CENTER FOR TOXICOLOGY
AND ENVIRONMENTAL HEALTH, LLC

CTEH® Project #40442
West Fertilizer Plant Explosion
Summary of Air Monitoring Results
May 01, 2013 10:00

This data report discusses real-time air monitoring data collected between 4/30/2013 07:00 and 5/01/2013 07:00 in support of remediation operations conducted near the West Fertilizer Plant Explosion in West, TX.

Real-time air monitoring was conducted for volatile organic compounds (VOCs) and ammonia (NH_3), using remote-telemetering RAESystems® AreaRAEs and hand-held instruments such as the RAESystems® MultiRAE.

Tables 1 and 2 (below) display data summaries for hand-held and AreaRAE instruments, respectively. Site maps and charts are available as attachments.

Table 1: Hand-held Real-time Air Monitoring Summary[1]
April 30, 2013 07:00 – May 01, 2013 07:00

Analyte	Instrument	Number of Readings	Number of Detections	Average of Detections	Range of Detections
Community					
Ammonia	MultiRAE	1	0	NA	< 1 ppm
Work Area					
Ammonia	MultiRAE	4	0	NA	< 1 ppm

[1]*Please note: The data displayed here has not undergone complete QA/QC analysis and is presented in a preliminary format.*
PPM = Parts Per Million

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

9433535

CENTER FOR TOXICOLOGY
AND ENVIRONMENTAL HEALTH, LLC

Table 2
Stationary AreaRAE Monitoring Stations Data Logged
4/30/2013 07:00 to 5/01/2013 07:00

Unit	Analyte	Count of Readings	Count of Detections	Average of Detections	Max Detection
AR13	NH3	5727	0	NA	< 1 ppm
	VOC	5727	0	NA	< 0.1 ppm
AR14	NH3	5667	0	NA	< 1 ppm
	VOC	5667	0	NA	< 0.1 ppm
AR16 Mobile Down Wind Unit	NH3	5680	0	NA	< 1 ppm
	VOC	5680	0	NA	< 0.1 ppm
AR17	NH3	5690	0	NA	< 1 ppm
	VOC	5690	0	NA	< 0.1 ppm
AR18	NH3	5649	0	NA	< 1 ppm
	VOC	5649	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.*

CTEH CENTER FOR TOXICOLOGY AND ENVIRONMENTAL HEALTH, LLC

Appendix

Air Monitoring Zone Classifications[1]
May 01, 2013

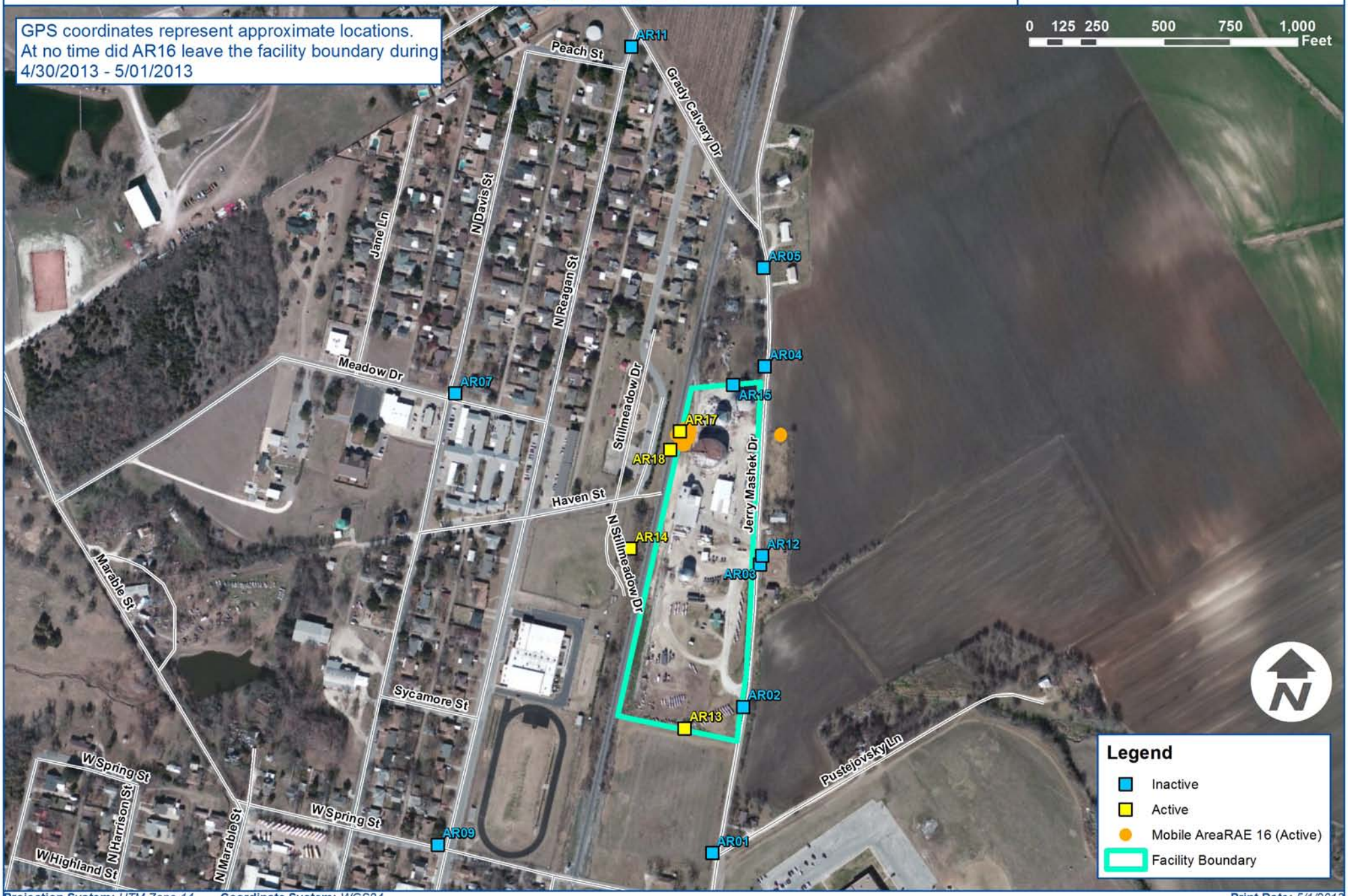
Project: 40442
Client: OMI
City: West, TX
County: McLennan

[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:** *5/1/2013*

AreaRAE Monitoring Station Locations
5/01/2013

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



Projection System: *UTM Zone 14* **Coordinate System:** *WGS84* **Print Date:** *5/1/2013*

Manually Logged Ammonia Real-Time Readings
4/30/2013 07:00 to 5/01/2013 07:00

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

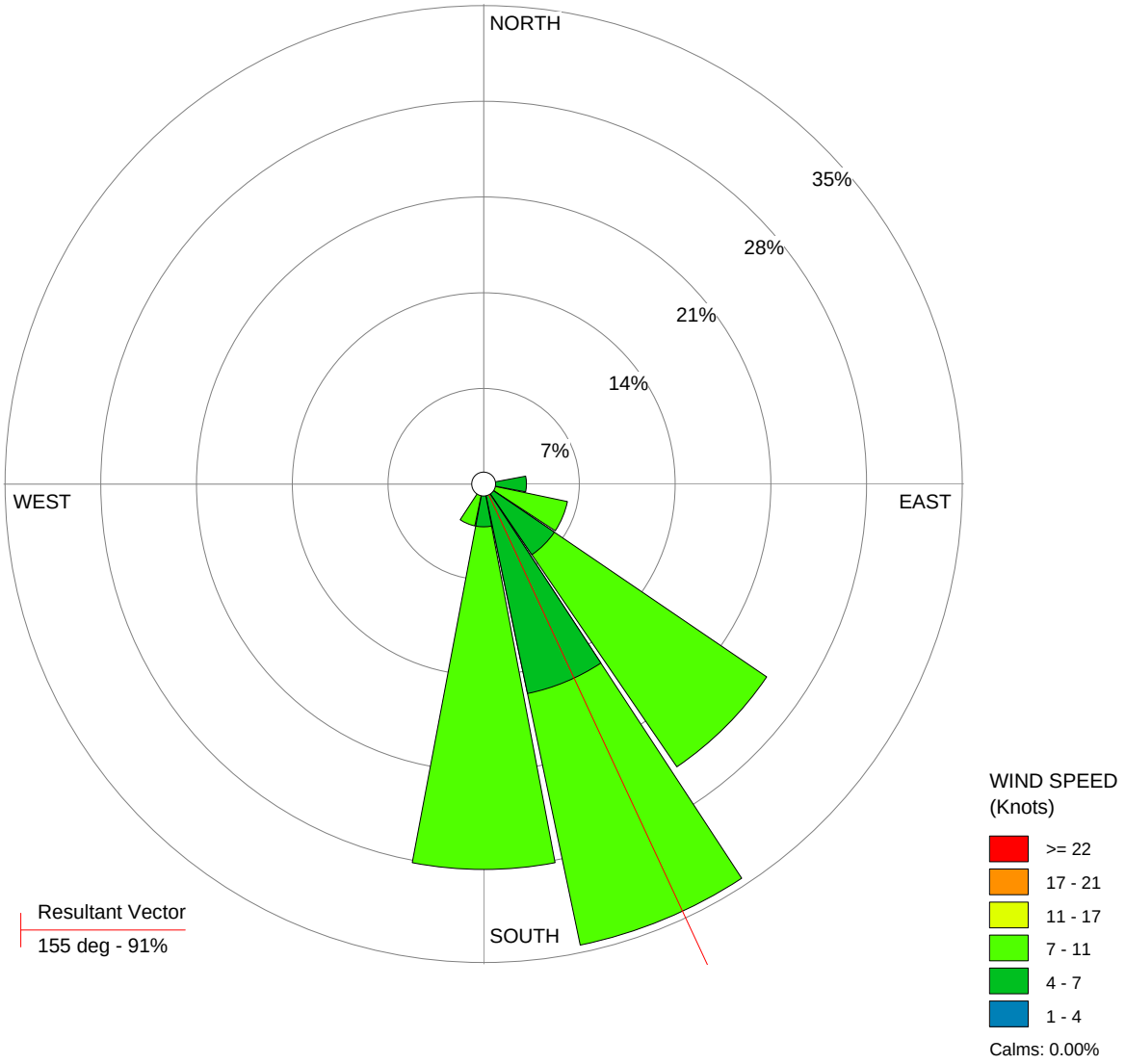
Projection System: *UTM Zone 14* **Coordinate System:** *WGS84* **Print Date:** *5/1/2013*

WIND ROSE PLOT:

Wind Speed and Direction 4/30/2013 07:00 to 5/1/2013 7:00
West, Tx

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:

Met Station: KACT Waco, TX

COMPANY NAME:

CTEH

MODELER:

Jason Callahan

CALM WINDS:

0.00%

AVG. WIND SPEED:

7.53 Knots

PROJECT NO.:

40442 - OMI

WRPLOT View - Lakes Environmental Software