

Table 1
Community Roving Air Monitoring Results Summary Table
East Palestine Derailment Emergency Response
East Palestine, Ohio
Monitoring Period: 03/12/2023 09:02 to 03/13/2023 16:09

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Location	Date/Time	LEL (%)	CO (ppm)	H ₂ S (ppm)	VOC (ppm)	PM _{2.5} (mg/m ³) ¹	PM ₁₀ (mg/m ³) ¹	HCN (ppm)*
		Screening Levels						
		5%	9 ppm	0.1 ppm	0.5 ppm	0.035 mg/m ³	0.035 mg/m ³	1 ppm
PCR-N-03	3/12/2023 11:59	0	0	0	0	0.005	0.006	0
	3/12/2023 14:23	0	0	0	0	0.013	0.013	0
	3/12/2023 16:35	0	0	0	0	0.009	0.009	0
	3/13/2023 8:15	0	0	0	0	0.008	0.009	0
	3/13/2023 14:38	0	0	0	0	0.012	0.012	0
	3/13/2023 14:42	0	0	0	0	0.007	0.007	0
PCR-N-04	3/12/2023 12:38	0	0	0	0	0.006	0.008	0
	3/12/2023 14:51	0	0	0	0	0.007	0.008	0
	3/12/2023 17:02	0	0	0	0	0.006	0.007	0
	3/13/2023 11:43	0	0	0	0	0.012	0.012	0
	3/13/2023 15:45	0	0	0	0	0.007	0.007	0
PCR-N-05	3/12/2023 9:02	0	0	0	0	0.011	0.011	0
	3/12/2023 12:43	0	0	0	0	0.005	0.005	0
	3/12/2023 14:55	0	0	0	0	0.01	0.01	0
	3/12/2023 17:05	0	0	0	0	0.007	0.008	0
	3/13/2023 11:50	0	0	0	0	0.009	0.01	0
PCR-N-06	3/12/2023 12:30	0	0	0	0	0.007	0.008	0
	3/12/2023 14:43	0	0	0	0	0.008	0.008	0
	3/12/2023 16:55	0	0	0	0	0.007	0.007	0
	3/13/2023 11:30	0	0	0	0	0.008	0.008	0
	3/13/2023 15:51	0	0	0	0	0.009	0.01	0

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		Screening Levels						
		5%	9 ppm	0.1 ppm	0.5 ppm	0.035 mg/m ³	0.035 mg/m ³	1 ppm
PCR-N-07	3/12/2023 12:06	0	0	0	0	0.008	0.01	0
	3/12/2023 14:26	0	0	0	0	0.008	0.008	0
	3/12/2023 16:37	0	0	0	0	0.009	0.009	0
	3/13/2023 8:24	0	0	0	0	0.008	0.009	0
	3/13/2023 14:51	0	0	0	0	0.009	0.009	0
PCR-N-08	3/12/2023 12:10	0	0	0	0	0.009	0.009	0
	3/12/2023 14:29	0	0	0	0	0.008	0.009	0
	3/12/2023 16:41	0	0	0	0	0.012	0.012	0
	3/13/2023 8:43	0	0	0	0	0.007	0.007	0
	3/13/2023 15:02	0	0	0	0	0.006	0.008	0
PCR-N-09	3/12/2023 12:16	0	0	0	0	0.007	0.008	0
	3/12/2023 14:33	0	0	0	0	0.006	0.007	0
	3/12/2023 16:45	0	0	0	0	0.012	0.012	0
	3/13/2023 8:49	0	0	0	0	0.007	0.007	0
	3/13/2023 15:14	0	0	0	0	0.011	0.011	0
PCR-N-10	3/12/2023 12:23	0	0	0	0	0.005	0.005	0
	3/12/2023 14:39	0	0	0	0	0.01	0.01	0
	3/12/2023 16:51	0	0	0	0	0.007	0.008	0
	3/13/2023 11:36	0	0	0	0	0.009	0.01	0
	3/13/2023 16:01	0	0	0	0	0.007	0.008	0
PCR-N-11	3/12/2023 9:10	0	0	0	0	0.008	0.008	0
	3/12/2023 12:47	0	0	0	0	0.007	0.007	0
	3/12/2023 15:01	0	0	0	0	0.009	0.009	0
	3/12/2023 17:09	0	0	0	0	0.007	0.007	0
	3/13/2023 13:28	0	0	0	0	0.007	0.007	0

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		Screening Levels						
		5%	9 ppm	0.1 ppm	0.5 ppm	0.035 mg/m ³	0.035 mg/m ³	1 ppm
PCR-N-12	3/12/2023 9:17	0	0	0	0	0.009	0.015	0
	3/12/2023 12:52	0	0	0	0	0.008	0.008	0
	3/12/2023 15:07	0	0	0	0	0.009	0.01	0
	3/12/2023 17:16	0	0	0	0	0.008	0.01	0
	3/13/2023 13:34	0	0	0	0	0.008	0.008	0
	3/13/2023 16:09	0	0	0	0	0.009	0.009	0
PCR-N-13	3/12/2023 12:34	0	0	0	0	0.007	0.008	0
	3/12/2023 14:46	0	0	0	0	0.006	0.007	0
	3/12/2023 16:58	0	0	0	0	0.012	0.012	0
	3/13/2023 11:21	0	0	0	0	0.007	0.007	0
	3/13/2023 15:21	0	0	0	0	0.011	0.011	0
PCR-S-01	3/12/2023 10:59	0	0	0	0	0.005	0.005	0
	3/12/2023 14:15	0	0	0	0	0.01	0.01	0
	3/12/2023 16:06	0	0	0	0	0.007	0.008	0
	3/12/2023 18:04	0	0	0	0	0.009	0.01	0
	3/13/2023 14:13	0	0	0	0	0.007	0.008	0
PCR-S-04	3/12/2023 10:44	0	0	0	0	0.008	0.008	0
	3/12/2023 14:04	0	0	0	0	0.007	0.007	0
	3/12/2023 15:54	0	0	0	0	0.008	0.008	0
	3/12/2023 17:55	0	0	0	0	0.009	0.01	0
	3/13/2023 9:22	0	0	0	0	0.008	0.01	0
	3/13/2023 14:20	0	0	0	0	0.008	0.008	0
PCR-S-05	3/12/2023 10:36	0	0	0	0	0.009	0.009	0
	3/12/2023 14:02	0	0	0	0	0.008	0.009	0
	3/12/2023 15:51	0	0	0	0	0.009	0.009	0
	3/12/2023 17:52	0	0	0	0	0.009	0.009	0
	3/13/2023 10:55	0	0	0	0	0.008	0.009	0
	3/13/2023 15:36	0	0	0	0	0.012	0.012	0

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		Screening Levels						
		5%	9 ppm	0.1 ppm	0.5 ppm	0.035 mg/m ³	0.035 mg/m ³	1 ppm
PCR-S-06	3/12/2023 10:30	0	0	0	0	0.007	0.007	0
	3/12/2023 13:57	0	0	0	0	0.006	0.008	0
	3/12/2023 15:45	0	0	0	0	0.007	0.008	0
	3/12/2023 17:48	0	0	0	0	0.006	0.007	0
	3/13/2023 12:47	0	0	0	0	0.012	0.012	0
PCR-S-07	3/12/2023 10:23	0	0	0	0	0.007	0.007	0
	3/12/2023 13:53	0	0	0	0	0.011	0.011	0
	3/12/2023 15:42	0	0	0	0	0.005	0.005	0
	3/12/2023 17:43	0	0	0	0	0.01	0.01	0
	3/13/2023 12:37	0	0	0	0	0.007	0.008	0
PCR-S-08	3/12/2023 10:19	0	0	0	0	0.009	0.01	0
	3/12/2023 13:51	0	0	0	0	0.007	0.008	0
	3/12/2023 15:39	0	0	0	0	0.008	0.008	0
	3/12/2023 17:38	0	0	0	0	0.007	0.007	0
	3/13/2023 11:59	0	0	0	0	0.009	0.009	0
PCR-S-09	3/12/2023 10:49	0	0	0	0	0.007	0.007	0
	3/12/2023 14:09	0	0	0	0	0.007	0.007	0
	3/12/2023 15:58	0	0	0	0	0.009	0.015	0
	3/12/2023 17:59	0	0	0	0	0.008	0.008	0
	3/13/2023 11:05	0	0	0	0	0.009	0.01	0
	3/13/2023 15:28	0	0	0	0	0.008	0.01	0
PCR-S-10	3/12/2023 11:31	0	0	0	0	0.008	0.008	0
	3/12/2023 14:19	0	0	0	0	0.009	0.009	0
	3/12/2023 16:24	0	0	0	0	0.007	0.007	0
	3/13/2023 8:03	0	0	0	0	0.007	0.007	0
	3/13/2023 14:29	0	0	0	0	0.009	0.015	0

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		Screening Levels						
		5%	9 ppm	0.1 ppm	0.5 ppm	0.035 mg/m ³	0.035 mg/m ³	1 ppm
PCR-S-14	3/12/2023 9:56	0	0	0	0	0.008	0.008	0
	3/12/2023 13:39	0	0	0	0	0.009	0.01	0
	3/12/2023 15:20	0	0	0	0	0.008	0.01	0
	3/12/2023 17:26	0	0	0	0	0.008	0.008	0
	3/13/2023 13:07	0	0	0	0	0.009	0.009	0
PCR-S-15	3/12/2023 10:03	0	0	0	0	0.008	0.009	0
	3/12/2023 13:43	0	0	0	0	0.009	0.009	0
	3/12/2023 15:25	0	0	0	0	0.009	0.009	0
	3/12/2023 17:28	0	0	0	0	0.008	0.009	0
	3/13/2023 13:03	0	0	0	0	0.012	0.012	0
PCR-S-16	3/12/2023 10:12	0	0	0	0	0.007	0.007	0
	3/12/2023 13:47	0	0	0	0	0.006	0.008	0
	3/12/2023 15:30	0	0	0	0	0.007	0.008	0
	3/12/2023 17:33	0	0	0	0	0.006	0.007	0
	3/13/2023 12:54	0	0	0	0	0.012	0.012	0

See notes on last page.

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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.

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

% - percent

CO - carbon monoxide

H₂S - hydrogen sulfide

HCN - hydrogen cyanide

LEL - lower explosive limit

mg/m³ - milligrams per cubic meter

O₂ - oxygen

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

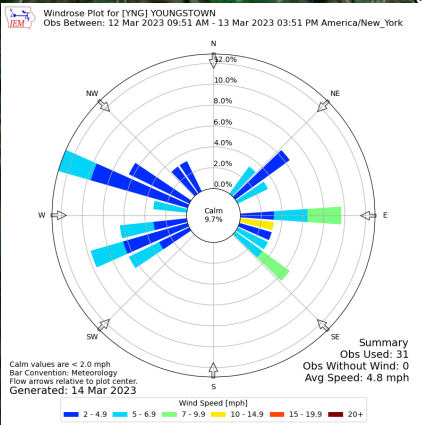
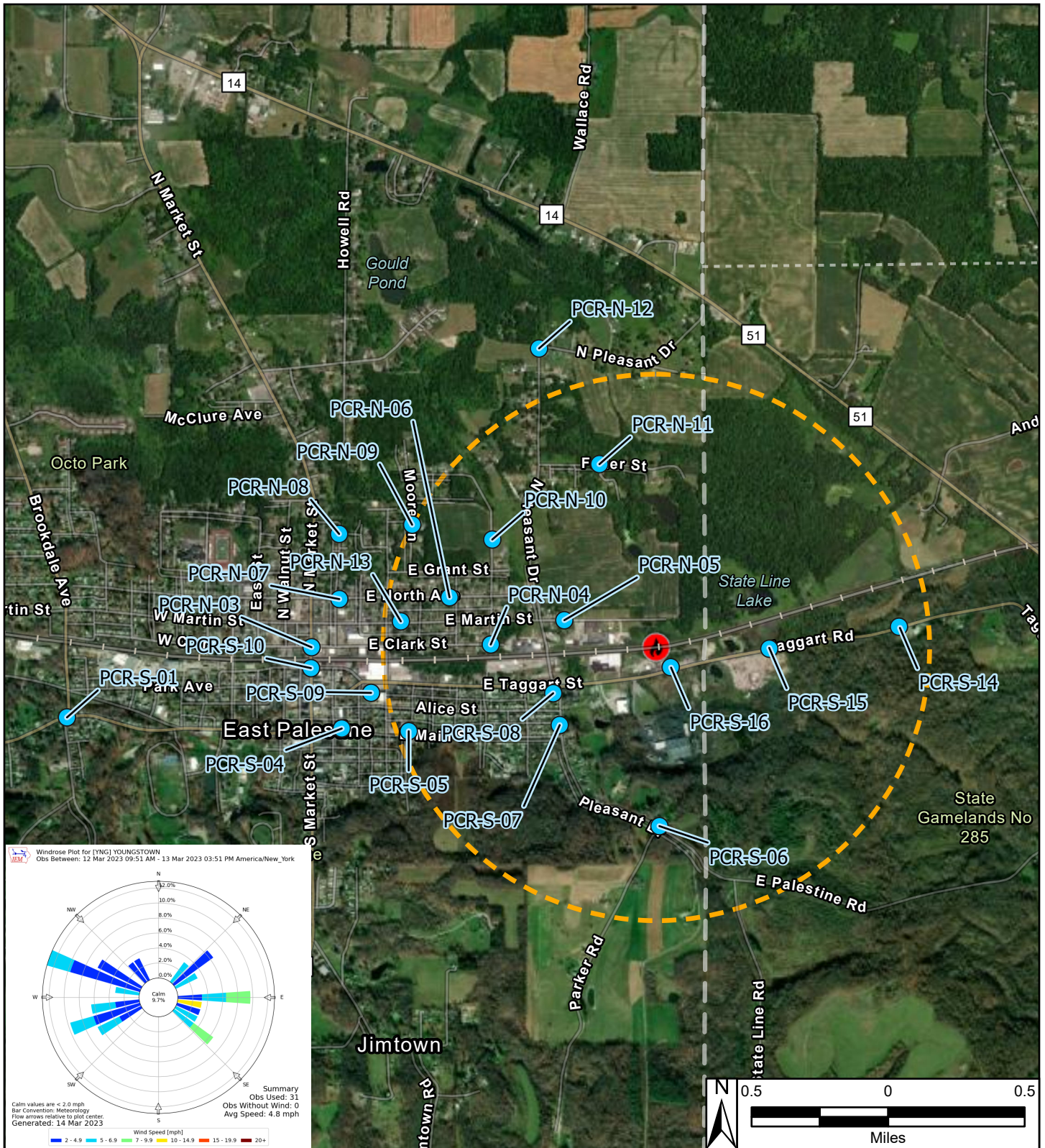
PM₁₀ - particles that are 10 micrometers and smaller

ppm - parts per million

TWA - time-weighted average

VOC - volatile organic compounds

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Legend

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

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.