

# 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 14, 2014

**Time:** 8:00 - 17:30



Northeast Corner						
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average
AreaRAE (.232)	VOC	No	1990	1	0 - 0.3 ppm	0 ppm
	CO	No	1990	615	0 - 11.2 ppm	1.52 ppm
	LEL	No	1990	0	0 - 0%	0%
	O2	No	1990	1990	20.9 - 20.9%	20.9%
DataRAM (.139)	H2S	No	1990	0	0 - 0.3 ppm	0.05 ppm
	PM-2.5	No	1434	1434	1.9 - 8.6 ug/m3	4.74 ug/m3

Southwest Corner						
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average
AreaRAE (.137)	VOC	No	1446	8	0 - 0.7 ppm	0 ppm
	CO	No	1446	0	0 - 0.5 ppm	0 ppm
	LEL	No	1446	0	0 - 0%	0%
	O2	No	1446	1446	20.9 - 22.7%	21.09%
DataRAM (.140)	H2S	No	1446	0	0 - 0 ppm	0 ppm
	PM-2.5	No	433	433	2 - 12.8 ug/m3	6.39 ug/m3

Building Interior						
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average
AreaRAE (.134)	VOC	No	1191	0	0 - 0 ppm	0 ppm
	CO	No	1191	0	0 - 1 ppm	0.05 ppm
	LEL	No	1191	0	0 - 0%	0%
	O2	No	1192	1192	21.2 - 21.4%	21.31%
DataRAM (.228)	H2S	No	1191	0	0 - 0.1 ppm	0 ppm
	PM-2.5	No	1241	60	0 - 6.9 ug/m3	0.07 ug/m3

Building Interior 2						
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average
AreaRAE (.135)	VOC	No	393	55	0 - 0.7 ppm	0.1 ppm
	CO	No	393	0	0 - 0 ppm	0 ppm
	LEL	No	393	0	0 - 0%	0%
	O2	No	392	392	20.7 - 20.9%	20.75%
DataRAM (.228)	H2S	No	393	0	0 - 0 ppm	0 ppm

Personal Monitor						
Multiple locations within the building interior						
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average
MultiRAE (.230)	VOC	No	1118	788	0 - 18 ppb	5.36 ppb
	CO	No	1118	0	0 - 0 ppm	0 ppm
	LEL	No	1118	0	0 - 0%	0%
	O2	No	1118	1118	20.9 - 20.9%	20.9%
DataRAM (.228)	H2S	No	1118	0	0 - 0 ppm	0 ppm
	PM-2.5	No	1118	330	0 - 20 uR/h	2.59 uR/h

Notes:

- CO Carbon monoxide
- H<sub>2</sub>S Hydrogen sulfide
- LEL Lower explosive limit
- O<sub>2</sub> Oxygen
- PM-2.5 Particulate matter with an average diameter less than 2.5 microns
- ppm Parts per million
- ppb Parts per billion
- ug/m<sup>3</sup> micrograms per cubic meter
- uR/h micro-Roentgens per hour
- VOC Volatile organic compounds