CENTER FOR TOXICOLOGY AND ENVIRONMENTAL HEALTH, LLC

CTEH® Project #40442
West Fertilizer Plant Explosion
Summary of Air Monitoring Results
May 8, 2013 10:00

This data report discusses real-time air monitoring data collected between 5/7/2013 07:00 and 5/8/2013 07:00 in support of remediation operations conducted near the West Fertilizer Plant Explosion in West, TX.

Real-time air monitoring was conducted for VOCs (Volatile Organic Compounds) and ammonia (NH_3) using remote-telemeting RAESystems® AreaRAEs.

Table 1 (below) displays the data summary for AreaRAE instruments. Hand-held instruments were not employed during this period. Site maps and charts are available as attachments.

Table 1
Data Logged Stationary AreaRAE Monitoring Stations
05/07/2013 07:00 to 05/08/2013 07:00

Unit	Analyte	Count of Readings	Count of Detections	Average of Detections	Max Detection
AR13	NH3	5757	0	NA	< 1 ppm
	VOC	5757	0	NA	< 0.1 ppm
AR14	NH3	5701	0	NA	< 1 ppm
	VOC	5701	125	0.1 ppm	0.2 ppm
AR16 Mobile Down Wind Unit	NH3	5756	0	NA	< 1 ppm
	VOC	5756	3	0.3 ppm	0.5 ppm
AR17	NH3	5757	0	NA	< 1 ppm
	VOC	5757	0	NA	< 0.1 ppm
AR18	NH3	5757	0	NA	< 1 ppm
	VOC	5757	0	NA	< 0.1 ppm

[1]*The data in this table may include electronic drift. Drift is defined as any interference in the electrochemical sensor's ability to accurately report the concentration of a chemical in the atmosphere. Humidity and temperature changes throughout the monitoring period are typical sources of drift. Additionally, the data has not undergone complete QAQC as of this time.*

5120 North Shore Drive • North Little Rock, AR 72118 • P 501.801.8500 • F 501.801.8501
WEBQUESTION@CTEH.COM • WWW.CTEH.COM

CTEH CENTER FOR TOXICOLOGY AND ENVIRONMENTAL HEALTH, LLC

Appendix

Air Monitoring Zone Classifications[1]
May 08, 2013

Project: 40442
Client: OMI
City: West, TX
County: McLennan

[1] All monitoring performed outside of the Work Area boundary and the Rail Road right of way is considered Community Monitoring.

Projection System: *UTM Zone 14* **Coordinate System:** *WGS84* **Print Date:** *5/8/2013*

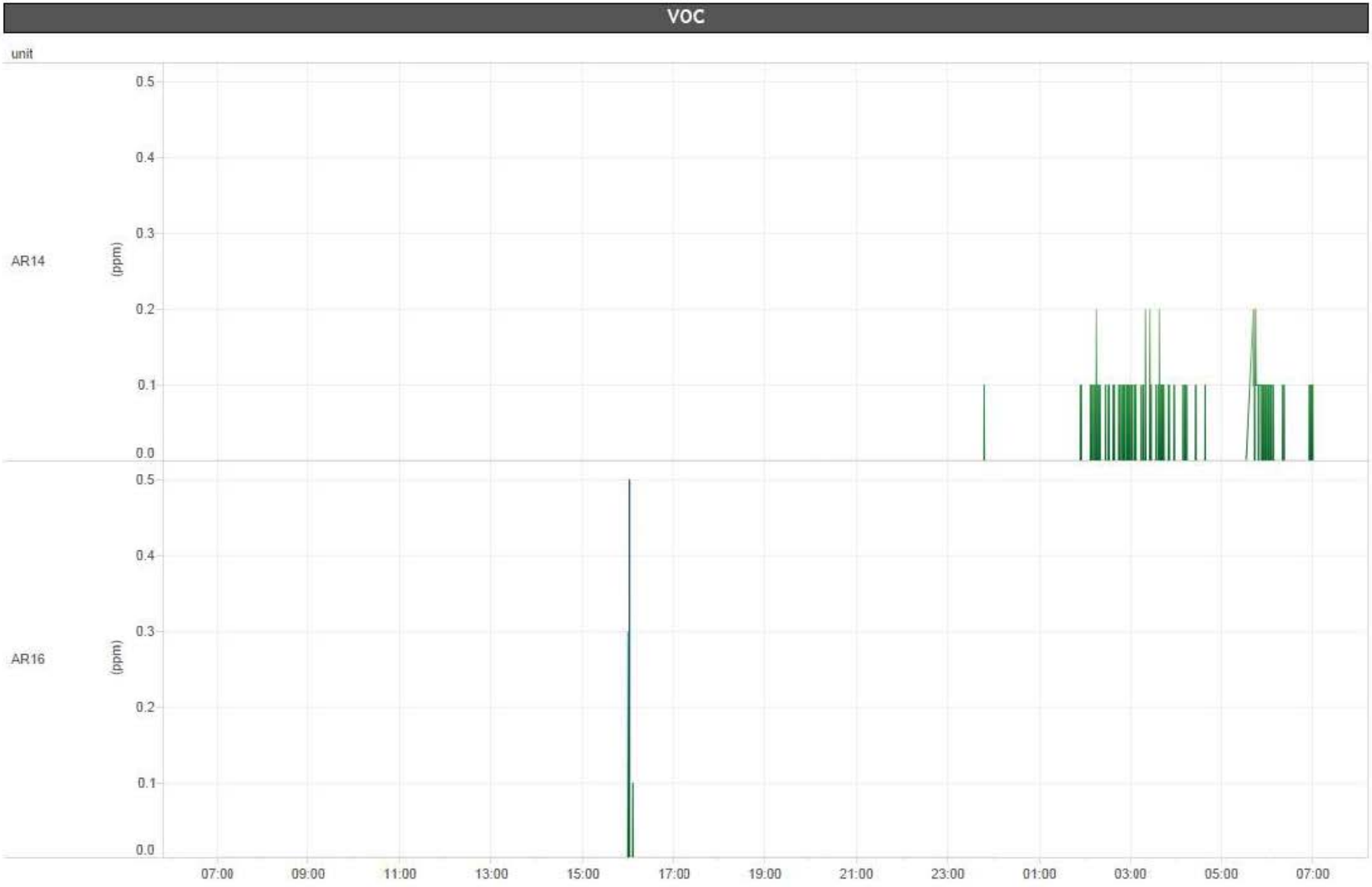
AreaRAE Monitoring Station Locations 5/08/2013

Project: 40442
Client: OMI
City: West, TX
County: McLennan

Projection System: *UTM Zone 14* **Coordinate System:** *WGS84* **Print Date:** *5/8/2013*

CTEH CENTER FOR TOXICOLOGY AND ENVIRONMENTAL HEALTH, LLC

AreaRAE Detections
5/07/2013 07:00 to 5/08/2013 07:00

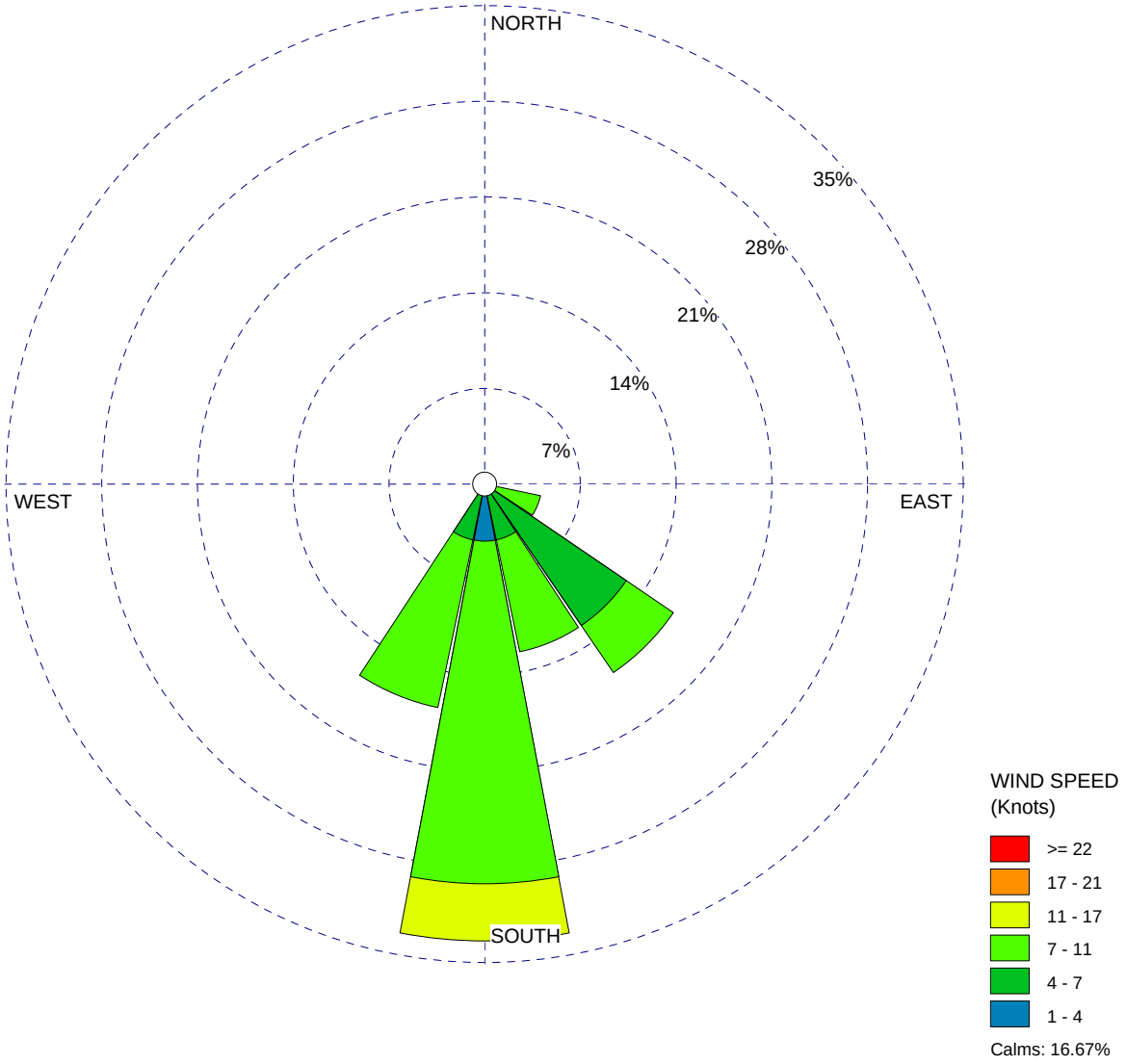


WIND ROSE PLOT:

Wind Speed and Direction 5/7/2013 07:00 to 5/8/2013 07:00
West, TX

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:

Met Station: KACT Waco, TX

COMPANY NAME:

CTEH

MODELER:

Lloyd Long

CALM WINDS:

16.67%

AVG. WIND SPEED:

6.13 Knots

PROJECT NO.:

40442-OMI

WRPLOT View - Lakes Environmental Software