746372.99 | 7.45211  |
| 416749.85 | 3746377.17 | 6.85835  | 416759.00 | 3746375.34 | 6.62270  |
| 416774.16 | 3746375.34 | 6.29361  | 416758.21 | 3746413.77 | 7.05584  |
| 416756.65 | 3746428.41 | 7.21431  | 416751.16 | 3746474.68 | 7.55294  |
| 416781.48 | 3746473.63 | 6.71140  | 416756.38 | 3746455.59 | 7.36265  |
| 416773.90 | 3746452.98 | 6.87489  | 416140.28 | 3746195.97 | 7.33862  |
| 416158.30 | 3746194.91 | 7.61941  | 416172.61 | 3746195.44 | 7.88467  |
| 416190.09 | 3746196.50 | 8.22226  | 416220.03 | 3746195.97 | 8.68483  |
| 416239.64 | 3746195.17 | 8.93204  | 416250.77 | 3746195.17 | 9.07631  |
| 416267.19 | 3746194.91 | 9.25152  | 416086.50 | 3746243.39 | 7.63145  |
| 416067.16 | 3746248.16 | 7.31840  | 416057.36 | 3746252.67 | 7.21294  |
| 416049.67 | 3746254.52 | 7.08740  | 416043.58 | 3746258.23 | 7.04152  |
| 416038.28 | 3746258.76 | 6.93817  | 416032.45 | 3746255.32 | 6.73816  |

\*\*\* AERMOD - VERSION 19191 \*\*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*

\*\*\* 20:02:04

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL4 \*\*\*

INCLUDING SOURCE(S): VOL4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC    | X-COORD (M) | Y-COORD (M) | CONC    |
|-------------|-------------|---------|-------------|-------------|---------|
| 416026.09   | 3746256.91  | 6.64183 | 416013.38   | 3746259.03  | 6.43169 |
| 416008.87   | 3746260.88  | 6.38019 | 416004.90   | 3746261.94  | 6.32406 |
| 415999.33   | 3746267.24  | 6.31751 | 415984.76   | 3746268.03  | 6.05881 |
| 415970.45   | 3746270.42  | 5.84496 | 415958.53   | 3746270.68  | 5.64759 |
| 415946.61   | 3746271.21  | 5.46361 | 415936.81   | 3746273.07  | 5.33827 |
| 415924.09   | 3746272.80  | 5.14646 | 415913.49   | 3746272.01  | 4.98753 |
| 415899.45   | 3746273.33  | 4.81518 | 415883.29   | 3746274.92  | 4.62796 |
| 415892.30   | 3746272.01  | 4.70881 | 415864.21   | 3746276.25  | 4.41483 |
| 415856.79   | 3746275.98  | 4.32848 | 415843.81   | 3746275.19  | 4.18076 |
| 415834.27   | 3746274.66  | 4.07752 | 415821.55   | 3746275.72  | 3.95987 |
| 415809.63   | 3746274.39  | 3.83666 | 415797.44   | 3746276.78  | 3.74342 |

415787.11 3746276.25 3.64940  
\*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* 20:02:04

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL5 \*\*\*

INCLUDING SOURCE(S): VOL5 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC       | X-COORD (M) | Y-COORD (M) | CONC      |
|-------------|-------------|------------|-------------|-------------|-----------|
| 416018.79   | 3746204.83  | 5.39883    | 416068.79   | 3746204.83  | 6.15987   |
| 416118.79   | 3746204.83  | 7.02598    | 416168.79   | 3746204.83  | 7.96220   |
| 416218.79   | 3746204.83  | 8.88587    | 416268.79   | 3746204.83  | 9.65925   |
| 416318.79   | 3746204.83  | 10.11410   | 416368.79   | 3746204.83  | 10.12567  |
| 416418.79   | 3746204.83  | 9.69489    | 416468.79   | 3746204.83  | 8.94451   |
| 416518.79   | 3746204.83  | 8.04156    | 416018.79   | 3746254.83  | 6.26244   |
| 416068.79   | 3746254.83  | 7.29970    | 416118.79   | 3746254.83  | 8.55321   |
| 416168.79   | 3746254.83  | 10.01038   | 416218.79   | 3746254.83  | 11.56719  |
| 416268.79   | 3746254.83  | 12.97213   | 416318.79   | 3746254.83  | 13.84421  |
| 416368.79   | 3746254.83  | 13.86086   | 416418.79   | 3746254.83  | 13.02448  |
| 416468.79   | 3746254.83  | 11.65605   | 416518.79   | 3746254.83  | 10.13750  |
| 416018.79   | 3746304.83  | 7.30957    | 416068.79   | 3746304.83  | 8.72634   |
| 416118.79   | 3746304.83  | 10.55122   | 416168.79   | 3746304.83  | 12.86762  |
| 416218.79   | 3746304.83  | 15.63298   | 416268.79   | 3746304.83  | 18.44211  |
| 416318.79   | 3746304.83  | 20.35647   | 416368.79   | 3746304.83  | 20.38000  |
| 416418.79   | 3746304.83  | 18.52322   | 416468.79   | 3746304.83  | 15.78783  |
| 416518.79   | 3746304.83  | 13.10810   | 416018.79   | 3746354.83  | 8.55803   |
| 416068.79   | 3746354.83  | 10.50868   | 416118.79   | 3746354.83  | 13.18650  |
| 416168.79   | 3746354.83  | 16.92361   | 416218.79   | 3746354.83  | 22.06669  |
| 416268.79   | 3746354.83  | 28.37153   | 416318.79   | 3746354.83  | 33.49990  |
| 416368.79   | 3746354.83  | 33.52308   | 416418.79   | 3746354.83  | 28.51357  |
| 416468.79   | 3746354.83  | 22.42042   | 416518.79   | 3746354.83  | 17.44488  |
| 416018.79   | 3746404.83  | 9.91136    | 416068.79   | 3746404.83  | 12.58956  |
| 416118.79   | 3746404.83  | 16.54611   | 416168.79   | 3746404.83  | 22.68017  |
| 416218.79   | 3746404.83  | 32.63464   | 416268.79   | 3746404.83  | 48.68043  |
| 416318.79   | 3746404.83  | 67.40405   | 416368.79   | 3746404.83  | 67.29178  |
| 416418.79   | 3746404.83  | 49.09122   | 416468.79   | 3746404.83  | 33.58938  |
| 416518.79   | 3746404.83  | 23.65501   | 416018.79   | 3746454.83  | 11.03001  |
| 416068.79   | 3746454.83  | 14.46675   | 416118.79   | 3746454.83  | 19.95892  |
| 416168.79   | 3746454.83  | 29.58843   | 416218.79   | 3746454.83  | 48.84357  |
| 416268.79   | 3746454.83  | 94.83519   | 416318.79   | 3746454.83  | 210.08701 |
| 416368.79   | 3746454.83  | 206.88140  | 416418.79   | 3746454.83  | 95.99345  |
| 416468.79   | 3746454.83  | 50.14681   | 416518.79   | 3746454.83  | 30.51393  |
| 416018.79   | 3746504.83  | 11.42673   | 416068.79   | 3746504.83  | 15.19150  |
| 416118.79   | 3746504.83  | 21.42935   | 416168.79   | 3746504.83  | 33.07691  |
| 416218.79   | 3746504.83  | 59.52592   | 416268.79   | 3746504.83  | 147.79897 |
| 416318.79   | 3746504.83  | 1114.78354 | 416368.79   | 3746504.83  | 974.79363 |
| 416418.79   | 3746504.83  | 144.56994  | 416468.79   | 3746504.83  | 59.31774  |
| 416518.79   | 3746504.83  | 33.14207   | 416018.79   | 3746554.83  | 10.90804  |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL5 \*\*\*

INCLUDING SOURCE(S): VOL5 ,

| *** DISCRETE CARTESIAN RECEPTOR POINTS *** |             |            |             |             |            |
|--------------------------------------------|-------------|------------|-------------|-------------|------------|
| ** CONC OF OTHER IN MICROGRAMS/M**3        |             |            |             |             |            |
| X-COORD (M)                                | Y-COORD (M) | CONC       | X-COORD (M) | Y-COORD (M) | CONC       |
| 416168.79                                  | 3746554.83  | 29.47883   | 416218.79   | 3746554.83  | 49.16788   |
| 416268.79                                  | 3746554.83  | 98.54900   | 416318.79   | 3746554.83  | 252.08088  |
| 416368.79                                  | 3746554.83  | 272.61917  | 416418.79   | 3746554.83  | 105.94941  |
| 416468.79                                  | 3746554.83  | 50.60058   | 416518.79   | 3746554.83  | 29.72509   |
| 416018.79                                  | 3746604.83  | 9.80612    | 416068.79   | 3746604.83  | 12.53291   |
| 416118.79                                  | 3746604.83  | 16.64524   | 416168.79   | 3746604.83  | 23.24614   |
| 416218.79                                  | 3746604.83  | 34.66199   | 416268.79   | 3746604.83  | 55.66347   |
| 416318.79                                  | 3746604.83  | 88.82030   | 416368.79   | 3746604.83  | 97.27045   |
| 416418.79                                  | 3746604.83  | 65.21650   | 416468.79   | 3746604.83  | 38.97606   |
| 416518.79                                  | 3746604.83  | 24.86218   | 416018.79   | 3746654.83  | 8.59953    |
| 416068.79                                  | 3746654.83  | 10.70453   | 416118.79   | 3746654.83  | 13.70597   |
| 416168.79                                  | 3746654.83  | 18.13607   | 416218.79   | 3746654.83  | 24.81647   |
| 416268.79                                  | 3746654.83  | 34.55617   | 416318.79   | 3746654.83  | 45.63081   |
| 416368.79                                  | 3746654.83  | 49.26934   | 416418.79   | 3746654.83  | 40.96129   |
| 416468.79                                  | 3746654.83  | 29.44371   | 416518.79   | 3746654.83  | 20.65628   |
| 416018.79                                  | 3746704.83  | 7.52648    | 416068.79   | 3746704.83  | 9.15687    |
| 416118.79                                  | 3746704.83  | 11.35727   | 416168.79   | 3746704.83  | 14.34909   |
| 416218.79                                  | 3746704.83  | 18.35883   | 416268.79   | 3746704.83  | 23.35008   |
| 416318.79                                  | 3746704.83  | 28.15180   | 416368.79   | 3746704.83  | 29.97810   |
| 416418.79                                  | 3746704.83  | 27.31441   | 416468.79   | 3746704.83  | 22.14099   |
| 416518.79                                  | 3746704.83  | 17.00401   | 416302.62   | 3746499.91  | 436.21738  |
| 416312.84                                  | 3746498.80  | 721.78264  | 416322.84   | 3746499.46  | 1436.82013 |
| 416332.84                                  | 3746498.80  | 3601.49211 | 416342.39   | 3746499.24  | 7700.89928 |
| 416190.87                                  | 3746435.25  | 32.39796   | 416189.75   | 3746447.47  | 34.51843   |
| 416301.03                                  | 3746253.85  | 13.53044   | 416335.27   | 3746290.44  | 18.24135   |
| 416331.87                                  | 3746279.46  | 16.69621   | 416361.93   | 3746288.35  | 17.86337   |
| 416370.04                                  | 3746286.52  | 17.49681   | 416384.15   | 3746286.52  | 17.22230   |
| 416388.59                                  | 3746285.74  | 17.01204   | 416400.10   | 3746294.10  | 17.79498   |
| 416406.37                                  | 3746294.62  | 17.63938   | 416409.51   | 3746291.23  | 17.07511   |
| 416422.31                                  | 3746291.23  | 16.57532   | 416428.85   | 3746288.87  | 16.03029   |
| 416444.80                                  | 3746287.83  | 15.24045   | 416448.19   | 3746291.75  | 15.49281   |
| 416459.69                                  | 3746291.75  | 14.95361   | 416466.23   | 3746288.87  | 14.38054   |
| 416481.65                                  | 3746287.04  | 13.52845   | 416485.31   | 3746291.23  | 13.69907   |
| 416499.95                                  | 3746290.96  | 13.00502   | 416505.44   | 3746288.35  | 12.57663   |
| 416520.34                                  | 3746287.31  | 11.87771   | 416525.57   | 3746291.23  | 11.90029   |
| 416540.99                                  | 3746294.62  | 11.45558   | 416545.17   | 3746289.92  | 11.03115   |
| 416557.98                                  | 3746293.58  | 10.72624   | 416562.95   | 3746288.35  | 10.29044   |
| 416578.63                                  | 3746286.26  | 9.66079    | 416580.72   | 3746290.18  | 9.75535    |
| 416595.36                                  | 3746289.13  | 9.23811    | 416600.85   | 3746291.49  | 9.15568    |

416614.97 3746286.52 8.56268 416619.15 3746289.66 8.54858  
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\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* 20:02:04

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL5 \*\*\*

INCLUDING SOURCE(S): VOL5 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC     | X-COORD (M) | Y-COORD (M) | CONC     |
|-------------|-------------|----------|-------------|-------------|----------|
| 416629.34   | 3746289.40  | 8.25877  | 416637.18   | 3746292.53  | 8.14380  |
| 416649.99   | 3746292.27  | 7.80529  | 416655.48   | 3746286.52  | 7.51732  |
| 416669.34   | 3746284.43  | 7.15007  | 416672.73   | 3746287.83  | 7.15652  |
| 416686.33   | 3746289.13  | 6.89388  | 416691.03   | 3746287.83  | 6.76853  |
| 416703.58   | 3746287.83  | 6.51952  | 416709.07   | 3746290.18  | 6.46022  |
| 416725.01   | 3746283.65  | 6.05030  | 416718.22   | 3746289.66  | 6.27895  |
| 416727.89   | 3746288.09  | 6.07770  | 416740.17   | 3746287.57  | 5.86007  |
| 416745.93   | 3746284.43  | 5.71654  | 416761.09   | 3746284.43  | 5.48252  |
| 416764.75   | 3746287.04  | 5.46506  | 416777.29   | 3746286.52  | 5.27518  |
| 416782.78   | 3746288.09  | 5.21831  | 416572.62   | 3746354.48  | 13.49989 |
| 416583.60   | 3746355.01  | 12.88191 | 416576.54   | 3746367.55  | 14.09259 |
| 416582.81   | 3746368.86  | 13.76014 | 416586.21   | 3746371.48  | 13.69738 |
| 416587.26   | 3746353.70  | 12.60060 | 416600.07   | 3746355.53  | 12.00931 |
| 416605.03   | 3746368.08  | 12.37247 | 416612.61   | 3746375.66  | 12.31231 |
| 416608.95   | 3746356.58  | 11.60813 | 416621.76   | 3746357.62  | 11.03815 |
| 416622.28   | 3746371.74  | 11.61371 | 416625.68   | 3746370.95  | 11.40737 |
| 416640.32   | 3746372.26  | 10.75293 | 416625.94   | 3746355.27  | 10.75076 |
| 416635.62   | 3746355.53  | 10.34158 | 416641.89   | 3746373.31  | 10.71834 |
| 416654.17   | 3746374.35  | 10.20678 | 416643.20   | 3746360.50  | 10.20445 |
| 416652.61   | 3746360.50  | 9.82201  | 416656.79   | 3746375.40  | 10.12787 |
| 416663.59   | 3746375.40  | 9.84418  | 416658.10   | 3746356.31  | 9.47761  |
| 416668.29   | 3746357.36  | 9.13926  | 416672.21   | 3746353.18  | 8.88563  |
| 416676.92   | 3746353.18  | 8.72900  | 416731.81   | 3746458.47  | 8.49558  |
| 416731.03   | 3746466.83  | 8.55377  | 416742.01   | 3746473.63  | 8.17374  |
| 416731.03   | 3746411.68  | 8.11346  | 416731.03   | 3746425.01  | 8.26943  |
| 416681.62   | 3746375.61  | 9.15173  | 416698.09   | 3746375.87  | 8.58162  |
| 416703.58   | 3746376.65  | 8.41765  | 416703.58   | 3746357.83  | 8.01562  |
| 416714.56   | 3746373.51  | 8.01239  | 416723.97   | 3746372.99  | 7.72827  |
| 416749.85   | 3746377.17  | 7.10329  | 416759.00   | 3746375.34  | 6.85429  |
| 416774.16   | 3746375.34  | 6.50782  | 416758.21   | 3746413.77  | 7.32430  |
| 416756.65   | 3746428.41  | 7.49671  | 416751.16   | 3746474.68  | 7.86784  |
| 416781.48   | 3746473.63  | 6.97155  | 416756.38   | 3746455.59  | 7.66127  |
| 416773.90   | 3746452.98  | 7.14195  | 416140.28   | 3746195.97  | 7.16425  |
| 416158.30   | 3746194.91  | 7.44598  | 416172.61   | 3746195.44  | 7.71165  |
| 416190.09   | 3746196.50  | 8.05144  | 416220.03   | 3746195.97  | 8.52904  |
| 416239.64   | 3746195.17  | 8.79244  | 416250.77   | 3746195.17  | 8.94725  |
| 416267.19   | 3746194.91  | 9.14106  | 416086.50   | 3746243.39  | 7.40280  |
| 416067.16   | 3746248.16  | 7.09717  | 416057.36   | 3746252.67  | 6.99310  |
| 416049.67   | 3746254.52  | 6.87146  | 416043.58   | 3746258.23  | 6.82574  |

416038.28 3746258.76 6.72630 416032.45 3746255.32 6.53555  
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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:  
VOL5 \*\*\*  
INCLUDING SOURCE(S): VOL5 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC    | X-COORD (M) | Y-COORD (M) | CONC    |
|-------------|-------------|---------|-------------|-------------|---------|
| 416026.09   | 3746256.91  | 6.44251 | 416013.38   | 3746259.03  | 6.24022 |
| 416008.87   | 3746260.88  | 6.19032 | 416004.90   | 3746261.94  | 6.13622 |
| 415999.33   | 3746267.24  | 6.12867 | 415984.76   | 3746268.03  | 5.88067 |
| 415970.45   | 3746270.42  | 5.67536 | 415958.53   | 3746270.68  | 5.48621 |
| 415946.61   | 3746271.21  | 5.30978 | 415936.81   | 3746273.07  | 5.18937 |
| 415924.09   | 3746272.80  | 5.00543 | 415913.49   | 3746272.01  | 4.85300 |
| 415899.45   | 3746273.33  | 4.68739 | 415883.29   | 3746274.92  | 4.50740 |
| 415892.30   | 3746272.01  | 4.58533 | 415864.21   | 3746276.25  | 4.30242 |
| 415856.79   | 3746275.98  | 4.21939 | 415843.81   | 3746275.19  | 4.07729 |
| 415834.27   | 3746274.66  | 3.97793 | 415821.55   | 3746275.72  | 3.86454 |
| 415809.63   | 3746274.39  | 3.74587 | 415797.44   | 3746276.78  | 3.65584 |
| 415787.11   | 3746276.25  | 3.56517 |             |             |         |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:  
VOL6 \*\*\*  
INCLUDING SOURCE(S): VOL6 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC     | X-COORD (M) | Y-COORD (M) | CONC     |
|-------------|-------------|----------|-------------|-------------|----------|
| 416018.79   | 3746204.83  | 7.47352  | 416068.79   | 3746204.83  | 8.81736  |
| 416118.79   | 3746204.83  | 10.37523 | 416168.79   | 3746204.83  | 12.02235 |
| 416218.79   | 3746204.83  | 13.48090 | 416268.79   | 3746204.83  | 14.32121 |
| 416318.79   | 3746204.83  | 14.20656 | 416368.79   | 3746204.83  | 13.20571 |
| 416418.79   | 3746204.83  | 11.68936 | 416468.79   | 3746204.83  | 10.07154 |
| 416518.79   | 3746204.83  | 8.59690  | 416018.79   | 3746254.83  | 8.91966  |
| 416068.79   | 3746254.83  | 10.88988 | 416118.79   | 3746254.83  | 13.41660 |
| 416168.79   | 3746254.83  | 16.42257 | 416218.79   | 3746254.83  | 19.41583 |
| 416268.79   | 3746254.83  | 21.30991 | 416318.79   | 3746254.83  | 21.02947 |
| 416368.79   | 3746254.83  | 18.78641 | 416418.79   | 3746254.83  | 15.76222 |
| 416468.79   | 3746254.83  | 12.92312 | 416518.79   | 3746254.83  | 10.60248 |

|           |            |           |           |            |           |
|-----------|------------|-----------|-----------|------------|-----------|
| 416018.79 | 3746304.83 | 10.75601  | 416068.79 | 3746304.83 | 13.60944  |
| 416118.79 | 3746304.83 | 17.71416  | 416168.79 | 3746304.83 | 23.48742  |
| 416218.79 | 3746304.83 | 30.51688  | 416268.79 | 3746304.83 | 35.82360  |
| 416318.79 | 3746304.83 | 34.93768  | 416368.79 | 3746304.83 | 28.83619  |
| 416418.79 | 3746304.83 | 22.15202  | 416468.79 | 3746304.83 | 16.98626  |
| 416518.79 | 3746304.83 | 13.34478  | 416018.79 | 3746354.83 | 13.11019  |
| 416068.79 | 3746354.83 | 17.28084  | 416118.79 | 3746354.83 | 23.91391  |
| 416168.79 | 3746354.83 | 35.20266  | 416218.79 | 3746354.83 | 54.30060  |
| 416268.79 | 3746354.83 | 75.54268  | 416318.79 | 3746354.83 | 71.15626  |
| 416368.79 | 3746354.83 | 48.98704  | 416418.79 | 3746354.83 | 32.69324  |
| 416468.79 | 3746354.83 | 23.06169  | 416518.79 | 3746354.83 | 17.12392  |
| 416018.79 | 3746404.83 | 15.55186  | 416068.79 | 3746404.83 | 21.59343  |
| 416118.79 | 3746404.83 | 32.34319  | 416168.79 | 3746404.83 | 54.56711  |
| 416218.79 | 3746404.83 | 112.54931 | 416268.79 | 3746404.83 | 275.73685 |
| 416318.79 | 3746404.83 | 220.52521 | 416368.79 | 3746404.83 | 93.14445  |
| 416418.79 | 3746404.83 | 49.06705  | 416468.79 | 3746404.83 | 30.30075  |
| 416518.79 | 3746404.83 | 20.65564  | 416018.79 | 3746454.83 | 16.36313  |
| 416068.79 | 3746454.83 | 23.27183  | 416118.79 | 3746454.83 | 36.37773  |
| 416168.79 | 3746454.83 | 67.04246  | 416218.79 | 3746454.83 | 177.46514 |
| 416268.79 | 3746454.83 | 0.00000   | 416318.79 | 3746454.83 | 701.49643 |
| 416368.79 | 3746454.83 | 127.04031 | 416418.79 | 3746454.83 | 55.16963  |
| 416468.79 | 3746454.83 | 31.62594  | 416518.79 | 3746454.83 | 20.81981  |
| 416018.79 | 3746504.83 | 14.73580  | 416068.79 | 3746504.83 | 20.32712  |
| 416118.79 | 3746504.83 | 30.21494  | 416168.79 | 3746504.83 | 50.49338  |
| 416218.79 | 3746504.83 | 102.45001 | 416268.79 | 3746504.83 | 250.29165 |
| 416318.79 | 3746504.83 | 219.94442 | 416368.79 | 3746504.83 | 89.75485  |
| 416418.79 | 3746504.83 | 44.43631  | 416468.79 | 3746504.83 | 26.85841  |
| 416518.79 | 3746504.83 | 18.25313  | 416018.79 | 3746554.83 | 12.45441  |
| 416068.79 | 3746554.83 | 16.56097  | 416118.79 | 3746554.83 | 23.23803  |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:  
 VOL6 \*\*\*  
 INCLUDING SOURCE(S): VOL6 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC     | X-COORD (M) | Y-COORD (M) | CONC     |
|-------------|-------------|----------|-------------|-------------|----------|
| 416168.79   | 3746554.83  | 34.88155 | 416218.79   | 3746554.83  | 55.77851 |
| 416268.79   | 3746554.83  | 86.51349 | 416318.79   | 3746554.83  | 89.03178 |
| 416368.79   | 3746554.83  | 58.83919 | 416418.79   | 3746554.83  | 35.07664 |
| 416468.79   | 3746554.83  | 22.45943 | 416518.79   | 3746554.83  | 15.72272 |
| 416018.79   | 3746604.83  | 10.61041 | 416068.79   | 3746604.83  | 13.64545 |
| 416118.79   | 3746604.83  | 18.12003 | 416168.79   | 3746604.83  | 24.73247 |
| 416218.79   | 3746604.83  | 34.12473 | 416268.79   | 3746604.83  | 44.63738 |
| 416318.79   | 3746604.83  | 46.96102 | 416368.79   | 3746604.83  | 38.53195 |
| 416418.79   | 3746604.83  | 27.51707 | 416468.79   | 3746604.83  | 19.09396 |
| 416518.79   | 3746604.83  | 13.78001 | 416018.79   | 3746654.83  | 9.10658  |
| 416068.79   | 3746654.83  | 11.31596 | 416118.79   | 3746654.83  | 14.27569 |

|           |            |           |           |            |           |
|-----------|------------|-----------|-----------|------------|-----------|
| 416168.79 | 3746654.83 | 18.14913  | 416218.79 | 3746654.83 | 22.98879  |
| 416268.79 | 3746654.83 | 27.67468  | 416318.79 | 3746654.83 | 29.04512  |
| 416368.79 | 3746654.83 | 26.19840  | 416418.79 | 3746654.83 | 21.21685  |
| 416468.79 | 3746654.83 | 16.14122  | 416518.79 | 3746654.83 | 12.17525  |
| 416018.79 | 3746704.83 | 7.83691   | 416068.79 | 3746704.83 | 9.43191   |
| 416118.79 | 3746704.83 | 11.41041  | 416168.79 | 3746704.83 | 13.81953  |
| 416218.79 | 3746704.83 | 16.59685  | 416268.79 | 3746704.83 | 19.04756  |
| 416318.79 | 3746704.83 | 19.86678  | 416368.79 | 3746704.83 | 18.72620  |
| 416418.79 | 3746704.83 | 16.34669  | 416468.79 | 3746704.83 | 13.45528  |
| 416518.79 | 3746704.83 | 10.71233  | 416302.62 | 3746499.91 | 317.91124 |
| 416312.84 | 3746498.80 | 281.39987 | 416322.84 | 3746499.46 | 229.10430 |
| 416332.84 | 3746498.80 | 189.14212 | 416342.39 | 3746499.24 | 154.54952 |
| 416190.87 | 3746435.25 | 93.82880  | 416189.75 | 3746447.47 | 94.95315  |
| 416301.03 | 3746253.85 | 21.21040  | 416335.27 | 3746290.44 | 28.52785  |
| 416331.87 | 3746279.46 | 25.79551  | 416361.93 | 3746288.35 | 25.48745  |
| 416370.04 | 3746286.52 | 24.27049  | 416384.15 | 3746286.52 | 22.85293  |
| 416388.59 | 3746285.74 | 22.26593  | 416400.10 | 3746294.10 | 22.52715  |
| 416406.37 | 3746294.62 | 21.92192  | 416409.51 | 3746291.23 | 21.04672  |
| 416422.31 | 3746291.23 | 19.75820  | 416428.85 | 3746288.87 | 18.82957  |
| 416444.80 | 3746287.83 | 17.30752  | 416448.19 | 3746291.75 | 17.43665  |
| 416459.69 | 3746291.75 | 16.48007  | 416466.23 | 3746288.87 | 15.70824  |
| 416481.65 | 3746287.04 | 14.46707  | 416485.31 | 3746291.23 | 14.54044  |
| 416499.95 | 3746290.96 | 13.57498  | 416505.44 | 3746288.35 | 13.07546  |
| 416520.34 | 3746287.31 | 12.19258  | 416525.57 | 3746291.23 | 12.14134  |
| 416540.99 | 3746294.62 | 11.55145  | 416545.17 | 3746289.92 | 11.12015  |
| 416557.98 | 3746293.58 | 10.72740  | 416562.95 | 3746288.35 | 10.28912  |
| 416578.63 | 3746286.26 | 9.60762   | 416580.72 | 3746290.18 | 9.68313   |
| 416595.36 | 3746289.13 | 9.13367   | 416600.85 | 3746291.49 | 9.03452   |
| 416614.97 | 3746286.52 | 8.43426   | 416619.15 | 3746289.66 | 8.40828   |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL6 \*\*\*

INCLUDING SOURCE(S): VOL6 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC     | X-COORD (M) | Y-COORD (M) | CONC     |
|-------------|-------------|----------|-------------|-------------|----------|
| 416629.34   | 3746289.40  | 8.11061  | 416637.18   | 3746292.53  | 7.98430  |
| 416649.99   | 3746292.27  | 7.64207  | 416655.48   | 3746286.52  | 7.36387  |
| 416669.34   | 3746284.43  | 6.99853  | 416672.73   | 3746287.83  | 6.99958  |
| 416686.33   | 3746289.13  | 6.73607  | 416691.03   | 3746287.83  | 6.61354  |
| 416703.58   | 3746287.83  | 6.36714  | 416709.07   | 3746290.18  | 6.30560  |
| 416725.01   | 3746283.65  | 5.90935  | 416718.22   | 3746289.66  | 6.12770  |
| 416727.89   | 3746288.09  | 5.93170  | 416740.17   | 3746287.57  | 5.71871  |
| 416745.93   | 3746284.43  | 5.58118  | 416761.09   | 3746284.43  | 5.35217  |
| 416764.75   | 3746287.04  | 5.33263  | 416777.29   | 3746286.52  | 5.14764  |
| 416782.78   | 3746288.09  | 5.09053  | 416572.62   | 3746354.48  | 12.95423 |
| 416583.60   | 3746355.01  | 12.31767 | 416576.54   | 3746367.55  | 13.27456 |

|           |            |          |           |            |          |
|-----------|------------|----------|-----------|------------|----------|
| 416582.81 | 3746368.86 | 12.91513 | 416586.21 | 3746371.48 | 12.79214 |
| 416587.26 | 3746353.70 | 12.05579 | 416600.07 | 3746355.53 | 11.43471 |
| 416605.03 | 3746368.08 | 11.57609 | 416612.61 | 3746375.66 | 11.36810 |
| 416608.95 | 3746356.58 | 11.02112 | 416621.76 | 3746357.62 | 10.44580 |
| 416622.28 | 3746371.74 | 10.77936 | 416625.68 | 3746370.95 | 10.59668 |
| 416640.32 | 3746372.26 | 9.95488  | 416625.94 | 3746355.27 | 10.19533 |
| 416635.62 | 3746355.53 | 9.79207  | 416641.89 | 3746373.31 | 9.90573  |
| 416654.17 | 3746374.35 | 9.41051  | 416643.20 | 3746360.50 | 9.59793  |
| 416652.61 | 3746360.50 | 9.22985  | 416656.79 | 3746375.40 | 9.32153  |
| 416663.59 | 3746375.40 | 9.05777  | 416658.10 | 3746356.31 | 8.94523  |
| 416668.29 | 3746357.36 | 8.60865  | 416672.21 | 3746353.18 | 8.40497  |
| 416676.92 | 3746353.18 | 8.25399  | 416731.81 | 3746458.47 | 6.80268  |
| 416731.03 | 3746466.83 | 6.75088  | 416742.01 | 3746473.63 | 6.41850  |
| 416731.03 | 3746411.68 | 7.05719  | 416731.03 | 3746425.01 | 7.02641  |
| 416681.62 | 3746375.61 | 8.41362  | 416698.09 | 3746375.87 | 7.88497  |
| 416703.58 | 3746376.65 | 7.72572  | 416703.58 | 3746357.83 | 7.53117  |
| 416714.56 | 3746373.51 | 7.38532  | 416723.97 | 3746372.99 | 7.12832  |
| 416749.85 | 3746377.17 | 6.51920  | 416759.00 | 3746375.34 | 6.30652  |
| 416774.16 | 3746375.34 | 5.99007  | 416758.21 | 3746413.77 | 6.37804  |
| 416756.65 | 3746428.41 | 6.37298  | 416751.16 | 3746474.68 | 6.19807  |
| 416781.48 | 3746473.63 | 5.58013  | 416756.38 | 3746455.59 | 6.22932  |
| 416773.90 | 3746452.98 | 5.86948  | 416140.28 | 3746195.97 | 10.58075 |
| 416158.30 | 3746194.91 | 11.05436 | 416172.61 | 3746195.44 | 11.50125 |
| 416190.09 | 3746196.50 | 12.06092 | 416220.03 | 3746195.97 | 12.75237 |
| 416239.64 | 3746195.17 | 13.05488 | 416250.77 | 3746195.17 | 13.21572 |
| 416267.19 | 3746194.91 | 13.35720 | 416086.50 | 3746243.39 | 11.11578 |
| 416067.16 | 3746248.16 | 10.51217 | 416057.36 | 3746252.67 | 10.29983 |
| 416049.67 | 3746254.52 | 10.06128 | 416043.58 | 3746258.23 | 9.96347  |
| 416038.28 | 3746258.76 | 9.77316  | 416032.45 | 3746255.32 | 9.42394  |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL6 \*\*\*

INCLUDING SOURCE(S): VOL6 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC    | X-COORD (M) | Y-COORD (M) | CONC    |
|-------------|-------------|---------|-------------|-------------|---------|
| 416026.09   | 3746256.91  | 9.24644 | 416013.38   | 3746259.03  | 8.86873 |
| 416008.87   | 3746260.88  | 8.77346 | 416004.90   | 3746261.94  | 8.67300 |
| 415999.33   | 3746267.24  | 8.64779 | 415984.76   | 3746268.03  | 8.20452 |
| 415970.45   | 3746270.42  | 7.84221 | 415958.53   | 3746270.68  | 7.51721 |
| 415946.61   | 3746271.21  | 7.21850 | 415936.81   | 3746273.07  | 7.01618 |
| 415924.09   | 3746272.80  | 6.71359 | 415913.49   | 3746272.01  | 6.46647 |
| 415899.45   | 3746273.33  | 6.20079 | 415883.29   | 3746274.92  | 5.91655 |
| 415892.30   | 3746272.01  | 6.03933 | 415864.21   | 3746276.25  | 5.59837 |
| 415856.79   | 3746275.98  | 5.47096 | 415843.81   | 3746275.19  | 5.25474 |
| 415834.27   | 3746274.66  | 5.10495 | 415821.55   | 3746275.72  | 4.93588 |
| 415809.63   | 3746274.39  | 4.75987 | 415797.44   | 3746276.78  | 4.62850 |

415787.11 3746276.25 4.49618  
\*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23  
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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:  
SLINE1 \*\*\*

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,  
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC |
|-------------|-------------|------|------------|-------------|-------------|------|
| (YYMMDDHH)  |             |      |            |             |             |      |

|           |            |           |            |           |            |                      |
|-----------|------------|-----------|------------|-----------|------------|----------------------|
| 416018.79 | 3746204.83 | 76.22524  | (13121005) | 416068.79 | 3746204.83 | 83.58599 (15071821)  |
| 416118.79 | 3746204.83 | 83.99612  | (13010208) | 416168.79 | 3746204.83 | 95.47647 (15090918)  |
| 416218.79 | 3746204.83 | 86.53222  | (15090918) | 416268.79 | 3746204.83 | 79.92393 (13122322)  |
| 416318.79 | 3746204.83 | 76.86401  | (16122705) | 416368.79 | 3746204.83 | 71.22763 (14051205)  |
| 416418.79 | 3746204.83 | 67.30439  | (12101118) | 416468.79 | 3746204.83 | 62.38605 (16020803)  |
| 416518.79 | 3746204.83 | 57.91965  | (15030202) | 416018.79 | 3746254.83 | 95.79799 (14092107)  |
| 416068.79 | 3746254.83 | 98.30549  | (15021808) | 416118.79 | 3746254.83 | 104.51362 (16112908) |
| 416168.79 | 3746254.83 | 116.08310 | (13091107) | 416218.79 | 3746254.83 | 110.59262 (13091107) |
| 416268.79 | 3746254.83 | 96.67792  | (13122322) | 416318.79 | 3746254.83 | 90.01348 (16122705)  |
| 416368.79 | 3746254.83 | 82.28480  | (12101118) | 416418.79 | 3746254.83 | 77.54931 (16020803)  |
| 416468.79 | 3746254.83 | 71.64690  | (15030202) | 416518.79 | 3746254.83 | 65.75926 (16112918)  |
| 416018.79 | 3746304.83 | 109.71956 | (15050803) | 416068.79 | 3746304.83 | 131.12874 (14092107) |
| 416118.79 | 3746304.83 | 137.45979 | (15071821) | 416168.79 | 3746304.83 | 148.85002 (13091107) |
| 416218.79 | 3746304.83 | 152.55391 | (13091107) | 416268.79 | 3746304.83 | 119.48794 (13122322) |
| 416318.79 | 3746304.83 | 107.37953 | (13021504) | 416368.79 | 3746304.83 | 98.53663 (12101118)  |
| 416418.79 | 3746304.83 | 90.85392  | (15030202) | 416468.79 | 3746304.83 | 83.65179 (14100319)  |
| 416518.79 | 3746304.83 | 76.46480  | (15101919) | 416018.79 | 3746354.83 | 134.19596 (15031218) |
| 416068.79 | 3746354.83 | 163.77670 | (15050803) | 416118.79 | 3746354.83 | 191.10368 (14092107) |
| 416168.79 | 3746354.83 | 201.21702 | (13091107) | 416218.79 | 3746354.83 | 223.78101 (13091107) |
| 416268.79 | 3746354.83 | 161.97054 | (13091107) | 416318.79 | 3746354.83 | 134.51877 (13060506) |
| 416368.79 | 3746354.83 | 120.54846 | (13060506) | 416418.79 | 3746354.83 | 111.60408 (14100319) |
| 416468.79 | 3746354.83 | 99.62899  | (15122508) | 416518.79 | 3746354.83 | 87.35357 (13071522)  |
| 416018.79 | 3746404.83 | 157.93252 | (15121523) | 416068.79 | 3746404.83 | 219.95573 (15031218) |
| 416118.79 | 3746404.83 | 288.74564 | (16122701) | 416168.79 | 3746404.83 | 355.83212 (13062106) |
| 416218.79 | 3746404.83 | 369.70768 | (13091107) | 416268.79 | 3746404.83 | 266.89684 (13091107) |
| 416318.79 | 3746404.83 | 188.32718 | (15060919) | 416368.79 | 3746404.83 | 158.27082 (14100319) |
| 416418.79 | 3746404.83 | 140.98645 | (15060919) | 416468.79 | 3746404.83 | 122.98277 (12090419) |
| 416518.79 | 3746404.83 | 104.56444 | (15112508) | 416018.79 | 3746454.83 | 179.03776 (16061606) |
| 416068.79 | 3746454.83 | 266.80874 | (15100607) | 416118.79 | 3746454.83 | 472.21321 (12112108) |
| 416168.79 | 3746454.83 | 550.73989 | (14041707) | 416218.79 | 3746454.83 | 755.56705 (14092107) |
| 416268.79 | 3746454.83 | 540.03880 | (13091107) | 416318.79 | 3746454.83 | 340.10800 (13041207) |
| 416368.79 | 3746454.83 | 251.01219 | (14100319) | 416418.79 | 3746454.83 | 197.22677 (15112508) |
| 416468.79 | 3746454.83 | 155.50531 | (13090718) | 416518.79 | 3746454.83 | 121.78586 (12090518) |
| 416018.79 | 3746504.83 | 164.40320 | (14092807) | 416068.79 | 3746504.83 | 217.76225 (14112208) |
| 416118.79 | 3746504.83 | 298.61737 | (14032807) | 416168.79 | 3746504.83 | 427.41496 (16063006) |
| 416218.79 | 3746504.83 | 650.80731 | (12061706) | 416268.79 | 3746504.83 | 667.04454 (12060506) |
| 416318.79 | 3746504.83 | 580.15393 | (12090318) | 416368.79 | 3746504.83 | 495.05492 (12090318) |

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416418.79 3746504.83 279.45679 (12090318)      416468.79 3746504.83 190.11493 (12090318)
416518.79 3746504.83 141.51987 (12090318)      416018.79 3746554.83 132.54669 (14032807)
416068.79 3746554.83 155.93219 (13012017)      416118.79 3746554.83 179.84526 (12113008)
*** AERMOD - VERSION 19191 ***   *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Raymond ***   05/22/23
*** AERMET - VERSION 16216 ***   ***   ***   20:02:04

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
SLINE1 ***
      INCLUDING SOURCE(S):  L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
      L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 ,

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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC (YYMMDDHH) |
|-------------|-------------|-----------------|-------------|-------------|-----------------|
|-------------|-------------|-----------------|-------------|-------------|-----------------|

|           |            |                      |           |            |                      |
|-----------|------------|----------------------|-----------|------------|----------------------|
| 416168.79 | 3746554.83 | 213.68811 (13012017) | 416218.79 | 3746554.83 | 283.68096 (14061806) |
| 416268.79 | 3746554.83 | 409.48781 (12121216) | 416318.79 | 3746554.83 | 517.94575 (12060506) |
| 416368.79 | 3746554.83 | 407.94748 (14090718) | 416418.79 | 3746554.83 | 259.40682 (12012617) |
| 416468.79 | 3746554.83 | 182.76091 (15032718) | 416518.79 | 3746554.83 | 141.51847 (15032718) |
| 416018.79 | 3746604.83 | 105.33298 (16061506) | 416068.79 | 3746604.83 | 123.39252 (12113008) |
| 416118.79 | 3746604.83 | 135.15281 (12113008) | 416168.79 | 3746604.83 | 151.50414 (14061606) |
| 416218.79 | 3746604.83 | 182.88515 (13062306) | 416268.79 | 3746604.83 | 209.88355 (13062406) |
| 416318.79 | 3746604.83 | 245.71745 (14012817) | 416368.79 | 3746604.83 | 244.79632 (13021017) |
| 416418.79 | 3746604.83 | 200.54904 (13062919) | 416468.79 | 3746604.83 | 168.56551 (14090718) |
| 416518.79 | 3746604.83 | 127.70869 (12012617) | 416018.79 | 3746654.83 | 92.24208 (12113008)  |
| 416068.79 | 3746654.83 | 97.02205 (16013108)  | 416118.79 | 3746654.83 | 108.99869 (13062306) |
| 416168.79 | 3746654.83 | 123.43332 (13062306) | 416218.79 | 3746654.83 | 134.67856 (13021908) |
| 416268.79 | 3746654.83 | 151.75031 (13062406) | 416318.79 | 3746654.83 | 167.95908 (14102417) |
| 416368.79 | 3746654.83 | 164.55210 (13070119) | 416418.79 | 3746654.83 | 154.36223 (12013017) |
| 416468.79 | 3746654.83 | 126.05985 (13062919) | 416518.79 | 3746654.83 | 106.39840 (14091518) |
| 416018.79 | 3746704.83 | 75.53861 (15080604)  | 416068.79 | 3746704.83 | 83.23711 (15021708)  |
| 416118.79 | 3746704.83 | 94.53974 (13062306)  | 416168.79 | 3746704.83 | 100.07719 (12022608) |
| 416218.79 | 3746704.83 | 106.07064 (13051706) | 416268.79 | 3746704.83 | 118.63648 (13062406) |
| 416318.79 | 3746704.83 | 125.01915 (14012917) | 416368.79 | 3746704.83 | 126.96980 (14012817) |
| 416418.79 | 3746704.83 | 119.18830 (13021017) | 416468.79 | 3746704.83 | 109.08852 (12013017) |
| 416518.79 | 3746704.83 | 92.05328 (12012517)  | 416302.62 | 3746499.91 | 889.65850 (12061706) |
| 416312.84 | 3746498.80 | 576.86042 (16112016) | 416322.84 | 3746499.46 | 500.19319 (12090318) |
| 416332.84 | 3746498.80 | 548.86375 (16090907) | 416342.39 | 3746499.24 | 776.49585 (16112016) |
| 416190.87 | 3746435.25 | 670.18938 (14092107) | 416189.75 | 3746447.47 | 947.94353 (14092107) |
| 416301.03 | 3746253.85 | 92.25088 (16122705)  | 416335.27 | 3746290.44 | 98.35523 (14051205)  |
| 416331.87 | 3746279.46 | 95.21990 (14051205)  | 416361.93 | 3746288.35 | 93.89565 (12101118)  |
| 416370.04 | 3746286.52 | 92.31957 (12101118)  | 416384.15 | 3746286.52 | 90.18136 (13060506)  |
| 416388.59 | 3746285.74 | 89.30091 (13060506)  | 416400.10 | 3746294.10 | 90.25407 (16020803)  |
| 416406.37 | 3746294.62 | 89.22998 (16020803)  | 416409.51 | 3746291.23 | 87.72116 (16020803)  |
| 416422.31 | 3746291.23 | 86.14268 (15030202)  | 416428.85 | 3746288.87 | 84.73256 (15030202)  |
| 416444.80 | 3746287.83 | 82.03426 (15030202)  | 416448.19 | 3746291.75 | 82.10532 (15030202)  |
| 416459.69 | 3746291.75 | 80.99416 (12010817)  | 416466.23 | 3746288.87 | 79.50117 (12010817)  |
| 416481.65 | 3746287.04 | 76.97960 (12010817)  | 416485.31 | 3746291.23 | 77.79728 (14100319)  |
| 416499.95 | 3746290.96 | 76.79537 (14100319)  | 416505.44 | 3746288.35 | 75.55217 (14100319)  |
| 416520.34 | 3746287.31 | 73.47039 (14100319)  | 416525.57 | 3746291.23 | 73.23635 (14100319)  |

|           |            |          |            |           |            |          |            |
|-----------|------------|----------|------------|-----------|------------|----------|------------|
| 416540.99 | 3746294.62 | 70.66801 | (14043019) | 416545.17 | 3746289.92 | 69.22802 | (14043019) |
| 416557.98 | 3746293.58 | 68.04275 | (15122508) | 416562.95 | 3746288.35 | 66.53613 | (15122508) |
| 416578.63 | 3746286.26 | 64.20740 | (15060919) | 416580.72 | 3746290.18 | 64.58122 | (15060919) |
| 416595.36 | 3746289.13 | 62.25444 | (15060919) | 416600.85 | 3746291.49 | 61.77258 | (13110117) |
| 416614.97 | 3746286.52 | 59.34147 | (13110117) | 416619.15 | 3746289.66 | 59.03993 | (13110117) |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

SLINE1 \*\*\*

INCLUDING SOURCE(S): L0000001 ,L0000002 ,L0000003 ,L0000004 ,L0000005 ,  
L0000006 ,L0000007 ,L0000008 ,L0000009 ,L0000010 ,L0000011 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3

\*\*

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|-------------|-------------|------|------------|-------------|-------------|------|------------|
|-------------|-------------|------|------------|-------------|-------------|------|------------|

|           |            |          |            |           |            |          |            |
|-----------|------------|----------|------------|-----------|------------|----------|------------|
| 416629.34 | 3746289.40 | 57.40046 | (13110117) | 416637.18 | 3746292.53 | 56.98146 | (13071522) |
| 416649.99 | 3746292.27 | 55.48157 | (14120717) | 416655.48 | 3746286.52 | 54.26971 | (13071522) |
| 416669.34 | 3746284.43 | 52.67710 | (14120717) | 416672.73 | 3746287.83 | 52.94022 | (14120717) |
| 416686.33 | 3746289.13 | 51.79324 | (14120717) | 416691.03 | 3746287.83 | 51.18444 | (14120717) |
| 416703.58 | 3746287.83 | 49.79091 | (14120717) | 416709.07 | 3746290.18 | 49.54936 | (12090419) |
| 416725.01 | 3746283.65 | 47.51934 | (12090419) | 416718.22 | 3746289.66 | 48.70758 | (12090419) |
| 416727.89 | 3746288.09 | 47.69363 | (12090419) | 416740.17 | 3746287.57 | 46.48777 | (12090419) |
| 416745.93 | 3746284.43 | 45.76114 | (12090419) | 416761.09 | 3746284.43 | 44.26091 | (12090419) |
| 416764.75 | 3746287.04 | 43.90456 | (12090419) | 416777.29 | 3746286.52 | 42.77534 | (12091219) |
| 416782.78 | 3746288.09 | 42.43072 | (12091219) | 416572.62 | 3746354.48 | 77.24324 | (12090419) |
| 416583.60 | 3746355.01 | 75.24980 | (12090419) | 416576.54 | 3746367.55 | 78.42077 | (12090419) |
| 416582.81 | 3746368.86 | 77.29256 | (12091219) | 416586.21 | 3746371.48 | 76.88993 | (12091219) |
| 416587.26 | 3746353.70 | 74.29992 | (12090419) | 416600.07 | 3746355.53 | 71.76654 | (12090419) |
| 416605.03 | 3746368.08 | 72.93770 | (15112508) | 416612.61 | 3746375.66 | 73.42860 | (15112508) |
| 416608.95 | 3746356.58 | 70.09402 | (12091219) | 416621.76 | 3746357.62 | 67.78470 | (13080421) |
| 416622.28 | 3746371.74 | 70.94963 | (15112508) | 416625.68 | 3746370.95 | 70.20595 | (15112508) |
| 416640.32 | 3746372.26 | 67.60044 | (15112508) | 416625.94 | 3746355.27 | 66.77245 | (12091219) |
| 416635.62 | 3746355.53 | 65.45677 | (15112508) | 416641.89 | 3746373.31 | 67.35864 | (15112508) |
| 416654.17 | 3746374.35 | 64.86988 | (15112508) | 416643.20 | 3746360.50 | 65.57184 | (15112508) |
| 416652.61 | 3746360.50 | 64.17094 | (15112508) | 416656.79 | 3746375.40 | 64.30233 | (15112508) |
| 416663.59 | 3746375.40 | 63.18017 | (13101817) | 416658.10 | 3746356.31 | 62.73875 | (15112508) |
| 416668.29 | 3746357.36 | 61.40972 | (15112508) | 416672.21 | 3746353.18 | 60.34408 | (15112508) |
| 416676.92 | 3746353.18 | 59.69654 | (15112508) | 416731.81 | 3746458.47 | 59.00999 | (13033018) |
| 416731.03 | 3746466.83 | 59.64499 | (12070919) | 416742.01 | 3746473.63 | 58.45211 | (12070919) |
| 416731.03 | 3746411.68 | 56.27167 | (13090718) | 416731.03 | 3746425.01 | 56.29827 | (12090518) |
| 416681.62 | 3746375.61 | 60.56098 | (13101817) | 416698.09 | 3746375.87 | 58.09640 | (13101817) |
| 416703.58 | 3746376.65 | 57.29294 | (13101817) | 416703.58 | 3746357.83 | 55.87606 | (15112508) |
| 416714.56 | 3746373.51 | 55.52521 | (13101817) | 416723.97 | 3746372.99 | 54.14009 | (13101817) |
| 416749.85 | 3746377.17 | 51.41388 | (13032418) | 416759.00 | 3746375.34 | 50.21636 | (13032418) |
| 416774.16 | 3746375.34 | 48.60936 | (13090718) | 416758.21 | 3746413.77 | 52.22061 | (12090518) |
| 416756.65 | 3746428.41 | 52.79878 | (13033018) | 416751.16 | 3746474.68 | 57.05497 | (12070919) |
| 416781.48 | 3746473.63 | 52.65748 | (12070919) | 416756.38 | 3746455.59 | 55.16700 | (13033018) |
| 416773.90 | 3746452.98 | 52.69128 | (13033018) | 416140.28 | 3746195.97 | 82.77952 | (15090918) |

|           |            |          |            |           |            |          |            |
|-----------|------------|----------|------------|-----------|------------|----------|------------|
| 416158.30 | 3746194.91 | 90.14192 | (15090918) | 416172.61 | 3746195.44 | 93.01540 | (15090918) |
| 416190.09 | 3746196.50 | 92.71308 | (15090918) | 416220.03 | 3746195.97 | 82.55876 | (15090918) |
| 416239.64 | 3746195.17 | 78.83468 | (15050405) | 416250.77 | 3746195.17 | 78.20452 | (13102523) |
| 416267.19 | 3746194.91 | 76.94537 | (13122322) | 416086.50 | 3746243.39 | 99.18745 | (15071821) |
| 416067.16 | 3746248.16 | 95.65468 | (15021808) | 416057.36 | 3746252.67 | 96.37677 | (13121005) |
| 416049.67 | 3746254.52 | 96.55902 | (16122622) | 416043.58 | 3746258.23 | 98.06983 | (16122622) |
| 416038.28 | 3746258.76 | 97.43076 | (16122622) | 416032.45 | 3746255.32 | 94.98333 | (16122622) |

\*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

SLINE1 \*\*\*

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,  
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|-------------|-------------|------|------------|-------------|-------------|------|------------|
|-------------|-------------|------|------------|-------------|-------------|------|------------|

|           |            |          |            |           |            |          |            |
|-----------|------------|----------|------------|-----------|------------|----------|------------|
| 416026.09 | 3746256.91 | 95.87631 | (14092107) | 416013.38 | 3746259.03 | 98.24233 | (14092107) |
| 416008.87 | 3746260.88 | 97.97124 | (14092107) | 416004.90 | 3746261.94 | 96.74361 | (14092107) |
| 415999.33 | 3746267.24 | 93.53171 | (14092107) | 415984.76 | 3746268.03 | 86.38230 | (13112304) |
| 415970.45 | 3746270.42 | 86.22081 | (15050803) | 415958.53 | 3746270.68 | 83.90662 | (15050803) |
| 415946.61 | 3746271.21 | 80.99633 | (16122701) | 415936.81 | 3746273.07 | 79.99380 | (16122701) |
| 415924.09 | 3746272.80 | 77.01757 | (16122701) | 415913.49 | 3746272.01 | 74.19746 | (16101920) |
| 415899.45 | 3746273.33 | 71.41825 | (16101920) | 415883.29 | 3746274.92 | 68.83667 | (15031218) |
| 415892.30 | 3746272.01 | 69.55763 | (16101920) | 415864.21 | 3746276.25 | 67.62383 | (15031218) |
| 415856.79 | 3746275.98 | 66.60530 | (15031218) | 415843.81 | 3746275.19 | 64.50812 | (15031218) |
| 415834.27 | 3746274.66 | 62.80924 | (15031218) | 415821.55 | 3746275.72 | 60.37926 | (15031218) |
| 415809.63 | 3746274.39 | 57.92129 | (15031218) | 415797.44 | 3746276.78 | 55.02684 | (15031218) |
| 415787.11 | 3746276.25 | 53.14798 | (15100506) |           |            |          |            |

\*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* 20:02:04

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

SLINE2 \*\*\*

INCLUDING SOURCE(S): L0000023 , L0000024 , L0000025 , L0000026 , L0000027 ,  
L0000028 , L0000029 , L0000030 , L0000031 , L0000032 , L0000033 , L0000034 , L0000035 ,  
L0000036 , L0000037 , L0000038 , L0000039 , L0000040 , L0000041 , L0000042 , L0000043 ,  
L0000044 , L0000045 , L0000046 , L0000047 , L0000048 , L0000049 , L0000050 , ... ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|-------------|-------------|------|------------|-------------|-------------|------|------------|
|-------------|-------------|------|------------|-------------|-------------|------|------------|

|           |            |           |            |           |            |           |            |
|-----------|------------|-----------|------------|-----------|------------|-----------|------------|
| 416018.79 | 3746204.83 | 38.55212  | (15101907) | 416068.79 | 3746204.83 | 40.76418  | (15121523) |
| 416118.79 | 3746204.83 | 48.19014  | (15090918) | 416168.79 | 3746204.83 | 48.41142  | (13122322) |
| 416218.79 | 3746204.83 | 52.32268  | (16122705) | 416268.79 | 3746204.83 | 53.72298  | (12012818) |
| 416318.79 | 3746204.83 | 58.01708  | (13060506) | 416368.79 | 3746204.83 | 57.17462  | (15030202) |
| 416418.79 | 3746204.83 | 59.68622  | (16020908) | 416468.79 | 3746204.83 | 60.85733  | (14100319) |
| 416518.79 | 3746204.83 | 62.23636  | (15060919) | 416018.79 | 3746254.83 | 50.72777  | (12112108) |
| 416068.79 | 3746254.83 | 55.15679  | (12112108) | 416118.79 | 3746254.83 | 68.31581  | (13091107) |
| 416168.79 | 3746254.83 | 66.51332  | (13122322) | 416218.79 | 3746254.83 | 70.79324  | (14051406) |
| 416268.79 | 3746254.83 | 78.69980  | (13060506) | 416318.79 | 3746254.83 | 77.88869  | (13121017) |
| 416368.79 | 3746254.83 | 83.64825  | (16020908) | 416418.79 | 3746254.83 | 86.70882  | (15060919) |
| 416468.79 | 3746254.83 | 91.40105  | (15060919) | 416518.79 | 3746254.83 | 93.19099  | (15060919) |
| 416018.79 | 3746304.83 | 66.61120  | (15100607) | 416068.79 | 3746304.83 | 76.56501  | (15100607) |
| 416118.79 | 3746304.83 | 108.07220 | (13091107) | 416168.79 | 3746304.83 | 100.57319 | (15100607) |
| 416218.79 | 3746304.83 | 115.66206 | (13060506) | 416268.79 | 3746304.83 | 124.81323 | (16020908) |
| 416318.79 | 3746304.83 | 138.80237 | (12061706) | 416368.79 | 3746304.83 | 156.03131 | (12061706) |
| 416418.79 | 3746304.83 | 181.78131 | (12061706) | 416468.79 | 3746304.83 | 196.37243 | (12061706) |
| 416518.79 | 3746304.83 | 195.31565 | (12061706) | 416018.79 | 3746354.83 | 92.53714  | (14092507) |
| 416068.79 | 3746354.83 | 118.22197 | (14092507) | 416118.79 | 3746354.83 | 216.01634 | (13091107) |
| 416168.79 | 3746354.83 | 243.01026 | (13041207) | 416218.79 | 3746354.83 | 226.62130 | (16090907) |
| 416268.79 | 3746354.83 | 253.24652 | (13021508) | 416318.79 | 3746354.83 | 225.29700 | (13021508) |
| 416368.79 | 3746354.83 | 207.65185 | (12090318) | 416418.79 | 3746354.83 | 220.12452 | (12061706) |
| 416468.79 | 3746354.83 | 260.62196 | (12061706) | 416518.79 | 3746354.83 | 259.83319 | (12061706) |
| 416018.79 | 3746404.83 | 114.84966 | (13040707) | 416068.79 | 3746404.83 | 171.07319 | (15051606) |
| 416118.79 | 3746404.83 | 297.13151 | (13091107) | 416168.79 | 3746404.83 | 261.61974 | (12061706) |
| 416218.79 | 3746404.83 | 170.09104 | (12061706) | 416268.79 | 3746404.83 | 138.13161 | (12061706) |
| 416318.79 | 3746404.83 | 122.99338 | (12061706) | 416368.79 | 3746404.83 | 112.08413 | (12061706) |
| 416418.79 | 3746404.83 | 103.14763 | (12061706) | 416468.79 | 3746404.83 | 97.62746  | (12061706) |
| 416518.79 | 3746404.83 | 95.09979  | (12061706) | 416018.79 | 3746454.83 | 111.67408 | (14032807) |
| 416068.79 | 3746454.83 | 146.16172 | (13012017) | 416118.79 | 3746454.83 | 170.04715 | (16063006) |
| 416168.79 | 3746454.83 | 147.13743 | (12061706) | 416218.79 | 3746454.83 | 97.15352  | (12061706) |
| 416268.79 | 3746454.83 | 78.10413  | (12061706) | 416318.79 | 3746454.83 | 70.56357  | (12061706) |
| 416368.79 | 3746454.83 | 65.99499  | (12061706) | 416418.79 | 3746454.83 | 62.58426  | (12061706) |
| 416468.79 | 3746454.83 | 60.01463  | (12061706) | 416518.79 | 3746454.83 | 58.01796  | (12061706) |
| 416018.79 | 3746504.83 | 89.19640  | (13012017) | 416068.79 | 3746504.83 | 113.61389 | (12113008) |
| 416118.79 | 3746504.83 | 172.60784 | (16063006) | 416168.79 | 3746504.83 | 154.48029 | (12121216) |
| 416218.79 | 3746504.83 | 81.09327  | (13062919) | 416268.79 | 3746504.83 | 58.63936  | (14090718) |
| 416318.79 | 3746504.83 | 48.88707  | (12061706) | 416368.79 | 3746504.83 | 46.12532  | (12061706) |
| 416418.79 | 3746504.83 | 44.10145  | (12061706) | 416468.79 | 3746504.83 | 42.51193  | (12012517) |
| 416518.79 | 3746504.83 | 42.02734  | (14090718) | 416018.79 | 3746554.83 | 68.76265  | (12113008) |
| 416068.79 | 3746554.83 | 80.60902  | (13062306) | 416118.79 | 3746554.83 | 92.77276  | (16063006) |

\*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

SLINE2 \*\*\*

INCLUDING SOURCE(S): L0000023 , L0000024 , L0000025 , L0000026 , L0000027 ,  
L0000028 , L0000029 , L0000030 , L0000031 , L0000032 , L0000033 , L0000034 , L0000035 ,  
L0000036 , L0000037 , L0000038 , L0000039 , L0000040 , L0000041 , L0000042 , L0000043 ,  
L0000044 , L0000045 , L0000046 , L0000047 , L0000048 , L0000049 , L0000050 , ... ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

| X-COORD (M)<br>(YYMMDDHH) | Y-COORD (M) | CONC      | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC                 |
|---------------------------|-------------|-----------|------------|-------------|-------------|----------------------|
| 416168.79                 | 3746554.83  | 85.87766  | (12121216) | 416218.79   | 3746554.83  | 62.56487 (13070119)  |
| 416268.79                 | 3746554.83  | 49.04918  | (12013017) | 416318.79   | 3746554.83  | 41.21963 (13062919)  |
| 416368.79                 | 3746554.83  | 36.62338  | (13062919) | 416418.79   | 3746554.83  | 34.65283 (14061606)  |
| 416468.79                 | 3746554.83  | 34.08714  | (13062306) | 416518.79   | 3746554.83  | 33.46783 (12012517)  |
| 416018.79                 | 3746604.83  | 53.72331  | (15021708) | 416068.79   | 3746604.83  | 58.90988 (12022608)  |
| 416118.79                 | 3746604.83  | 59.96038  | (16063006) | 416168.79   | 3746604.83  | 55.64173 (14052806)  |
| 416218.79                 | 3746604.83  | 48.88605  | (14012817) | 416268.79   | 3746604.83  | 40.95126 (13070119)  |
| 416318.79                 | 3746604.83  | 36.09653  | (12013017) | 416368.79   | 3746604.83  | 32.10546 (12012517)  |
| 416418.79                 | 3746604.83  | 29.56102  | (12012517) | 416468.79   | 3746604.83  | 28.69883 (13062306)  |
| 416518.79                 | 3746604.83  | 28.20814  | (13021017) | 416018.79   | 3746654.83  | 44.62050 (13062306)  |
| 416068.79                 | 3746654.83  | 45.14888  | (13021908) | 416118.79   | 3746654.83  | 43.59909 (13051706)  |
| 416168.79                 | 3746654.83  | 43.50302  | (13062406) | 416218.79   | 3746654.83  | 39.54138 (14102417)  |
| 416268.79                 | 3746654.83  | 35.14854  | (14012817) | 416318.79   | 3746654.83  | 30.95011 (13070119)  |
| 416368.79                 | 3746654.83  | 28.77046  | (13021017) | 416418.79   | 3746654.83  | 26.45676 (12013017)  |
| 416468.79                 | 3746654.83  | 24.93484  | (12012517) | 416518.79   | 3746654.83  | 24.43572 (13021017)  |
| 416018.79                 | 3746704.83  | 36.45094  | (12022608) | 416068.79   | 3746704.83  | 36.30445 (13052406)  |
| 416118.79                 | 3746704.83  | 34.82587  | (16110917) | 416168.79   | 3746704.83  | 35.23514 (13062406)  |
| 416218.79                 | 3746704.83  | 32.33133  | (14012917) | 416268.79   | 3746704.83  | 30.26735 (14102417)  |
| 416318.79                 | 3746704.83  | 27.58147  | (14020617) | 416368.79   | 3746704.83  | 25.19042 (13070119)  |
| 416418.79                 | 3746704.83  | 24.13841  | (13021017) | 416468.79   | 3746704.83  | 22.66956 (13021017)  |
| 416518.79                 | 3746704.83  | 21.80721  | (13021017) | 416302.62   | 3746499.91  | 51.74552 (12061706)  |
| 416312.84                 | 3746498.80  | 51.29834  | (12061706) | 416322.84   | 3746499.46  | 50.34912 (12061706)  |
| 416332.84                 | 3746498.80  | 49.90818  | (12061706) | 416342.39   | 3746499.24  | 49.18804 (12061706)  |
| 416190.87                 | 3746435.25  | 143.97757 | (12061706) | 416189.75   | 3746447.47  | 137.35426 (12061706) |
| 416301.03                 | 3746253.85  | 76.20837  | (13060506) | 416335.27   | 3746290.44  | 114.70920 (16020908) |
| 416331.87                 | 3746279.46  | 102.29555 | (16020908) | 416361.93   | 3746288.35  | 117.34786 (15060919) |
| 416370.04                 | 3746286.52  | 116.21351 | (15060919) | 416384.15   | 3746286.52  | 118.82656 (15060919) |
| 416388.59                 | 3746285.74  | 118.38842 | (15060919) | 416400.10   | 3746294.10  | 137.13301 (12061706) |
| 416406.37                 | 3746294.62  | 140.57551 | (12061706) | 416409.51   | 3746291.23  | 133.04374 (12061706) |
| 416422.31                 | 3746291.23  | 136.67442 | (12061706) | 416428.85   | 3746288.87  | 132.37423 (12061706) |
| 416444.80                 | 3746287.83  | 132.56459 | (12061706) | 416448.19   | 3746291.75  | 143.33472 (12061706) |
| 416459.69                 | 3746291.75  | 144.42512 | (12061706) | 416466.23   | 3746288.87  | 136.92540 (12061706) |
| 416481.65                 | 3746287.04  | 132.73517 | (12061706) | 416485.31   | 3746291.23  | 143.68167 (12061706) |
| 416499.95                 | 3746290.96  | 143.51858 | (16110217) | 416505.44   | 3746288.35  | 137.95678 (16110217) |
| 416520.34                 | 3746287.31  | 136.09322 | (16110217) | 416525.57   | 3746291.23  | 146.29580 (15112508) |
| 416540.99                 | 3746294.62  | 156.17107 | (15112508) | 416545.17   | 3746289.92  | 143.94349 (15112508) |
| 416557.98                 | 3746293.58  | 153.13294 | (15112508) | 416562.95   | 3746288.35  | 140.43578 (15112508) |
| 416578.63                 | 3746286.26  | 135.75498 | (15112508) | 416580.72   | 3746290.18  | 144.12584 (15112508) |
| 416595.36                 | 3746289.13  | 141.15120 | (15112508) | 416600.85   | 3746291.49  | 145.99561 (15112508) |
| 416614.97                 | 3746286.52  | 134.80142 | (15112508) | 416619.15   | 3746289.66  | 140.81149 (15112508) |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

SLINE2 \*\*\*

INCLUDING SOURCE(S): L0000023 , L0000024 , L0000025 , L0000026 , L0000027 ,  
L0000028 , L0000029 , L0000030 , L0000031 , L0000032 , L0000033 , L0000034 , L0000035 ,  
L0000036 , L0000037 , L0000038 , L0000039 , L0000040 , L0000041 , L0000042 , L0000043 ,

L0000044 , L0000045 , L0000046 , L0000047 , L0000048 , L0000049 , L0000050 , ... ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3

\*\*

| X-COORD (M)<br>(YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC |
|---------------------------|-------------|------|------------|-------------|-------------|------|
|---------------------------|-------------|------|------------|-------------|-------------|------|

|           |            |           |            |           |            |                      |
|-----------|------------|-----------|------------|-----------|------------|----------------------|
| 416629.34 | 3746289.40 | 139.54076 | (15112508) | 416637.18 | 3746292.53 | 145.55186 (15112508) |
| 416649.99 | 3746292.27 | 143.85107 | (15112508) | 416655.48 | 3746286.52 | 131.95131 (15112508) |
| 416669.34 | 3746284.43 | 127.10879 | (15112508) | 416672.73 | 3746287.83 | 132.83546 (15112508) |
| 416686.33 | 3746289.13 | 133.91645 | (15112508) | 416691.03 | 3746287.83 | 130.98251 (15112508) |
| 416703.58 | 3746287.83 | 129.55126 | (15112508) | 416709.07 | 3746290.18 | 133.26094 (15112508) |
| 416725.01 | 3746283.65 | 119.73061 | (15112508) | 416718.22 | 3746289.66 | 131.02150 (15112508) |
| 416727.89 | 3746288.09 | 126.70614 | (15112508) | 416740.17 | 3746287.57 | 123.75309 (15112508) |
| 416745.93 | 3746284.43 | 117.59041 | (15112508) | 416761.09 | 3746284.43 | 114.55485 (15112508) |
| 416764.75 | 3746287.04 | 117.73154 | (15112508) | 416777.29 | 3746286.52 | 113.70434 (15112508) |
| 416782.78 | 3746288.09 | 114.86608 | (16100718) | 416572.62 | 3746354.48 | 263.25977 (12061706) |
| 416583.60 | 3746355.01 | 258.52859 | (12061706) | 416576.54 | 3746367.55 | 177.41138 (12061706) |
| 416582.81 | 3746368.86 | 171.62779 | (12061706) | 416586.21 | 3746371.48 | 161.36280 (12061706) |
| 416587.26 | 3746353.70 | 271.40625 | (12061706) | 416600.07 | 3746355.53 | 253.33075 (12061706) |
| 416605.03 | 3746368.08 | 173.94637 | (12061706) | 416612.61 | 3746375.66 | 146.13844 (12061706) |
| 416608.95 | 3746356.58 | 243.39542 | (12061706) | 416621.76 | 3746357.62 | 234.48076 (12061706) |
| 416622.28 | 3746371.74 | 158.53514 | (12061706) | 416625.68 | 3746370.95 | 161.21990 (12061706) |
| 416640.32 | 3746372.26 | 155.34616 | (12061706) | 416625.94 | 3746355.27 | 254.55800 (12061706) |
| 416635.62 | 3746355.53 | 252.00712 | (12061706) | 416641.89 | 3746373.31 | 151.58083 (12061706) |
| 416654.17 | 3746374.35 | 147.00090 | (12061706) | 416643.20 | 3746360.50 | 212.12539 (12061706) |
| 416652.61 | 3746360.50 | 211.40490 | (12061706) | 416656.79 | 3746375.40 | 143.41038 (12061706) |
| 416663.59 | 3746375.40 | 142.65886 | (12061706) | 416658.10 | 3746356.31 | 243.28294 (12061706) |
| 416668.29 | 3746357.36 | 233.13954 | (12061706) | 416672.21 | 3746353.18 | 203.58902 (13100917) |
| 416676.92 | 3746353.18 | 199.81152 | (13100917) | 416731.81 | 3746458.47 | 53.94192 (14090718)  |
| 416731.03 | 3746466.83 | 50.93847  | (14090718) | 416742.01 | 3746473.63 | 48.57021 (14090718)  |
| 416731.03 | 3746411.68 | 79.71207  | (14090718) | 416731.03 | 3746425.01 | 70.28436 (14090718)  |
| 416681.62 | 3746375.61 | 139.61981 | (12061706) | 416698.09 | 3746375.87 | 135.97325 (12061706) |
| 416703.58 | 3746376.65 | 132.51878 | (12061706) | 416703.58 | 3746357.83 | 223.76271 (12061706) |
| 416714.56 | 3746373.51 | 139.66738 | (12061706) | 416723.97 | 3746372.99 | 138.62898 (12061706) |
| 416749.85 | 3746377.17 | 124.97669 | (15032718) | 416759.00 | 3746375.34 | 128.21735 (15032718) |
| 416774.16 | 3746375.34 | 125.65398 | (15032718) | 416758.21 | 3746413.77 | 76.29982 (14090718)  |
| 416756.65 | 3746428.41 | 67.04195  | (14090718) | 416751.16 | 3746474.68 | 48.11311 (14090718)  |
| 416781.48 | 3746473.63 | 47.86501  | (14090718) | 416756.38 | 3746455.59 | 54.49609 (14090718)  |
| 416773.90 | 3746452.98 | 54.94691  | (14090718) | 416140.28 | 3746195.97 | 44.11828 (12011301)  |
| 416158.30 | 3746194.91 | 45.01618  | (13102523) | 416172.61 | 3746195.44 | 46.67769 (13122322)  |
| 416190.09 | 3746196.50 | 48.88544  | (13122322) | 416220.03 | 3746195.97 | 50.10626 (16122705)  |
| 416239.64 | 3746195.17 | 50.27096  | (13021504) | 416250.77 | 3746195.17 | 50.55468 (14051205)  |
| 416267.19 | 3746194.91 | 51.08342  | (12012818) | 416086.50 | 3746243.39 | 56.13075 (13091107)  |
| 416067.16 | 3746248.16 | 52.81113  | (12112108) | 416057.36 | 3746252.67 | 53.45294 (12112108)  |
| 416049.67 | 3746254.52 | 53.35052  | (12112108) | 416043.58 | 3746258.23 | 53.88811 (12112108)  |
| 416038.28 | 3746258.76 | 53.53518  | (12112108) | 416032.45 | 3746255.32 | 52.05110 (12112108)  |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

SLINE2 \*\*\*  
INCLUDING SOURCE(S): L0000023 , L0000024 , L0000025 , L0000026 , L0000027 ,  
L0000028 , L0000029 , L0000030 , L0000031 , L0000032 , L0000033 , L0000034 , L0000035 ,  
L0000036 , L0000037 , L0000038 , L0000039 , L0000040 , L0000041 , L0000042 , L0000043 ,  
L0000044 , L0000045 , L0000046 , L0000047 , L0000048 , L0000049 , L0000050 , ... ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M)<br>(YYMMDDHH) | Y-COORD (M) | CONC<br>(YYMMDDHH)  | X-COORD (M)<br>(YYMMDDHH) | Y-COORD (M) | CONC<br>(YYMMDDHH)  |
|---------------------------|-------------|---------------------|---------------------------|-------------|---------------------|
| 416026.09                 | 3746256.91  | 51.90205 (12112108) | 416013.38                 | 3746259.03  | 51.26493 (12112108) |
| 416008.87                 | 3746260.88  | 51.27535 (12112108) | 416004.90                 | 3746261.94  | 51.13730 (12112108) |
| 415999.33                 | 3746267.24  | 51.75860 (15100607) | 415984.76                 | 3746268.03  | 50.78948 (15100607) |
| 415970.45                 | 3746270.42  | 50.27853 (15100607) | 415958.53                 | 3746270.68  | 49.35551 (15100607) |
| 415946.61                 | 3746271.21  | 48.50993 (15100607) | 415936.81                 | 3746273.07  | 48.13094 (15100607) |
| 415924.09                 | 3746272.80  | 47.03875 (15100607) | 415913.49                 | 3746272.01  | 46.04574 (15100607) |
| 415899.45                 | 3746273.33  | 45.18983 (15100607) | 415883.29                 | 3746274.92  | 44.18457 (15100607) |
| 415892.30                 | 3746272.01  | 44.42278 (15100607) | 415864.21                 | 3746276.25  | 42.88928 (15100607) |
| 415856.79                 | 3746275.98  | 42.29196 (15100607) | 415843.81                 | 3746275.19  | 41.23976 (15100607) |
| 415834.27                 | 3746274.66  | 40.49558 (15100607) | 415821.55                 | 3746275.72  | 39.68070 (15100607) |
| 415809.63                 | 3746274.39  | 38.74224 (15100607) | 415797.44                 | 3746276.78  | 38.05922 (15100607) |
| 415787.11                 | 3746276.25  | 37.32042 (15100607) |                           |             |                     |

\*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23  
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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

SLINE3 \*\*\*  
INCLUDING SOURCE(S): L0000066 , L0000067 , L0000068 , L0000069 , L0000070 ,  
L0000071 , L0000072 , L0000073 , L0000074 , L0000075 , L0000076 , L0000077 , L0000078 ,  
L0000079 , L0000080 , L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 ,  
L0000087 , L0000088 , L0000089 , L0000090 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M)<br>(YYMMDDHH) | Y-COORD (M) | CONC<br>(YYMMDDHH)   | X-COORD (M)<br>(YYMMDDHH) | Y-COORD (M) | CONC<br>(YYMMDDHH)   |
|---------------------------|-------------|----------------------|---------------------------|-------------|----------------------|
| 416018.79                 | 3746204.83  | 83.69424 (15090918)  | 416068.79                 | 3746204.83  | 90.27086 (13091107)  |
| 416118.79                 | 3746204.83  | 70.62739 (13122322)  | 416168.79                 | 3746204.83  | 62.55625 (13021504)  |
| 416218.79                 | 3746204.83  | 55.10856 (13060506)  | 416268.79                 | 3746204.83  | 49.89126 (14100319)  |
| 416318.79                 | 3746204.83  | 46.69677 (14120717)  | 416368.79                 | 3746204.83  | 44.30908 (14120717)  |
| 416418.79                 | 3746204.83  | 41.61976 (12090419)  | 416468.79                 | 3746204.83  | 38.54066 (12091219)  |
| 416518.79                 | 3746204.83  | 35.93545 (15112508)  | 416018.79                 | 3746254.83  | 112.32743 (16112908) |
| 416068.79                 | 3746254.83  | 133.32218 (13091107) | 416118.79                 | 3746254.83  | 93.45935 (13122322)  |
| 416168.79                 | 3746254.83  | 77.38626 (14051205)  | 416218.79                 | 3746254.83  | 65.63078 (14120717)  |
| 416268.79                 | 3746254.83  | 61.09336 (12090419)  | 416318.79                 | 3746254.83  | 56.03724 (12090419)  |
| 416368.79                 | 3746254.83  | 51.43947 (15112508)  | 416418.79                 | 3746254.83  | 46.84366 (15112508)  |
| 416468.79                 | 3746254.83  | 43.04592 (13101817)  | 416518.79                 | 3746254.83  | 39.74823 (13032418)  |

|           |            |                      |           |            |                      |
|-----------|------------|----------------------|-----------|------------|----------------------|
| 416018.79 | 3746304.83 | 178.48161 (15021808) | 416068.79 | 3746304.83 | 198.13218 (13091107) |
| 416118.79 | 3746304.83 | 136.73538 (13122322) | 416168.79 | 3746304.83 | 102.39800 (13060506) |
| 416218.79 | 3746304.83 | 88.37354 (15112508)  | 416268.79 | 3746304.83 | 77.55465 (13032418)  |
| 416318.79 | 3746304.83 | 68.47917 (12070619)  | 416368.79 | 3746304.83 | 60.91250 (13090718)  |
| 416418.79 | 3746304.83 | 54.27546 (13090718)  | 416468.79 | 3746304.83 | 48.40007 (13090718)  |
| 416518.79 | 3746304.83 | 43.38130 (16071319)  | 416018.79 | 3746354.83 | 427.78905 (14092107) |
| 416068.79 | 3746354.83 | 402.17608 (13091107) | 416118.79 | 3746354.83 | 284.64411 (13091107) |
| 416168.79 | 3746354.83 | 170.66416 (12090518) | 416218.79 | 3746354.83 | 129.84250 (13033018) |
| 416268.79 | 3746354.83 | 102.73856 (13033018) | 416318.79 | 3746354.83 | 84.34617 (13033018)  |
| 416368.79 | 3746354.83 | 71.36787 (13033018)  | 416418.79 | 3746354.83 | 61.60989 (13033018)  |
| 416468.79 | 3746354.83 | 53.89394 (13033018)  | 416518.79 | 3746354.83 | 47.85947 (12070919)  |
| 416018.79 | 3746404.83 | 312.64952 (12061706) | 416068.79 | 3746404.83 | 453.26383 (12061706) |
| 416118.79 | 3746404.83 | 410.41980 (13091107) | 416168.79 | 3746404.83 | 277.60262 (13100917) |
| 416218.79 | 3746404.83 | 169.74375 (13100917) | 416268.79 | 3746404.83 | 124.97998 (12090318) |
| 416318.79 | 3746404.83 | 99.61406 (12090318)  | 416368.79 | 3746404.83 | 82.36981 (12090318)  |
| 416418.79 | 3746404.83 | 69.77340 (12090318)  | 416468.79 | 3746404.83 | 60.16621 (12090318)  |
| 416518.79 | 3746404.83 | 52.61442 (12090318)  | 416018.79 | 3746454.83 | 144.29357 (12061706) |
| 416068.79 | 3746454.83 | 216.00791 (12061706) | 416118.79 | 3746454.83 | 343.18990 (12121216) |
| 416168.79 | 3746454.83 | 272.22958 (14090718) | 416218.79 | 3746454.83 | 180.95402 (15032718) |
| 416268.79 | 3746454.83 | 137.67755 (15032718) | 416318.79 | 3746454.83 | 108.02478 (15032718) |
| 416368.79 | 3746454.83 | 87.08572 (13100917)  | 416418.79 | 3746454.83 | 72.82075 (13100917)  |
| 416468.79 | 3746454.83 | 61.53567 (13100917)  | 416518.79 | 3746454.83 | 52.49024 (13100917)  |
| 416018.79 | 3746504.83 | 100.35530 (12113008) | 416068.79 | 3746504.83 | 144.26050 (15021708) |
| 416118.79 | 3746504.83 | 277.38950 (16063006) | 416168.79 | 3746504.83 | 264.89659 (12060506) |
| 416218.79 | 3746504.83 | 190.22908 (14090718) | 416268.79 | 3746504.83 | 142.24699 (14090718) |
| 416318.79 | 3746504.83 | 103.61112 (13102217) | 416368.79 | 3746504.83 | 80.17446 (16042223)  |
| 416418.79 | 3746504.83 | 71.10426 (15032718)  | 416468.79 | 3746504.83 | 62.76459 (15032718)  |
| 416518.79 | 3746504.83 | 55.01886 (15032718)  | 416018.79 | 3746554.83 | 82.00079 (15021708)  |
| 416068.79 | 3746554.83 | 107.04151 (13021908) | 416118.79 | 3746554.83 | 137.15885 (13062406) |

\*\*\* AERMOD - VERSION 19191 \*\*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

SLINE3 \*\*\*

INCLUDING SOURCE(S): L0000066 , L0000067 , L0000068 , L0000069 , L0000070 ,  
L0000071 , L0000072 , L0000073 , L0000074 , L0000075 , L0000076 , L0000077 , L0000078 ,  
L0000079 , L0000080 , L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 ,  
L0000087 , L0000088 , L0000089 , L0000090 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC (YYMMDDHH)      | X-COORD (M) | Y-COORD (M) | CONC (YYMMDDHH)      |
|-------------|-------------|----------------------|-------------|-------------|----------------------|
| 416168.79   | 3746554.83  | 147.80685 (14012817) | 416218.79   | 3746554.83  | 136.18068 (12013017) |
| 416268.79   | 3746554.83  | 114.23797 (13062919) | 416318.79   | 3746554.83  | 100.02327 (14090718) |
| 416368.79   | 3746554.83  | 85.25127 (14090718)  | 416418.79   | 3746554.83  | 69.15654 (12012617)  |
| 416468.79   | 3746554.83  | 56.74679 (13102217)  | 416518.79   | 3746554.83  | 48.50660 (16042223)  |
| 416018.79   | 3746604.83  | 68.66884 (12022608)  | 416068.79   | 3746604.83  | 79.71522 (16061306)  |
| 416118.79   | 3746604.83  | 93.93339 (13062406)  | 416168.79   | 3746604.83  | 106.36515 (12121216) |
| 416218.79   | 3746604.83  | 95.34387 (13070119)  | 416268.79   | 3746604.83  | 91.36158 (12013017)  |

|           |            |           |            |           |            |           |            |
|-----------|------------|-----------|------------|-----------|------------|-----------|------------|
| 416318.79 | 3746604.83 | 79.55676  | (13062919) | 416368.79 | 3746604.83 | 69.57856  | (15062719) |
| 416418.79 | 3746604.83 | 66.91835  | (14090718) | 416468.79 | 3746604.83 | 59.26155  | (14090718) |
| 416518.79 | 3746604.83 | 50.42183  | (12012617) | 416018.79 | 3746654.83 | 56.87249  | (13021908) |
| 416068.79 | 3746654.83 | 62.20532  | (13051706) | 416118.79 | 3746654.83 | 71.17638  | (13062406) |
| 416168.79 | 3746654.83 | 74.42446  | (14012917) | 416218.79 | 3746654.83 | 74.31508  | (14012817) |
| 416268.79 | 3746654.83 | 74.67533  | (13021017) | 416318.79 | 3746654.83 | 68.13966  | (12013017) |
| 416368.79 | 3746654.83 | 60.35419  | (12112517) | 416418.79 | 3746654.83 | 56.41750  | (13062919) |
| 416468.79 | 3746654.83 | 51.01997  | (14091518) | 416518.79 | 3746654.83 | 49.38816  | (14090718) |
| 416018.79 | 3746704.83 | 47.79250  | (13052406) | 416068.79 | 3746704.83 | 50.81756  | (16110917) |
| 416118.79 | 3746704.83 | 57.24572  | (13062406) | 416168.79 | 3746704.83 | 59.03462  | (14012917) |
| 416218.79 | 3746704.83 | 60.58678  | (14012817) | 416268.79 | 3746704.83 | 58.55676  | (13070119) |
| 416318.79 | 3746704.83 | 59.54923  | (13021017) | 416368.79 | 3746704.83 | 53.95504  | (12013017) |
| 416418.79 | 3746704.83 | 49.09204  | (12012517) | 416468.79 | 3746704.83 | 46.35751  | (13062919) |
| 416518.79 | 3746704.83 | 41.38388  | (15062719) | 416302.62 | 3746499.91 | 112.75351 | (12012617) |
| 416312.84 | 3746498.80 | 105.75095 | (13102217) | 416322.84 | 3746499.46 | 99.70661  | (13102217) |
| 416332.84 | 3746498.80 | 93.46359  | (13102217) | 416342.39 | 3746499.24 | 89.39780  | (16042223) |
| 416190.87 | 3746435.25 | 218.33069 | (15032718) | 416189.75 | 3746447.47 | 228.01739 | (12012617) |
| 416301.03 | 3746253.85 | 57.73140  | (12090419) | 416335.27 | 3746290.44 | 62.04894  | (13032418) |
| 416331.87 | 3746279.46 | 59.74029  | (15112508) | 416361.93 | 3746288.35 | 58.22307  | (13032418) |
| 416370.04 | 3746286.52 | 56.87188  | (13032418) | 416384.15 | 3746286.52 | 55.26623  | (13032418) |
| 416388.59 | 3746285.74 | 54.62787  | (13032418) | 416400.10 | 3746294.10 | 54.84131  | (13090718) |
| 416406.37 | 3746294.62 | 54.24932  | (13090718) | 416409.51 | 3746291.23 | 53.28190  | (13090718) |
| 416422.31 | 3746291.23 | 51.97300  | (13090718) | 416428.85 | 3746288.87 | 50.92902  | (13090718) |
| 416444.80 | 3746287.83 | 49.25611  | (13090718) | 416448.19 | 3746291.75 | 49.46854  | (13090718) |
| 416459.69 | 3746291.75 | 48.35068  | (13090718) | 416466.23 | 3746288.87 | 47.41518  | (13090718) |
| 416481.65 | 3746287.04 | 45.84145  | (13090718) | 416485.31 | 3746291.23 | 45.89247  | (13090718) |
| 416499.95 | 3746290.96 | 44.54677  | (13090718) | 416505.44 | 3746288.35 | 43.89151  | (13090718) |
| 416520.34 | 3746287.31 | 42.56832  | (13090718) | 416525.57 | 3746291.23 | 42.31339  | (13090718) |
| 416540.99 | 3746294.62 | 41.06659  | (13090718) | 416545.17 | 3746289.92 | 40.62322  | (13090718) |
| 416557.98 | 3746293.58 | 39.61464  | (13090718) | 416562.95 | 3746288.35 | 39.15997  | (13090718) |
| 416578.63 | 3746286.26 | 37.92355  | (13090718) | 416580.72 | 3746290.18 | 37.78316  | (13090718) |
| 416595.36 | 3746289.13 | 36.66976  | (13090718) | 416600.85 | 3746291.49 | 36.41490  | (16071319) |
| 416614.97 | 3746286.52 | 35.29459  | (16071319) | 416619.15 | 3746289.66 | 35.16396  | (16071319) |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

SLINE3 \*\*\*

INCLUDING SOURCE(S): L0000066 , L0000067 , L0000068 , L0000069 , L0000070 ,  
L0000071 , L0000072 , L0000073 , L0000074 , L0000075 , L0000076 , L0000077 , L0000078 ,  
L0000079 , L0000080 , L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 ,  
L0000087 , L0000088 , L0000089 , L0000090 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3

\*\*

| X-COORD (M) | Y-COORD (M) | CONC     | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC     | (YYMMDDHH) |
|-------------|-------------|----------|------------|-------------|-------------|----------|------------|
| 416629.34   | 3746289.40  | 34.52055 | (16071319) | 416637.18   | 3746292.53  | 34.10819 | (16071319) |
| 416649.99   | 3746292.27  | 33.31319 | (16071319) | 416655.48   | 3746286.52  | 32.88626 | (16071319) |
| 416669.34   | 3746284.43  | 32.05810 | (16071319) | 416672.73   | 3746287.83  | 31.92588 | (16071319) |

|           |            |           |            |           |            |           |            |
|-----------|------------|-----------|------------|-----------|------------|-----------|------------|
| 416686.33 | 3746289.13 | 31.17241  | (16071319) | 416691.03 | 3746287.83 | 30.90839  | (16071319) |
| 416703.58 | 3746287.83 | 30.22931  | (16071319) | 416709.07 | 3746290.18 | 29.92383  | (16071319) |
| 416725.01 | 3746283.65 | 29.12254  | (16071319) | 416718.22 | 3746289.66 | 29.45873  | (13033018) |
| 416727.89 | 3746288.09 | 28.95402  | (16071319) | 416740.17 | 3746287.57 | 28.41802  | (13033018) |
| 416745.93 | 3746284.43 | 28.08845  | (16071319) | 416761.09 | 3746284.43 | 27.38657  | (13033018) |
| 416764.75 | 3746287.04 | 27.47026  | (13033018) | 416777.29 | 3746286.52 | 26.98505  | (13033018) |
| 416782.78 | 3746288.09 | 26.90621  | (13033018) | 416572.62 | 3746354.48 | 42.57591  | (12070919) |
| 416583.60 | 3746355.01 | 41.66935  | (12070919) | 416576.54 | 3746367.55 | 43.05573  | (12070919) |
| 416582.81 | 3746368.86 | 42.51723  | (12070919) | 416586.21 | 3746371.48 | 42.26071  | (12070919) |
| 416587.26 | 3746353.70 | 41.24718  | (12070919) | 416600.07 | 3746355.53 | 40.34073  | (12070919) |
| 416605.03 | 3746368.08 | 40.54478  | (12070919) | 416612.61 | 3746375.66 | 39.96045  | (12070919) |
| 416608.95 | 3746356.58 | 39.70343  | (12070919) | 416621.76 | 3746357.62 | 38.77199  | (12070919) |
| 416622.28 | 3746371.74 | 39.17348  | (12070919) | 416625.68 | 3746370.95 | 38.89722  | (12070919) |
| 416640.32 | 3746372.26 | 37.76569  | (12070919) | 416625.94 | 3746355.27 | 38.31407  | (12070919) |
| 416635.62 | 3746355.53 | 37.62048  | (12070919) | 416641.89 | 3746373.31 | 37.64397  | (12070919) |
| 416654.17 | 3746374.35 | 36.72569  | (12070919) | 416643.20 | 3746360.50 | 37.31936  | (12070919) |
| 416652.61 | 3746360.50 | 36.64980  | (12070919) | 416656.79 | 3746375.40 | 36.52301  | (12070919) |
| 416663.59 | 3746375.40 | 36.03729  | (12070919) | 416658.10 | 3746356.31 | 36.09131  | (12070919) |
| 416668.29 | 3746357.36 | 35.45915  | (12070919) | 416672.21 | 3746353.18 | 35.00330  | (12070919) |
| 416676.92 | 3746353.18 | 34.70495  | (12070919) | 416731.81 | 3746458.47 | 32.48808  | (12090318) |
| 416731.03 | 3746466.83 | 31.66901  | (12090318) | 416742.01 | 3746473.63 | 30.87796  | (13100917) |
| 416731.03 | 3746411.68 | 33.55203  | (12090318) | 416731.03 | 3746425.01 | 33.94066  | (12090318) |
| 416681.62 | 3746375.61 | 34.79650  | (12070919) | 416698.09 | 3746375.87 | 33.72154  | (12070919) |
| 416703.58 | 3746376.65 | 33.36038  | (12070919) | 416703.58 | 3746357.83 | 33.26888  | (12070919) |
| 416714.56 | 3746373.51 | 32.74616  | (12070919) | 416723.97 | 3746372.99 | 32.19702  | (12070919) |
| 416749.85 | 3746377.17 | 30.65908  | (12070919) | 416759.00 | 3746375.34 | 30.21390  | (12070919) |
| 416774.16 | 3746375.34 | 29.43254  | (12070919) | 416758.21 | 3746413.77 | 32.01675  | (12090318) |
| 416756.65 | 3746428.41 | 32.43007  | (12090318) | 416751.16 | 3746474.68 | 30.34419  | (13100917) |
| 416781.48 | 3746473.63 | 28.65135  | (12090318) | 416756.38 | 3746455.59 | 31.44908  | (12090318) |
| 416773.90 | 3746452.98 | 30.74815  | (12090318) | 416140.28 | 3746195.97 | 65.14464  | (13122322) |
| 416158.30 | 3746194.91 | 62.15428  | (16122705) | 416172.61 | 3746195.44 | 59.58096  | (13021504) |
| 416190.09 | 3746196.50 | 56.59515  | (14051205) | 416220.03 | 3746195.97 | 53.21924  | (13060506) |
| 416239.64 | 3746195.17 | 50.73888  | (13060506) | 416250.77 | 3746195.17 | 49.13547  | (14100319) |
| 416267.19 | 3746194.91 | 48.35774  | (14100319) | 416086.50 | 3746243.39 | 108.69883 | (13091107) |
| 416067.16 | 3746248.16 | 126.52326 | (13091107) | 416057.36 | 3746252.67 | 127.00915 | (13091107) |
| 416049.67 | 3746254.52 | 122.68272 | (13091107) | 416043.58 | 3746258.23 | 119.98908 | (13091107) |
| 416038.28 | 3746258.76 | 115.86638 | (13091107) | 416032.45 | 3746255.32 | 111.13574 | (13122324) |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

SLINE3 \*\*\*

INCLUDING SOURCE(S): L0000066 , L0000067 , L0000068 , L0000069 , L0000070 ,  
L0000071 , L0000072 , L0000073 , L0000074 , L0000075 , L0000076 , L0000077 , L0000078 ,  
L0000079 , L0000080 , L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 ,  
L0000087 , L0000088 , L0000089 , L0000090 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3

\*\*

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|-------------|-------------|------|------------|-------------|-------------|------|------------|
|-------------|-------------|------|------------|-------------|-------------|------|------------|

|           |            |           |            |           |            |           |            |
|-----------|------------|-----------|------------|-----------|------------|-----------|------------|
| 416026.09 | 3746256.91 | 113.30625 | (14042921) | 416013.38 | 3746259.03 | 119.21487 | (16112908) |
| 416008.87 | 3746260.88 | 122.39248 | (16112908) | 416004.90 | 3746261.94 | 124.11155 | (16112908) |
| 415999.33 | 3746267.24 | 129.39157 | (16112908) | 415984.76 | 3746268.03 | 130.88055 | (15021808) |
| 415970.45 | 3746270.42 | 133.84000 | (15021808) | 415958.53 | 3746270.68 | 135.64062 | (15012824) |
| 415946.61 | 3746271.21 | 137.57180 | (15012824) | 415936.81 | 3746273.07 | 140.87579 | (12121922) |
| 415924.09 | 3746272.80 | 143.43800 | (15112808) | 415913.49 | 3746272.01 | 144.48421 | (15112808) |
| 415899.45 | 3746273.33 | 148.53022 | (15112808) | 415883.29 | 3746274.92 | 154.94301 | (15050803) |
| 415892.30 | 3746272.01 | 147.27957 | (15112808) | 415864.21 | 3746276.25 | 161.81991 | (15050803) |
| 415856.79 | 3746275.98 | 163.08980 | (16122701) | 415843.81 | 3746275.19 | 164.21654 | (16122701) |
| 415834.27 | 3746274.66 | 164.25764 | (16122701) | 415821.55 | 3746275.72 | 167.06048 | (13092207) |
| 415809.63 | 3746274.39 | 163.81334 | (15112201) | 415797.44 | 3746276.78 | 170.75829 | (15031218) |
| 415787.11 | 3746276.25 | 169.49883 | (15031218) |           |            |           |            |

\*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:  
SLINE4 \*\*\*

INCLUDING SOURCE(S): L0000091 , L0000092 , L0000093 , L0000094 , L0000095 ,  
L0000096 , L0000097 , L0000098 , L0000099 , L0000100 , L0000101 , L0000102 , L0000103 ,  
L0000104 , L0000105 , L0000106 , L0000107 , L0000108 , L0000109 , L0000110 , L0000111 ,  
L0000112 , L0000113 , L0000114 , L0000115 , L0000116 , L0000117 , L0000118 , ... ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC      | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC      | (YYMMDDHH) |
|-------------|-------------|-----------|------------|-------------|-------------|-----------|------------|
| 416018.79   | 3746204.83  | 148.28444 | (15021808) | 416068.79   | 3746204.83  | 215.46996 | (13091107) |
| 416118.79   | 3746204.83  | 244.28713 | (13091107) | 416168.79   | 3746204.83  | 139.28789 | (15060919) |
| 416218.79   | 3746204.83  | 115.60708 | (15112508) | 416268.79   | 3746204.83  | 94.33947  | (15112508) |
| 416318.79   | 3746204.83  | 75.85820  | (13032418) | 416368.79   | 3746204.83  | 64.09129  | (13032418) |
| 416418.79   | 3746204.83  | 55.53066  | (13090718) | 416468.79   | 3746204.83  | 48.44851  | (13090718) |
| 416518.79   | 3746204.83  | 42.63201  | (13090718) | 416018.79   | 3746254.83  | 329.68686 | (12061706) |
| 416068.79   | 3746254.83  | 258.48152 | (15112508) | 416118.79   | 3746254.83  | 419.26880 | (13091107) |
| 416168.79   | 3746254.83  | 259.27954 | (12090518) | 416218.79   | 3746254.83  | 154.84719 | (13033018) |
| 416268.79   | 3746254.83  | 111.72754 | (13033018) | 416318.79   | 3746254.83  | 87.08067  | (13033018) |
| 416368.79   | 3746254.83  | 71.08465  | (13033018) | 416418.79   | 3746254.83  | 59.87690  | (13033018) |
| 416468.79   | 3746254.83  | 51.60814  | (13033018) | 416518.79   | 3746254.83  | 45.27191  | (13033018) |
| 416018.79   | 3746304.83  | 289.48603 | (12061706) | 416068.79   | 3746304.83  | 268.34865 | (12061706) |
| 416118.79   | 3746304.83  | 360.71725 | (13091107) | 416168.79   | 3746304.83  | 224.03182 | (15032718) |
| 416218.79   | 3746304.83  | 150.95292 | (13100917) | 416268.79   | 3746304.83  | 114.31691 | (12090318) |
| 416318.79   | 3746304.83  | 91.21752  | (12090318) | 416368.79   | 3746304.83  | 75.00460  | (12090318) |
| 416418.79   | 3746304.83  | 63.13956  | (12090318) | 416468.79   | 3746304.83  | 54.16469  | (12090318) |
| 416518.79   | 3746304.83  | 47.18644  | (12090318) | 416018.79   | 3746354.83  | 138.63408 | (12061706) |
| 416068.79   | 3746354.83  | 183.55988 | (12061706) | 416118.79   | 3746354.83  | 329.20685 | (16063006) |
| 416168.79   | 3746354.83  | 196.92870 | (14090718) | 416218.79   | 3746354.83  | 131.46929 | (14090718) |
| 416268.79   | 3746354.83  | 105.16817 | (15032718) | 416318.79   | 3746354.83  | 86.50646  | (15032718) |
| 416368.79   | 3746354.83  | 71.99303  | (13100917) | 416418.79   | 3746354.83  | 61.31616  | (13100917) |
| 416468.79   | 3746354.83  | 52.36882  | (13100917) | 416518.79   | 3746354.83  | 45.56884  | (12090318) |
| 416018.79   | 3746404.83  | 100.05942 | (12061706) | 416068.79   | 3746404.83  | 155.15142 | (12061706) |

|           |            |           |            |           |            |           |            |
|-----------|------------|-----------|------------|-----------|------------|-----------|------------|
| 416118.79 | 3746404.83 | 385.12701 | (13091107) | 416168.79 | 3746404.83 | 181.64511 | (14041018) |
| 416218.79 | 3746404.83 | 124.33731 | (14090718) | 416268.79 | 3746404.83 | 97.01714  | (14090718) |
| 416318.79 | 3746404.83 | 76.76216  | (12012617) | 416368.79 | 3746404.83 | 66.30087  | (15032718) |
| 416418.79 | 3746404.83 | 59.37329  | (15032718) | 416468.79 | 3746404.83 | 52.81531  | (15032718) |
| 416518.79 | 3746404.83 | 46.64230  | (15032718) | 416018.79 | 3746454.83 | 80.40630  | (13021508) |
| 416068.79 | 3746454.83 | 127.48544 | (16092307) | 416118.79 | 3746454.83 | 303.08870 | (16063006) |
| 416168.79 | 3746454.83 | 240.78716 | (12061706) | 416218.79 | 3746454.83 | 112.62433 | (14090718) |
| 416268.79 | 3746454.83 | 89.74443  | (14090718) | 416318.79 | 3746454.83 | 76.29007  | (14090718) |
| 416368.79 | 3746454.83 | 64.46503  | (14090718) | 416418.79 | 3746454.83 | 54.45938  | (13102217) |
| 416468.79 | 3746454.83 | 47.41729  | (15032718) | 416518.79 | 3746454.83 | 44.16543  | (15032718) |
| 416018.79 | 3746504.83 | 72.51989  | (13062306) | 416068.79 | 3746504.83 | 112.84392 | (12022608) |
| 416118.79 | 3746504.83 | 268.10661 | (16063006) | 416168.79 | 3746504.83 | 239.40884 | (12121216) |
| 416218.79 | 3746504.83 | 120.74299 | (13062919) | 416268.79 | 3746504.83 | 87.36337  | (14090718) |
| 416318.79 | 3746504.83 | 72.41746  | (14090718) | 416368.79 | 3746504.83 | 63.44962  | (14090718) |
| 416418.79 | 3746504.83 | 55.93559  | (14090718) | 416468.79 | 3746504.83 | 48.18603  | (14090718) |
| 416518.79 | 3746504.83 | 42.41924  | (13102217) | 416018.79 | 3746554.83 | 69.34482  | (13062306) |
| 416068.79 | 3746554.83 | 96.32560  | (13021908) | 416118.79 | 3746554.83 | 133.09411 | (16063006) |

\*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

SLINE4 \*\*\*

INCLUDING SOURCE(S): L0000091 , L0000092 , L0000093 , L0000094 , L0000095 ,  
 L0000096 , L0000097 , L0000098 , L0000099 , L0000100 , L0000101 , L0000102 , L0000103 ,  
 L0000104 , L0000105 , L0000106 , L0000107 , L0000108 , L0000109 , L0000110 , L0000111 ,  
 L0000112 , L0000113 , L0000114 , L0000115 , L0000116 , L0000117 , L0000118 , ... ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3

\*\*

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC |
|-------------|-------------|------|------------|-------------|-------------|------|
|-------------|-------------|------|------------|-------------|-------------|------|

|           |            |           |            |           |            |           |            |
|-----------|------------|-----------|------------|-----------|------------|-----------|------------|
| 416168.79 | 3746554.83 | 151.93691 | (12121216) | 416218.79 | 3746554.83 | 105.60787 | (13070119) |
| 416268.79 | 3746554.83 | 82.92607  | (12013017) | 416318.79 | 3746554.83 | 66.44024  | (13062919) |
| 416368.79 | 3746554.83 | 57.23875  | (13062919) | 416418.79 | 3746554.83 | 52.79936  | (14090718) |
| 416468.79 | 3746554.83 | 48.58093  | (14090718) | 416518.79 | 3746554.83 | 43.69358  | (14090718) |
| 416018.79 | 3746604.83 | 61.92963  | (12022608) | 416068.79 | 3746604.83 | 77.14542  | (16061306) |
| 416118.79 | 3746604.83 | 90.37532  | (14052906) | 416168.79 | 3746604.83 | 96.60732  | (16102717) |
| 416218.79 | 3746604.83 | 88.29208  | (14012817) | 416268.79 | 3746604.83 | 74.37953  | (13021017) |
| 416318.79 | 3746604.83 | 63.58930  | (12013017) | 416368.79 | 3746604.83 | 54.40552  | (15070719) |
| 416418.79 | 3746604.83 | 48.19154  | (13062919) | 416468.79 | 3746604.83 | 42.70863  | (15062719) |
| 416518.79 | 3746604.83 | 41.11902  | (14090718) | 416018.79 | 3746654.83 | 54.59256  | (13021908) |
| 416068.79 | 3746654.83 | 62.40183  | (13051706) | 416118.79 | 3746654.83 | 69.44344  | (13062406) |
| 416168.79 | 3746654.83 | 73.52422  | (16102717) | 416218.79 | 3746654.83 | 72.41210  | (14102417) |
| 416268.79 | 3746654.83 | 63.96542  | (14020617) | 416318.79 | 3746654.83 | 58.39605  | (13021017) |
| 416368.79 | 3746654.83 | 51.39900  | (12013017) | 416418.79 | 3746654.83 | 45.52628  | (15070719) |
| 416468.79 | 3746654.83 | 40.40708  | (13062919) | 416518.79 | 3746654.83 | 37.47976  | (13062919) |
| 416018.79 | 3746704.83 | 47.33190  | (13052406) | 416068.79 | 3746704.83 | 52.00264  | (13051706) |
| 416118.79 | 3746704.83 | 56.59301  | (13062406) | 416168.79 | 3746704.83 | 59.20374  | (14052806) |
| 416218.79 | 3746704.83 | 59.41313  | (14102417) | 416268.79 | 3746704.83 | 55.88413  | (14012817) |
| 416318.79 | 3746704.83 | 49.92633  | (13070119) | 416368.79 | 3746704.83 | 48.03544  | (13021017) |

|           |            |           |            |           |            |           |            |
|-----------|------------|-----------|------------|-----------|------------|-----------|------------|
| 416418.79 | 3746704.83 | 42.96987  | (12013017) | 416468.79 | 3746704.83 | 38.78462  | (15070719) |
| 416518.79 | 3746704.83 | 34.69849  | (12112517) | 416302.62 | 3746499.91 | 76.68427  | (14090718) |
| 416312.84 | 3746498.80 | 74.23585  | (14090718) | 416322.84 | 3746499.46 | 71.97951  | (14090718) |
| 416332.84 | 3746498.80 | 70.02073  | (14090718) | 416342.39 | 3746499.24 | 68.21548  | (14090718) |
| 416190.87 | 3746435.25 | 141.35855 | (12012517) | 416189.75 | 3746447.47 | 142.00040 | (12013017) |
| 416301.03 | 3746253.85 | 94.35307  | (13033018) | 416335.27 | 3746290.44 | 84.61300  | (12090318) |
| 416331.87 | 3746279.46 | 83.73329  | (12070919) | 416361.93 | 3746288.35 | 75.22582  | (12090318) |
| 416370.04 | 3746286.52 | 72.37423  | (12090318) | 416384.15 | 3746286.52 | 68.51389  | (12090318) |
| 416388.59 | 3746285.74 | 67.17049  | (12090318) | 416400.10 | 3746294.10 | 66.13191  | (12090318) |
| 416406.37 | 3746294.62 | 64.76881  | (12090318) | 416409.51 | 3746291.23 | 63.46931  | (12090318) |
| 416422.31 | 3746291.23 | 60.73456  | (12090318) | 416428.85 | 3746288.87 | 58.93366  | (12090318) |
| 416444.80 | 3746287.83 | 55.86779  | (12070919) | 416448.19 | 3746291.75 | 55.89547  | (12090318) |
| 416459.69 | 3746291.75 | 53.92251  | (12090318) | 416466.23 | 3746288.87 | 52.50669  | (12070919) |
| 416481.65 | 3746287.04 | 50.46893  | (12070919) | 416485.31 | 3746291.23 | 49.84981  | (12090318) |
| 416499.95 | 3746290.96 | 47.90947  | (12070919) | 416505.44 | 3746288.35 | 47.39621  | (12070919) |
| 416520.34 | 3746287.31 | 45.72587  | (12070919) | 416525.57 | 3746291.23 | 44.97403  | (12070919) |
| 416540.99 | 3746294.62 | 43.32158  | (12090318) | 416545.17 | 3746289.92 | 43.01733  | (12070919) |
| 416557.98 | 3746293.58 | 41.62207  | (12070919) | 416562.95 | 3746288.35 | 41.37781  | (12070919) |
| 416578.63 | 3746286.26 | 40.02976  | (12070919) | 416580.72 | 3746290.18 | 39.74622  | (12070919) |
| 416595.36 | 3746289.13 | 38.56474  | (12070919) | 416600.85 | 3746291.49 | 38.05783  | (12070919) |
| 416614.97 | 3746286.52 | 37.09332  | (12070919) | 416619.15 | 3746289.66 | 36.72034  | (12070919) |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

SLINE4 \*\*\*

INCLUDING SOURCE(S): L0000091 , L0000092 , L0000093 , L0000094 , L0000095 ,  
L0000096 , L0000097 , L0000098 , L0000099 , L0000100 , L0000101 , L0000102 , L0000103 ,  
L0000104 , L0000105 , L0000106 , L0000107 , L0000108 , L0000109 , L0000110 , L0000111 ,  
L0000112 , L0000113 , L0000114 , L0000115 , L0000116 , L0000117 , L0000118 , ... ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3

\*\*

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|-------------|-------------|------|------------|-------------|-------------|------|------------|
|-------------|-------------|------|------------|-------------|-------------|------|------------|

|           |            |          |            |           |            |          |            |
|-----------|------------|----------|------------|-----------|------------|----------|------------|
| 416629.34 | 3746289.40 | 35.99092 | (12070919) | 416637.18 | 3746292.53 | 35.36453 | (12070919) |
| 416649.99 | 3746292.27 | 34.51464 | (12070919) | 416655.48 | 3746286.52 | 34.26618 | (12070919) |
| 416669.34 | 3746284.43 | 33.40449 | (12070919) | 416672.73 | 3746287.83 | 33.16502 | (12070919) |
| 416686.33 | 3746289.13 | 32.33590 | (12070919) | 416691.03 | 3746287.83 | 32.08165 | (12070919) |
| 416703.58 | 3746287.83 | 31.37527 | (12070919) | 416709.07 | 3746290.18 | 31.04392 | (12070919) |
| 416725.01 | 3746283.65 | 30.25578 | (12070919) | 416718.22 | 3746289.66 | 30.56388 | (12070919) |
| 416727.89 | 3746288.09 | 30.08168 | (12070919) | 416740.17 | 3746287.57 | 29.47035 | (12070919) |
| 416745.93 | 3746284.43 | 29.20638 | (12070919) | 416761.09 | 3746284.43 | 28.48715 | (12070919) |
| 416764.75 | 3746287.04 | 28.30617 | (12070919) | 416777.29 | 3746286.52 | 27.74465 | (12070919) |
| 416782.78 | 3746288.09 | 27.49255 | (12070919) | 416572.62 | 3746354.48 | 41.12904 | (12090318) |
| 416583.60 | 3746355.01 | 40.25258 | (12090318) | 416576.54 | 3746367.55 | 39.57606 | (13100917) |
| 416582.81 | 3746368.86 | 39.06249 | (13100917) | 416586.21 | 3746371.48 | 38.98956 | (13100917) |
| 416587.26 | 3746353.70 | 40.08511 | (12090318) | 416600.07 | 3746355.53 | 39.01708 | (12090318) |
| 416605.03 | 3746368.08 | 37.58746 | (12090318) | 416612.61 | 3746375.66 | 36.84468 | (13100917) |
| 416608.95 | 3746356.58 | 38.32203 | (12090318) | 416621.76 | 3746357.62 | 37.39012 | (12090318) |

|           |            |           |            |           |            |           |            |
|-----------|------------|-----------|------------|-----------|------------|-----------|------------|
| 416622.28 | 3746371.74 | 36.18379  | (12090318) | 416625.68 | 3746370.95 | 36.06092  | (12090318) |
| 416640.32 | 3746372.26 | 35.10640  | (12090318) | 416625.94 | 3746355.27 | 37.26517  | (12090318) |
| 416635.62 | 3746355.53 | 36.61902  | (12090318) | 416641.89 | 3746373.31 | 34.92522  | (12090318) |
| 416654.17 | 3746374.35 | 34.16920  | (12090318) | 416643.20 | 3746360.50 | 35.84511  | (12090318) |
| 416652.61 | 3746360.50 | 35.27962  | (12090318) | 416656.79 | 3746375.40 | 33.93988  | (12090318) |
| 416663.59 | 3746375.40 | 33.58653  | (12090318) | 416658.10 | 3746356.31 | 35.17876  | (12090318) |
| 416668.29 | 3746357.36 | 34.52452  | (12090318) | 416672.21 | 3746353.18 | 34.46737  | (12090318) |
| 416676.92 | 3746353.18 | 34.19003  | (12090318) | 416731.81 | 3746458.47 | 30.64167  | (15032718) |
| 416731.03 | 3746466.83 | 30.84529  | (15032718) | 416742.01 | 3746473.63 | 30.31203  | (15032718) |
| 416731.03 | 3746411.68 | 30.46773  | (13100917) | 416731.03 | 3746425.01 | 30.87209  | (13100917) |
| 416681.62 | 3746375.61 | 32.65837  | (12090318) | 416698.09 | 3746375.87 | 31.83864  | (12090318) |
| 416703.58 | 3746376.65 | 31.52363  | (12090318) | 416703.58 | 3746357.83 | 32.53931  | (12090318) |
| 416714.56 | 3746373.51 | 31.21726  | (12090318) | 416723.97 | 3746372.99 | 30.81131  | (12090318) |
| 416749.85 | 3746377.17 | 29.42895  | (12090318) | 416759.00 | 3746375.34 | 29.14162  | (12090318) |
| 416774.16 | 3746375.34 | 28.51412  | (12090318) | 416758.21 | 3746413.77 | 28.99226  | (13100917) |
| 416756.65 | 3746428.41 | 29.56195  | (13100917) | 416751.16 | 3746474.68 | 29.85176  | (15032718) |
| 416781.48 | 3746473.63 | 28.31904  | (15032718) | 416756.38 | 3746455.59 | 29.41471  | (13100917) |
| 416773.90 | 3746452.98 | 28.74479  | (13100917) | 416140.28 | 3746195.97 | 166.88985 | (13122322) |
| 416158.30 | 3746194.91 | 141.54780 | (13041207) | 416172.61 | 3746195.44 | 122.79551 | (15060919) |
| 416190.09 | 3746196.50 | 118.23900 | (15060919) | 416220.03 | 3746195.97 | 107.66813 | (12090419) |
| 416239.64 | 3746195.17 | 99.21292  | (12090419) | 416250.77 | 3746195.17 | 95.50927  | (15112508) |
| 416267.19 | 3746194.91 | 90.52155  | (15112508) | 416086.50 | 3746243.39 | 226.86809 | (12061706) |
| 416067.16 | 3746248.16 | 308.54590 | (12061706) | 416057.36 | 3746252.67 | 311.67422 | (12061706) |
| 416049.67 | 3746254.52 | 233.70772 | (15112508) | 416043.58 | 3746258.23 | 321.55733 | (12061706) |
| 416038.28 | 3746258.76 | 322.74050 | (12061706) | 416032.45 | 3746255.32 | 371.93223 | (12061706) |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

SLINE4 \*\*\*

INCLUDING SOURCE(S): L0000091 , L0000092 , L0000093 , L0000094 , L0000095 ,  
 L0000096 , L0000097 , L0000098 , L0000099 , L0000100 , L0000101 , L0000102 , L0000103 ,  
 L0000104 , L0000105 , L0000106 , L0000107 , L0000108 , L0000109 , L0000110 , L0000111 ,  
 L0000112 , L0000113 , L0000114 , L0000115 , L0000116 , L0000117 , L0000118 , ... ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3

\*\*

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|-------------|-------------|------|------------|-------------|-------------|------|------------|
|-------------|-------------|------|------------|-------------|-------------|------|------------|

|           |            |           |            |           |            |           |            |
|-----------|------------|-----------|------------|-----------|------------|-----------|------------|
| 416026.09 | 3746256.91 | 373.64919 | (12061706) | 416013.38 | 3746259.03 | 367.49738 | (12061706) |
| 416008.87 | 3746260.88 | 287.62922 | (12061706) | 416004.90 | 3746261.94 | 293.28893 | (12061706) |
| 415999.33 | 3746267.24 | 240.71384 | (12090518) | 415984.76 | 3746268.03 | 244.44284 | (16092307) |
| 415970.45 | 3746270.42 | 320.76731 | (12061706) | 415958.53 | 3746270.68 | 313.98420 | (12061706) |
| 415946.61 | 3746271.21 | 247.08704 | (16092307) | 415936.81 | 3746273.07 | 309.46744 | (12061706) |
| 415924.09 | 3746272.80 | 240.89208 | (16092307) | 415913.49 | 3746272.01 | 291.46457 | (12061706) |
| 415899.45 | 3746273.33 | 282.12425 | (16061606) | 415883.29 | 3746274.92 | 288.77666 | (16061606) |
| 415892.30 | 3746272.01 | 280.82207 | (12061706) | 415864.21 | 3746276.25 | 285.98347 | (16061606) |
| 415856.79 | 3746275.98 | 274.64480 | (12061706) | 415843.81 | 3746275.19 | 266.31659 | (16061606) |
| 415834.27 | 3746274.66 | 322.46882 | (13091107) | 415821.55 | 3746275.72 | 319.16990 | (13091107) |
| 415809.63 | 3746274.39 | 292.80374 | (13091107) | 415797.44 | 3746276.78 | 290.97500 | (13091107) |

415787.11 3746276.25 249.30994 (16061606)  
\*\*\* AERMOD - VERSION 19191 \*\*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23  
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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

SLINE5 \*\*\*

INCLUDING SOURCE(S): L0000124 , L0000125 , L0000126 , L0000127 , L0000128 ,  
L0000129 , L0000130 , L0000131 , L0000132 , L0000133 , L0000134 , L0000135 , L0000136 ,  
L0000137 , L0000138 , L0000139 , L0000140 , L0000141 , L0000142 , L0000143 , L0000144 ,  
L0000145 , L0000146 , L0000147 , L0000148 , L0000149 , L0000150 , L0000151 , ... ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC |
|-------------|-------------|------|------------|-------------|-------------|------|
|-------------|-------------|------|------------|-------------|-------------|------|

|           |            |           |            |           |            |                      |
|-----------|------------|-----------|------------|-----------|------------|----------------------|
| 416018.79 | 3746204.83 | 84.49202  | (12112108) | 416068.79 | 3746204.83 | 97.92913 (15031218)  |
| 416118.79 | 3746204.83 | 161.49052 | (13091107) | 416168.79 | 3746204.83 | 131.57782 (13041207) |
| 416218.79 | 3746204.83 | 97.69272  | (13060506) | 416268.79 | 3746204.83 | 82.60659 (16020908)  |
| 416318.79 | 3746204.83 | 75.13685  | (15060919) | 416368.79 | 3746204.83 | 70.07369 (15060919)  |
| 416418.79 | 3746204.83 | 66.97014  | (15060919) | 416468.79 | 3746204.83 | 64.09000 (15060919)  |
| 416518.79 | 3746204.83 | 61.29599  | (14120717) | 416018.79 | 3746254.83 | 111.96871 (16092307) |
| 416068.79 | 3746254.83 | 172.66304 | (16061606) | 416118.79 | 3746254.83 | 183.57680 (16061606) |
| 416168.79 | 3746254.83 | 208.40974 | (12112108) | 416218.79 | 3746254.83 | 231.49914 (12061706) |
| 416268.79 | 3746254.83 | 158.37960 | (12061706) | 416318.79 | 3746254.83 | 132.96932 (12061706) |
| 416368.79 | 3746254.83 | 118.84523 | (12061706) | 416418.79 | 3746254.83 | 108.80384 (12061706) |
| 416468.79 | 3746254.83 | 103.52441 | (12061706) | 416518.79 | 3746254.83 | 100.91958 (12061706) |
| 416018.79 | 3746304.83 | 106.44160 | (14092807) | 416068.79 | 3746304.83 | 148.24743 (13021508) |
| 416118.79 | 3746304.83 | 147.09362 | (13091107) | 416168.79 | 3746304.83 | 171.21635 (12061706) |
| 416218.79 | 3746304.83 | 189.81354 | (12061706) | 416268.79 | 3746304.83 | 199.06598 (12111608) |
| 416318.79 | 3746304.83 | 188.18906 | (12111608) | 416368.79 | 3746304.83 | 189.32252 (13100917) |
| 416418.79 | 3746304.83 | 160.45892 | (12090318) | 416468.79 | 3746304.83 | 191.22055 (16092307) |
| 416518.79 | 3746304.83 | 190.53396 | (12090318) | 416018.79 | 3746354.83 | 90.19791 (15051606)  |
| 416068.79 | 3746354.83 | 126.27584 | (15051606) | 416118.79 | 3746354.83 | 209.96210 (13091107) |
| 416168.79 | 3746354.83 | 127.84157 | (12061706) | 416218.79 | 3746354.83 | 99.76469 (12061706)  |
| 416268.79 | 3746354.83 | 98.11723  | (12061706) | 416318.79 | 3746354.83 | 101.88583 (12061706) |
| 416368.79 | 3746354.83 | 107.33653 | (12061706) | 416418.79 | 3746354.83 | 113.51745 (12061706) |
| 416468.79 | 3746354.83 | 116.19289 | (12061706) | 416518.79 | 3746354.83 | 115.64772 (12061706) |
| 416018.79 | 3746404.83 | 81.20557  | (14032807) | 416068.79 | 3746404.83 | 112.95910 (12021208) |
| 416118.79 | 3746404.83 | 186.65082 | (16063006) | 416168.79 | 3746404.83 | 118.41559 (12061706) |
| 416218.79 | 3746404.83 | 77.61300  | (12061706) | 416268.79 | 3746404.83 | 66.05175 (12061706)  |
| 416318.79 | 3746404.83 | 62.83557  | (12061706) | 416368.79 | 3746404.83 | 62.24545 (12061706)  |
| 416418.79 | 3746404.83 | 62.33059  | (12061706) | 416468.79 | 3746404.83 | 63.78336 (13062919)  |
| 416518.79 | 3746404.83 | 66.93762  | (14090718) | 416018.79 | 3746454.83 | 74.75540 (14032807)  |
| 416068.79 | 3746454.83 | 107.00776 | (14032807) | 416118.79 | 3746454.83 | 220.97545 (16063006) |
| 416168.79 | 3746454.83 | 109.61233 | (12061706) | 416218.79 | 3746454.83 | 72.48937 (12090318)  |
| 416268.79 | 3746454.83 | 51.00353  | (12061706) | 416318.79 | 3746454.83 | 46.09400 (12061706)  |
| 416368.79 | 3746454.83 | 44.13006  | (12061706) | 416418.79 | 3746454.83 | 44.28021 (12013017)  |
| 416468.79 | 3746454.83 | 45.22954  | (12012517) | 416518.79 | 3746454.83 | 46.09608 (13062919)  |
| 416018.79 | 3746504.83 | 66.34612  | (12113008) | 416068.79 | 3746504.83 | 92.19947 (13062306)  |
| 416118.79 | 3746504.83 | 170.23637 | (16063006) | 416168.79 | 3746504.83 | 139.90720 (12121216) |

|           |            |          |            |           |            |          |            |
|-----------|------------|----------|------------|-----------|------------|----------|------------|
| 416218.79 | 3746504.83 | 70.09600 | (13062919) | 416268.79 | 3746504.83 | 48.93202 | (14090718) |
| 416318.79 | 3746504.83 | 37.26704 | (14090718) | 416368.79 | 3746504.83 | 34.31081 | (13070119) |
| 416418.79 | 3746504.83 | 34.93300 | (13021017) | 416468.79 | 3746504.83 | 35.32474 | (12013017) |
| 416518.79 | 3746504.83 | 35.59057 | (12012517) | 416018.79 | 3746554.83 | 57.68655 | (13062306) |
| 416068.79 | 3746554.83 | 74.29440 | (13021908) | 416118.79 | 3746554.83 | 87.36770 | (14052906) |

\*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*

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PAGE 81

\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

SLINE5 \*\*\*

INCLUDING SOURCE(S): L0000124 , L0000125 , L0000126 , L0000127 , L0000128 ,  
L0000129 , L0000130 , L0000131 , L0000132 , L0000133 , L0000134 , L0000135 , L0000136 ,  
L0000137 , L0000138 , L0000139 , L0000140 , L0000141 , L0000142 , L0000143 , L0000144 ,  
L0000145 , L0000146 , L0000147 , L0000148 , L0000149 , L0000150 , L0000151 , ... ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3

\*\*

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC |
|-------------|-------------|------|------------|-------------|-------------|------|
|-------------|-------------|------|------------|-------------|-------------|------|

|           |            |           |            |           |            |           |            |
|-----------|------------|-----------|------------|-----------|------------|-----------|------------|
| 416168.79 | 3746554.83 | 89.39434  | (12121216) | 416218.79 | 3746554.83 | 59.78838  | (13070119) |
| 416268.79 | 3746554.83 | 44.09200  | (12013017) | 416318.79 | 3746554.83 | 35.12698  | (13062919) |
| 416368.79 | 3746554.83 | 30.26877  | (14090718) | 416418.79 | 3746554.83 | 29.01639  | (13021017) |
| 416468.79 | 3746554.83 | 29.28008  | (13021017) | 416518.79 | 3746554.83 | 29.30601  | (12013017) |
| 416018.79 | 3746604.83 | 50.56818  | (12022608) | 416068.79 | 3746604.83 | 57.89794  | (13052406) |
| 416118.79 | 3746604.83 | 61.94330  | (14052906) | 416168.79 | 3746604.83 | 60.17789  | (16102717) |
| 416218.79 | 3746604.83 | 50.54727  | (14012817) | 416268.79 | 3746604.83 | 39.93587  | (13070119) |
| 416318.79 | 3746604.83 | 33.27733  | (13021017) | 416368.79 | 3746604.83 | 28.09601  | (12012517) |
| 416418.79 | 3746604.83 | 25.48602  | (13021017) | 416468.79 | 3746604.83 | 25.17534  | (13021017) |
| 416518.79 | 3746604.83 | 25.17493  | (13021017) | 416018.79 | 3746654.83 | 42.29914  | (12022608) |
| 416068.79 | 3746654.83 | 46.46263  | (16061306) | 416118.79 | 3746654.83 | 47.67682  | (14052906) |
| 416168.79 | 3746654.83 | 46.88344  | (14052806) | 416218.79 | 3746654.83 | 42.98310  | (14102417) |
| 416268.79 | 3746654.83 | 36.20171  | (14012817) | 416318.79 | 3746654.83 | 30.38778  | (13070119) |
| 416368.79 | 3746654.83 | 27.17225  | (13021017) | 416418.79 | 3746654.83 | 24.02278  | (13021017) |
| 416468.79 | 3746654.83 | 22.58255  | (13021017) | 416518.79 | 3746654.83 | 22.22019  | (13021017) |
| 416018.79 | 3746704.83 | 36.94999  | (13021908) | 416068.79 | 3746704.83 | 37.80187  | (16061306) |
| 416118.79 | 3746704.83 | 38.59568  | (14052906) | 416168.79 | 3746704.83 | 38.67742  | (13062406) |
| 416218.79 | 3746704.83 | 36.00924  | (14012917) | 416268.79 | 3746704.83 | 31.82974  | (14102417) |
| 416318.79 | 3746704.83 | 28.23346  | (14020617) | 416368.79 | 3746704.83 | 24.79833  | (13070119) |
| 416418.79 | 3746704.83 | 23.06169  | (13021017) | 416468.79 | 3746704.83 | 21.23300  | (13021017) |
| 416518.79 | 3746704.83 | 20.24648  | (13021017) | 416302.62 | 3746499.91 | 39.89462  | (12012617) |
| 416312.84 | 3746498.80 | 38.02651  | (12012617) | 416322.84 | 3746499.46 | 36.54265  | (12061706) |
| 416332.84 | 3746498.80 | 36.16758  | (12061706) | 416342.39 | 3746499.24 | 35.67987  | (12061706) |
| 416190.87 | 3746435.25 | 94.17553  | (12061706) | 416189.75 | 3746447.47 | 100.33791 | (12090518) |
| 416301.03 | 3746253.85 | 136.99469 | (12061706) | 416335.27 | 3746290.44 | 178.51553 | (12090318) |
| 416331.87 | 3746279.46 | 182.30739 | (12061706) | 416361.93 | 3746288.35 | 208.21621 | (12061706) |
| 416370.04 | 3746286.52 | 196.42746 | (12061706) | 416384.15 | 3746286.52 | 185.78151 | (12061706) |
| 416388.59 | 3746285.74 | 182.99241 | (12061706) | 416400.10 | 3746294.10 | 212.01539 | (12061706) |
| 416406.37 | 3746294.62 | 180.13945 | (12090318) | 416409.51 | 3746291.23 | 166.46139 | (12090518) |
| 416422.31 | 3746291.23 | 189.85505 | (12061706) | 416428.85 | 3746288.87 | 234.27847 | (12061706) |
| 416444.80 | 3746287.83 | 218.71175 | (12061706) | 416448.19 | 3746291.75 | 190.84114 | (12090518) |

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416459.69 3746291.75 185.71152 (12061706)      416466.23 3746288.87 223.62046 (12061706)
416481.65 3746287.04 208.59376 (12061706)      416485.31 3746291.23 185.13838 (12090518)
416499.95 3746290.96 239.00545 (12061706)      416505.44 3746288.35 216.74356 (12061706)
416520.34 3746287.31 207.94223 (12061706)      416525.57 3746291.23 183.52668 (12090518)
416540.99 3746294.62 204.27439 (12090518)      416545.17 3746289.92 177.40148 (12090518)
416557.98 3746293.58 200.94578 (12090518)      416562.95 3746288.35 212.93488 (12061706)
416578.63 3746286.26 196.92467 (12061706)      416580.72 3746290.18 180.18559 (12090518)
416595.36 3746289.13 216.19154 (12061706)      416600.85 3746291.49 185.25142 (12090518)
416614.97 3746286.52 195.61214 (12061706)      416619.15 3746289.66 218.62870 (12061706)
*** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Raymond *** 05/22/23
*** AERMET - VERSION 16216 *** ***
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PAGE 82
*** MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
SLINE5 ***
      INCLUDING SOURCE(S): L0000124 , L0000125 , L0000126 , L0000127 , L0000128 ,
L0000129 , L0000130 , L0000131 , L0000132 , L0000133 , L0000134 , L0000135 , L0000136 ,
L0000137 , L0000138 , L0000139 , L0000140 , L0000141 , L0000142 , L0000143 , L0000144 ,
L0000145 , L0000146 , L0000147 , L0000148 , L0000149 , L0000150 , L0000151 , ... ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC
(YYMMDDHH)
-----
416629.34 3746289.40 214.95413 (12061706)      416637.18 3746292.53 190.21866 (12090518)
416649.99 3746292.27 193.71116 (12090518)      416655.48 3746286.52 191.28927 (12061706)
416669.34 3746284.43 176.65168 (12061706)      416672.73 3746287.83 197.75902 (12061706)
416686.33 3746289.13 204.85580 (12061706)      416691.03 3746287.83 194.51732 (12061706)
416703.58 3746287.83 191.57891 (12061706)      416709.07 3746290.18 208.52234 (12061706)
416725.01 3746283.65 166.96621 (13091107)      416718.22 3746289.66 201.19611 (12061706)
416727.89 3746288.09 190.36794 (13091107)      416740.17 3746287.57 185.29693 (13091107)
416745.93 3746284.43 167.95264 (13091107)      416761.09 3746284.43 162.83801 (13091107)
416764.75 3746287.04 174.35623 (13091107)      416777.29 3746286.52 160.09172 (12090518)
416782.78 3746288.09 165.72518 (12090518)      416572.62 3746354.48 114.75822 (12061706)
416583.60 3746355.01 113.19648 (12061706)      416576.54 3746367.55 94.68095 (12012617)
416582.81 3746368.86 93.02730 (12012617)      416586.21 3746371.48 90.32040 (12012617)
416587.26 3746353.70 115.83356 (12061706)      416600.07 3746355.53 111.35711 (12061706)
416605.03 3746368.08 92.60309 (12012617)      416612.61 3746375.66 85.29545 (12012617)
416608.95 3746356.58 108.78282 (12061706)      416621.76 3746357.62 106.59191 (15032718)
416622.28 3746371.74 88.18103 (12012617)      416625.68 3746370.95 88.71102 (12012617)
416640.32 3746372.26 86.70687 (12012617)      416625.94 3746355.27 110.84562 (15032718)
416635.62 3746355.53 110.43078 (15032718)      416641.89 3746373.31 85.70118 (12012617)
416654.17 3746374.35 84.11376 (12012617)      416643.20 3746360.50 102.03878 (15032718)
416652.61 3746360.50 102.06571 (15032718)      416656.79 3746375.40 83.09272 (12012617)
416663.59 3746375.40 82.69291 (12012617)      416658.10 3746356.31 108.98945 (15032718)
416668.29 3746357.36 107.07521 (15032718)      416672.21 3746353.18 114.49215 (15032718)
416676.92 3746353.18 114.39103 (15032718)      416731.81 3746458.47 44.75832 (14090718)
416731.03 3746466.83 43.01694 (14090718)      416742.01 3746473.63 41.34938 (14090718)
416731.03 3746411.68 57.95832 (12012617)      416731.03 3746425.01 53.21038 (14090718)
416681.62 3746375.61 82.19111 (15032718)      416698.09 3746375.87 81.77603 (15032718)
416703.58 3746376.65 80.85792 (15032718)      416703.58 3746357.83 105.40054 (15032718)

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|           |            |           |            |           |            |           |            |
|-----------|------------|-----------|------------|-----------|------------|-----------|------------|
| 416714.56 | 3746373.51 | 83.98928  | (15032718) | 416723.97 | 3746372.99 | 84.23235  | (15032718) |
| 416749.85 | 3746377.17 | 78.56421  | (15032718) | 416759.00 | 3746375.34 | 79.75199  | (15032718) |
| 416774.16 | 3746375.34 | 78.50846  | (15032718) | 416758.21 | 3746413.77 | 55.41308  | (12012617) |
| 416756.65 | 3746428.41 | 50.76994  | (12012617) | 416751.16 | 3746474.68 | 40.89287  | (14090718) |
| 416781.48 | 3746473.63 | 40.11091  | (14090718) | 416756.38 | 3746455.59 | 44.40368  | (14090718) |
| 416773.90 | 3746452.98 | 44.16012  | (14090718) | 416140.28 | 3746195.97 | 124.18759 | (13122322) |
| 416158.30 | 3746194.91 | 120.29628 | (13041207) | 416172.61 | 3746195.44 | 115.34762 | (13041207) |
| 416190.09 | 3746196.50 | 102.20785 | (13060506) | 416220.03 | 3746195.97 | 91.71286  | (13060506) |
| 416239.64 | 3746195.17 | 84.42441  | (13060506) | 416250.77 | 3746195.17 | 80.78532  | (13060506) |
| 416267.19 | 3746194.91 | 77.43691  | (12010817) | 416086.50 | 3746243.39 | 202.12633 | (12112108) |
| 416067.16 | 3746248.16 | 166.93297 | (15100607) | 416057.36 | 3746252.67 | 152.95347 | (16061606) |
| 416049.67 | 3746254.52 | 142.34241 | (16061606) | 416043.58 | 3746258.23 | 136.46722 | (14092507) |
| 416038.28 | 3746258.76 | 131.05216 | (14092507) | 416032.45 | 3746255.32 | 123.56530 | (16092307) |

\*\*\* AERMOD - VERSION 19191 \*\*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23

\*\*\* AERMET - VERSION 16216 \*\*\*

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PAGE 83

\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

SLINE5 \*\*\*

INCLUDING SOURCE(S): L0000124 , L0000125 , L0000126 , L0000127 , L0000128 ,  
L0000129 , L0000130 , L0000131 , L0000132 , L0000133 , L0000134 , L0000135 , L0000136 ,  
L0000137 , L0000138 , L0000139 , L0000140 , L0000141 , L0000142 , L0000143 , L0000144 ,  
L0000145 , L0000146 , L0000147 , L0000148 , L0000149 , L0000150 , L0000151 , ... ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3

\*\*

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC |
|-------------|-------------|------|------------|-------------|-------------|------|
|-------------|-------------|------|------------|-------------|-------------|------|

|           |            |           |            |           |            |           |            |
|-----------|------------|-----------|------------|-----------|------------|-----------|------------|
| 416026.09 | 3746256.91 | 118.73612 | (14092507) | 416013.38 | 3746259.03 | 110.01467 | (14092507) |
| 416008.87 | 3746260.88 | 107.57193 | (14092507) | 416004.90 | 3746261.94 | 105.27872 | (14092507) |
| 415999.33 | 3746267.24 | 102.60062 | (14092507) | 415984.76 | 3746268.03 | 94.68923  | (14092507) |
| 415970.45 | 3746270.42 | 88.05532  | (14092507) | 415958.53 | 3746270.68 | 83.21288  | (14092507) |
| 415946.61 | 3746271.21 | 78.87843  | (14092507) | 415936.81 | 3746273.07 | 75.59631  | (14092507) |
| 415924.09 | 3746272.80 | 71.80185  | (14092507) | 415913.49 | 3746272.01 | 68.92725  | (14092507) |
| 415899.45 | 3746273.33 | 65.40759  | (14092507) | 415883.29 | 3746274.92 | 61.75464  | (14092507) |
| 415892.30 | 3746272.01 | 63.78603  | (14092507) | 415864.21 | 3746276.25 | 57.93280  | (14092507) |
| 415856.79 | 3746275.98 | 56.60119  | (14092507) | 415843.81 | 3746275.19 | 54.41922  | (14092507) |
| 415834.27 | 3746274.66 | 52.91347  | (14092507) | 415821.55 | 3746275.72 | 50.98532  | (14092507) |
| 415809.63 | 3746274.39 | 49.35361  | (14092507) | 415797.44 | 3746276.78 | 47.70246  | (14092507) |
| 415787.11 | 3746276.25 | 46.44672  | (14092507) |           |            |           |            |

\*\*\* AERMOD - VERSION 19191 \*\*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 20:02:04

PAGE 84

\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL1 \*\*\*

INCLUDING SOURCE(S): VOL1 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3

\*\*

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC |
|-------------|-------------|------|------------|-------------|-------------|------|
|-------------|-------------|------|------------|-------------|-------------|------|

|           |            |             |            |           |            |                       |
|-----------|------------|-------------|------------|-----------|------------|-----------------------|
| 416018.79 | 3746204.83 | 55.11291    | (14092107) | 416068.79 | 3746204.83 | 54.28483 (16122622)   |
| 416118.79 | 3746204.83 | 61.16878    | (15071821) | 416168.79 | 3746204.83 | 68.29811 (16112908)   |
| 416218.79 | 3746204.83 | 77.21549    | (13091107) | 416268.79 | 3746204.83 | 104.09239 (13091107)  |
| 416318.79 | 3746204.83 | 78.75606    | (15050405) | 416368.79 | 3746204.83 | 79.44346 (13122322)   |
| 416418.79 | 3746204.83 | 80.27379    | (13041207) | 416468.79 | 3746204.83 | 65.52217 (12101118)   |
| 416518.79 | 3746204.83 | 62.81066    | (13060506) | 416018.79 | 3746254.83 | 53.82609 (15050803)   |
| 416068.79 | 3746254.83 | 74.24011    | (14092107) | 416118.79 | 3746254.83 | 71.80315 (16122622)   |
| 416168.79 | 3746254.83 | 84.42883    | (16112908) | 416218.79 | 3746254.83 | 91.73876 (13122324)   |
| 416268.79 | 3746254.83 | 143.44019   | (13091107) | 416318.79 | 3746254.83 | 102.72138 (15050405)  |
| 416368.79 | 3746254.83 | 101.83362   | (13122322) | 416418.79 | 3746254.83 | 106.90476 (13041207)  |
| 416468.79 | 3746254.83 | 85.28904    | (13060506) | 416518.79 | 3746254.83 | 71.38870 (15030202)   |
| 416018.79 | 3746304.83 | 60.40570    | (16122701) | 416068.79 | 3746304.83 | 71.77189 (15050803)   |
| 416118.79 | 3746304.83 | 105.82618   | (14092107) | 416168.79 | 3746304.83 | 101.37920 (15021808)  |
| 416218.79 | 3746304.83 | 123.35155   | (16112908) | 416268.79 | 3746304.83 | 198.89442 (13091107)  |
| 416318.79 | 3746304.83 | 150.04557   | (13091107) | 416368.79 | 3746304.83 | 145.45309 (13041207)  |
| 416418.79 | 3746304.83 | 133.39206   | (13041207) | 416468.79 | 3746304.83 | 104.34431 (13060506)  |
| 416518.79 | 3746304.83 | 86.50917    | (15030520) | 416018.79 | 3746354.83 | 68.92436 (15031218)   |
| 416068.79 | 3746354.83 | 83.79927    | (15031218) | 416118.79 | 3746354.83 | 102.41624 (16122701)  |
| 416168.79 | 3746354.83 | 165.14222   | (14092107) | 416218.79 | 3746354.83 | 174.94563 (14090207)  |
| 416268.79 | 3746354.83 | 270.18828   | (13091107) | 416318.79 | 3746354.83 | 267.20723 (13091107)  |
| 416368.79 | 3746354.83 | 249.52608   | (13041207) | 416418.79 | 3746354.83 | 174.26014 (13060506)  |
| 416468.79 | 3746354.83 | 132.24376   | (15030520) | 416518.79 | 3746354.83 | 119.14532 (16090907)  |
| 416018.79 | 3746404.83 | 76.42422    | (12112108) | 416068.79 | 3746404.83 | 91.69520 (15121523)   |
| 416118.79 | 3746404.83 | 123.18604   | (15031218) | 416168.79 | 3746404.83 | 163.68484 (15031218)  |
| 416218.79 | 3746404.83 | 301.32014   | (14092107) | 416268.79 | 3746404.83 | 393.88163 (14090207)  |
| 416318.79 | 3746404.83 | 564.66875   | (13091107) | 416368.79 | 3746404.83 | 425.02773 (13041207)  |
| 416418.79 | 3746404.83 | 253.69547   | (16090907) | 416468.79 | 3746404.83 | 195.51200 (16090907)  |
| 416518.79 | 3746404.83 | 126.50010   | (14120717) | 416018.79 | 3746454.83 | 84.23979 (15100607)   |
| 416068.79 | 3746454.83 | 108.21031   | (15100607) | 416118.79 | 3746454.83 | 145.86508 (12112108)  |
| 416168.79 | 3746454.83 | 209.21923   | (12112108) | 416218.79 | 3746454.83 | 335.17833 (15031218)  |
| 416268.79 | 3746454.83 | 858.03581   | (14092107) | 416318.79 | 3746454.83 | 1752.12659 (13091107) |
| 416368.79 | 3746454.83 | 780.93821   | (16090907) | 416418.79 | 3746454.83 | 361.60554 (14120717)  |
| 416468.79 | 3746454.83 | 221.27215   | (15112508) | 416518.79 | 3746454.83 | 147.51624 (13090718)  |
| 416018.79 | 3746504.83 | 85.79264    | (14092507) | 416068.79 | 3746504.83 | 111.43521 (14092507)  |
| 416118.79 | 3746504.83 | 153.56087   | (14092507) | 416168.79 | 3746504.83 | 232.39501 (14092507)  |
| 416218.79 | 3746504.83 | 417.17792   | (14092507) | 416268.79 | 3746504.83 | 1133.39753 (13121916) |
| 416318.79 | 3746504.83 | 37649.66029 | (13042707) | 416368.79 | 3746504.83 | 1465.60319 (12091207) |
| 416418.79 | 3746504.83 | 471.78375   | (12090318) | 416468.79 | 3746504.83 | 252.06442 (12090318)  |
| 416518.79 | 3746504.83 | 163.15585   | (12090318) | 416018.79 | 3746554.83 | 83.40215 (14112208)   |
| 416068.79 | 3746554.83 | 106.93781   | (15051606) | 416118.79 | 3746554.83 | 147.28260 (14032807)  |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL1 \*\*\*

INCLUDING SOURCE(S): VOL1 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3

\*\*

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC |
|-------------|-------------|------|------------|-------------|-------------|------|
|-------------|-------------|------|------------|-------------|-------------|------|

|           |            |             |            |           |            |                        |
|-----------|------------|-------------|------------|-----------|------------|------------------------|
| 416168.79 | 3746554.83 | 213.24466   | (14032807) | 416218.79 | 3746554.83 | 419.72742 (15041407)   |
| 416268.79 | 3746554.83 | 655.50503   | (14061606) | 416318.79 | 3746554.83 | 1586.98505 (16063006)  |
| 416368.79 | 3746554.83 | 939.51084   | (12060506) | 416418.79 | 3746554.83 | 400.94826 (14090718)   |
| 416468.79 | 3746554.83 | 221.87140   | (15032718) | 416518.79 | 3746554.83 | 155.80821 (15032718)   |
| 416018.79 | 3746604.83 | 78.48295    | (14032807) | 416068.79 | 3746604.83 | 93.10803 (14032807)    |
| 416118.79 | 3746604.83 | 140.79914   | (15041407) | 416168.79 | 3746604.83 | 175.76245 (12113008)   |
| 416218.79 | 3746604.83 | 239.80412   | (14061606) | 416268.79 | 3746604.83 | 379.57014 (14090107)   |
| 416318.79 | 3746604.83 | 538.73994   | (16063006) | 416368.79 | 3746604.83 | 442.88562 (12121216)   |
| 416418.79 | 3746604.83 | 304.54062   | (12060506) | 416468.79 | 3746604.83 | 181.14243 (13062919)   |
| 416518.79 | 3746604.83 | 141.20582   | (14090718) | 416018.79 | 3746654.83 | 70.08081 (15041407)    |
| 416068.79 | 3746654.83 | 85.45575    | (12113008) | 416118.79 | 3746654.83 | 110.29616 (12113008)   |
| 416168.79 | 3746654.83 | 133.52069   | (14061606) | 416218.79 | 3746654.83 | 176.95982 (13062306)   |
| 416268.79 | 3746654.83 | 224.45031   | (14090107) | 416318.79 | 3746654.83 | 265.08047 (16063006)   |
| 416368.79 | 3746654.83 | 289.16997   | (12121216) | 416418.79 | 3746654.83 | 183.40905 (13041307)   |
| 416468.79 | 3746654.83 | 163.82533   | (12060506) | 416518.79 | 3746654.83 | 110.29439 (13062919)   |
| 416018.79 | 3746704.83 | 65.22718    | (12113008) | 416068.79 | 3746704.83 | 76.07470 (12113008)    |
| 416118.79 | 3746704.83 | 88.30436    | (14061606) | 416168.79 | 3746704.83 | 107.84137 (15021708)   |
| 416218.79 | 3746704.83 | 131.23715   | (12022608) | 416268.79 | 3746704.83 | 143.99144 (16061306)   |
| 416318.79 | 3746704.83 | 153.93761   | (16063006) | 416368.79 | 3746704.83 | 177.36184 (12121216)   |
| 416418.79 | 3746704.83 | 134.52026   | (14012817) | 416468.79 | 3746704.83 | 113.27631 (13021017)   |
| 416518.79 | 3746704.83 | 103.84756   | (12060506) | 416302.62 | 3746499.91 | 6610.24580 (14092007)  |
| 416312.84 | 3746498.80 | 16880.37928 | (14092107) | 416322.84 | 3746499.46 | 29078.61820 (15040807) |
| 416332.84 | 3746498.80 | 17494.75937 | (16090907) | 416342.39 | 3746499.24 | 6359.53861 (13090518)  |
| 416190.87 | 3746435.25 | 230.09724   | (15031218) | 416189.75 | 3746447.47 | 233.75262 (15031218)   |
| 416301.03 | 3746253.85 | 121.54935   | (13091107) | 416335.27 | 3746290.44 | 128.32058 (13102523)   |
| 416331.87 | 3746279.46 | 119.73227   | (13102523) | 416361.93 | 3746288.35 | 125.99240 (13122322)   |
| 416370.04 | 3746286.52 | 122.76383   | (16122705) | 416384.15 | 3746286.52 | 133.73041 (13041207)   |
| 416388.59 | 3746285.74 | 134.75796   | (13041207) | 416400.10 | 3746294.10 | 143.31295 (13041207)   |
| 416406.37 | 3746294.62 | 140.34123   | (13041207) | 416409.51 | 3746291.23 | 135.44001 (13041207)   |
| 416422.31 | 3746291.23 | 122.87012   | (13041207) | 416428.85 | 3746288.87 | 113.95038 (13041207)   |
| 416444.80 | 3746287.83 | 105.49293   | (13060506) | 416448.19 | 3746291.75 | 107.44716 (13060506)   |
| 416459.69 | 3746291.75 | 104.04780   | (13060506) | 416466.23 | 3746288.87 | 100.18517 (13060506)   |
| 416481.65 | 3746287.04 | 92.09312    | (13060506) | 416485.31 | 3746291.23 | 91.94425 (16020803)    |
| 416499.95 | 3746290.96 | 87.83575    | (15030202) | 416505.44 | 3746288.35 | 85.52474 (15030202)    |
| 416520.34 | 3746287.31 | 80.94044    | (15030202) | 416525.57 | 3746291.23 | 79.95965 (15030202)    |
| 416540.99 | 3746294.62 | 77.49110    | (15030520) | 416545.17 | 3746289.92 | 75.22797 (15030520)    |
| 416557.98 | 3746293.58 | 73.14823    | (16112918) | 416562.95 | 3746288.35 | 70.80848 (16112918)    |
| 416578.63 | 3746286.26 | 68.57959    | (16090907) | 416580.72 | 3746290.18 | 70.13238 (16090907)    |
| 416595.36 | 3746289.13 | 67.11307    | (16090907) | 416600.85 | 3746291.49 | 66.09578 (16090907)    |
| 416614.97 | 3746286.52 | 61.20631    | (16090907) | 416619.15 | 3746289.66 | 60.28907 (15101919)    |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL1 \*\*\*

INCLUDING SOURCE(S): VOL1 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3

\*\*

| X-COORD (M)<br>(YYMMDDHH) | Y-COORD (M)<br>(YYMMDDHH) | CONC<br>(YYMMDDHH) | X-COORD (M)<br>(YYMMDDHH) | Y-COORD (M)<br>(YYMMDDHH) | CONC<br>(YYMMDDHH) |
|---------------------------|---------------------------|--------------------|---------------------------|---------------------------|--------------------|
|---------------------------|---------------------------|--------------------|---------------------------|---------------------------|--------------------|

|           |            |                     |           |            |                     |
|-----------|------------|---------------------|-----------|------------|---------------------|
| 416629.34 | 3746289.40 | 58.01346 (15101919) | 416637.18 | 3746292.53 | 57.63484 (15060919) |
| 416649.99 | 3746292.27 | 55.73525 (15060919) | 416655.48 | 3746286.52 | 54.10486 (15060919) |
| 416669.34 | 3746284.43 | 51.86881 (15060919) | 416672.73 | 3746287.83 | 51.69241 (15060919) |
| 416686.33 | 3746289.13 | 49.55976 (15060919) | 416691.03 | 3746287.83 | 48.71601 (15060919) |
| 416703.58 | 3746287.83 | 46.60372 (15060919) | 416709.07 | 3746290.18 | 45.66602 (15060919) |
| 416725.01 | 3746283.65 | 43.17102 (13110117) | 416718.22 | 3746289.66 | 44.31678 (13110117) |
| 416727.89 | 3746288.09 | 43.05316 (13071522) | 416740.17 | 3746287.57 | 41.80095 (14120717) |
| 416745.93 | 3746284.43 | 40.96761 (14120717) | 416761.09 | 3746284.43 | 39.69549 (14120717) |
| 416764.75 | 3746287.04 | 39.58539 (14120717) | 416777.29 | 3746286.52 | 38.40342 (14120717) |
| 416782.78 | 3746288.09 | 37.97677 (14120717) | 416572.62 | 3746354.48 | 84.90053 (15060919) |
| 416583.60 | 3746355.01 | 80.56670 (15060919) | 416576.54 | 3746367.55 | 84.20443 (15060919) |
| 416582.81 | 3746368.86 | 82.73451 (14120717) | 416586.21 | 3746371.48 | 82.48911 (14120717) |
| 416587.26 | 3746353.70 | 79.00783 (15060919) | 416600.07 | 3746355.53 | 74.12594 (13071522) |
| 416605.03 | 3746368.08 | 75.94946 (14120717) | 416612.61 | 3746375.66 | 75.11022 (12090419) |
| 416608.95 | 3746356.58 | 72.33493 (14120717) | 416621.76 | 3746357.62 | 69.47381 (14120717) |
| 416622.28 | 3746371.74 | 71.69723 (12090419) | 416625.68 | 3746370.95 | 70.65507 (12090419) |
| 416640.32 | 3746372.26 | 66.92231 (12090419) | 416625.94 | 3746355.27 | 68.04242 (14120717) |
| 416635.62 | 3746355.53 | 65.78847 (14120717) | 416641.89 | 3746373.31 | 66.59319 (12090419) |
| 416654.17 | 3746374.35 | 63.76891 (15112508) | 416643.20 | 3746360.50 | 64.74608 (12090419) |
| 416652.61 | 3746360.50 | 62.67244 (12090419) | 416656.79 | 3746375.40 | 63.53496 (15112508) |
| 416663.59 | 3746375.40 | 62.26350 (15112508) | 416658.10 | 3746356.31 | 60.97932 (12090419) |
| 416668.29 | 3746357.36 | 58.99530 (12090419) | 416672.21 | 3746353.18 | 57.80714 (12090419) |
| 416676.92 | 3746353.18 | 56.89591 (12090419) | 416731.81 | 3746458.47 | 53.96275 (13033018) |
| 416731.03 | 3746466.83 | 54.51595 (13033018) | 416742.01 | 3746473.63 | 52.53345 (13033018) |
| 416731.03 | 3746411.68 | 51.89039 (13090718) | 416731.03 | 3746425.01 | 52.81330 (13090718) |
| 416681.62 | 3746375.61 | 58.95223 (15112508) | 416698.09 | 3746375.87 | 55.98568 (15112508) |
| 416703.58 | 3746376.65 | 55.07181 (15112508) | 416703.58 | 3746357.83 | 52.61580 (15112508) |
| 416714.56 | 3746373.51 | 52.91320 (15112508) | 416723.97 | 3746372.99 | 51.31560 (15112508) |
| 416749.85 | 3746377.17 | 47.25172 (15112508) | 416759.00 | 3746375.34 | 45.83442 (15112508) |
| 416774.16 | 3746375.34 | 43.58683 (15112508) | 416758.21 | 3746413.77 | 47.90363 (13090718) |
| 416756.65 | 3746428.41 | 48.51385 (13090718) | 416751.16 | 3746474.68 | 50.95569 (12070919) |
| 416781.48 | 3746473.63 | 46.25897 (12070919) | 416756.38 | 3746455.59 | 49.62200 (13033018) |
| 416773.90 | 3746452.98 | 46.84486 (13033018) | 416140.28 | 3746195.97 | 63.52060 (16112908) |
| 416158.30 | 3746194.91 | 65.03114 (16112908) | 416172.61 | 3746195.44 | 65.06268 (16112908) |
| 416190.09 | 3746196.50 | 67.08944 (13010208) | 416220.03 | 3746195.97 | 77.03382 (13091107) |
| 416239.64 | 3746195.17 | 92.39597 (13091107) | 416250.77 | 3746195.17 | 97.46466 (13091107) |
| 416267.19 | 3746194.91 | 98.18230 (13091107) | 416086.50 | 3746243.39 | 71.30359 (14092107) |
| 416067.16 | 3746248.16 | 72.41608 (14092107) | 416057.36 | 3746252.67 | 69.97275 (14092107) |
| 416049.67 | 3746254.52 | 66.46793 (14092107) | 416043.58 | 3746258.23 | 62.65064 (14092107) |
| 416038.28 | 3746258.76 | 59.41915 (14092107) | 416032.45 | 3746255.32 | 56.89716 (14092107) |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL1 \*\*\*

INCLUDING SOURCE(S): VOL1 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3

\*\*

| X-COORD (M)<br>(YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC |
|---------------------------|-------------|------|------------|-------------|-------------|------|
|---------------------------|-------------|------|------------|-------------|-------------|------|

|           |            |          |            |           |            |                     |
|-----------|------------|----------|------------|-----------|------------|---------------------|
| 416026.09 | 3746256.91 | 55.05005 | (15050803) | 416013.38 | 3746259.03 | 53.72876 (15050803) |
| 416008.87 | 3746260.88 | 53.28094 | (15050803) | 416004.90 | 3746261.94 | 52.75831 (15050803) |
| 415999.33 | 3746267.24 | 52.59589 | (16122701) | 415984.76 | 3746268.03 | 50.70721 (16122701) |
| 415970.45 | 3746270.42 | 48.69811 | (16122701) | 415958.53 | 3746270.68 | 46.81472 (16101920) |
| 415946.61 | 3746271.21 | 45.61981 | (15031218) | 415936.81 | 3746273.07 | 45.17387 (15031218) |
| 415924.09 | 3746272.80 | 44.05245 | (15031218) | 415913.49 | 3746272.01 | 43.00028 (15031218) |
| 415899.45 | 3746273.33 | 41.75390 | (15031218) | 415883.29 | 3746274.92 | 40.16428 (15031218) |
| 415892.30 | 3746272.01 | 40.94205 | (15031218) | 415864.21 | 3746276.25 | 38.11970 (15031218) |
| 415856.79 | 3746275.98 | 37.29435 | (15031218) | 415843.81 | 3746275.19 | 35.86345 (15031218) |
| 415834.27 | 3746274.66 | 34.82875 | (15031218) | 415821.55 | 3746275.72 | 33.43422 (15031218) |
| 415809.63 | 3746274.39 | 32.21102 | (15100506) | 415797.44 | 3746276.78 | 31.37130 (15100506) |
| 415787.11 | 3746276.25 | 30.58293 | (15100506) |           |            |                     |

\*\*\* AERMOD - VERSION 19191 \*\*\* \*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL2 \*\*\*

INCLUDING SOURCE(S): VOL2 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3

\*\*

| X-COORD (M)<br>(YYMMDDHH) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC |
|---------------------------|-------------|------|------------|-------------|-------------|------|
|---------------------------|-------------|------|------------|-------------|-------------|------|

|           |            |           |            |           |            |                      |
|-----------|------------|-----------|------------|-----------|------------|----------------------|
| 416018.79 | 3746204.83 | 56.59470  | (14092107) | 416068.79 | 3746204.83 | 55.23243 (16122622)  |
| 416118.79 | 3746204.83 | 63.09112  | (15071821) | 416168.79 | 3746204.83 | 68.26621 (13010208)  |
| 416218.79 | 3746204.83 | 87.17204  | (13091107) | 416268.79 | 3746204.83 | 100.35425 (13091107) |
| 416318.79 | 3746204.83 | 78.94448  | (13102523) | 416368.79 | 3746204.83 | 77.90909 (13122322)  |
| 416418.79 | 3746204.83 | 80.36598  | (13041207) | 416468.79 | 3746204.83 | 65.54568 (13060506)  |
| 416518.79 | 3746204.83 | 60.74712  | (13060506) | 416018.79 | 3746254.83 | 54.95178 (15050803)  |
| 416068.79 | 3746254.83 | 76.57496  | (14092107) | 416118.79 | 3746254.83 | 72.94542 (13121005)  |
| 416168.79 | 3746254.83 | 87.09410  | (16112908) | 416218.79 | 3746254.83 | 98.29544 (13091107)  |
| 416268.79 | 3746254.83 | 143.07465 | (13091107) | 416318.79 | 3746254.83 | 102.94170 (13102523) |
| 416368.79 | 3746254.83 | 100.69234 | (16122705) | 416418.79 | 3746254.83 | 101.71054 (13041207) |
| 416468.79 | 3746254.83 | 83.59756  | (13060506) | 416518.79 | 3746254.83 | 70.20258 (15030202)  |
| 416018.79 | 3746304.83 | 62.74064  | (16122701) | 416068.79 | 3746304.83 | 74.11344 (15050803)  |
| 416118.79 | 3746304.83 | 109.89687 | (14092107) | 416168.79 | 3746304.83 | 106.18401 (15021808) |
| 416218.79 | 3746304.83 | 123.82916 | (13010208) | 416268.79 | 3746304.83 | 209.19542 (13091107) |
| 416318.79 | 3746304.83 | 144.05760 | (15040807) | 416368.79 | 3746304.83 | 154.58899 (13041207) |
| 416418.79 | 3746304.83 | 119.36600 | (13060506) | 416468.79 | 3746304.83 | 99.25218 (16020803)  |
| 416518.79 | 3746304.83 | 83.77444  | (15030520) | 416018.79 | 3746354.83 | 71.94920 (15031218)  |
| 416068.79 | 3746354.83 | 86.48620  | (15031218) | 416118.79 | 3746354.83 | 107.13934 (15050803) |
| 416168.79 | 3746354.83 | 173.39426 | (14092107) | 416218.79 | 3746354.83 | 193.28159 (14090207) |
| 416268.79 | 3746354.83 | 311.01747 | (13091107) | 416318.79 | 3746354.83 | 239.27684 (15040807) |

|           |            |             |            |           |            |            |            |
|-----------|------------|-------------|------------|-----------|------------|------------|------------|
| 416368.79 | 3746354.83 | 245.80850   | (13041207) | 416418.79 | 3746354.83 | 163.98695  | (13060506) |
| 416468.79 | 3746354.83 | 129.94492   | (16090907) | 416518.79 | 3746354.83 | 111.27667  | (16090907) |
| 416018.79 | 3746404.83 | 79.02574    | (12112108) | 416068.79 | 3746404.83 | 95.94862   | (15121523) |
| 416118.79 | 3746404.83 | 131.28030   | (15031218) | 416168.79 | 3746404.83 | 175.85708  | (16122701) |
| 416218.79 | 3746404.83 | 323.30715   | (14092107) | 416268.79 | 3746404.83 | 448.40054  | (13091107) |
| 416318.79 | 3746404.83 | 467.39789   | (15040807) | 416368.79 | 3746404.83 | 361.32367  | (13041207) |
| 416418.79 | 3746404.83 | 257.34845   | (16090907) | 416468.79 | 3746404.83 | 172.17953  | (16090907) |
| 416518.79 | 3746404.83 | 119.91902   | (14120717) | 416018.79 | 3746454.83 | 88.34820   | (15100607) |
| 416068.79 | 3746454.83 | 114.21531   | (15100607) | 416118.79 | 3746454.83 | 156.27308  | (12112108) |
| 416168.79 | 3746454.83 | 225.76253   | (12112108) | 416218.79 | 3746454.83 | 380.58454  | (15031218) |
| 416268.79 | 3746454.83 | 1018.99358  | (14092107) | 416318.79 | 3746454.83 | 1355.26020 | (13091107) |
| 416368.79 | 3746454.83 | 736.70280   | (16090907) | 416418.79 | 3746454.83 | 323.40319  | (12090419) |
| 416468.79 | 3746454.83 | 202.77350   | (15112508) | 416518.79 | 3746454.83 | 138.52972  | (13090718) |
| 416018.79 | 3746504.83 | 90.06470    | (14092507) | 416068.79 | 3746504.83 | 118.16171  | (14092507) |
| 416118.79 | 3746504.83 | 165.32260   | (14092507) | 416168.79 | 3746504.83 | 256.70844  | (14092507) |
| 416218.79 | 3746504.83 | 485.64359   | (14092507) | 416268.79 | 3746504.83 | 1677.69012 | (13121916) |
| 416318.79 | 3746504.83 | 25977.08403 | (15042507) | 416368.79 | 3746504.83 | 1068.92246 | (12090318) |
| 416418.79 | 3746504.83 | 406.48144   | (12090318) | 416468.79 | 3746504.83 | 228.48473  | (12090318) |
| 416518.79 | 3746504.83 | 151.65487   | (12090318) | 416018.79 | 3746554.83 | 87.24488   | (14112208) |
| 416068.79 | 3746554.83 | 113.01607   | (15051606) | 416118.79 | 3746554.83 | 158.07406  | (14032807) |

\*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL2 \*\*\*

INCLUDING SOURCE(S): VOL2 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3

\*\*

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|-------------|-------------|------|------------|-------------|-------------|------|------------|
|-------------|-------------|------|------------|-------------|-------------|------|------------|

|           |            |           |            |           |            |            |            |
|-----------|------------|-----------|------------|-----------|------------|------------|------------|
| 416168.79 | 3746554.83 | 233.19357 | (15041407) | 416218.79 | 3746554.83 | 469.51995  | (15041407) |
| 416268.79 | 3746554.83 | 772.20429 | (15021708) | 416318.79 | 3746554.83 | 1483.49266 | (12121216) |
| 416368.79 | 3746554.83 | 779.08971 | (12060506) | 416418.79 | 3746554.83 | 355.29294  | (14090718) |
| 416468.79 | 3746554.83 | 206.23389 | (15032718) | 416518.79 | 3746554.83 | 145.82084  | (15032718) |
| 416018.79 | 3746604.83 | 81.30881  | (14032807) | 416068.79 | 3746604.83 | 101.43976  | (15041407) |
| 416118.79 | 3746604.83 | 149.41718 | (15041407) | 416168.79 | 3746604.83 | 189.10046  | (12113008) |
| 416218.79 | 3746604.83 | 261.18954 | (14061606) | 416268.79 | 3746604.83 | 430.50106  | (14090107) |
| 416318.79 | 3746604.83 | 439.79753 | (16091207) | 416368.79 | 3746604.83 | 358.40704  | (16081807) |
| 416418.79 | 3746604.83 | 281.66581 | (12060506) | 416468.79 | 3746604.83 | 172.61739  | (14090718) |
| 416518.79 | 3746604.83 | 133.00823 | (14090718) | 416018.79 | 3746654.83 | 73.00251   | (15041407) |
| 416068.79 | 3746654.83 | 90.59946  | (12113008) | 416118.79 | 3746654.83 | 114.39568  | (12113008) |
| 416168.79 | 3746654.83 | 141.69633 | (14061606) | 416218.79 | 3746654.83 | 188.47386  | (13062306) |
| 416268.79 | 3746654.83 | 225.55383 | (16063006) | 416318.79 | 3746654.83 | 239.14159  | (13062406) |
| 416368.79 | 3746654.83 | 270.59998 | (12121216) | 416418.79 | 3746654.83 | 178.55871  | (13041307) |
| 416468.79 | 3746654.83 | 155.20772 | (12060506) | 416518.79 | 3746654.83 | 106.20481  | (13062919) |
| 416018.79 | 3746704.83 | 67.74497  | (12113008) | 416068.79 | 3746704.83 | 77.44810   | (12113008) |
| 416118.79 | 3746704.83 | 92.48918  | (14061606) | 416168.79 | 3746704.83 | 112.11325  | (13062306) |
| 416218.79 | 3746704.83 | 134.36780 | (12022608) | 416268.79 | 3746704.83 | 165.41793  | (16063006) |
| 416318.79 | 3746704.83 | 156.29468 | (13062406) | 416368.79 | 3746704.83 | 183.47316  | (12121216) |

|           |            |                        |           |            |                        |
|-----------|------------|------------------------|-----------|------------|------------------------|
| 416418.79 | 3746704.83 | 129.91404 (14012817)   | 416468.79 | 3746704.83 | 111.52645 (13021017)   |
| 416518.79 | 3746704.83 | 99.60021 (12060506)    | 416302.62 | 3746499.91 | 15974.25896 (14041707) |
| 416312.84 | 3746498.80 | 31991.95632 (13091107) | 416322.84 | 3746499.46 | 17476.08050 (16090907) |
| 416332.84 | 3746498.80 | 6015.63322 (13090518)  | 416342.39 | 3746499.24 | 3144.43502 (13090518)  |
| 416190.87 | 3746435.25 | 251.00799 (15031218)   | 416189.75 | 3746447.47 | 261.69072 (15031218)   |
| 416301.03 | 3746253.85 | 105.76531 (13091107)   | 416335.27 | 3746290.44 | 130.02217 (13122322)   |
| 416331.87 | 3746279.46 | 120.07704 (13122322)   | 416361.93 | 3746288.35 | 126.07764 (13041207)   |
| 416370.04 | 3746286.52 | 131.13286 (13041207)   | 416384.15 | 3746286.52 | 136.66529 (13041207)   |
| 416388.59 | 3746285.74 | 135.66653 (13041207)   | 416400.10 | 3746294.10 | 137.05975 (13041207)   |
| 416406.37 | 3746294.62 | 131.30437 (13041207)   | 416409.51 | 3746291.23 | 126.07646 (13041207)   |
| 416422.31 | 3746291.23 | 109.90449 (13041207)   | 416428.85 | 3746288.87 | 106.56643 (13060506)   |
| 416444.80 | 3746287.83 | 103.63993 (13060506)   | 416448.19 | 3746291.75 | 104.59915 (13060506)   |
| 416459.69 | 3746291.75 | 99.66262 (13060506)    | 416466.23 | 3746288.87 | 95.44334 (13060506)    |
| 416481.65 | 3746287.04 | 88.05726 (16020803)    | 416485.31 | 3746291.23 | 88.93454 (15030202)    |
| 416499.95 | 3746290.96 | 85.19614 (15030202)    | 416505.44 | 3746288.35 | 82.75762 (15030202)    |
| 416520.34 | 3746287.31 | 77.59834 (15030520)    | 416525.57 | 3746291.23 | 77.88140 (15030520)    |
| 416540.99 | 3746294.62 | 75.10805 (16112918)    | 416545.17 | 3746289.92 | 72.94678 (16112918)    |
| 416557.98 | 3746293.58 | 72.87950 (16090907)    | 416562.95 | 3746288.35 | 69.87968 (16090907)    |
| 416578.63 | 3746286.26 | 67.54916 (16090907)    | 416580.72 | 3746290.18 | 68.42343 (16090907)    |
| 416595.36 | 3746289.13 | 64.43173 (16090907)    | 416600.85 | 3746291.49 | 62.82424 (16090907)    |
| 416614.97 | 3746286.52 | 58.72977 (15101919)    | 416619.15 | 3746289.66 | 58.07406 (15101919)    |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL2 \*\*\*

INCLUDING SOURCE(S): VOL2 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC (YYMMDDHH)     | X-COORD (M) | Y-COORD (M) | CONC (YYMMDDHH)     |
|-------------|-------------|---------------------|-------------|-------------|---------------------|
| 416629.34   | 3746289.40  | 56.74975 (15060919) | 416637.18   | 3746292.53  | 56.19797 (15060919) |
| 416649.99   | 3746292.27  | 54.16530 (15060919) | 416655.48   | 3746286.52  | 52.66947 (15060919) |
| 416669.34   | 3746284.43  | 50.37888 (15060919) | 416672.73   | 3746287.83  | 50.08618 (15060919) |
| 416686.33   | 3746289.13  | 47.86231 (15060919) | 416691.03   | 3746287.83  | 47.03564 (15060919) |
| 416703.58   | 3746287.83  | 44.90391 (13110117) | 416709.07   | 3746290.18  | 44.20964 (13110117) |
| 416725.01   | 3746283.65  | 41.93630 (13071522) | 416718.22   | 3746289.66  | 43.15455 (13071522) |
| 416727.89   | 3746288.09  | 42.05463 (14120717) | 416740.17   | 3746287.57  | 40.93601 (14120717) |
| 416745.93   | 3746284.43  | 40.13603 (14120717) | 416761.09   | 3746284.43  | 38.82373 (14120717) |
| 416764.75   | 3746287.04  | 38.66940 (14120717) | 416777.29   | 3746286.52  | 37.47750 (14120717) |
| 416782.78   | 3746288.09  | 37.02686 (14120717) | 416572.62   | 3746354.48  | 80.91584 (15060919) |
| 416583.60   | 3746355.01  | 76.53501 (15060919) | 416576.54   | 3746367.55  | 81.23640 (14120717) |
| 416582.81   | 3746368.86  | 79.76665 (14120717) | 416586.21   | 3746371.48  | 79.33601 (14120717) |
| 416587.26   | 3746353.70  | 75.06076 (15060919) | 416600.07   | 3746355.53  | 71.80712 (14120717) |
| 416605.03   | 3746368.08  | 72.98865 (14120717) | 416612.61   | 3746375.66  | 72.20924 (12090419) |
| 416608.95   | 3746356.58  | 69.95565 (14120717) | 416621.76   | 3746357.62  | 67.01146 (14120717) |
| 416622.28   | 3746371.74  | 69.00769 (12090419) | 416625.68   | 3746370.95  | 68.01013 (12090419) |
| 416640.32   | 3746372.26  | 64.29705 (12090419) | 416625.94   | 3746355.27  | 65.67692 (14120717) |
| 416635.62   | 3746355.53  | 63.41226 (14120717) | 416641.89   | 3746373.31  | 63.94281 (12090419) |

|           |            |          |            |           |            |          |            |
|-----------|------------|----------|------------|-----------|------------|----------|------------|
| 416654.17 | 3746374.35 | 61.93787 | (15112508) | 416643.20 | 3746360.50 | 62.54281 | (12090419) |
| 416652.61 | 3746360.50 | 60.48565 | (12090419) | 416656.79 | 3746375.40 | 61.66648 | (15112508) |
| 416663.59 | 3746375.40 | 60.40252 | (15112508) | 416658.10 | 3746356.31 | 58.93517 | (12090419) |
| 416668.29 | 3746357.36 | 56.94302 | (12090419) | 416672.21 | 3746353.18 | 55.87758 | (12090419) |
| 416676.92 | 3746353.18 | 54.97650 | (12090419) | 416731.81 | 3746458.47 | 52.19577 | (13033018) |
| 416731.03 | 3746466.83 | 52.67981 | (13033018) | 416742.01 | 3746473.63 | 50.77825 | (13033018) |
| 416731.03 | 3746411.68 | 50.32628 | (13090718) | 416731.03 | 3746425.01 | 51.07161 | (13090718) |
| 416681.62 | 3746375.61 | 57.12486 | (15112508) | 416698.09 | 3746375.87 | 54.20773 | (15112508) |
| 416703.58 | 3746376.65 | 53.29864 | (15112508) | 416703.58 | 3746357.83 | 51.28134 | (15112508) |
| 416714.56 | 3746373.51 | 51.24892 | (15112508) | 416723.97 | 3746372.99 | 49.69799 | (15112508) |
| 416749.85 | 3746377.17 | 45.69034 | (15112508) | 416759.00 | 3746375.34 | 44.33950 | (15112508) |
| 416774.16 | 3746375.34 | 42.16434 | (15112508) | 416758.21 | 3746413.77 | 46.47480 | (13090718) |
| 416756.65 | 3746428.41 | 46.94017 | (13090718) | 416751.16 | 3746474.68 | 49.34458 | (12070919) |
| 416781.48 | 3746473.63 | 44.89052 | (12070919) | 416756.38 | 3746455.59 | 48.09101 | (13033018) |
| 416773.90 | 3746452.98 | 45.45954 | (13033018) | 416140.28 | 3746195.97 | 64.77364 | (16112908) |
| 416158.30 | 3746194.91 | 65.07905 | (16112908) | 416172.61 | 3746195.44 | 66.28247 | (13010208) |
| 416190.09 | 3746196.50 | 68.73811 | (13122324) | 416220.03 | 3746195.97 | 85.85941 | (13091107) |
| 416239.64 | 3746195.17 | 97.10456 | (13091107) | 416250.77 | 3746195.17 | 98.98911 | (13091107) |
| 416267.19 | 3746194.91 | 94.64522 | (13091107) | 416086.50 | 3746243.39 | 69.19468 | (14092107) |
| 416067.16 | 3746248.16 | 73.91770 | (14092107) | 416057.36 | 3746252.67 | 73.42946 | (14092107) |
| 416049.67 | 3746254.52 | 70.97379 | (14092107) | 416043.58 | 3746258.23 | 68.08512 | (14092107) |
| 416038.28 | 3746258.76 | 65.19695 | (14092107) | 416032.45 | 3746255.32 | 62.58892 | (14092107) |

\*\*\* AERMOD - VERSION 19191 \*\*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL2 \*\*\*

INCLUDING SOURCE(S): VOL2 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC     | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC     | (YYMMDDHH) |
|-------------|-------------|----------|------------|-------------|-------------|----------|------------|
| 416026.09   | 3746256.91  | 58.60783 | (14092107) | 416013.38   | 3746259.03  | 55.08990 | (15050803) |
| 416008.87   | 3746260.88  | 54.77118 | (15050803) | 416004.90   | 3746261.94  | 54.33575 | (15050803) |
| 415999.33   | 3746267.24  | 54.02177 | (15050803) | 415984.76   | 3746268.03  | 52.10660 | (16122701) |
| 415970.45   | 3746270.42  | 50.27951 | (16122701) | 415958.53   | 3746270.68  | 48.40109 | (16122701) |
| 415946.61   | 3746271.21  | 46.59212 | (16101920) | 415936.81   | 3746273.07  | 45.95077 | (15031218) |
| 415924.09   | 3746272.80  | 44.91183 | (15031218) | 415913.49   | 3746272.01  | 43.90417 | (15031218) |
| 415899.45   | 3746273.33  | 42.74369 | (15031218) | 415883.29   | 3746274.92  | 41.22605 | (15031218) |
| 415892.30   | 3746272.01  | 41.93386 | (15031218) | 415864.21   | 3746276.25  | 39.22565 | (15031218) |
| 415856.79   | 3746275.98  | 38.40026 | (15031218) | 415843.81   | 3746275.19  | 36.96007 | (15031218) |
| 415834.27   | 3746274.66  | 35.91540 | (15031218) | 415821.55   | 3746275.72  | 34.51815 | (15031218) |
| 415809.63   | 3746274.39  | 33.26074 | (15031218) | 415797.44   | 3746276.78  | 32.12736 | (15100506) |
| 415787.11   | 3746276.25  | 31.33453 | (15100506) |             |             |          |            |

\*\*\* AERMOD - VERSION 19191 \*\*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL3 \*\*\*

INCLUDING SOURCE(S): VOL3 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3

\*\*

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC |
|-------------|-------------|------|------------|-------------|-------------|------|
| (YYMMDDHH)  |             |      |            |             |             |      |

|           |            |            |            |           |            |                       |
|-----------|------------|------------|------------|-----------|------------|-----------------------|
| 416018.79 | 3746204.83 | 57.16083   | (14092107) | 416068.79 | 3746204.83 | 55.92002 (13121005)   |
| 416118.79 | 3746204.83 | 65.00082   | (16112908) | 416168.79 | 3746204.83 | 69.47769 (13010208)   |
| 416218.79 | 3746204.83 | 95.50821   | (13091107) | 416268.79 | 3746204.83 | 93.52682 (13091107)   |
| 416318.79 | 3746204.83 | 78.74738   | (13102523) | 416368.79 | 3746204.83 | 77.26701 (16122705)   |
| 416418.79 | 3746204.83 | 78.57920   | (13041207) | 416468.79 | 3746204.83 | 65.81900 (13060506)   |
| 416518.79 | 3746204.83 | 58.32521   | (16020803) | 416018.79 | 3746254.83 | 60.65796 (14092107)   |
| 416068.79 | 3746254.83 | 77.39869   | (14092107) | 416118.79 | 3746254.83 | 75.72769 (15021808)   |
| 416168.79 | 3746254.83 | 88.70033   | (16112908) | 416218.79 | 3746254.83 | 114.23910 (13091107)  |
| 416268.79 | 3746254.83 | 136.96106  | (13091107) | 416318.79 | 3746254.83 | 102.27315 (13102523)  |
| 416368.79 | 3746254.83 | 104.20588  | (13041207) | 416418.79 | 3746254.83 | 94.19228 (13041207)   |
| 416468.79 | 3746254.83 | 80.99309   | (13060506) | 416518.79 | 3746254.83 | 68.51722 (15030202)   |
| 416018.79 | 3746304.83 | 64.97767   | (16122701) | 416068.79 | 3746304.83 | 82.52727 (14092107)   |
| 416118.79 | 3746304.83 | 111.21327  | (14092107) | 416168.79 | 3746304.83 | 111.33249 (15071821)  |
| 416218.79 | 3746304.83 | 127.79120  | (13091107) | 416268.79 | 3746304.83 | 208.94813 (13091107)  |
| 416318.79 | 3746304.83 | 142.89391  | (13122322) | 416368.79 | 3746304.83 | 157.65207 (13041207)  |
| 416418.79 | 3746304.83 | 118.25674  | (13060506) | 416468.79 | 3746304.83 | 96.74646 (15030202)   |
| 416518.79 | 3746304.83 | 81.02252   | (16112918) | 416018.79 | 3746354.83 | 74.98402 (15031218)   |
| 416068.79 | 3746354.83 | 88.94749   | (15031218) | 416118.79 | 3746354.83 | 119.35499 (14092107)  |
| 416168.79 | 3746354.83 | 175.68994  | (14092107) | 416218.79 | 3746354.83 | 201.82011 (14090207)  |
| 416268.79 | 3746354.83 | 334.45760  | (13091107) | 416318.79 | 3746354.83 | 226.83046 (15040807)  |
| 416368.79 | 3746354.83 | 229.87001  | (13041207) | 416418.79 | 3746354.83 | 152.56706 (16020803)  |
| 416468.79 | 3746354.83 | 131.35679  | (16090907) | 416518.79 | 3746354.83 | 102.40522 (16090907)  |
| 416018.79 | 3746404.83 | 81.67662   | (12112108) | 416068.79 | 3746404.83 | 100.81519 (15031218)  |
| 416118.79 | 3746404.83 | 139.55382  | (15031218) | 416168.79 | 3746404.83 | 188.97090 (14092107)  |
| 416218.79 | 3746404.83 | 328.09476  | (14092107) | 416268.79 | 3746404.83 | 560.15455 (13091107)  |
| 416318.79 | 3746404.83 | 423.45337  | (13041207) | 416368.79 | 3746404.83 | 313.09070 (13060506)  |
| 416418.79 | 3746404.83 | 251.03275  | (16090907) | 416468.79 | 3746404.83 | 154.10382 (15060919)  |
| 416518.79 | 3746404.83 | 113.60504  | (12090419) | 416018.79 | 3746454.83 | 92.76682 (15100607)   |
| 416068.79 | 3746454.83 | 120.72371  | (15100607) | 416118.79 | 3746454.83 | 167.70807 (12112108)  |
| 416168.79 | 3746454.83 | 243.72730  | (12112108) | 416218.79 | 3746454.83 | 430.06338 (15031218)  |
| 416268.79 | 3746454.83 | 1035.86749 | (14092107) | 416318.79 | 3746454.83 | 1309.12433 (13041207) |
| 416368.79 | 3746454.83 | 647.77927  | (16090907) | 416418.79 | 3746454.83 | 290.48112 (12090419)  |
| 416468.79 | 3746454.83 | 186.10694  | (15112508) | 416518.79 | 3746454.83 | 130.28917 (13090718)  |
| 416018.79 | 3746504.83 | 94.71225   | (14092507) | 416068.79 | 3746504.83 | 125.61018 (14092507)  |
| 416118.79 | 3746504.83 | 178.70358  | (14092507) | 416168.79 | 3746504.83 | 285.67697 (14092507)  |
| 416218.79 | 3746504.83 | 575.44002  | (14092507) | 416268.79 | 3746504.83 | 2742.06709 (13121916) |
| 416318.79 | 3746504.83 | 9481.86840 | (12091207) | 416368.79 | 3746504.83 | 832.17776 (12090318)  |
| 416418.79 | 3746504.83 | 355.11512  | (12090318) | 416468.79 | 3746504.83 | 208.42031 (12090318)  |
| 416518.79 | 3746504.83 | 141.46805  | (12090318) | 416018.79 | 3746554.83 | 91.36520 (14112208)   |
| 416068.79 | 3746554.83 | 120.38427  | (14032807) | 416118.79 | 3746554.83 | 169.95196 (14032807)  |

\*\*\* AERMOD - VERSION 19191 \*\*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL3 \*\*\*

INCLUDING SOURCE(S): VOL3 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC (YYMMDDHH) |
|-------------|-------------|-----------------|-------------|-------------|-----------------|
|-------------|-------------|-----------------|-------------|-------------|-----------------|

|           |            |                        |           |            |                        |
|-----------|------------|------------------------|-----------|------------|------------------------|
| 416168.79 | 3746554.83 | 273.79725 (15041407)   | 416218.79 | 3746554.83 | 512.69385 (15041407)   |
| 416268.79 | 3746554.83 | 930.95682 (13062306)   | 416318.79 | 3746554.83 | 1522.00721 (12121216)  |
| 416368.79 | 3746554.83 | 590.83591 (12060506)   | 416418.79 | 3746554.83 | 314.08662 (14090718)   |
| 416468.79 | 3746554.83 | 191.87651 (15032718)   | 416518.79 | 3746554.83 | 136.69852 (15032718)   |
| 416018.79 | 3746604.83 | 84.20002 (14032807)    | 416068.79 | 3746604.83 | 111.33837 (15041407)   |
| 416118.79 | 3746604.83 | 156.67819 (15041407)   | 416168.79 | 3746604.83 | 201.81534 (12113008)   |
| 416218.79 | 3746604.83 | 282.10232 (15021708)   | 416268.79 | 3746604.83 | 437.46762 (14090107)   |
| 416318.79 | 3746604.83 | 502.23860 (12121216)   | 416368.79 | 3746604.83 | 358.91371 (16081807)   |
| 416418.79 | 3746604.83 | 248.08993 (12060506)   | 416468.79 | 3746604.83 | 165.45214 (14090718)   |
| 416518.79 | 3746604.83 | 125.00507 (14090718)   | 416018.79 | 3746654.83 | 75.46320 (15041407)    |
| 416068.79 | 3746654.83 | 95.75363 (12113008)    | 416118.79 | 3746654.83 | 117.83992 (12113008)   |
| 416168.79 | 3746654.83 | 148.50490 (14061606)   | 416218.79 | 3746654.83 | 196.12468 (13062306)   |
| 416268.79 | 3746654.83 | 270.11628 (16063006)   | 416318.79 | 3746654.83 | 246.80536 (16091207)   |
| 416368.79 | 3746654.83 | 236.14024 (12121216)   | 416418.79 | 3746654.83 | 170.17930 (13021017)   |
| 416468.79 | 3746654.83 | 142.20712 (12060506)   | 416518.79 | 3746654.83 | 101.68407 (13062919)   |
| 416018.79 | 3746704.83 | 70.13828 (12113008)    | 416068.79 | 3746704.83 | 79.05645 (12062206)    |
| 416118.79 | 3746704.83 | 96.07489 (14061606)    | 416168.79 | 3746704.83 | 118.99218 (13062306)   |
| 416218.79 | 3746704.83 | 136.18880 (14090107)   | 416268.79 | 3746704.83 | 180.21682 (16063006)   |
| 416318.79 | 3746704.83 | 156.84726 (13062406)   | 416368.79 | 3746704.83 | 179.59148 (12121216)   |
| 416418.79 | 3746704.83 | 125.40339 (14020617)   | 416468.79 | 3746704.83 | 108.47444 (13021017)   |
| 416518.79 | 3746704.83 | 93.15746 (12060506)    | 416302.62 | 3746499.91 | 31865.89060 (12061706) |
| 416312.84 | 3746498.80 | 17494.75937 (16090907) | 416322.84 | 3746499.46 | 6193.57457 (13090518)  |
| 416332.84 | 3746498.80 | 3039.06412 (13090518)  | 416342.39 | 3746499.24 | 1908.47551 (12091207)  |
| 416190.87 | 3746435.25 | 272.20274 (15031218)   | 416189.75 | 3746447.47 | 292.61371 (15031218)   |
| 416301.03 | 3746253.85 | 101.91999 (15050405)   | 416335.27 | 3746290.44 | 129.60944 (13122322)   |
| 416331.87 | 3746279.46 | 121.02828 (13122322)   | 416361.93 | 3746288.35 | 134.63300 (13041207)   |
| 416370.04 | 3746286.52 | 136.04710 (13041207)   | 416384.15 | 3746286.52 | 134.80698 (13041207)   |
| 416388.59 | 3746285.74 | 131.94953 (13041207)   | 416400.10 | 3746294.10 | 126.77594 (13041207)   |
| 416406.37 | 3746294.62 | 118.94651 (13041207)   | 416409.51 | 3746291.23 | 113.73280 (13041207)   |
| 416422.31 | 3746291.23 | 108.02307 (13060506)   | 416428.85 | 3746288.87 | 105.56184 (13060506)   |
| 416444.80 | 3746287.83 | 100.34592 (13060506)   | 416448.19 | 3746291.75 | 100.39274 (13060506)   |
| 416459.69 | 3746291.75 | 94.40438 (16020803)    | 416466.23 | 3746288.87 | 90.84381 (16020803)    |
| 416481.65 | 3746287.04 | 85.87608 (15030202)    | 416485.31 | 3746291.23 | 86.60227 (15030202)    |
| 416499.95 | 3746290.96 | 81.94791 (15030202)    | 416505.44 | 3746288.35 | 79.44579 (15030202)    |
| 416520.34 | 3746287.31 | 75.66987 (15030520)    | 416525.57 | 3746291.23 | 75.43849 (15030520)    |
| 416540.99 | 3746294.62 | 73.60322 (16090907)    | 416545.17 | 3746289.92 | 70.76947 (16090907)    |
| 416557.98 | 3746293.58 | 71.89793 (16090907)    | 416562.95 | 3746288.35 | 69.10908 (16090907)    |
| 416578.63 | 3746286.26 | 65.68489 (16090907)    | 416580.72 | 3746290.18 | 65.93354 (16090907)    |
| 416595.36 | 3746289.13 | 61.17510 (16090907)    | 416600.85 | 3746291.49 | 60.09331 (15101919)    |
| 416614.97 | 3746286.52 | 56.67918 (15060919)    | 416619.15 | 3746289.66 | 56.82428 (15060919)    |

\*\*\* AERMOD - VERSION 19191 \*\*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 20:02:04

\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL3 \*\*\*

INCLUDING SOURCE(S): VOL3 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC |
|-------------|-------------|------|------------|-------------|-------------|------|
| (YYMMDDHH)  |             |      |            |             |             |      |

|           |            |          |            |           |            |                     |
|-----------|------------|----------|------------|-----------|------------|---------------------|
| 416629.34 | 3746289.40 | 55.39954 | (15060919) | 416637.18 | 3746292.53 | 54.64676 (15060919) |
| 416649.99 | 3746292.27 | 52.51252 | (15060919) | 416655.48 | 3746286.52 | 51.14804 (15060919) |
| 416669.34 | 3746284.43 | 48.82617 | (15060919) | 416672.73 | 3746287.83 | 48.43225 (15060919) |
| 416686.33 | 3746289.13 | 46.14330 | (15060919) | 416691.03 | 3746287.83 | 45.33742 (15060919) |
| 416703.58 | 3746287.83 | 43.49977 | (13110117) | 416709.07 | 3746290.18 | 43.10577 (13071522) |
| 416725.01 | 3746283.65 | 40.95374 | (14120717) | 416718.22 | 3746289.66 | 42.20691 (14120717) |
| 416727.89 | 3746288.09 | 41.18835 | (14120717) | 416740.17 | 3746287.57 | 40.04244 (14120717) |
| 416745.93 | 3746284.43 | 39.27626 | (14120717) | 416761.09 | 3746284.43 | 37.93327 (14120717) |
| 416764.75 | 3746287.04 | 37.73955 | (14120717) | 416777.29 | 3746286.52 | 36.54353 (14120717) |
| 416782.78 | 3746288.09 | 36.19863 | (12090419) | 416572.62 | 3746354.48 | 76.91463 (15060919) |
| 416583.60 | 3746355.01 | 73.13172 | (14120717) | 416576.54 | 3746367.55 | 78.33573 (14120717) |
| 416582.81 | 3746368.86 | 76.76388 | (14120717) | 416586.21 | 3746371.48 | 76.18047 (14120717) |
| 416587.26 | 3746353.70 | 71.94769 | (14120717) | 416600.07 | 3746355.53 | 69.47555 (14120717) |
| 416605.03 | 3746368.08 | 70.33053 | (12090419) | 416612.61 | 3746375.66 | 69.35456 (12090419) |
| 416608.95 | 3746356.58 | 67.54358 | (14120717) | 416621.76 | 3746357.62 | 64.57088 (12090419) |
| 416622.28 | 3746371.74 | 66.35804 | (12090419) | 416625.68 | 3746370.95 | 65.40605 (12090419) |
| 416640.32 | 3746372.26 | 62.16160 | (15112508) | 416625.94 | 3746355.27 | 63.31071 (14120717) |
| 416635.62 | 3746355.53 | 61.37981 | (12090419) | 416641.89 | 3746373.31 | 62.12498 (15112508) |
| 416654.17 | 3746374.35 | 60.11297 | (15112508) | 416643.20 | 3746360.50 | 60.35743 (12090419) |
| 416652.61 | 3746360.50 | 58.32798 | (12090419) | 416656.79 | 3746375.40 | 59.81057 (15112508) |
| 416663.59 | 3746375.40 | 58.56031 | (15112508) | 416658.10 | 3746356.31 | 56.91117 (12090419) |
| 416668.29 | 3746357.36 | 54.92404 | (12090419) | 416672.21 | 3746353.18 | 53.97186 (12090419) |
| 416676.92 | 3746353.18 | 53.08483 | (12090419) | 416731.81 | 3746458.47 | 50.52134 (13033018) |
| 416731.03 | 3746466.83 | 50.94349 | (13033018) | 416742.01 | 3746473.63 | 49.13499 (12070919) |
| 416731.03 | 3746411.68 | 48.82228 | (13090718) | 416731.03 | 3746425.01 | 49.40918 (13090718) |
| 416681.62 | 3746375.61 | 55.32949 | (15112508) | 416698.09 | 3746375.87 | 52.46995 (15112508) |
| 416703.58 | 3746376.65 | 51.56930 | (15112508) | 416703.58 | 3746357.83 | 49.94805 (15112508) |
| 416714.56 | 3746373.51 | 49.62450 | (15112508) | 416723.97 | 3746372.99 | 48.12137 (15112508) |
| 416749.85 | 3746377.17 | 44.17941 | (15112508) | 416759.00 | 3746375.34 | 42.89240 (15112508) |
| 416774.16 | 3746375.34 | 40.87975 | (13101817) | 416758.21 | 3746413.77 | 45.10259 (13090718) |
| 416756.65 | 3746428.41 | 45.44682 | (12090518) | 416751.16 | 3746474.68 | 47.81778 (12070919) |
| 416781.48 | 3746473.63 | 43.58918 | (12070919) | 416756.38 | 3746455.59 | 46.63552 (13033018) |
| 416773.90 | 3746452.98 | 44.13963 | (13033018) | 416140.28 | 3746195.97 | 65.40359 (16112908) |
| 416158.30 | 3746194.91 | 65.69353 | (13010208) | 416172.61 | 3746195.44 | 66.92961 (13122324) |
| 416190.09 | 3746196.50 | 70.30711 | (15090918) | 416220.03 | 3746195.97 | 92.93669 (13091107) |
| 416239.64 | 3746195.17 | 98.97037 | (13091107) | 416250.77 | 3746195.17 | 97.42137 (13091107) |
| 416267.19 | 3746194.91 | 88.30885 | (13091107) | 416086.50 | 3746243.39 | 66.92080 (16122622) |
| 416067.16 | 3746248.16 | 73.93143 | (14092107) | 416057.36 | 3746252.67 | 75.61439 (14092107) |
| 416049.67 | 3746254.52 | 74.44093 | (14092107) | 416043.58 | 3746258.23 | 72.74164 (14092107) |
| 416038.28 | 3746258.76 | 70.37116 | (14092107) | 416032.45 | 3746255.32 | 67.75876 (14092107) |

\*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL3 \*\*\*

INCLUDING SOURCE(S): VOL3 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|-------------|-------------|------|------------|-------------|-------------|------|------------|
|-------------|-------------|------|------------|-------------|-------------|------|------------|

|           |            |          |            |           |            |          |            |
|-----------|------------|----------|------------|-----------|------------|----------|------------|
| 416026.09 | 3746256.91 | 64.30023 | (14092107) | 416013.38 | 3746259.03 | 56.37368 | (14092107) |
| 416008.87 | 3746260.88 | 56.10562 | (15050803) | 416004.90 | 3746261.94 | 55.77236 | (15050803) |
| 415999.33 | 3746267.24 | 55.71752 | (15050803) | 415984.76 | 3746268.03 | 53.39357 | (16122701) |
| 415970.45 | 3746270.42 | 51.78680 | (16122701) | 415958.53 | 3746270.68 | 50.00084 | (16122701) |
| 415946.61 | 3746271.21 | 48.11189 | (16122701) | 415936.81 | 3746273.07 | 46.74708 | (16101920) |
| 415924.09 | 3746272.80 | 45.70327 | (15031218) | 415913.49 | 3746272.01 | 44.75102 | (15031218) |
| 415899.45 | 3746273.33 | 43.69238 | (15031218) | 415883.29 | 3746274.92 | 42.26296 | (15031218) |
| 415892.30 | 3746272.01 | 42.88941 | (15031218) | 415864.21 | 3746276.25 | 40.32210 | (15031218) |
| 415856.79 | 3746275.98 | 39.50083 | (15031218) | 415843.81 | 3746275.19 | 38.05735 | (15031218) |
| 415834.27 | 3746274.66 | 37.00655 | (15031218) | 415821.55 | 3746275.72 | 35.61263 | (15031218) |
| 415809.63 | 3746274.39 | 34.33149 | (15031218) | 415797.44 | 3746276.78 | 32.96219 | (15031218) |
| 415787.11 | 3746276.25 | 32.08626 | (15100506) |           |            |          |            |

\*\*\* AERMOD - VERSION 19191 \*\*\* \*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* 20:02:04

\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL4 \*\*\*

INCLUDING SOURCE(S): VOL4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|-------------|-------------|------|------------|-------------|-------------|------|------------|
|-------------|-------------|------|------------|-------------|-------------|------|------------|

|           |            |           |            |           |            |           |            |
|-----------|------------|-----------|------------|-----------|------------|-----------|------------|
| 416018.79 | 3746204.83 | 52.83446  | (14092107) | 416068.79 | 3746204.83 | 55.26792  | (14092107) |
| 416118.79 | 3746204.83 | 59.29912  | (15021808) | 416168.79 | 3746204.83 | 67.87478  | (16112908) |
| 416218.79 | 3746204.83 | 72.46702  | (13122324) | 416268.79 | 3746204.83 | 104.44974 | (13091107) |
| 416318.79 | 3746204.83 | 78.79897  | (15050405) | 416368.79 | 3746204.83 | 79.84175  | (13122322) |
| 416418.79 | 3746204.83 | 78.23784  | (13041207) | 416468.79 | 3746204.83 | 70.23105  | (13041207) |
| 416518.79 | 3746204.83 | 64.39338  | (13060506) | 416018.79 | 3746254.83 | 52.53207  | (15050803) |
| 416068.79 | 3746254.83 | 70.62341  | (14092107) | 416118.79 | 3746254.83 | 73.99005  | (14092107) |
| 416168.79 | 3746254.83 | 81.47502  | (15071821) | 416218.79 | 3746254.83 | 90.12890  | (13010208) |
| 416268.79 | 3746254.83 | 138.16907 | (13091107) | 416318.79 | 3746254.83 | 110.47256 | (13091107) |
| 416368.79 | 3746254.83 | 103.80148 | (13122322) | 416418.79 | 3746254.83 | 109.23167 | (13041207) |
| 416468.79 | 3746254.83 | 85.93109  | (13060506) | 416518.79 | 3746254.83 | 74.33443  | (16020803) |
| 416018.79 | 3746304.83 | 58.14382  | (16101920) | 416068.79 | 3746304.83 | 69.20526  | (15050803) |
| 416118.79 | 3746304.83 | 99.51101  | (14092107) | 416168.79 | 3746304.83 | 104.42582 | (14092107) |

|           |            |             |            |           |            |            |            |
|-----------|------------|-------------|------------|-----------|------------|------------|------------|
| 416218.79 | 3746304.83 | 122.80899   | (14090207) | 416268.79 | 3746304.83 | 179.91429  | (13091107) |
| 416318.79 | 3746304.83 | 177.24591   | (13091107) | 416368.79 | 3746304.83 | 141.59796  | (13122322) |
| 416418.79 | 3746304.83 | 146.13574   | (13041207) | 416468.79 | 3746304.83 | 110.39471  | (13060506) |
| 416518.79 | 3746304.83 | 89.66422    | (15030202) | 416018.79 | 3746354.83 | 65.93471   | (15031218) |
| 416068.79 | 3746354.83 | 80.95134    | (15031218) | 416118.79 | 3746354.83 | 98.08473   | (16122701) |
| 416168.79 | 3746354.83 | 152.34903   | (14092107) | 416218.79 | 3746354.83 | 159.29101  | (14092107) |
| 416268.79 | 3746354.83 | 220.07729   | (13091107) | 416318.79 | 3746354.83 | 311.00665  | (13091107) |
| 416368.79 | 3746354.83 | 239.47751   | (13041207) | 416418.79 | 3746354.83 | 180.97798  | (13060506) |
| 416468.79 | 3746354.83 | 139.39222   | (15030202) | 416518.79 | 3746354.83 | 125.48015  | (16090907) |
| 416018.79 | 3746404.83 | 73.88240    | (12112108) | 416068.79 | 3746404.83 | 88.02682   | (13012508) |
| 416118.79 | 3746404.83 | 115.37128   | (15031218) | 416168.79 | 3746404.83 | 155.99682  | (15031218) |
| 416218.79 | 3746404.83 | 267.91837   | (14092107) | 416268.79 | 3746404.83 | 370.64806  | (14090207) |
| 416318.79 | 3746404.83 | 633.68032   | (13091107) | 416368.79 | 3746404.83 | 463.55688  | (13041207) |
| 416418.79 | 3746404.83 | 263.36111   | (15030202) | 416468.79 | 3746404.83 | 217.74806  | (16090907) |
| 416518.79 | 3746404.83 | 133.09457   | (14120717) | 416018.79 | 3746454.83 | 80.41394   | (15100607) |
| 416068.79 | 3746454.83 | 102.66155   | (15100607) | 416118.79 | 3746454.83 | 136.38363  | (12112108) |
| 416168.79 | 3746454.83 | 194.08040   | (12112108) | 416218.79 | 3746454.83 | 294.72149  | (15031218) |
| 416268.79 | 3746454.83 | 659.36600   | (14092107) | 416318.79 | 3746454.83 | 1723.15471 | (13091107) |
| 416368.79 | 3746454.83 | 853.01579   | (13080507) | 416418.79 | 3746454.83 | 439.89496  | (16090907) |
| 416468.79 | 3746454.83 | 241.73372   | (15112508) | 416518.79 | 3746454.83 | 157.62916  | (15112508) |
| 416018.79 | 3746504.83 | 81.85460    | (14092507) | 416068.79 | 3746504.83 | 105.33568  | (14092507) |
| 416118.79 | 3746504.83 | 143.15520   | (14092507) | 416168.79 | 3746504.83 | 211.74896  | (14092507) |
| 416218.79 | 3746504.83 | 363.56801   | (14092507) | 416268.79 | 3746504.83 | 869.12933  | (14092507) |
| 416318.79 | 3746504.83 | 13245.47661 | (13121916) | 416368.79 | 3746504.83 | 2292.72842 | (12091207) |
| 416418.79 | 3746504.83 | 556.95647   | (12090318) | 416468.79 | 3746504.83 | 280.09224  | (12090318) |
| 416518.79 | 3746504.83 | 176.22332   | (12090318) | 416018.79 | 3746554.83 | 79.81333   | (14112208) |
| 416068.79 | 3746554.83 | 101.32567   | (15051606) | 416118.79 | 3746554.83 | 137.46906  | (14032807) |

\*\*\* AERMOD - VERSION 19191 \*\*\* \*\*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL4 \*\*\*

INCLUDING SOURCE(S): VOL4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|-------------|-------------|------|------------|-------------|-------------|------|------------|
|-------------|-------------|------|------------|-------------|-------------|------|------------|

|           |            |            |            |           |            |            |            |
|-----------|------------|------------|------------|-----------|------------|------------|------------|
| 416168.79 | 3746554.83 | 197.42605  | (14032807) | 416218.79 | 3746554.83 | 368.45907  | (15041407) |
| 416268.79 | 3746554.83 | 588.52002  | (12113008) | 416318.79 | 3746554.83 | 1437.31846 | (16063006) |
| 416368.79 | 3746554.83 | 1010.29615 | (16081807) | 416418.79 | 3746554.83 | 449.88801  | (14090718) |
| 416468.79 | 3746554.83 | 245.56714  | (14090718) | 416518.79 | 3746554.83 | 166.75096  | (15032718) |
| 416018.79 | 3746604.83 | 75.73216   | (14032807) | 416068.79 | 3746604.83 | 90.12041   | (14032807) |
| 416118.79 | 3746604.83 | 131.31632  | (15041407) | 416168.79 | 3746604.83 | 164.93430  | (15041407) |
| 416218.79 | 3746604.83 | 222.20597  | (12113008) | 416268.79 | 3746604.83 | 339.34634  | (13062306) |
| 416318.79 | 3746604.83 | 569.85797  | (16063006) | 416368.79 | 3746604.83 | 518.02404  | (12121216) |
| 416418.79 | 3746604.83 | 310.82750  | (12060506) | 416468.79 | 3746604.83 | 193.68975  | (13062919) |
| 416518.79 | 3746604.83 | 149.47249  | (14090718) | 416018.79 | 3746654.83 | 66.80815   | (15041407) |
| 416068.79 | 3746654.83 | 81.09871   | (16061506) | 416118.79 | 3746654.83 | 105.72234  | (12113008) |
| 416168.79 | 3746654.83 | 126.38600  | (12062206) | 416218.79 | 3746654.83 | 165.01937  | (15021708) |

|           |            |             |            |           |            |             |            |
|-----------|------------|-------------|------------|-----------|------------|-------------|------------|
| 416268.79 | 3746654.83 | 223.21794   | (14090107) | 416318.79 | 3746654.83 | 293.73064   | (16063006) |
| 416368.79 | 3746654.83 | 286.81923   | (12121216) | 416418.79 | 3746654.83 | 191.61066   | (14020617) |
| 416468.79 | 3746654.83 | 166.58900   | (12060506) | 416518.79 | 3746654.83 | 115.34811   | (12012517) |
| 416018.79 | 3746704.83 | 62.62630    | (12113008) | 416068.79 | 3746704.83 | 74.35812    | (12113008) |
| 416118.79 | 3746704.83 | 84.23815    | (12062206) | 416168.79 | 3746704.83 | 103.80975   | (15021708) |
| 416218.79 | 3746704.83 | 128.28642   | (13062306) | 416268.79 | 3746704.83 | 143.33736   | (13021908) |
| 416318.79 | 3746704.83 | 174.11582   | (16063006) | 416368.79 | 3746704.83 | 161.82211   | (12121216) |
| 416418.79 | 3746704.83 | 147.27672   | (12121216) | 416468.79 | 3746704.83 | 115.58374   | (13041307) |
| 416518.79 | 3746704.83 | 105.36503   | (12060506) | 416302.62 | 3746499.91 | 3259.02505  | (14092007) |
| 416312.84 | 3746498.80 | 6504.04456  | (14092007) | 416322.84 | 3746499.46 | 15844.27764 | (14092107) |
| 416332.84 | 3746498.80 | 31991.95632 | (13091107) | 416342.39 | 3746499.24 | 18601.45288 | (16090907) |
| 416190.87 | 3746435.25 | 210.12797   | (15031218) | 416189.75 | 3746447.47 | 213.69413   | (14041707) |
| 416301.03 | 3746253.85 | 133.78143   | (13091107) | 416335.27 | 3746290.44 | 128.62960   | (13102523) |
| 416331.87 | 3746279.46 | 119.18595   | (15050405) | 416361.93 | 3746288.35 | 128.28343   | (13122322) |
| 416370.04 | 3746286.52 | 125.19120   | (13122322) | 416384.15 | 3746286.52 | 126.07481   | (13041207) |
| 416388.59 | 3746285.74 | 129.08234   | (13041207) | 416400.10 | 3746294.10 | 144.65930   | (13041207) |
| 416406.37 | 3746294.62 | 144.96597   | (13041207) | 416409.51 | 3746291.23 | 140.75115   | (13041207) |
| 416422.31 | 3746291.23 | 133.18459   | (13041207) | 416428.85 | 3746288.87 | 125.58788   | (13041207) |
| 416444.80 | 3746287.83 | 105.85863   | (13041207) | 416448.19 | 3746291.75 | 108.67233   | (13060506) |
| 416459.69 | 3746291.75 | 107.11747   | (13060506) | 416466.23 | 3746288.87 | 103.79038   | (13060506) |
| 416481.65 | 3746287.04 | 97.12603    | (13060506) | 416485.31 | 3746291.23 | 96.58763    | (13060506) |
| 416499.95 | 3746290.96 | 89.82032    | (16020803) | 416505.44 | 3746288.35 | 87.60849    | (15030202) |
| 416520.34 | 3746287.31 | 83.90604    | (15030202) | 416525.57 | 3746291.23 | 83.50895    | (15030202) |
| 416540.99 | 3746294.62 | 79.98527    | (15030520) | 416545.17 | 3746289.92 | 77.56101    | (15030520) |
| 416557.98 | 3746293.58 | 75.50690    | (16112918) | 416562.95 | 3746288.35 | 73.00157    | (16112918) |
| 416578.63 | 3746286.26 | 69.04354    | (16112918) | 416580.72 | 3746290.18 | 70.92632    | (16090907) |
| 416595.36 | 3746289.13 | 69.07140    | (16090907) | 416600.85 | 3746291.49 | 68.75236    | (16090907) |
| 416614.97 | 3746286.52 | 64.17244    | (16090907) | 416619.15 | 3746289.66 | 63.29919    | (16090907) |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL4 \*\*\*

INCLUDING SOURCE(S): VOL4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3

\*\*

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|-------------|-------------|------|------------|-------------|-------------|------|------------|
|-------------|-------------|------|------------|-------------|-------------|------|------------|

|           |            |          |            |           |            |          |            |
|-----------|------------|----------|------------|-----------|------------|----------|------------|
| 416629.34 | 3746289.40 | 60.22053 | (15101919) | 416637.18 | 3746292.53 | 58.92938 | (15060919) |
| 416649.99 | 3746292.27 | 57.19755 | (15060919) | 416655.48 | 3746286.52 | 55.43098 | (15060919) |
| 416669.34 | 3746284.43 | 53.27575 | (15060919) | 416672.73 | 3746287.83 | 53.23152 | (15060919) |
| 416686.33 | 3746289.13 | 51.21936 | (15060919) | 416691.03 | 3746287.83 | 50.36311 | (15060919) |
| 416703.58 | 3746287.83 | 48.29003 | (15060919) | 416709.07 | 3746290.18 | 47.40962 | (15060919) |
| 416725.01 | 3746283.65 | 44.67190 | (15060919) | 416718.22 | 3746289.66 | 45.81625 | (15060919) |
| 416727.89 | 3746288.09 | 44.31043 | (13110117) | 416740.17 | 3746287.57 | 42.76904 | (13071522) |
| 416745.93 | 3746284.43 | 41.91109 | (13071522) | 416761.09 | 3746284.43 | 40.54246 | (14120717) |
| 416764.75 | 3746287.04 | 40.48175 | (14120717) | 416777.29 | 3746286.52 | 39.31630 | (14120717) |
| 416782.78 | 3746288.09 | 38.91810 | (14120717) | 416572.62 | 3746354.48 | 88.80679 | (15060919) |
| 416583.60 | 3746355.01 | 84.59267 | (15060919) | 416576.54 | 3746367.55 | 89.12875 | (15060919) |

|           |            |          |            |           |            |          |            |
|-----------|------------|----------|------------|-----------|------------|----------|------------|
| 416582.81 | 3746368.86 | 86.05062 | (15060919) | 416586.21 | 3746371.48 | 85.60287 | (14120717) |
| 416587.26 | 3746353.70 | 82.95521 | (15060919) | 416600.07 | 3746355.53 | 77.97470 | (15060919) |
| 416605.03 | 3746368.08 | 78.90987 | (14120717) | 416612.61 | 3746375.66 | 78.03800 | (12090419) |
| 416608.95 | 3746356.58 | 74.65943 | (13071522) | 416621.76 | 3746357.62 | 71.91617 | (14120717) |
| 416622.28 | 3746371.74 | 74.40929 | (12090419) | 416625.68 | 3746370.95 | 73.32447 | (12090419) |
| 416640.32 | 3746372.26 | 69.60115 | (12090419) | 416625.94 | 3746355.27 | 70.38572 | (14120717) |
| 416635.62 | 3746355.53 | 68.16459 | (14120717) | 416641.89 | 3746373.31 | 69.30411 | (12090419) |
| 416654.17 | 3746374.35 | 66.05362 | (12090419) | 416643.20 | 3746360.50 | 67.01376 | (14120717) |
| 416652.61 | 3746360.50 | 64.87634 | (12090419) | 416656.79 | 3746375.40 | 65.40519 | (15112508) |
| 416663.59 | 3746375.40 | 64.13383 | (15112508) | 416658.10 | 3746356.31 | 63.03168 | (12090419) |
| 416668.29 | 3746357.36 | 61.07153 | (12090419) | 416672.21 | 3746353.18 | 59.75088 | (12090419) |
| 416676.92 | 3746353.18 | 58.83431 | (12090419) | 416731.81 | 3746458.47 | 55.82944 | (13033018) |
| 416731.03 | 3746466.83 | 56.46005 | (13033018) | 416742.01 | 3746473.63 | 54.39172 | (13033018) |
| 416731.03 | 3746411.68 | 53.51664 | (13090718) | 416731.03 | 3746425.01 | 54.63866 | (13090718) |
| 416681.62 | 3746375.61 | 60.80529 | (15112508) | 416698.09 | 3746375.87 | 57.79969 | (15112508) |
| 416703.58 | 3746376.65 | 56.88546 | (15112508) | 416703.58 | 3746357.83 | 53.94444 | (15112508) |
| 416714.56 | 3746373.51 | 54.61431 | (15112508) | 416723.97 | 3746372.99 | 52.97183 | (15112508) |
| 416749.85 | 3746377.17 | 48.86337 | (15112508) | 416759.00 | 3746375.34 | 47.37708 | (15112508) |
| 416774.16 | 3746375.34 | 45.05707 | (15112508) | 416758.21 | 3746413.77 | 49.39152 | (13090718) |
| 416756.65 | 3746428.41 | 50.16395 | (13090718) | 416751.16 | 3746474.68 | 52.67160 | (13033018) |
| 416781.48 | 3746473.63 | 47.69947 | (12070919) | 416756.38 | 3746455.59 | 51.23397 | (13033018) |
| 416773.90 | 3746452.98 | 48.30007 | (13033018) | 416140.28 | 3746195.97 | 61.71619 | (16112908) |
| 416158.30 | 3746194.91 | 64.31752 | (16112908) | 416172.61 | 3746195.44 | 65.29528 | (16112908) |
| 416190.09 | 3746196.50 | 66.30444 | (13010208) | 416220.03 | 3746195.97 | 70.19220 | (15090918) |
| 416239.64 | 3746195.17 | 85.32374 | (13091107) | 416250.77 | 3746195.17 | 93.05715 | (13091107) |
| 416267.19 | 3746194.91 | 98.65243 | (13091107) | 416086.50 | 3746243.39 | 71.89281 | (14092107) |
| 416067.16 | 3746248.16 | 69.60482 | (14092107) | 416057.36 | 3746252.67 | 65.50800 | (14092107) |
| 416049.67 | 3746254.52 | 61.21262 | (14092107) | 416043.58 | 3746258.23 | 56.73739 | (14092107) |
| 416038.28 | 3746258.76 | 55.64540 | (15050803) | 416032.45 | 3746255.32 | 54.34449 | (15050803) |

\*\*\* AERMOD - VERSION 19191 \*\*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL4 \*\*\*

INCLUDING SOURCE(S): VOL4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3

\*\*

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|-------------|-------------|------|------------|-------------|-------------|------|------------|
|-------------|-------------|------|------------|-------------|-------------|------|------------|

|           |            |          |            |           |            |          |            |
|-----------|------------|----------|------------|-----------|------------|----------|------------|
| 416026.09 | 3746256.91 | 53.80550 | (15050803) | 416013.38 | 3746259.03 | 52.22446 | (15050803) |
| 416008.87 | 3746260.88 | 51.66544 | (15050803) | 416004.90 | 3746261.94 | 51.28202 | (16122701) |
| 415999.33 | 3746267.24 | 51.26847 | (16122701) | 415984.76 | 3746268.03 | 49.21867 | (16122701) |
| 415970.45 | 3746270.42 | 47.06290 | (16122701) | 415958.53 | 3746270.68 | 45.65825 | (15031218) |
| 415946.61 | 3746271.21 | 44.88263 | (15031218) | 415936.81 | 3746273.07 | 44.32614 | (15031218) |
| 415924.09 | 3746272.80 | 43.13640 | (15031218) | 415913.49 | 3746272.01 | 42.04965 | (15031218) |
| 415899.45 | 3746273.33 | 40.73205 | (15031218) | 415883.29 | 3746274.92 | 39.08520 | (15031218) |
| 415892.30 | 3746272.01 | 39.92240 | (15031218) | 415864.21 | 3746276.25 | 37.01019 | (15031218) |
| 415856.79 | 3746275.98 | 36.18850 | (15031218) | 415843.81 | 3746275.19 | 34.77209 | (15031218) |
| 415834.27 | 3746274.66 | 33.75063 | (15031218) | 415821.55 | 3746275.72 | 32.40070 | (15100506) |

415809.63 3746274.39 31.47538 (15100506) 415797.44 3746276.78 30.61563 (15100506)  
415787.11 3746276.25 29.83380 (15100506)  
\*\*\* AERMOD - VERSION 19191 \*\*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* 20:02:04

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL5 \*\*\*

INCLUDING SOURCE(S): VOL5 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC |
|-------------|-------------|------|------------|-------------|-------------|------|
| (YYMMDDHH)  |             |      |            |             |             |      |

|           |            |            |            |           |            |                       |
|-----------|------------|------------|------------|-----------|------------|-----------------------|
| 416018.79 | 3746204.83 | 49.90338   | (14092107) | 416068.79 | 3746204.83 | 56.72967 (14092107)   |
| 416118.79 | 3746204.83 | 57.57021   | (15021808) | 416168.79 | 3746204.83 | 66.75075 (16112908)   |
| 416218.79 | 3746204.83 | 70.53051   | (13122324) | 416268.79 | 3746204.83 | 101.46916 (13091107)  |
| 416318.79 | 3746204.83 | 84.20101   | (13091107) | 416368.79 | 3746204.83 | 79.06461 (13122322)   |
| 416418.79 | 3746204.83 | 76.78646   | (16122705) | 416468.79 | 3746204.83 | 75.10469 (13041207)   |
| 416518.79 | 3746204.83 | 65.41820   | (13060506) | 416018.79 | 3746254.83 | 51.09893 (15050803)   |
| 416068.79 | 3746254.83 | 65.99898   | (14092107) | 416118.79 | 3746254.83 | 76.55564 (14092107)   |
| 416168.79 | 3746254.83 | 78.34084   | (15071821) | 416218.79 | 3746254.83 | 89.10113 (16112908)   |
| 416268.79 | 3746254.83 | 128.02247  | (13091107) | 416318.79 | 3746254.83 | 125.69134 (13091107)  |
| 416368.79 | 3746254.83 | 103.82241  | (13122322) | 416418.79 | 3746254.83 | 108.35381 (13041207)  |
| 416468.79 | 3746254.83 | 85.62317   | (12101118) | 416518.79 | 3746254.83 | 77.63252 (13060506)   |
| 416018.79 | 3746304.83 | 56.98836   | (15031218) | 416068.79 | 3746304.83 | 67.07670 (16122701)   |
| 416118.79 | 3746304.83 | 91.54355   | (14092107) | 416168.79 | 3746304.83 | 109.42704 (14092107)  |
| 416218.79 | 3746304.83 | 118.67828  | (14090207) | 416268.79 | 3746304.83 | 155.14131 (13091107)  |
| 416318.79 | 3746304.83 | 197.83101  | (13091107) | 416368.79 | 3746304.83 | 144.13105 (13122322)  |
| 416418.79 | 3746304.83 | 154.61352  | (13041207) | 416468.79 | 3746304.83 | 115.15606 (13060506)  |
| 416518.79 | 3746304.83 | 93.56132   | (15030202) | 416018.79 | 3746354.83 | 63.00021 (15031218)   |
| 416068.79 | 3746354.83 | 77.99751   | (15031218) | 416118.79 | 3746354.83 | 93.50741 (16122701)   |
| 416168.79 | 3746354.83 | 136.58771  | (14092107) | 416218.79 | 3746354.83 | 171.06329 (14092107)  |
| 416268.79 | 3746354.83 | 197.99315  | (14090207) | 416318.79 | 3746354.83 | 334.82659 (13091107)  |
| 416368.79 | 3746354.83 | 217.36996  | (13122322) | 416418.79 | 3746354.83 | 204.86140 (13041207)  |
| 416468.79 | 3746354.83 | 146.47400  | (15030202) | 416518.79 | 3746354.83 | 129.72639 (16090907)  |
| 416018.79 | 3746404.83 | 71.40775   | (12112108) | 416068.79 | 3746404.83 | 84.66096 (13012508)   |
| 416118.79 | 3746404.83 | 107.90132  | (15031218) | 416168.79 | 3746404.83 | 147.86075 (15031218)  |
| 416218.79 | 3746404.83 | 228.88349  | (14092107) | 416268.79 | 3746404.83 | 319.78946 (14090207)  |
| 416318.79 | 3746404.83 | 630.34381  | (13091107) | 416368.79 | 3746404.83 | 464.49454 (13041207)  |
| 416418.79 | 3746404.83 | 283.21442  | (13060506) | 416468.79 | 3746404.83 | 237.01209 (16090907)  |
| 416518.79 | 3746404.83 | 143.43627  | (15060919) | 416018.79 | 3746454.83 | 76.84584 (15100607)   |
| 416068.79 | 3746454.83 | 97.52648   | (15100607) | 416118.79 | 3746454.83 | 127.78751 (15100607)  |
| 416168.79 | 3746454.83 | 180.27540  | (12112108) | 416218.79 | 3746454.83 | 266.63390 (14041707)  |
| 416268.79 | 3746454.83 | 483.27146  | (14092107) | 416318.79 | 3746454.83 | 1334.05946 (13091107) |
| 416368.79 | 3746454.83 | 1133.69398 | (13041207) | 416418.79 | 3746454.83 | 542.84293 (16090907)  |
| 416468.79 | 3746454.83 | 264.22166  | (15112508) | 416518.79 | 3746454.83 | 171.11373 (15112508)  |
| 416018.79 | 3746504.83 | 78.21485   | (14092507) | 416068.79 | 3746504.83 | 99.78367 (14092507)   |
| 416118.79 | 3746504.83 | 133.89503  | (14092507) | 416168.79 | 3746504.83 | 194.03680 (14092507)  |
| 416218.79 | 3746504.83 | 320.65889  | (14092507) | 416268.79 | 3746504.83 | 697.15149 (14092507)  |
| 416318.79 | 3746504.83 | 5261.01469 | (13121916) | 416368.79 | 3746504.83 | 4123.99421 (12091207) |

416418.79 3746504.83 671.60444 (12090318) 416468.79 3746504.83 313.84553 (12090318)  
 416518.79 3746504.83 191.17578 (12090318) 416018.79 3746554.83 76.45704 (14112208)  
 416068.79 3746554.83 96.13597 (15051606) 416118.79 3746554.83 128.53328 (14032807)  
 \*\*\* AERMOD - VERSION 19191 \*\*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* 20:02:04

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL5 \*\*\*

INCLUDING SOURCE(S): VOL5 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC (YYMMDDHH)        | X-COORD (M) | Y-COORD (M) | CONC (YYMMDDHH)        |
|-------------|-------------|------------------------|-------------|-------------|------------------------|
| 416168.79   | 3746554.83  | 183.03081 (14032807)   | 416218.79   | 3746554.83  | 319.17611 (15041407)   |
| 416268.79   | 3746554.83  | 541.74420 (15041407)   | 416318.79   | 3746554.83  | 1192.17092 (14090107)  |
| 416368.79   | 3746554.83  | 1196.12386 (12121216)  | 416418.79   | 3746554.83  | 499.23034 (14090718)   |
| 416468.79   | 3746554.83  | 277.57902 (14090718)   | 416518.79   | 3746554.83  | 178.74292 (15032718)   |
| 416018.79   | 3746604.83  | 73.06319 (14032807)    | 416068.79   | 3746604.83  | 87.14320 (14032807)    |
| 416118.79   | 3746604.83  | 121.38411 (15041407)   | 416168.79   | 3746604.83  | 162.04482 (15041407)   |
| 416218.79   | 3746604.83  | 213.16881 (12113008)   | 416268.79   | 3746604.83  | 306.94753 (13062306)   |
| 416318.79   | 3746604.83  | 518.93786 (16063006)   | 416368.79   | 3746604.83  | 542.16781 (12121216)   |
| 416418.79   | 3746604.83  | 330.35918 (16081807)   | 416468.79   | 3746604.83  | 209.60715 (12060506)   |
| 416518.79   | 3746604.83  | 157.63343 (14090718)   | 416018.79   | 3746654.83  | 63.43910 (13050406)    |
| 416068.79   | 3746654.83  | 77.34728 (15041407)    | 416118.79   | 3746654.83  | 100.83082 (12113008)   |
| 416168.79   | 3746654.83  | 120.87727 (12062206)   | 416218.79   | 3746654.83  | 156.97148 (15021708)   |
| 416268.79   | 3746654.83  | 206.77449 (14090107)   | 416318.79   | 3746654.83  | 295.29877 (16063006)   |
| 416368.79   | 3746654.83  | 262.80554 (12121216)   | 416418.79   | 3746654.83  | 201.54814 (14012817)   |
| 416468.79   | 3746654.83  | 163.60720 (13021017)   | 416518.79   | 3746654.83  | 126.44133 (12060506)   |
| 416018.79   | 3746704.83  | 59.97830 (12113008)    | 416068.79   | 3746704.83  | 72.36014 (12113008)    |
| 416118.79   | 3746704.83  | 81.86391 (12062206)    | 416168.79   | 3746704.83  | 98.88075 (14061606)    |
| 416218.79   | 3746704.83  | 124.52155 (13062306)   | 416268.79   | 3746704.83  | 141.31391 (13021908)   |
| 416318.79   | 3746704.83  | 183.42127 (16063006)   | 416368.79   | 3746704.83  | 159.32311 (16091207)   |
| 416418.79   | 3746704.83  | 166.76602 (12121216)   | 416468.79   | 3746704.83  | 120.45554 (14020617)   |
| 416518.79   | 3746704.83  | 104.36046 (13021017)   | 416302.62   | 3746499.91  | 1894.81563 (14092007)  |
| 416312.84   | 3746498.80  | 3316.95735 (14092007)  | 416322.84   | 3746499.46  | 6655.48419 (14092007)  |
| 416332.84   | 3746498.80  | 16880.37928 (14092107) | 416342.39   | 3746499.24  | 31321.93971 (13091107) |
| 416190.87   | 3746435.25  | 191.45431 (15031218)   | 416189.75   | 3746447.47  | 198.95951 (12112108)   |
| 416301.03   | 3746253.85  | 141.15303 (13091107)   | 416335.27   | 3746290.44  | 138.43299 (13091107)   |
| 416331.87   | 3746279.46  | 131.81873 (13091107)   | 416361.93   | 3746288.35  | 127.59076 (13122322)   |
| 416370.04   | 3746286.52  | 126.81880 (13122322)   | 416384.15   | 3746286.52  | 123.70892 (13122322)   |
| 416388.59   | 3746285.74  | 122.09518 (16122705)   | 416400.10   | 3746294.10  | 140.68541 (13041207)   |
| 416406.37   | 3746294.62  | 144.44103 (13041207)   | 416409.51   | 3746291.23  | 141.23768 (13041207)   |
| 416422.31   | 3746291.23  | 139.72449 (13041207)   | 416428.85   | 3746288.87  | 134.15012 (13041207)   |
| 416444.80   | 3746287.83  | 118.56541 (13041207)   | 416448.19   | 3746291.75  | 115.64042 (13041207)   |
| 416459.69   | 3746291.75  | 108.60095 (13060506)   | 416466.23   | 3746288.87  | 105.98724 (13060506)   |
| 416481.65   | 3746287.04  | 101.16449 (13060506)   | 416485.31   | 3746291.23  | 101.51951 (13060506)   |
| 416499.95   | 3746290.96  | 94.02007 (16020803)    | 416505.44   | 3746288.35  | 91.00251 (16020803)    |
| 416520.34   | 3746287.31  | 86.25218 (15030202)    | 416525.57   | 3746291.23  | 86.53198 (15030202)    |
| 416540.99   | 3746294.62  | 82.37259 (15030202)    | 416545.17   | 3746289.92  | 79.85610 (15030202)    |

|           |            |          |            |           |            |          |            |
|-----------|------------|----------|------------|-----------|------------|----------|------------|
| 416557.98 | 3746293.58 | 77.99974 | (15030520) | 416562.95 | 3746288.35 | 75.36970 | (15030520) |
| 416578.63 | 3746286.26 | 71.29051 | (16112918) | 416580.72 | 3746290.18 | 71.73087 | (16112918) |
| 416595.36 | 3746289.13 | 70.16871 | (16090907) | 416600.85 | 3746291.49 | 70.64119 | (16090907) |
| 416614.97 | 3746286.52 | 66.52779 | (16090907) | 416619.15 | 3746289.66 | 66.27479 | (16090907) |

\*\*\* AERMOD - VERSION 19191 \*\*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL5 \*\*\*

INCLUDING SOURCE(S): VOL5 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3

\*\*

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC |
|-------------|-------------|------|------------|-------------|-------------|------|
|-------------|-------------|------|------------|-------------|-------------|------|

|           |            |          |            |           |            |          |            |
|-----------|------------|----------|------------|-----------|------------|----------|------------|
| 416629.34 | 3746289.40 | 63.21753 | (16090907) | 416637.18 | 3746292.53 | 61.02156 | (15101919) |
| 416649.99 | 3746292.27 | 58.52491 | (15060919) | 416655.48 | 3746286.52 | 56.62251 | (15060919) |
| 416669.34 | 3746284.43 | 54.57742 | (15060919) | 416672.73 | 3746287.83 | 54.68185 | (15060919) |
| 416686.33 | 3746289.13 | 52.82258 | (15060919) | 416691.03 | 3746287.83 | 51.95936 | (15060919) |
| 416703.58 | 3746287.83 | 49.94719 | (15060919) | 416709.07 | 3746290.18 | 49.13838 | (15060919) |
| 416725.01 | 3746283.65 | 46.29235 | (15060919) | 416718.22 | 3746289.66 | 47.54853 | (15060919) |
| 416727.89 | 3746288.09 | 45.87265 | (15060919) | 416740.17 | 3746287.57 | 43.97172 | (13110117) |
| 416745.93 | 3746284.43 | 43.07370 | (13110117) | 416761.09 | 3746284.43 | 41.38757 | (13071522) |
| 416764.75 | 3746287.04 | 41.35205 | (14120717) | 416777.29 | 3746286.52 | 40.21050 | (14120717) |
| 416782.78 | 3746288.09 | 39.84563 | (14120717) | 416572.62 | 3746354.48 | 92.55916 | (15060919) |
| 416583.60 | 3746355.01 | 88.55268 | (15060919) | 416576.54 | 3746367.55 | 94.09553 | (15060919) |
| 416582.81 | 3746368.86 | 91.09699 | (15060919) | 416586.21 | 3746371.48 | 89.47495 | (15060919) |
| 416587.26 | 3746353.70 | 86.84622 | (15060919) | 416600.07 | 3746355.53 | 82.04329 | (15060919) |
| 416605.03 | 3746368.08 | 81.83747 | (14120717) | 416612.61 | 3746375.66 | 81.37956 | (14120717) |
| 416608.95 | 3746356.58 | 78.46754 | (15060919) | 416621.76 | 3746357.62 | 74.31136 | (14120717) |
| 416622.28 | 3746371.74 | 77.46489 | (14120717) | 416625.68 | 3746370.95 | 76.26147 | (14120717) |
| 416640.32 | 3746372.26 | 72.31961 | (12090419) | 416625.94 | 3746355.27 | 72.68090 | (14120717) |
| 416635.62 | 3746355.53 | 70.51907 | (14120717) | 416641.89 | 3746373.31 | 72.06270 | (12090419) |
| 416654.17 | 3746374.35 | 68.78943 | (12090419) | 416643.20 | 3746360.50 | 69.59998 | (14120717) |
| 416652.61 | 3746360.50 | 67.16598 | (14120717) | 416656.79 | 3746375.40 | 68.15749 | (12090419) |
| 416663.59 | 3746375.40 | 66.27614 | (12090419) | 416658.10 | 3746356.31 | 65.29561 | (14120717) |
| 416668.29 | 3746357.36 | 63.16012 | (12090419) | 416672.21 | 3746353.18 | 61.69694 | (12090419) |
| 416676.92 | 3746353.18 | 60.78090 | (12090419) | 416731.81 | 3746458.47 | 57.80371 | (13033018) |
| 416731.03 | 3746466.83 | 58.52111 | (13033018) | 416742.01 | 3746473.63 | 56.36168 | (13033018) |
| 416731.03 | 3746411.68 | 55.20698 | (13090718) | 416731.03 | 3746425.01 | 56.55228 | (13090718) |
| 416681.62 | 3746375.61 | 62.67614 | (15112508) | 416698.09 | 3746375.87 | 59.64441 | (15112508) |
| 416703.58 | 3746376.65 | 58.73513 | (15112508) | 416703.58 | 3746357.83 | 55.89372 | (12090419) |
| 416714.56 | 3746373.51 | 56.34825 | (15112508) | 416723.97 | 3746372.99 | 54.66345 | (15112508) |
| 416749.85 | 3746377.17 | 50.52466 | (15112508) | 416759.00 | 3746375.34 | 48.96696 | (15112508) |
| 416774.16 | 3746375.34 | 46.57513 | (15112508) | 416758.21 | 3746413.77 | 50.94092 | (13090718) |
| 416756.65 | 3746428.41 | 51.89504 | (13090718) | 416751.16 | 3746474.68 | 54.54260 | (13033018) |
| 416781.48 | 3746473.63 | 49.21748 | (12070919) | 416756.38 | 3746455.59 | 52.93287 | (13033018) |
| 416773.90 | 3746452.98 | 49.83009 | (13033018) | 416140.28 | 3746195.97 | 60.04067 | (15071821) |
| 416158.30 | 3746194.91 | 62.99577 | (16112908) | 416172.61 | 3746195.44 | 64.84098 | (16112908) |
| 416190.09 | 3746196.50 | 65.53639 | (16112908) | 416220.03 | 3746195.97 | 68.59521 | (13122324) |

|           |            |          |            |           |            |          |            |
|-----------|------------|----------|------------|-----------|------------|----------|------------|
| 416239.64 | 3746195.17 | 76.52854 | (13091107) | 416250.77 | 3746195.17 | 86.22212 | (13091107) |
| 416267.19 | 3746194.91 | 96.07999 | (13091107) | 416086.50 | 3746243.39 | 71.01987 | (14092107) |
| 416067.16 | 3746248.16 | 65.71636 | (14092107) | 416057.36 | 3746252.67 | 60.31772 | (14092107) |
| 416049.67 | 3746254.52 | 55.49292 | (14092107) | 416043.58 | 3746258.23 | 54.98044 | (15050803) |
| 416038.28 | 3746258.76 | 54.37502 | (15050803) | 416032.45 | 3746255.32 | 53.09242 | (15050803) |

\*\*\* AERMOD - VERSION 19191 \*\*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL5 \*\*\*

INCLUDING SOURCE(S): VOL5 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|-------------|-------------|------|------------|-------------|-------------|------|------------|
|-------------|-------------|------|------------|-------------|-------------|------|------------|

|           |            |          |            |           |            |          |            |
|-----------|------------|----------|------------|-----------|------------|----------|------------|
| 416026.09 | 3746256.91 | 52.40494 | (15050803) | 416013.38 | 3746259.03 | 50.67879 | (16122701) |
| 416008.87 | 3746260.88 | 50.41957 | (16122701) | 416004.90 | 3746261.94 | 50.05906 | (16122701) |
| 415999.33 | 3746267.24 | 49.83975 | (16122701) | 415984.76 | 3746268.03 | 47.66218 | (16122701) |
| 415970.45 | 3746270.42 | 45.73752 | (15031218) | 415958.53 | 3746270.68 | 44.94825 | (15031218) |
| 415946.61 | 3746271.21 | 44.07255 | (15031218) | 415936.81 | 3746273.07 | 43.41913 | (15031218) |
| 415924.09 | 3746272.80 | 42.17406 | (15031218) | 415913.49 | 3746272.01 | 41.06169 | (15031218) |
| 415899.45 | 3746273.33 | 39.68629 | (15031218) | 415883.29 | 3746274.92 | 37.99556 | (15031218) |
| 415892.30 | 3746272.01 | 38.88251 | (15031218) | 415864.21 | 3746276.25 | 35.90233 | (15031218) |
| 415856.79 | 3746275.98 | 35.08745 | (15031218) | 415843.81 | 3746275.19 | 33.68995 | (15031218) |
| 415834.27 | 3746274.66 | 32.68450 | (15031218) | 415821.55 | 3746275.72 | 31.65428 | (15100506) |
| 415809.63 | 3746274.39 | 30.73801 | (15100506) | 415797.44 | 3746276.78 | 29.86269 | (15100506) |
| 415787.11 | 3746276.25 | 29.17171 | (15121523) |           |            |          |            |

\*\*\* AERMOD - VERSION 19191 \*\*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23

\*\*\* AERMET - VERSION 16216 \*\*\*

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL6 \*\*\*

INCLUDING SOURCE(S): VOL6 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|-------------|-------------|------|------------|-------------|-------------|------|------------|
|-------------|-------------|------|------------|-------------|-------------|------|------------|

|           |            |           |            |           |            |           |            |
|-----------|------------|-----------|------------|-----------|------------|-----------|------------|
| 416018.79 | 3746204.83 | 90.28254  | (14092107) | 416068.79 | 3746204.83 | 99.63224  | (14092107) |
| 416118.79 | 3746204.83 | 112.44673 | (15071821) | 416168.79 | 3746204.83 | 126.74240 | (13010208) |
| 416218.79 | 3746204.83 | 178.50017 | (13091107) | 416268.79 | 3746204.83 | 144.58477 | (12011301) |
| 416318.79 | 3746204.83 | 147.75728 | (13122322) | 416368.79 | 3746204.83 | 147.77806 | (13041207) |
| 416418.79 | 3746204.83 | 120.93482 | (12101118) | 416468.79 | 3746204.83 | 106.29545 | (16020803) |

|           |            |                       |           |            |                       |
|-----------|------------|-----------------------|-----------|------------|-----------------------|
| 416518.79 | 3746204.83 | 91.18300 (16112917)   | 416018.79 | 3746254.83 | 97.07431 (16122701)   |
| 416068.79 | 3746254.83 | 122.07570 (14092107)  | 416118.79 | 3746254.83 | 138.85748 (16122622)  |
| 416168.79 | 3746254.83 | 168.33511 (14090207)  | 416218.79 | 3746254.83 | 199.75027 (13091107)  |
| 416268.79 | 3746254.83 | 225.63804 (13091107)  | 416318.79 | 3746254.83 | 200.71118 (13122322)  |
| 416368.79 | 3746254.83 | 193.26032 (13041207)  | 416418.79 | 3746254.83 | 155.49429 (13060506)  |
| 416468.79 | 3746254.83 | 127.35389 (15030202)  | 416518.79 | 3746254.83 | 110.67556 (16090907)  |
| 416018.79 | 3746304.83 | 113.28266 (15031218)  | 416068.79 | 3746304.83 | 134.80535 (16122701)  |
| 416118.79 | 3746304.83 | 174.66184 (14092107)  | 416168.79 | 3746304.83 | 214.72223 (16122622)  |
| 416218.79 | 3746304.83 | 265.89310 (13010208)  | 416268.79 | 3746304.83 | 403.04307 (13091107)  |
| 416318.79 | 3746304.83 | 297.07355 (16122705)  | 416368.79 | 3746304.83 | 251.87222 (13060506)  |
| 416418.79 | 3746304.83 | 197.77985 (15030202)  | 416468.79 | 3746304.83 | 171.67564 (16090907)  |
| 416518.79 | 3746304.83 | 128.74111 (15060919)  | 416018.79 | 3746354.83 | 121.68450 (13012508)  |
| 416068.79 | 3746354.83 | 153.49811 (15100506)  | 416118.79 | 3746354.83 | 212.96447 (15031218)  |
| 416168.79 | 3746354.83 | 289.40259 (15050803)  | 416218.79 | 3746354.83 | 414.42340 (14090207)  |
| 416268.79 | 3746354.83 | 751.01053 (13091107)  | 416318.79 | 3746354.83 | 533.92620 (13041207)  |
| 416368.79 | 3746354.83 | 369.68619 (15030202)  | 416418.79 | 3746354.83 | 278.00151 (16090907)  |
| 416468.79 | 3746354.83 | 188.72090 (13071522)  | 416518.79 | 3746354.83 | 145.92191 (12090419)  |
| 416018.79 | 3746404.83 | 141.09250 (15100607)  | 416068.79 | 3746404.83 | 184.55067 (15100607)  |
| 416118.79 | 3746404.83 | 259.54522 (12112108)  | 416168.79 | 3746404.83 | 374.47098 (15121523)  |
| 416218.79 | 3746404.83 | 682.79002 (16122701)  | 416268.79 | 3746404.83 | 1788.05969 (13091107) |
| 416318.79 | 3746404.83 | 1135.41896 (13060506) | 416368.79 | 3746404.83 | 560.54051 (13110117)  |
| 416418.79 | 3746404.83 | 337.25899 (15112508)  | 416468.79 | 3746404.83 | 222.75487 (13032418)  |
| 416518.79 | 3746404.83 | 165.22180 (13090718)  | 416018.79 | 3746454.83 | 141.67611 (15112408)  |
| 416068.79 | 3746454.83 | 190.05566 (14092807)  | 416118.79 | 3746454.83 | 275.68289 (14092807)  |
| 416168.79 | 3746454.83 | 453.11516 (14092807)  | 416218.79 | 3746454.83 | 959.79598 (14092807)  |
| 416268.79 | 3746454.83 | 0.00000 (00000000)    | 416318.79 | 3746454.83 | 2455.03291 (15032718) |
| 416368.79 | 3746454.83 | 740.41613 (12090318)  | 416418.79 | 3746454.83 | 387.66194 (12090318)  |
| 416468.79 | 3746454.83 | 247.90381 (12090318)  | 416518.79 | 3746454.83 | 176.15028 (12090318)  |
| 416018.79 | 3746504.83 | 137.53988 (15051606)  | 416068.79 | 3746504.83 | 184.47797 (14032807)  |
| 416118.79 | 3746504.83 | 250.53152 (14032807)  | 416168.79 | 3746504.83 | 409.79493 (15041407)  |
| 416218.79 | 3746504.83 | 650.01824 (12113008)  | 416268.79 | 3746504.83 | 1147.06375 (13021908) |
| 416318.79 | 3746504.83 | 1009.49133 (14020617) | 416368.79 | 3746504.83 | 543.15869 (13062919)  |
| 416418.79 | 3746504.83 | 334.57675 (12012617)  | 416468.79 | 3746504.83 | 222.50113 (15032718)  |
| 416518.79 | 3746504.83 | 170.03139 (15032718)  | 416018.79 | 3746554.83 | 119.31765 (12021104)  |
| 416068.79 | 3746554.83 | 169.51638 (15041407)  | 416118.79 | 3746554.83 | 210.44906 (12113008)  |

\*\*\* AERMOD - VERSION 19191 \*\*\* C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond \*\*\* 05/22/23

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL6 \*\*\*

INCLUDING SOURCE(S): VOL6 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC (YYMMDDHH)      | X-COORD (M) | Y-COORD (M) | CONC                 |
|-------------|-------------|----------------------|-------------|-------------|----------------------|
| 416168.79   | 3746554.83  | 279.77022 (12062206) | 416218.79   | 3746554.83  | 411.66008 (13062306) |
| 416268.79   | 3746554.83  | 591.68773 (16063006) | 416318.79   | 3746554.83  | 555.35322 (12121216) |
| 416368.79   | 3746554.83  | 377.59618 (13021017) | 416418.79   | 3746554.83  | 254.31864 (12012517) |
| 416468.79   | 3746554.83  | 200.73736 (14090718) | 416518.79   | 3746554.83  | 153.90157 (14090718) |

|           |            |            |            |           |            |            |            |
|-----------|------------|------------|------------|-----------|------------|------------|------------|
| 416018.79 | 3746604.83 | 110.99117  | (16061506) | 416068.79 | 3746604.83 | 142.51974  | (12113008) |
| 416118.79 | 3746604.83 | 165.65074  | (15080604) | 416168.79 | 3746604.83 | 213.99875  | (15021708) |
| 416218.79 | 3746604.83 | 269.43446  | (14090107) | 416268.79 | 3746604.83 | 352.48463  | (16063006) |
| 416318.79 | 3746604.83 | 308.79308  | (12121216) | 416368.79 | 3746604.83 | 254.26728  | (14012817) |
| 416418.79 | 3746604.83 | 211.96085  | (13021017) | 416468.79 | 3746604.83 | 159.47476  | (12012517) |
| 416518.79 | 3746604.83 | 128.57436  | (13062919) | 416018.79 | 3746654.83 | 100.17632  | (12113008) |
| 416068.79 | 3746654.83 | 113.09111  | (15080604) | 416118.79 | 3746654.83 | 138.66533  | (15021708) |
| 416168.79 | 3746654.83 | 170.79548  | (13062306) | 416218.79 | 3746654.83 | 189.12220  | (13052406) |
| 416268.79 | 3746654.83 | 218.97556  | (16063006) | 416318.79 | 3746654.83 | 197.54963  | (14052806) |
| 416368.79 | 3746654.83 | 186.99574  | (14102417) | 416418.79 | 3746654.83 | 155.90045  | (13070119) |
| 416468.79 | 3746654.83 | 138.72084  | (13021017) | 416518.79 | 3746654.83 | 111.26591  | (12012517) |
| 416018.79 | 3746704.83 | 83.57199   | (15080604) | 416068.79 | 3746704.83 | 97.39922   | (15021708) |
| 416118.79 | 3746704.83 | 117.30832  | (13062306) | 416168.79 | 3746704.83 | 130.80584  | (12022608) |
| 416218.79 | 3746704.83 | 140.65202  | (16061306) | 416268.79 | 3746704.83 | 144.96965  | (14052906) |
| 416318.79 | 3746704.83 | 146.17634  | (13062406) | 416368.79 | 3746704.83 | 162.40720  | (12121216) |
| 416418.79 | 3746704.83 | 128.49165  | (14012817) | 416468.79 | 3746704.83 | 106.75857  | (13070119) |
| 416518.79 | 3746704.83 | 99.26518   | (13021017) | 416302.62 | 3746499.91 | 1587.75698 | (12121216) |
| 416312.84 | 3746498.80 | 1255.04699 | (12121216) | 416322.84 | 3746499.46 | 1068.08341 | (13021017) |
| 416332.84 | 3746498.80 | 1041.25074 | (12060506) | 416342.39 | 3746499.24 | 874.56394  | (12060506) |
| 416190.87 | 3746435.25 | 585.35975  | (15100607) | 416189.75 | 3746447.47 | 593.21309  | (14092507) |
| 416301.03 | 3746253.85 | 196.57377  | (14030118) | 416335.27 | 3746290.44 | 273.08016  | (13041207) |
| 416331.87 | 3746279.46 | 236.12514  | (13041207) | 416361.93 | 3746288.35 | 232.66061  | (13041207) |
| 416370.04 | 3746286.52 | 213.58789  | (12101118) | 416384.15 | 3746286.52 | 212.43941  | (13060506) |
| 416388.59 | 3746285.74 | 208.76321  | (13060506) | 416400.10 | 3746294.10 | 203.73560  | (16020803) |
| 416406.37 | 3746294.62 | 195.24020  | (16020803) | 416409.51 | 3746291.23 | 188.56237  | (16020803) |
| 416422.31 | 3746291.23 | 182.39092  | (15030202) | 416428.85 | 3746288.87 | 175.19932  | (15030202) |
| 416444.80 | 3746287.83 | 161.16529  | (15030520) | 416448.19 | 3746291.75 | 163.02357  | (15030520) |
| 416459.69 | 3746291.75 | 154.97261  | (16112918) | 416466.23 | 3746288.87 | 148.98457  | (16112918) |
| 416481.65 | 3746287.04 | 147.02499  | (16090907) | 416485.31 | 3746291.23 | 150.47869  | (16090907) |
| 416499.95 | 3746290.96 | 138.81080  | (16090907) | 416505.44 | 3746288.35 | 133.30360  | (16090907) |
| 416520.34 | 3746287.31 | 119.66425  | (14043019) | 416525.57 | 3746291.23 | 119.31180  | (15060919) |
| 416540.99 | 3746294.62 | 114.13265  | (15060919) | 416545.17 | 3746289.92 | 111.14171  | (15060919) |
| 416557.98 | 3746293.58 | 105.34175  | (13110117) | 416562.95 | 3746288.35 | 102.13541  | (13110117) |
| 416578.63 | 3746286.26 | 95.72628   | (13110117) | 416580.72 | 3746290.18 | 94.97786   | (13110117) |
| 416595.36 | 3746289.13 | 90.34912   | (13071522) | 416600.85 | 3746291.49 | 89.20606   | (14120717) |
| 416614.97 | 3746286.52 | 84.55589   | (14120717) | 416619.15 | 3746289.66 | 84.44194   | (14120717) |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL6 \*\*\*

INCLUDING SOURCE(S): VOL6 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC     | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC     | (YYMMDDHH) |
|-------------|-------------|----------|------------|-------------|-------------|----------|------------|
| 416629.34   | 3746289.40  | 81.75213 | (14120717) | 416637.18   | 3746292.53  | 80.04642 | (12090419) |
| 416649.99   | 3746292.27  | 77.17790 | (12090419) | 416655.48   | 3746286.52  | 74.99368 | (12090419) |
| 416669.34   | 3746284.43  | 71.85005 | (12090419) | 416672.73   | 3746287.83  | 71.45083 | (12090419) |

|           |            |           |            |           |            |           |            |
|-----------|------------|-----------|------------|-----------|------------|-----------|------------|
| 416686.33 | 3746289.13 | 68.22711  | (12090419) | 416691.03 | 3746287.83 | 67.10400  | (12090419) |
| 416703.58 | 3746287.83 | 64.75835  | (12091219) | 416709.07 | 3746290.18 | 63.88664  | (12091219) |
| 416725.01 | 3746283.65 | 60.64091  | (12091219) | 416718.22 | 3746289.66 | 62.15098  | (13080421) |
| 416727.89 | 3746288.09 | 60.61112  | (15112508) | 416740.17 | 3746287.57 | 59.18881  | (15112508) |
| 416745.93 | 3746284.43 | 57.92294  | (15112508) | 416761.09 | 3746284.43 | 56.28204  | (15112508) |
| 416764.75 | 3746287.04 | 56.19465  | (15112508) | 416777.29 | 3746286.52 | 54.54817  | (15112508) |
| 416782.78 | 3746288.09 | 53.92001  | (15112508) | 416572.62 | 3746354.48 | 115.92703 | (15112508) |
| 416583.60 | 3746355.01 | 110.68338 | (15112508) | 416576.54 | 3746367.55 | 114.58892 | (13101817) |
| 416582.81 | 3746368.86 | 111.95350 | (13101817) | 416586.21 | 3746371.48 | 110.62097 | (13101817) |
| 416587.26 | 3746353.70 | 108.79422 | (15112508) | 416600.07 | 3746355.53 | 102.61793 | (15112508) |
| 416605.03 | 3746368.08 | 101.65283 | (13101817) | 416612.61 | 3746375.66 | 100.36815 | (13090718) |
| 416608.95 | 3746356.58 | 98.34524  | (13101817) | 416621.76 | 3746357.62 | 94.14013  | (13101817) |
| 416622.28 | 3746371.74 | 95.68285  | (13032418) | 416625.68 | 3746370.95 | 94.34621  | (13032418) |
| 416640.32 | 3746372.26 | 90.37831  | (13090718) | 416625.94 | 3746355.27 | 92.32558  | (13101817) |
| 416635.62 | 3746355.53 | 89.17973  | (13101817) | 416641.89 | 3746373.31 | 90.17443  | (13090718) |
| 416654.17 | 3746374.35 | 86.67342  | (13090718) | 416643.20 | 3746360.50 | 86.94962  | (13032418) |
| 416652.61 | 3746360.50 | 84.27739  | (13032418) | 416656.79 | 3746375.40 | 86.02359  | (13090718) |
| 416663.59 | 3746375.40 | 83.99660  | (13090718) | 416658.10 | 3746356.31 | 82.01153  | (13032418) |
| 416668.29 | 3746357.36 | 79.57716  | (13032418) | 416672.21 | 3746353.18 | 77.92061  | (13032418) |
| 416676.92 | 3746353.18 | 76.81508  | (13032418) | 416731.81 | 3746458.47 | 70.47239  | (12090318) |
| 416731.03 | 3746466.83 | 71.83318  | (12090318) | 416742.01 | 3746473.63 | 69.64261  | (12090318) |
| 416731.03 | 3746411.68 | 68.75383  | (13033018) | 416731.03 | 3746425.01 | 68.93512  | (12070919) |
| 416681.62 | 3746375.61 | 78.84926  | (13090718) | 416698.09 | 3746375.87 | 74.40819  | (13090718) |
| 416703.58 | 3746376.65 | 72.93433  | (13090718) | 416703.58 | 3746357.83 | 71.65440  | (13090718) |
| 416714.56 | 3746373.51 | 70.40788  | (13090718) | 416723.97 | 3746372.99 | 68.22860  | (13090718) |
| 416749.85 | 3746377.17 | 62.62943  | (12090518) | 416759.00 | 3746375.34 | 60.92957  | (12090518) |
| 416774.16 | 3746375.34 | 58.31789  | (12090518) | 416758.21 | 3746413.77 | 63.20988  | (13033018) |
| 416756.65 | 3746428.41 | 64.18446  | (12070919) | 416751.16 | 3746474.68 | 67.72966  | (12090318) |
| 416781.48 | 3746473.63 | 62.01337  | (12090318) | 416756.38 | 3746455.59 | 64.65510  | (12090318) |
| 416773.90 | 3746452.98 | 60.75715  | (12090318) | 416140.28 | 3746195.97 | 118.13463 | (16112908) |
| 416158.30 | 3746194.91 | 117.51155 | (16122001) | 416172.61 | 3746195.44 | 122.18871 | (13010208) |
| 416190.09 | 3746196.50 | 128.11423 | (13122324) | 416220.03 | 3746195.97 | 175.34067 | (13091107) |
| 416239.64 | 3746195.17 | 185.61823 | (13091107) | 416250.77 | 3746195.17 | 169.50725 | (13091107) |
| 416267.19 | 3746194.91 | 136.68287 | (12011301) | 416086.50 | 3746243.39 | 138.37845 | (14092107) |
| 416067.16 | 3746248.16 | 124.13953 | (14092107) | 416057.36 | 3746252.67 | 107.04675 | (13112304) |
| 416049.67 | 3746254.52 | 106.98600 | (15050803) | 416043.58 | 3746258.23 | 106.84682 | (15050803) |
| 416038.28 | 3746258.76 | 104.96952 | (15050803) | 416032.45 | 3746255.32 | 101.83383 | (15050803) |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL6 \*\*\*

INCLUDING SOURCE(S): VOL6 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| X-COORD (M) | Y-COORD (M) | CONC     | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC     | (YYMMDDHH) |
|-------------|-------------|----------|------------|-------------|-------------|----------|------------|
| 416026.09   | 3746256.91  | 99.53262 | (16122701) | 416013.38   | 3746259.03  | 96.78233 | (16122701) |
| 416008.87   | 3746260.88  | 95.46003 | (16122701) | 416004.90   | 3746261.94  | 93.92689 | (16122701) |

|           |            |          |            |           |            |          |            |
|-----------|------------|----------|------------|-----------|------------|----------|------------|
| 415999.33 | 3746267.24 | 92.97903 | (16101920) | 415984.76 | 3746268.03 | 88.32083 | (15031218) |
| 415970.45 | 3746270.42 | 87.43480 | (15031218) | 415958.53 | 3746270.68 | 84.96709 | (15031218) |
| 415946.61 | 3746271.21 | 81.95591 | (15031218) | 415936.81 | 3746273.07 | 79.11927 | (15031218) |
| 415924.09 | 3746272.80 | 74.98201 | (15031218) | 415913.49 | 3746272.01 | 71.50748 | (15031218) |
| 415899.45 | 3746273.33 | 67.87489 | (15100506) | 415883.29 | 3746274.92 | 64.83000 | (15100506) |
| 415892.30 | 3746272.01 | 66.39698 | (15100506) | 415864.21 | 3746276.25 | 61.12289 | (16010324) |
| 415856.79 | 3746275.98 | 59.68838 | (16042906) | 415843.81 | 3746275.19 | 58.00939 | (15121523) |
| 415834.27 | 3746274.66 | 56.80847 | (15121523) | 415821.55 | 3746275.72 | 55.33233 | (15121523) |
| 415809.63 | 3746274.39 | 53.64624 | (15121523) | 415797.44 | 3746276.78 | 52.04086 | (15121523) |
| 415787.11 | 3746276.25 | 50.97221 | (13012508) |           |            |          |            |

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF MAXIMUM PERIOD ( 43848 HRS) RESULTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

#### NETWORK

| GROUP ID | AVERAGE CONC | RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE |
|----------|--------------|------------------------------------------------|
| GRID-ID  |              |                                                |

-----

SLINE1 1ST HIGHEST VALUE IS 378.56671 AT ( 416302.62, 3746499.91, 28.96, 28.96, 0.00) DC  
2ND HIGHEST VALUE IS 313.09988 AT ( 416189.75, 3746447.47, 28.96, 28.96, 0.00) DC  
3RD HIGHEST VALUE IS 307.24755 AT ( 416218.79, 3746504.83, 28.96, 28.96, 0.00) DC  
4TH HIGHEST VALUE IS 270.62023 AT ( 416218.79, 3746454.83, 28.96, 28.96, 0.00) DC  
5TH HIGHEST VALUE IS 266.67326 AT ( 416268.79, 3746504.83, 28.96, 28.96, 0.00) DC  
6TH HIGHEST VALUE IS 243.97591 AT ( 416342.39, 3746499.24, 28.96, 28.96, 0.00) DC  
7TH HIGHEST VALUE IS 204.05131 AT ( 416312.84, 3746498.80, 28.96, 28.96, 0.00) DC  
8TH HIGHEST VALUE IS 196.52486 AT ( 416268.79, 3746454.83, 28.96, 28.96, 0.00) DC  
9TH HIGHEST VALUE IS 189.10654 AT ( 416190.87, 3746435.25, 28.96, 28.96, 0.00) DC  
10TH HIGHEST VALUE IS 184.26288 AT ( 416332.84, 3746498.80, 28.96, 28.96, 0.00) DC

SLINE2 1ST HIGHEST VALUE IS 124.65436 AT ( 416587.26, 3746353.70, 28.96, 28.96, 0.00) DC  
2ND HIGHEST VALUE IS 121.25210 AT ( 416572.62, 3746354.48, 28.96, 28.96, 0.00) DC  
3RD HIGHEST VALUE IS 120.49109 AT ( 416468.79, 3746354.83, 28.96, 28.96, 0.00) DC  
4TH HIGHEST VALUE IS 119.93733 AT ( 416518.79, 3746354.83, 28.96, 28.96, 0.00) DC  
5TH HIGHEST VALUE IS 119.04103 AT ( 416583.60, 3746355.01, 28.96, 28.96, 0.00) DC  
6TH HIGHEST VALUE IS 118.05647 AT ( 416168.79, 3746404.83, 28.96, 28.96, 0.00) DC  
7TH HIGHEST VALUE IS 117.26934 AT ( 416625.94, 3746355.27, 28.96, 28.96, 0.00) DC  
8TH HIGHEST VALUE IS 116.74608 AT ( 416600.07, 3746355.53, 28.96, 28.96, 0.00) DC  
9TH HIGHEST VALUE IS 116.07127 AT ( 416635.62, 3746355.53, 28.96, 28.96, 0.00) DC  
10TH HIGHEST VALUE IS 112.42912 AT ( 416608.95, 3746356.58, 28.96, 28.96, 0.00) DC

SLINE3 1ST HIGHEST VALUE IS 205.85986 AT ( 416068.79, 3746404.83, 28.96, 28.96, 0.00) DC  
2ND HIGHEST VALUE IS 158.58083 AT ( 416018.79, 3746354.83, 28.96, 28.96, 0.00) DC  
3RD HIGHEST VALUE IS 145.57015 AT ( 416018.79, 3746404.83, 28.96, 28.96, 0.00) DC  
4TH HIGHEST VALUE IS 142.50894 AT ( 416068.79, 3746354.83, 28.96, 28.96, 0.00) DC  
5TH HIGHEST VALUE IS 136.07011 AT ( 416118.79, 3746404.83, 28.96, 28.96, 0.00) DC  
6TH HIGHEST VALUE IS 108.48165 AT ( 416118.79, 3746454.83, 28.96, 28.96, 0.00) DC  
7TH HIGHEST VALUE IS 102.20058 AT ( 416068.79, 3746454.83, 28.96, 28.96, 0.00) DC  
8TH HIGHEST VALUE IS 94.04809 AT ( 416118.79, 3746354.83, 28.96, 28.96, 0.00) DC

9TH HIGHEST VALUE IS 85.99608 AT ( 416118.79, 3746504.83, 28.96, 28.96, 0.00) DC  
10TH HIGHEST VALUE IS 77.62231 AT ( 416168.79, 3746454.83, 28.96, 28.96, 0.00) DC

SLINE4 1ST HIGHEST VALUE IS 156.93691 AT ( 416026.09, 3746256.91, 28.96, 28.96, 0.00) DC  
2ND HIGHEST VALUE IS 156.02141 AT ( 416032.45, 3746255.32, 28.96, 28.96, 0.00) DC  
3RD HIGHEST VALUE IS 154.75203 AT ( 416013.38, 3746259.03, 28.96, 28.96, 0.00) DC  
4TH HIGHEST VALUE IS 139.60067 AT ( 415970.45, 3746270.42, 28.96, 28.96, 0.00) DC  
5TH HIGHEST VALUE IS 138.81064 AT ( 416018.79, 3746254.83, 28.96, 28.96, 0.00) DC  
6TH HIGHEST VALUE IS 138.74885 AT ( 416043.58, 3746258.23, 28.96, 28.96, 0.00) DC  
7TH HIGHEST VALUE IS 138.36088 AT ( 416038.28, 3746258.76, 28.96, 28.96, 0.00) DC  
8TH HIGHEST VALUE IS 136.63450 AT ( 415958.53, 3746270.68, 28.96, 28.96, 0.00) DC  
9TH HIGHEST VALUE IS 135.21235 AT ( 415936.81, 3746273.07, 28.96, 28.96, 0.00) DC  
10TH HIGHEST VALUE IS 132.99704 AT ( 416057.36, 3746252.67, 28.96, 28.96, 0.00) DC

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF MAXIMUM PERIOD ( 43848 HRS) RESULTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

#### NETWORK

| GROUP ID | AVERAGE CONC | RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE |
|----------|--------------|------------------------------------------------|
| GRID-ID  |              |                                                |

SLINE5 1ST HIGHEST VALUE IS 101.45458 AT ( 416499.95, 3746290.96, 28.96, 28.96, 0.00) DC  
2ND HIGHEST VALUE IS 99.73932 AT ( 416428.85, 3746288.87, 28.96, 28.96, 0.00) DC  
3RD HIGHEST VALUE IS 96.85640 AT ( 416218.79, 3746254.83, 28.96, 28.96, 0.00) DC  
4TH HIGHEST VALUE IS 95.17794 AT ( 416466.23, 3746288.87, 28.96, 28.96, 0.00) DC  
5TH HIGHEST VALUE IS 93.31172 AT ( 416400.10, 3746294.10, 28.96, 28.96, 0.00) DC  
6TH HIGHEST VALUE IS 93.28329 AT ( 416444.80, 3746287.83, 28.96, 28.96, 0.00) DC  
7TH HIGHEST VALUE IS 92.74951 AT ( 416619.15, 3746289.66, 28.96, 28.96, 0.00) DC  
8TH HIGHEST VALUE IS 92.19909 AT ( 416505.44, 3746288.35, 28.96, 28.96, 0.00) DC  
9TH HIGHEST VALUE IS 91.83365 AT ( 416595.36, 3746289.13, 28.96, 28.96, 0.00) DC  
10TH HIGHEST VALUE IS 91.23458 AT ( 416629.34, 3746289.40, 28.96, 28.96, 0.00) DC

VOL1 1ST HIGHEST VALUE IS 7941.77404 AT ( 416318.79, 3746504.83, 28.96, 28.96, 0.00) DC  
2ND HIGHEST VALUE IS 7832.70754 AT ( 416322.84, 3746499.46, 28.96, 28.96, 0.00) DC  
3RD HIGHEST VALUE IS 3601.49211 AT ( 416312.84, 3746498.80, 28.96, 28.96, 0.00) DC  
4TH HIGHEST VALUE IS 3591.78932 AT ( 416332.84, 3746498.80, 28.96, 28.96, 0.00) DC  
5TH HIGHEST VALUE IS 1481.39033 AT ( 416342.39, 3746499.24, 28.96, 28.96, 0.00) DC  
6TH HIGHEST VALUE IS 1426.96457 AT ( 416302.62, 3746499.91, 28.96, 28.96, 0.00) DC  
7TH HIGHEST VALUE IS 353.28183 AT ( 416368.79, 3746504.83, 28.96, 28.96, 0.00) DC  
8TH HIGHEST VALUE IS 331.29496 AT ( 416318.79, 3746554.83, 28.96, 28.96, 0.00) DC  
9TH HIGHEST VALUE IS 259.87224 AT ( 416268.79, 3746504.83, 28.96, 28.96, 0.00) DC  
10TH HIGHEST VALUE IS 251.51381 AT ( 416318.79, 3746454.83, 28.96, 28.96, 0.00) DC

VOL2 1ST HIGHEST VALUE IS 7624.02472 AT ( 416318.79, 3746504.83, 28.96, 28.96, 0.00) DC  
2ND HIGHEST VALUE IS 7401.58893 AT ( 416312.84, 3746498.80, 28.96, 28.96, 0.00) DC  
3RD HIGHEST VALUE IS 3797.65529 AT ( 416302.62, 3746499.91, 28.96, 28.96, 0.00) DC  
4TH HIGHEST VALUE IS 3761.26269 AT ( 416322.84, 3746499.46, 28.96, 28.96, 0.00) DC  
5TH HIGHEST VALUE IS 1412.64338 AT ( 416332.84, 3746498.80, 28.96, 28.96, 0.00) DC

6TH HIGHEST VALUE IS 747.78883 AT ( 416342.39, 3746499.24, 28.96, 28.96, 0.00) DC  
7TH HIGHEST VALUE IS 376.05749 AT ( 416268.79, 3746504.83, 28.96, 28.96, 0.00) DC  
8TH HIGHEST VALUE IS 337.36394 AT ( 416318.79, 3746554.83, 28.96, 28.96, 0.00) DC  
9TH HIGHEST VALUE IS 250.20457 AT ( 416318.79, 3746454.83, 28.96, 28.96, 0.00) DC  
10TH HIGHEST VALUE IS 248.83021 AT ( 416368.79, 3746504.83, 28.96, 28.96, 0.00) DC

VOL3 1ST HIGHEST VALUE IS 7975.44119 AT ( 416302.62, 3746499.91, 28.96, 28.96, 0.00) DC  
2ND HIGHEST VALUE IS 3591.78932 AT ( 416312.84, 3746498.80, 28.96, 28.96, 0.00) DC  
3RD HIGHEST VALUE IS 2246.43119 AT ( 416318.79, 3746504.83, 28.96, 28.96, 0.00) DC  
4TH HIGHEST VALUE IS 1436.62240 AT ( 416322.84, 3746499.46, 28.96, 28.96, 0.00) DC  
5TH HIGHEST VALUE IS 724.65147 AT ( 416332.84, 3746498.80, 28.96, 28.96, 0.00) DC  
6TH HIGHEST VALUE IS 599.10618 AT ( 416268.79, 3746504.83, 28.96, 28.96, 0.00) DC  
7TH HIGHEST VALUE IS 451.62565 AT ( 416342.39, 3746499.24, 28.96, 28.96, 0.00) DC  
8TH HIGHEST VALUE IS 313.91540 AT ( 416318.79, 3746554.83, 28.96, 28.96, 0.00) DC  
9TH HIGHEST VALUE IS 233.02169 AT ( 416318.79, 3746454.83, 28.96, 28.96, 0.00) DC  
10TH HIGHEST VALUE IS 207.32805 AT ( 416268.79, 3746554.83, 28.96, 28.96, 0.00) DC

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF MAXIMUM PERIOD ( 43848 HRS) RESULTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

#### NETWORK

| GROUP ID | AVERAGE CONC | RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE |
|----------|--------------|------------------------------------------------|
| GRID-ID  |              |                                                |

VOL4 1ST HIGHEST VALUE IS 7401.58893 AT ( 416332.84, 3746498.80, 28.96, 28.96, 0.00) DC  
2ND HIGHEST VALUE IS 3892.13622 AT ( 416342.39, 3746499.24, 28.96, 28.96, 0.00) DC  
3RD HIGHEST VALUE IS 3777.72660 AT ( 416322.84, 3746499.46, 28.96, 28.96, 0.00) DC  
4TH HIGHEST VALUE IS 2773.94042 AT ( 416318.79, 3746504.83, 28.96, 28.96, 0.00) DC  
5TH HIGHEST VALUE IS 1411.76223 AT ( 416312.84, 3746498.80, 28.96, 28.96, 0.00) DC  
6TH HIGHEST VALUE IS 722.71315 AT ( 416302.62, 3746499.91, 28.96, 28.96, 0.00) DC  
7TH HIGHEST VALUE IS 546.79814 AT ( 416368.79, 3746504.83, 28.96, 28.96, 0.00) DC  
8TH HIGHEST VALUE IS 297.99753 AT ( 416318.79, 3746554.83, 28.96, 28.96, 0.00) DC  
9TH HIGHEST VALUE IS 236.15514 AT ( 416318.79, 3746454.83, 28.96, 28.96, 0.00) DC  
10TH HIGHEST VALUE IS 227.55012 AT ( 416368.79, 3746554.83, 28.96, 28.96, 0.00) DC

VOL5 1ST HIGHEST VALUE IS 7700.89928 AT ( 416342.39, 3746499.24, 28.96, 28.96, 0.00) DC  
2ND HIGHEST VALUE IS 3601.49211 AT ( 416332.84, 3746498.80, 28.96, 28.96, 0.00) DC  
3RD HIGHEST VALUE IS 1436.82013 AT ( 416322.84, 3746499.46, 28.96, 28.96, 0.00) DC  
4TH HIGHEST VALUE IS 1114.78354 AT ( 416318.79, 3746504.83, 28.96, 28.96, 0.00) DC  
5TH HIGHEST VALUE IS 974.79363 AT ( 416368.79, 3746504.83, 28.96, 28.96, 0.00) DC  
6TH HIGHEST VALUE IS 721.78264 AT ( 416312.84, 3746498.80, 28.96, 28.96, 0.00) DC  
7TH HIGHEST VALUE IS 436.21738 AT ( 416302.62, 3746499.91, 28.96, 28.96, 0.00) DC  
8TH HIGHEST VALUE IS 272.61917 AT ( 416368.79, 3746554.83, 28.96, 28.96, 0.00) DC  
9TH HIGHEST VALUE IS 252.08088 AT ( 416318.79, 3746554.83, 28.96, 28.96, 0.00) DC  
10TH HIGHEST VALUE IS 210.08701 AT ( 416318.79, 3746454.83, 28.96, 28.96, 0.00) DC

VOL6 1ST HIGHEST VALUE IS 701.49643 AT ( 416318.79, 3746454.83, 28.96, 28.96, 0.00) DC  
2ND HIGHEST VALUE IS 317.91124 AT ( 416302.62, 3746499.91, 28.96, 28.96, 0.00) DC

3RD HIGHEST VALUE IS 281.39987 AT ( 416312.84, 3746498.80, 28.96, 28.96, 0.00) DC  
 4TH HIGHEST VALUE IS 275.73685 AT ( 416268.79, 3746404.83, 28.96, 28.96, 0.00) DC  
 5TH HIGHEST VALUE IS 250.29165 AT ( 416268.79, 3746504.83, 28.96, 28.96, 0.00) DC  
 6TH HIGHEST VALUE IS 229.10430 AT ( 416322.84, 3746499.46, 28.96, 28.96, 0.00) DC  
 7TH HIGHEST VALUE IS 220.52521 AT ( 416318.79, 3746404.83, 28.96, 28.96, 0.00) DC  
 8TH HIGHEST VALUE IS 219.94442 AT ( 416318.79, 3746504.83, 28.96, 28.96, 0.00) DC  
 9TH HIGHEST VALUE IS 189.14212 AT ( 416332.84, 3746498.80, 28.96, 28.96, 0.00) DC  
 10TH HIGHEST VALUE IS 177.46514 AT ( 416218.79, 3746454.83, 28.96, 28.96, 0.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART

GP = GRIDPOLR

DC = DISCCART

DP = DISCPOLR

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 1-HR RESULTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

| GROUP ID                | DATE                                   | NETWORK         |
|-------------------------|----------------------------------------|-----------------|
| AVERAGE CONC (YYMMDDHH) | RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) | OF TYPE GRID-ID |

SLINE1 HIGH 1ST HIGH VALUE IS 947.94353 ON 14092107: AT ( 416189.75, 3746447.47, 28.96, 28.96, 0.00) DC

SLINE2 HIGH 1ST HIGH VALUE IS 297.13151 ON 13091107: AT ( 416118.79, 3746404.83, 28.96, 28.96, 0.00) DC

SLINE3 HIGH 1ST HIGH VALUE IS 453.26383 ON 12061706: AT ( 416068.79, 3746404.83, 28.96, 28.96, 0.00) DC

SLINE4 HIGH 1ST HIGH VALUE IS 419.26880 ON 13091107: AT ( 416118.79, 3746254.83, 28.96, 28.96, 0.00) DC

SLINE5 HIGH 1ST HIGH VALUE IS 239.00545 ON 12061706: AT ( 416499.95, 3746290.96, 28.96, 28.96, 0.00) DC

VOL1 HIGH 1ST HIGH VALUE IS 37649.66029 ON 13042707: AT ( 416318.79, 3746504.83, 28.96, 28.96, 0.00) DC

VOL2 HIGH 1ST HIGH VALUE IS 31991.95632 ON 13091107: AT ( 416312.84, 3746498.80, 28.96, 28.96, 0.00) DC

VOL3 HIGH 1ST HIGH VALUE IS 31865.89060 ON 12061706: AT ( 416302.62, 3746499.91, 28.96, 28.96, 0.00) DC

VOL4 HIGH 1ST HIGH VALUE IS 31991.95632 ON 13091107: AT ( 416332.84, 3746498.80, 28.96, 28.96, 0.00) DC

VOL5 HIGH 1ST HIGH VALUE IS 31321.93971 ON 13091107: AT ( 416342.39, 3746499.24, 28.96, 28.96, 0.00) DC

VOL6 HIGH 1ST HIGH VALUE IS 2455.03291 ON 15032718: AT ( 416318.79, 3746454.83, 28.96, 28.96, 0.00) DC

\*\*\* RECEPTOR TYPES: GC = GRIDCART

GP = GRIDPOLR

DC = DISCCART

DP = DISCPOLR

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)

A Total of 8 Warning Message(s)

A Total of 2285 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 1588 Calm Hours Identified

A Total of 697 Missing Hours Identified ( 1.59 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*

\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*

SO W320 322 VPARAM: Input Parameter May Be Out-of-Range for Parameter SZINIT

SO W320 323 VPARAM: Input Parameter May Be Out-of-Range for Parameter SZINIT

SO W320 324 VPARAM: Input Parameter May Be Out-of-Range for Parameter SZINIT

SO W320 325 VPARAM: Input Parameter May Be Out-of-Range for Parameter SZINIT

SO W320 326 VPARAM: Input Parameter May Be Out-of-Range for Parameter SZINIT

SO W320 488 VPARAM: Input Parameter May Be Out-of-Range for Parameter SZINIT

ME W186 812 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50

ME W187 812 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*

\*\*\* AERMOD Finishes Successfully \*\*\*

\*\*\*\*\*

## **Appendix 4: HARP2 Output File**

GLCs loaded successfully  
Pollutants loaded successfully  
Pathway receptors loaded successfully  
\*\*\*\*\*

## RISK SCENARIO SETTINGS

Receptor Type: Resident  
Scenario: NCAcute  
Calculation Method: Derived

\*\*\*\*\*

## EXPOSURE DURATION PARAMETERS FOR CANCER

\*\*Exposure duration are only adjusted for cancer assessments\*\*

\*\*\*\*\*

## PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True  
Soil: False  
Dermal: False  
Mother's milk: False  
Water: False  
Fish: False  
Homegrown crops: False  
Beef: False  
Dairy: False  
Pig: False  
Chicken: False  
Egg: False

\*\*\*\*\*

## INHALATION

Daily breathing rate: LongTerm24HR

\*\*Worker Adjustment Factors\*\*

Worker adjustment factors enabled: NO

\*\*Fraction at time at home\*\*

NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

\*\*\*\*\*

## TIER 2 SETTINGS

Tier2 not used.

\*\*\*\*\*

Calculating acute risk

Acute risk breakdown by pollutant and receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond Avenue\HARP2\RAYMOND AVENUE\hra\AcuteNCAcuteRisk.csv  
Acute risk total by receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond Avenue\HARP2\RAYMOND AVENUE\hra\AcuteNCAcuteRiskSumByRec.csv  
HRA ran successfully

GLCs loaded successfully  
Pollutants loaded successfully  
Pathway receptors loaded successfully  
\*\*\*\*\*

## RISK SCENARIO SETTINGS

Receptor Type: Resident  
Scenario: NCChronic  
Calculation Method: Derived

\*\*\*\*\*

## EXPOSURE DURATION PARAMETERS FOR CANCER

\*\*Exposure duration are only adjusted for cancer assessments\*\*

\*\*\*\*\*

## PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True  
Soil: True  
Dermal: True  
Mother's milk: True  
Water: False  
Fish: False  
Homegrown crops: True  
Beef: False  
Dairy: False  
Pig: False  
Chicken: False  
Egg: False

\*\*\*\*\*

## INHALATION

Daily breathing rate: LongTerm24HR

\*\*Worker Adjustment Factors\*\*

Worker adjustment factors enabled: NO

\*\*Fraction at time at home\*\*

NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

\*\*\*\*\*

## SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05  
Soil mixing depth (m): 0.01  
Dermal climate: Mixed

\*\*\*\*\*

## HOME GROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden

Fraction leafy: 0.137

Fraction exposed: 0.137

Fraction protected: 0.137

Fraction root: 0.137

\*\*\*\*\*

## TIER 2 SETTINGS

Tier2 not used.

\*\*\*\*\*

Calculating chronic risk

Chronic risk breakdown by pollutant and receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond Avenue\HARP2\RAYMOND AVENUE\hra\ChronicNCChronicRisk.csv

Chronic risk total by receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond Avenue\HARP2\RAYMOND

AVENUE\hra\ChronicNCChronicRiskSumByRec.csv

HRA ran successfully

GLCs loaded successfully  
Pollutants loaded successfully  
Pathway receptors loaded successfully  
\*\*\*\*\*

## RISK SCENARIO SETTINGS

Receptor Type: Resident  
Scenario: Cancer  
Calculation Method: Derived

\*\*\*\*\*

## EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25  
Total Exposure Duration: 30

Exposure Duration Bin Distribution  
3rd Trimester Bin: 0.25  
0<2 Years Bin: 2  
2<9 Years Bin: 0  
2<16 Years Bin: 14  
16<30 Years Bin: 14  
16 to 70 Years Bin: 0

\*\*\*\*\*

## PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True  
Soil: False  
Dermal: False  
Mother's milk: False  
Water: False  
Fish: False  
Homegrown crops: False  
Beef: False  
Dairy: False  
Pig: False  
Chicken: False  
Egg: False

\*\*\*\*\*

## INHALATION

Daily breathing rate: LongTerm24HR

**\*\*Worker Adjustment Factors\*\***

Worker adjustment factors enabled: NO

**\*\*Fraction at time at home\*\***  
3rd Trimester to 16 years: OFF  
16 years to 70 years: OFF

\*\*\*\*\*  
TIER 2 SETTINGS  
Tier2 not used.

\*\*\*\*\*

Calculating cancer risk  
Cancer risk breakdown by pollutant and receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond Avenue\HARP2\RAYMOND AVENUE\hra\Residential CancerCancerRisk.csv  
Cancer risk total by receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond Avenue\HARP2\RAYMOND AVENUE\hra\Residential CancerCancerRiskSumByRec.csv  
HRA ran successfully

GLCs loaded successfully  
Pollutants loaded successfully  
Pathway receptors loaded successfully  
\*\*\*\*\*

## RISK SCENARIO SETTINGS

Receptor Type: Worker  
Scenario: Cancer  
Calculation Method: Derived

\*\*\*\*\*

## EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 16  
Total Exposure Duration: 25

Exposure Duration Bin Distribution  
3rd Trimester Bin: 0  
0<2 Years Bin: 0  
2<9 Years Bin: 0  
2<16 Years Bin: 0  
16<30 Years Bin: 0  
16 to 70 Years Bin: 25

\*\*\*\*\*

## PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True  
Soil: True  
Dermal: True  
Mother's milk: False  
Water: False  
Fish: False  
Homegrown crops: False  
Beef: False  
Dairy: False  
Pig: False  
Chicken: False  
Egg: False

\*\*\*\*\*

## INHALATION

Daily breathing rate: Moderate8HR

**\*\*Worker Adjustment Factors\*\***

Worker adjustment factors enabled: NO

**\*\*Fraction at time at home\*\***  
3rd Trimester to 16 years: OFF  
16 years to 70 years: OFF

\*\*\*\*\*  
**SOIL & DERMAL PATHWAY SETTINGS**

Deposition rate (m/s): 0.05  
Soil mixing depth (m): 0.01  
Dermal climate: Mixed

\*\*\*\*\*  
**TIER 2 SETTINGS**

Tier2 adjustments were used in this assessment. Please see the input file for details.  
Tier2 - What was changed: ED or start age changed|  
Calculating cancer risk  
Cancer risk breakdown by pollutant and receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond Avenue\HARP2\RAYMOND AVENUE\hra\WorkplaceCancerRisk.csv  
Cancer risk total by receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond Avenue\HARP2\RAYMOND AVENUE\hra\WorkplaceCancerRiskSumByRec.csv  
HRA ran successfully

GLCs loaded successfully  
Pollutants loaded successfully  
Pathway receptors loaded successfully  
\*\*\*\*\*

## RISK SCENARIO SETTINGS

Receptor Type: Resident  
Scenario: NCAcute  
Calculation Method: Derived

\*\*\*\*\*

## EXPOSURE DURATION PARAMETERS FOR CANCER

\*\*Exposure duration are only adjusted for cancer assessments\*\*

\*\*\*\*\*

## PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True  
Soil: False  
Dermal: False  
Mother's milk: False  
Water: False  
Fish: False  
Homegrown crops: False  
Beef: False  
Dairy: False  
Pig: False  
Chicken: False  
Egg: False

\*\*\*\*\*

## INHALATION

Daily breathing rate: LongTerm24HR

\*\*Worker Adjustment Factors\*\*

Worker adjustment factors enabled: NO

\*\*Fraction at time at home\*\*

NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

\*\*\*\*\*

## TIER 2 SETTINGS

Tier2 not used.

\*\*\*\*\*

Calculating acute risk

Acute risk breakdown by pollutant and receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond Avenue\HARP2\RAYMOND AVENUE (CONSTRUCTION)\hra\AcuteNCAcuteRisk.csv  
Acute risk total by receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond Avenue\HARP2\RAYMOND AVENUE (CONSTRUCTION)\hra\AcuteNCAcuteRiskSumByRec.csv  
HRA ran successfully

GLCs loaded successfully  
Pollutants loaded successfully  
Pathway receptors loaded successfully  
\*\*\*\*\*

## RISK SCENARIO SETTINGS

Receptor Type: Resident  
Scenario: NCChronic  
Calculation Method: Derived

\*\*\*\*\*

## EXPOSURE DURATION PARAMETERS FOR CANCER

\*\*Exposure duration are only adjusted for cancer assessments\*\*

\*\*\*\*\*

## PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True  
Soil: False  
Dermal: False  
Mother's milk: False  
Water: False  
Fish: False  
Homegrown crops: False  
Beef: False  
Dairy: False  
Pig: False  
Chicken: False  
Egg: False

\*\*\*\*\*

## INHALATION

Daily breathing rate: LongTerm24HR

\*\*Worker Adjustment Factors\*\*

Worker adjustment factors enabled: NO

\*\*Fraction at time at home\*\*

NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

\*\*\*\*\*

## TIER 2 SETTINGS

Tier2 not used.

\*\*\*\*\*

Calculating chronic risk

Chronic risk breakdown by pollutant and receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond Avenue\HARP2\RAYMOND AVENUE (CONSTRUCTION)\hra\ChronicNCChronicRisk.csv  
Chronic risk total by receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond Avenue\HARP2\RAYMOND AVENUE (CONSTRUCTION)\hra\ChronicNCChronicRiskSumByRec.csv  
HRA ran successfully

GLCs loaded successfully  
Pollutants loaded successfully  
Pathway receptors loaded successfully  
\*\*\*\*\*

## RISK SCENARIO SETTINGS

Receptor Type: Resident  
Scenario: Cancer  
Calculation Method: Derived

\*\*\*\*\*

## EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25  
Total Exposure Duration: 30

Exposure Duration Bin Distribution  
3rd Trimester Bin: 0.25  
0<2 Years Bin: 2  
2<9 Years Bin: 0  
2<16 Years Bin: 14  
16<30 Years Bin: 14  
16 to 70 Years Bin: 0

\*\*\*\*\*

## PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True  
Soil: False  
Dermal: False  
Mother's milk: False  
Water: False  
Fish: False  
Homegrown crops: False  
Beef: False  
Dairy: False  
Pig: False  
Chicken: False  
Egg: False

\*\*\*\*\*

## INHALATION

Daily breathing rate: LongTerm24HR

**\*\*Worker Adjustment Factors\*\***

Worker adjustment factors enabled: NO

**\*\*Fraction at time at home\*\***  
3rd Trimester to 16 years: OFF  
16 years to 70 years: ON

\*\*\*\*\*  
TIER 2 SETTINGS  
Tier2 not used.

\*\*\*\*\*

Calculating cancer risk  
Cancer risk breakdown by pollutant and receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond Avenue\HARP2\RAYMOND AVENUE (CONSTRUCTION)\hra\Residential Cancer (Construction)\CancerRisk.csv  
Cancer risk total by receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Raymond Avenue\HARP2\RAYMOND AVENUE (CONSTRUCTION)\hra\Residential Cancer (Construction)\CancerRiskSumByRec.csv  
HRA ran successfully

Source: EMFAC2021 (v1.0.2) Emission Rates  
Region Type: County  
Region: Orange  
Calendar Year: 2024  
Season: Annual  
Vehicle Classification: EMFAC202x Categories  
Units: miles/day for CVMT and EVMT, g/mile for RUNEX, PMBW and PMTW, mph for Speed, kWh/mile for Energy Consumption, gallon/mile for Fuel Consumption. PHEV calculated based on total VMT.

| Region | Calendar Year | Vehicle Category   | Model Year | Speed | Fuel   | Total VMT   | PM10_RUNEX  |
|--------|---------------|--------------------|------------|-------|--------|-------------|-------------|
| Orange | 2024          | T7 Tractor Class 8 | Aggregate  | 10    | Diesel | 478.8408367 | 0.008479127 |
| Orange | 2024          | T7 Tractor Class 8 | Aggregate  | 40    | Diesel | 9582.584943 | 0.009091691 |

## Mobile Truck Emissions

pounds per gram: 0.002205

### Line Volume Source #1 (on-site):

#### Assumptions:

1. Average distanced travelled per truck: 0.24395033 miles
2. # of trucks per day visiting the project site: 45 trucks
3. PM10 Mobile Emissions Factors (Orange County, 10 MPH, T7 Tractor Class 8, Year 2022):

#### Source:

AERMOD  
City of Fullerton  
EMFAC2021

Year: 2022 0.00847913 g/mile

Therefore:

Total daily PM10 On-site Mobile Emissions Generated by the project:

0.09308186 g/day-all trucks

0.00020521 lbs/day-all trucks

0.0749017 lbs/year-all trucks

Max Hr Emissions

Two times the average trip generation over the course of 1 hour, based on the given 24-hour daily totals (conservative estimate)

0.000017 lbs/hour-all trucks

### Line Volume Source #2 (Off-site Mobile Diesel Truck Travel - Ingress 1):

#### Assumptions:

1. Average distanced travelled per truck: 0.96262825 miles
2. # of trucks per day visiting the project site: 45 trucks
3. PM10 Mobile Emissions Factors (Orange County, 40 MPH, T7 Tractor Class 8, Year 2022):

#### Source:

AERMOD  
City of Fullerton  
EMFAC2021

Year: 2022 0.00909169 g/mile

Therefore:

Total daily PM10 On-site Mobile Emissions Generated by the project:

0.39383633 g/day-all trucks

0.00086826 lbs/day-all trucks

0.3169147 lbs/year-all trucks

Max Hr Emissions

Two times the average trip generation over the course of 1 hour, based on the given 24-hour daily totals (conservative estimate)

0.000072 lbs/hour-all trucks

### Line Volume Source #3 (Off-site Mobile Diesel Truck Travel - Egress 1):

#### Assumptions:

1. Average distanced travelled per truck: 0.55215044 miles
2. # of trucks per day visiting the project site: 45 trucks
3. PM10 Mobile Emissions Factors (Orange County, 40 MPH, T7 Tractor Class 8, Year 2022):

#### Source:

AERMOD  
City of Fullerton  
EMFAC2021

Year: 2022 0.00909169 g/mile

Therefore:

Total daily PM10 On-site Mobile Emissions Generated by the project:

0.22589915 g/day-all trucks

0.00049802 lbs/day-all trucks

0.18177795 lbs/year-all trucks

Max Hr Emissions

Two times the average trip generation over the course of 1 hour, based on the given 24-hour daily totals (conservative estimate)

0.000042 lbs/hour-all trucks

### Line Volume Source #4 (Off-site Mobile Diesel Truck Travel - Ingress 2):

#### Assumptions:

1. Average distanced travelled per truck: 0.74452696 miles
2. # of trucks per day visiting the project site: 45 trucks
3. PM10 Mobile Emissions Factors (Orange County, 40 MPH, T7 Tractor Class 8, Year 2022):

#### Source:

AERMOD  
City of Fullerton  
EMFAC2021

Year: 2022 0.00909169 g/mile

Therefore:

Total daily PM10 On-site Mobile Emissions Generated by the project:

0.3046054 g/day-all trucks

0.00067154 lbs/day-all trucks

0.24511179 lbs/year-all trucks

Max Hr Emissions

Two times the average trip generation over the course of 1 hour, based on the given 24-hour daily totals (conservative estimate)

0.000056 lbs/hour-all trucks

### Line Volume Source #5 (Off-site Mobile Diesel Truck Travel - Egress 2):

#### Assumptions:

1. Average distanced travelled per truck: 1.17091187 miles
2. # of trucks per day visiting the project site: 45 trucks
3. PM10 Mobile Emissions Factors (Orange County, 40 MPH, T7 Tractor Class 8, Year 2022):

#### Source:

AERMOD  
City of Fullerton  
EMFAC2021

Year: 2022 0.00909169 g/mile

Therefore:

Total daily PM10 On-site Mobile Emissions Generated by the project:

0.47905059 g/day-all trucks

0.00105612 lbs/day-all trucks

0.38548545 lbs/year-all trucks

Max Hr Emissions

Two times the average trip generation over the course of 1 hour, based on the given 24-hour daily totals (conservative estimate)

0.000088 lbs/hour-all trucks

Truck Idling

Idling Emission Rates taken from tables 3.2-41 and 42, of the EMFAC2014 Volume III - Technical Documentation Guidebook:  
<http://www.arb.ca.gov/msei/downloads/emfac2014/emfac2014-vol3-technical-documentation-052015.pdf>

Idling Emissions:

Table 3.2-40: Revised HHD Diesel Truck Low Idle Emission Rates (after 2009)  
Table 3.2-41: High Idle Emissions Rates for Summer (2009 and later)  
Table 3.2-42: High Idle Emissions Rates for Winter (2009 and later)

PM10 0.001 g/hr-truck  
PM10 0.003 g/hr-truck  
PM10 0.004 g/hr-truck

pounds per gram: 0.002205

Note: using an average of the summer and winter high idle emissions rates for the emission factor calcs

0.000291667 g/5 minutes-truck  
0.000291667 g/day-truck  
24 hours in day  
45 # of trucks  
0.013125 g/day-all trucks  
4.790625 g/year-all trucks  
0.010561508 lbs/year-all trucks

Note: assuming 5 minutes of idling per truck

0.000546875 g/hr-all trucks  
9.11458E-06 g/min-all trucks  
1.5191E-07 g/sec-all trucks

45.00 Peak hour truck trips (maximum peak hour truck trips is used for the sake of a conservative analysis)

0.013125 g/5 minutes-vehicles combined  
0.0000289 lbs/5 minutes-vehicles combined

Annual Emissions:  
Max Hr Emissions:

0.002112302 lbs/year-all trucks for each of the 5 idling points  
0.0000058 for each sampling point, for max 1 hr

Total: 0.016898 lbs/year-all trucks-total

## Construction Emissions (Off-Road Equipment)

365 days per year

| <u>Phase</u>          | <u>Average Daily PM10</u> | <u>Days</u>          |
|-----------------------|---------------------------|----------------------|
| Demolition            | 0.147966831 lbs/day       | 45 Source: CalEEMod  |
| Grading               | 0.059402637 lbs/day       | 23 Source: CalEEMod  |
| Building Construction | 0.180207656 lbs/day       | 240 Source: CalEEMod |
| Paving                | 0.003587824 lbs/day       | 22 Source: CalEEMod  |
| Architectural Coating | 0.002008193 lbs/day       | 23 Source: CalEEMod  |

51.39972609 lbs/year

### Amortized over 25 years:

**2.055989044** lbs/year

### Max Hr Emissions:

**0.000704106** Note: Assumes max hour is three times average rate