

# 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 20, 2014

**Time:** 9:00 - 17:00



Northeast Corner						
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average
AreaRAE (.232)	VOC	No	1480	0	0 - 0 ppm	0 ppm
	CO	No	1480	75	0 - 6.5 ppm	0.2 ppm
	LEL	No	1480	0	0 - 0%	0%
	O2	No	1480	1480	20.4 - 20.9%	20.89%
DataRAM (.139)	H2S	No	1480	0	0 - 0.2 ppm	0 ppm
	PM-2.5	No	1413	1413	9.6 - 36.3 ug/m3	14.11 ug/m3

Southwest Corner						
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average
AreaRAE (.137)	VOC	No	1420	2	0 - 0.7 ppm	0 ppm
	CO	No	1420	0	0 - 0 ppm	0 ppm
	LEL	No	1420	0	0 - 0%	0%
	O2	No	1420	1420	20.9 - 22.2%	21.19%
DataRAM (.140)	H2S	No	1420	0	0 - 0 ppm	0 ppm
	PM-2.5	No	1411	1411	10.6 - 21.4 ug/m3	16.97 ug/m3

Building Interior						
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average
AreaRAE (.134)	VOC	No	1442	0	0 - 0 ppm	0 ppm
	CO	No	1442	0	0 - 0 ppm	0 ppm
	LEL	No	1442	0	0 - 0%	0%
	O2	No	1442	1442	20.9 - 20.9%	20.9%
DataRAM (.228)	H2S	No	1442	0	0 - 0 ppm	0 ppm
	PM-2.5	No	1560	1560	14.7 - 47 ug/m3	18.74 ug/m3

Building Interior 2						
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average
AreaRAE (.135)	VOC	No	1698	0	0 - 0 ppm	0 ppm
	CO	No	1698	0	0 - 0 ppm	0 ppm
	LEL	No	1698	287	0 - 4.2%	0.53%
	O2	No	1700	1700	20.9 - 20.9%	20.9%
DataRAM (.228)	H2S	No	1698	0	0 - 0.2 ppm	0.02 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	1423	0	0 - 0 ppb	0 ppb
	CO	No	1423	0	0 - 0 ppm	0 ppm
	LEL	No	1423	0	0 - 0%	0%
	O2	No	1423	1423	20.9 - 20.9%	20.9%
	H2S	No	1423	1	0 - 4 ppm	0 ppm
DataRAM (.228)	Gamma	No	1423	1423	2 - 23 uR/h	5.59 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