

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: Moody Landfill Fire

**From: 3/17/23
9:00 AM**

**To: 3/18/23
11:00 AM**



The predominant pollutant observed at monitoring stations is small particulate matter: PM-2.5. The "Concentration Range" column in the tables below shows minimum and maximum levels. The "Period Average" column is the most useful value and represents a full 24-hour day. The PM-2.5 Period Average is compared to the "24-Hour Average" column in the Community Action Thresholds Table that is attached.

Note: line graphs show PM-2.5 in units of mg/m³ while tables on pages 1 and 2 show PM-2.5 in ug/m³. (1 mg/m³ = 1,000 ug/m³)

| EPA Air Quality Station 03 | | | | | | |
|----------------------------|---------|--------------------------|------------------------|----------------------|---------------------------------------|---|
| Instrument | Analyte | Action Level Exceedance? | Concentration Range | Period Average | Action Level | Action Level Basis |
| MultiRAE 3 | VOC | No | 0-0ppb | 0.0 ppb | 9000 ppb | AEGL-1, 8-hr |
| | CO | No | 0-0ppm | 0.00 ppm | 27 ppm | AEGL-2, 8-hr |
| | LEL | No | 0-0% | 0.00 % | 10% | 29 CFR 1910.146, Confined Spaces |
| | HCN | No | 0-1.5ppm | 0.0179 ppm | 2 ppm | AEGL-1, 1-hr |
| DustTrak 3 | PM-2.5 | No | 0-178ug/m ³ | 12 ug/m ³ | See Community Action Threshold Levels | PM2.5 Community Action Threshold Levels |

| EPA Air Quality Station 07 | | | | | | |
|----------------------------|---------|--------------------------|------------------------|----------------------|---------------------------------------|---|
| Instrument | Analyte | Action Level Exceedance? | Concentration Range | Period Average | Action Level | Action Level Basis |
| MultiRAE 4 | VOC | No | 0-40ppb | 0.0255 ppb | 9000 ppb | AEGL-1, 8-hr |
| | CO | No | 0-0ppm | 0.00 ppm | 27 ppm | AEGL-2, 8-hr |
| | LEL | No | 0-0% | 0.00 % | 10% | 29 CFR 1910.146, Confined Spaces |
| | HCN | No | 0-1.5ppm | 0.1178 ppm | 2 ppm | AEGL-1, 1-hr |
| DustTrak 4 | PM-2.5 | No | 1-118ug/m ³ | 14 ug/m ³ | See Community Action Threshold Levels | PM2.5 Community Action Threshold Levels |

Notes:

| | |
|--------|--|
| % | Percent |
| < | Less than |
| > | Greater than |
| AEGL | Acute Exposure Guideline Levels for Airborne Chemicals |
| C/m | Counts (ionization events) per minute |
| mg/m3 | milligrams per cubic meter |
| min | Minute |
| PAC | Protective Action Criteria |
| PEL | Permissible exposure limit |
| ppb | Parts per billion |
| ppm | Parts per million |
| PM | Particulate matter |
| SOG | Standard Operating Guidelines |
| SPM | Single Point Monitor |
| TEEL | Temporary Emergency Exposure Limit |
| TLV | Threshold limit value |
| µg/m³ | Micrograms per cubic meter |
| µrem/h | Microrem per hour |
| α | Alpha radiation (Ludlum 2241-2 can measure α under specific configuration) |
| β | Beta radiation (Ludlum 2241-2 can measure β under specific configuration) |

Comments: All station period averages under 35 µg/m³

| PM _{2.5} (Particulate Matter ≤ 2.5 microns) Community Action Threshold Levels | | | | |
|--|--------------------------------------|---------------------------------------|--|--|
| 1-Hour Average (µg/m ³) | 24-Hour Average (µg/m ³) | Level of Health Concern | Meaning | Action |
| 0.0 - 40.0 | 0.0-12.0 | Good | Air Quality is considered satisfactory, and air pollution poses little or no risk. | Implement communication plan. |
| 40.1 - 80.0 | 12.1 - 35.4 | Moderate | Air quality is acceptable; however, for some pollutants there may be a moderate health concern for a very small number of people who are unusually sensitive to air pollution. | Issue public announcement about health effects. Stay out of areas with visible smoke. |
| 80.1 - 175.0 | 35.5 - 55.4 | Unhealthy for Sensitive Groups | Members of sensitive groups may experience health effects. The general public is not likely to be affected. | Recommend evacuation or shelter-in-place for sensitive populations. |
| 175.1 - 300.0 | 55.5 - 150.4 | Unhealthy | Everyone may begin to experience health effects; members of sensitive groups may experience more serious health effects. | Consider closing schools and cancelling outdoor events. Recommend shelter-in-place for affected neighborhoods. |
| 300.1 - 500.0 | 150.5 - 250.4 | Very Unhealthy | Health warnings of emergency conditions. The entire population is more likely to be affected. | Consider closing schools and cancel all outdoor events. Recommend shelter-in-place and/or evacuation for affected neighborhoods. |
| > 500.0 | > 250.5 | Hazardous | Health alert: everyone may experience more serious health effects. | Recommend closing schools & cancel outdoor events. Recommend closing workplaces and evacuating affected neighborhoods. |

This table is only designed for respirable particulates ≤ 2.5 microns in diameter averaged over a time period of either 1 hour or 24 hours

When comparing airborne particulate data to this table, ensure that the correct size fraction, average, and units are used (1,000 µg/m³ is equivalent to 1 mg/m³)