

**40355 Braithwaite, LA
Stolthaven Terminal Facility
Summary of Air Monitoring and Sampling Results
September 14, 2012**

This data report discusses real-time air monitoring data collected between September 13th 06:00 and September 14th 06:00 in support of mitigation and remediation operations conducted near Stolthaven's facility near Braithwaite, LA.

Real-time air monitoring during entry activities resulted in reports of detections exceeding the chemical specific action level required for donning of respiratory protection. All workers not present in respiratory protection prior to initiating these tasks were present in respiratory protection during these events until the task was completed, or after air concentrations reached a level below which respiratory protection was required. Workers having VOC detections above the chemical specific action level and not in respiratory protection notified CTEH[®] personnel and took appropriate action to prevent further exposures. One detection of LEL (27.0%) was reported, but the worker noted the detection to be instantaneous. A single detection of methyl acrylate was reported at 2 ppm; workers were present in respiratory protection.

Real-time air monitoring for VOCs, LEL, formic acid, methyl acrylate, and styrene was conducted using stationary AreaRAEs and hand-held instruments such as the MultiRAE, and colorimetric detector tubes. Table 1 and Table 2 display data summaries for AreaRAE and handheld MultiRAE data respectively. Appendix 1 shows incident site maps.

**Table 1
AreaRAE Summary – September 13th 06:00 to September 14th 06:00**

Unit	Analyte	Number of Readings	Number Of Detections	Concentration Range
Unit 1	LEL	5197	0	0.0 – 0.0 %
	VOC	5197	14	0.1 – 0.2 ppm
Unit 2	LEL	4922	0	0.0 – 0.0 %
	VOC	4922	0	0.0 – 0.0 ppm
Unit 3	LEL	5517	0	0.0 – 0.0 %
	VOC	5517	634	0.1 – 0.4 ppm
Unit 4	LEL	5529	0	0.0 – 0.0 %
	VOC	5529	26	0.1 – 0.1 ppm
Unit 9	LEL	5550	0	0.0 – 0.0 %
	VOC	5550	1	0.1 – 0.1 ppm
Unit 11	LEL	5001	0	0.0 – 0.0 %
	VOC	5001	3	0.3 – 2.9 ppm
Unit 12	LEL	5480	194	2.3 – 3.4 %
	VOC	5480	469	0.1 – 0.2 ppm
Unit 13	LEL	5433	0	0.0 – 0.0 %
	VOC	5433	1	0.8 – 0.8 ppm

***Detections may include drift events** - 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.

**Table 2
Hand-held MultiRAE Real-time Summary – September 13th 06:00 – September 14th 06:00**

Community				
Analyte	Number of Readings	Number of Detections	Average Concentration of Detections	Highest Concentration
LEL	196	0	NA	< 1.0 %
VOC	199	0	NA	< 0.1 ppm
Entry Activities				
Analyte	Number of Readings	Number of Detections	Average Concentration of Detections	Highest Concentration
Formic Acid	1	0	NA	<0.52 ppm
LEL	342	1	27.0%	27.0 %
VOC	518	19	53.5 ppm	330 ppm
Methyl Acrylate	1	1	2.0 ppm	2.0 ppm
Work Area				
Analyte	Number of Readings	Number of Detections	Average Concentration of Detections	Highest Concentration
LEL	174	0	NA	< 1.0 %
VOC	174	0	NA	< 0.1 ppm

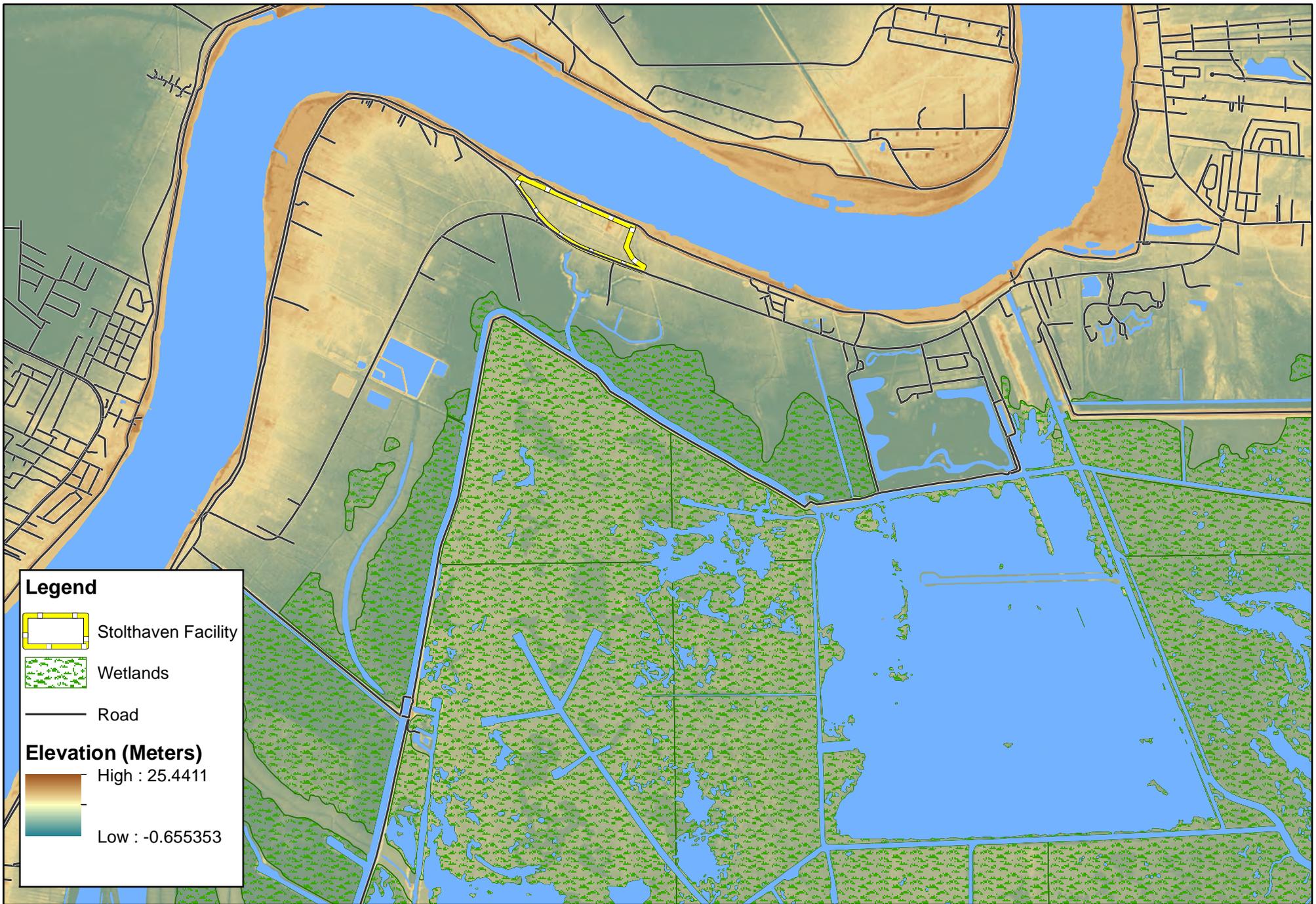
NA = not applicable

* In addition to the tabulated real-time data, additional air monitoring for the purpose of worker protection was performed throughout the work area. These data are used for task-specific decision-making, but may not be recorded in the tabulated data represented above.

References:

LDEQ. Title 33: Environmental Quality. Part III. Air. Baton Rouge, LA: Louisiana Department of Environmental Quality; 2007 Jun.

Appendix 1: Incident Maps



**Stolthaven Facility
Shaded Relief of Elevation**



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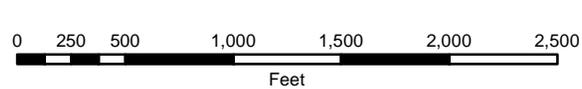
**Garner Environmental
Braithwaite, LA**
Plaquemines Parish
Print Date: 9/11/2012



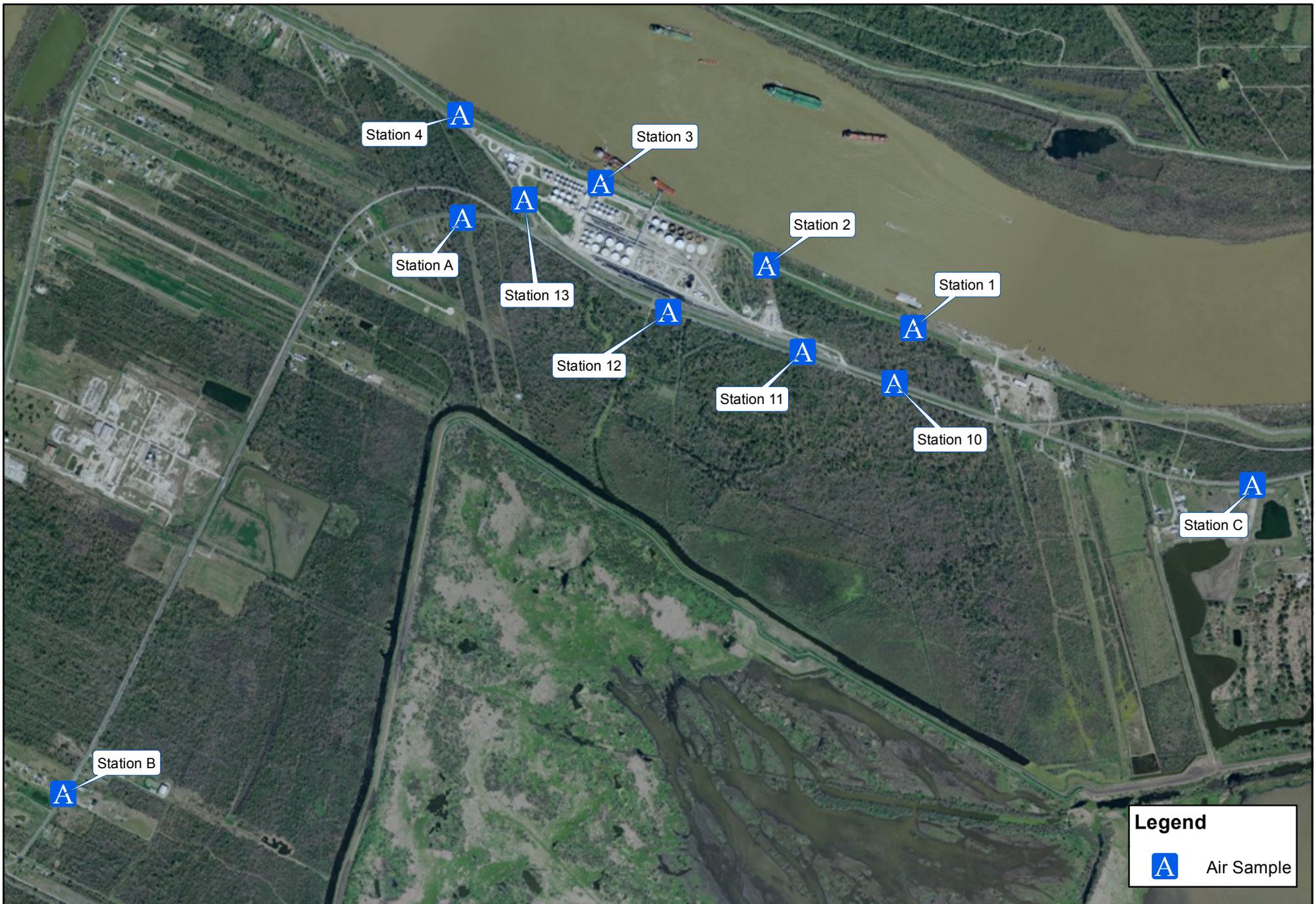
Legend

 AreaRAE Station

AreaRAE Station Locations
September 13, 2012



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Legend

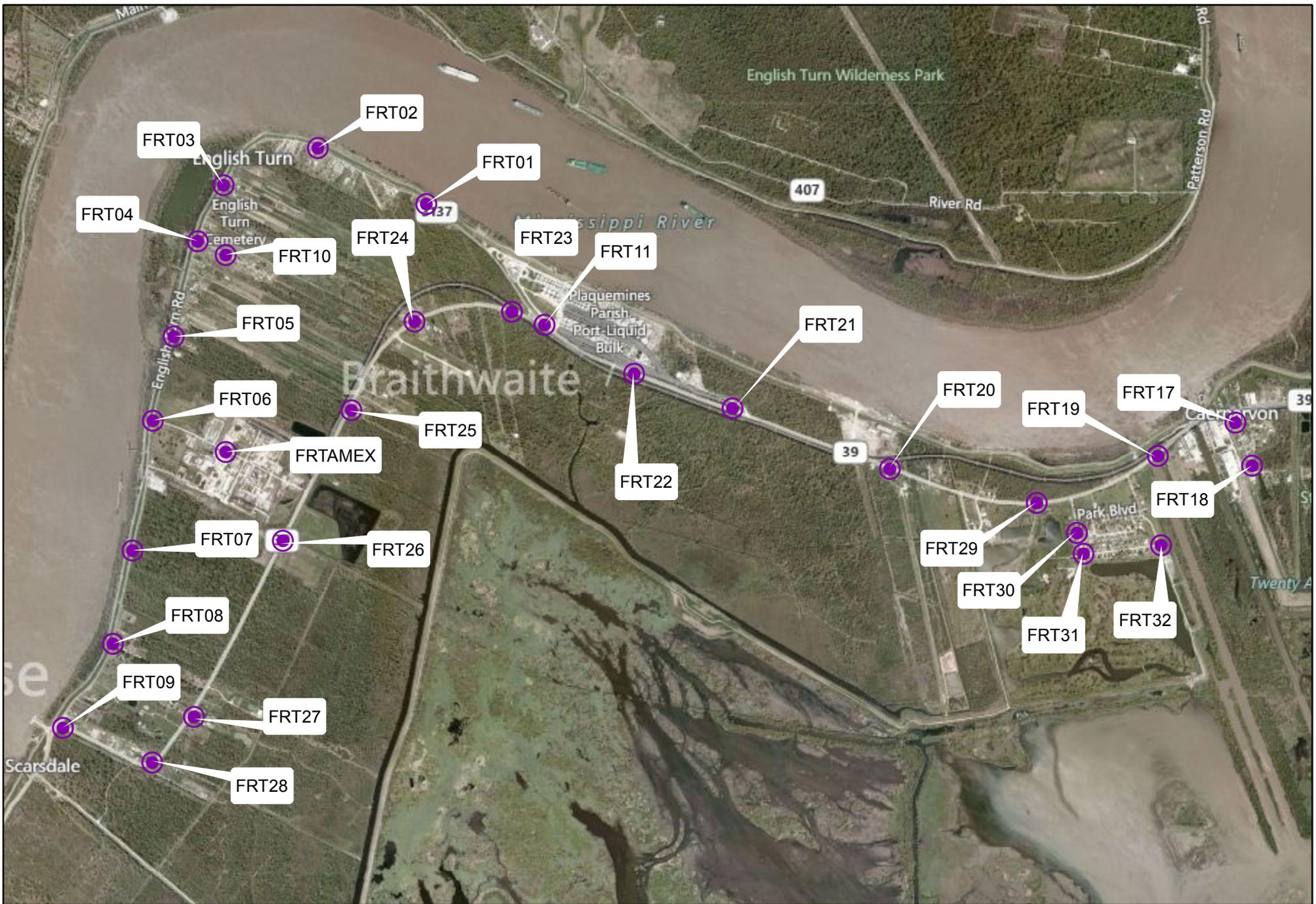
 Air Sample

**Analytical Air
Sampling Locations**

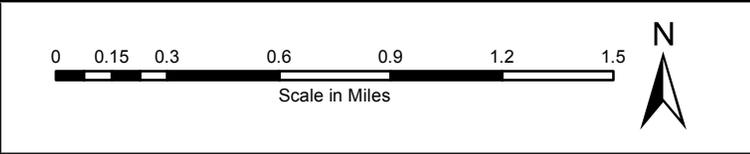


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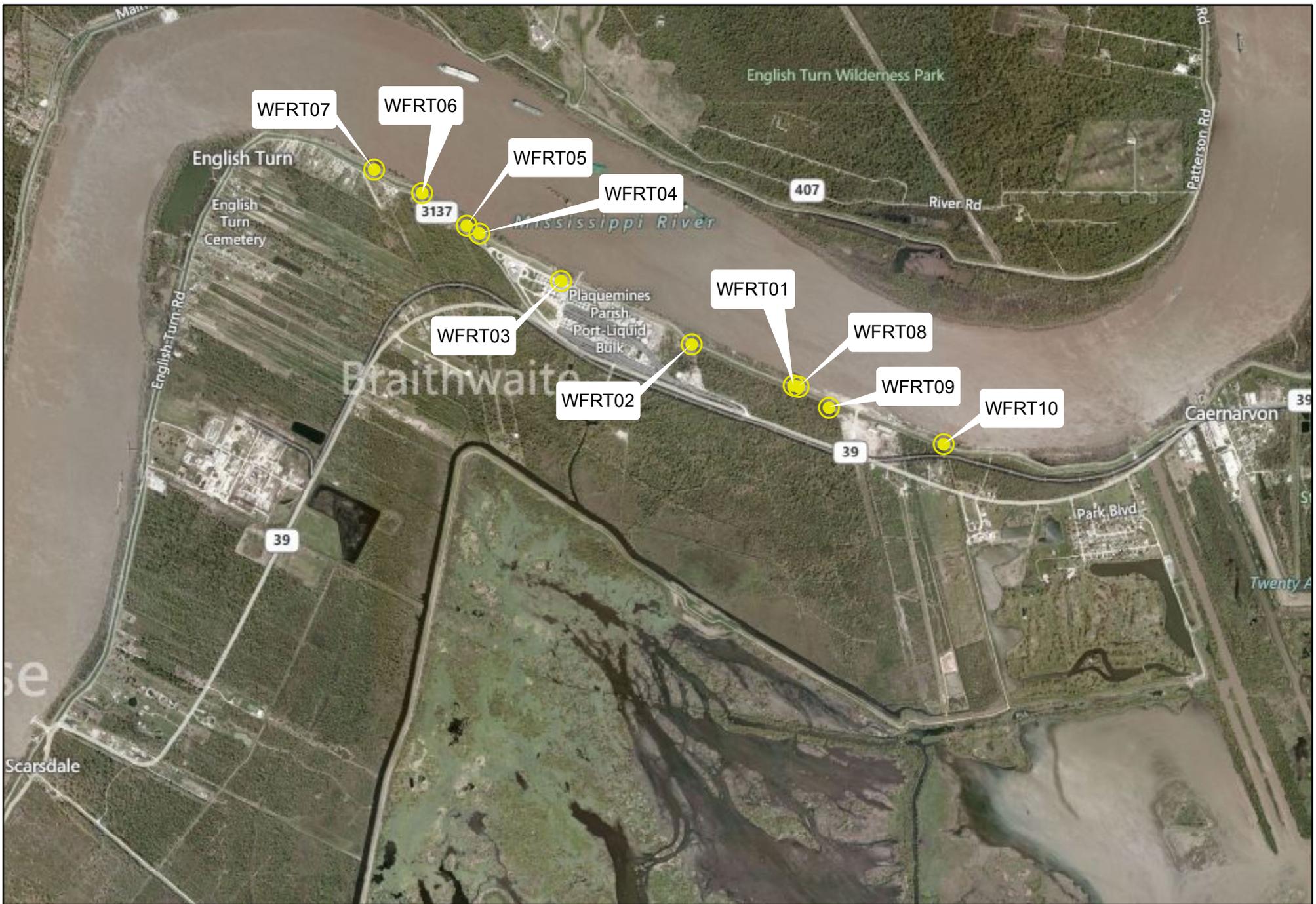
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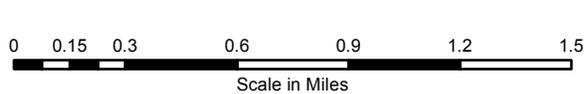
Community Fixed Real-Time Monitoring Locations



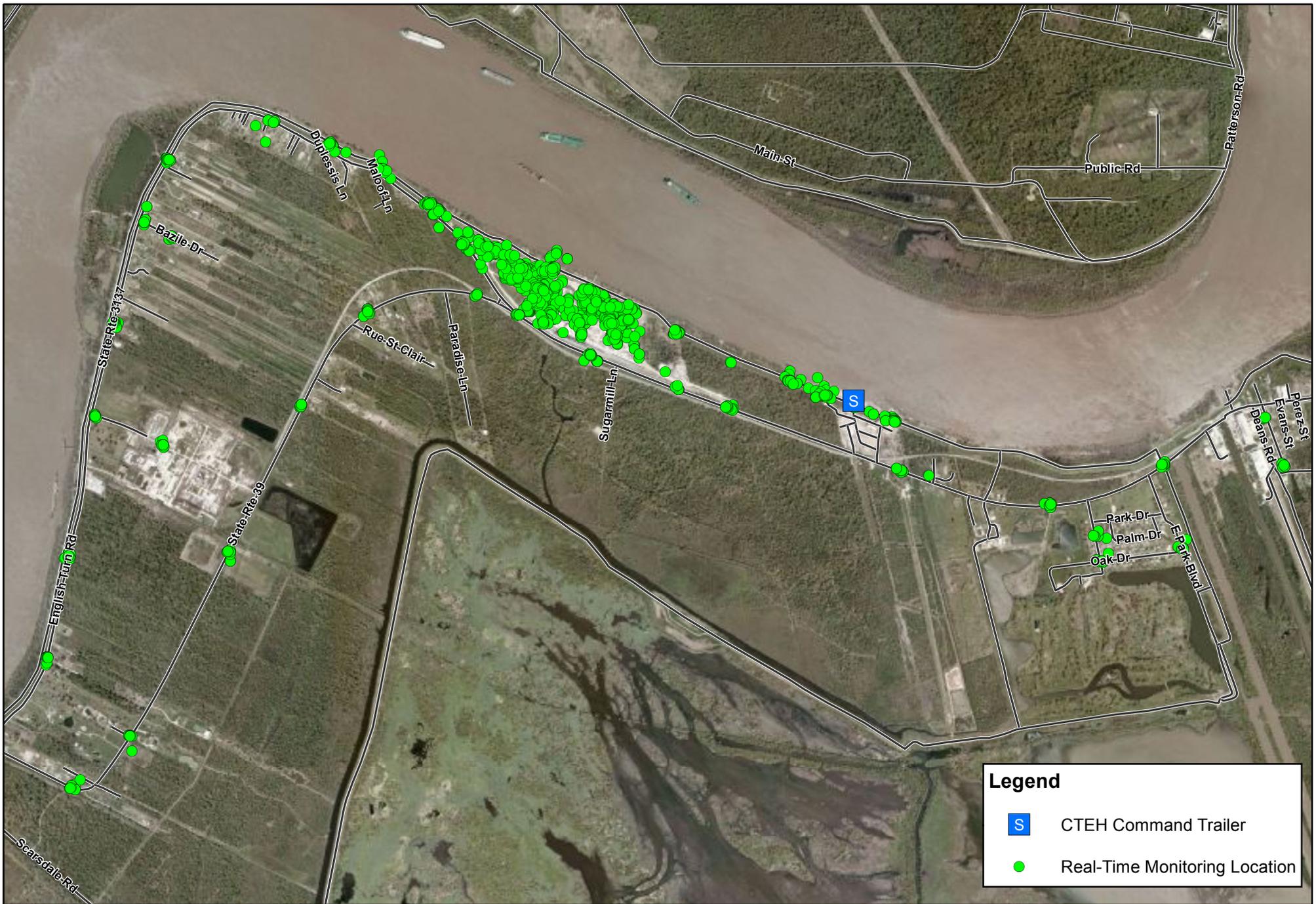
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Work Area Fixed Real-Time Monitoring Locations



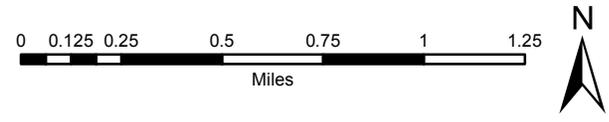
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- S CTEH Command Trailer
- Real-Time Monitoring Location

Real-Time Monitoring Locations
 9/13/12 06:00 to 9/14/12 06:00



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Legend

VOC Concentration

- <0.1 ppm
- 0.1 - 2 ppm
- 3 - 10 ppm
- 11 - 40 ppm
- >40 ppm

**Manually-Logged
VOC Concentrations**
9/13/12 06:00 to 9/14/12 06:00



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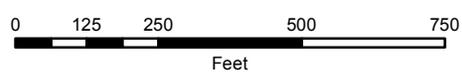


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Methyl Acrylate Reading Location

- Detection
- No Detection

**Methyl Acrylate
Reading Locations**
9/13/12 06:00 to 9/14/12 06:00



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