

# Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.



**Project Name:** Knoxville College

**Date:** June 23 -24, 2014

**Time:** ~17:30 - 07:30

Southwest MLK Building						
Instrument	Analyte	Period Average Exceedances	Number of Readings <sup>a</sup>	Number of Detections <sup>b</sup>	Concentration Range	Period Average
SPM (.144)	HCl	No	812	0	-3.74 - -0.08 ppm	-0.09 ppm

Northwest MLK Building						
Instrument	Analyte	Period Average Exceedances	Number of Readings <sup>a</sup>	Number of Detections <sup>b</sup>	Concentration Range	Period Average
SPM (.143)	HCl	No	866	0	0.07 - 0.1 ppm	0.09 ppm

Hotzone						
Instrument	Analyte	Period Average Exceedances	Number of Readings <sup>a</sup>	Number of Detections <sup>b</sup>	Concentration Range	Period Average
AreaRAE (.134)	VOC	No	6044	0	0 - 0 ppm	0 ppm
	HCN	No	6044	2207	0 - 16.2 ppm	1.01 ppm
	LEL	No	6046	5564	0 - 3.7%	2.63%
	O <sub>2</sub>	No	6046	6046	20.9 - 20.9%	20.9%
	H <sub>2</sub> S	No	6045	0	0 - 0.1 ppm	0 ppm

North of Hotzone						
Instrument	Analyte	Period Average Exceedances	Number of Readings <sup>a</sup>	Number of Detections <sup>b</sup>	Concentration Range	Period Average
AreaRAE (.135)	VOC	No	5969	1781	0 - 8.1 ppm	0.62 ppm
	CO	No	5969	0	0 - 0 ppm	0 ppm
	LEL	No	5969	5557	0 - 49.9% *	31.4%
	O <sub>2</sub>	No	5969	5969	20.9 - 22.2%	20.9%
	H <sub>2</sub> S	No	5969	0	0 - 0 ppm	0 ppm

## Notes:

- <sup>a</sup> Values recorded by the instrument
- <sup>b</sup> Values at or above detection limits
- CO Carbon monoxide
- H<sub>2</sub>S Hydrogen sulfide
- HCl Hydrogen Chloride
- HCN Hydrogen Cyanide
- LEL Lower explosive limit
- O<sub>2</sub> Oxygen
- ppm Parts per million
- VOC Volatile organic compounds

## Detection limits

Analyte	Lower	Upper
CO	1 ppm	500 ppm
H <sub>2</sub> S	1 ppm	100 ppm
HCl	0.5 ppm	15 ppm
HCN	1 ppm	100 ppm
LEL	1%	100%
O <sub>2</sub>	0.1%	30%
VOC	0.1 ppm	2,000 ppm

\*LEL sensor was checked against a MultiRAE Pro and was found to be out of calibration, hence the reason for high LEL values.