

# 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 17, 2014

**Time:** 8:30 - 16:30



Northeast Corner						
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average
AreaRAE (.232)	VOC	No	1464	13	0 - 1 ppm	0 ppm
	CO	No	1463	86	0 - 15.2 ppm	0.52 ppm
	LEL	No	1464	0	0 - 0%	0%
	O2	No	1464	1464	20.9 - 20.9%	20.9%
DataRAM (.139)	H2S	No	1464	0	0 - 0.2 ppm	0.01 ppm
	PM-2.5	No	1423	1423	19.3 - 33 ug/m3	25.01 ug/m3

Southwest Corner						
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average
AreaRAE (.137)	VOC	No	1430	0	0 - 0 ppm	0 ppm
	CO	No	1430	0	0 - 0 ppm	0 ppm
	LEL	No	1430	0	0 - 0%	0%
	O2	No	1430	1430	20.9 - 22.4%	21.14%
DataRAM (.140)	H2S	No	1430	0	0 - 0 ppm	0 ppm
	PM-2.5	No	1428	1428	22.5 - 36.4 ug/m3	28.74 ug/m3

Building Interior						
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average
AreaRAE (.134)	VOC	No	1331	0	0 - 0 ppm	0 ppm
	CO	No	1331	0	0 - 0 ppm	0 ppm
	LEL	No	1331	0	0 - 0%	0%
	O2	No	1331	1331	20.9 - 20.9%	20.9%
DataRAM (.228)	H2S	No	1331	0	0 - 0 ppm	0 ppm
	PM-2.5	No	1443	1443	28.3 - 121.6 ug/m3	41.99 ug/m3

Building Interior 2						
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average
AreaRAE (.135)	VOC	No	1538	0	0 - 0 ppm	0 ppm
	CO	No	1538	0	0 - 0 ppm	0 ppm
	LEL	No	1539	391	0 - 3.6%	0.6%
	O2	No	1539	1539	20.9 - 20.9%	20.9%
DataRAM (.228)	H2S	No	1538	0	0 - 0.3 ppm	0.09 ppm

Personal Monitor						
Multiple locations within the building interior						
Instrument	Analyte	Period Average Exceedances	Number of Readings <sup>a</sup>	Number of Detections <sup>b</sup>	Concentration Range	Period Average
MultiRAE (.230)	VOC	No	1436	0	0 - 0 ppb	0 ppb
	CO	No	1435	0	0 - 0 ppm	0 ppm
	LEL	No	1435	0	0 - 0%	0%
	O2	No	1435	1435	20.9 - 20.9%	20.9%
	H2S	No	1435	0	0 - 0 ppm	0 ppm
DataRAM (.228)	Gamma	No	1436	1436	3 - 18 uR/h	8.75 uR/h

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

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