

Air Monitoring Summary Tables

The tables below summarize preliminary air monitoring data collected using EPA AreaRAE Pro and DustTrak DRX instruments.

Project Name: Morris Industrial Fire Site
Date/Time: 06/27/2022 09:39 to 06/30/2022 16:51

| Northeast Air Monitoring Station | | | | | |
|------------------------------------|--|---|---|-----------------------------------|-------------------------------|
| Instrument | Analyte | Morris Industrial Fire Public Health Screening Level ¹ | Public Health Screening Level Exceeded? | 1-Hour Period Concentration Range | Average of All 1-Hour Periods |
| DustTrak (S/N: 8533153912) | PM _{2.5} (mg/m ³) | 0.025 mg/m ³ | Yes (see comment 2) | 0.006 to 0.074 | 0.013 |
| | PM ₁₀ (mg/m ³) | 0.05 mg/m ³ | Yes (see comment 2) | 0.006 to 0.122 | 0.014 |
| AreaRAE Pro (S/N: W01A00002413) | VOC (ppm) | 0.5 ppm | No | 0.0 to 0.0 | 0.0 |
| | CO (ppm) | -- | No | 0.0 to 0.0 | 0.0 |
| | H ₂ S (ppm) | 0.1 ppm | No | 0.0 to 0.0 | 0.0 |
| | HF (ppm) | 0.2 ppm | Yes (see comment 3) | 0.0 to 0.4 | 0.0 |

| Northwest Air Monitoring Station | | | | | |
|------------------------------------|--|---|---|-----------------------------------|-------------------------------|
| Instrument | Analyte | Morris Industrial Fire Public Health Screening Level ¹ | Public Health Screening Level Exceeded? | 1-Hour Period Concentration Range | Average of All 1-Hour Periods |
| DustTrak (S/N: 8533153917) | PM _{2.5} (mg/m ³) | 0.025 mg/m ³ | No | 0.000 to 0.021 | 0.009 |
| | PM ₁₀ (mg/m ³) | 0.05 mg/m ³ | No | 0.001 to 0.026 | 0.009 |
| AreaRAE Pro (S/N: W01A00002412) | VOC (ppm) | 0.5 ppm | No | 0.0 to 0.1 | 0.0 |
| | CO (ppm) | -- | No | 0.0 to 0.3 | 0.0 |
| | H ₂ S (ppm) | 0.1 ppm | No | 0.0 to 0.0 | 0.0 |
| | HF (ppm) | 0.2 ppm | Yes (see comment 4) | 0.0 to 0.2 | 0.0 |

| Southeast Air Monitoring Station | | | | | |
|------------------------------------|--|---|---|-----------------------------------|-------------------------------|
| Instrument | Analyte | Morris Industrial Fire Public Health Screening Level ¹ | Public Health Screening Level Exceeded? | 1-Hour Period Concentration Range | Average of All 1-Hour Periods |
| DustTrak (S/N: 8533153910) | PM _{2.5} (mg/m ³) | 0.025 mg/m ³ | No | 0.006 to 0.020 | 0.012 |
| | PM ₁₀ (mg/m ³) | 0.05 mg/m ³ | No | 0.006 to 0.021 | 0.013 |
| AreaRAE Pro (S/N: W01A00002410) | VOC (ppm) | 0.5 ppm | No | 0.0 to 0.1 | 0.0 |
| | CO (ppm) | -- | No | 0.0 to 0.2 | 0.0 |
| | H ₂ S (ppm) | 0.1 ppm | No | 0.0 to 0.0 | 0.0 |
| | HF (ppm) | 0.2 ppm | No | 0.0 to 0.0 | 0.0 |

Notes: See last page.

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The tables below summarize preliminary air monitoring data collected using EPA AreaRAE Pro and DustTrak DRX instruments.

Project Name: Morris Industrial Fire Site
Date/Time: 06/27/2022 09:39 to 06/30/2022 16:51

| Southwest Air Monitoring Station | | | | | |
|---|--|---|---|-----------------------------------|-------------------------------|
| Instrument | Analyte | Morris Industrial Fire Public Health Screening Level ¹ | Public Health Screening Level Exceeded? | 1-Hour Period Concentration Range | Average of All 1-Hour Periods |
| DustTrak (S/N: 8533154003) | PM _{2.5} (mg/m ³) | 0.025 mg/m ³ | No | 0.004 to 0.019 | 0.010 |
| | PM ₁₀ (mg/m ³) | 0.05 mg/m ³ | No | 0.005 to 0.020 | 0.011 |
| AreaRAE Pro (S/N: W01A00002411) | VOC (ppm) | 0.5 ppm | No | 0.0 to 0.1 | 0.0 |
| | CO (ppm) | -- | No | 0.0 to 0.0 | 0.0 |
| | H ₂ S (ppm) | 0.1 ppm | No | 0.0 to 0.0 | 0.0 |
| | HF (ppm) | 0.2 ppm | No | 0.0 to 0.0 | 0.0 |

| Comments |
|--|
| Air monitoring measurements have been averaged over a 1-hour time period and summarized above. |
| Start and stop times for each air monitoring instrument varies. The monitoring period is based on the earliest start time and latest stop time out of |
| Air monitoring is not performed during inclement weather conditions/rain and thunderstorms. |
| 1 - Morris Industrial Fire Public Health Screening Levels are based on 1-hour time-weighted averages and were established by Agency for Toxic Substances and Disease Registry (ATSDR). |
| 2 - PM _{2.5} and PM ₁₀ 1-hour TWAs were greater than the Action Level at the downwind Northeast Station on June 29, 2022 from 6:50 through 7:53. |
| 3 - HF 1-hr TWAs were greater than the Action Level at the downwind Northeast Station on June 28, 2022 from 7:51 through 9:27 and on June 30, 2022 from 7:07 through 9:09. A mobile instrument, the Single Point Monitor (SPM) Flex, was used to verify the elevated HF measurements during each period. The SPM Flex measured 0 ppm for HF and confirmed HF sensor drift in the AreaRAE Pro instrument. |
| 4 - HF 1-hr TWAs were greater than the Action Level at the downwind Northwest Station on June 28, 2022 from 7:14 through 8:15. A mobile instrument, the SPM Flex, was used to verify the elevated HF measurements during each period. The SPM Flex measured 0 ppm for HF and confirmed HF sensor drift in the AreaRAE Pro instrument. |
| Notes: °F - Degrees Fahrenheit CO - Carbon Monoxide ERRS - Emergency and Rapid Response Services H ₂ S - Hydrogen Sulfide HF - Hydrogen Fluoride LEL - Lower Explosive Limit mg/m ³ - Milligrams per cubic meter PM _{2.5} - Particles that are 2.5 micrometers and smaller PM ₁₀ - Particles that are 10 micrometers and smaller ppm - Parts per million S/N - Serial number VOC - Volatile organic compounds |

Air Quality Index Categories and Recommendations

| Air Quality Index Category | 24-Hour Avg. PM _{2.5} Concentrations (ug/m ³) | 24-Hour Avg. PM ₁₀ Concentrations (ug/m ³) | Recommended Actions |
|--------------------------------|--|---|---|
| Good | 0 to 12.0 | 0 to 54 | None |
| Moderate | 12.1 to 35.4 | 55 to 154 | People with heart or lung disease, older adults (65 and up), and children: Consider reducing prolonged or heavy exertion. |
| Unhealthy for Sensitive Groups | 35.5 to 55.4 | 155 to 254 | People with heart or lung disease, older adults (65 and up), and children: Reduce prolonged or heavy exertion. |
| Unhealthy | 55.5 to 150.4 | 255 to 354 | People with heart or lung disease, older adults (65 and up), and children: Avoid prolonged or heavy exertion. Everyone else should reduce prolonged or heavy exertion. |
| Very Unhealthy | 150.5 to 250.4 | 355 to 424 | People with heart or lung disease, older adults (65 and up), and children: Avoid all physical activity outdoors. Everyone else should avoid prolonged or heavy exertion. |
| Hazardous | 250.5 to 500.4 | 425 to 605 | Everyone should avoid all physical activity outdoors. People with heart or lung disease, older adults (65 and up), and children should remain indoors and keep activity levels low. |

Comment: Illinois Statewide Average 24-hour PM_{2.5} Concentration in 2020: 19.9 ug/m³

Comment: Off-site monitoring locations include both upwind and downwind locations. Elevated PM_{2.5} and PM₁₀ concentrations may represent other sources.

You can access daily average PM_{2.5} data for fixed monitoring locations here:

<http://www.epa.state.il.us/air/pm25/index.html>. Yesterday's average is available and it looks like you can access data for the trailing 12 months.

You can also get there by visiting the landing page for the Air Quality Index, Ozone, and PM Data:

<https://www2.illinois.gov/epa/topics/air-quality/outdoor-air/Pages/default.aspx>.