

**Appendix B:**  
**Air Quality, Greenhouse Gas Emissions, and Energy Supporting  
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# Appendix B

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# Danville Martin Hills Residential Project Detailed Report

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# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field                  | Value                                     |
|-----------------------------|-------------------------------------------|
| Project Name                | Danville Martin Hills Residential Project |
| Construction Start Date     | 6/1/2026                                  |
| Lead Agency                 | —                                         |
| Land Use Scale              | Project/site                              |
| Analysis Level for Defaults | County                                    |
| Windspeed (m/s)             | 3.00000                                   |
| Precipitation (days)        | 17.2000                                   |
| Location                    | 37.79714492678869, -121.9594447183519     |
| County                      | Contra Costa                              |
| City                        | Danville                                  |
| Air District                | Bay Area AQMD                             |
| Air Basin                   | San Francisco Bay Area                    |
| TAZ                         | 1375                                      |
| EDFZ                        | 1                                         |
| Electric Utility            | Pacific Gas & Electric Company            |
| Gas Utility                 | Pacific Gas & Electric                    |
| App Version                 | 2022.1.1.37                               |

## 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 |
|-----------------------|---------|---------------|-------------|-----------------------|------------------------|--------------------------------|------------|-------------|
| Single Family Housing | 27.0000 | Dwelling Unit | 10.8100     | 132,963               | 196,630                | —                              | 78.0000    | —           |

|                            |          |                   |         |         |         |   |   |   |
|----------------------------|----------|-------------------|---------|---------|---------|---|---|---|
| Other Asphalt Surfaces     | 1.61000  | Acre              | 1.61000 | 0.00000 | 0.00000 | — | — | — |
| Other Non-Asphalt Surfaces | 1.15000  | Acre              | 1.15000 | 0.00000 | 0.00000 | — | — | — |
| User Defined Recreational  | 1.000000 | User Defined Unit | 16.4900 | 0.00000 | 0.00000 | — | — | — |

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

No measures selected

## 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.              | 95.4409 | 95.4165 | 29.2694 | 29.5273 | 0.06591 | 1.24325 | 7.82499 | 9.06824 | 1.14385 | 3.97776 | 5.12161 | —    | 7,526.08 | 7,526.08 | 0.33027 | 0.18142 | 2.20998 | 7,590.61 |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | —       | —        |
| Unmit.              | 1.31954 | 1.10230 | 9.98464 | 13.3359 | 0.02393 | 0.37972 | 0.10069 | 0.48041 | 0.34943 | 0.02445 | 0.37388 | —    | 2,550.68 | 2,550.68 | 0.10361 | 0.03401 | 0.01282 | 2,563.42 |
| Average Daily (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | —       | —        |
| Unmit.              | 5.78336 | 5.69199 | 7.48930 | 8.35473 | 0.01659 | 0.29953 | 0.93999 | 1.23952 | 0.27515 | 0.41088 | 0.68603 | —    | 1,841.31 | 1,841.31 | 0.07773 | 0.03372 | 0.18486 | 1,853.49 |
| Annual (Max)        | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | —       | —        |
| Unmit.              | 1.05546 | 1.03879 | 1.36680 | 1.52474 | 0.00303 | 0.05466 | 0.17155 | 0.22621 | 0.05021 | 0.07499 | 0.12520 | —    | 304.850  | 304.850  | 0.01287 | 0.00558 | 0.03060 | 306.866  |

### 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) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | —       | —        |
| 2026                 | 3.80801 | 3.20588 | 29.2694 | 29.5273 | 0.06591 | 1.24325 | 7.82499 | 9.06824 | 1.14385 | 3.97776 | 5.12161 | —    | 7,526.08 | 7,526.08 | 0.33027 | 0.18142 | 2.20998 | 7,590.61 |
| 2027                 | 95.4409 | 95.4165 | 9.50501 | 13.3405 | 0.02393 | 0.33764 | 0.26492 | 0.57045 | 0.31072 | 0.06800 | 0.34968 | —    | 2,554.49 | 2,554.49 | 0.10296 | 0.09472 | 1.56080 | 2,567.58 |
| Daily - Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | —       | —        |
| 2026                 | 1.31954 | 1.10230 | 9.98464 | 13.3359 | 0.02393 | 0.37972 | 0.10069 | 0.48041 | 0.34943 | 0.02445 | 0.37388 | —    | 2,550.68 | 2,550.68 | 0.10361 | 0.03401 | 0.01282 | 2,563.42 |
| 2027                 | 1.26848 | 1.05989 | 9.51397 | 13.2869 | 0.02393 | 0.33764 | 0.10069 | 0.43833 | 0.31072 | 0.02445 | 0.33517 | —    | 2,547.53 | 2,547.53 | 0.10339 | 0.03401 | 0.01150 | 2,560.27 |
| Average Daily        | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | —       | —        |
| 2026                 | 0.99011 | 0.82496 | 7.48930 | 8.35473 | 0.01659 | 0.29953 | 0.93999 | 1.23952 | 0.27515 | 0.41088 | 0.68603 | —    | 1,841.31 | 1,841.31 | 0.07773 | 0.03372 | 0.18486 | 1,853.49 |
| 2027                 | 5.78336 | 5.69199 | 4.13152 | 5.77145 | 0.01029 | 0.14795 | 0.05364 | 0.20159 | 0.13618 | 0.01322 | 0.14940 | —    | 1,108.30 | 1,108.30 | 0.04520 | 0.01831 | 0.11204 | 1,115.00 |
| Annual               | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | —       | —        |
| 2026                 | 0.18069 | 0.15056 | 1.36680 | 1.52474 | 0.00303 | 0.05466 | 0.17155 | 0.22621 | 0.05021 | 0.07499 | 0.12520 | —    | 304.850  | 304.850  | 0.01287 | 0.00558 | 0.03060 | 306.866  |
| 2027                 | 1.05546 | 1.03879 | 0.75400 | 1.05329 | 0.00188 | 0.02700 | 0.00979 | 0.03679 | 0.02485 | 0.00241 | 0.02727 | —    | 183.492  | 183.492  | 0.00748 | 0.00303 | 0.01855 | 184.601  |

### 3. Construction Emissions Details

#### 3.1. Site Preparation (2026) - 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 Equipm             | 3.74146 | 3.14387 | 29.1635 | 28.8082 | 0.04890 | 1.24251 | —       | 1.24251 | 1.14311 | —       | 1.14311 | — | 5,297.94 | 5,297.94 | 0.21491 | 0.04298 | —       | 5,316.12 |
| Dust From Material Movement | —       | —       | —       | —       | —       | —       | 7.66623 | 7.66623 | —       | 3.93995 | 3.93995 | — | —        | —        | —       | —       | —       | —        |
| Onsite truck                | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |
| Daily, Winter (Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —        | —        | —       | —       | —       | —        |
| Average Daily               | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —        | —        | —       | —       | —       | —        |
| Off-Road Equipment          | 0.20501 | 0.17227 | 1.59800 | 1.57853 | 0.00268 | 0.06808 | —       | 0.06808 | 0.06264 | —       | 0.06264 | — | 290.298  | 290.298  | 0.01178 | 0.00236 | —       | 291.294  |
| Dust From Material Movement | —       | —       | —       | —       | —       | —       | 0.42007 | 0.42007 | —       | 0.21589 | 0.21589 | — | —        | —        | —       | —       | —       | —        |
| Onsite truck                | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |
| Annual                      | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —        | —        | —       | —       | —       | —        |
| Off-Road Equipment          | 0.03741 | 0.03144 | 0.29164 | 0.28808 | 0.00049 | 0.01243 | —       | 0.01243 | 0.01143 | —       | 0.01143 | — | 48.0622  | 48.0622  | 0.00195 | 0.00039 | —       | 48.2271  |
| Dust From Material Movement | —       | —       | —       | —       | —       | —       | 0.07666 | 0.07666 | —       | 0.03940 | 0.03940 | — | —        | —        | —       | —       | —       | —        |
| Onsite truck                | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |
| Offsite                     | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —        | —        | —       | —       | —       | —        |

|                     |         |         |         |         |            |         |         |         |         |         |         |   |         |         |         |         |         |         |
|---------------------|---------|---------|---------|---------|------------|---------|---------|---------|---------|---------|---------|---|---------|---------|---------|---------|---------|---------|
| Daily, Summer (Max) | —       | —       | —       | —       | —          | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Worker              | 0.06150 | 0.06034 | 0.03789 | 0.68605 | 0.00000    | 0.00000 | 0.14466 | 0.14466 | 0.00000 | 0.03391 | 0.03391 | — | 151.271 | 151.271 | 0.00270 | 0.00567 | 0.55706 | 153.586 |
| Vendor              | 0.00505 | 0.00167 | 0.06799 | 0.03306 | 0.00037    | 0.00074 | 0.01409 | 0.01483 | 0.00074 | 0.00389 | 0.00463 | — | 53.0264 | 53.0264 | 0.00297 | 0.00776 | 0.12817 | 55.5414 |
| Hauling             | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000    | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Daily, Winter (Max) | —       | —       | —       | —       | —          | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Average Daily       | —       | —       | —       | —       | —          | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Worker              | 0.00316 | 0.00283 | 0.00241 | 0.03099 | 0.00000    | 0.00000 | 0.00784 | 0.00784 | 0.00000 | 0.00184 | 0.00184 | — | 7.66615 | 7.66615 | 0.00017 | 0.00033 | 0.01316 | 7.78244 |
| Vendor              | 0.00027 | 0.00009 | 0.00385 | 0.00182 | 0.00002    | 0.00004 | 0.00076 | 0.00081 | 0.00004 | 0.00021 | 0.00025 | — | 2.90625 | 2.90625 | 0.00016 | 0.00043 | 0.00302 | 3.04005 |
| Hauling             | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000    | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Annual              | —       | —       | —       | —       | —          | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Worker              | 0.00058 | 0.00052 | 0.00044 | 0.00565 | 0.00000    | 0.00000 | 0.00143 | 0.00143 | 0.00000 | 0.00034 | 0.00034 | — | 1.26922 | 1.26922 | 0.00003 | 0.00005 | 0.00218 | 1.28847 |
| Vendor              | 0.00005 | 0.00002 | 0.00070 | 0.00033 | < 0.000005 | 0.00001 | 0.00014 | 0.00015 | 0.00001 | 0.00004 | 0.00005 | — | 0.48116 | 0.48116 | 0.00003 | 0.00007 | 0.00050 | 0.50332 |
| Hauling             | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000    | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |

### 3.3. Grading (2026) - 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  | 3.62261 | 3.04400 | 27.2253 | 27.5707 | 0.06093 | 1.12137 | —     | 1.12137 | 1.03166 | —      | 1.03166 | —    | 6,598.58 | 6,598.58 | 0.26767 | 0.05353 | — | 6,621.22 |

|                             |         |         |         |         |         |         |         |         |         |         |         |   |         |         |         |         |         |         |
|-----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|---------|---------|---------|---------|---------|---------|
| Dust From Material Movement | —       | —       | —       | —       | —       | —       | 3.59164 | 3.59164 | —       | 1.42530 | 1.42530 | — | —       | —       | —       | —       | —       | —       |
| Onsite truck                | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Daily, Winter (Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Average Daily               | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Off-Road Equipment          | 0.44662 | 0.37529 | 3.35654 | 3.39912 | 0.00751 | 0.13825 | —       | 0.13825 | 0.12719 | —       | 0.12719 | — | 813.523 | 813.523 | 0.03300 | 0.00660 | —       | 816.315 |
| Dust From Material Movement | —       | —       | —       | —       | —       | —       | 0.44280 | 0.44280 | —       | 0.17572 | 0.17572 | — | —       | —       | —       | —       | —       | —       |
| Onsite truck                | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Annual                      | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Off-Road Equipment          | 0.08151 | 0.06849 | 0.61257 | 0.62034 | 0.00137 | 0.02523 | —       | 0.02523 | 0.02321 | —       | 0.02321 | — | 134.688 | 134.688 | 0.00546 | 0.00109 | —       | 135.150 |
| Dust From Material Movement | —       | —       | —       | —       | —       | —       | 0.08081 | 0.08081 | —       | 0.03207 | 0.03207 | — | —       | —       | —       | —       | —       | —       |
| Onsite truck                | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Offsite                     | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Daily, Summer (Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Worker                      | 0.07028 | 0.06896 | 0.04330 | 0.78405 | 0.00000 | 0.00000 | 0.16533 | 0.16533 | 0.00000 | 0.03875 | 0.03875 | — | 172.882 | 172.882 | 0.00309 | 0.00648 | 0.63664 | 175.527 |

|                     |         |         |         |         |         |         |         |         |         |         |         |   |         |         |         |         |         |         |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|---------|---------|---------|---------|---------|---------|
| Vendor              | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Hauling             | 0.07659 | 0.01636 | 0.94302 | 0.45598 | 0.00498 | 0.01423 | 0.19941 | 0.21364 | 0.00948 | 0.05459 | 0.06408 | — | 754.627 | 754.627 | 0.05952 | 0.12141 | 1.57333 | 793.867 |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Worker              | 0.00812 | 0.00727 | 0.00619 | 0.07968 | 0.00000 | 0.00000 | 0.02016 | 0.02016 | 0.00000 | 0.00472 | 0.00472 | — | 19.7130 | 19.7130 | 0.00043 | 0.00085 | 0.03383 | 20.0120 |
| Vendor              | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Hauling             | 0.00938 | 0.00199 | 0.12015 | 0.05642 | 0.00061 | 0.00175 | 0.02438 | 0.02613 | 0.00117 | 0.00668 | 0.00785 | — | 93.0513 | 93.0513 | 0.00734 | 0.01497 | 0.08361 | 97.7788 |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Worker              | 0.00148 | 0.00133 | 0.00113 | 0.01454 | 0.00000 | 0.00000 | 0.00368 | 0.00368 | 0.00000 | 0.00086 | 0.00086 | — | 3.26371 | 3.26371 | 0.00007 | 0.00014 | 0.00560 | 3.31322 |
| Vendor              | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Hauling             | 0.00171 | 0.00036 | 0.02193 | 0.01030 | 0.00011 | 0.00032 | 0.00445 | 0.00477 | 0.00021 | 0.00122 | 0.00143 | — | 15.4057 | 15.4057 | 0.00121 | 0.00248 | 0.01384 | 16.1884 |

### 3.5. Building Construction (2026) - 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  | 1.27993 | 1.07101 | 9.85401 | 12.9664 | 0.02340 | 0.37865 | —       | 0.37865 | 0.34836 | —       | 0.34836 | —    | 2,397.24 | 2,397.24 | 0.09724 | 0.01945 | —       | 2,405.47 |
| Onsite truck        | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | —    | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | —       | —        |

|                     |         |         |         |         |         |         |         |         |         |         |         |   |          |          |         |         |         |          |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|----------|----------|---------|---------|---------|----------|
| Off-Road            | 1.27993 | 1.07101 | 9.85401 | 12.9664 | 0.02340 | 0.37865 | —       | 0.37865 | 0.34836 | —       | 0.34836 | — | 2,397.24 | 2,397.24 | 0.09724 | 0.01945 | —       | 2,405.47 |
| Onsite truck        | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —        | —        | —       | —       | —       | —        |
| Off-Road Equipment  | 0.30809 | 0.25780 | 2.37190 | 3.12107 | 0.00563 | 0.09114 | —       | 0.09114 | 0.08385 | —       | 0.08385 | — | 577.027  | 577.027  | 0.02341 | 0.00468 | —       | 579.007  |
| Onsite truck        | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —        | —        | —       | —       | —       | —        |
| Off-Road Equipment  | 0.05623 | 0.04705 | 0.43287 | 0.56959 | 0.00103 | 0.01663 | —       | 0.01663 | 0.01530 | —       | 0.01530 | — | 95.5333  | 95.5333  | 0.00388 | 0.00078 | —       | 95.8612  |
| Onsite truck        | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |
| Offsite             | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —        | —        | —       | —       | —       | —        |
| Daily, Summer (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —        | —        | —       | —       | —       | —        |
| Worker              | 0.03416 | 0.03351 | 0.02104 | 0.38105 | 0.00000 | 0.00000 | 0.08035 | 0.08035 | 0.00000 | 0.01883 | 0.01883 | — | 84.0204  | 84.0204  | 0.00150 | 0.00315 | 0.30941 | 85.3060  |
| Vendor              | 0.00729 | 0.00241 | 0.09812 | 0.04771 | 0.00053 | 0.00107 | 0.02034 | 0.02141 | 0.00107 | 0.00562 | 0.00669 | — | 76.5250  | 76.5250  | 0.00429 | 0.01120 | 0.18497 | 80.1546  |
| Hauling             | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —        | —        | —       | —       | —       | —        |
| Worker              | 0.03244 | 0.02908 | 0.02756 | 0.32098 | 0.00000 | 0.00000 | 0.08035 | 0.08035 | 0.00000 | 0.01883 | 0.01883 | — | 76.8746  | 76.8746  | 0.00214 | 0.00336 | 0.00803 | 77.9388  |
| Vendor              | 0.00716 | 0.00221 | 0.10307 | 0.04851 | 0.00053 | 0.00107 | 0.02034 | 0.02141 | 0.00107 | 0.00562 | 0.00669 | — | 76.5691  | 76.5691  | 0.00423 | 0.01120 | 0.00479 | 80.0169  |
| Hauling             | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —        | —        | —       | —       | —       | —        |

|         |         |         |         |         |         |         |         |         |         |         |         |   |         |         |         |         |         |         |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|---------|---------|---------|---------|---------|---------|
| Worker  | 0.00771 | 0.00690 | 0.00588 | 0.07560 | 0.00000 | 0.00000 | 0.01913 | 0.01913 | 0.00000 | 0.00448 | 0.00448 | — | 18.7048 | 18.7048 | 0.00041 | 0.00081 | 0.03210 | 18.9885 |
| Vendor  | 0.00174 | 0.00055 | 0.02438 | 0.01151 | 0.00013 | 0.00026 | 0.00485 | 0.00511 | 0.00026 | 0.00134 | 0.00160 | — | 18.4243 | 18.4243 | 0.00103 | 0.00270 | 0.01913 | 19.2726 |
| Hauling | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Annual  | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Worker  | 0.00141 | 0.00126 | 0.00107 | 0.01380 | 0.00000 | 0.00000 | 0.00349 | 0.00349 | 0.00000 | 0.00082 | 0.00082 | — | 3.09679 | 3.09679 | 0.00007 | 0.00013 | 0.00532 | 3.14377 |
| Vendor  | 0.00032 | 0.00010 | 0.00445 | 0.00210 | 0.00002 | 0.00005 | 0.00089 | 0.00093 | 0.00005 | 0.00024 | 0.00029 | — | 3.05035 | 3.05035 | 0.00017 | 0.00045 | 0.00317 | 3.19079 |
| Hauling | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |

### 3.7. Building Construction (2027) - 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  | 1.23076 | 1.02988 | 9.39093 | 12.9379 | 0.02340 | 0.33657 | —       | 0.33657 | 0.30965 | —       | 0.30965 | —    | 2,397.08 | 2,397.08 | 0.09724 | 0.01945 | —       | 2,405.30 |
| Onsite truck        | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | —    | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | —       | —        |
| Off-Road Equipment  | 1.23076 | 1.02988 | 9.39093 | 12.9379 | 0.02340 | 0.33657 | —       | 0.33657 | 0.30965 | —       | 0.30965 | —    | 2,397.08 | 2,397.08 | 0.09724 | 0.01945 | —       | 2,405.30 |
| Onsite truck        | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | —    | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | —       | —        |

|                     |         |         |         |         |         |         |         |         |         |         |         |   |         |         |         |         |         |         |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|---------|---------|---------|---------|---------|---------|
| Off-Road            | 0.47448 | 0.39704 | 3.62038 | 4.98782 | 0.00902 | 0.12976 | —       | 0.12976 | 0.11938 | —       | 0.11938 | — | 924.118 | 924.118 | 0.03749 | 0.00750 | —       | 927.289 |
| Onsite truck        | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Off-Road Equipment  | 0.08659 | 0.07246 | 0.66072 | 0.91028 | 0.00165 | 0.02368 | —       | 0.02368 | 0.02179 | —       | 0.02179 | — | 152.998 | 152.998 | 0.00621 | 0.00124 | —       | 153.523 |
| Onsite truck        | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Offsite             | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Daily, Summer (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Worker              | 0.03287 | 0.02972 | 0.02061 | 0.35713 | 0.00000 | 0.00000 | 0.08035 | 0.08035 | 0.00000 | 0.01883 | 0.01883 | — | 82.4373 | 82.4373 | 0.00150 | 0.00315 | 0.28037 | 83.6939 |
| Vendor              | 0.00676 | 0.00241 | 0.09346 | 0.04538 | 0.00053 | 0.00107 | 0.02034 | 0.02141 | 0.00107 | 0.00562 | 0.00669 | — | 74.9765 | 74.9765 | 0.00423 | 0.01120 | 0.16281 | 78.5823 |
| Hauling             | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Worker              | 0.03116 | 0.02779 | 0.02462 | 0.30223 | 0.00000 | 0.00000 | 0.08035 | 0.08035 | 0.00000 | 0.01883 | 0.01883 | — | 75.4326 | 75.4326 | 0.00193 | 0.00336 | 0.00728 | 76.4907 |
| Vendor              | 0.00657 | 0.00221 | 0.09841 | 0.04672 | 0.00053 | 0.00107 | 0.02034 | 0.02141 | 0.00107 | 0.00562 | 0.00669 | — | 75.0236 | 75.0236 | 0.00423 | 0.01120 | 0.00422 | 78.4709 |
| Hauling             | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Worker              | 0.01193 | 0.01063 | 0.00924 | 0.11330 | 0.00000 | 0.00000 | 0.03063 | 0.03063 | 0.00000 | 0.00718 | 0.00718 | — | 29.3962 | 29.3962 | 0.00066 | 0.00121 | 0.04672 | 29.8213 |
| Vendor              | 0.00256 | 0.00088 | 0.03705 | 0.01774 | 0.00021 | 0.00041 | 0.00777 | 0.00818 | 0.00041 | 0.00215 | 0.00256 | — | 28.9123 | 28.9123 | 0.00163 | 0.00432 | 0.02708 | 30.2668 |
| Hauling             | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Worker              | 0.00218 | 0.00194 | 0.00169 | 0.02068 | 0.00000 | 0.00000 | 0.00559 | 0.00559 | 0.00000 | 0.00131 | 0.00131 | — | 4.86687 | 4.86687 | 0.00011 | 0.00020 | 0.00773 | 4.93725 |
| Vendor              | 0.00047 | 0.00016 | 0.00676 | 0.00324 | 0.00004 | 0.00008 | 0.00142 | 0.00149 | 0.00008 | 0.00039 | 0.00047 | — | 4.78677 | 4.78677 | 0.00027 | 0.00071 | 0.00448 | 5.01101 |

|         |         |         |         |         |         |         |         |         |         |         |         |   |         |         |         |         |         |         |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|---------|---------|---------|---------|---------|---------|
| Hauling | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|---------|---------|---------|---------|---------|---------|

### 3.9. Paving (2027) - 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  | 0.87761 | 0.73744 | 6.94439 | 9.95313 | 0.01395 | 0.29813 | —       | 0.29813 | 0.27428 | —       | 0.27428 | —    | 1,511.11 | 1,511.11 | 0.06130 | 0.01226 | —       | 1,516.29 |
| Paving              | 0.21091 | 0.21091 | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | —       | —        |
| Onsite truck        | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | —    | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | —       | —        |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | —       | —        |
| Off-Road Equipment  | 0.04809 | 0.04041 | 0.38051 | 0.54538 | 0.00076 | 0.01634 | —       | 0.01634 | 0.01503 | —       | 0.01503 | —    | 82.8004  | 82.8004  | 0.00336 | 0.00067 | —       | 83.0845  |
| Paving              | 0.01156 | 0.01156 | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | —       | —        |
| Onsite truck        | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | —    | 0.00000  | 0.00000  | 0.00000 | 0.00000 | 0.00000 | 0.00000  |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | —       | —        |
| Off-Road Equipment  | 0.00878 | 0.00737 | 0.06944 | 0.09953 | 0.00014 | 0.00298 | —       | 0.00298 | 0.00274 | —       | 0.00274 | —    | 13.7085  | 13.7085  | 0.00056 | 0.00011 | —       | 13.7556  |
| Paving              | 0.00211 | 0.00211 | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    | —        | —        | —       | —       | —       | —        |

|                     |         |         |         |         |         |         |         |         |         |         |         |   |         |         |         |         |         |         |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|---------|---------|---------|---------|---------|---------|
| Onsite truck        | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Offsite             | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Daily, Summer (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Worker              | 0.05073 | 0.04587 | 0.03181 | 0.55113 | 0.00000 | 0.00000 | 0.12400 | 0.12400 | 0.00000 | 0.02906 | 0.02906 | — | 127.218 | 127.218 | 0.00231 | 0.00486 | 0.43267 | 129.157 |
| Vendor              | 0.04683 | 0.01667 | 0.64763 | 0.31447 | 0.00370 | 0.00741 | 0.14092 | 0.14833 | 0.00741 | 0.03893 | 0.04634 | — | 519.534 | 519.534 | 0.02928 | 0.07760 | 1.12813 | 544.519 |
| Hauling             | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Worker              | 0.00262 | 0.00233 | 0.00203 | 0.02485 | 0.00000 | 0.00000 | 0.00672 | 0.00672 | 0.00000 | 0.00157 | 0.00157 | — | 6.44774 | 6.44774 | 0.00014 | 0.00027 | 0.01025 | 6.54099 |
| Vendor              | 0.00252 | 0.00086 | 0.03649 | 0.01747 | 0.00020 | 0.00041 | 0.00765 | 0.00806 | 0.00041 | 0.00212 | 0.00252 | — | 28.4750 | 28.4750 | 0.00160 | 0.00425 | 0.02667 | 29.8089 |
| Hauling             | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Worker              | 0.00048 | 0.00043 | 0.00037 | 0.00454 | 0.00000 | 0.00000 | 0.00123 | 0.00123 | 0.00000 | 0.00029 | 0.00029 | — | 1.06750 | 1.06750 | 0.00002 | 0.00004 | 0.00170 | 1.08293 |
| Vendor              | 0.00046 | 0.00016 | 0.00666 | 0.00319 | 0.00004 | 0.00007 | 0.00140 | 0.00147 | 0.00007 | 0.00039 | 0.00046 | — | 4.71436 | 4.71436 | 0.00027 | 0.00070 | 0.00442 | 4.93521 |
| Hauling             | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |

### 3.11. Architectural Coating (2027) - 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     | 0.13715 | 0.11335 | 0.83116 | 1.12539 | 0.00173 | 0.01905 | —       | 0.01905 | 0.01752 | —       | 0.01752 | — | 133.513 | 133.513 | 0.00542 | 0.00108 | —       | 133.971 |
| Architectural Coatings | 95.2972 | 95.2972 | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Onsite truck           | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Daily, Winter (Max)    | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Average Daily          | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Off-Road Equipment     | 0.00752 | 0.00621 | 0.04554 | 0.06167 | 0.00009 | 0.00104 | —       | 0.00104 | 0.00096 | —       | 0.00096 | — | 7.31577 | 7.31577 | 0.00030 | 0.00006 | —       | 7.34087 |
| Architectural Coatings | 5.22176 | 5.22176 | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Onsite truck           | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Annual                 | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Off-Road Equipment     | 0.00137 | 0.00113 | 0.00831 | 0.01125 | 0.00002 | 0.00019 | —       | 0.00019 | 0.00018 | —       | 0.00018 | — | 1.21121 | 1.21121 | 0.00005 | 0.00001 | —       | 1.21537 |
| Architectural Coatings | 0.95297 | 0.95297 | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |
| Onsite truck           | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Offsite                | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —       | —       | —       | —       |

|                     |         |         |         |         |         |         |         |         |         |         |         |   |         |         |            |         |         |         |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|---------|---------|------------|---------|---------|---------|
| Daily, Summer (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —          | —       | —       | —       |
| Worker              | 0.00657 | 0.00594 | 0.00412 | 0.07143 | 0.00000 | 0.00000 | 0.01607 | 0.01607 | 0.00000 | 0.00377 | 0.00377 | — | 16.4875 | 16.4875 | 0.00030    | 0.00063 | 0.05607 | 16.7388 |
| Vendor              | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000    | 0.00000 | 0.00000 | 0.00000 |
| Hauling             | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000    | 0.00000 | 0.00000 | 0.00000 |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —          | —       | —       | —       |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —          | —       | —       | —       |
| Worker              | 0.00034 | 0.00030 | 0.00026 | 0.00322 | 0.00000 | 0.00000 | 0.00087 | 0.00087 | 0.00000 | 0.00020 | 0.00020 | — | 0.83563 | 0.83563 | 0.00002    | 0.00003 | 0.00133 | 0.84771 |
| Vendor              | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000    | 0.00000 | 0.00000 | 0.00000 |
| Hauling             | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000    | 0.00000 | 0.00000 | 0.00000 |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —       | —       | —          | —       | —       | —       |
| Worker              | 0.00006 | 0.00006 | 0.00005 | 0.00059 | 0.00000 | 0.00000 | 0.00016 | 0.00016 | 0.00000 | 0.00004 | 0.00004 | — | 0.13835 | 0.13835 | < 0.000005 | 0.00001 | 0.00022 | 0.14035 |
| Vendor              | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000    | 0.00000 | 0.00000 | 0.00000 |
| Hauling             | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | — | 0.00000 | 0.00000 | 0.00000    | 0.00000 | 0.00000 | 0.00000 |

## 4. Operations Emissions Details

### 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            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Sequestered         | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —                         | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

5. Activity Data

5.1. Construction Schedule

| Phase Name            | Phase Type            | Start Date | End Date  | Days Per Week | Work Days per Phase | Phase Description |
|-----------------------|-----------------------|------------|-----------|---------------|---------------------|-------------------|
| Site Preparation      | Site Preparation      | 6/1/2026   | 6/26/2026 | 5.00000       | 20.0000             | —                 |
| Grading               | Grading               | 6/29/2026  | 8/28/2026 | 5.00000       | 45.0000             | —                 |
| Building Construction | Building Construction | 8/31/2026  | 7/16/2027 | 5.00000       | 230.000             | —                 |
| Paving                | Paving                | 7/19/2027  | 8/13/2027 | 5.00000       | 20.0000             | —                 |
| Architectural Coating | Architectural Coating | 8/16/2027  | 9/10/2027 | 5.00000       | 20.0000             | —                 |

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 |
|-----------------------|----------------------------|-----------|-------------|----------------|---------------|------------|-------------|
| Site Preparation      | Rubber Tired Dozers        | Diesel    | Average     | 3.00000        | 8.00000       | 367.000    | 0.40000     |
| Site Preparation      | Tractors/Loaders/Back hoes | Diesel    | Average     | 4.00000        | 8.00000       | 84.0000    | 0.37000     |
| Grading               | Graders                    | Diesel    | Average     | 1.000000       | 8.00000       | 148.000    | 0.41000     |
| Grading               | Excavators                 | Diesel    | Average     | 2.00000        | 8.00000       | 36.0000    | 0.38000     |
| Grading               | Tractors/Loaders/Back hoes | Diesel    | Average     | 2.00000        | 8.00000       | 84.0000    | 0.37000     |
| Grading               | Scrapers                   | Diesel    | Average     | 2.00000        | 8.00000       | 423.000    | 0.48000     |
| Grading               | Rubber Tired Dozers        | Diesel    | Average     | 1.000000       | 8.00000       | 367.000    | 0.40000     |
| Building Construction | Forklifts                  | Diesel    | Average     | 3.00000        | 8.00000       | 82.0000    | 0.20000     |
| Building Construction | Generator Sets             | Diesel    | Average     | 1.000000       | 8.00000       | 14.0000    | 0.74000     |
| Building Construction | Cranes                     | Diesel    | Average     | 1.000000       | 7.00000       | 367.000    | 0.29000     |
| Building Construction | Welders                    | Diesel    | Average     | 1.000000       | 8.00000       | 46.0000    | 0.45000     |
| Building Construction | Tractors/Loaders/Back hoes | Diesel    | Average     | 3.00000        | 7.00000       | 84.0000    | 0.37000     |
| Paving                | Pavers                     | Diesel    | Average     | 2.00000        | 8.00000       | 81.0000    | 0.42000     |
| Paving                | Paving Equipment           | Diesel    | Average     | 2.00000        | 8.00000       | 89.0000    | 0.36000     |

|                       |                 |        |         |          |         |         |         |
|-----------------------|-----------------|--------|---------|----------|---------|---------|---------|
| Paving                | Rollers         | Diesel | Average | 2.00000  | 8.00000 | 36.0000 | 0.38000 |
| Architectural Coating | Air Compressors | Diesel | Average | 1.000000 | 6.00000 | 37.0000 | 0.48000 |

## 5.3. Construction Vehicles

### 5.3.1. Unmitigated

| Phase Name            | Trip Type    | One-Way Trips per Day | Miles per Trip | Vehicle Mix   |
|-----------------------|--------------|-----------------------|----------------|---------------|
| Site Preparation      | Worker       | 17.5000               | 11.7000        | LDA,LDT1,LDT2 |
| Site Preparation      | Vendor       | 2.00000               | 8.40000        | HHDT,MHDT     |
| Site Preparation      | Hauling      | 0.00000               | 20.0000        | HHDT          |
| Site Preparation      | Onsite truck | —                     | —              | HHDT          |
| Grading               | Worker       | 20.0000               | 11.7000        | LDA,LDT1,LDT2 |
| Grading               | Vendor       | —                     | 8.40000        | HHDT,MHDT     |
| Grading               | Hauling      | 10.7556               | 20.0000        | HHDT          |
| Grading               | Onsite truck | —                     | —              | HHDT          |
| Building Construction | Worker       | 9.72000               | 11.7000        | LDA,LDT1,LDT2 |
| Building Construction | Vendor       | 2.88630               | 8.40000        | HHDT,MHDT     |
| Building Construction | Hauling      | 0.00000               | 20.0000        | HHDT          |
| Building Construction | Onsite truck | —                     | —              | HHDT          |
| Paving                | Worker       | 15.0000               | 11.7000        | LDA,LDT1,LDT2 |
| Paving                | Vendor       | 20.0000               | 8.40000        | HHDT,MHDT     |
| Paving                | Hauling      | 0.00000               | 20.0000        | HHDT          |
| Paving                | Onsite truck | —                     | —              | HHDT          |
| Architectural Coating | Worker       | 1.94400               | 11.7000        | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor       | —                     | 8.40000        | HHDT,MHDT     |
| Architectural Coating | Hauling      | 0.00000               | 20.0000        | HHDT          |
| Architectural Coating | Onsite truck | —                     | —              | HHDT          |

## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

| Control Strategies Applied                      | PM10 Reduction | PM2.5 Reduction |
|-------------------------------------------------|----------------|-----------------|
| Water unpaved roads twice daily                 | 55%            | 55%             |
| Limit vehicle speeds on unpaved roads to 25 mph | 44%            | 44%             |

## 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 | 269,250                                  | 89,750.0                                 | 0.00000                                      | 0.00000                                      | 7,213.54                    |

## 5.6. Dust Mitigation

### 5.6.1. Construction Earthmoving Activities

| Phase Name       | Material Imported (cy) | Material Exported (cy) | Acres Graded (acres) | Material Demolished (sq. ft.) | Acres Paved (acres) |
|------------------|------------------------|------------------------|----------------------|-------------------------------|---------------------|
| Site Preparation | —                      | —                      | 30.0000              | 0.00000                       | 0.00000             |
| Grading          | —                      | 3,870.00               | 135.000              | 0.00000                       | 0.00000             |
| Paving           | 0.00000                | 0.00000                | 0.00000              | 0.00000                       | 1.61000             |

### 5.6.2. Construction Earthmoving Control Strategies

| Control Strategies Applied | Frequency (per day) | PM10 Reduction | PM2.5 Reduction |
|----------------------------|---------------------|----------------|-----------------|
| Water Exposed Area         | 2                   | 61%            | 61%             |

## 5.7. Construction Paving

| Phase Name | Land Use              | Area Paved (acres) | % Asphalt |
|------------|-----------------------|--------------------|-----------|
| Paving     | Single Family Housing | 0.00000            | 0%        |

|        |                            |         |      |
|--------|----------------------------|---------|------|
| Paving | Other Asphalt Surfaces     | 1.61000 | 100% |
| Paving | Other Non-Asphalt Surfaces | 0.00000 | 0%   |
| Paving | User Defined Recreational  | 0.00000 | 0%   |

### 5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

| Year | kWh per Year | CO2     | CH4     | N2O     |
|------|--------------|---------|---------|---------|
| 2026 | 0.00000      | 203.983 | 0.03300 | 0.00400 |
| 2027 | 0.00000      | 203.983 | 0.03300 | 0.00400 |

### 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. Biomass Cover Type

##### 5.18.1.1. Unmitigated

| 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) |
|-----------|--------|------------------------------|------------------------------|
|-----------|--------|------------------------------|------------------------------|

## 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 | 22.0000                     | annual days of extreme heat                |
| Extreme Precipitation        | 8.10000                     | annual days with precipitation above 20 mm |
| Sea Level Rise               | —                           | meters of inundation depth                 |
| Wildfire                     | 17.6300                     | 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 (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

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 | N/A            | N/A               | N/A                     | N/A                 |
| Extreme Precipitation        | 3              | 0                 | 0                       | 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 | N/A            | N/A               | N/A                     | N/A                 |
| Extreme Precipitation        | 3              | 1                 | 1                       | 3                   |
| 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            | 22.1904                         |
| AQ-PM               | 23.1487                         |

|                                 |         |
|---------------------------------|---------|
| AQ-DPM                          | 10.3049 |
| Drinking Water                  | 4.20882 |
| Lead Risk Housing               | 7.18336 |
| Pesticides                      | 73.5862 |
| Toxic Releases                  | 47.0993 |
| Traffic                         | 42.5875 |
| Effect Indicators               | —       |
| CleanUp Sites                   | 62.4487 |
| Groundwater                     | 0.00000 |
| Haz Waste Facilities/Generators | 44.7253 |
| Impaired Water Bodies           | 0.00000 |
| Solid Waste                     | 0.00000 |
| Sensitive Population            | —       |
| Asthma                          | 3.00349 |
| Cardio-vascular                 | 1.85693 |
| Low Birth Weights               | 34.3854 |
| Socioeconomic Factor Indicators | —       |
| Education                       | 6.94761 |
| Housing                         | 5.22180 |
| Linguistic                      | 6.26607 |
| Poverty                         | 7.82663 |
| Unemployment                    | 14.3935 |

## 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 | 98.49865264                     |

|                                              |             |
|----------------------------------------------|-------------|
| Employed                                     | 66.62389324 |
| Median HI                                    | 97.33093802 |
| Education                                    | —           |
| Bachelor's or higher                         | 91.03041191 |
| High school enrollment                       | 10.6249198  |
| Preschool enrollment                         | 85.15334274 |
| Transportation                               | —           |
| Auto Access                                  | 71.35891184 |
| Active commuting                             | 41.44745284 |
| Social                                       | —           |
| 2-parent households                          | 99.03759784 |
| Voting                                       | 97.97253946 |
| Neighborhood                                 | —           |
| Alcohol availability                         | 92.06980624 |
| Park access                                  | 12.31874759 |
| Retail density                               | 11.75413833 |
| Supermarket access                           | 12.65238034 |
| Tree canopy                                  | 91.14590017 |
| Housing                                      | —           |
| Homeownership                                | 98.99910176 |
| Housing habitability                         | 95.63711023 |
| Low-inc homeowner severe housing cost burden | 93.60964969 |
| Low-inc renter severe housing cost burden    | 63.54420634 |
| Uncrowded housing                            | 84.29359682 |
| Health Outcomes                              | —           |
| Insured adults                               | 92.01847812 |
| Arthritis                                    | 0.0         |
| Asthma ER Admissions                         | 80.4        |

|                                       |      |
|---------------------------------------|------|
| High Blood Pressure                   | 0.0  |
| Cancer (excluding skin)               | 0.0  |
| Asthma                                | 0.0  |
| Coronary Heart Disease                | 0.0  |
| Chronic Obstructive Pulmonary Disease | 0.0  |
| Diagnosed Diabetes                    | 0.0  |
| Life Expectancy at Birth              | 72.3 |
| Cognitively Disabled                  | 87.2 |
| Physically Disabled                   | 90.7 |
| Heart Attack ER Admissions            | 88.8 |
| Mental Health Not Good                | 0.0  |
| Chronic Kidney Disease                | 0.0  |
| Obesity                               | 0.0  |
| Pedestrian Injuries                   | 19.6 |
| Physical Health Not Good              | 0.0  |
| Stroke                                | 0.0  |
| Health Risk Behaviors                 | —    |
| Binge Drinking                        | 0.0  |
| Current Smoker                        | 0.0  |
| No Leisure Time for Physical Activity | 0.0  |
| Climate Change Exposures              | —    |
| Wildfire Risk                         | 0.0  |
| SLR Inundation Area                   | 0.0  |
| Children                              | 83.0 |
| Elderly                               | 6.3  |
| English Speaking                      | 90.9 |
| Foreign-born                          | 15.2 |
| Outdoor Workers                       | 89.4 |

|                                  |      |
|----------------------------------|------|
| Climate Change Adaptive Capacity | —    |
| Impervious Surface Cover         | 86.2 |
| Traffic Density                  | 38.8 |
| Traffic Access                   | 50.5 |
| Other Indices                    | —    |
| Hardship                         | 8.9  |
| Other Decision Support           | —    |
| 2016 Voting                      | 85.6 |

### 7.3. Overall Health & Equity Scores

| Metric                                                                              | Result for Project Census Tract |
|-------------------------------------------------------------------------------------|---------------------------------|
| CalEnviroScreen 4.0 Score for Project Location (a)                                  | 1.000000                        |
| Healthy Places Index Score for Project Location (b)                                 | 96.0000                         |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535)           | No                              |
| Project Located in a Low-Income Community (Assembly Bill 1550)                      | No                              |
| 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

## 8.1. Justifications

| Screen                            | Justification                                                                                                                                                                                                                        |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Land Use                          | Site Area based on parcel and inclusive of private roads and driveways. The full site is 102 acres; only 29.95 acres will be developed with 0.11 acres of off-site pavement development. The remaining 72 acres will be undisturbed. |
| Construction: Construction Phases | Construction assumed to start Summer 2026 and last 12 to 15 months. No demolition anticipated.                                                                                                                                       |
| Construction: Paving              | Based on paved areas estimated from site plans. Paved areas include offsite improvements.                                                                                                                                            |

## 8.3. Land Use

| Model Parameter | Units  | Default Value | New Value |
|-----------------|--------|---------------|-----------|
| Lot Area        | acre   | 8.76623       | 10.8100   |
| Building Area   | sq. ft | 52,650.0      | 132,963   |
| Landscape Area  | sq. ft | 316,247       | 196,630   |
| Lot Area        | acre   | 0.00000       | 16.4900   |
| Landscape Area  | sq. ft | —             | 0.00000   |

## 8.4. Construction

### 8.4.1. Construction Phases

| Phase Type            | Phase Name            | Model Parameter     | Default Value | New Value |
|-----------------------|-----------------------|---------------------|---------------|-----------|
| Site Preparation      | Site Preparation      | Start Date          | 7/14/2026     | 6/1/2026  |
| Site Preparation      | Site Preparation      | End Date            | 8/11/2026     | 6/26/2026 |
| Grading               | Grading               | Start Date          | 8/12/2026     | 6/29/2026 |
| Grading               | Grading               | End Date            | 10/14/2026    | 8/28/2026 |
| Building Construction | Building Construction | Start Date          | 10/15/2026    | 8/31/2026 |
| Building Construction | Building Construction | End Date            | 9/14/2028     | 7/16/2027 |
| Building Construction | Building Construction | Work Days per Phase | 500.000       | 230.000   |

|                       |                       |                     |            |           |
|-----------------------|-----------------------|---------------------|------------|-----------|
| Paving                | Paving                | Start Date          | 9/15/2028  | 7/19/2027 |
| Paving                | Paving                | End Date            | 11/3/2028  | 8/13/2027 |
| Paving                | Paving                | Work Days per Phase | 35.0000    | 20.0000   |
| Architectural Coating | Architectural Coating | Start Date          | 11/4/2028  | 8/16/2027 |
| Architectural Coating | Architectural Coating | End Date            | 12/23/2028 | 9/10/2027 |
| Architectural Coating | Architectural Coating | Work Days per Phase | 35.0000    | 20.0000   |

8.4.9. Paving

| Phase Name | Land Use                   | Model Parameter | Units | Default Value | New Value |
|------------|----------------------------|-----------------|-------|---------------|-----------|
| Paving     | Single Family Housing      | Area Paved      | acres | 0.29752       | 0.00000   |
| Paving     | Other Non-Asphalt Surfaces | Area Paved      | acres | 1.15000       | 0.00000   |

# Martin Hills Ranch Residential Project

## AERMOD DPM Sources

| Source Release Parameters (m) |                                                       |                                  |             |          |        |                |                           |                            |                                |                             |          |
|-------------------------------|-------------------------------------------------------|----------------------------------|-------------|----------|--------|----------------|---------------------------|----------------------------|--------------------------------|-----------------------------|----------|
| Source ID                     | Modeled Source                                        | Location Description             | Source Type | Size     |        | Release Height | Initial Lateral Dimension | Initial Vertical Dimension | Emissions <sup>4</sup> (lb/hr) | AERMOD Source Emission Rate |          |
| SITE_DPM                      | Site - Off-Road Equipment Diesel Exhaust <sup>1</sup> | Project Site - Construction Area | Area        | 124428.3 | m2     | 5              | —                         | 1.4                        | 0.0634                         | 6.4E-08                     | g/m2-sec |
| ROAD1_DPM                     | Haul Road - On-Road Diesel Exhaust <sup>2,3</sup>     | Truck Route - Como Way           | Line-Volume | 223      | meters | 3.40           | 6.51                      | 3.16                       | 1.26E-06                       | 1.6E-07                     | g/s      |
| ROAD2_DPM                     | Haul Road - On-Road Diesel Exhaust <sup>2,4</sup>     | Truck Route - El Capitan Drive   | Line-Volume | 478.7    | meters | 3.40           | 6.51                      | 3.16                       | 2.70E-06                       | 3.4E-07                     | g/s      |
| ROAD3_DPM                     | Haul Road - On-Road Diesel Exhaust <sup>2,5</sup>     | Truck Route - Borica Drive       | Line-Volume | 759.3    | meters | 3.40           | 6.51                      | 3.16                       | 4.29E-06                       | 5.4E-07                     | g/s      |

| Variable Emission Factors: ALL Sources                                                                                                                                                              |                        |       |   |   |   |   |   |   |   |   |   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------|---|---|---|---|---|---|---|---|---|
| <sup>1</sup> Construction exhaust modeled as an area source. Release parameters for construction equipment DPM exhaust modeling from SCAQMD (2008) for gaseous exhaust from construction equipment. | <b>Monday - Friday</b> | 1-6   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                                                                                                                                                                                     |                        | 7-12  | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|                                                                                                                                                                                                     |                        | 13-18 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |
|                                                                                                                                                                                                     |                        | 19-24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <sup>2</sup> Emissions for On-Road Mobile Sources (Vendor and Haul Diesel Exhaust) modeled only for roadways within 1,000 feet of the site within the modeling domain.                              | <b>Saturday</b>        | 1-6   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                                                                                                                                                                                     |                        | 7-12  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                                                                                                                                                                                     |                        | 13-18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                                                                                                                                                                                     |                        | 19-24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <sup>3</sup> Parameters calculated as per US EPA Haul Road Workgroup Final Report released on March 2, 2012 which suggests the use of Adjacent Volume Sources to represent the haul road.           | <b>Sunday</b>          | 1-6   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                                                                                                                                                                                     |                        | 7-12  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                                                                                                                                                                                     |                        | 13-18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                                                                                                                                                                                     |                        | 19-24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <sup>4</sup> Emissions from CalEEModeling for Construction modeled during construction hours as included in Attachment A. See Note 2 above regarding roadway emission portion modeled.              | <b>Sunday</b>          | 1-6   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                                                                                                                                                                                     |                        | 7-12  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                                                                                                                                                                                     |                        | 13-18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                                                                                                                                                                                     |                        | 19-24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

# Martin Hills Ranch Residential Project

## AERMOD PM2.5 Sources

| Source Release Parameters (m) |                                              |                                  |             |          |        |                |                           |                            |                                |                             |          |
|-------------------------------|----------------------------------------------|----------------------------------|-------------|----------|--------|----------------|---------------------------|----------------------------|--------------------------------|-----------------------------|----------|
| Source ID                     | Modeled Source                               | Location Description             | Source Type | Size     |        | Release Height | Initial Lateral Dimension | Initial Vertical Dimension | Emissions <sup>4</sup> (lb/hr) | AERMOD Source Emission Rate |          |
| SITE_PM2.5                    | Site - Off-Road Equipment PM2.5 <sup>1</sup> | Project Site - Construction Area | Area        | 124428.3 | m2     | 5              | —                         | 1.4                        | 0.133                          | 1.34E-07                    | g/m2-sec |
| ROAD1_PM25                    | Haul Road - On-Road PM2.5 <sup>2,3</sup>     | Truck Route - Como Way           | Line-Volume | 223      | meters | 3.40           | 6.51                      | 3.16                       | 5.48E-05                       | 6.90E-06                    | g/s      |
| ROAD2_PM25                    | Haul Road - On-Road PM2.5 <sup>2,4</sup>     | Truck Route - El Capitan Drive   | Line-Volume | 478.7    | meters | 3.40           | 6.51                      | 3.16                       | 1.18E-04                       | 1.48E-05                    | g/s      |
| ROAD3_PM25                    | Haul Road - On-Road PM2.5 <sup>2,5</sup>     | Truck Route - Borica Drive       | Line-Volume | 759.3    | meters | 3.40           | 6.51                      | 3.16                       | 1.87E-04                       | 2.35E-05                    | g/s      |

1 Construction exhaust modeled as an area source. Release parameters for construction equipment DPM exhaust modeling from SCAQMD (2008) for gaseous exhaust from construction equipment.

2 Emissions for On-Road Mobile Sources (Vendor and Haul Diesel Exhaust) modeled only for roadways within 1,000 feet of the site within the modeling domain.

3 Parameters calculated as per US EPA Haul Road Workgroup Final Report released on March 2, 2012 which suggests the use of Adjacent Volume Sources to represent the haul road.

4 Emissions from CalEEModeling for Construction modeled during construction hours as included in Attachment A. See Note 2 above regarding roadway emission portion modeled.

5 Construction exhaust modeled as an area source. Modeled as per BAAQMD 2022 CEQA Guidelines which permits PM2.5 Dust to be modeled along with PM2.5Exhaust.

Variable Emission Factors: ALL Sources

**Monday - Friday**

|       |   |   |   |   |   |   |
|-------|---|---|---|---|---|---|
| 1-6   | 0 | 0 | 0 | 0 | 0 | 0 |
| 7-12  | 0 | 0 | 1 | 1 | 1 | 1 |
| 13-18 | 0 | 1 | 1 | 1 | 1 | 0 |
| 19-24 | 0 | 0 | 0 | 0 | 0 | 0 |

**Saturday**

|       |   |   |   |   |   |   |
|-------|---|---|---|---|---|---|
| 1-6   | 0 | 0 | 0 | 0 | 0 | 0 |
| 7-12  | 0 | 0 | 0 | 0 | 0 | 0 |
| 13-18 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19-24 | 0 | 0 | 0 | 0 | 0 | 0 |

**Sunday**

|       |   |   |   |   |   |   |
|-------|---|---|---|---|---|---|
| 1-6   | 0 | 0 | 0 | 0 | 0 | 0 |
| 7-12  | 0 | 0 | 0 | 0 | 0 | 0 |
| 13-18 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19-24 | 0 | 0 | 0 | 0 | 0 | 0 |

# Martin Hills Ranch Residential Project

## DPM Emissions - Unmitigated

|                        |       |
|------------------------|-------|
| Net Work Days          | 320   |
| Net Construction Years | 1.28  |
| Total Working Hours    | 2,560 |

| Construction Year                 | Construction Activity | On-site DPM<br>(lbs) | Off-Site DPM<br>(lbs) | Off-Site DPM(lbs) |        |      |
|-----------------------------------|-----------------------|----------------------|-----------------------|-------------------|--------|------|
|                                   |                       |                      |                       | Worker            | Vendor | Haul |
| 2026                              | Site Preparation      | 24.85                | 0.01                  | -                 | 0.01   | -    |
| 2026                              | Grading               | 50.46                | 0.64                  | -                 | -      | 0.64 |
| 2026                              | Building Construction | 33.27                | 0.09                  | -                 | 0.09   | -    |
| 2027                              | Building Construction | 47.36                | 0.15                  | -                 | 0.15   | -    |
| 2027                              | Paving                | 5.96                 | 0.15                  | -                 | 0.15   | -    |
| 2027                              | Architectural Coating | 0.38                 | 0.00                  | -                 | -      | -    |
| <b>Total PM Exhaust (On-site)</b> |                       | <b>162.28</b>        | <b>1.05</b>           | -                 | 0.20   | -    |

**Note:** PM10E = PM10 Exhaust which is a surrogate for Diesel Exhaust, particulate matter

|                                   | Worker | Vendor | Haul |
|-----------------------------------|--------|--------|------|
| CalEEMod Distance (miles)         | 11.7   | 8.4    | 20   |
| Roadways Included within 1,000 ft | 0.91   | 0.91   | 0.91 |
| Roadway Emissions included        | 8%     | 11%    | 5%   |

|                         | On-site<br>Construction<br>DPM | Off-site<br>Roadway<br>DPM | Off-Site Diesel PM (lbs)<br>within 1,000 ft Roadways |        |      |
|-------------------------|--------------------------------|----------------------------|------------------------------------------------------|--------|------|
|                         |                                |                            | Worker                                               | Vendor | Haul |
| Modeled Emissions (lbs) | <b>162.28</b>                  | <b>0.021</b>               | -                                                    | 0.02   | -    |

| Source              | acres/miles | % of Source |        |          |                |
|---------------------|-------------|-------------|--------|----------|----------------|
|                     |             | Type        | lbs    | lb/hr    | g/s ; g/m2-sec |
| Site Emissions      | 30.75       | 100%        | 162.28 | 0.063    | 6.42E-08       |
| Roadway 1 Emissions | 0.14        | 15%         | 0.003  | 1.26E-06 | 1.59E-07       |
| Roadway 2 Emissions | 0.30        | 33%         | 0.007  | 2.70E-06 | 3.41E-07       |
| Roadway 3 Emissions | 0.47        | 52%         | 0.011  | 4.29E-06 | 5.40E-07       |

# Martin Hills Ranch Residential Project

## PM2.5 Emissions - Unmitigated

|                        |       |
|------------------------|-------|
| Net Work Days          | 260   |
| Net Construction Years | 1.00  |
| Total Working Hours    | 2,080 |

| Construction Year* | Construction Activity | % Included in | On-site<br>PM2.5T<br>(lbs) | Off-Site PM2.5T<br>(lbs) | Off-Site PM2.5T (lbs) |        |      |
|--------------------|-----------------------|---------------|----------------------------|--------------------------|-----------------------|--------|------|
|                    |                       | Max Year      |                            |                          | Worker                | Vendor | Haul |
| 2026               | Site Preparation      | 100%          | 101.66                     | 0.76                     | 0.67                  | 0.09   | -    |
| 2026               | Grading               | 100%          | 110.56                     | 4.59                     | 1.72                  | -      | 2.86 |
| 2026               | Building Construction | 100%          | 30.61                      | 2.22                     | 1.64                  | 0.58   | -    |
| 2027               | Building Construction | 76%           | 43.57                      | 3.55                     | 2.62                  | 0.93   | -    |
| 2027               | Paving                | 0%            | 5.49                       | 1.49                     | 0.57                  | 0.92   | -    |
| 2027               | Architectural Coating | 0%            | 0.35                       | 0.07                     | 0.07                  | -      | -    |
| Total PM2.5        |                       |               | 292.24                     | 12.69                    | 7.30                  | 2.53   | 2.86 |
| Max Year PM2.5     |                       |               | 275.90                     | 10.27                    | 6.02                  | 1.38   | 2.86 |

Note: PM2.5T = PM2.5 Total including PM2.5 Exhaust (on and off-road), Fugitive Dust from Demolition, Site Preparation and Grading, as well as brake wear, tire wear and re-entrained road dust.

\*PM2.5 Emissions are modeled for the maximum annual emissions which is June 1, 2026 - May 31, 2027 and includes 76% of Bldg Construction Days in 2027.

|                                   | Worker | Vendor | Haul |
|-----------------------------------|--------|--------|------|
| CalEEMod Distance (miles)         | 11.7   | 8.4    | 20   |
| Roadways Included within 1,000 ft | 0.91   | 0.91   | 0.91 |
| Roadway Emissions included        | 8%     | 11%    | 5%   |

|                         | On-site<br>Construction<br>PM2.5T | Off-site<br>Roadway<br>PM2.5T | Off-Site PM2.5 (lbs)<br>within 1,000 ft Roadways |        |        |
|-------------------------|-----------------------------------|-------------------------------|--------------------------------------------------|--------|--------|
|                         |                                   |                               | Haul                                             | Vendor | Worker |
| Modeled Emissions (lbs) | 275.90                            | 0.746                         | 0.47                                             | 0.15   | 0.13   |

| % of Source         |             |      |        |          |                |
|---------------------|-------------|------|--------|----------|----------------|
| Source              | acres/miles | Type | lbs    | lb/hr    | g/s ; g/m2-sec |
| Site Emissions      | 30.75       | 100% | 275.90 | 0.133    | 1.34E-07       |
| Roadway 1 Emissions | 0.14        | 15%  | 0.114  | 5.48E-05 | 6.90E-06       |
| Roadway 1 Emissions | 0.30        | 33%  | 0.245  | 1.18E-04 | 1.48E-05       |
| Roadway 2 Emissions | 0.47        | 52%  | 0.388  | 1.87E-04 | 2.35E-05       |

## Dispersion Options

|                                                                                                                                  |                                                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Titles</b><br>Martin Hills Ranch Residential Project<br>Construction HRA                                                      |                                                                                                                                                                                                                        |
| <b>Dispersion Options</b><br><input checked="" type="checkbox"/> Regulatory Default <input type="checkbox"/> Non-Default Options | <b>Dispersion Coefficient</b><br>Urban      Population:<br>Name (Optional):<br>Roughness Length:                                                                                                                       |
|                                                                                                                                  | <b>Output Type</b><br><input checked="" type="checkbox"/> Concentration<br><input type="checkbox"/> Total Deposition (Dry & Wet)<br><input type="checkbox"/> Dry Deposition<br><input type="checkbox"/> Wet Deposition |
|                                                                                                                                  | <b>Plume Depletion</b><br><input type="checkbox"/> Dry Removal<br><input type="checkbox"/> Wet Removal                                                                                                                 |
|                                                                                                                                  | <b>Output Warnings</b><br><input type="checkbox"/> No Output Warnings<br><input type="checkbox"/> Non-fatal Warnings for Non-sequential Met Data                                                                       |

## Pollutant / Averaging Time / Terrain Options

|                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Pollutant Type</b><br>PM10                                                                                                                                                                                                                                                                                                                                                 | <b>Exponential Decay</b><br>Half-life of Air will be used                                                                                               |
| <b>Averaging Time Options</b><br>Hours <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 6 <input type="checkbox"/> 8 <input type="checkbox"/> 12 <input type="checkbox"/> 24<br><input type="checkbox"/> Month <input checked="" type="checkbox"/> Period <input type="checkbox"/> Annual | <b>Terrain Height Options</b><br><input type="checkbox"/> Flat <input checked="" type="checkbox"/> Elevated      SO: Meters<br>RE: Meters<br>TG: Meters |
| <b>Flagpole Receptors</b><br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Default Height = 0.00 m                                                                                                                                                                                                                                                   |                                                                                                                                                         |

## Optional Files



Re-Start File



Init File



Multi-Year Analyses



Event Input File



Error Listing File

### Detailed Error Listing File

Filename: ConHRA.err

# Source Path

# Source Inputs

AERMOD

## Source Pathw

## Source Inputs

**AERMOD**

## Polygon Area Sources

**Source Type:** AREA POLY

**Source:** SITE DPMUM (Site#

[illegible]

UM)

| Emission Rate<br>[g/ (s·m^2)] | Initial Vertical Dim. [m] | Number of Vertices (or sides) | X Coordinate for Vertices [m] | Y Coordinate for Vertices [m] |
|-------------------------------|---------------------------|-------------------------------|-------------------------------|-------------------------------|
| 6.42E-8                       | 1.40                      | 101                           | 591571.34                     | 4184217.83                    |
| 6.42E-8                       |                           |                               | 591637.85                     | 4184177.92                    |
| 6.42E-8                       |                           |                               | 591659.14                     | 4184207.18                    |
| 6.42E-8                       |                           |                               | 591693.06                     | 4184185.90                    |
| 6.42E-8                       |                           |                               | 591720.33                     | 4184177.92                    |
| 6.42E-8                       |                           |                               | 591753.59                     | 4184168.60                    |
| 6.42E-8                       |                           |                               | 591760.24                     | 4184165.28                    |
| 6.42E-8                       |                           |                               | 591778.87                     | 4184143.99                    |
| 6.42E-8                       |                           |                               | 591798.82                     | 4184124.70                    |
| 6.42E-8                       |                           |                               | 591824.76                     | 4184102.09                    |
| 6.42E-8                       |                           |                               | 591841.39                     | 4184079.47                    |
| 6.42E-8                       |                           |                               | 591861.35                     | 4184058.19                    |
| 6.42E-8                       |                           |                               | 591882.63                     | 4184040.89                    |
| 6.42E-8                       |                           |                               | 591903.25                     | 4184024.93                    |
| 6.42E-8                       |                           |                               | 591916.55                     | 4184009.63                    |
| 6.42E-8                       |                           |                               | 591923.20                     | 4183995.66                    |
| 6.42E-8                       |                           |                               | 591926.53                     | 4183977.04                    |
| 6.42E-8                       |                           |                               | 591925.87                     | 4183959.75                    |
| 6.42E-8                       |                           |                               | 591923.20                     | 4183945.78                    |
| 6.42E-8                       |                           |                               | 591920.54                     | 4183935.80                    |
| 6.42E-8                       |                           |                               | 591903.25                     | 4183927.82                    |
| 6.42E-8                       |                           |                               | 591899.92                     | 4183920.50                    |
| 6.42E-8                       |                           |                               | 591896.60                     | 4183910.52                    |
| 6.42E-8                       |                           |                               | 591892.61                     | 4183903.21                    |
| 6.42E-8                       |                           |                               | 591884.63                     | 4183902.54                    |
| 6.42E-8                       |                           |                               | 591871.99                     | 4183899.22                    |
| 6.42E-8                       |                           |                               | 591868.00                     | 4183891.90                    |
| 6.42E-8                       |                           |                               | 591861.35                     | 4183886.58                    |
| 6.42E-8                       |                           |                               | 591847.38                     | 4183878.60                    |
| 6.42E-8                       |                           |                               | 591836.73                     | 4183881.26                    |

## Source Pathway

**Source Type:** AREA POLY

**Source:** SITE\_DPMUM (Site#

[illegible]

## Source Inputs

**AERMOD**

\_UM)

| Emission Rate<br>[g/ (s·m^2)] | Initial Vertical Dim. [m] | Number of Vertices (or sides) | X Coordinate for Vertices [m] | Y Coordinate for Vertices [m] |
|-------------------------------|---------------------------|-------------------------------|-------------------------------|-------------------------------|
| 6.42E-8                       |                           |                               | 591832.08                     | 4183909.86                    |
| 6.42E-8                       |                           |                               | 591824.10                     | 4183916.51                    |
| 6.42E-8                       |                           |                               | 591786.85                     | 4183929.81                    |
| 6.42E-8                       |                           |                               | 591699.05                     | 4183933.14                    |
| 6.42E-8                       |                           |                               | 591632.53                     | 4183901.21                    |
| 6.42E-8                       |                           |                               | 591624.55                     | 4183890.57                    |
| 6.42E-8                       |                           |                               | 591621.89                     | 4183879.93                    |
| 6.42E-8                       |                           |                               | 591619.23                     | 4183854.65                    |
| 6.42E-8                       |                           |                               | 591613.79                     | 4183835.67                    |
| 6.42E-8                       |                           |                               | 591610.11                     | 4183812.65                    |
| 6.42E-8                       |                           |                               | 591611.95                     | 4183786.87                    |
| 6.42E-8                       |                           |                               | 591613.79                     | 4183762.01                    |
| 6.42E-8                       |                           |                               | 591621.16                     | 4183747.28                    |
| 6.42E-8                       |                           |                               | 591622.08                     | 4183730.71                    |
| 6.42E-8                       |                           |                               | 591623.00                     | 4183713.22                    |
| 6.42E-8                       |                           |                               | 591596.30                     | 4183721.50                    |
| 6.42E-8                       |                           |                               | 591576.97                     | 4183721.50                    |
| 6.42E-8                       |                           |                               | 591557.63                     | 4183714.14                    |
| 6.42E-8                       |                           |                               | 591542.90                     | 4183698.48                    |
| 6.42E-8                       |                           |                               | 591530.01                     | 4183672.71                    |
| 6.42E-8                       |                           |                               | 591520.80                     | 4183648.77                    |
| 6.42E-8                       |                           |                               | 591515.28                     | 4183631.27                    |
| 6.42E-8                       |                           |                               | 591476.44                     | 4183592.24                    |
| 6.42E-8                       |                           |                               | 591472.53                     | 4183582.07                    |
| 6.42E-8                       |                           |                               | 591462.35                     | 4183575.81                    |
| 6.42E-8                       |                           |                               | 591440.44                     | 4183577.37                    |
| 6.42E-8                       |                           |                               | 591424.78                     | 4183586.76                    |
| 6.42E-8                       |                           |                               | 591414.61                     | 4183589.11                    |
| 6.42E-8                       |                           |                               | 591403.65                     | 4183587.55                    |
| 6.42E-8                       |                           |                               | 591403.65                     | 4183526.50                    |
| 6.42E-8                       |                           |                               | 591496.01                     | 4183530.41                    |

## Source Pathway

**Source Type:** AREA POLY

**Source:** SITE\_DPMUM (Site#

[illegible]

## Source Inputs

**AERMOD**

UM)

| Emission Rate<br>[g/ (s·m^2)] | Initial Vertical Dim. [m] | Number of Vertices (or sides) | X Coordinate for Vertices [m] | Y Coordinate for Vertices [m] |
|-------------------------------|---------------------------|-------------------------------|-------------------------------|-------------------------------|
| 6.42E-8                       | 1.40                      | 101                           | 591498.35                     | 4183553.11                    |
| 6.42E-8                       |                           |                               | 591835.67                     | 4183567.20                    |
| 6.42E-8                       |                           |                               | 591838.80                     | 4183573.46                    |
| 6.42E-8                       |                           |                               | 591856.81                     | 4183579.72                    |
| 6.42E-8                       |                           |                               | 591868.55                     | 4183593.81                    |
| 6.42E-8                       |                           |                               | 591877.94                     | 4183607.11                    |
| 6.42E-8                       |                           |                               | 591879.50                     | 4183621.20                    |
| 6.42E-8                       |                           |                               | 591881.85                     | 4183638.42                    |
| 6.42E-8                       |                           |                               | 591881.85                     | 4183659.55                    |
| 6.42E-8                       |                           |                               | 591878.72                     | 4183672.07                    |
| 6.42E-8                       |                           |                               | 591881.85                     | 4183679.90                    |
| 6.42E-8                       |                           |                               | 591888.11                     | 4183686.16                    |
| 6.42E-8                       |                           |                               | 591884.98                     | 4183692.42                    |
| 6.42E-8                       |                           |                               | 591884.98                     | 4183704.94                    |
| 6.42E-8                       |                           |                               | 591875.59                     | 4183716.68                    |
| 6.42E-8                       |                           |                               | 591874.02                     | 4183722.95                    |
| 6.42E-8                       |                           |                               | 591878.72                     | 4183740.95                    |
| 6.42E-8                       |                           |                               | 591892.81                     | 4183780.08                    |
| 6.42E-8                       |                           |                               | 591892.02                     | 4183795.73                    |
| 6.42E-8                       |                           |                               | 591888.11                     | 4183809.04                    |
| 6.42E-8                       |                           |                               | 591888.11                     | 4183852.86                    |
| 6.42E-8                       |                           |                               | 591872.46                     | 4183864.60                    |
| 6.42E-8                       |                           |                               | 591877.94                     | 4183876.34                    |
| 6.42E-8                       |                           |                               | 591903.76                     | 4183896.69                    |
| 6.42E-8                       |                           |                               | 591924.90                     | 4183924.09                    |
| 6.42E-8                       |                           |                               | 591935.07                     | 4183971.04                    |
| 6.42E-8                       |                           |                               | 591932.72                     | 4183992.18                    |
| 6.42E-8                       |                           |                               | 591921.17                     | 4184020.64                    |
| 6.42E-8                       |                           |                               | 591912.88                     | 4184029.85                    |
| 6.42E-8                       |                           |                               | 591907.36                     | 4184030.77                    |
| 6.42E-8                       |                           |                               | 591876.97                     | 4184056.55                    |

# Source Path

Source Type: AREA POLY  
Source: SITE\_DPMUM (Site#

| Base Elevation (Optional) | R H |
|---------------------------|-----|
| 200.19                    |     |
|                           |     |
|                           |     |
|                           |     |
|                           |     |
|                           |     |
|                           |     |
|                           |     |
|                           |     |

# Source Inputs

AERMOD

\_UM)

| Emission Rate [g/ (s-m^2)] | Initial Vertical Dim. [m] | Number of Vertices (or sides) | X Coordinate for Vertices [m] | Y Coordinate for Vertices [m] |
|----------------------------|---------------------------|-------------------------------|-------------------------------|-------------------------------|
| 6.42E-8                    | 1.40                      | 101                           | 591810.67                     | 4184128.38                    |
| 6.42E-8                    |                           |                               | 591765.55                     | 4184173.50                    |
| 6.42E-8                    |                           |                               | 591753.58                     | 4184179.94                    |
| 6.42E-8                    |                           |                               | 591709.38                     | 4184191.91                    |
| 6.42E-8                    |                           |                               | 591665.19                     | 4184216.77                    |
| 6.42E-8                    |                           |                               | 591631.12                     | 4184244.40                    |
| 6.42E-8                    |                           |                               | 591609.94                     | 4184259.13                    |
| 6.42E-8                    |                           |                               | 591585.08                     | 4184270.18                    |
| 6.42E-8                    |                           |                               | 591574.95                     | 4184270.18                    |

## Source Pathway

**Source Type:** AREA POLY

**Source:** SITE PM2.5UM (Site

[illegible]

## Source Inputs

**AERMOD**

2.5UM)

| Emission Rate<br>[g/ (s·m <sup>2</sup> )] | Initial Vertical Dim. [m] | Number of Vertices<br>(or sides) | X Coordinate for Vertices<br>[m] | Y Coordinate for Vertices<br>[m] |
|-------------------------------------------|---------------------------|----------------------------------|----------------------------------|----------------------------------|
| 1.34E-7                                   | 1.40                      | 101                              | 591571.34                        | 4184217.83                       |
| 1.34E-7                                   |                           |                                  | 591637.85                        | 4184177.92                       |
| 1.34E-7                                   |                           |                                  | 591659.14                        | 4184207.18                       |
| 1.34E-7                                   |                           |                                  | 591693.06                        | 4184185.90                       |
| 1.34E-7                                   |                           |                                  | 591720.33                        | 4184177.92                       |
| 1.34E-7                                   |                           |                                  | 591753.59                        | 4184168.60                       |
| 1.34E-7                                   |                           |                                  | 591760.24                        | 4184165.28                       |
| 1.34E-7                                   |                           |                                  | 591778.87                        | 4184143.99                       |
| 1.34E-7                                   |                           |                                  | 591798.82                        | 4184124.70                       |
| 1.34E-7                                   |                           |                                  | 591824.76                        | 4184102.09                       |
| 1.34E-7                                   |                           |                                  | 591841.39                        | 4184079.47                       |
| 1.34E-7                                   |                           |                                  | 591861.35                        | 4184058.19                       |
| 1.34E-7                                   |                           |                                  | 591882.63                        | 4184040.89                       |
| 1.34E-7                                   |                           |                                  | 591903.25                        | 4184024.93                       |
| 1.34E-7                                   |                           |                                  | 591916.55                        | 4184009.63                       |
| 1.34E-7                                   |                           |                                  | 591923.20                        | 4183995.66                       |
| 1.34E-7                                   |                           |                                  | 591926.53                        | 4183977.04                       |
| 1.34E-7                                   |                           |                                  | 591925.87                        | 4183959.75                       |
| 1.34E-7                                   |                           |                                  | 591923.20                        | 4183945.78                       |
| 1.34E-7                                   |                           |                                  | 591920.54                        | 4183935.80                       |
| 1.34E-7                                   |                           |                                  | 591903.25                        | 4183927.82                       |
| 1.34E-7                                   |                           |                                  | 591899.92                        | 4183920.50                       |
| 1.34E-7                                   |                           |                                  | 591896.60                        | 4183910.52                       |
| 1.34E-7                                   |                           |                                  | 591892.61                        | 4183903.21                       |
| 1.34E-7                                   |                           |                                  | 591884.63                        | 4183902.54                       |
| 1.34E-7                                   |                           |                                  | 591871.99                        | 4183899.22                       |
| 1.34E-7                                   |                           |                                  | 591868.00                        | 4183891.90                       |
| 1.34E-7                                   |                           |                                  | 591861.35                        | 4183886.58                       |
| 1.34E-7                                   |                           |                                  | 591847.38                        | 4183878.60                       |
| 1.34E-7                                   |                           |                                  | 591836.73                        | 4183881.26                       |
| 1.34E-7                                   |                           |                                  | 591832.08                        | 4183909.86                       |

## Source Pathway

**Source Type:** AREA POLY

**Source:** SITE PM2.5UM (Site

[illegible]

## Source Inputs

**AERMOD**

2.5UM)

| Emission Rate<br>[g/ (s·m^2)] | Initial Vertical Dim. [m] | Number of Vertices (or sides) | X Coordinate for Vertices [m] | Y Coordinate for Vertices [m] |
|-------------------------------|---------------------------|-------------------------------|-------------------------------|-------------------------------|
| 1.34E-7                       | 1.40                      | 101                           | 591824.10                     | 4183916.51                    |
| 1.34E-7                       |                           |                               | 591786.85                     | 4183929.81                    |
| 1.34E-7                       |                           |                               | 591699.05                     | 4183933.14                    |
| 1.34E-7                       |                           |                               | 591632.53                     | 4183901.21                    |
| 1.34E-7                       |                           |                               | 591624.55                     | 4183890.57                    |
| 1.34E-7                       |                           |                               | 591621.89                     | 4183879.93                    |
| 1.34E-7                       |                           |                               | 591619.23                     | 4183854.65                    |
| 1.34E-7                       |                           |                               | 591613.79                     | 4183835.67                    |
| 1.34E-7                       |                           |                               | 591610.11                     | 4183812.65                    |
| 1.34E-7                       |                           |                               | 591611.95                     | 4183786.87                    |
| 1.34E-7                       |                           |                               | 591613.79                     | 4183762.01                    |
| 1.34E-7                       |                           |                               | 591621.16                     | 4183747.28                    |
| 1.34E-7                       |                           |                               | 591622.08                     | 4183730.71                    |
| 1.34E-7                       |                           |                               | 591623.00                     | 4183713.22                    |
| 1.34E-7                       |                           |                               | 591596.30                     | 4183721.50                    |
| 1.34E-7                       |                           |                               | 591576.97                     | 4183721.50                    |
| 1.34E-7                       |                           |                               | 591557.63                     | 4183714.14                    |
| 1.34E-7                       |                           |                               | 591542.90                     | 4183698.48                    |
| 1.34E-7                       |                           |                               | 591530.01                     | 4183672.71                    |
| 1.34E-7                       |                           |                               | 591520.80                     | 4183648.77                    |
| 1.34E-7                       |                           |                               | 591515.28                     | 4183631.27                    |
| 1.34E-7                       |                           |                               | 591476.44                     | 4183592.24                    |
| 1.34E-7                       |                           |                               | 591472.53                     | 4183582.07                    |
| 1.34E-7                       |                           |                               | 591462.35                     | 4183575.81                    |
| 1.34E-7                       |                           |                               | 591440.44                     | 4183577.37                    |
| 1.34E-7                       |                           |                               | 591424.78                     | 4183586.76                    |
| 1.34E-7                       |                           |                               | 591414.61                     | 4183589.11                    |
| 1.34E-7                       |                           |                               | 591403.65                     | 4183587.55                    |
| 1.34E-7                       |                           |                               | 591403.65                     | 4183526.50                    |
| 1.34E-7                       |                           |                               | 591496.01                     | 4183530.41                    |
| 1.34E-7                       |                           |                               | 591498.35                     | 4183553.11                    |

## Source Pathway

Source Type: AREA POLY

**Source:** SITE PM2.5UM (Site

[illegible]

## Source Inputs

**AERMOD**

2.5UM)

| Emission Rate<br>[g/ (s·m <sup>2</sup> )] | Initial Vertical Dim. [m] | Number of Vertices<br>(or sides) | X Coordinate for Vertices<br>[m] | Y Coordinate for Vertices<br>[m] |
|-------------------------------------------|---------------------------|----------------------------------|----------------------------------|----------------------------------|
| 1.34E-7                                   | 1.40                      | 101                              | 591835.67                        | 4183567.20                       |
| 1.34E-7                                   |                           |                                  | 591838.80                        | 4183573.46                       |
| 1.34E-7                                   |                           |                                  | 591856.81                        | 4183579.72                       |
| 1.34E-7                                   |                           |                                  | 591868.55                        | 4183593.81                       |
| 1.34E-7                                   |                           |                                  | 591877.94                        | 4183607.11                       |
| 1.34E-7                                   |                           |                                  | 591879.50                        | 4183621.20                       |
| 1.34E-7                                   |                           |                                  | 591881.85                        | 4183638.42                       |
| 1.34E-7                                   |                           |                                  | 591881.85                        | 4183659.55                       |
| 1.34E-7                                   |                           |                                  | 591878.72                        | 4183672.07                       |
| 1.34E-7                                   |                           |                                  | 591881.85                        | 4183679.90                       |
| 1.34E-7                                   |                           |                                  | 591888.11                        | 4183686.16                       |
| 1.34E-7                                   |                           |                                  | 591884.98                        | 4183692.42                       |
| 1.34E-7                                   |                           |                                  | 591884.98                        | 4183704.94                       |
| 1.34E-7                                   |                           |                                  | 591875.59                        | 4183716.68                       |
| 1.34E-7                                   |                           |                                  | 591874.02                        | 4183722.95                       |
| 1.34E-7                                   |                           |                                  | 591878.72                        | 4183740.95                       |
| 1.34E-7                                   |                           |                                  | 591892.81                        | 4183780.08                       |
| 1.34E-7                                   |                           |                                  | 591892.02                        | 4183795.73                       |
| 1.34E-7                                   |                           |                                  | 591888.11                        | 4183809.04                       |
| 1.34E-7                                   |                           |                                  | 591888.11                        | 4183852.86                       |
| 1.34E-7                                   |                           |                                  | 591872.46                        | 4183864.60                       |
| 1.34E-7                                   |                           |                                  | 591877.94                        | 4183876.34                       |
| 1.34E-7                                   |                           |                                  | 591903.76                        | 4183896.69                       |
| 1.34E-7                                   |                           |                                  | 591924.90                        | 4183924.09                       |
| 1.34E-7                                   |                           |                                  | 591935.07                        | 4183971.04                       |
| 1.34E-7                                   |                           |                                  | 591932.72                        | 4183992.18                       |
| 1.34E-7                                   |                           |                                  | 591921.17                        | 4184020.64                       |
| 1.34E-7                                   |                           |                                  | 591912.88                        | 4184029.85                       |
| 1.34E-7                                   |                           |                                  | 591907.36                        | 4184030.77                       |
| 1.34E-7                                   |                           |                                  | 591876.97                        | 4184056.55                       |
| 1.34E-7                                   |                           |                                  | 591810.67                        | 4184128.38                       |

## Source Path

**Source Type:** AREA POLY

**Source:** SITE\_PM2.5UM (Site

| Base<br>Elevation<br>(Optional) | R<br>H |
|---------------------------------|--------|
| 200.19                          |        |
|                                 |        |
|                                 |        |
|                                 |        |
|                                 |        |
|                                 |        |
|                                 |        |
|                                 |        |

## Source Inputs

AERMOD

2.5UM)

| Emission<br>Rate<br>[g/ (s-m^2)] | Initial<br>Vertical<br>Dim. [m] | Number of<br>Vertices<br>(or sides) | X Coordinate<br>for Vertices<br>[m] | Y Coordinate<br>for Vertices<br>[m] |
|----------------------------------|---------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 1.34E-7                          | 1.40                            | 101                                 | 591765.55                           | 4184173.50                          |
| 1.34E-7                          |                                 |                                     | 591753.58                           | 4184179.94                          |
| 1.34E-7                          |                                 |                                     | 591709.38                           | 4184191.91                          |
| 1.34E-7                          |                                 |                                     | 591665.19                           | 4184216.77                          |
| 1.34E-7                          |                                 |                                     | 591631.12                           | 4184244.40                          |
| 1.34E-7                          |                                 |                                     | 591609.94                           | 4184259.13                          |
| 1.34E-7                          |                                 |                                     | 591585.08                           | 4184270.18                          |
| 1.34E-7                          |                                 |                                     | 591574.95                           | 4184270.18                          |

# Source Pathv

## Line Volume Sources

**Source Type:** LINE VOLUME

**Source:** ROAD1\_DPM (Como

| Length of Side<br>[m] | E |
|-----------------------|---|
| 13.00                 |   |
|                       |   |
|                       |   |

**Source Type:** LINE VOLUME

**Source:** ROAD1\_PM25 (Com

| Length of Side<br>[m] | E |
|-----------------------|---|
| 14.00                 |   |
|                       |   |
|                       |   |

**Source Type:** LINE VOLUME

**Source:** ROAD2\_DPM (EI Ca

| Length of Side<br>[m] | E |
|-----------------------|---|
| 14.00                 |   |
|                       |   |
|                       |   |
|                       |   |
|                       |   |
|                       |   |
|                       |   |
|                       |   |

# Source Inputs

AERMOD

|  | Building Height<br>[m] | X Coordinate for Points<br>[m] | Y Coordinate for points<br>[m] | Base Elevation<br>[m] | Release Height<br>[m] |
|--|------------------------|--------------------------------|--------------------------------|-----------------------|-----------------------|
|  | Surface-Based          | 591410.87                      | 4183568.68                     | 172.00                | 3.40                  |
|  |                        | 591191.86                      | 4183562.00                     | 150.94                | 3.40                  |
|  |                        | 591191.86                      | 4183558.10                     | 150.95                | 3.40                  |

|  | Building Height<br>[m] | X Coordinate for Points<br>[m] | Y Coordinate for points<br>[m] | Base Elevation<br>[m] | Release Height<br>[m] |
|--|------------------------|--------------------------------|--------------------------------|-----------------------|-----------------------|
|  | Surface-Based          | 591410.87                      | 4183568.68                     | 172.00                | 3.40                  |
|  |                        | 591191.86                      | 4183562.00                     | 150.94                | 3.40                  |
|  |                        | 591191.86                      | 4183558.10                     | 150.95                | 3.40                  |

|  | Building Height<br>[m] | X Coordinate for Points<br>[m] | Y Coordinate for points<br>[m] | Base Elevation<br>[m] | Release Height<br>[m] |
|--|------------------------|--------------------------------|--------------------------------|-----------------------|-----------------------|
|  | Surface-Based          | 591104.13                      | 4183798.53                     | 153.91                | 3.40                  |
|  |                        | 591153.09                      | 4183756.24                     | 153.28                | 3.40                  |
|  |                        | 591190.93                      | 4183678.34                     | 152.41                | 3.40                  |
|  |                        | 591193.16                      | 4183627.15                     | 151.74                | 3.40                  |
|  |                        | 591190.93                      | 4183569.28                     | 150.99                | 3.40                  |
|  |                        | 591188.08                      | 4183519.17                     | 150.46                | 3.40                  |
|  |                        | 591186.14                      | 4183479.17                     | 149.97                | 3.40                  |
|  |                        | 591162.37                      | 4183409.68                     | 148.69                | 3.40                  |
|  |                        | 591135.29                      | 4183362.28                     | 147.57                | 3.40                  |

# Source Path

Source Type: LINE VOLUME  
Source: ROAD2\_PM25 (EI C&S)

| Length of Side [m] | E |
|--------------------|---|
| 14.00              |   |
|                    |   |
|                    |   |
|                    |   |
|                    |   |
|                    |   |
|                    |   |
|                    |   |
|                    |   |

Source Type: LINE VOLUME  
Source: ROAD3\_DPM (Borice)

| Length of Side [m] | E |
|--------------------|---|
| 14.00              |   |
|                    |   |
|                    |   |
|                    |   |
|                    |   |
|                    |   |
|                    |   |
|                    |   |
|                    |   |
|                    |   |
|                    |   |
|                    |   |
|                    |   |
|                    |   |
|                    |   |

# Source Inputs

AERMOD

e)

|  | Building Height [m] | X Coordinate for Points [m] | Y Coordinate for points [m] | Base Elevation [m] | Release Height [m] |
|--|---------------------|-----------------------------|-----------------------------|--------------------|--------------------|
|  | Surface-Based       | 591104.13                   | 4183798.53                  | 153.91             | 3.40               |
|  |                     | 591153.09                   | 4183756.24                  | 153.28             | 3.40               |
|  |                     | 591190.93                   | 4183678.34                  | 152.41             | 3.40               |
|  |                     | 591193.16                   | 4183627.15                  | 151.74             | 3.40               |
|  |                     | 591190.93                   | 4183569.28                  | 150.99             | 3.40               |
|  |                     | 591188.08                   | 4183519.17                  | 150.46             | 3.40               |
|  |                     | 591186.14                   | 4183479.17                  | 149.97             | 3.40               |
|  |                     | 591162.37                   | 4183409.68                  | 148.69             | 3.40               |
|  |                     | 591135.29                   | 4183362.28                  | 147.57             | 3.40               |

JM)

|  | Building Height [m] | X Coordinate for Points [m] | Y Coordinate for points [m] | Base Elevation [m] | Release Height [m] |
|--|---------------------|-----------------------------|-----------------------------|--------------------|--------------------|
|  |                     | 591118.11                   | 4183814.63                  | 154.32             | 3.40               |
|  |                     | 591211.11                   | 4183969.33                  | 161.05             | 3.40               |
|  |                     | 591233.21                   | 4184013.53                  | 163.75             | 3.40               |
|  |                     | 591245.18                   | 4184092.72                  | 168.55             | 3.40               |
|  |                     | 591256.23                   | 4184162.71                  | 174.52             | 3.40               |
|  |                     | 591267.28                   | 4184196.78                  | 177.00             | 3.40               |
|  |                     | 591284.78                   | 4184223.48                  | 178.36             | 3.40               |
|  |                     | 591305.04                   | 4184247.42                  | 179.52             | 3.40               |
|  |                     | 591327.14                   | 4184262.16                  | 180.61             | 3.40               |
|  |                     | 591358.44                   | 4184276.89                  | 182.91             | 3.40               |
|  |                     | 591389.75                   | 4184283.33                  | 184.82             | 3.40               |
|  |                     | 591444.08                   | 4184286.10                  | 188.71             | 3.40               |
|  |                     | 591490.12                   | 4184287.02                  | 191.62             | 3.40               |
|  |                     | 591526.96                   | 4184278.73                  | 194.23             | 3.40               |
|  |                     | 591568.39                   | 4184265.84                  | 196.80             | 3.40               |
|  |                     | 591573.00                   | 4184265.84                  | 197.22             | 3.40               |

# Source Pathv

Source Type: LINE VOLUME  
Source: ROAD3\_PM2.5 (Bori

| Length of Side<br>[m] | E |
|-----------------------|---|
| 14.00                 |   |
|                       |   |
|                       |   |
|                       |   |
|                       |   |
|                       |   |
|                       |   |
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|                       |   |
|                       |   |
|                       |   |
|                       |   |
|                       |   |
|                       |   |

# Source Inputs

AERMOD

.5UM)

|  | Building Height<br>[m] | X Coordinate for Points<br>[m] | Y Coordinate for points<br>[m] | Base Elevation<br>[m] | Release Height<br>[m] |
|--|------------------------|--------------------------------|--------------------------------|-----------------------|-----------------------|
|  |                        | 591118.11                      | 4183814.63                     | 154.32                | 3.40                  |
|  |                        | 591211.11                      | 4183969.33                     | 161.05                | 3.40                  |
|  |                        | 591233.21                      | 4184013.53                     | 163.75                | 3.40                  |
|  |                        | 591245.18                      | 4184092.72                     | 168.55                | 3.40                  |
|  |                        | 591256.23                      | 4184162.71                     | 174.52                | 3.40                  |
|  |                        | 591267.28                      | 4184196.78                     | 177.00                | 3.40                  |
|  |                        | 591284.78                      | 4184223.48                     | 178.36                | 3.40                  |
|  |                        | 591305.04                      | 4184247.42                     | 179.52                | 3.40                  |
|  |                        | 591327.14                      | 4184262.16                     | 180.61                | 3.40                  |
|  |                        | 591358.44                      | 4184276.89                     | 182.91                | 3.40                  |
|  |                        | 591389.75                      | 4184283.33                     | 184.82                | 3.40                  |
|  |                        | 591444.08                      | 4184286.10                     | 188.71                | 3.40                  |
|  |                        | 591490.12                      | 4184287.02                     | 191.62                | 3.40                  |
|  |                        | 591526.96                      | 4184278.73                     | 194.23                | 3.40                  |
|  |                        | 591568.39                      | 4184265.84                     | 196.80                | 3.40                  |
|  |                        | 591573.00                      | 4184265.84                     | 197.22                | 3.40                  |

# Source Pathway

# Source Inputs

AERMOD

## Volume Sources Generated

| Line Source ID | Volume Source ID |
|----------------|------------------|
| ROAD1_DPM      | L0000562         |
|                | L0000563         |
|                | L0000564         |
|                | L0000565         |
|                | L0000566         |
|                | L0000567         |
|                | L0000568         |
|                | L0000569         |
|                | L0000570         |
|                | L0000571         |
|                | L0000572         |
|                | L0000573         |
|                | L0000574         |
|                | L0000575         |
|                | L0000576         |
|                | L0000577         |
|                | L0000578         |

| Line Source ID | Volume Source ID |
|----------------|------------------|
| ROAD2_DPM      | L0000579         |
|                | L0000580         |
|                | L0000581         |
|                | L0000582         |
|                | L0000583         |

## Point Sources

| X Coordinate [m] | Y Coordinate [m] | Base Elevation [m] | Release Height [m] | Emission Rate [g/s] | Length of Side [m] | Building Height [m] | Initial Lateral Dimension [m] | Initial Vertical Dimension [m] |
|------------------|------------------|--------------------|--------------------|---------------------|--------------------|---------------------|-------------------------------|--------------------------------|
| 104.37           | 4183568.48       | 171.00             | 3.40               | 9.34E-9             | 13.00              | Surface-Based       | 6.05                          | 3.16                           |
| 391.38           | 4183568.08       | 169.20             | 3.40               | 9.34E-9             | 13.00              | Surface-Based       | 6.05                          | 3.16                           |
| 378.38           | 4183567.69       | 167.80             | 3.40               | 9.34E-9             | 13.00              | Surface-Based       | 6.05                          | 3.16                           |
| 365.39           | 4183567.29       | 166.29             | 3.40               | 9.34E-9             | 13.00              | Surface-Based       | 6.05                          | 3.16                           |
| 352.39           | 4183566.89       | 164.57             | 3.40               | 9.34E-9             | 13.00              | Surface-Based       | 6.05                          | 3.16                           |
| 339.40           | 4183566.50       | 163.17             | 3.40               | 9.34E-9             | 13.00              | Surface-Based       | 6.05                          | 3.16                           |
| 326.41           | 4183566.10       | 161.77             | 3.40               | 9.34E-9             | 13.00              | Surface-Based       | 6.05                          | 3.16                           |
| 313.41           | 4183565.70       | 160.21             | 3.40               | 9.34E-9             | 13.00              | Surface-Based       | 6.05                          | 3.16                           |
| 300.42           | 4183565.31       | 159.05             | 3.40               | 9.34E-9             | 13.00              | Surface-Based       | 6.05                          | 3.16                           |
| 287.42           | 4183564.91       | 157.76             | 3.40               | 9.34E-9             | 13.00              | Surface-Based       | 6.05                          | 3.16                           |
| 274.43           | 4183564.51       | 156.63             | 3.40               | 9.34E-9             | 13.00              | Surface-Based       | 6.05                          | 3.16                           |
| 261.44           | 4183564.12       | 155.53             | 3.40               | 9.34E-9             | 13.00              | Surface-Based       | 6.05                          | 3.16                           |
| 248.44           | 4183563.72       | 154.20             | 3.40               | 9.34E-9             | 13.00              | Surface-Based       | 6.05                          | 3.16                           |
| 235.45           | 4183563.33       | 153.32             | 3.40               | 9.34E-9             | 13.00              | Surface-Based       | 6.05                          | 3.16                           |
| 222.45           | 4183562.93       | 152.22             | 3.40               | 9.34E-9             | 13.00              | Surface-Based       | 6.05                          | 3.16                           |
| 209.46           | 4183562.53       | 151.50             | 3.40               | 9.34E-9             | 13.00              | Surface-Based       | 6.05                          | 3.16                           |
| 196.47           | 4183562.14       | 151.03             | 3.40               | 9.34E-9             | 13.00              | Surface-Based       | 6.05                          | 3.16                           |

| X Coordinate [m] | Y Coordinate [m] | Base Elevation [m] | Release Height [m] | Emission Rate [g/s] | Length of Side [m] | Building Height [m] | Initial Lateral Dimension [m] | Initial Vertical Dimension [m] |
|------------------|------------------|--------------------|--------------------|---------------------|--------------------|---------------------|-------------------------------|--------------------------------|
| 109.42           | 4183793.96       | 153.82             | 3.40               | 1.00E-8             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |
| 120.02           | 4183784.81       | 153.68             | 3.40               | 1.00E-8             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |
| 130.62           | 4183775.66       | 153.54             | 3.40               | 1.00E-8             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |
| 141.21           | 4183766.51       | 153.40             | 3.40               | 1.00E-8             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |
| 151.81           | 4183757.36       | 153.31             | 3.40               | 1.00E-8             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |

## Source Pathway

| Line Source ID | Volume Source ID |
|----------------|------------------|
| ROAD2_DPM      | L0000584         |
|                | L0000585         |
|                | L0000586         |
|                | L0000587         |
|                | L0000588         |
|                | L0000589         |
|                | L0000590         |
|                | L0000591         |
|                | L0000592         |
|                | L0000593         |
|                | L0000594         |
|                | L0000595         |
|                | L0000596         |
|                | L0000597         |
|                | L0000598         |
|                | L0000599         |
|                | L0000600         |
|                | L0000601         |
|                | L0000602         |
|                | L0000603         |
|                | L0000604         |
|                | L0000605         |
|                | L0000606         |
|                | L0000607         |
|                | L0000608         |

## Source Inputs

| AERMOD         |                  |                    |                    |                     |                    |                     |                               |                                |  |
|----------------|------------------|--------------------|--------------------|---------------------|--------------------|---------------------|-------------------------------|--------------------------------|--|
| Coordinate [m] | Y Coordinate [m] | Base Elevation [m] | Release Height [m] | Emission Rate [g/s] | Length of Side [m] | Building Height [m] | Initial Lateral Dimension [m] | Initial Vertical Dimension [m] |  |
| 158.47         | 4183745.18       | 153.09             | 3.40               | 1.00E-8             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 164.58         | 4183732.59       | 152.98             | 3.40               | 1.00E-8             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 170.70         | 4183719.99       | 152.87             | 3.40               | 1.00E-8             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 176.82         | 4183707.40       | 152.71             | 3.40               | 1.00E-8             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 182.93         | 4183694.81       | 152.54             | 3.40               | 1.00E-8             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 189.05         | 4183682.22       | 152.47             | 3.40               | 1.00E-8             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 191.35         | 4183668.66       | 152.29             | 3.40               | 1.00E-8             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 191.96         | 4183654.67       | 152.10             | 3.40               | 1.00E-8             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 192.57         | 4183640.68       | 151.89             | 3.40               | 1.00E-8             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 193.14         | 4183626.70       | 151.68             | 3.40               | 1.00E-8             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 192.60         | 4183612.71       | 151.45             | 3.40               | 1.00E-8             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 192.06         | 4183598.72       | 151.30             | 3.40               | 1.00E-8             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 191.53         | 4183584.73       | 151.16             | 3.40               | 1.00E-8             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 190.99         | 4183570.74       | 151.01             | 3.40               | 1.00E-8             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 190.22         | 4183556.76       | 150.90             | 3.40               | 1.00E-8             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 189.42         | 4183542.78       | 150.82             | 3.40               | 1.00E-8             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 188.63         | 4183528.81       | 150.68             | 3.40               | 1.00E-8             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 187.87         | 4183514.83       | 150.43             | 3.40               | 1.00E-8             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 187.19         | 4183500.84       | 150.23             | 3.40               | 1.00E-8             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 186.51         | 4183486.86       | 150.09             | 3.40               | 1.00E-8             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 184.10         | 4183473.21       | 149.84             | 3.40               | 1.00E-8             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 179.57         | 4183459.96       | 149.62             | 3.40               | 1.00E-8             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 175.04         | 4183446.71       | 149.35             | 3.40               | 1.00E-8             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 170.51         | 4183433.47       | 149.14             | 3.40               | 1.00E-8             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 165.97         | 4183420.22       | 148.90             | 3.40               | 1.00E-8             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |

## Source Pathway

| Line Source ID | Volume Source ID |
|----------------|------------------|
| ROAD2_DPM      | L0000609         |
|                | L0000610         |
|                | L0000611         |
|                | L0000612         |

| Line Source ID | Volume Source ID |
|----------------|------------------|
| ROAD1_PM25     | L0000613         |
|                | L0000614         |
|                | L0000615         |
|                | L0000616         |
|                | L0000617         |
|                | L0000618         |
|                | L0000619         |
|                | L0000620         |
|                | L0000621         |
|                | L0000622         |
|                | L0000623         |
|                | L0000624         |
|                | L0000625         |
|                | L0000626         |
|                | L0000627         |
|                | L0000628         |

| Line Source ID | Volume Source ID |
|----------------|------------------|
|----------------|------------------|

## Source Inputs

| AERMOD           |                  |                    |                    |                     |                    |                     |                               |                                |  |
|------------------|------------------|--------------------|--------------------|---------------------|--------------------|---------------------|-------------------------------|--------------------------------|--|
| X Coordinate [m] | Y Coordinate [m] | Base Elevation [m] | Release Height [m] | Emission Rate [g/s] | Length of Side [m] | Building Height [m] | Initial Lateral Dimension [m] | Initial Vertical Dimension [m] |  |
| 160.95           | 4183407.20       | 148.68             | 3.40               | 1.00E-8             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 154.00           | 4183395.04       | 148.41             | 3.40               | 1.00E-8             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 147.06           | 4183382.89       | 148.13             | 3.40               | 1.00E-8             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 140.11           | 4183370.73       | 147.84             | 3.40               | 1.00E-8             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| X Coordinate [m] | Y Coordinate [m] | Base Elevation [m] | Release Height [m] | Emission Rate [g/s] | Length of Side [m] | Building Height [m] | Initial Lateral Dimension [m] | Initial Vertical Dimension [m] |  |
| 103.87           | 4183568.46       | 170.93             | 3.40               | 4.31E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 189.88           | 4183568.04       | 169.00             | 3.40               | 4.31E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 175.88           | 4183567.61       | 167.54             | 3.40               | 4.31E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 161.89           | 4183567.18       | 165.81             | 3.40               | 4.31E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 147.90           | 4183566.76       | 164.06             | 3.40               | 4.31E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 133.90           | 4183566.33       | 162.57             | 3.40               | 4.31E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 119.91           | 4183565.90       | 160.99             | 3.40               | 4.31E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 105.91           | 4183565.48       | 159.48             | 3.40               | 4.31E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 91.92            | 4183565.05       | 158.21             | 3.40               | 4.31E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 77.93            | 4183564.62       | 156.91             | 3.40               | 4.31E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 63.93            | 4183564.19       | 155.79             | 3.40               | 4.31E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 49.94            | 4183563.77       | 154.30             | 3.40               | 4.31E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 35.95            | 4183563.34       | 153.35             | 3.40               | 4.31E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 21.95            | 4183562.91       | 152.18             | 3.40               | 4.31E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 7.96             | 4183562.49       | 151.44             | 3.40               | 4.31E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 93.97            | 4183562.06       | 150.96             | 3.40               | 4.31E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| X Coordinate [m] | Y Coordinate [m] | Base Elevation [m] | Release Height [m] | Emission Rate [g/s] | Length of Side [m] | Building Height [m] | Initial Lateral Dimension [m] | Initial Vertical Dimension [m] |  |

## Source Pathway

| Line Source ID | Volume Source ID |
|----------------|------------------|
| ROAD2_PM25     | L0000629         |
|                | L0000630         |
|                | L0000631         |
|                | L0000632         |
|                | L0000633         |
|                | L0000634         |
|                | L0000635         |
|                | L0000636         |
|                | L0000637         |
|                | L0000638         |
|                | L0000639         |
|                | L0000640         |
|                | L0000641         |
|                | L0000642         |
|                | L0000643         |
|                | L0000644         |
|                | L0000645         |
|                | L0000646         |
|                | L0000647         |
|                | L0000648         |
|                | L0000649         |
|                | L0000650         |
|                | L0000651         |
|                | L0000652         |
|                | L0000653         |

## Source Inputs

| AERMOD           |                  |                    |                    |                     |                    |                     |                               |                                |  |
|------------------|------------------|--------------------|--------------------|---------------------|--------------------|---------------------|-------------------------------|--------------------------------|--|
| X Coordinate [m] | Y Coordinate [m] | Base Elevation [m] | Release Height [m] | Emission Rate [g/s] | Length of Side [m] | Building Height [m] | Initial Lateral Dimension [m] | Initial Vertical Dimension [m] |  |
| 109.42           | 4183793.96       | 153.82             | 3.40               | 4.36E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 120.02           | 4183784.81       | 153.68             | 3.40               | 4.36E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 130.62           | 4183775.66       | 153.54             | 3.40               | 4.36E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 141.21           | 4183766.51       | 153.40             | 3.40               | 4.36E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 151.81           | 4183757.36       | 153.31             | 3.40               | 4.36E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 158.47           | 4183745.18       | 153.09             | 3.40               | 4.36E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 164.58           | 4183732.59       | 152.98             | 3.40               | 4.36E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 170.70           | 4183719.99       | 152.87             | 3.40               | 4.36E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 176.82           | 4183707.40       | 152.71             | 3.40               | 4.36E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 182.93           | 4183694.81       | 152.54             | 3.40               | 4.36E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 189.05           | 4183682.22       | 152.47             | 3.40               | 4.36E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 191.35           | 4183668.66       | 152.29             | 3.40               | 4.36E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 191.96           | 4183654.67       | 152.10             | 3.40               | 4.36E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 192.57           | 4183640.68       | 151.89             | 3.40               | 4.36E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 193.14           | 4183626.70       | 151.68             | 3.40               | 4.36E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 192.60           | 4183612.71       | 151.45             | 3.40               | 4.36E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 192.06           | 4183598.72       | 151.30             | 3.40               | 4.36E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 191.53           | 4183584.73       | 151.16             | 3.40               | 4.36E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 190.99           | 4183570.74       | 151.01             | 3.40               | 4.36E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 190.22           | 4183556.76       | 150.90             | 3.40               | 4.36E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 189.42           | 4183542.78       | 150.82             | 3.40               | 4.36E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 188.63           | 4183528.81       | 150.68             | 3.40               | 4.36E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 187.87           | 4183514.83       | 150.43             | 3.40               | 4.36E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 187.19           | 4183500.84       | 150.23             | 3.40               | 4.36E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 186.51           | 4183486.86       | 150.09             | 3.40               | 4.36E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |

## Source Pathway

| Line Source ID | Volume Source ID |
|----------------|------------------|
| ROAD2_PM25     | L0000654         |
|                | L0000655         |
|                | L0000656         |
|                | L0000657         |
|                | L0000658         |
|                | L0000659         |
|                | L0000660         |
|                | L0000661         |
|                | L0000662         |

| Line Source ID | Volume Source ID |
|----------------|------------------|
| ROAD3_DPM      | L0000663         |
|                | L0000664         |
|                | L0000665         |
|                | L0000666         |
|                | L0000667         |
|                | L0000668         |
|                | L0000669         |
|                | L0000670         |
|                | L0000671         |
|                | L0000672         |
|                | L0000673         |
|                | L0000674         |
|                | L0000675         |
|                | L0000676         |

## Source Inputs

| AERMOD           |                  |                    |                    |                     |                    |                     |                               |                                |  |
|------------------|------------------|--------------------|--------------------|---------------------|--------------------|---------------------|-------------------------------|--------------------------------|--|
| X Coordinate [m] | Y Coordinate [m] | Base Elevation [m] | Release Height [m] | Emission Rate [g/s] | Length of Side [m] | Building Height [m] | Initial Lateral Dimension [m] | Initial Vertical Dimension [m] |  |
| 184.10           | 4183473.21       | 149.84             | 3.40               | 4.36E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 179.57           | 4183459.96       | 149.62             | 3.40               | 4.36E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 175.04           | 4183446.71       | 149.35             | 3.40               | 4.36E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 170.51           | 4183433.47       | 149.14             | 3.40               | 4.36E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 165.97           | 4183420.22       | 148.90             | 3.40               | 4.36E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 160.95           | 4183407.20       | 148.68             | 3.40               | 4.36E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 154.00           | 4183395.04       | 148.41             | 3.40               | 4.36E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 147.06           | 4183382.89       | 148.13             | 3.40               | 4.36E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| 140.11           | 4183370.73       | 147.84             | 3.40               | 4.36E-7             | 14.00              | Surface-Based       | 6.51                          | 3.16                           |  |
| X Coordinate [m] | Y Coordinate [m] | Base Elevation [m] | Release Height [m] | Emission Rate [g/s] | Length of Side [m] | Building Height [m] | Initial Lateral Dimension [m] | Initial Vertical Dimension [m] |  |
| 121.71           | 4183820.63       | 154.48             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |  |
| 128.93           | 4183832.63       | 154.84             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |  |
| 136.14           | 4183844.63       | 155.18             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |  |
| 143.35           | 4183856.63       | 155.58             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |  |
| 150.57           | 4183868.63       | 156.07             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |  |
| 157.78           | 4183880.62       | 156.67             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |  |
| 164.99           | 4183892.62       | 157.29             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |  |
| 172.21           | 4183904.62       | 157.96             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |  |
| 179.42           | 4183916.62       | 158.59             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |  |
| 186.64           | 4183928.62       | 159.23             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |  |
| 193.85           | 4183940.62       | 159.89             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |  |
| 201.06           | 4183952.62       | 160.47             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |  |
| 208.28           | 4183964.61       | 161.13             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |  |
| 214.91           | 4183976.93       | 161.80             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |  |

## Source Path

| Line Source ID | Volume Source ID |
|----------------|------------------|
| ROAD3_DPM      | L0000677         |
|                | L0000678         |
|                | L0000679         |
|                | L0000680         |
|                | L0000681         |
|                | L0000682         |
|                | L0000683         |
|                | L0000684         |
|                | L0000685         |
|                | L0000686         |
|                | L0000687         |
|                | L0000688         |
|                | L0000689         |
|                | L0000690         |
|                | L0000691         |
|                | L0000692         |
|                | L0000693         |
|                | L0000694         |
|                | L0000695         |
|                | L0000696         |
|                | L0000697         |
|                | L0000698         |
|                | L0000699         |
|                | L0000700         |
|                | L0000701         |

## Source Inputs

| AERMOD           |                  |                    |                    |                     |                    |                     |                               |                                |
|------------------|------------------|--------------------|--------------------|---------------------|--------------------|---------------------|-------------------------------|--------------------------------|
| X Coordinate [m] | Y Coordinate [m] | Base Elevation [m] | Release Height [m] | Emission Rate [g/s] | Length of Side [m] | Building Height [m] | Initial Lateral Dimension [m] | Initial Vertical Dimension [m] |
| 221.17           | 4183989.45       | 162.53             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |
| 227.43           | 4184001.97       | 163.24             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |
| 233.37           | 4184014.60       | 163.76             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |
| 235.46           | 4184028.44       | 164.44             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |
| 237.56           | 4184042.28       | 165.19             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |
| 239.65           | 4184056.13       | 166.04             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |
| 241.74           | 4184069.97       | 166.97             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |
| 243.83           | 4184083.81       | 167.81             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |
| 245.96           | 4184097.65       | 168.77             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |
| 248.14           | 4184111.48       | 169.70             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |
| 250.33           | 4184125.31       | 170.73             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |
| 252.51           | 4184139.14       | 171.83             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |
| 254.69           | 4184152.96       | 173.24             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |
| 257.51           | 4184166.64       | 174.58             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |
| 261.83           | 4184179.96       | 175.78             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |
| 266.15           | 4184193.28       | 176.79             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |
| 272.94           | 4184205.41       | 177.57             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |
| 280.61           | 4184217.12       | 178.03             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |
| 288.91           | 4184228.36       | 178.52             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |
| 297.95           | 4184239.05       | 178.98             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |
| 307.56           | 4184249.10       | 179.47             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |
| 319.21           | 4184256.87       | 180.14             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |
| 331.18           | 4184264.06       | 181.01             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |
| 343.85           | 4184270.02       | 181.88             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |
| 356.52           | 4184275.98       | 182.79             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |

## Source Pathway

| Line Source ID | Volume Source ID |
|----------------|------------------|
| ROAD3_DPM      | L0000702         |
|                | L0000703         |
|                | L0000704         |
|                | L0000705         |
|                | L0000706         |
|                | L0000707         |
|                | L0000708         |
|                | L0000709         |
|                | L0000710         |
|                | L0000711         |
|                | L0000712         |
|                | L0000713         |
|                | L0000714         |
|                | L0000715         |
|                | L0000716         |

| Line Source ID | Volume Source ID |
|----------------|------------------|
| ROAD3_PM2.5    | L0000717         |
|                | L0000718         |
|                | L0000719         |
|                | L0000720         |
|                | L0000721         |
|                | L0000722         |
|                | L0000723         |
|                | L0000724         |

## Source Inputs

| AERMOD           |                  |                    |                    |                     |                    |                     |                               |                                |
|------------------|------------------|--------------------|--------------------|---------------------|--------------------|---------------------|-------------------------------|--------------------------------|
| X Coordinate [m] | Y Coordinate [m] | Base Elevation [m] | Release Height [m] | Emission Rate [g/s] | Length of Side [m] | Building Height [m] | Initial Lateral Dimension [m] | Initial Vertical Dimension [m] |
| 370.07           | 4184279.28       | 183.68             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |
| 383.78           | 4184282.11       | 184.54             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |
| 397.65           | 4184283.74       | 185.39             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |
| 411.63           | 4184284.45       | 186.37             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |
| 425.61           | 4184285.16       | 187.30             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |
| 439.59           | 4184285.87       | 188.20             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |
| 453.59           | 4184286.29       | 189.17             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |
| 467.58           | 4184286.57       | 190.04             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |
| 481.58           | 4184286.85       | 190.98             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |
| 495.45           | 4184285.82       | 191.85             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |
| 509.10           | 4184282.75       | 192.77             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |
| 522.76           | 4184279.67       | 193.82             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |
| 536.22           | 4184275.85       | 194.68             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |
| 549.59           | 4184271.69       | 195.66             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |
| 562.96           | 4184267.53       | 196.53             | 3.40               | 1.00E-8             | 14.00              |                     | 6.51                          | 3.16                           |
| X Coordinate [m] | Y Coordinate [m] | Base Elevation [m] | Release Height [m] | Emission Rate [g/s] | Length of Side [m] | Building Height [m] | Initial Lateral Dimension [m] | Initial Vertical Dimension [m] |
| 621.71           | 4183820.63       | 154.48             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 628.93           | 4183832.63       | 154.84             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 636.14           | 4183844.63       | 155.18             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 643.35           | 4183856.63       | 155.58             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 650.57           | 4183868.63       | 156.07             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 657.78           | 4183880.62       | 156.67             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 664.99           | 4183892.62       | 157.29             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 672.21           | 4183904.62       | 157.96             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |

## Source Path

| Line Source ID | Volume Source ID |
|----------------|------------------|
| ROAD3_PM2.5    | L0000725         |
|                | L0000726         |
|                | L0000727         |
|                | L0000728         |
|                | L0000729         |
|                | L0000730         |
|                | L0000731         |
|                | L0000732         |
|                | L0000733         |
|                | L0000734         |
|                | L0000735         |
|                | L0000736         |
|                | L0000737         |
|                | L0000738         |
|                | L0000739         |
|                | L0000740         |
|                | L0000741         |
|                | L0000742         |
|                | L0000743         |
|                | L0000744         |
|                | L0000745         |
|                | L0000746         |
|                | L0000747         |
|                | L0000748         |
|                | L0000749         |

## Source Inputs

| AERMOD         |                  |                    |                    |                     |                    |                     |                               |                                |
|----------------|------------------|--------------------|--------------------|---------------------|--------------------|---------------------|-------------------------------|--------------------------------|
| Coordinate [m] | Y Coordinate [m] | Base Elevation [m] | Release Height [m] | Emission Rate [g/s] | Length of Side [m] | Building Height [m] | Initial Lateral Dimension [m] | Initial Vertical Dimension [m] |
| 179.42         | 4183916.62       | 158.59             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 186.64         | 4183928.62       | 159.23             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 193.85         | 4183940.62       | 159.89             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 201.06         | 4183952.62       | 160.47             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 208.28         | 4183964.61       | 161.13             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 214.91         | 4183976.93       | 161.80             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 221.17         | 4183989.45       | 162.53             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 227.43         | 4184001.97       | 163.24             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 233.37         | 4184014.60       | 163.76             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 235.46         | 4184028.44       | 164.44             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 237.56         | 4184042.28       | 165.19             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 239.65         | 4184056.13       | 166.04             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 241.74         | 4184069.97       | 166.97             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 243.83         | 4184083.81       | 167.81             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 245.96         | 4184097.65       | 168.77             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 248.14         | 4184111.48       | 169.70             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 250.33         | 4184125.31       | 170.73             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 252.51         | 4184139.14       | 171.83             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 254.69         | 4184152.96       | 173.24             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 257.51         | 4184166.64       | 174.58             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 261.83         | 4184179.96       | 175.78             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 266.15         | 4184193.28       | 176.79             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 272.94         | 4184205.41       | 177.57             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 280.61         | 4184217.12       | 178.03             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 288.91         | 4184228.36       | 178.52             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |

## Source Path

| Line Source ID | Volume Source ID |
|----------------|------------------|
| ROAD3_PM2.5    | L0000750         |
|                | L0000751         |
|                | L0000752         |
|                | L0000753         |
|                | L0000754         |
|                | L0000755         |
|                | L0000756         |
|                | L0000757         |
|                | L0000758         |
|                | L0000759         |
|                | L0000760         |
|                | L0000761         |
|                | L0000762         |
|                | L0000763         |
|                | L0000764         |
|                | L0000765         |
|                | L0000766         |
|                | L0000767         |
|                | L0000768         |
|                | L0000769         |
|                | L0000770         |

## Source Inputs

| AERMOD         |                  |                    |                    |                     |                    |                     |                               |                                |
|----------------|------------------|--------------------|--------------------|---------------------|--------------------|---------------------|-------------------------------|--------------------------------|
| Coordinate [m] | Y Coordinate [m] | Base Elevation [m] | Release Height [m] | Emission Rate [g/s] | Length of Side [m] | Building Height [m] | Initial Lateral Dimension [m] | Initial Vertical Dimension [m] |
| 297.95         | 4184239.05       | 178.98             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 307.56         | 4184249.10       | 179.47             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 319.21         | 4184256.87       | 180.14             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 331.18         | 4184264.06       | 181.01             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 343.85         | 4184270.02       | 181.88             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 356.52         | 4184275.98       | 182.79             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 370.07         | 4184279.28       | 183.68             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 383.78         | 4184282.11       | 184.54             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 397.65         | 4184283.74       | 185.39             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 411.63         | 4184284.45       | 186.37             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 425.61         | 4184285.16       | 187.30             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 439.59         | 4184285.87       | 188.20             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 453.59         | 4184286.29       | 189.17             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 467.58         | 4184286.57       | 190.04             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 481.58         | 4184286.85       | 190.98             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 495.45         | 4184285.82       | 191.85             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 509.10         | 4184282.75       | 192.77             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 522.76         | 4184279.67       | 193.82             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 536.22         | 4184275.85       | 194.68             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 549.59         | 4184271.69       | 195.66             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |
| 562.96         | 4184267.53       | 196.53             | 3.40               | 4.35E-7             | 14.00              |                     | 6.51                          | 3.16                           |

# Source Pathway

AERMOD

## Building Downwash Information

Option not in use

## Emission Rate Units for Output

### For Concentration

Unit Factor: 1E6  
Emission Unit Label: GRAMS/SEC  
Concentration Unit Label: MICROGRAMS/M\*\*3

## Source Groups

| Source Group ID: PM25 | List of Sources in Group (Source Range or Single Sources) |
|-----------------------|-----------------------------------------------------------|
|                       | ROAD1_PM25<br>ROAD2_PM25<br>ROAD3_PM2.5<br>SITE_PM2.5UM   |
| Source Group ID: DPM  | List of Sources in Group (Source Range or Single Sources) |
|                       | ROAD1_DPM<br>ROAD2_DPM<br>ROAD3_DPM<br>SITE_DPMUM         |

## Variable Emissions

# Source Pathway

AERMOD

## Hour-of-Day / Day-of-Week Emission Rate Variation

Scenario: Scenario 1

|                              |         |      |      |      |      |      |      |
|------------------------------|---------|------|------|------|------|------|------|
| <b>Source ID: ROAD1_DPM</b>  |         |      |      |      |      |      |      |
| <b>Weekdays</b>              |         |      |      |      |      |      |      |
| Hour                         | 1 - 6   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| of                           | 7 - 12  | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Day                          | 13 - 18 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 |
|                              | 19 - 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| <b>Saturday</b>              |         |      |      |      |      |      |      |
| Hour                         | 1 - 6   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| of                           | 7 - 12  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Day                          | 13 - 18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|                              | 19 - 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| <b>Sunday</b>                |         |      |      |      |      |      |      |
| Hour                         | 1 - 6   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| of                           | 7 - 12  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Day                          | 13 - 18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|                              | 19 - 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| <b>Source ID: ROAD2_DPM</b>  |         |      |      |      |      |      |      |
| <b>Weekdays</b>              |         |      |      |      |      |      |      |
| Hour                         | 1 - 6   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| of                           | 7 - 12  | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Day                          | 13 - 18 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 |
|                              | 19 - 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| <b>Saturday</b>              |         |      |      |      |      |      |      |
| Hour                         | 1 - 6   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| of                           | 7 - 12  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Day                          | 13 - 18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|                              | 19 - 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| <b>Sunday</b>                |         |      |      |      |      |      |      |
| Hour                         | 1 - 6   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| of                           | 7 - 12  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Day                          | 13 - 18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|                              | 19 - 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| <b>Source ID: ROAD1_PM25</b> |         |      |      |      |      |      |      |
| <b>Weekdays</b>              |         |      |      |      |      |      |      |
| Hour                         | 1 - 6   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| of                           | 7 - 12  | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Day                          | 13 - 18 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 |
|                              | 19 - 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| <b>Saturday</b>              |         |      |      |      |      |      |      |
| Hour                         | 1 - 6   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| of                           | 7 - 12  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Day                          | 13 - 18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|                              | 19 - 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| <b>Sunday</b>                |         |      |      |      |      |      |      |
| Hour                         | 1 - 6   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| of                           | 7 - 12  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Day                          | 13 - 18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|                              | 19 - 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| <b>Source ID: ROAD2_PM25</b> |         |      |      |      |      |      |      |
| <b>Weekdays</b>              |         |      |      |      |      |      |      |
| Hour                         | 1 - 6   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| of                           | 7 - 12  | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Day                          | 13 - 18 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 |

# Source Pathway

AERMOD

Scenario: Scenario 1

|                               |         |         |      |      |      |      |      |      |
|-------------------------------|---------|---------|------|------|------|------|------|------|
| <b>Source ID: ROAD2_PM25</b>  |         | 19 - 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| <b>Saturday</b>               |         |         |      |      |      |      |      |      |
| Hour                          | 1 - 6   |         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| of                            | 7 - 12  |         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Day                           | 13 - 18 |         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|                               | 19 - 24 |         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| <b>Sunday</b>                 |         |         |      |      |      |      |      |      |
| Hour                          | 1 - 6   |         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| of                            | 7 - 12  |         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Day                           | 13 - 18 |         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|                               | 19 - 24 |         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| <b>Source ID: ROAD3_DPM</b>   |         |         |      |      |      |      |      |      |
| <b>Weekdays</b>               |         |         |      |      |      |      |      |      |
| Hour                          | 1 - 6   |         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| of                            | 7 - 12  |         | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Day                           | 13 - 18 |         | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 |
|                               | 19 - 24 |         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| <b>Saturday</b>               |         |         |      |      |      |      |      |      |
| Hour                          | 1 - 6   |         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| of                            | 7 - 12  |         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Day                           | 13 - 18 |         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|                               | 19 - 24 |         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| <b>Sunday</b>                 |         |         |      |      |      |      |      |      |
| Hour                          | 1 - 6   |         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| of                            | 7 - 12  |         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Day                           | 13 - 18 |         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|                               | 19 - 24 |         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| <b>Source ID: ROAD3_PM2.5</b> |         |         |      |      |      |      |      |      |
| <b>Weekdays</b>               |         |         |      |      |      |      |      |      |
| Hour                          | 1 - 6   |         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| of                            | 7 - 12  |         | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Day                           | 13 - 18 |         | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 |
|                               | 19 - 24 |         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| <b>Saturday</b>               |         |         |      |      |      |      |      |      |
| Hour                          | 1 - 6   |         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| of                            | 7 - 12  |         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Day                           | 13 - 18 |         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|                               | 19 - 24 |         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| <b>Sunday</b>                 |         |         |      |      |      |      |      |      |
| Hour                          | 1 - 6   |         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| of                            | 7 - 12  |         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Day                           | 13 - 18 |         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|                               | 19 - 24 |         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| <b>Source ID: SITE_DPMUM</b>  |         |         |      |      |      |      |      |      |
| <b>Weekdays</b>               |         |         |      |      |      |      |      |      |
| Hour                          | 1 - 6   |         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| of                            | 7 - 12  |         | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Day                           | 13 - 18 |         | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 |
|                               | 19 - 24 |         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| <b>Saturday</b>               |         |         |      |      |      |      |      |      |
| Hour                          | 1 - 6   |         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| of                            | 7 - 12  |         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Day                           | 13 - 18 |         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|                               | 19 - 24 |         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

# Source Pathway

AERMOD

Scenario: Scenario 1

|                                |         |      |      |      |      |      |      |
|--------------------------------|---------|------|------|------|------|------|------|
| <b>Source ID: SITE_DPMUM</b>   |         |      |      |      |      |      |      |
| <b>Sunday</b>                  |         |      |      |      |      |      |      |
| Hour                           | 1 - 6   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| of                             | 7 - 12  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Day                            | 13 - 18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|                                | 19 - 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| <b>Source ID: SITE_PM2.5UM</b> |         |      |      |      |      |      |      |
| <b>Weekdays</b>                |         |      |      |      |      |      |      |
| Hour                           | 1 - 6   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| of                             | 7 - 12  | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Day                            | 13 - 18 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 |
|                                | 19 - 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| <b>Saturday</b>                |         |      |      |      |      |      |      |
| Hour                           | 1 - 6   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| of                             | 7 - 12  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Day                            | 13 - 18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|                                | 19 - 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| <b>Sunday</b>                  |         |      |      |      |      |      |      |
| Hour                           | 1 - 6   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| of                             | 7 - 12  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Day                            | 13 - 18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|                                | 19 - 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## Receptor Networks

Note: Terrain Elevations and Flagpole Heights for Network Grids are in Page RE2 - 1 (If applicable)  
Generated Discrete Receptors for Multi-Tier (Risk) Grid and Receptor Locations for Fenceline Grid are in Page RE3 - 1 (If applicable)

## Discrete Receptors

### Discrete Cartesian Receptors

| Record Number | X-Coordinate [m] | Y-Coordinate [m] | Group Name (Optional) | Terrain Elevations | Flagpole Heights [m] (Optional) |
|---------------|------------------|------------------|-----------------------|--------------------|---------------------------------|
| 1             | 591380.44        | 4183592.39       | RES                   | 169.19             |                                 |
| 2             | 591326.44        | 4183590.64       | RES                   | 162.59             |                                 |
| 3             | 591295.08        | 4183587.16       | RES                   | 159.68             |                                 |
| 4             | 591235.86        | 4183583.68       | RES                   | 154.69             |                                 |
| 5             | 591216.69        | 4183587.16       | RES                   | 152.49             |                                 |
| 6             | 591380.44        | 4183550.58       | RES                   | 167.56             |                                 |
| 7             | 591343.86        | 4183552.32       | RES                   | 163.28             |                                 |
| 8             | 591314.25        | 4183547.09       | RES                   | 160.41             |                                 |
| 9             | 591281.15        | 4183540.13       | RES                   | 157.98             |                                 |
| 10            | 591242.82        | 4183545.35       | RES                   | 154.69             |                                 |
| 11            | 591221.92        | 4183545.35       | RES                   | 152.71             |                                 |
| 12            | 591214.95        | 4183500.06       | RES                   | 153.64             |                                 |
| 13            | 591258.50        | 4183500.06       | RES                   | 153.77             |                                 |
| 14            | 591298.57        | 4183498.32       | RES                   | 160.41             |                                 |
| 15            | 591328.18        | 4183503.54       | RES                   | 160.19             |                                 |
| 16            | 591359.54        | 4183505.28       | RES                   | 162.21             |                                 |
| 17            | 591361.28        | 4183470.44       | RES                   | 160.66             |                                 |
| 18            | 591342.12        | 4183440.83       | RES                   | 157.53             |                                 |
| 19            | 591333.41        | 4183418.18       | RES                   | 155.91             |                                 |
| 20            | 591298.57        | 4183458.25       | RES                   | 157.27             |                                 |
| 21            | 591288.12        | 4183437.35       | RES                   | 155.46             |                                 |
| 22            | 591263.73        | 4183468.70       | RES                   | 152.89             |                                 |
| 23            | 591258.50        | 4183437.35       | RES                   | 152.30             |                                 |
| 24            | 591216.69        | 4183470.44       | RES                   | 152.58             |                                 |
| 25            | 591211.47        | 4183442.57       | RES                   | 151.72             |                                 |
| 26            | 591603.41        | 4183346.51       | RES                   | 165.13             |                                 |
| 27            | 591587.18        | 4183349.60       | RES                   | 165.05             |                                 |
| 28            | 591572.49        | 4183344.19       | RES                   | 164.74             |                                 |
| 29            | 591557.81        | 4183350.37       | RES                   | 164.63             |                                 |
| 30            | 591544.67        | 4183353.46       | RES                   | 164.39             |                                 |

# Receptor Pathway

AERMOD

|    |           |            |     |        |
|----|-----------|------------|-----|--------|
| 31 | 591527.66 | 4183357.33 | RES | 163.96 |
| 32 | 591509.88 | 4183353.46 | RES | 163.80 |
| 33 | 591495.97 | 4183345.73 | RES | 163.56 |
| 34 | 591475.87 | 4183325.64 | RES | 162.39 |
| 35 | 591468.92 | 4183338.00 | RES | 162.18 |
| 36 | 591458.87 | 4183347.28 | RES | 161.85 |
| 37 | 591446.50 | 4183361.19 | RES | 160.99 |
| 38 | 591432.59 | 4183368.15 | RES | 160.22 |
| 39 | 591420.99 | 4183382.06 | RES | 159.48 |
| 40 | 591412.49 | 4183389.02 | RES | 159.05 |
| 41 | 591397.03 | 4183398.29 | RES | 158.59 |
| 42 | 591380.80 | 4183403.70 | RES | 157.68 |
| 43 | 591616.55 | 4183310.95 | RES | 165.08 |
| 44 | 591594.14 | 4183298.58 | RES | 164.95 |
| 45 | 591566.31 | 4183300.90 | RES | 164.81 |
| 46 | 591535.39 | 4183307.86 | RES | 164.11 |
| 47 | 591515.29 | 4183303.22 | RES | 163.47 |
| 48 | 591500.61 | 4183297.04 | RES | 162.80 |
| 49 | 591526.89 | 4183276.17 | RES | 161.01 |
| 50 | 591541.58 | 4183269.21 | RES | 160.11 |
| 51 | 591558.58 | 4183259.16 | RES | 158.99 |
| 52 | 591574.04 | 4183254.52 | RES | 158.34 |
| 53 | 591594.14 | 4183256.84 | RES | 158.05 |
| 54 | 591611.14 | 4183264.57 | RES | 157.99 |
| 55 | 591621.19 | 4183265.35 | RES | 158.22 |
| 56 | 591636.65 | 4183269.98 | RES | 158.59 |
| 57 | 591652.11 | 4183276.17 | RES | 159.29 |
| 58 | 591671.43 | 4183278.49 | RES | 160.09 |
| 59 | 591682.25 | 4183284.67 | RES | 160.82 |
| 60 | 591694.62 | 4183286.99 | RES | 161.46 |
| 61 | 591712.40 | 4183288.53 | RES | 162.27 |
| 62 | 591727.08 | 4183299.36 | RES | 163.11 |
| 63 | 591741.00 | 4183297.04 | RES | 163.66 |
| 64 | 591764.19 | 4183317.91 | RES | 166.40 |
| 65 | 591766.51 | 4183331.82 | RES | 167.04 |
| 66 | 591766.51 | 4183343.41 | RES | 167.46 |
| 67 | 591768.82 | 4183364.28 | RES | 168.21 |
| 68 | 591770.37 | 4183378.97 | RES | 168.38 |

# Receptor Pathway

AERMOD

|     |           |            |     |        |
|-----|-----------|------------|-----|--------|
| 69  | 591817.52 | 4183388.25 | RES | 168.47 |
| 70  | 591819.07 | 4183369.69 | RES | 168.38 |
| 71  | 591815.97 | 4183357.33 | RES | 168.20 |
| 72  | 591813.66 | 4183338.00 | RES | 167.57 |
| 73  | 591812.11 | 4183324.09 | RES | 167.02 |
| 74  | 591812.11 | 4183310.18 | RES | 166.53 |
| 75  | 591807.47 | 4183293.94 | RES | 166.06 |
| 76  | 591859.26 | 4183278.49 | RES | 169.22 |
| 77  | 591874.72 | 4183263.80 | RES | 169.96 |
| 78  | 591499.95 | 4183238.36 | RES | 160.45 |
| 79  | 591489.90 | 4183251.76 | RES | 161.21 |
| 80  | 591477.05 | 4183266.28 | RES | 161.88 |
| 81  | 591465.88 | 4183273.54 | RES | 162.32 |
| 82  | 591455.83 | 4183286.95 | RES | 162.53 |
| 83  | 591445.22 | 4183297.56 | RES | 162.34 |
| 84  | 591436.28 | 4183306.49 | RES | 162.09 |
| 85  | 591423.44 | 4183316.55 | RES | 161.66 |
| 86  | 591415.69 | 4183330.32 | RES | 160.85 |
| 87  | 591397.50 | 4183342.14 | RES | 159.69 |
| 88  | 591390.22 | 4183348.51 | RES | 159.14 |
| 89  | 591373.85 | 4183355.78 | RES | 158.03 |
| 90  | 591355.66 | 4183362.15 | RES | 156.98 |
| 91  | 591340.20 | 4183370.34 | RES | 156.03 |
| 92  | 591328.38 | 4183373.97 | RES | 155.63 |
| 93  | 591313.83 | 4183379.43 | RES | 154.78 |
| 94  | 591302.91 | 4183381.25 | RES | 154.19 |
| 95  | 591288.36 | 4183389.43 | RES | 153.58 |
| 96  | 591273.81 | 4183392.16 | RES | 152.74 |
| 97  | 591261.99 | 4183394.89 | RES | 152.24 |
| 98  | 591241.98 | 4183398.53 | RES | 151.49 |
| 99  | 591173.77 | 4183616.80 | RES | 152.19 |
| 100 | 591166.49 | 4183592.24 | RES | 152.11 |
| 101 | 591163.77 | 4183554.96 | RES | 151.50 |
| 102 | 591162.86 | 4183530.40 | RES | 151.19 |
| 103 | 591160.13 | 4183486.75 | RES | 148.44 |
| 104 | 591156.49 | 4183462.19 | RES | 148.49 |
| 105 | 591144.67 | 4183436.73 | RES | 148.25 |
| 106 | 591114.66 | 4183447.64 | RES | 147.25 |

# Receptor Pathway

AERMOD

|     |           |            |     |        |
|-----|-----------|------------|-----|--------|
| 107 | 591127.39 | 4183501.30 | RES | 147.88 |
| 108 | 591108.29 | 4183497.66 | RES | 147.15 |
| 109 | 591120.11 | 4183544.04 | RES | 148.81 |
| 110 | 591124.66 | 4183568.60 | RES | 148.89 |
| 111 | 591134.66 | 4183621.35 | RES | 150.62 |
| 112 | 591133.75 | 4183666.82 | RES | 151.09 |
| 113 | 591163.77 | 4183663.18 | RES | 153.24 |
| 114 | 591211.97 | 4183671.37 | RES | 153.44 |
| 115 | 591236.52 | 4183664.09 | RES | 155.69 |
| 116 | 591269.26 | 4183671.37 | RES | 158.48 |
| 117 | 591296.55 | 4183678.64 | RES | 162.33 |
| 118 | 591223.79 | 4183625.89 | RES | 154.22 |
| 119 | 591248.35 | 4183631.35 | RES | 156.27 |
| 120 | 591270.17 | 4183633.17 | RES | 158.58 |
| 121 | 591298.37 | 4183636.81 | RES | 161.70 |
| 122 | 591325.65 | 4183648.63 | RES | 164.43 |
| 123 | 591358.39 | 4183691.38 | RES | 167.99 |
| 124 | 591362.13 | 4183717.34 | RES | 168.91 |
| 125 | 591353.57 | 4183752.65 | RES | 169.15 |
| 126 | 591339.66 | 4183793.31 | RES | 169.20 |
| 127 | 591319.33 | 4183809.36 | RES | 168.85 |
| 128 | 591292.58 | 4183779.40 | RES | 167.38 |
| 129 | 591304.35 | 4183745.16 | RES | 167.76 |
| 130 | 591316.12 | 4183721.62 | RES | 168.56 |
| 131 | 591255.13 | 4183719.48 | RES | 160.59 |
| 132 | 591231.59 | 4183731.25 | RES | 160.40 |
| 133 | 591224.10 | 4183760.14 | RES | 159.77 |
| 134 | 591214.47 | 4183783.68 | RES | 159.42 |
| 135 | 591165.25 | 4183763.35 | RES | 153.91 |
| 136 | 591181.30 | 4183739.81 | RES | 153.66 |
| 137 | 591196.28 | 4183722.69 | RES | 153.68 |
| 138 | 591209.12 | 4183694.87 | RES | 153.61 |
| 139 | 591157.76 | 4183695.94 | RES | 153.66 |
| 140 | 591142.78 | 4183722.69 | RES | 153.96 |
| 141 | 591128.87 | 4183741.95 | RES | 154.02 |
| 142 | 591093.56 | 4183722.69 | RES | 151.58 |
| 143 | 591097.84 | 4183697.01 | RES | 150.96 |
| 144 | 591093.56 | 4183674.54 | RES | 150.19 |

# Receptor Pathway

AERMOD

|     |           |            |         |        |
|-----|-----------|------------|---------|--------|
| 145 | 591103.19 | 4183616.76 | RES     | 149.77 |
| 146 | 591095.70 | 4183586.80 | RES     | 148.26 |
| 147 | 591236.94 | 4183821.13 | RES     | 159.50 |
| 148 | 591258.34 | 4183850.02 | RES     | 161.61 |
| 149 | 591278.67 | 4183873.56 | RES     | 164.35 |
| 150 | 591319.33 | 4183859.65 | RES     | 168.45 |
| 151 | 591342.87 | 4183886.40 | RES     | 169.47 |
| 152 | 591339.66 | 4183917.43 | RES     | 169.51 |
| 153 | 591905.19 | 4183542.05 | NON-RES | 169.87 |
| 154 | 591964.19 | 4183563.32 | NON-RES | 175.21 |
| 155 | 591400.00 | 4183250.00 | P-OS    | 153.61 |
| 156 | 591450.00 | 4183250.00 | P-OS    | 158.47 |
| 157 | 591350.00 | 4183300.00 | P-OS    | 152.03 |
| 158 | 591400.00 | 4183300.00 | P-OS    | 158.13 |
| 159 | 591650.00 | 4183300.00 | P-OS    | 162.33 |
| 160 | 591900.00 | 4183300.00 | P-OS    | 176.05 |
| 161 | 591950.00 | 4183300.00 | P-OS    | 184.20 |
| 162 | 592000.00 | 4183300.00 | P-OS    | 196.34 |
| 163 | 592050.00 | 4183300.00 | P-OS    | 203.44 |
| 164 | 591650.00 | 4183350.00 | P-OS    | 170.32 |
| 165 | 591700.00 | 4183350.00 | P-OS    | 169.34 |
| 166 | 591850.00 | 4183350.00 | P-OS    | 168.32 |
| 167 | 591900.00 | 4183350.00 | P-OS    | 176.78 |
| 168 | 591950.00 | 4183350.00 | P-OS    | 184.64 |
| 169 | 592000.00 | 4183350.00 | P-OS    | 197.69 |
| 170 | 592050.00 | 4183350.00 | P-OS    | 197.45 |
| 171 | 592100.00 | 4183350.00 | P-OS    | 204.64 |
| 172 | 592150.00 | 4183350.00 | P-OS    | 198.47 |
| 173 | 591450.00 | 4183400.00 | P-OS    | 163.75 |
| 174 | 591500.00 | 4183400.00 | P-OS    | 170.95 |
| 175 | 591550.00 | 4183400.00 | P-OS    | 170.91 |
| 176 | 591600.00 | 4183400.00 | P-OS    | 168.34 |
| 177 | 591650.00 | 4183400.00 | P-OS    | 176.66 |
| 178 | 591700.00 | 4183400.00 | P-OS    | 178.39 |
| 179 | 591750.00 | 4183400.00 | P-OS    | 170.97 |
| 180 | 591850.00 | 4183400.00 | P-OS    | 169.08 |
| 181 | 591900.00 | 4183400.00 | P-OS    | 174.20 |
| 182 | 591950.00 | 4183400.00 | P-OS    | 187.96 |

# Receptor Pathway

AERMOD

|     |           |            |      |        |
|-----|-----------|------------|------|--------|
| 183 | 592000.00 | 4183400.00 | P-OS | 191.96 |
| 184 | 592050.00 | 4183400.00 | P-OS | 190.69 |
| 185 | 592100.00 | 4183400.00 | P-OS | 207.40 |
| 186 | 592150.00 | 4183400.00 | P-OS | 204.57 |
| 187 | 591400.00 | 4183450.00 | P-OS | 163.52 |
| 188 | 591450.00 | 4183450.00 | P-OS | 171.75 |
| 189 | 591500.00 | 4183450.00 | P-OS | 176.13 |
| 190 | 591550.00 | 4183450.00 | P-OS | 178.15 |
| 191 | 591600.00 | 4183450.00 | P-OS | 176.89 |
| 192 | 591650.00 | 4183450.00 | P-OS | 184.89 |
| 193 | 591700.00 | 4183450.00 | P-OS | 188.48 |
| 194 | 591750.00 | 4183450.00 | P-OS | 178.78 |
| 195 | 591800.00 | 4183450.00 | P-OS | 168.22 |
| 196 | 591850.00 | 4183450.00 | P-OS | 168.12 |
| 197 | 591900.00 | 4183450.00 | P-OS | 171.38 |
| 198 | 591950.00 | 4183450.00 | P-OS | 178.45 |
| 199 | 592000.00 | 4183450.00 | P-OS | 181.60 |
| 200 | 592050.00 | 4183450.00 | P-OS | 186.26 |
| 201 | 592100.00 | 4183450.00 | P-OS | 199.31 |
| 202 | 592150.00 | 4183450.00 | P-OS | 209.26 |
| 203 | 591400.00 | 4183500.00 | P-OS | 169.10 |
| 204 | 591450.00 | 4183500.00 | P-OS | 176.83 |
| 205 | 591500.00 | 4183500.00 | P-OS | 180.38 |
| 206 | 591550.00 | 4183500.00 | P-OS | 187.84 |
| 207 | 591600.00 | 4183500.00 | P-OS | 189.39 |
| 208 | 591650.00 | 4183500.00 | P-OS | 193.45 |
| 209 | 591700.00 | 4183500.00 | P-OS | 193.53 |
| 210 | 591750.00 | 4183500.00 | P-OS | 186.92 |
| 211 | 591800.00 | 4183500.00 | P-OS | 178.69 |
| 212 | 591850.00 | 4183500.00 | P-OS | 167.90 |
| 213 | 591900.00 | 4183500.00 | P-OS | 169.89 |
| 214 | 591950.00 | 4183500.00 | P-OS | 173.91 |
| 215 | 592000.00 | 4183500.00 | P-OS | 185.39 |
| 216 | 592050.00 | 4183500.00 | P-OS | 193.64 |
| 217 | 592100.00 | 4183500.00 | P-OS | 199.83 |
| 218 | 592150.00 | 4183500.00 | P-OS | 209.55 |
| 219 | 591950.00 | 4183550.00 | P-OS | 173.49 |
| 220 | 592000.00 | 4183550.00 | P-OS | 179.64 |

# Receptor Pathway

AERMOD

|     |           |            |        |        |
|-----|-----------|------------|--------|--------|
| 221 | 592050.00 | 4183550.00 | P-OS   | 186.19 |
| 222 | 592100.00 | 4183550.00 | P-OS   | 194.10 |
| 223 | 592150.00 | 4183550.00 | P-OS   | 200.17 |
| 224 | 592000.00 | 4183600.00 | P-OS   | 174.11 |
| 225 | 592050.00 | 4183600.00 | P-OS   | 177.72 |
| 226 | 592100.00 | 4183600.00 | P-OS   | 183.17 |
| 227 | 592150.00 | 4183600.00 | P-OS   | 188.55 |
| 228 | 592000.00 | 4183650.00 | P-OS   | 175.18 |
| 229 | 592050.00 | 4183650.00 | P-OS   | 176.70 |
| 230 | 592100.00 | 4183650.00 | P-OS   | 178.99 |
| 231 | 592150.00 | 4183650.00 | P-OS   | 182.38 |
| 232 | 592000.00 | 4183700.00 | P-OS   | 183.93 |
| 233 | 592050.00 | 4183700.00 | P-OS   | 183.92 |
| 234 | 592100.00 | 4183700.00 | P-OS   | 183.15 |
| 235 | 592150.00 | 4183700.00 | P-OS   | 183.99 |
| 236 | 592000.00 | 4183750.00 | P-OS   | 193.99 |
| 237 | 592050.00 | 4183750.00 | P-OS   | 196.86 |
| 238 | 592100.00 | 4183750.00 | P-OS   | 196.74 |
| 239 | 592150.00 | 4183750.00 | P-OS   | 199.05 |
| 240 | 592000.00 | 4183800.00 | P-OS   | 202.60 |
| 241 | 592050.00 | 4183800.00 | P-OS   | 209.46 |
| 242 | 592100.00 | 4183800.00 | P-OS   | 210.23 |
| 243 | 592150.00 | 4183800.00 | P-OS   | 213.93 |
| 244 | 592000.00 | 4183850.00 | P-OS   | 197.28 |
| 245 | 592050.00 | 4183850.00 | P-OS   | 209.78 |
| 246 | 592100.00 | 4183850.00 | P-OS   | 223.64 |
| 247 | 592150.00 | 4183850.00 | P-OS   | 222.26 |
| 248 | 592000.00 | 4183900.00 | P-OS   | 191.68 |
| 249 | 592050.00 | 4183900.00 | P-OS   | 206.72 |
| 250 | 592100.00 | 4183900.00 | P-OS   | 215.71 |
| 251 | 592150.00 | 4183900.00 | P-OS   | 214.25 |
| 252 | 592000.00 | 4183950.00 | P-OS   | 191.57 |
| 253 | 592050.00 | 4183950.00 | P-OS   | 200.75 |
| 254 | 592100.00 | 4183950.00 | P-OS   | 201.07 |
| 255 | 592150.00 | 4183950.00 | P-OS   | 211.13 |
| 256 | 592000.00 | 4184000.00 | UCART1 | 190.92 |
| 257 | 592050.00 | 4184000.00 | UCART1 | 193.08 |
| 258 | 592100.00 | 4184000.00 | UCART1 | 203.72 |

# Receptor Pathway

AERMOD

|     |           |            |        |        |
|-----|-----------|------------|--------|--------|
| 259 | 592150.00 | 4184000.00 | UCART1 | 221.76 |
| 260 | 592000.00 | 4184050.00 | UCART1 | 199.19 |
| 261 | 592050.00 | 4184050.00 | UCART1 | 197.68 |
| 262 | 592100.00 | 4184050.00 | UCART1 | 209.52 |
| 263 | 592150.00 | 4184050.00 | UCART1 | 230.25 |
| 264 | 591199.97 | 4183807.49 | RES    | 158.88 |
| 265 | 591183.76 | 4183822.29 | RES    | 158.18 |
| 266 | 591215.48 | 4183857.54 | RES    | 160.12 |
| 267 | 591222.53 | 4183876.57 | RES    | 161.63 |
| 268 | 591250.02 | 4183904.77 | RES    | 163.91 |
| 269 | 591285.98 | 4183925.21 | RES    | 166.15 |
| 270 | 591300.78 | 4183921.69 | RES    | 167.47 |
| 271 | 591149.92 | 4183786.34 | RES    | 154.31 |
| 272 | 591139.35 | 4183809.60 | RES    | 155.02 |
| 273 | 591154.15 | 4183841.32 | RES    | 156.79 |
| 274 | 591182.35 | 4183884.33 | RES    | 158.08 |
| 275 | 591190.10 | 4183901.25 | RES    | 158.74 |
| 276 | 591207.02 | 4183928.03 | RES    | 160.08 |
| 277 | 591227.47 | 4183961.87 | RES    | 161.64 |
| 278 | 591246.50 | 4183992.89 | RES    | 164.70 |
| 279 | 591275.40 | 4183980.90 | RES    | 166.88 |
| 280 | 591312.76 | 4183980.20 | RES    | 169.44 |
| 281 | 591343.08 | 4183985.13 | RES    | 172.09 |
| 282 | 591372.69 | 4183989.36 | RES    | 174.89 |
| 283 | 591404.41 | 4184000.64 | RES    | 177.90 |
| 284 | 591434.02 | 4184009.10 | RES    | 180.79 |
| 285 | 591462.21 | 4184001.35 | RES    | 183.61 |
| 286 | 591486.18 | 4184021.79 | RES    | 184.81 |
| 287 | 591475.61 | 4184052.10 | RES    | 184.90 |
| 288 | 591454.46 | 4184053.51 | RES    | 183.50 |
| 289 | 591415.69 | 4184048.58 | RES    | 179.90 |
| 290 | 591385.37 | 4184037.30 | RES    | 176.48 |
| 291 | 591348.72 | 4184031.66 | RES    | 173.34 |
| 292 | 591326.86 | 4184023.20 | RES    | 170.65 |
| 293 | 591290.91 | 4184025.32 | RES    | 168.15 |
| 294 | 591262.01 | 4184039.42 | RES    | 166.26 |
| 295 | 591263.42 | 4184073.25 | RES    | 168.00 |
| 296 | 591268.35 | 4184111.32 | RES    | 170.59 |

# Receptor Pathway

AERMOD

|     |           |            |     |        |
|-----|-----------|------------|-----|--------|
| 297 | 591273.29 | 4184142.34 | RES | 173.84 |
| 298 | 591290.91 | 4184187.46 | RES | 179.11 |
| 299 | 591328.27 | 4184166.31 | RES | 180.86 |
| 300 | 591345.19 | 4184148.68 | RES | 182.21 |
| 301 | 591345.90 | 4184112.73 | RES | 184.07 |
| 302 | 591382.55 | 4184101.45 | RES | 184.23 |
| 303 | 591391.72 | 4184133.17 | RES | 184.11 |
| 304 | 591388.19 | 4184159.26 | RES | 183.54 |
| 305 | 591371.28 | 4184183.23 | RES | 182.28 |
| 306 | 591345.90 | 4184200.14 | RES | 180.70 |
| 307 | 591320.52 | 4184234.69 | RES | 180.45 |
| 308 | 591358.59 | 4184257.25 | RES | 183.76 |
| 309 | 591393.83 | 4184260.07 | RES | 186.29 |
| 310 | 591424.85 | 4184269.93 | RES | 188.32 |
| 311 | 591459.39 | 4184267.12 | RES | 190.72 |
| 312 | 591491.82 | 4184266.41 | RES | 192.23 |
| 313 | 591522.14 | 4184255.13 | RES | 194.49 |
| 314 | 591551.04 | 4184248.79 | RES | 197.08 |
| 315 | 591551.74 | 4184293.20 | RES | 197.06 |
| 316 | 591531.30 | 4184302.36 | RES | 194.98 |
| 317 | 591496.76 | 4184309.41 | RES | 192.71 |
| 318 | 591469.97 | 4184308.00 | RES | 191.05 |
| 319 | 591436.13 | 4184305.89 | RES | 188.91 |
| 320 | 591410.75 | 4184306.59 | RES | 186.59 |
| 321 | 591386.08 | 4184300.95 | RES | 185.52 |
| 322 | 591350.83 | 4184298.13 | RES | 183.41 |
| 323 | 591328.27 | 4184281.21 | RES | 181.39 |
| 324 | 591303.60 | 4184272.75 | RES | 181.04 |
| 325 | 591272.58 | 4184252.31 | RES | 180.35 |
| 326 | 591285.98 | 4184322.10 | RES | 189.34 |
| 327 | 591247.91 | 4184311.53 | RES | 189.15 |
| 328 | 591159.79 | 4184364.40 | RES | 200.58 |
| 329 | 591207.02 | 4184312.94 | RES | 192.52 |
| 330 | 591216.89 | 4184275.57 | RES | 188.51 |
| 331 | 591226.76 | 4184243.15 | RES | 184.08 |
| 332 | 591251.43 | 4184203.67 | RES | 178.82 |
| 333 | 591239.45 | 4184168.42 | RES | 175.46 |
| 334 | 591229.58 | 4184142.34 | RES | 173.11 |

# Receptor Pathway

AERMOD

|     |           |            |        |        |
|-----|-----------|------------|--------|--------|
| 335 | 591222.53 | 4184102.86 | RES    | 170.02 |
| 336 | 591215.48 | 4184078.89 | RES    | 167.96 |
| 337 | 591216.89 | 4184042.24 | RES    | 165.90 |
| 338 | 591205.61 | 4184018.97 | RES    | 164.13 |
| 339 | 591194.33 | 4183982.31 | RES    | 161.88 |
| 340 | 591173.18 | 4183961.17 | RES    | 160.76 |
| 341 | 591159.79 | 4183932.26 | RES    | 159.09 |
| 342 | 591132.86 | 4184298.55 | RES    | 201.70 |
| 343 | 591137.00 | 4184256.25 | RES    | 199.64 |
| 344 | 591126.22 | 4184228.88 | RES    | 199.35 |
| 345 | 591120.41 | 4184199.02 | RES    | 197.78 |
| 346 | 591104.66 | 4184092.86 | RES    | 183.59 |
| 347 | 591100.51 | 4184065.49 | RES    | 179.32 |
| 348 | 591101.34 | 4184032.31 | RES    | 174.55 |
| 349 | 591093.87 | 4184002.46 | RES    | 170.49 |
| 350 | 591089.73 | 4183960.16 | RES    | 166.31 |
| 351 | 591088.90 | 4183926.15 | RES    | 162.79 |
| 352 | 591084.75 | 4183897.95 | RES    | 160.21 |
| 353 | 591075.63 | 4183877.22 | RES    | 159.33 |
| 354 | 591097.19 | 4183827.46 | RES    | 155.29 |
| 355 | 591114.61 | 4183854.00 | RES    | 156.14 |
| 356 | 591132.03 | 4183879.71 | RES    | 157.08 |
| 357 | 591146.95 | 4183907.08 | RES    | 157.62 |
| 358 | 592000.00 | 4184050.00 | UCART1 | 199.19 |
| 359 | 592050.00 | 4184050.00 | UCART1 | 197.68 |
| 360 | 592100.00 | 4184050.00 | UCART1 | 209.52 |
| 361 | 592150.00 | 4184050.00 | UCART1 | 230.25 |
| 362 | 592000.00 | 4184100.00 | UCART1 | 223.76 |
| 363 | 592050.00 | 4184100.00 | UCART1 | 209.86 |
| 364 | 592100.00 | 4184100.00 | UCART1 | 206.75 |
| 365 | 592150.00 | 4184100.00 | UCART1 | 222.09 |
| 366 | 592000.00 | 4184150.00 | UCART1 | 244.86 |
| 367 | 592050.00 | 4184150.00 | UCART1 | 229.91 |
| 368 | 592100.00 | 4184150.00 | UCART1 | 218.95 |
| 369 | 592150.00 | 4184150.00 | UCART1 | 223.80 |
| 370 | 592000.00 | 4184200.00 | UCART1 | 262.21 |
| 371 | 592050.00 | 4184200.00 | UCART1 | 257.27 |
| 372 | 592100.00 | 4184200.00 | UCART1 | 241.92 |

# Receptor Pathway

AERMOD

|     |           |            |        |        |
|-----|-----------|------------|--------|--------|
| 373 | 592150.00 | 4184200.00 | UCART1 | 230.14 |
| 374 | 592200.00 | 4184200.00 | UCART1 | 243.70 |
| 375 | 592000.00 | 4184250.00 | UCART1 | 267.62 |
| 376 | 592050.00 | 4184250.00 | UCART1 | 264.59 |
| 377 | 592100.00 | 4184250.00 | UCART1 | 247.81 |
| 378 | 592150.00 | 4184250.00 | UCART1 | 239.22 |
| 379 | 592200.00 | 4184250.00 | UCART1 | 248.39 |
| 380 | 592000.00 | 4184300.00 | UCART1 | 268.25 |
| 381 | 592050.00 | 4184300.00 | UCART1 | 266.76 |
| 382 | 592100.00 | 4184300.00 | UCART1 | 256.21 |
| 383 | 592150.00 | 4184300.00 | UCART1 | 252.39 |
| 384 | 592200.00 | 4184300.00 | UCART1 | 252.20 |
| 385 | 591250.00 | 4184350.00 | UCART1 | 200.26 |
| 386 | 591300.00 | 4184350.00 | UCART1 | 194.42 |
| 387 | 591350.00 | 4184350.00 | UCART1 | 195.29 |
| 388 | 591400.00 | 4184350.00 | UCART1 | 192.24 |
| 389 | 591450.00 | 4184350.00 | UCART1 | 190.50 |
| 390 | 591500.00 | 4184350.00 | UCART1 | 197.04 |
| 391 | 591550.00 | 4184350.00 | UCART1 | 206.89 |
| 392 | 592000.00 | 4184350.00 | UCART1 | 269.97 |
| 393 | 592050.00 | 4184350.00 | UCART1 | 268.75 |
| 394 | 592100.00 | 4184350.00 | UCART1 | 256.74 |
| 395 | 592150.00 | 4184350.00 | UCART1 | 241.18 |
| 396 | 592200.00 | 4184350.00 | UCART1 | 238.83 |
| 397 | 591250.00 | 4184400.00 | UCART1 | 216.58 |
| 398 | 591300.00 | 4184400.00 | UCART1 | 213.63 |
| 399 | 591350.00 | 4184400.00 | UCART1 | 219.27 |
| 400 | 591400.00 | 4184400.00 | UCART1 | 209.92 |
| 401 | 591450.00 | 4184400.00 | UCART1 | 202.07 |
| 402 | 591500.00 | 4184400.00 | UCART1 | 207.18 |
| 403 | 591550.00 | 4184400.00 | UCART1 | 221.50 |
| 404 | 591600.00 | 4184400.00 | UCART1 | 237.56 |
| 405 | 591650.00 | 4184400.00 | UCART1 | 236.00 |
| 406 | 591700.00 | 4184400.00 | UCART1 | 248.53 |
| 407 | 591750.00 | 4184400.00 | UCART1 | 274.64 |
| 408 | 591800.00 | 4184400.00 | UCART1 | 268.17 |
| 409 | 591850.00 | 4184400.00 | UCART1 | 249.11 |
| 410 | 591900.00 | 4184400.00 | UCART1 | 243.49 |

# Receptor Pathway

AERMOD

|     |           |            |        |        |
|-----|-----------|------------|--------|--------|
| 411 | 591950.00 | 4184400.00 | UCART1 | 257.47 |
| 412 | 592000.00 | 4184400.00 | UCART1 | 262.44 |
| 413 | 592050.00 | 4184400.00 | UCART1 | 257.43 |
| 414 | 592100.00 | 4184400.00 | UCART1 | 253.78 |
| 415 | 592150.00 | 4184400.00 | UCART1 | 241.69 |
| 416 | 592200.00 | 4184400.00 | UCART1 | 221.50 |
| 417 | 591250.00 | 4184450.00 | UCART1 | 226.20 |
| 418 | 591300.00 | 4184450.00 | UCART1 | 234.93 |
| 419 | 591350.00 | 4184450.00 | UCART1 | 240.31 |
| 420 | 591400.00 | 4184450.00 | UCART1 | 227.55 |
| 421 | 591450.00 | 4184450.00 | UCART1 | 214.22 |
| 422 | 591500.00 | 4184450.00 | UCART1 | 219.86 |
| 423 | 591550.00 | 4184450.00 | UCART1 | 229.96 |
| 424 | 591600.00 | 4184450.00 | UCART1 | 245.10 |
| 425 | 591650.00 | 4184450.00 | UCART1 | 262.56 |
| 426 | 591700.00 | 4184450.00 | UCART1 | 264.65 |
| 427 | 591750.00 | 4184450.00 | UCART1 | 275.86 |
| 428 | 591800.00 | 4184450.00 | UCART1 | 272.03 |
| 429 | 591850.00 | 4184450.00 | UCART1 | 259.07 |
| 430 | 591900.00 | 4184450.00 | UCART1 | 253.04 |
| 431 | 591950.00 | 4184450.00 | UCART1 | 248.41 |
| 432 | 592000.00 | 4184450.00 | UCART1 | 250.38 |
| 433 | 592050.00 | 4184450.00 | UCART1 | 238.80 |
| 434 | 592100.00 | 4184450.00 | UCART1 | 246.58 |
| 435 | 592150.00 | 4184450.00 | UCART1 | 234.48 |
| 436 | 592200.00 | 4184450.00 | UCART1 | 211.98 |
| 437 | 591300.00 | 4184500.00 | UCART1 | 240.18 |
| 438 | 591350.00 | 4184500.00 | UCART1 | 250.80 |
| 439 | 591400.00 | 4184500.00 | UCART1 | 243.20 |
| 440 | 591450.00 | 4184500.00 | UCART1 | 235.02 |
| 441 | 591500.00 | 4184500.00 | UCART1 | 238.17 |
| 442 | 591550.00 | 4184500.00 | UCART1 | 248.53 |
| 443 | 591600.00 | 4184500.00 | UCART1 | 256.78 |
| 444 | 591650.00 | 4184500.00 | UCART1 | 269.83 |
| 445 | 591700.00 | 4184500.00 | UCART1 | 257.30 |
| 446 | 591750.00 | 4184500.00 | UCART1 | 265.74 |
| 447 | 591800.00 | 4184500.00 | UCART1 | 273.13 |
| 448 | 591850.00 | 4184500.00 | UCART1 | 265.08 |

# Receptor Pathway

AERMOD

|     |           |            |        |        |
|-----|-----------|------------|--------|--------|
| 449 | 591900.00 | 4184500.00 | UCART1 | 249.05 |
| 450 | 591950.00 | 4184500.00 | UCART1 | 235.00 |
| 451 | 592000.00 | 4184500.00 | UCART1 | 236.38 |
| 452 | 592050.00 | 4184500.00 | UCART1 | 224.63 |
| 453 | 592100.00 | 4184500.00 | UCART1 | 231.33 |
| 454 | 592150.00 | 4184500.00 | UCART1 | 227.01 |
| 455 | 592200.00 | 4184500.00 | UCART1 | 205.74 |
| 456 | 591350.00 | 4184550.00 | UCART1 | 253.24 |
| 457 | 591400.00 | 4184550.00 | UCART1 | 254.86 |
| 458 | 591450.00 | 4184550.00 | UCART1 | 249.01 |
| 459 | 591500.00 | 4184550.00 | UCART1 | 246.65 |
| 460 | 591550.00 | 4184550.00 | UCART1 | 256.96 |
| 461 | 591600.00 | 4184550.00 | UCART1 | 272.46 |
| 462 | 591650.00 | 4184550.00 | UCART1 | 268.17 |
| 463 | 591700.00 | 4184550.00 | UCART1 | 246.36 |
| 464 | 591750.00 | 4184550.00 | UCART1 | 251.74 |
| 465 | 591800.00 | 4184550.00 | UCART1 | 258.15 |
| 466 | 591850.00 | 4184550.00 | UCART1 | 256.15 |
| 467 | 591900.00 | 4184550.00 | UCART1 | 244.06 |
| 468 | 591950.00 | 4184550.00 | UCART1 | 228.15 |
| 469 | 592000.00 | 4184550.00 | UCART1 | 221.39 |
| 470 | 592050.00 | 4184550.00 | UCART1 | 210.28 |
| 471 | 592100.00 | 4184550.00 | UCART1 | 213.98 |
| 472 | 592150.00 | 4184550.00 | UCART1 | 217.00 |
| 473 | 592200.00 | 4184550.00 | UCART1 | 201.52 |
| 474 | 591400.00 | 4184600.00 | UCART1 | 245.21 |
| 475 | 591450.00 | 4184600.00 | UCART1 | 234.26 |
| 476 | 591500.00 | 4184600.00 | UCART1 | 237.88 |
| 477 | 591550.00 | 4184600.00 | UCART1 | 250.19 |
| 478 | 591600.00 | 4184600.00 | UCART1 | 265.27 |
| 479 | 591650.00 | 4184600.00 | UCART1 | 260.71 |
| 480 | 591700.00 | 4184600.00 | UCART1 | 238.66 |
| 481 | 591750.00 | 4184600.00 | UCART1 | 230.61 |
| 482 | 591800.00 | 4184600.00 | UCART1 | 241.82 |
| 483 | 591850.00 | 4184600.00 | UCART1 | 249.35 |
| 484 | 591900.00 | 4184600.00 | UCART1 | 236.04 |
| 485 | 591950.00 | 4184600.00 | UCART1 | 224.52 |
| 486 | 592000.00 | 4184600.00 | UCART1 | 208.35 |

# Receptor Pathway

AERMOD

|     |           |            |        |        |
|-----|-----------|------------|--------|--------|
| 487 | 592050.00 | 4184600.00 | UCART1 | 205.11 |
| 488 | 592100.00 | 4184600.00 | UCART1 | 191.69 |
| 489 | 592150.00 | 4184600.00 | UCART1 | 196.98 |
| 490 | 591700.00 | 4184650.00 | UCART1 | 231.14 |
| 491 | 591750.00 | 4184650.00 | UCART1 | 214.60 |
| 492 | 591800.00 | 4184650.00 | UCART1 | 233.16 |
| 493 | 591850.00 | 4184650.00 | UCART1 | 241.57 |
| 494 | 591900.00 | 4184650.00 | UCART1 | 228.48 |
| 495 | 591950.00 | 4184650.00 | UCART1 | 208.39 |
| 496 | 592000.00 | 4184650.00 | UCART1 | 195.01 |
| 497 | 592050.00 | 4184650.00 | UCART1 | 186.31 |
| 498 | 592200.00 | 4183410.00 | UCART1 | 198.35 |
| 499 | 592200.00 | 4183460.00 | UCART1 | 208.53 |
| 500 | 592200.00 | 4183510.00 | UCART1 | 213.08 |
| 501 | 592250.00 | 4183510.00 | UCART1 | 210.74 |
| 502 | 592200.00 | 4183560.00 | UCART1 | 208.14 |
| 503 | 592250.00 | 4183560.00 | UCART1 | 214.69 |
| 504 | 592200.00 | 4183610.00 | UCART1 | 200.25 |
| 505 | 592250.00 | 4183610.00 | UCART1 | 207.18 |
| 506 | 592200.00 | 4183660.00 | UCART1 | 190.07 |
| 507 | 592250.00 | 4183660.00 | UCART1 | 196.07 |
| 508 | 592200.00 | 4183710.00 | UCART1 | 185.12 |
| 509 | 592250.00 | 4183710.00 | UCART1 | 185.83 |
| 510 | 592200.00 | 4183760.00 | UCART1 | 193.63 |
| 511 | 592250.00 | 4183760.00 | UCART1 | 189.86 |
| 512 | 592200.00 | 4183810.00 | UCART1 | 201.76 |
| 513 | 592250.00 | 4183810.00 | UCART1 | 196.20 |
| 514 | 592200.00 | 4183860.00 | UCART1 | 209.58 |
| 515 | 592250.00 | 4183860.00 | UCART1 | 203.51 |
| 516 | 592200.00 | 4183910.00 | UCART1 | 218.74 |
| 517 | 592250.00 | 4183910.00 | UCART1 | 221.73 |
| 518 | 592200.00 | 4183960.00 | UCART1 | 233.53 |
| 519 | 592250.00 | 4183960.00 | UCART1 | 245.36 |
| 520 | 592200.00 | 4184010.00 | UCART1 | 245.42 |
| 521 | 592250.00 | 4184010.00 | UCART1 | 258.04 |
| 522 | 592200.00 | 4184060.00 | UCART1 | 244.89 |
| 523 | 592250.00 | 4184060.00 | UCART1 | 248.31 |
| 524 | 592200.00 | 4184110.00 | UCART1 | 229.56 |

# Receptor Pathway

AERMOD

|     |           |            |        |        |
|-----|-----------|------------|--------|--------|
| 525 | 592250.00 | 4184110.00 | UCART1 | 245.70 |
| 526 | 592200.00 | 4184160.00 | UCART1 | 241.02 |
| 527 | 592250.00 | 4184160.00 | UCART1 | 255.98 |
| 528 | 592200.00 | 4184210.00 | UCART1 | 244.08 |
| 529 | 592250.00 | 4184210.00 | UCART1 | 256.83 |

## Plant Boundary Receptors

### Receptor Groups

| Record Number | Group ID | Group Description                               |
|---------------|----------|-------------------------------------------------|
| 1             | NON-RES  | Non-Residential                                 |
| 2             | RES      | Residential Recptors                            |
| 3             | P-OS     | Park - Open Space Grid Receptors                |
| 4             | UCART1   | Receptors generated from Uniform Cartesian Grid |

# Meteorology Pathway

AERMOD

## Met Input Data

### Surface Met Data

Filename: ..\Concord\CONCORD13\_17.SFC

Format Type: Default AERMET format

### Profile Met Data

Filename: ..\Concord\CONCORD13\_17.PFL

Format Type: Default AERMET format

### Wind Speed



Wind Speeds are Vector Mean (Not Scalar Means)

### Wind Direction

Rotation Adjustment [deg]:

### Potential Temperature Profile

Base Elevation above MSL (for Primary Met Tower): 23.60 [m]

### Meteorological Station Data

| Stations  | Station No. | Year | X Coordinate [m] | Y Coordinate [m] | Station Name   |
|-----------|-------------|------|------------------|------------------|----------------|
| Surface   |             | 2013 |                  |                  | Concord        |
| Upper Air |             | 2013 |                  |                  | OAKLAND/WSO AP |
| On-Site   |             | 2013 |                  |                  |                |

## Data Period

### Data Period to Process

Start Date: 1/1/2013

Start Hour: 1

End Date: 12/31/2017

End Hour: 24

## Wind Speed Categories

| Stability Category | Wind Speed [m/s] | Stability Category | Wind Speed [m/s] |
|--------------------|------------------|--------------------|------------------|
| A                  | 1.54             | D                  | 8.23             |
| B                  | 3.09             | E                  | 10.8             |
| C                  | 5.14             | F                  | No Upper Bound   |

## Sensitive Receptor

Martin Hills Ranch Residence  
Construction HRA

### PM10 - Concentration -

| Averaging Period | Rank |
|------------------|------|
| PERIOD           |      |
| PERIOD           |      |
| PERIOD           |      |
| PERIOD           |      |
| PERIOD           |      |
| PERIOD           |      |
| PERIOD           |      |
| PERIOD           |      |
| PERIOD           |      |

## Summary

ect

### Group: DPM

|    | Units  | Receptor ID | X (m)     | Y (m)      | ZELEV (m) | ZFLAG (m) | ZHILL (m) | Peak Date, Start Hour |
|----|--------|-------------|-----------|------------|-----------|-----------|-----------|-----------------------|
| 16 | ug/m^3 |             | 591380.44 | 4183592.39 | 169.19    | 0.00      | 277.07    |                       |
| 34 | ug/m^3 |             | 591380.44 | 4183550.58 | 167.56    | 0.00      | 277.07    |                       |
| 77 | ug/m^3 |             | 591603.41 | 4183346.51 | 165.13    | 0.00      | 277.07    |                       |
| 33 | ug/m^3 |             | 591587.18 | 4183349.60 | 165.05    | 0.00      | 277.07    |                       |
| 23 | ug/m^3 | MEIR        | 591770.37 | 4183378.97 | 168.38    | 0.00      | 277.07    |                       |
| 19 | ug/m^3 |             | 591817.52 | 4183388.25 | 168.47    | 0.00      | 277.07    |                       |
| 32 | ug/m^3 | MEIW        | 591905.19 | 4183542.05 | 169.87    | 0.00      | 277.07    |                       |
| 52 | ug/m^3 |             | 591462.21 | 4184001.35 | 183.61    | 0.00      | 277.07    |                       |
| 92 | ug/m^3 |             | 591486.18 | 4184021.79 | 184.81    | 0.00      | 277.07    |                       |

## Sensitive Receptor

Martin Hills Ranch Residence  
Construction HRA

### PM10 - Concentration -

| Averaging Period | Rank |
|------------------|------|
| PERIOD           |      |
| PERIOD           |      |
| PERIOD           |      |
| PERIOD           |      |
| PERIOD           |      |
| PERIOD           |      |
| PERIOD           |      |
| PERIOD           |      |
| PERIOD           |      |

## Summary

ect

### Group: PM25

|    | Units  | Receptor ID | X (m)     | Y (m)      | ZELEV (m) | ZFLAG (m) | ZHILL (m) | Peak Date, Start Hour |
|----|--------|-------------|-----------|------------|-----------|-----------|-----------|-----------------------|
| 35 | ug/m^3 |             | 591380.44 | 4183592.39 | 169.19    | 0.00      | 277.07    |                       |
| 40 | ug/m^3 |             | 591380.44 | 4183550.58 | 167.56    | 0.00      | 277.07    |                       |
| 19 | ug/m^3 |             | 591603.41 | 4183346.51 | 165.13    | 0.00      | 277.07    |                       |
| 38 | ug/m^3 |             | 591587.18 | 4183349.60 | 165.05    | 0.00      | 277.07    |                       |
| 31 | ug/m^3 | MEIR        | 591770.37 | 4183378.97 | 168.38    | 0.00      | 277.07    |                       |
| 24 | ug/m^3 |             | 591817.52 | 4183388.25 | 168.47    | 0.00      | 277.07    |                       |
| 16 | ug/m^3 | MEIW        | 591905.19 | 4183542.05 | 169.87    | 0.00      | 277.07    |                       |
| 30 | ug/m^3 |             | 591462.21 | 4184001.35 | 183.61    | 0.00      | 277.07    |                       |
| 14 | ug/m^3 |             | 591486.18 | 4184021.79 | 184.81    | 0.00      | 277.07    |                       |

HARP2 - HRACalc (dated 22118) 2/4/2026 11:08:10 AM - Output Log

GLCs loaded successfully

Pollutants loaded successfully

\*\*\*\*\*

#### RISK SCENARIO SETTINGS

Receptor Type: Resident

Scenario: Cancer

Calculation Method: HighEnd

\*\*\*\*\*

#### EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25

Total Exposure Duration: 1.03

#### Exposure Duration Bin Distribution

3rd Trimester Bin: 0.25

0<2 Years Bin: 1.03

2<9 Years Bin: 0

2<16 Years Bin: 0

16<30 Years Bin: 0

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: RMP

\*\*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 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 saved to: F:\Jobs\59600001\HARP\_Jan2026\MEIRriskCancerRisk.csv

HRA ran successfully

\*HARP - HRACalc v22118 2/4/2026 11:08:10 AM - Cancer Risk - Input File: F:\Jobs\59600001\HARP\_Jan2026\MEIRiskHRAInput.hra

| UTME      | UTMN       | Pollutant   | Conc ( $\mu\text{g}/\text{m}^3$ ) | Risk     | Scenario                      | Inhalation Risk |
|-----------|------------|-------------|-----------------------------------|----------|-------------------------------|-----------------|
| 591770.37 | 4183378.97 | DieselExhPM | 0.00923                           | 1.69E-06 | 1.03YrCancerRMP_Inh_FAH16to70 | 1.69E-06        |

HARP2 - HRACalc (dated 22118) 2/4/2026 11:10:17 AM - Output Log

GLCs loaded successfully

Pollutants loaded successfully

\*\*\*\*\*

#### RISK SCENARIO SETTINGS

Receptor Type: Worker

Scenario: Cancer

Calculation Method: Derived

\*\*\*\*\*

#### EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 16

Total Exposure Duration: 1.28

#### 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: 1.28

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: Moderate8HR

\*\*Worker Adjustment Factors\*\*

NOTE: The worker adjustment factors below are only used for cancer assessments. However, the GLC adjustment factor is also applied to 8-hr noncancer chronic assessments.

Worker adjustments factors enabled: YES

GLC adjustment factor: 4.2

Exposure frequency: 250

**\*\*Fraction at time at home\*\***

3rd Trimester to 16 years: OFF

16 years to 70 years: OFF

\*\*\*\*\*

#### 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 saved to: F:\Jobs\59600001\HARP\_Jan2026\MEIWriskCancerRisk.csv

HRA ran successfully

\*HARP - HRACalc v22118 2/4/2026 11:10:17 AM - Cancer Risk - Input File: F:\Jobs\59600001\HARP\_Jan2026\MEIWriskHRAInput.hra

| UTME      | UTMN       | Pollutant   | Conc ( $\mu\text{g}/\text{m}^3$ ) | Risk     | Scenario                | Inhalation Risk |
|-----------|------------|-------------|-----------------------------------|----------|-------------------------|-----------------|
| 591905.19 | 4183542.05 | DieselExhPM | 0.01632                           | 2.27E-07 | 1.28YrCancerDerived_Inh | 2.27E-07        |

## Danville Martin Hills Residential Project

### 5.3. Construction Vehicles

#### 5.3.1 Unmitigated

| Phase Name            | Trip Type    | One-Way Trips per Day | Miles per Trip | Days | VMT   | Vehicle Mix   |
|-----------------------|--------------|-----------------------|----------------|------|-------|---------------|
| Site Preparation      | Worker       | 18                    | 11.7           | 20   | 4095  | LDA,LDT1,LDT2 |
| Site Preparation      | Vendor       | 2                     | 8.4            | 20   | 336   | HHDT,MHDT     |
| Site Preparation      | Hauling      | 0                     | 20             | 20   | 0     | HHDT          |
| Site Preparation      | Onsite truck |                       |                |      |       | HHDT          |
| Grading               | Worker       | 20                    | 11.7           | 45   | 10530 | LDA,LDT1,LDT2 |
| Grading               | Vendor       |                       | 8.4            |      |       | HHDT,MHDT     |
| Grading               | Hauling      | 11                    | 20             | 45   | 9680  | HHDT          |
| Grading               | Onsite truck |                       |                |      |       | HHDT          |
| Building Construction | Worker       | 10                    | 11.7           | 230  | 26157 | LDA,LDT1,LDT2 |
| Building Construction | Vendor       | 3                     | 8.4            | 230  | 5576  | HHDT,MHDT     |
| Building Construction | Hauling      | 0                     | 20             | 230  | 0     | HHDT          |
| Building Construction | Onsite truck |                       |                |      |       | HHDT          |
| Paving                | Worker       | 15                    | 11.7           | 20   | 3510  | LDA,LDT1,LDT2 |
| Paving                | Vendor       | 20                    | 8.4            | 20   | 3360  | HHDT,MHDT     |
| Paving                | Hauling      | 0                     | 20             | 20   | 0     | HHDT          |
| Paving                | Onsite truck |                       |                |      |       | HHDT          |
| Architectural Coating | Worker       | 2                     | 11.7           | 20   | 455   | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor       |                       | 8.4            |      |       | HHDT,MHDT     |
| Architectural Coating | Hauling      | 0                     | 20             | 20   | 0     | HHDT          |
| Architectural Coating | Onsite truck |                       |                |      |       | HHDT          |

| mpg   | gal/mile | EMFAC Vehicle Category | Vehicle Cat/MT TOTALS |       |
|-------|----------|------------------------|-----------------------|-------|
| 31.41 | 0.032    | LDA                    | LDA,LDT1,L            | 44746 |
| 26.09 | 0.038    | LDT1                   | HHDT,MHD              | 9272  |
| 25.58 | 0.039    | LDT2                   | MHDT                  | 0     |
| 8.55  | 0.117    | MHDT                   | HHDT                  | 9680  |
| 6.03  | 0.166    | HHDT                   |                       | 63699 |

(County-Specific Fuel Efficiency)

Gasoline for Light Duty and Diesel for Heavy Duty - Consistent with CalEEMod Assumptions

| Vehicle Category | Contra Cos | 2026      |
|------------------|------------|-----------|
|                  | Fuel       |           |
|                  | Efficiency | Fuel      |
|                  | (MPG)      | (gallons) |
| LDA,LDT1,LDT2    | 27.29      | 1640      |
| HHDT,MHDT        | 7.29       | 1272      |
| MHDT             | 8.55       | 0         |
| HHDT             | 6.03       | 1605      |
|                  |            | 4,517     |

## Danville Martin Hills Residential Project

### Construction Equipment - Unmitigated

18.5 gal/bhp-hr

0.054 bhp-hr/gal

| Phase Name            | Equipment Type            | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor | Days | bhp-hr | gallons |
|-----------------------|---------------------------|-----------|-------------|----------------|---------------|------------|-------------|------|--------|---------|
| Site Preparation      | Rubber Tired Dozers       | Diesel    | Average     | 3              | 8             | 367        | 0.4         | 20   | 70464  | 3805    |
| Site Preparation      | Tractors/Loaders/Backhoes | Diesel    | Average     | 4              | 8             | 84         | 0.37        | 20   | 19891  | 1074    |
| Grading               | Graders                   | Diesel    | Average     | 1              | 8             | 148        | 0.41        | 45   | 21845  | 1180    |
| Grading               | Excavators                | Diesel    | Average     | 2              | 8             | 36         | 0.38        | 45   | 9850   | 532     |
| Grading               | Tractors/Loaders/Backhoes | Diesel    | Average     | 2              | 8             | 84         | 0.37        | 45   | 22378  | 1208    |
| Grading               | Scrapers                  | Diesel    | Average     | 2              | 8             | 423        | 0.48        | 45   | 146189 | 7894    |
| Grading               | Rubber Tired Dozers       | Diesel    | Average     | 1              | 8             | 367        | 0.4         | 45   | 52848  | 2854    |
| Building Construction | Forklifts                 | Diesel    | Average     | 3              | 8             | 82         | 0.2         | 230  | 90528  | 4889    |
| Building Construction | Generator Sets            | Diesel    | Average     | 1              | 8             | 14         | 0.74        | 230  | 19062  | 1029    |
| Building Construction | Cranes                    | Diesel    | Average     | 1              | 7             | 367        | 0.29        | 230  | 171352 | 9253    |
| Building Construction | Welders                   | Diesel    | Average     | 1              | 8             | 46         | 0.45        | 230  | 38088  | 2057    |
| Building Construction | Tractors/Loaders/Backhoes | Diesel    | Average     | 3              | 7             | 84         | 0.37        | 230  | 150116 | 8106    |
| Paving                | Pavers                    | Diesel    | Average     | 2              | 8             | 81         | 0.42        | 20   | 10886  | 588     |
| Paving                | Paving Equipment          | Diesel    | Average     | 2              | 8             | 89         | 0.36        | 20   | 10253  | 554     |
| Paving                | Rollers                   | Diesel    | Average     | 2              | 8             | 36         | 0.38        | 20   | 4378   | 236     |
| Architectural Coating | Air Compressors           | Diesel    | Average     | 1              | 6             | 37         | 0.48        | 20   | 2131   | 115     |
|                       |                           |           |             |                |               |            |             | 335  | 0      | 45374   |