



**40435 – Mayflower Pipeline Incident
ExxonMobil**

**Summary of Air Monitoring
Conducted by CTEH**

April 04, 2013 - 24 hour period

Note: The information provided below has not been processed by the QAQC department.

**Table 1
Community Summary of Manual Real-Time Air Monitoring**

Analyte	Count of Readings	Count of Detections	Average Concentration of Detections	Highest Concentration
Benzene	145	0	N/A	< 0.05 ppm
Hydrogen Sulfide	234	0	N/A	< 1 ppm
Toluene	2	0	N/A	< 1 ppm
VOC	310	2	0.1 ppm	0.1 ppm
Xylene	3	0	N/A	< 1 ppm

**Table 2
Work Area Summary of Manual Real-Time Air Monitoring**

Analyte	Count of Readings	Count of Detections	Average Concentration of Detections	Highest Concentration
Benzene	92	4	0.05	0.05 ppm
Hydrogen Sulfide	152	0	N/A	< 1 ppm
Hexane	2	0	N/A	< 1 ppm
LEL	89	0	N/A	< 1 %
Toluene	2	0	N/A	< 1 ppm
VOC	153	24	2.3 ppm	29.0 ppm*
Xylene	2	0	N/A	< 1 ppm

**Table 3
Summary of AreaRAE Real-Time Air Monitoring**

Unit	Analyte	Count of Readings	Count of Detections	Average Concentration of Detections	Highest Concentration
RTU_1 mobile	Hydrogen Sulfide	3918	0	N/A	< 0.1 ppm
	LEL	3918	0	N/A	< 1 %
	VOC	3918	10	0.1 ppm	0.2 ppm
RTU_2 fixed	Hydrogen Sulfide	1279	0	N/A	< 0.1 ppm
	VOC	1279	22**	1.1 ppm**	1.7 ppm**
RTU_5 fixed	Hydrogen Sulfide	6232	0	N/A	< 0.1 ppm
	LEL	4953	0	N/A	< 1 %
	VOC	6232	39	0.7 ppm	1.7 ppm
RTU_6 fixed	Hydrogen Sulfide	4679	11	0.1 ppm	0.1 ppm
	LEL	4681	0	N/A	< 1 %
	VOC	4681	521	0.3 ppm	2.2 ppm

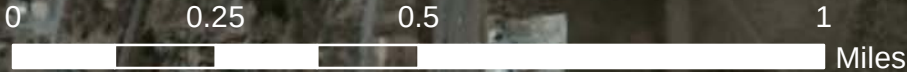
*Details of elevated chemical detections are provided at the end of this document

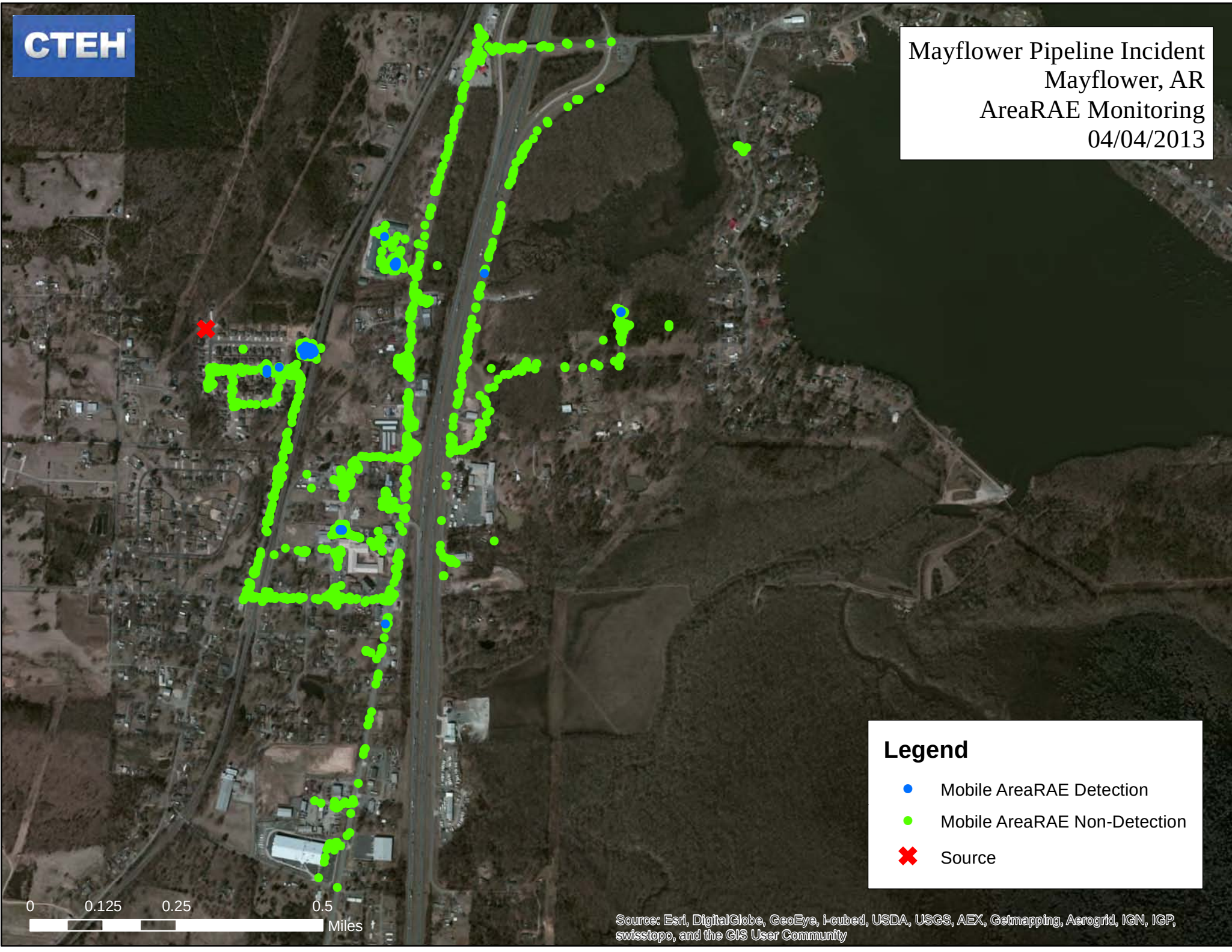
**AreaRAE VOC detections from 15:22-15:30 was confirmed drift with a MultiRAE Plus. The unit was taken offline and recalibrated.



Legend

- ✖ Source
- Benzene Detection
- Detection
- Non-Detection





Legend

- Mobile AreaRAE Detection
- Mobile AreaRAE Non-Detection
- ✕ Source

0 0.125 0.25 0.5 Miles

29.0 VOC ppm detected at 14:33 on 4/4/2013 in work area. Readings were not sustained.

Field Data

Project number: 40435
Reading date: 2013/04/04 14:33
Latitude: 34.963835
Longitude: -92.428075
Distance From Site: 0.31
Location description: 100 ft north of between house 36 and 32.
Indoor/Outdoor: Outdoor
Instrument: MultiRAE
Instrument barcode: 095-515976
Matrix: Air
Analyte: VOC
Concentration: 29.0
Units: ppm
Comments: Visible Oil; Workers present; Moderate Odor;
Initials: Kyle Bennett
Additional comments: Workers clearing impacted vegetation. Readings were not sustained.
Detection limit: 0.1
Gps method: Automatic

