

Table 1
Roving Air Monitoring Results Summary Table
East Palestine Derailment Emergency Response
East Palestine, Ohio
Monitoring Period: 02/07/2023 14:20 to 02/08/2023 12:42

Date/Time	O ₂ (%)	LEL (%)	CO (ppm)	H ₂ S (ppm)	VOC (ppm)	PM _{2.5} (mg/m ³)	PM ₁₀ (mg/m ³)	HCN (ppm)*	Benzene (ppm)	Phosgene (ppm)	HCl (ppm)
	Screening Levels										
	19.5% to 23.5%	5%	25 ppm	0.1 ppm	0.5 ppm	0.025 mg/m ³	0.05 mg/m ³	0.5 ppm	0.5 ppm	0.04 ppm	1.8 ppm
2/8/2023 11:00	20.9	0	0	0	0	0.05	0.05	0	0	0	0
2/7/2023 17:36		0	0	0	0	0.012	0.014	0		0	0
2/7/2023 15:40		0	0	0	0	0.009	0.021	0		0	0
2/8/2023 9:10	20.9	0	0	0	0	0.048	0.048	0	0	0	0
2/8/2023 9:50	20.9	0	0	0	0	0.047	0.047	0	0	0	0
2/8/2023 2:46		0	0	0	0	0.044	0.044	0		0	0
2/8/2023 11:25	20.9	0	0	0	0	0.04	0.04	0	0	0	0
2/8/2023 11:54	20.9	0	0	0	0	0.039	0.039	0	0	0	0
2/7/2023 18:03		0	0	0	0	0.015	0.03	0		0	0
2/7/2023 15:58		0	0	0	0.05	0.202	0.213	0		0	0
2/8/2023 10:18	20.9	0	0	0	0	0.045	0.045	0	0	0	0
2/8/2023 10:35	20.9	0	0	0	0	0.046	0.048	0	0	0	0
2/7/2023 16:29		0	0	0	0	0.011	0.12	0		0	0
2/7/2023 18:17		0	0	0	0	0.012	0.017	0		0	0
2/7/2023 15:49		0	0	0	0	0.01	0.012	0		0	0
2/7/2023 16:23		0	0	0	0	0.008	0.01	0		0	0
2/7/2023 16:36		0	0	0	0	0.009	0.012	0		0	0
2/8/2023 12:42		0	0	0	0	0.031	0.036	0		0	0
2/7/2023 18:11		0	0	0	0	0.008	0.013	0		0	0
2/7/2023 18:20		0	0	0	0	0.013	0.017	0		0	0
2/7/2023 17:26		0	0	0	0	0	0	0		0	0
2/7/2023 21:45		0	0	0	0.01	0.027	0.033	0	0.01	0	0
2/7/2023 23:23		0	0	0	0	0.018	0.02	0		0	0
2/8/2023 0:16		0	0	0	0	0.017	0.018	0		0	0
2/8/2023 3:29		0	0	0	0	0.049	0.049	0		0	0
2/8/2023 3:08		0	0	0	0	0.045	0.047	0		0	0
2/8/2023 0:49		0	0	0	0	0.036	0.041	0		0	0
2/7/2023 20:55		0	0	0	0	0.02	0.02	0	0	0	0
2/8/2023 4:30		0	0	0	0	0.029	0.032	0		0	0
2/7/2023 23:01		0	0	0	0	0.027	0.028	0	0	0	0
2/8/2023 2:55		0	0	0	0.01	0.551	0.553	0.5		0	0
2/8/2023 1:19		0	0	0	0	0.036	0.037	0		0	0
2/7/2023 15:35	21.3	0	0	0	0	0.012	0.012	0	0	0	0
2/7/2023 20:50	20.9										
2/7/2023 21:01		0	0	0	0	0.025	0.025	0	0	0	0
2/7/2023 15:56	21.4	0	0	0	0	0.012	0.012	0	0	0	0
2/7/2023 21:13	20.9	0	0	0	0	0.026	0.027	0	0	0	0
2/7/2023 16:02	21.4	0	0	0	0	0.018	0.023	0	0	0	0
2/7/2023 21:39	20.9	0	0	0	0	0.03	0.031	0	0	0	0
2/7/2023 16:10	21.3	0	0	0	0	0.014	0.012	0	0	0	0
2/7/2023 22:17	20.9	0	0	0	0	0.032	0.032	0	0	0	0
2/7/2023 16:14	21.4	0	0	0	0	0.011	0.013	0.5	0	0	0
2/7/2023 22:48	20.9	0	0	0	0	0.029	0.029	0	0	0	0
2/7/2023 16:27	21.4	0	0	0	0	0.019	0.032	0.5	0	0	0
2/7/2023 14:20	21.3	0	0	0	0	0.014	0.018	0	0	0	0
2/7/2023 16:35	21.4	0	0	0	0	0.013	0.015	0	0	0	0
2/7/2023 16:42	21.3	0	0	0	0	0.017	0.017	0	0	0	0

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	Screening Levels										
	19.5% to 23.5%	5%	25 ppm	0.1 ppm	0.5 ppm	0.025 mg/m ³	0.05 mg/m ³	0.5 ppm	0.5 ppm	0.04 ppm	1.8 ppm
2/7/2023 16:51	21.3	0	0	0	0	0.012	0.012	0	0	0	0
2/7/2023 16:59	21.4	0	0	0	0	0.011	0.011	0	0	0	0
2/7/2023 17:10	21.4	0	0	0	0	0.029	0.035	0	0	0	0
2/7/2023 17:17	21.3	0	0	0	0	0.014	0.015	0	0	0	0
2/7/2023 17:28	21.5	0	0	0	0.01	0.035	0.047	0	0	0	0
2/7/2023 15:27		0	0	0	0	0.01	0.012	0		0	0
2/7/2023 17:55		0	0	0	0	0.007	0.01	0		0	0

Notes:

- Highlighted indicate detections above screening levels
- Grey cells indicate no measurement was collected for that specific parameter

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

% - percent

Cl - chlorine

CO - carbon monoxide

H₂S - hydrogen sulfide

HCl - hydrogen chloride

HCN -hydrogen cyanide

LEL - lower explosive limit

mg/m³ - milligrams per cubic meter

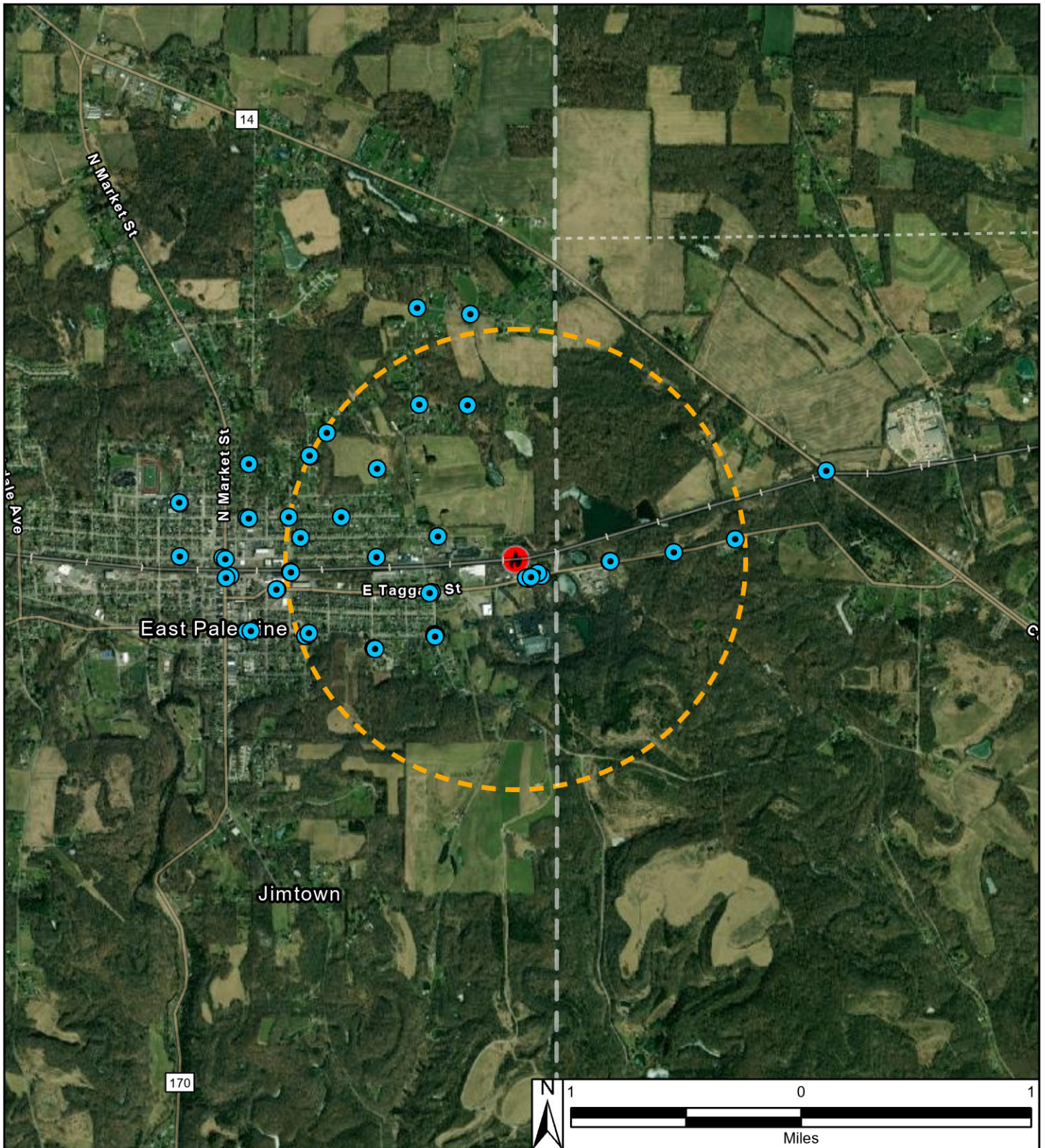
O₂ - oxygen

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

PM₁₀ - particles that are 10 micrometers and smaller

ppm - parts per million

VOC - volatile organic compounds



Reference Map

Ohio



Site Location

Legend

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

East Palestine Derailment ER Site
 75 E Main St
 East Palestine, Columbiana County, OH 44413

Figure 1
Roaming Air Monitoring Locations



Prepared For: EPA

Prepared By: Tetra Tech Inc.