

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 19, 2014

Time: 9:00 - 17:15



Northeast Corner						
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average
AreaRAE (.232)	VOC	No	1865	967	0 - 0.3 ppm	0.05 ppm
	CO	No	1865	345	0 - 14.9 ppm	1.09 ppm
	LEL	No	1865	0	0 - 0%	0%
	O2	No	1865	1865	20.4 - 23.8%	20.99%
DataRAM (.139)	H2S	No	1865	0	0 - 0 ppm	0 ppm
	PM-2.5	No	1468	1468	6 - 36.6 ug/m3	23.1 ug/m3

Southwest Corner						
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average
AreaRAE (.137)	VOC	No	1480	0	0 - 0 ppm	0 ppm
	CO	No	1480	0	0 - 0 ppm	0 ppm
	LEL	No	1480	0	0 - 0%	0%
	O2	No	1480	1480	20.9 - 22.2%	21.19%
DataRAM (.140)	H2S	No	1480	0	0 - 0 ppm	0 ppm
	PM-2.5	No	1466	1466	5.1 - 39.8 ug/m3	26.33 ug/m3

Building Interior						
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average
AreaRAE (.134)	VOC	No	1477	0	0 - 0 ppm	0 ppm
	CO	No	1477	0	0 - 0 ppm	0 ppm
	LEL	No	1477	0	0 - 0%	0%
	O2	No	1477	1477	20.9 - 20.9%	20.9%
DataRAM (.228)	H2S	No	1477	0	0 - 0 ppm	0 ppm
	PM-2.5	No	1424	1424	18.7 - 56.7 ug/m3	36.93 ug/m3

Building Interior 2						
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average
AreaRAE (.135)	VOC	No	1481	1006	0 - 2.5 ppm	0.79 ppm
	CO	No	1481	0	0 - 0 ppm	0 ppm
	LEL	No	1481	0	0 - 0%	0%
	O2	No	1482	1482	20.6 - 20.9%	20.88%
DataRAM (.228)	H2S	No	1481	0	0 - 0.1 ppm	0 ppm

Personal Monitor						
Multiple locations within the building interior						
Instrument	Analyte	Period Average Exceedances	Number of Readings ^a	Number of Detections ^b	Concentration Range	Period Average
MultiRAE (.230)	VOC	No	1456	0	0 - 0 ppb	0 ppb
	CO	No	1456	0	0 - 0 ppm	0 ppm
	LEL	No	1456	0	0 - 0%	0%
	O2	No	1456	1456	20.9 - 20.9%	20.9%
	H2S	No	1456	0	0 - 0 ppm	0 ppm
DataRAM (.228)	Gamma	No	1456	1456	3 - 19 uR/h	10.9 uR/h

Notes:

^a Values recorded by the instrument

^b Values at or above detection limits

CO Carbon monoxide

H₂S Hydrogen sulfide

LEL Lower explosive limit

O₂ Oxygen

PM-2.5 Particulate matter with an average diameter less than 2.5 microns

ppm Parts per million

ppb Parts per billion

ug/m³ micrograms per cubic meter

uR/h micro-Roentgens per hour

VOC Volatile organic compounds