

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

**Monitoring Period: 04/12/2023 00:00 through 04/13/2023 10:45**

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
8533153005	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.035 (mg/m <sup>3</sup> )	No	0.013 to 0.029	0.021
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.070 (mg/m <sup>3</sup> )	No	0.018 to 0.034	0.026
8533183902	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.035 (mg/m <sup>3</sup> )	No	0.022 to 0.031	0.027
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.070 (mg/m <sup>3</sup> )	No	0.026 to 0.040	0.031
8533213308	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.035 (mg/m <sup>3</sup> )	Yes <sup>2</sup>	0.017 to 0.052	0.029
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.070 (mg/m <sup>3</sup> )	No	0.021 to 0.064	0.036
8533230602	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.035 (mg/m <sup>3</sup> )	Yes <sup>2</sup>	0.045 to 0.059	0.051
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.070 (mg/m <sup>3</sup> )	Yes <sup>2</sup>	0.070 to 0.105	0.087
8533230604	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.035 (mg/m <sup>3</sup> )	No	0.013 to 0.026	0.019
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.070 (mg/m <sup>3</sup> )	No	0.021 to 0.033	0.028
W01A00000610	VOC (ppm)	0.5 (ppm)	No	0.00 to 0.00	0.00
	LEL (%)	>5%	No	0.00 to 0.84	0.10
W01A00000612	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

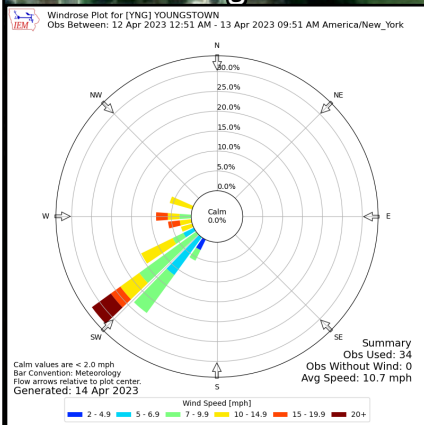
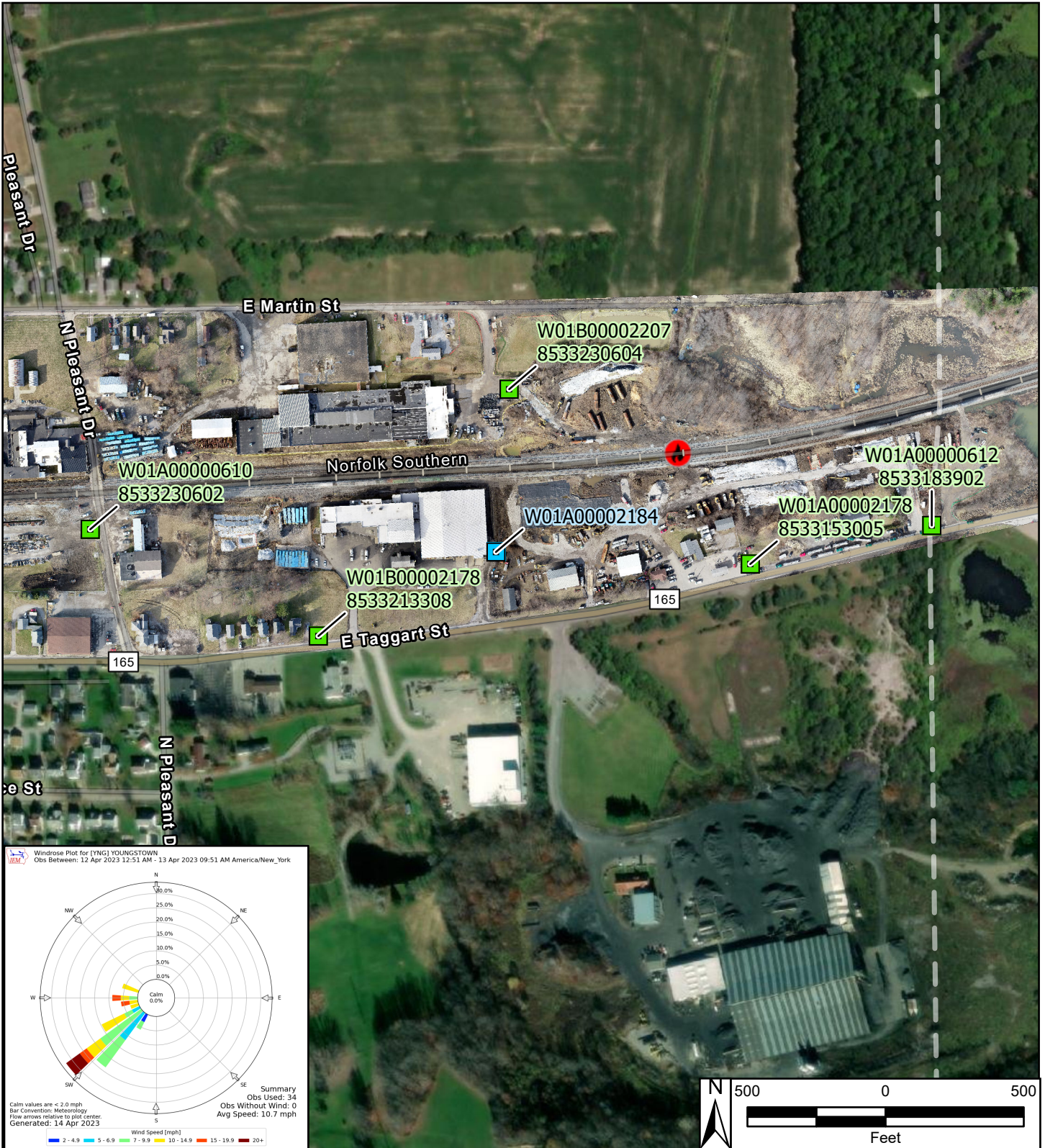
PM<sub>10</sub> - Particulate Matter, diameter 10 micrometers and smaller

ppm - Parts per million

S/N - Serial number

VOC - Volatile organic compound

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](mailto: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.