

**40365 Braithwaite, LA
Stolthaven Terminal Facility
Onsite Summary of Air Monitoring and Sampling Results
October 8, 2012
PO# 12-H0408-MR**

This data report discusses real-time air monitoring data collected within the work area between October 7th 00:00 and October 7th 23:59 in support of mitigation and remediation operations conducted near Stolthaven’s facility near Braithwaite, LA.

Real-time air monitoring conducted within the work area using hand-held instruments indicated that there was one onsite VOC detection on October 7th (2.1 ppm). No sustained readings in exceedence of action levels were observed on the facility while workers were present. While stationary AreaRAE results indicate detections of VOCs at 8 locations within the work area, these results are preliminary and may include drift in the instrument’s chemical sensors. AreaRAE Unit 17 and Unit 21 reported detections of LEL; however, upon CTEH[®] investigation, these LEL detections were following unit calibration. The units were fresh air calibrated and no further LEL detections were observed.

Real-time air monitoring for VOCs and LEL was conducted using stationary AreaRAEs and/or hand-held instruments including the MultiRAE. Table 1 and Table 2 display data summaries for hand-held instruments and AreaRAEs, respectively. Table 3 highlights analytical sample counts collected for onsite air, product quality and waste characterization. Appendix 1 shows incident site maps.

**Table 1
Hand-held Real-time Summary – October 7th 00:00 – 23:59**

Work Area				
Analyte	Number of Readings	Number of Detections	Average Concentration of Detections	Highest Concentration
LEL	803	0	NA	< 1.0 %
VOC	806	1	2.1 ppm	2.1 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 2
AreaRAE Summary – October 7th 00:00 – 23:59**

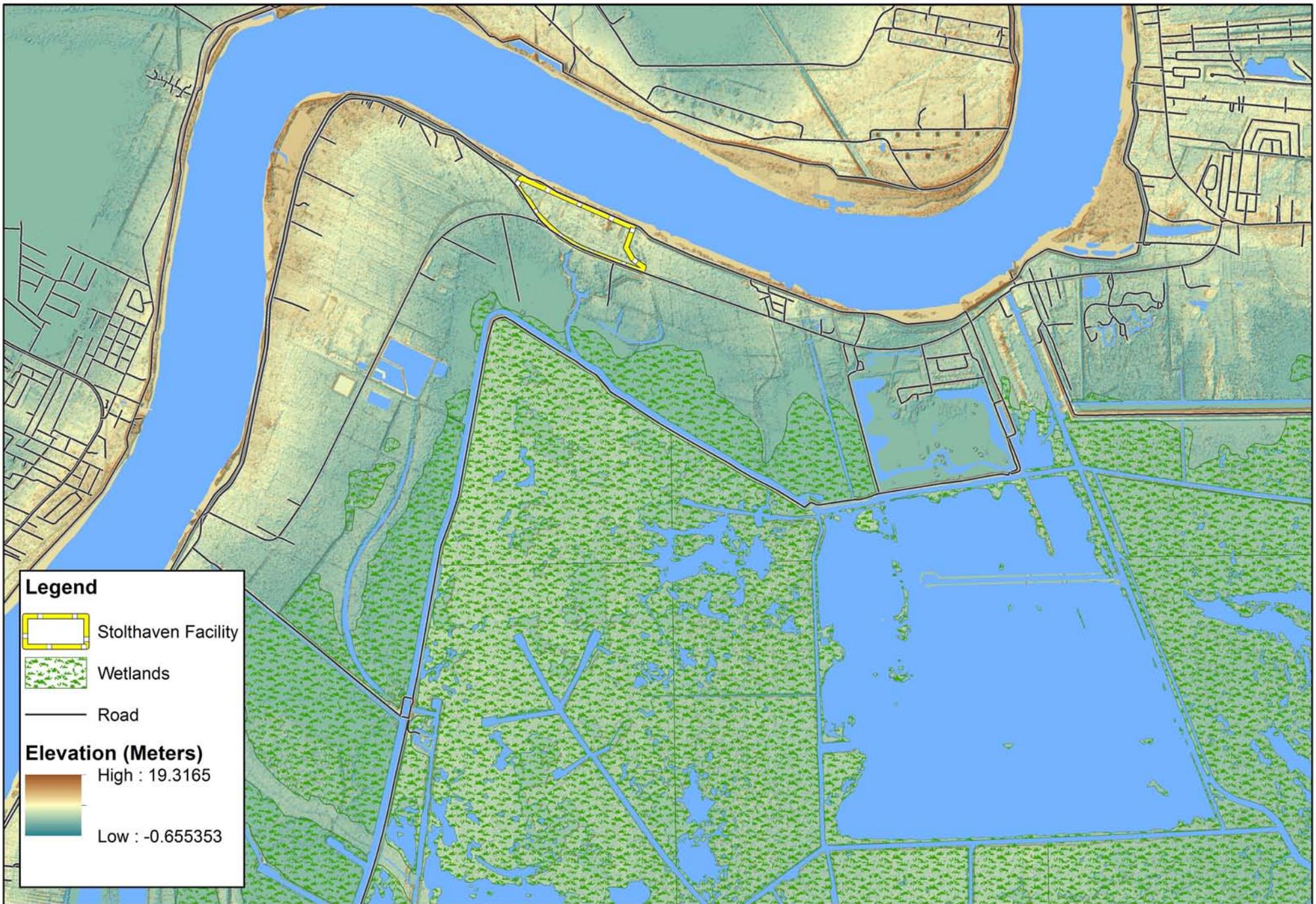
Unit	Analyte	Number of Readings	Number Of Detections	Concentration Range
Unit 14	LEL	5634	0	0 - 0 %
	VOC	5634	0	0 - 0 ppm
Unit 15	LEL	5687	0	0 - 0 %
	VOC	5687	0	0 - 0 ppm
Unit 16	LEL	5580	0	0 - 0 %
	VOC	5580	0	0 - 0 ppm
Unit 17	LEL	5624	12	3.8 - 5.4 %
	VOC	5624	12	3.2 - 9.5 ppm
Unit 18	LEL	5612	0	0 - 0 %
	VOC	5612	17	0.1 - 0.9 ppm
Unit 19	LEL	5675	0	0 - 0 %
	VOC	5675	12	0.1 - 0.1 ppm
Unit 20	LEL	5658	0	0 - 0 %
	VOC	5658	25	0.1 - 0.2 ppm
Unit 21	LEL	5619	1	0.1 - 0.1 %
	VOC	5619	96	0.1 - 0.4 ppm
Unit 22	LEL	5588	0	0 - 0 %
	VOC	5588	17	0.1 - 0.2 ppm
Unit 23	LEL	5600	0	0 - 0 %
	VOC	5600	154	0.1 - 0.5 ppm
Unit 24	LEL	5655	0	0 - 0 %
	VOC	5655	0	0 - 0 ppm
Unit 25	LEL	5481	0	0 - 0 %
	VOC	5481	54	0.1 - 0.7 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 3
Analytical Sample Counts – October 7th 00:00 – 23:59

Matrix	Number of Samples
Air	4
Product Quality	0
Waste Characterization	0

Appendix 1: Incident Maps



Legend

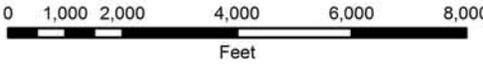
-  Stolthaven Facility
-  Wetlands
-  Road

Elevation (Meters)

High : 19.3165

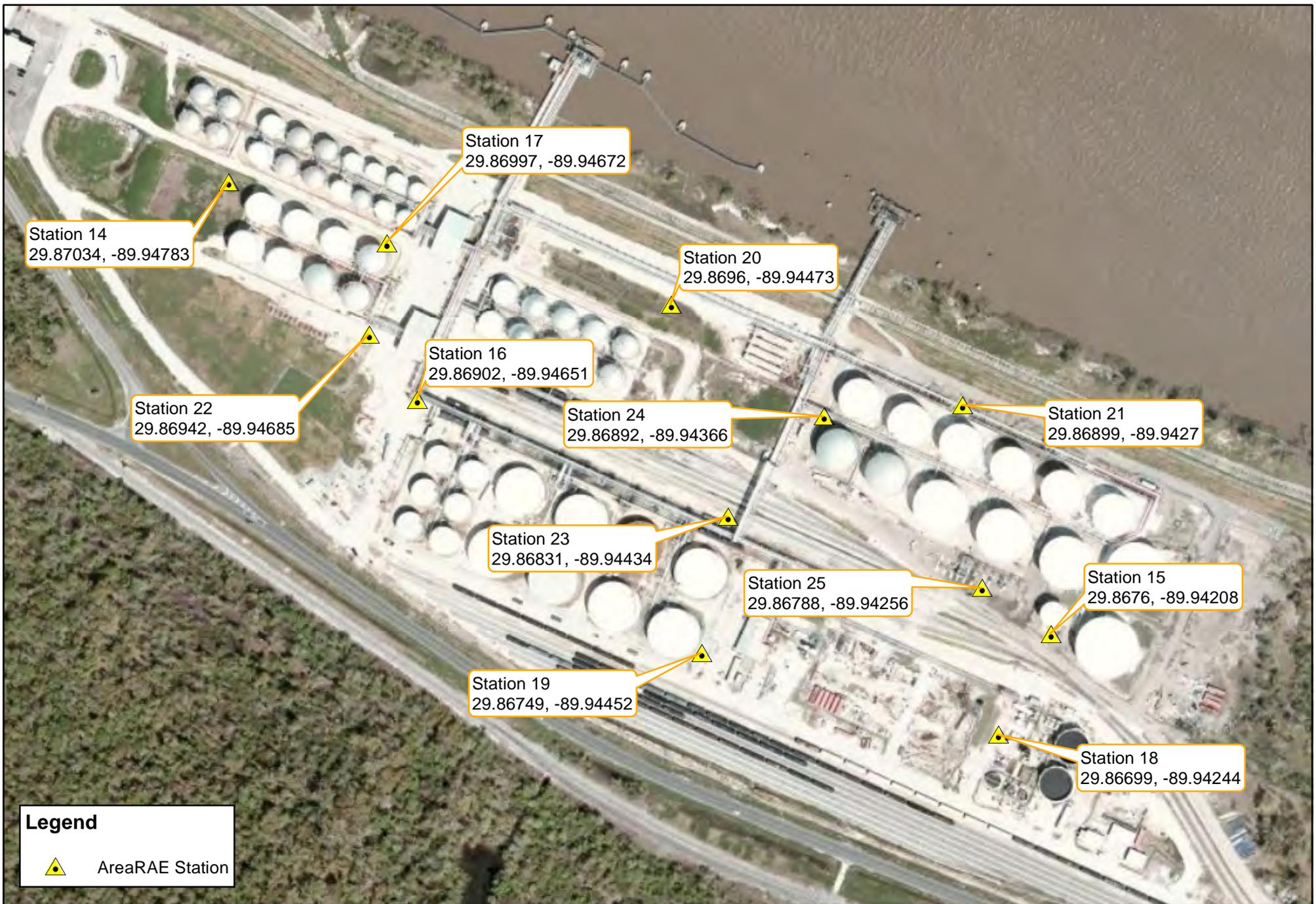
Low : -0.655353

**Stolthaven Facility
Shaded Relief of Elevation**



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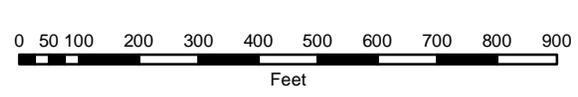
**Stolthaven
Braithwaite, LA**
Plaquemines Parish
Print Date: 10/6/2012



Legend

 AreaRAE Station

Work Area
AreaRAE Station Locations
 September 21, 2012



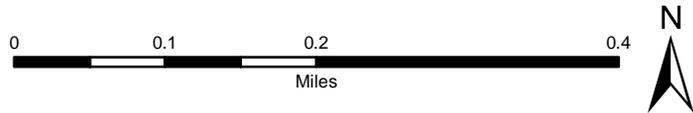
 Project No. 40365	Stolthaven Braithwaite, LA
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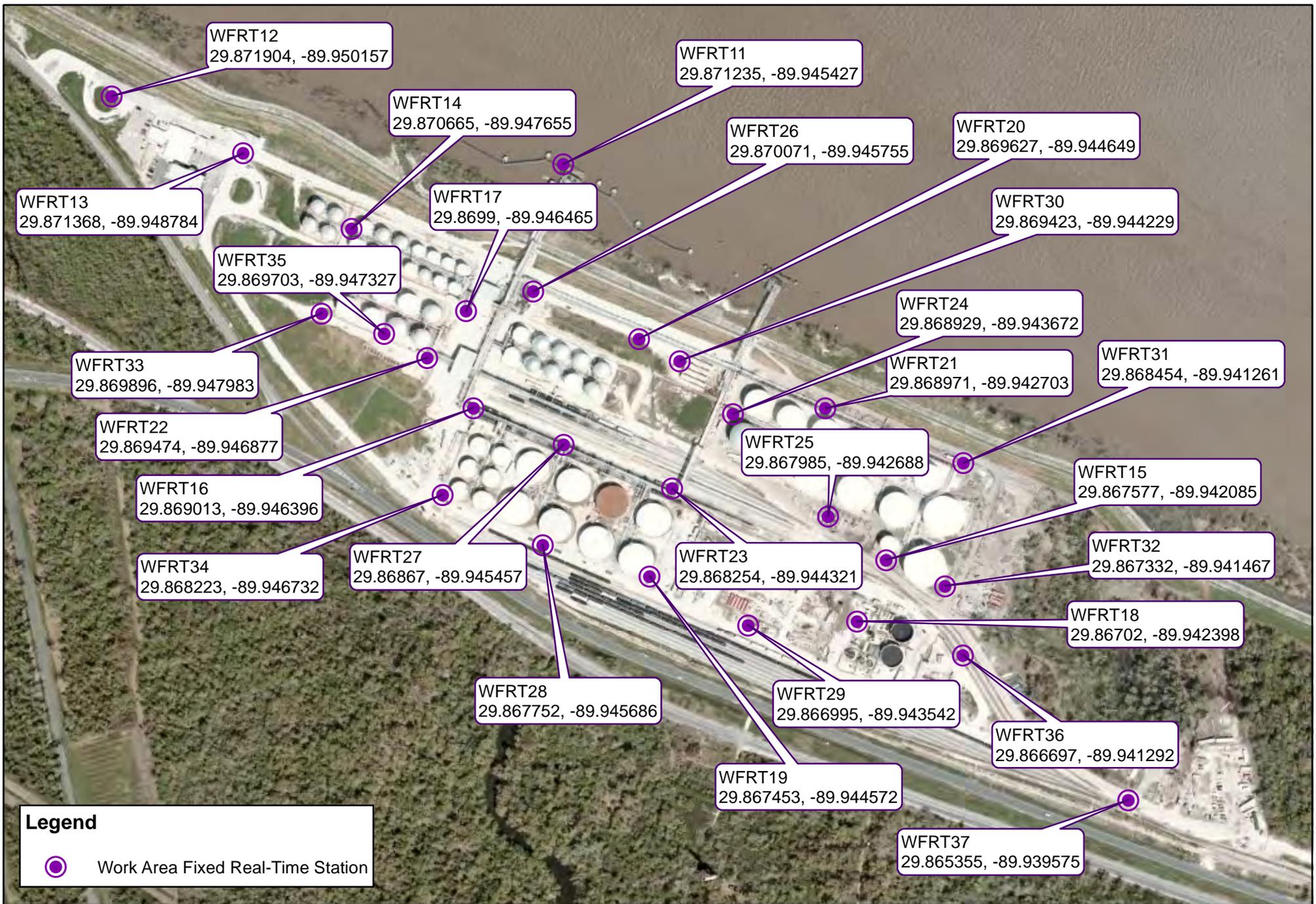
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 Air Sample Location

**Ambient Air
Analytical Sampling Locations**



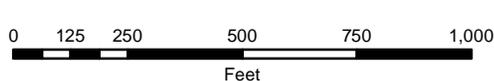
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	Print Date: 9/28/2012



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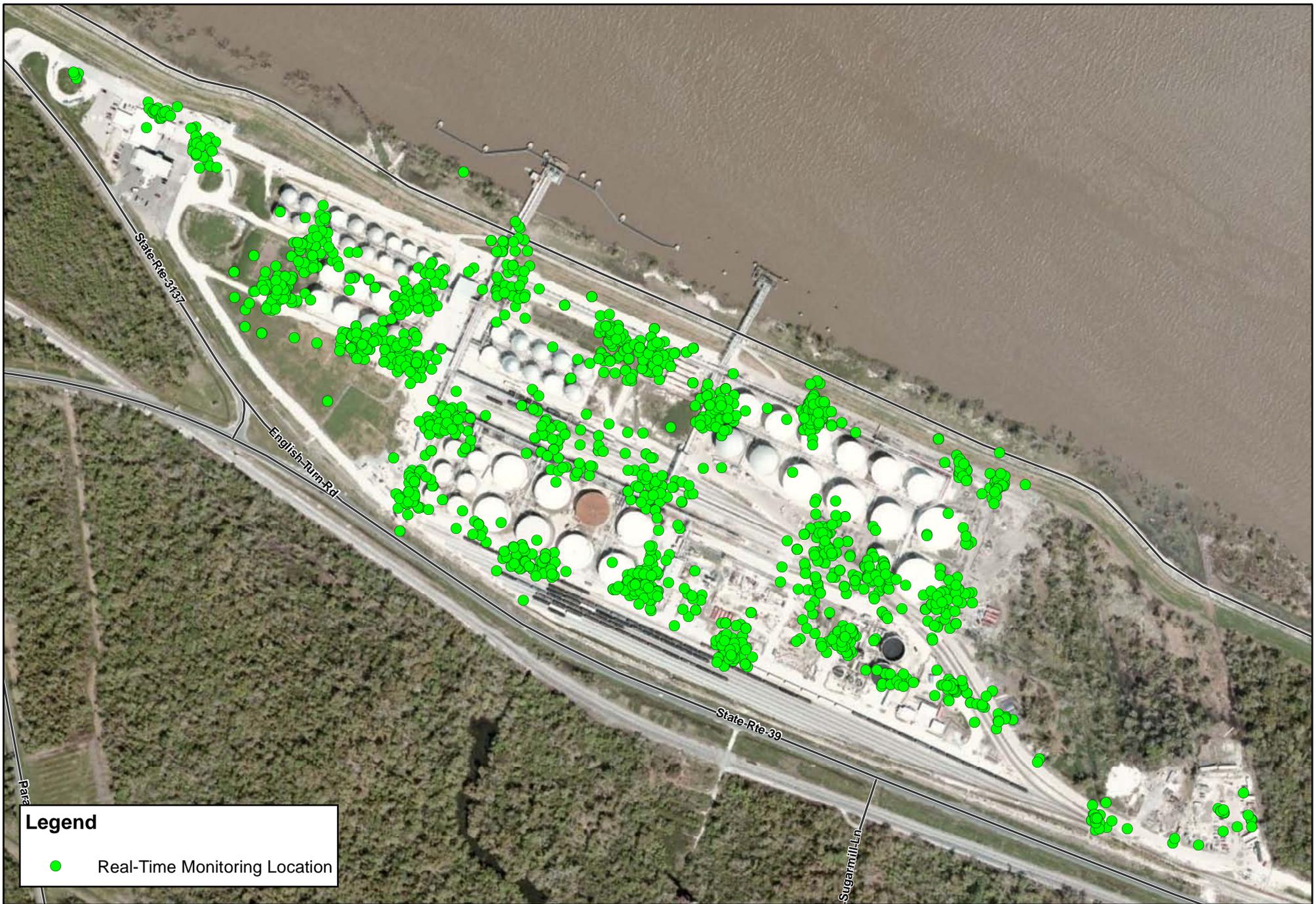
 Work Area Fixed Real-Time Station

**Work Area
Fixed Real-Time Station**
September 21, 2012



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40365

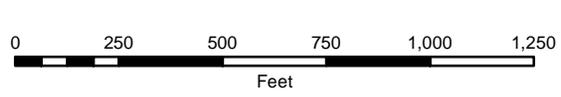
Stolthaven
Braithwaite, LA
Plaquemines Parish
Print Date: 9/28/2012



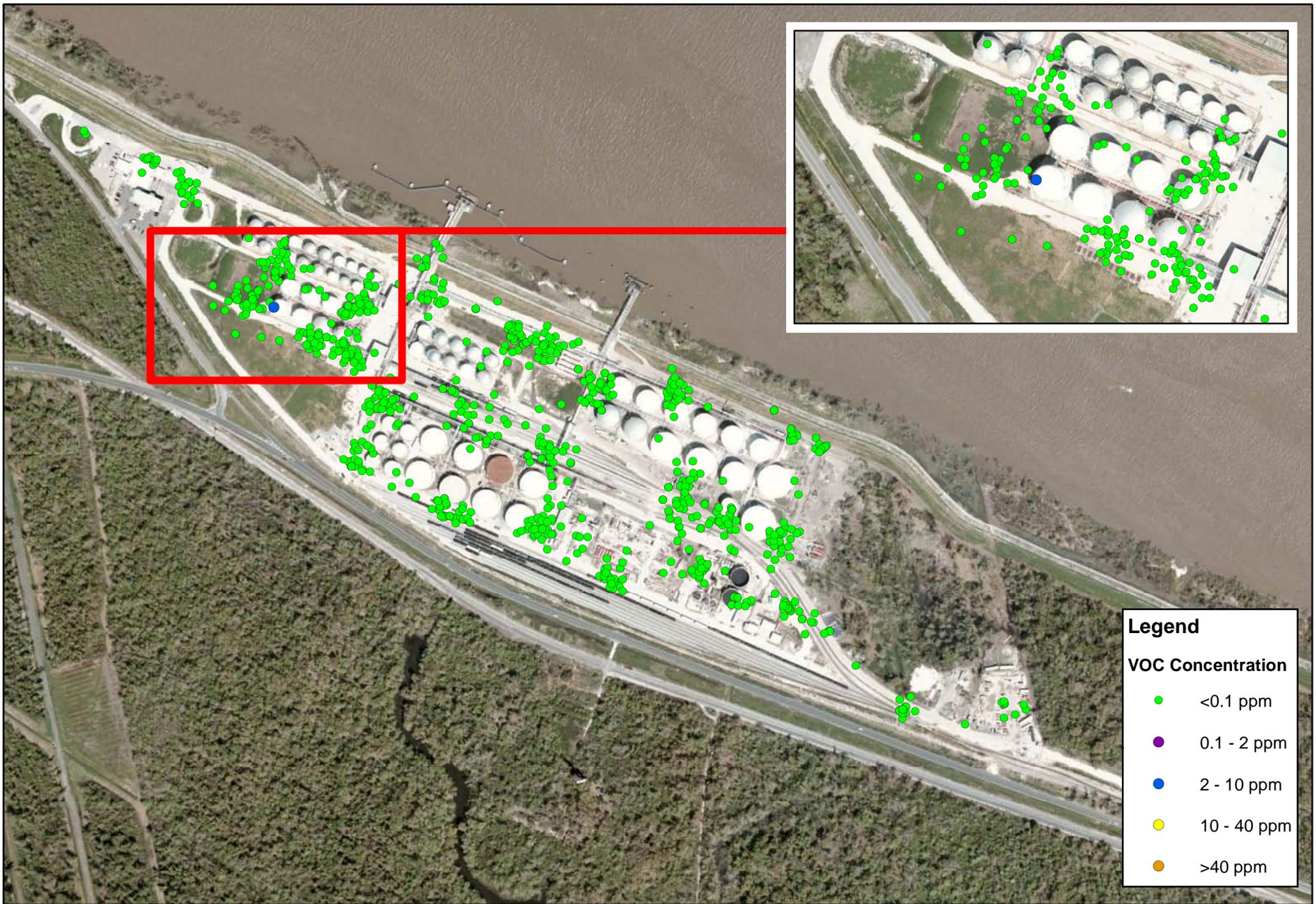
Legend

- Real-Time Monitoring Location

Work Area
Real-Time Monitoring Locations
 10/07/2012



 Project No. 40365	Stolthaven Braithwaite, LA
	Plaquemines Parish Print Date: 10/8/2012

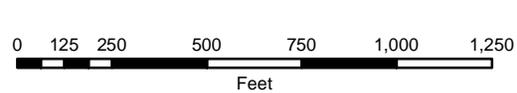


Legend

VOC Concentration

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

**Manually-Logged
Work Area VOC Concentrations**
10/07/2012



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