

**40355 Braithwaite, LA  
Stolthaven Terminal Facility  
Onsite Summary of Air Monitoring and Sampling Results  
September 19, 2012  
PO# 12-H0408-MR**

This data report discusses real-time air monitoring data collected within the work area between September 18<sup>th</sup> 00:00 and September 18<sup>th</sup> 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 and 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 at the time of action level exceedances were advised to don appropriate respiratory and ocular protection. Two detections of formic acid and a single detection of chlorobenzene were observed within the work area. According to CTEH<sup>®</sup> personnel, the formic acid detections were associated with nearby scrubber activity. CTEH<sup>®</sup> noted an elevated VOC reading while testing the pH of the scrubber solution associated with Tank E12.5-6. Prior to opening the sample port, workers donned full face respiratory protection that was utilized for the duration of the two minute sampling event.

Real-time air monitoring for VOCs, LEL, chlorobenzene and formic acid was conducted using hand-held instruments such as the MultiRAE and colorimetric detector tubes. Table 1 displays a data summary for hand-held instruments. Table 2 highlights analytical sample counts collected in onsite water and air. Appendix 1 shows incident site maps.

**Table 1  
Hand-held Real-time Summary – September 18<sup>th</sup> 00:00 – 23:59**

<b>Entry Activities</b>				
<b>Analyte</b>	<b>Number of Readings</b>	<b>Number of Detections</b>	<b>Average Concentration of Detections</b>	<b>Highest Concentration</b>
Formic Acid	1	0	NA	< 0.52 ppm
LEL	664	0	NA	< 1.0 %
Styrene	1	0	NA	< 0.5 ppm
VOC	777	15	3.2 ppm	17.7 ppm
<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>
Chlorobenzene	1	1	15.0 ppm	15.0 ppm
Formic Acid	22	2	3.9 ppm	5.2 ppm
LEL	64	0	NA	< 1.0 %
Methyl Acrylate	4	0	NA	< 2.0 ppm
VOC	140	6	35.8 ppm	80.0 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.

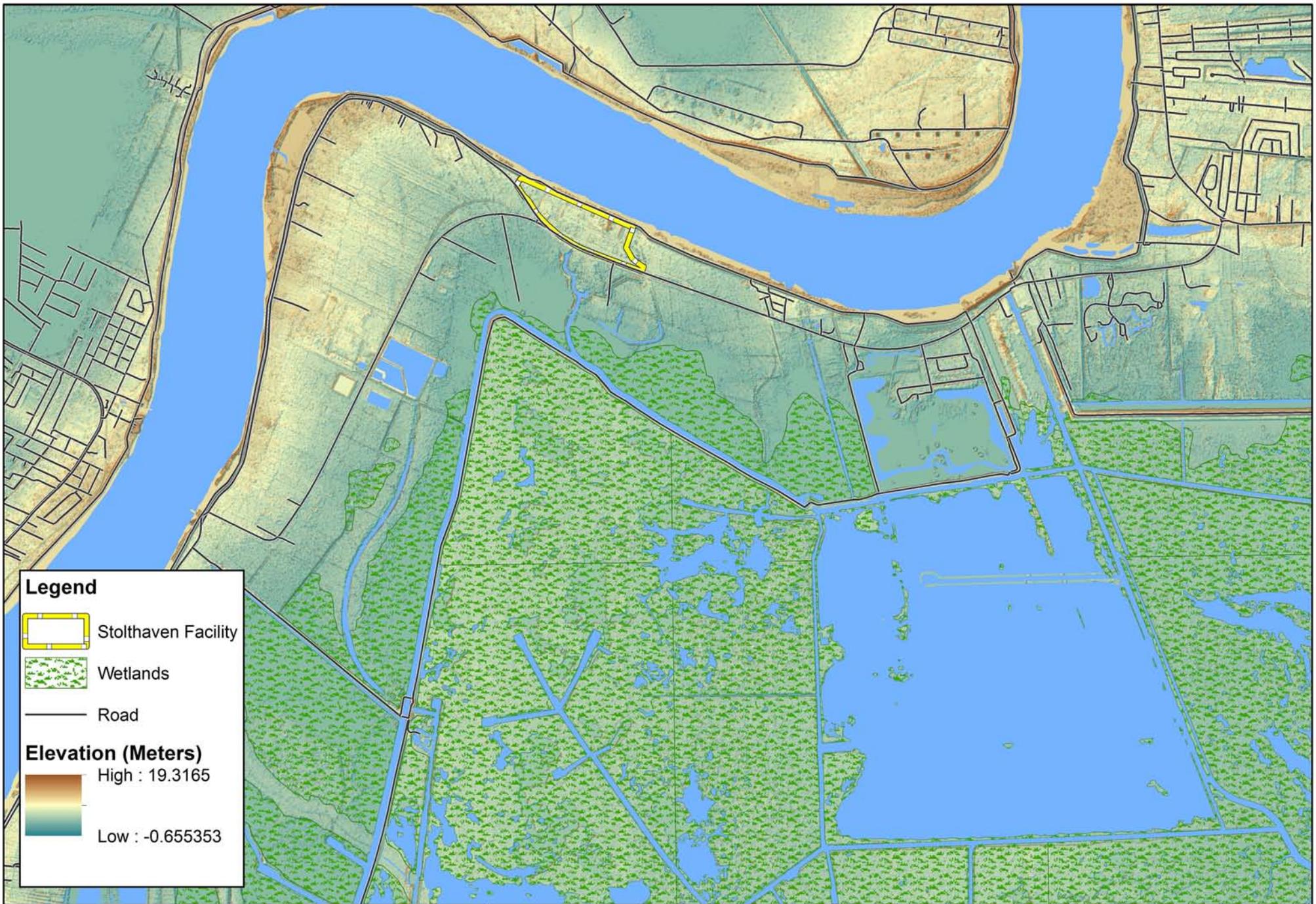
**Table 2**  
**Analytical Sample Counts – September 18<sup>th</sup> 00:00 – 23:59**

<b>Matrix</b>	<b>Number of Samples</b>
Air	4
Water	4

**References:**

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

# Appendix 1: Incident Maps



**Legend**

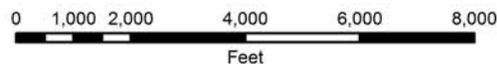
-  Stolthaven Facility
-  Wetlands
-  Road

**Elevation (Meters)**

High : 19.3165

Low : -0.655353

**Stolthaven Facility  
Shaded Relief of Elevation**



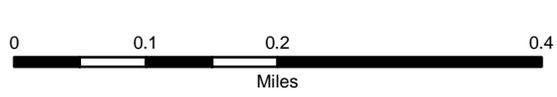
<b>CTEH</b> <small>Project No. 40355</small>	<b>Stolthaven</b>
	<b>Braithwaite, LA</b>
	<b>Plaquemines Parish</b>
<b>Print Date: 9/17/2012</b>	



**Legend**

 Air Sample Location

**Ambient Air  
Analytical Sampling Locations**



	<b>Stolthaven</b>
	<b>Braithwaite, LA</b>
Project No. <b>40355</b>	<b>Plaquemines Parish</b>
	<b>Print Date: 9/18/2012</b>



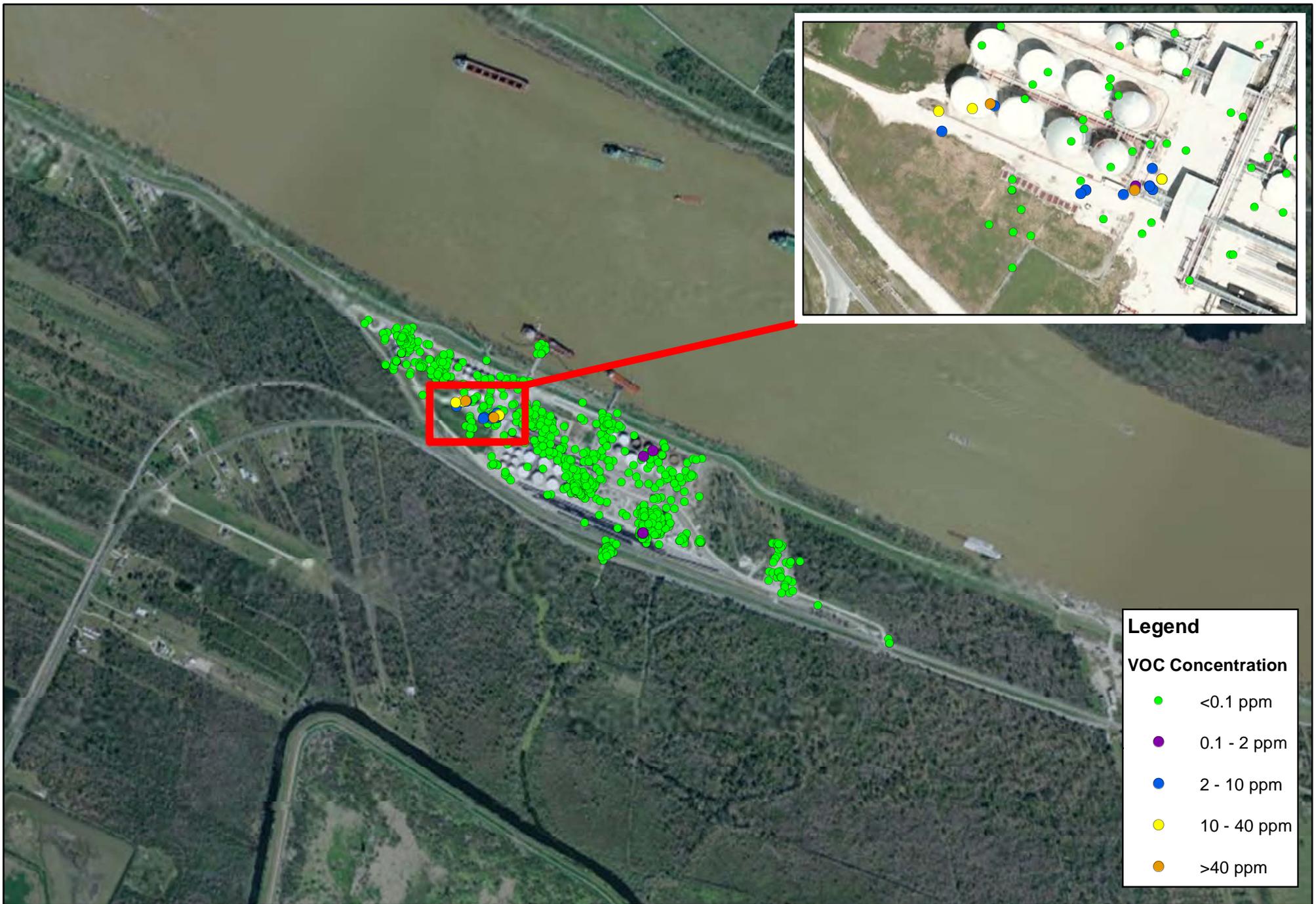
**Legend**

● Real-Time Monitoring Location

**Real-Time Monitoring Locations**  
9/18/2012



	<b>Stolthaven</b>
	<b>Braithwaite, LA</b>
Project No. <b>40355</b>	<b>Plaquemines Parish</b>
	<b>Print Date: 9/19/2012</b>

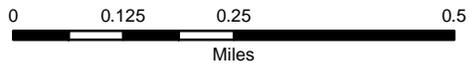


**Legend**

**VOC Concentration**

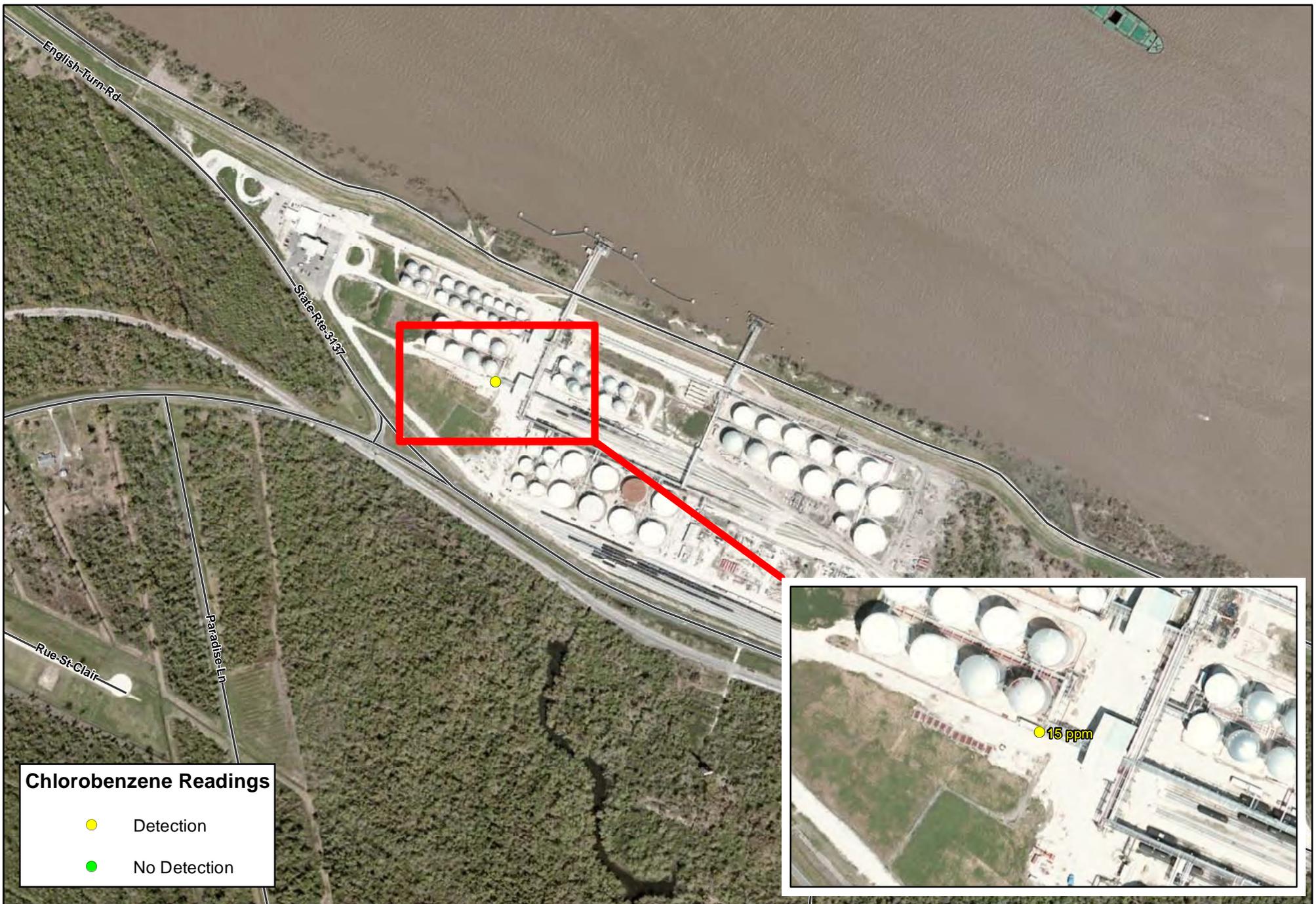
- <0.1 ppm
- 0.1 - 2 ppm
- 2 - 10 ppm
- 10 - 40 ppm
- >40 ppm

**Manually-Logged  
Work Area VOC Concentrations**  
9/18/2012



**CTEH<sup>®</sup>**  
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**Stolthaven**  
**Braithwaite, LA**  
**Plaquemines Parish**  
**Print Date: 9/19/2012**



**Chlorobenzene Readings**

- Detection
- No Detection

**Chlorobenzene  
Reading Locations**  
9/18/2012



**CTEH**  
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**Stolthaven**  
**Braithwaite, LA**  
**Plaquemines Parish**  
**Print Date: 9/19/2012**



**Formic Acid Readings**

- Detection
- No Detection

**Formic Acid  
Reading Locations**  
9/18/2012



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Project No.  
**40355**

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<b>Braithwaite, LA</b>
<b>Plaquemines Parish</b>
<b>Print Date: 9/19/2012</b>