

**40365 Braithwaite, LA
Stolthaven Terminal Facility
Summary of Community Air Monitoring and Sampling Results
October 4, 2012
PO# 12-H0408-MR**

This data report discusses community real-time air monitoring data collected between October 3rd 00:00 and October 3rd 23:59 in support of mitigation and remediation operations conducted near Stolthaven’s facility near Braithwaite, LA.

Community real-time air monitoring was conducted for VOCs, LEL, and formic acid using stationary AreaRAEs and/or hand-held instruments such as the MultiRAE and colorimetric detector tubes. Table 1 and Table 2 below display data summaries for AreaRAEs and hand-held instrument data, respectively. While stationary AreaRAE results indicate detections of VOCs at three AreaRAE units, these results are preliminary and may include drift in the instrument’s sensor. Additionally, these AreaRAE instruments are located adjacent to roads and are subject to detecting products of combustion due to vehicular emissions. No VOCs, formic acid or LEL detections were observed within the community using real-time handheld or colorimetric tubes. Table 3 highlights analytical sample counts collected within air and residential soil. Appendix 1 shows incident site maps.

**Table 1
AreaRAE Summary – October 3rd 00:00 – 23:59**

Unit	Analyte	Number of Readings	Number Of Detections	Concentration Range
Unit 1	VOC	4429	0	0 - 0 ppm
Unit 2	VOC	5612	1	0.8 - 0.8 ppm
Unit 3	VOC	4435	2	0.1 - 0.4 ppm
Unit 4	VOC	4453	23	0.1 - 0.8 ppm
Unit 10	VOC	4302	0	0 - 0 ppm
Unit 11	VOC	4342	0	0 - 0 ppm
Unit 12	VOC	4425	0	0 - 0 ppm
Unit 13	VOC	4148	0	0 - 0 ppm

***Detections may include drift events** - Drift is defined as any interference in the 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 Real-time Summary – October 3rd 00:00 – 23:59

Community				
Analyte	Number of Readings	Number of Detections	Average Concentration of Detections	Highest Concentration
Formic Acid	4	0	NA	<0.52 ppm
LEL	309	0	NA	< 1.0 %
VOC	308	0	NA	< 0.1 ppm

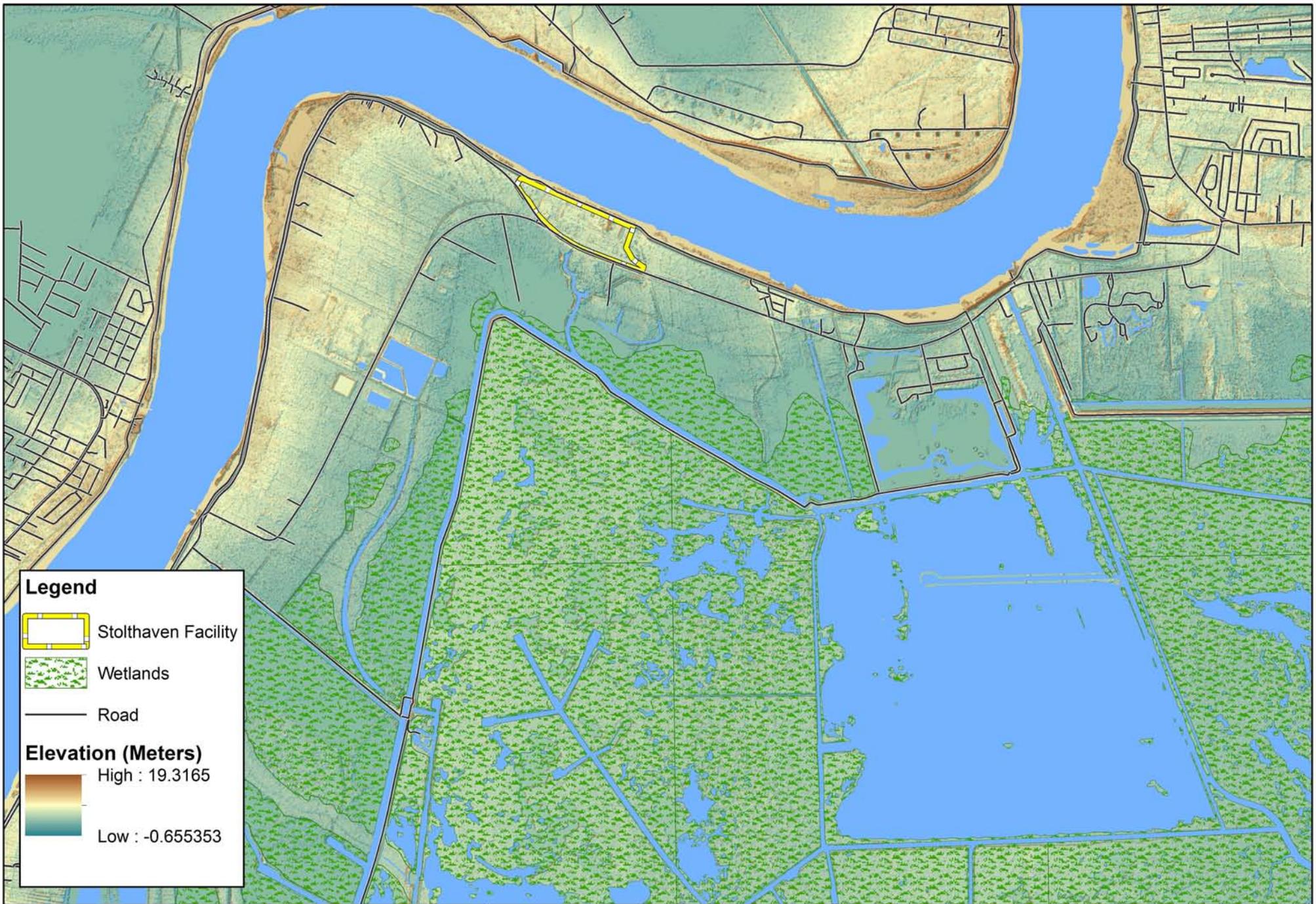
NA = not applicable

* 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.

Table 3
Analytical Sample Counts – October 3rd 00:00 – 23:59

Matrix	Number of Samples
Air	44
Residential Soil	11

Appendix 1: Incident Maps



Legend

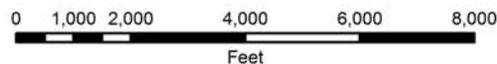
-  Stolthaven Facility
-  Wetlands
-  Road

Elevation (Meters)

High : 19.3165

Low : -0.655353

**Stolthaven Facility
Shaded Relief of Elevation**



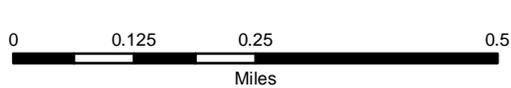
CTEH <small>Project No. 40355</small>	Stolthaven
	Braithwaite, LA
	Plaquemines Parish
Print Date: 9/17/2012	



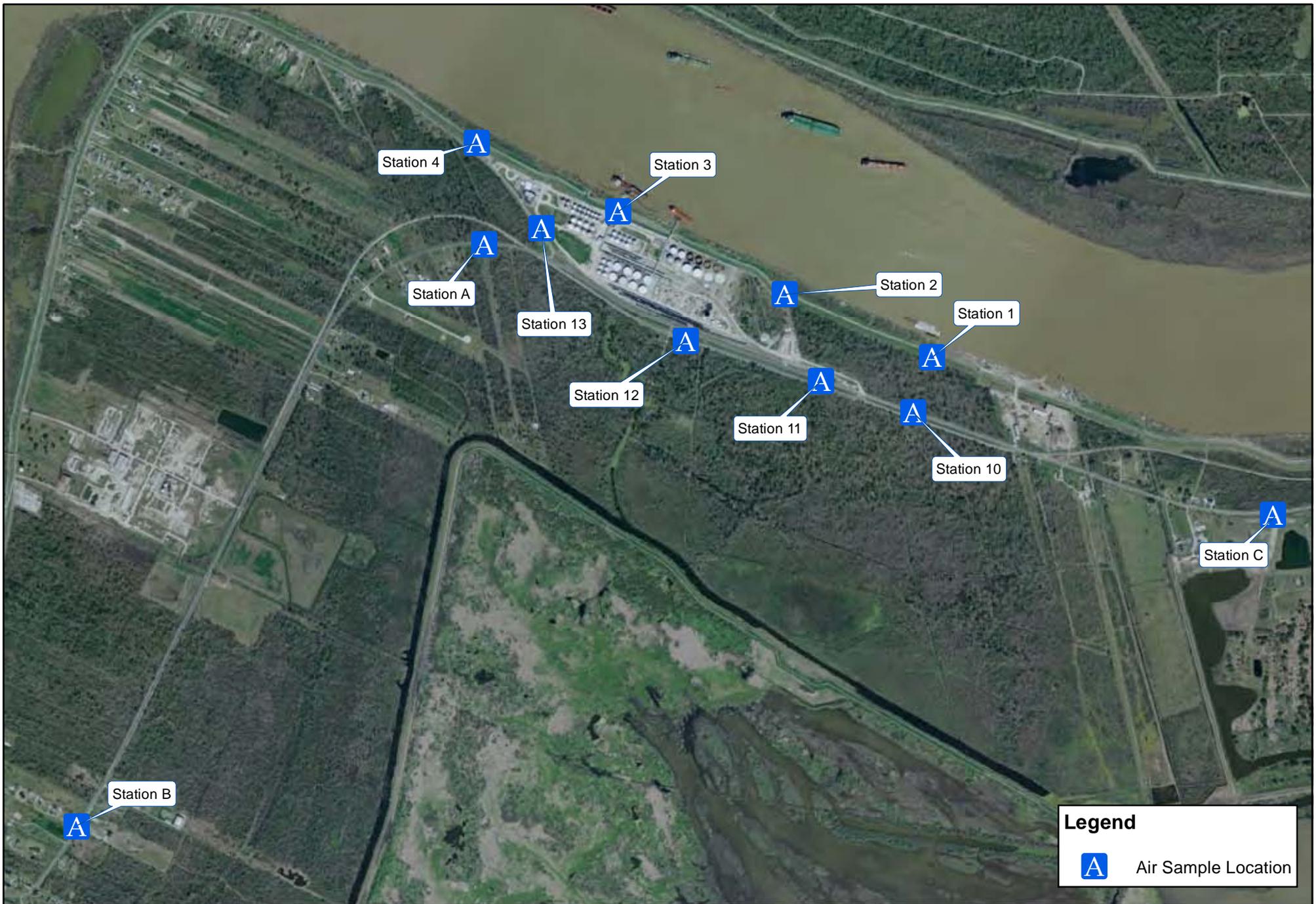
Legend

 AreaRAE Station

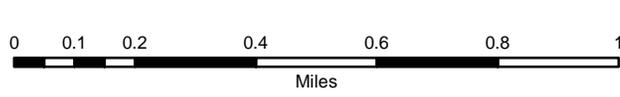
**Community
AreaRAE Station Locations**
September 21, 2012



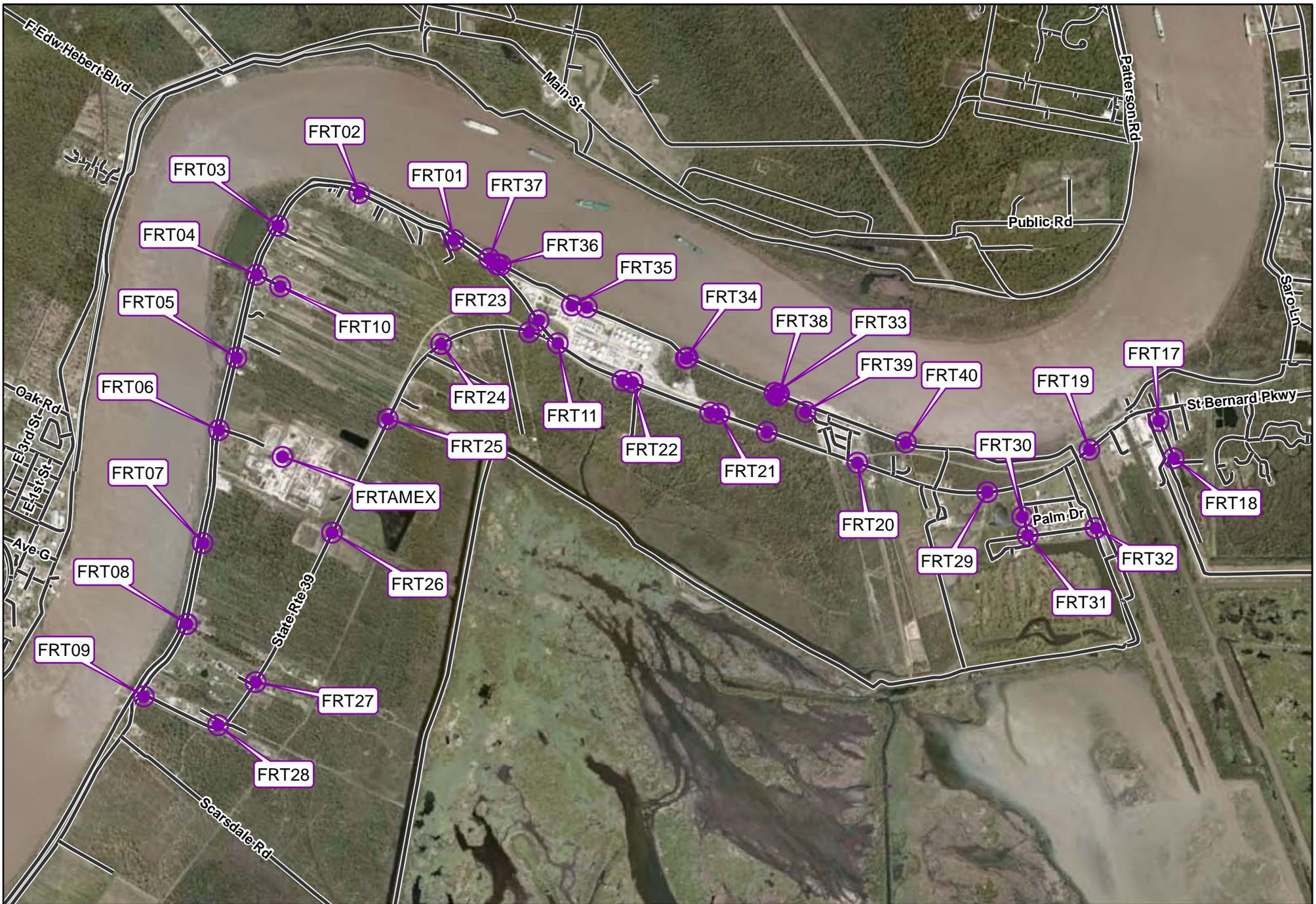
 Project No. 40365	Stolthaven Braithwaite, LA
	Plaquemines Parish Print Date: 9/26/2012



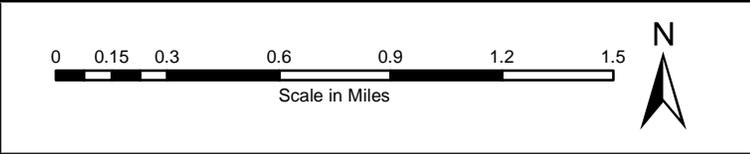
**Ambient Air
Analytical Sampling Locations**



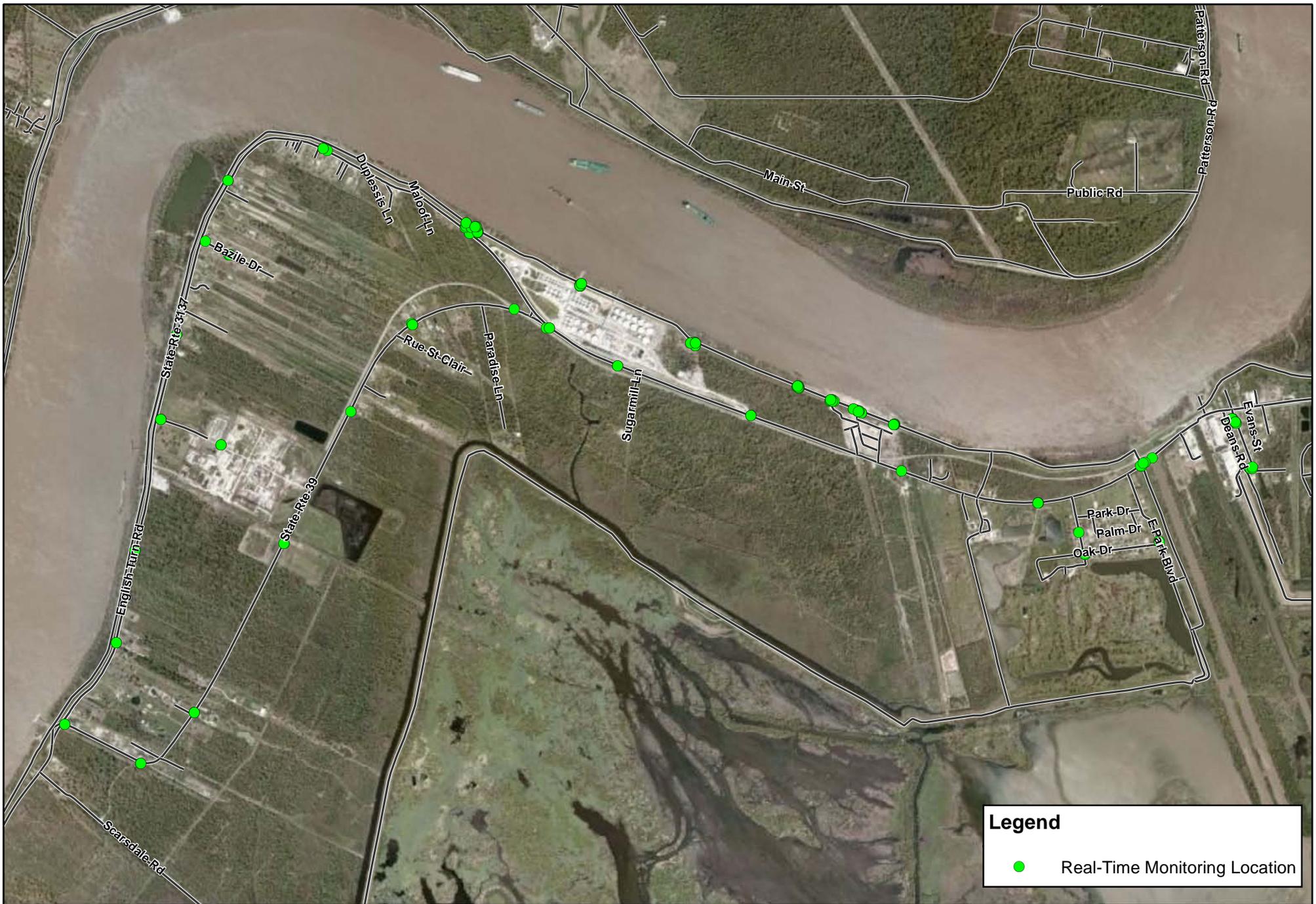
 Project No. 40365	Stolt Haven Braithwaite, LA
	Plaquemines Parish Print Date: 9/28/2012



Community Fixed Real-Time Monitoring Locations



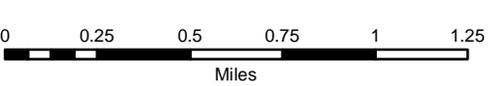
	Stolthaven
	Braithwaite, LA
Project No. 40365	Plaquemines Parish
	Print Date: 9/26/2012



Legend

- Real-Time Monitoring Location

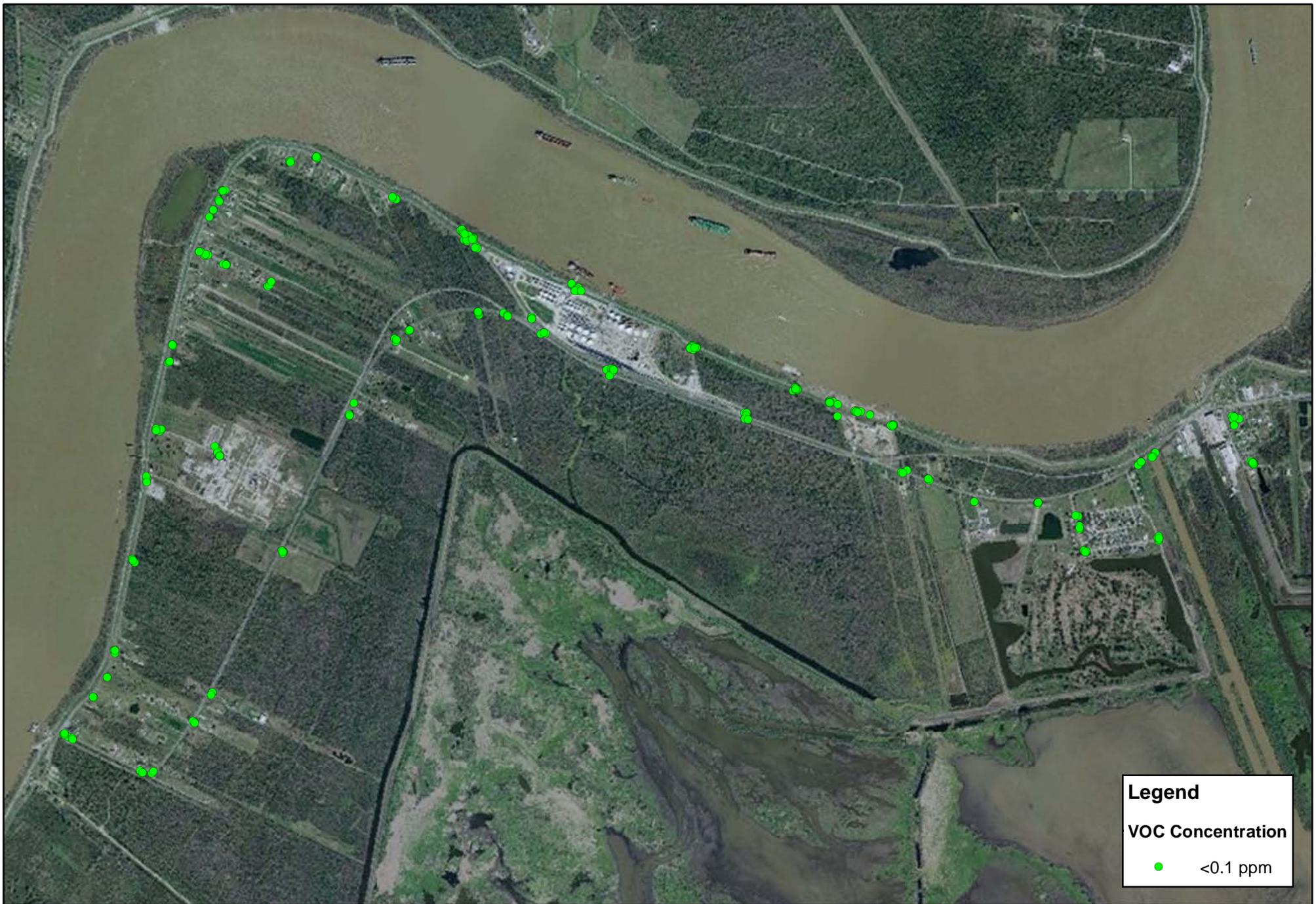
Community Real-Time Monitoring Locations
10/04/2012



Project No.
40365

Stolthaven
Braithwaite, LA

Plaquemines Parish
Print Date: 10/4/2012

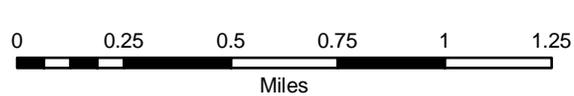


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VOC Concentration

● <0.1 ppm

**Manually-Logged
Community VOC Concentrations**
10/03/2012



 Project No. 40365	Stolthaven Braithwaite, LA
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