

Air Monitoring Summary Tables

The table below summarize monitoring data collected by roving teams throughout the evacuation zone and beyond.



Project Name: Maryville CSX Train Derailment

Date: 7/3-4/2015

Time: 6:00 PM - 6:00 AM

All Monitoring Locations							
Instrument	Analyte	Agency	Number of Readings	Number of Detections	Concentration Range ^a	Average Reading	Action Level (PEL/TLV)
AreaRae	CO	EPA	156	0	0 - 0 ppm	0.00	50 ppm
	HCN	EPA	156	0	0 - 0 ppm	0.00	10 ppm
	LEL	EPA	156	0	0 - 0 %	0.00	10%
Data Ram	PM-2.5	EPA	156	156	5.2 - 29.1 ug/m3	16.27	80.1 ug/m3
FID	VOC (as acrylonitrile)	EPA	156	156	1.25 - 5.04 ppm	3.07	2 ppm (above background)
AreaRae - PID	VOC (as acrylonitrile)	CST	13	0	0 - 0 ppm	0.00	2 ppm (above background)

Notes:

- ^a It should be noted that although some FID readings were identified at concentrations above the Action Level, all readings were comparable to background concentrations measured at offsite and upwind locations, which ranged from 0 to 3.5 ppm
- CO Carbon monoxide
- HCN Hydrogen cyanide
- LEL Lower explosive limit
- NA Not Applicable
- O₂ Oxygen
- PM-2.5 Particulate matter with an average diameter less than 10 microns
- ppm Parts per million
- ug/m³ micrograms per cubic meter
- VOC Volatile organic compounds