

Table 1

Community Roving Air Monitoring Results Summary Table
 East Palestine Derailment Emergency Response
 East Palestine, Ohio
 Monitoring Period: 05/31/2023 07:53 to 05/31/2023 16:32

We are in the process of ensuring this document is accessible to all audiences. If you need assistance accessing this document, or any material on the EPA East Palestine, Ohio emergency response web pages, please contact the Region 5 Public Information Officer on-call at: R5_EastPalestine@epa.gov

| Location | Date/Time | VOC (ppm) | PM _{2.5} (mg/m ³) ¹ | PM ₁₀ (mg/m ³) ¹ |
|----------|-----------------|------------------|---|--|
| | | Screening Levels | | |
| | | 0.5 ppm | 0.035 mg/m ³ | 0.070 mg/m ³ |
| PCR-N-03 | 5/31/2023 8:03 | 0 | 0.025 | 0.029 |
| | 5/31/2023 11:19 | 0 | 0.014 | 0.016 |
| | 5/31/2023 16:21 | 0 | 0.013 | 0.015 |
| PCR-N-04 | 5/31/2023 8:53 | 0 | 0.024 | 0.028 |
| | 5/31/2023 12:01 | 0 | 0.023 | 0.035 |
| PCR-N-05 | 5/31/2023 9:01 | 0 | 0.029 | 0.04 |
| | 5/31/2023 12:05 | 0 | 0.017 | 0.021 |
| | 5/31/2023 15:58 | 0 | 0.012 | 0.016 |
| PCR-N-06 | 5/31/2023 8:41 | 0 | 0.022 | 0.026 |
| | 5/31/2023 11:54 | 0 | 0.017 | 0.022 |
| PCR-N-07 | 5/31/2023 8:20 | 0 | 0.023 | 0.027 |
| | 5/31/2023 11:23 | 0 | 0.022 | 0.031 |
| | 5/31/2023 15:49 | 0 | 0.011 | 0.014 |
| | 5/31/2023 16:24 | 0 | 0.012 | 0.016 |
| PCR-N-08 | 5/31/2023 8:24 | 0 | 0.023 | 0.025 |
| | 5/31/2023 11:26 | 0 | 0.02 | 0.025 |
| | 5/31/2023 16:27 | 0 | 0.018 | 0.026 |
| PCR-N-09 | 5/31/2023 8:31 | 0 | 0.022 | 0.027 |
| | 5/31/2023 11:32 | 0 | 0.015 | 0.018 |
| | 5/31/2023 16:32 | 0 | 0.012 | 0.015 |
| PCR-N-10 | 5/31/2023 8:37 | 0 | 0.023 | 0.025 |
| | 5/31/2023 11:43 | 0 | 0.017 | 0.02 |
| PCR-N-11 | 5/31/2023 9:14 | 0 | 0.022 | 0.025 |
| | 5/31/2023 12:05 | 0 | 0.017 | 0.021 |
| | 5/31/2023 12:16 | 0 | 0.017 | 0.02 |
| PCR-N-12 | 5/31/2023 9:20 | 0 | 0.021 | 0.023 |
| | 5/31/2023 12:22 | 0 | 0.016 | 0.019 |
| PCR-N-13 | 5/31/2023 8:47 | 0 | 0.025 | 0.031 |
| | 5/31/2023 11:57 | 0 | 0.019 | 0.024 |
| PCR-S-01 | 5/31/2023 11:07 | 0 | 0.015 | 0.017 |
| | 5/31/2023 16:11 | 0 | 0.02 | 0.027 |
| PCR-S-04 | 5/31/2023 11:02 | 0 | 0.017 | 0.019 |
| | 5/31/2023 16:06 | 0 | 0.013 | 0.017 |
| PCR-S-05 | 5/31/2023 10:46 | 0 | 0.02 | 0.023 |
| PCR-S-06 | 5/31/2023 10:13 | 0 | 0.022 | 0.026 |
| | 5/31/2023 15:53 | 0 | 0.015 | 0.018 |
| PCR-S-07 | 5/31/2023 10:05 | 0 | 0.021 | 0.023 |

We are in the process of ensuring this document is accessible to all audiences. If you need assistance accessing this document, or any materials on the EPA East Palestine, Ohio emergency response webpages, please contact the Region 5 Public Information Officer on-call r5_eastpalestine@epa.gov

Table 1
 Community Roving Air Monitoring Results Summary Table
 East Palestine Derailment Emergency Response
 East Palestine, Ohio
 Monitoring Period: 05/31/2023 07:53 to 05/31/2023 16:32

| Location | Date/Time | VOC (ppm) | PM _{2.5} (mg/m ³) ¹ | PM ₁₀ (mg/m ³) ¹ |
|------------|-----------------|------------------|---|--|
| | | Screening Levels | | |
| | | 0.5 ppm | 0.035 mg/m ³ | 0.070 mg/m ³ |
| PCR-S-08 | 5/31/2023 10:01 | 0 | 0.026 | 0.033 |
| | 5/31/2023 15:45 | 0 | 0.02 | 0.033 |
| PCR-S-09 | 5/31/2023 10:53 | 0 | 0.018 | 0.021 |
| | 5/31/2023 16:02 | 0 | 0.012 | 0.014 |
| PCR-S-10 | 5/31/2023 7:53 | 0 | 0.032 | 0.042 |
| | 5/31/2023 11:14 | 0 | 0.015 | 0.017 |
| | 5/31/2023 16:16 | 0 | 0.013 | 0.017 |
| PCR-S-14 | 5/31/2023 9:41 | 0 | 0.021 | 0.023 |
| | 5/31/2023 15:26 | 0 | 0.017 | 0.024 |
| PCR-S-15 | 5/31/2023 9:50 | 0 | 0.026 | 0.037 |
| | 5/31/2023 15:36 | 0 | 0.013 | 0.017 |
| PCR-S-16 | 5/31/2023 9:57 | 0 | 0.026 | 0.033 |
| Station 02 | 5/31/2023 8:40 | | 0.025 | 0.04 |
| Station 06 | 5/31/2023 8:28 | | 0.028 | 0.036 |
| | 5/31/2023 15:38 | | 0.018 | 0.183 |
| Station 07 | 5/31/2023 8:52 | | 0.036 | 0.051 |
| Station 08 | 5/31/2023 8:11 | | 0.042 | 0.043 |

Notes:

Highlighted indicate detections above screening levels

Grey cells indicate no measurement was collected for that specific parameter

1 - Site-Specific Public Health Screening Levels for particulate matter are based on 24-hour time-weighted averages (TWAs). Fixed discrete monitoring readings are discrete readings, and so do not represent conditions over a full 24-hour period. Screening levels were modified on March 16, 2023 to reflect updated operation procedures on when to apply mitigation methods to reduce dust. Action levels set by health departments have not

* - the screening level is the instrument's limit of detection.

¹ - A secondary instrument was used to evaluate CO and reported CO as non-detected. The elevated CO measurem

Cl - chlorine

F₂ - fluorine

HCl - hydrogen chloride

mg/m³ - milligrams per cubic meter

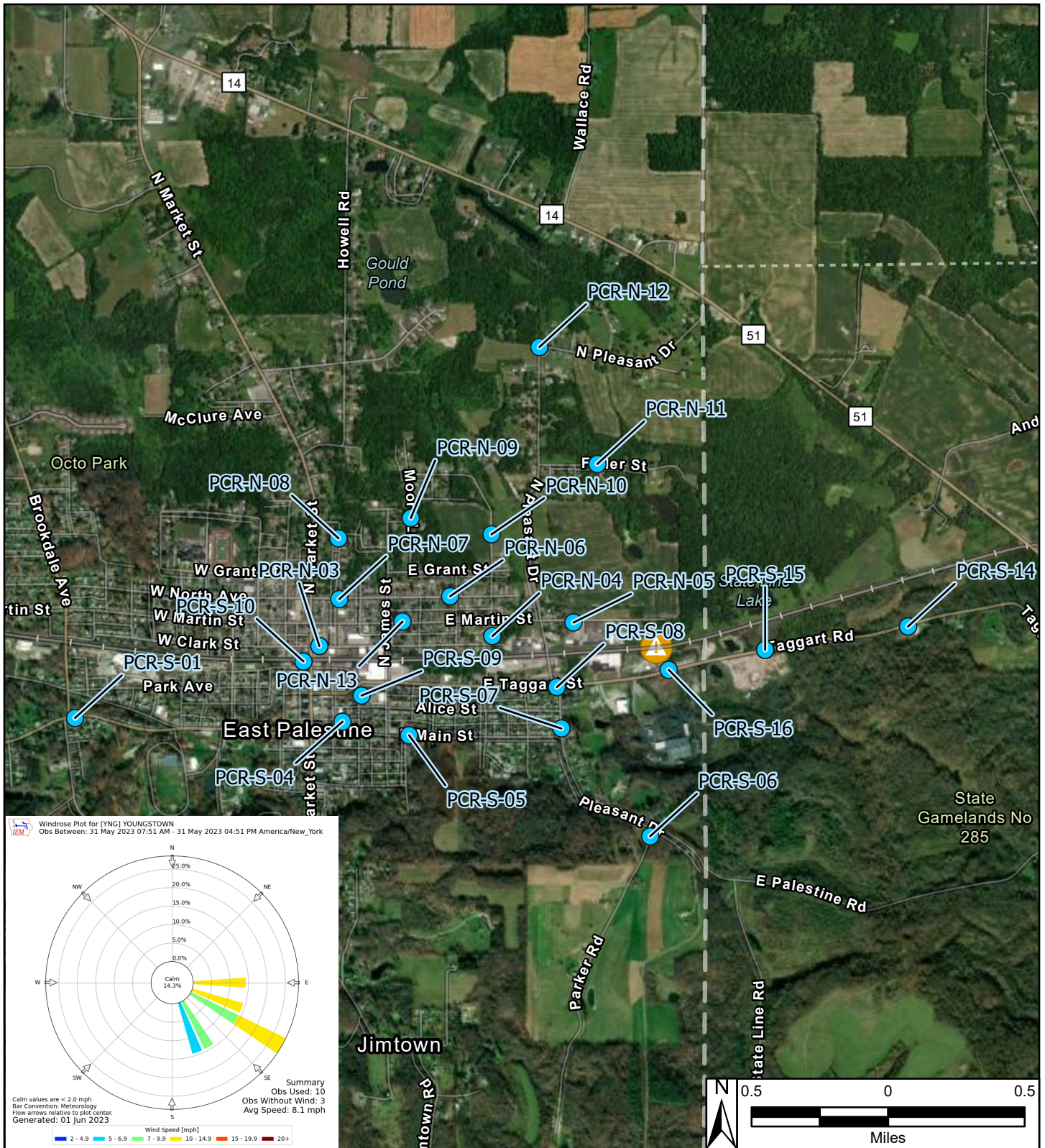
PM_{2.5} - particles that are 2.5 micrometers and smaller

PM₁₀ - particles that are 10 micrometers and smaller

ppm - parts per million

TWA - time-weighted average

VOC - volatile organic compounds



Reference Map



Legend

- Roaming Air Monitoring Locations
- ⚠ Derailment Location
- One Mile Radius

East Palestine Derailment ER Site
 East Palestine, Columbiana County, OH 44413

Figure 1
Roaming Air Monitoring
Community Locations



Prepared For: EPA

Prepared By: Tetra Tech Inc.