

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 18, 2014

Time: 9:00 - 16:30



Northeast Corner						
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average
AreaRAE (.232)	VOC	No	1460	16	0 - 0.1 ppm	0 ppm
	CO	No	1460	42	0 - 5.9 ppm	0.09 ppm
	LEL	No	1460	0	0 - 0%	0%
	O2	No	1460	1460	20.4 - 20.9%	20.7%
DataRAM (.139)	H2S	No	1460	0	0 - 0.5 ppm	0.07 ppm
	PM-2.5	No	1445	1445	10.4 - 44.4 ug/m3	27.99 ug/m3

Southwest Corner						
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average
AreaRAE (.137)	VOC	No	1969	0	0 - 0 ppm	0 ppm
	CO	No	1969	17	0 - 4.7 ppm	0.04 ppm
	LEL	No	1969	510	0 - 3.2%	0.77%
	O2	No	1969	1969	21.2 - 24.1%	21.99%
DataRAM (.140)	H2S	No	1969	0	0.1 - 0 ppm	0 ppm
	PM-2.5	No	1447	1447	8.2 - 47.7 ug/m3	33.9 ug/m3

Building Interior						
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average
AreaRAE (.134)	VOC	No	1447	0	0 - 0 ppm	0 ppm
	CO	No	1447	0	0 - 0 ppm	0 ppm
	LEL	No	1447	0	0 - 0%	0%
	O2	No	1447	1447	20.9 - 20.9%	20.9%
DataRAM (.228)	H2S	No	1447	0	0 - 0 ppm	0 ppm
	PM-2.5	No	1337	1337	15.4 - 53.5 ug/m3	41.7 ug/m3

Building Interior 2						
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average
AreaRAE (.135)	VOC	No	18705	3777	0 - 10 ppm	0.25 ppm
	CO	No	18705	7	0 - 2 ppm	0 ppm
	LEL	No	18705	18704	0 - 6.3%	3.59%
	O2	No	18705	18705	4 - 20.9%	20.9%
DataRAM (.228)	H2S	No	18705	0	0 - 0 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	1434	6	0 - 20 ppb	0.06 ppb
	CO	No	1433	0	0 - 0 ppm	0 ppm
	LEL	No	1433	0	0 - 0%	0%
	O2	No	1433	1433	20.9 - 20.9%	20.9%
	H2S	No	1433	0	0 - 0 ppm	0 ppm
DataRAM (.228)	Gamma	No	1433	1433	3 - 21 uR/h	8.46 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