

# Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.



**Project Name:** Aliceville Train Derailment

**Date:** 11/9/2013 to 11/10/13

**Time:** 21:00 - 05:00

SW of Derailment & County Road 2						
Instrument	Analyte	Number of Readings <sup>a</sup>	Number of Detections <sup>b</sup>	Number of 1-hour TWA Exceedances <sup>c</sup>	Concentration Range	Period TWA <sup>d</sup>
Area Rae (.134)	VOCs	444	434	0	0 - 2.6 ppm	1.359094
Data Ram (.228)	PM-2.5	455	455	0	7.2 - 385.1 ug/m3	41.297201

Essie Drive & County Road 13						
Instrument	Analyte	Number of Readings <sup>a</sup>	Number of Detections <sup>b</sup>	Number of 1-hour TWA Exceedances <sup>c</sup>	Concentration Range	Period TWA <sup>d</sup>
Area Rae (.229)	VOCs	452	452	0	1.3 - 1.9 ppm	1.675667
Data Ram (.227)	PM-2.5	454	454	0	10.7 - 190.8 ug/m3	45.227795

Providence Baptist Church on County Road 13						
Instrument	Analyte	Number of Readings <sup>a</sup>	Number of Detections <sup>b</sup>	Number of 1-hour TWA Exceedances <sup>c</sup>	Concentration Range	Period TWA <sup>d</sup>
Area Rae (.230)	VOCs	452	448	0	1.3 - 3.9 ppm	2.571708
Data Ram (.140)	PM-2.5	124	124	0	7.8 - 15.4 ug/m3	16.767049

McCaa Bottom Road and State Road 14						
Instrument	Analyte	Number of Readings <sup>a</sup>	Number of Detections <sup>b</sup>	Number of 1-hour TWA Exceedances <sup>c</sup>	Concentration Range	Period TWA <sup>d</sup>
Area Rae (.135)	VOCs	447	0	0	0 - 0 ppm	0
Data Ram (.139)	PM-2.5	124	124	0	15.5 - 21.2 ug/m3	16.767049

Notes:

a Values recorded by the instrument

b Values at or above the instrument's detection limits

AreaRae VOC	0.1 ppm
DataRam	0.1 ug/m3

c 1-hour TWA values at or above the 1-hour TWA Alarm Level

AreaRae VOC	5 ppm
DataRam	200 ug/m3

d Monitoring period was approximately 8 hours, therefore the final 8-hour TWA is displayed

< Less than

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

ppm Parts per million

ug/m3 micrograms per cubic meter

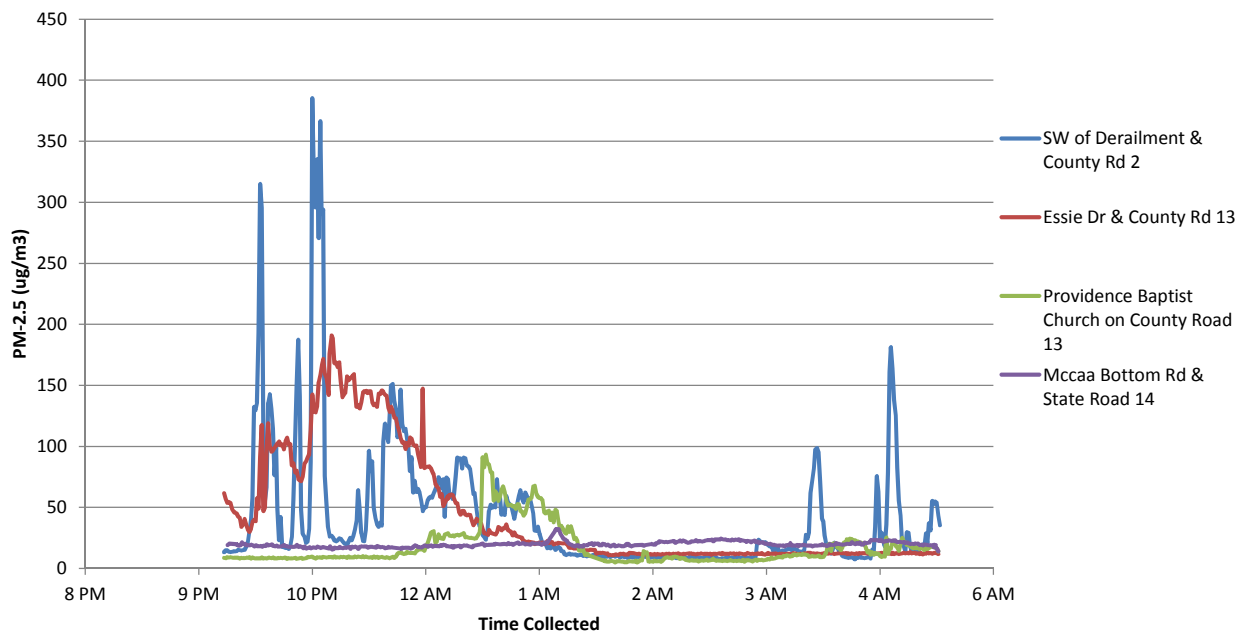
VOC Volatile organic compounds

## Air Monitoring Summary Charts

The charts below summarize EPA monitoring data collected throughout 11/09 evening.



**DataRam Instantaneous PM-2.5 Values  
11/09 night**



**AreaRae Instantaneous VOC Values  
11/09 night**

