

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: 7/4-5/2015

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	106	0	0 - 0 ppm	0.00	50 ppm
	HCN	EPA	106	0	0 - 0 ppm	0.00	10 ppm
	LEL	EPA	106	0	0 - 0 %	0.00	10%
Data Ram	PM-2.5	EPA	106	106	4.7 - 290.7 ug/m3**	57.68	80.1 ug/m3
FID	VOC (as acrylonitrile)	EPA	106	106	0.3 - 4.74 ppm*	1.01	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
- **
- During this oprational period a high number of fireworks were released in the area. Smoke from the fireworks was a contributing factor to the particulate concentrations shown here.
- 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