

Table 1  
Work Area Continuous Air Monitoring Results  
East Palestine Derailment Site  
East Palestine, Columbiana County, Ohio

**Monitoring Period: 04/13/2023 00:00 through 14/14/2023 11:19**

Air Monitoring Instrument: Serial Number	Analyte	Screening Level <sup>1</sup>	Screening Level Exceeded?	8-hour Period Concentration Range	Average of All 8-hour Periods
8533230602	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.035 (mg/m <sup>3</sup> )	Yes <sup>2</sup>	0.028 to 0.059	0.046
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.070 (mg/m <sup>3</sup> )	Yes <sup>2</sup>	0.067 to 0.108	0.085
8533230604	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.035 (mg/m <sup>3</sup> )	Yes <sup>2</sup>	0.016 to 0.043	0.032
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.070 (mg/m <sup>3</sup> )	No	0.025 to 0.058	0.047
8533153005	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.035 (mg/m <sup>3</sup> )	Yes <sup>2</sup>	0.021 to 0.055	0.035
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.070 (mg/m <sup>3</sup> )	Yes <sup>2</sup>	0.028 to 0.086	0.051
8533213308	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.035 (mg/m <sup>3</sup> )	Yes <sup>2</sup>	0.021 to 0.062	0.037
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.070 (mg/m <sup>3</sup> )	Yes <sup>2</sup>	0.025 to 0.091	0.056
8533183902	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.035 (mg/m <sup>3</sup> )	Yes <sup>2</sup>	0.026 to 0.039	0.03
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.070 (mg/m <sup>3</sup> )	No	0.030 to 0.044	0.035
W01A0000610	VOC (ppm)	0.5 (ppm)	No	0.00 to 0.12	0.03
	LEL (%)	>5%	No	0.00 to 0.38	0.08
W01A0000612	VOC (ppm)	0.5 (ppm)	No	0.00 to 0.00	0.00
	LEL (%)	>5%	No	0.00 to 0.00	0.00
W01A00002178	VOC (ppm)	0.5 (ppm)	No	0.00 to 0.00	0.00
W01A00002184	VOC (ppm)	0.5 (ppm)	No	0.00 to 0.00	0.00
	LEL (%)	>5%	No	0.00 to 0.00	0.00
W01B00002178	VOC (ppm)	0.5 (ppm)	No	0.00 to 0.00	0.00
	LEL (%)	>5%	No	0.00 to 0.00	0.00
W01B00002207	VOC (ppm)	0.5 (ppm)	No	0.00 to 0.00	0.00
	LEL (%)	>5%	No	0.00 to 0.00	0.00

**Notes:**

<sup>1</sup> Site-Specific Screening Levels stated in the Tetra Tech Air Monitoring and Sampling Plan. 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.

<sup>2</sup> Vehicle traffic observed during monitoring period near monitoring instrument.

Air monitoring measurements have been averaged over a 8-hour time period and summarized above.

Air monitoring is not performed during inclement weather conditions/rain and thunderstorms.

**Abbreviations:**

> - Greater than

% - Percent

LEL - Lower Explosive Limit

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

PM<sub>2.5</sub> - Particulate Matter, diameter 2.5 micrometers and smaller

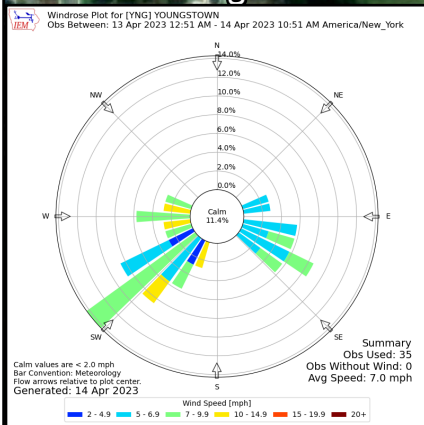
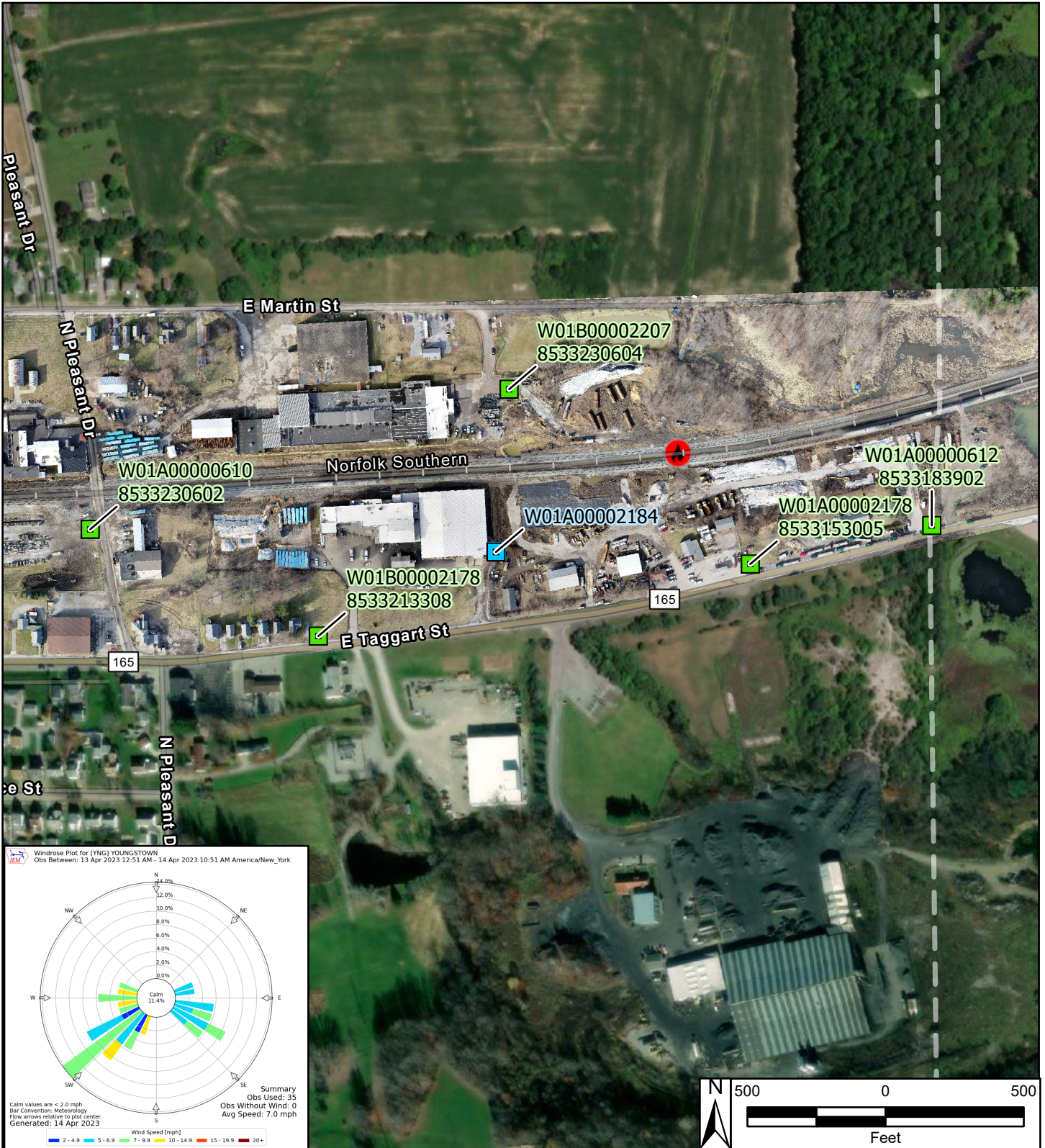
PM<sub>10</sub> - Particulate Matter, diameter 10 micrometers and smaller

ppm - Parts per million

S/N - Serial number

VOC - Volatile organic compound

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r5\_eastpalestine@epa.gov



- Legend**
- Continuous Air Monitoring Locations with DustTrak
  - Continuous Air Monitoring Locations
  - 🔥 Derailment Location
  - ⏏ One Mile Radius

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

**Figure 1**  
**Continuous Air Monitoring Work Area Stations**

**TETRA TECH**

Prepared For: EPA | Prepared By: Tetra Tech Inc.