

**40365 Braithwaite, LA  
Stolthaven Terminal Facility  
Onsite Summary of Air Monitoring and Sampling Results  
October 2, 2012  
PO# 12-H0408-MR**

This data report discusses real-time air monitoring data collected within the work area between October 1<sup>st</sup> 00:00 and October 1<sup>st</sup> 23:59 in support of mitigation and remediation operations conducted near Stolthaven’s facility near Braithwaite, LA.

Real-time hand-held air monitoring reported no VOC detections within the work area on October 1<sup>st</sup>. While stationary AreaRAE results indicate detections of VOCs at 4 locations within the work area, these results are preliminary and may include drift in the instrument’s chemical sensors. If VOC detections were observed at an AreaRAE Station, CTEH® personnel were dispatched to the location for further evaluation.

Real-time air monitoring for VOCs and LEL was conducted using stationary AreaRAEs and/or hand-held instruments including the MultiRAE. When appropriate, a Multi-Rae (11.7 eV lamp) was utilized to monitor for formic acid in areas located near the formic acid scrubber. 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 1<sup>st</sup> 00:00 – 23:59**

<b>Work Area</b>				
<b>Analyte</b>	<b>Number of Readings</b>	<b>Number of Detections</b>	<b>Average Concentration of Detections</b>	<b>Highest Concentration</b>
LEL	709	0	NA	< 1.0 %
VOC	713	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 2  
AreaRAE Summary – October 1<sup>st</sup> 00:00 – 23:59**

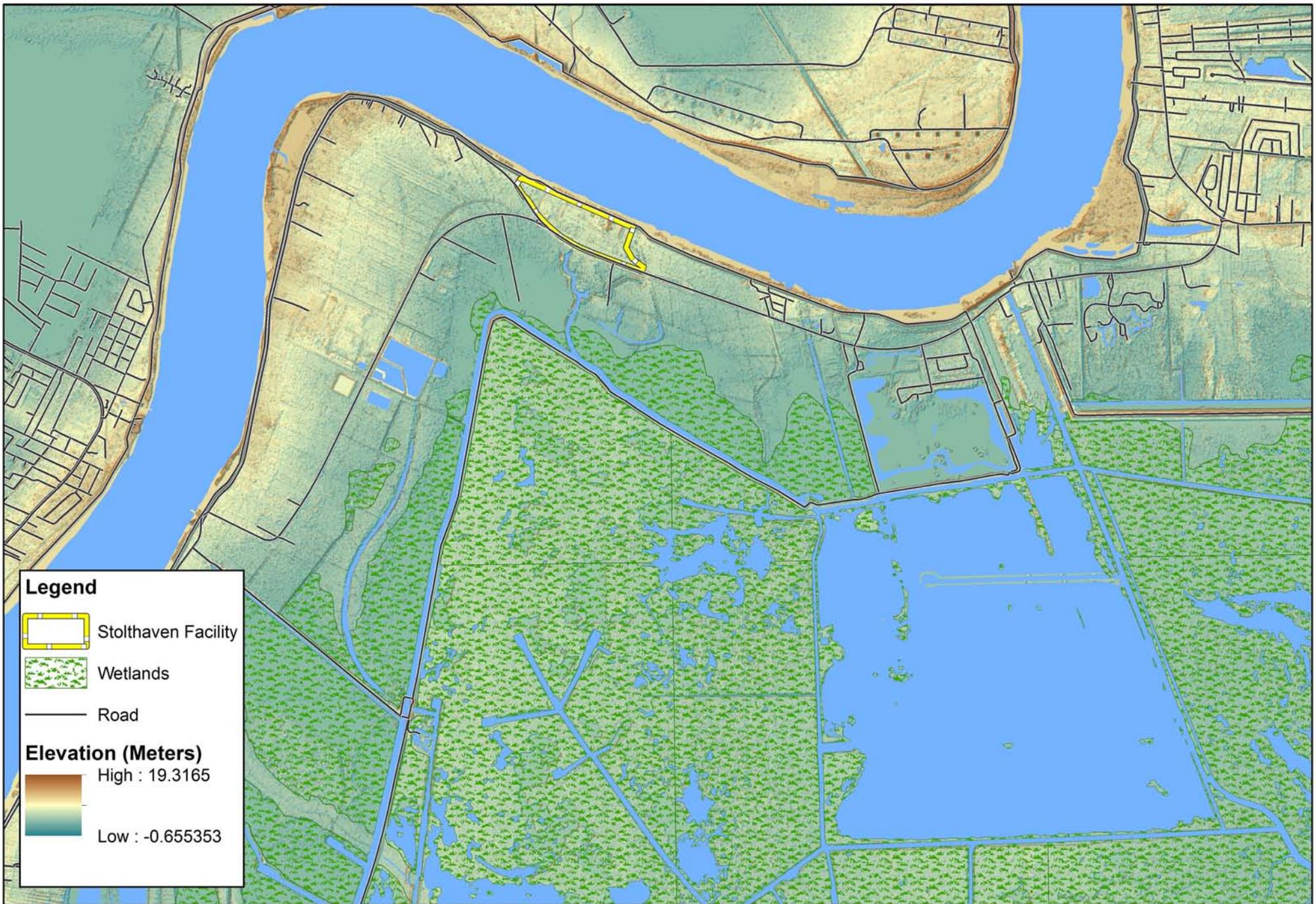
Unit	Analyte	Number of Readings	Number Of Detections	Concentration Range
Unit 14	LEL	5646	0	0 - 0 %
	VOC	5646	0	0 - 0 ppm
Unit 15	LEL	5250	0	0 - 0 %
	VOC	5250	18	0.1 - 0.1 ppm
Unit 16	LEL	5602	0	0 - 0 %
	VOC	5602	153	0.1 - 3 ppm
Unit 17	LEL	5669	0	0 - 0 %
	VOC	5669	0	0 - 0 ppm
Unit 18	LEL	5662	0	0 - 0 %
	VOC	5662	0	0 - 0 ppm
Unit 19	LEL	5676	0	0 - 0 %
	VOC	5676	0	0 - 0 ppm
Unit 20	LEL	5648	0	0 - 0 %
	VOC	5648	0	0 - 0 ppm
Unit 21	LEL	5676	0	0 - 0 %
	VOC	5676	0	0 - 0 ppm
Unit 22	LEL	5561	0	0 - 0 %
	VOC	5561	0	0 - 0 ppm
Unit 23	LEL	5670	0	0 - 0 %
	VOC	5670	0	0 - 0 ppm
Unit 24	LEL	5657	0	0 - 0 %
	VOC	5657	79	0.1 - 0.2 ppm
Unit 25	LEL	5421	0	0 - 0 %
	VOC	5421	1	0.2 - 0.2 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 1<sup>st</sup> 00:00 – 22:59**

<b>Matrix</b>	<b>Number of Samples</b>
Air	4
Product Quality	5
Waste Characterization	9

# Appendix 1: Incident Maps



**Legend**

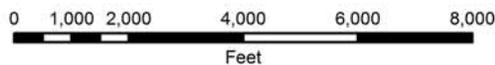
-  Stolthaven Facility
-  Wetlands
-  Road

**Elevation (Meters)**

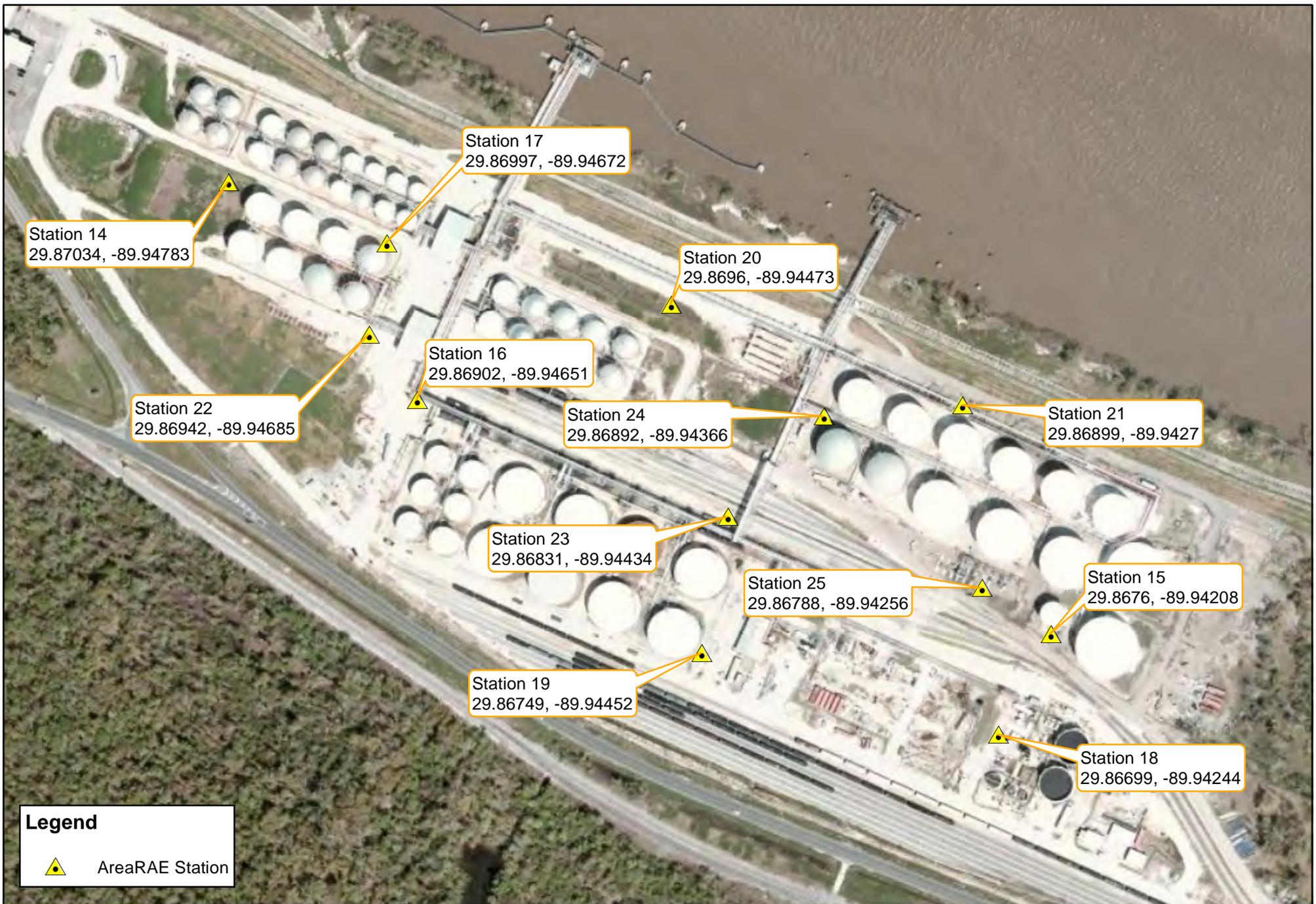
High : 19.3165

Low : -0.655353

**Stolthaven Facility  
Shaded Relief of Elevation**



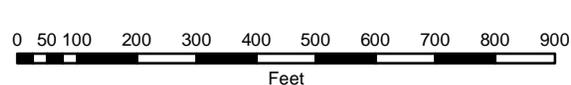
<b>CTEH</b> <small>Project No. 40355</small>	<b>Stolthaven</b>
	<b>Braithwaite, LA</b>
	<b>Plaquemines Parish</b>
<b>Print Date: 9/17/2012</b>	



**Legend**

 AreaRAE Station

**Work Area**  
**AreaRAE Station Locations**  
 September 21, 2012



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



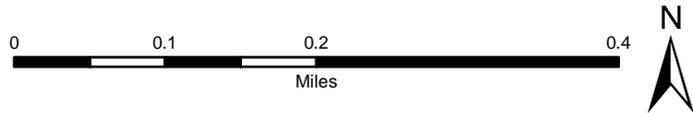
Station 14

Station 15

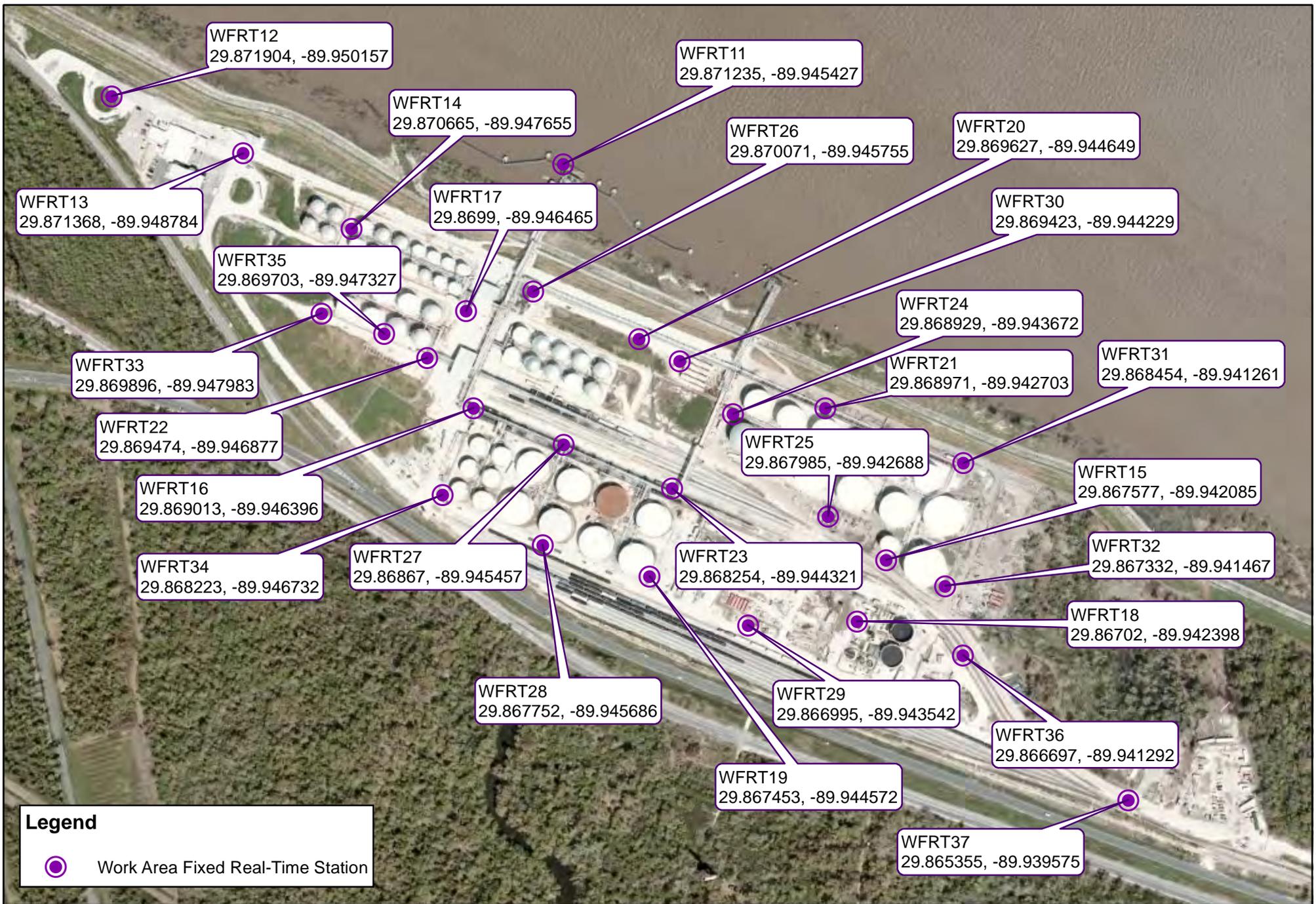
**Legend**

 Air Sample Location

**Ambient Air  
Analytical Sampling Locations**



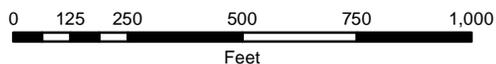
 Project No. <b>40365</b>	<b>Stolthaven</b>
	<b>Braithwaite, LA</b>
	<b>Plaquemines Parish</b>
	<b>Print Date: 9/28/2012</b>



**Legend**

 Work Area Fixed Real-Time Station

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



Project No.  
**40365**

**Stolthaven  
Braithwaite, LA**

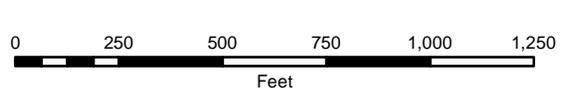
**Plaquemines Parish  
Print Date: 9/28/2012**



**Legend**

- Real-Time Monitoring Location

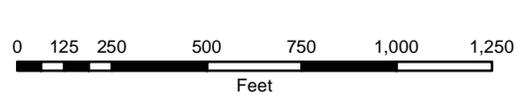
**Work Area**  
**Real-Time Monitoring Locations**  
 10/01/2012



 Project No. <b>40365</b>	<b>Stolthaven</b> <b>Braithwaite, LA</b>
	<b>Plaquemines Parish</b> <b>Print Date: 10/2/2012</b>



**Manually-Logged  
Work Area VOC Concentrations**  
10/01/2012



**CTEH<sup>®</sup>**

Project No.  
**40365**

**Stolthaven  
Braithwaite, LA**

**Plaquemines Parish  
Print Date: 10/2/2012**