

Table 1  
Community Roving Air Monitoring Results Summary Table  
East Palestine Derailment Emergency Response  
East Palestine, Ohio  
Monitoring Period: 07/18/2023 08:18 to 07/18/2023 16:37

Location	Date/Time	VOC (ppm)	PM <sub>2.5</sub> (mg/m <sup>3</sup> ) <sup>1</sup>	PM <sub>10</sub> (mg/m <sup>3</sup> ) <sup>1</sup>
		Screening Levels		
		0.5 ppm	0.035 mg/m <sup>3</sup>	0.070 mg/m <sup>3</sup>
PCR-N-03	7/18/2023 8:29	0	0.06	0.064
	7/18/2023 11:30	0	0.047	0.05
	7/18/2023 15:04	0	0.057	0.06
PCR-N-04	7/18/2023 9:08	0	0.055	0.058
	7/18/2023 13:21	0	0.04	0.045
	7/18/2023 15:33	0	0.063	0.071
PCR-N-05	7/18/2023 9:12	0	0.055	0.058
	7/18/2023 13:26	0	0.044	0.052
	7/18/2023 14:17	0	0.054	0.056
	7/18/2023 15:36	0	0.06	0.064
PCR-N-06	7/18/2023 8:54	0	0.059	0.064
	7/18/2023 11:46	0	0.042	0.044
	7/18/2023 11:49	0	0.043	0.046
	7/18/2023 15:26	0	0.06	0.062
PCR-N-07	7/18/2023 8:32	0	0.058	0.06
	7/18/2023 11:33	0	0.047	0.052
	7/18/2023 15:10	0	0.06	0.061
PCR-N-08	7/18/2023 8:40	0	0.057	0.059
	7/18/2023 11:36	0	0.046	0.05
	7/18/2023 15:12	0	0.063	0.073
PCR-N-09	7/18/2023 8:45	0	0.057	0.059
	7/18/2023 11:08	0	0.051	0.054
	7/18/2023 11:39	0	0.045	0.05
PCR-N-10	7/18/2023 8:50	0	0.057	0.061
	7/18/2023 11:43	0	0.041	0.046
	7/18/2023 15:22	0	0.06	0.062
PCR-N-11	7/18/2023 9:17	0	0.057	0.058
	7/18/2023 13:31	0	0.042	0.045
	7/18/2023 15:42	0	0.062	0.066
PCR-N-12	7/18/2023 9:28	0	0.055	0.058
	7/18/2023 13:38	0	0.046	0.049
	7/18/2023 15:47	0	0.065	0.068
PCR-N-13	7/18/2023 9:00	0	0.056	0.059
	7/18/2023 15:26	0	0.062	0.065
PCR-S-01	7/18/2023 11:19	0	0.048	0.049
	7/18/2023 14:38	0	0.053	0.055
	7/18/2023 16:37	0	0.062	0.071

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Location	Date/Time	VOC (ppm)	PM <sub>2.5</sub> (mg/m <sup>3</sup> ) <sup>1</sup>	PM <sub>10</sub> (mg/m <sup>3</sup> ) <sup>1</sup>
		Screening Levels		
		0.5 ppm	0.035 mg/m <sup>3</sup>	0.070 mg/m <sup>3</sup>
PCR-S-04	7/18/2023 11:15	0	0.045	0.047
	7/18/2023 14:27	0	0.053	0.055
	7/18/2023 16:33	0	0.059	0.061
PCR-S-05	7/18/2023 10:45	0	0.051	0.055
	7/18/2023 16:27	0	0.059	0.061
PCR-S-06	7/18/2023 10:41	0	0.049	0.051
	7/18/2023 14:11	0	0.054	0.058
	7/18/2023 16:21	0	0.06	0.062
PCR-S-07	7/18/2023 10:35	0	0.051	0.054
	7/18/2023 14:05	0	0.054	0.055
	7/18/2023 16:16	0	0.061	0.063
PCR-S-08	7/18/2023 9:34	0	0.053	0.055
	7/18/2023 13:45	0	0.044	0.045
	7/18/2023 15:52	0	0.064	0.066
PCR-S-09	7/18/2023 14:23	0	0.052	0.054
	7/18/2023 16:30	0	0.062	0.067
PCR-S-10	7/18/2023 8:18	0	0.057	0.059
	7/18/2023 11:25	0	0.043	0.045
	7/18/2023 14:58	0	0.055	0.057
PCR-S-14	7/18/2023 10:14	0	0.053	0.057
	7/18/2023 13:52	0	0.046	0.047
	7/18/2023 16:00	0	0.064	0.066
PCR-S-15	7/18/2023 10:19	0	0.055	0.063
	7/18/2023 13:57	0	0.065	0.08
	7/18/2023 16:04	0	0.065	0.069
PCR-S-16	7/18/2023 10:27	0	0.055	0.062
	7/18/2023 14:01	0	0.058	0.071
	7/18/2023 16:09	0	0.075	0.085

Notes:

Highlighted indicate detections above screening levels

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 changed.

mg/m<sup>3</sup> - milligrams per cubic meter

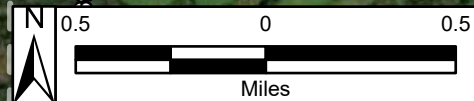
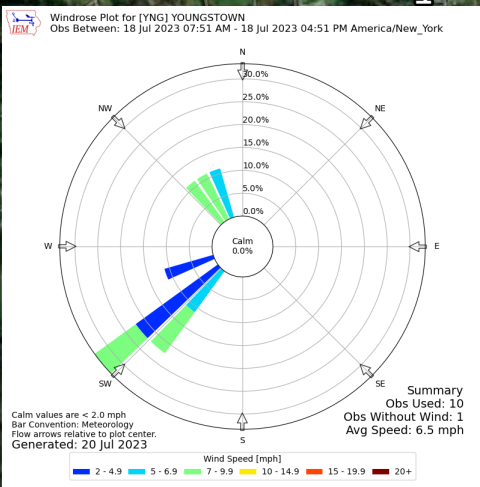
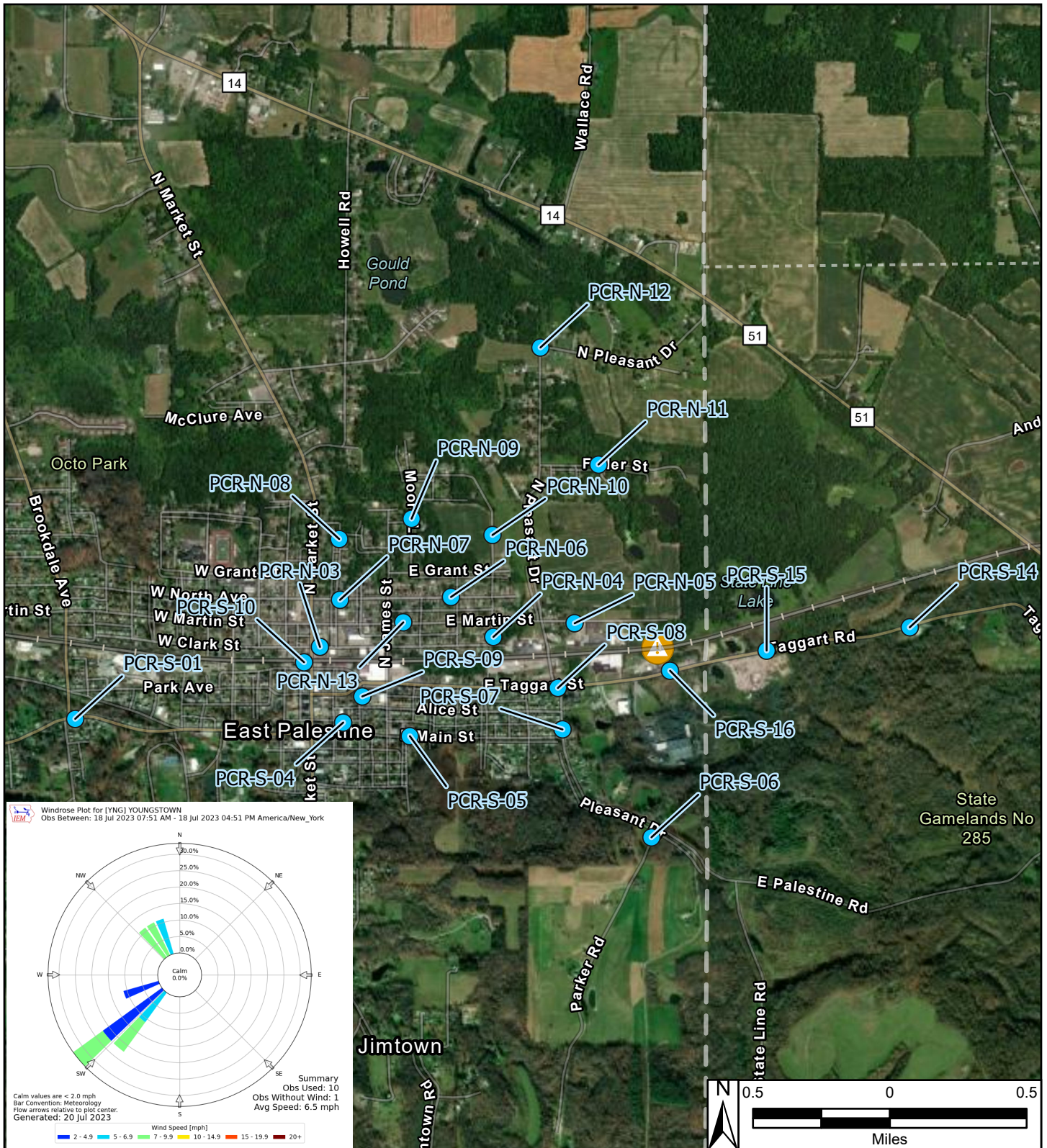
PM<sub>2.5</sub> - particles that are 2.5 micrometers and smaller

PM<sub>10</sub> - 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.