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 12, 2014

Time: 9:00 - 18:00

Northeast Corner						
Instrument	**Analyte**	**Period Average Exceedances**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**
AreaRAE (.232)	VOC	No	1748	68	0 - 12.3 ppm	0.46 ppm
	CO	No	1748	1304	0 - 26.7 ppm	7.4 ppm
	LEL	No	1748	78	0 - 9.6%	0.35 ppm
	O2	No	1748	1748	20 - 21.7%	21.14%
	H2S	No	1748	0	0 - 0.7 ppm	0.02 ppm
DataRAM (.139)	PM-2.5	No	1452	1452	3.8 - 41.2 ug/m3	13.63 ug/m3

Southwest Corner						
Instrument	**Analyte**	**Period Average Exceedances**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**
AreaRAE (.137)	VOC	No	1486	0	0 - 0 ppm	0 ppm
	CO	No	1486	0	0 - 0.8 ppm	0.08 ppm
	LEL	No	1486	0	0 - 0%	0 ppm
	O2	No	1486	1486	20.6 - 22.6%	21.05%
	H2S	No	1486	0	0 - 0 ppm	0 ppm

Building Interior						
Instrument	**Analyte**	**Period Average Exceedances**	**Number of Readings**	**Number of Detections**	**Concentration Range**	**Period Average**
AreaRAE (.134)	VOC	No	1484	0	0 - 0 ppm	0 ppm
	CO	No	1484	40	0 - 1.8 ppm	0.23 ppm
	LEL	No	1484	0	0 - 0%	0 ppm
	O2	No	1484	1484	20.9 - 21.3%	20.98%
	H2S	No	1484	0	0 - 0.1 ppm	0 ppm
DataRAM (.228)	PM-2.5	No	1467	1467	8.5 - 39.9 ug/m3	20.6 ug/m3

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	3463	1347	0 - 26 ppb	3.1 ppb
	CO	No	3463	0	0 - 0 ppm	0 ppm
	LEL	No	3463	0	0 - 0%	0 ppm
	O2	No	3463	1347	0 - 20.9%	8.13%
	H2S	No	3463	0	0 - 0 ppm	0 ppm
	Gamma	No	3463	279	0 - 3900 uR/hr	29.31 uR/h

Notes:

CO	Carbon monoxide
H_2S	Hydrogen sulfide
LEL	Lower explosive limit
O_2	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^3	micrograms per cubic meter
uR/h	micro-Roentgens per hour
VOC	Volatile organic compounds