**40365 Braithwaite, LA**
**Stolthaven Terminal Facility**
**Summary of Community Air Monitoring and Sampling Results**
**October 10, 2012**
**PO# 12-H0408-MR**

This data report discusses community real-time air monitoring data collected between October 9th 00:00 and October 9th 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 electrochemical 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 instruments 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 9th 00:00 – 23:59**

| Unit | Analyte | Number of Readings | Number Of Detections | Concentration Range |
|---|---|---|---|---|
| Unit 1 | VOC | 3916 | 0 | 0 - 0 ppm |
| Unit 2 | VOC | 3923 | 3 | 0.1 - 0.4 ppm |
| Unit 3 | VOC | 3934 | 0 | 0 - 0 ppm |
| Unit 4 | VOC | 3399 | 5 | 0.1 - 1 ppm |
| Unit 10 | VOC | 2615 | 0 | 0 - 0 ppm |
| Unit 11 | VOC | 3494 | 0 | 0 - 0 ppm |
| Unit 12 | VOC | 3723 | 9 | 0.1 - 0.3 ppm |
| Unit 13 | VOC | 3797 | 0 | 0 - 0 ppm |

**Table 2**
**Hand-held Real-time Summary – October 9th 00:00 – 23:59**

| Community | | | | |
|---|---|---|---|---|
| **Analyte** | **Number of Readings** | **Number of Detections** | **Average Concentration of Detections** | **Highest Concentration** |
| Formic Acid | 7 | 0 | NA | <0.52 ppm |
| LEL | 279 | 0 | NA | < 1.0 % |
| VOC | 277 | 0 | NA | < 0.1 ppm |

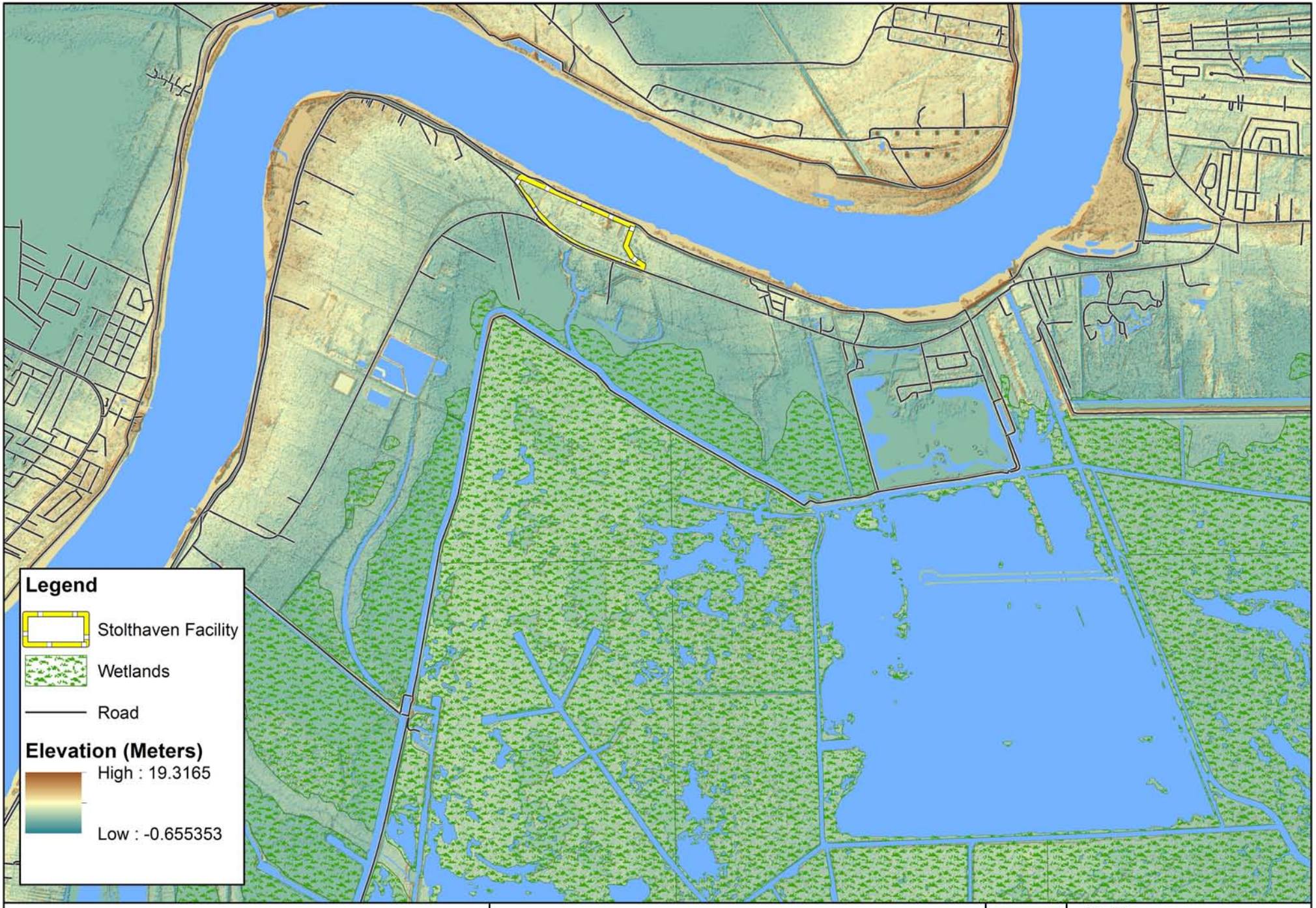
NA = not applicable

* 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 9th 00:00 – 23:59**

| Matrix | Number of Samples |
|---|---|
| Air | 44 |
| Residential Soil | 6 |

# Appendix 1:
# Incident Maps




# Stolthaven Facility
# Shaded Relief of Elevation

0 1,000 2,000 4,000 6,000 8,000
Feet

N

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40365

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

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

0 0.125 0.25 0.5
Miles

N

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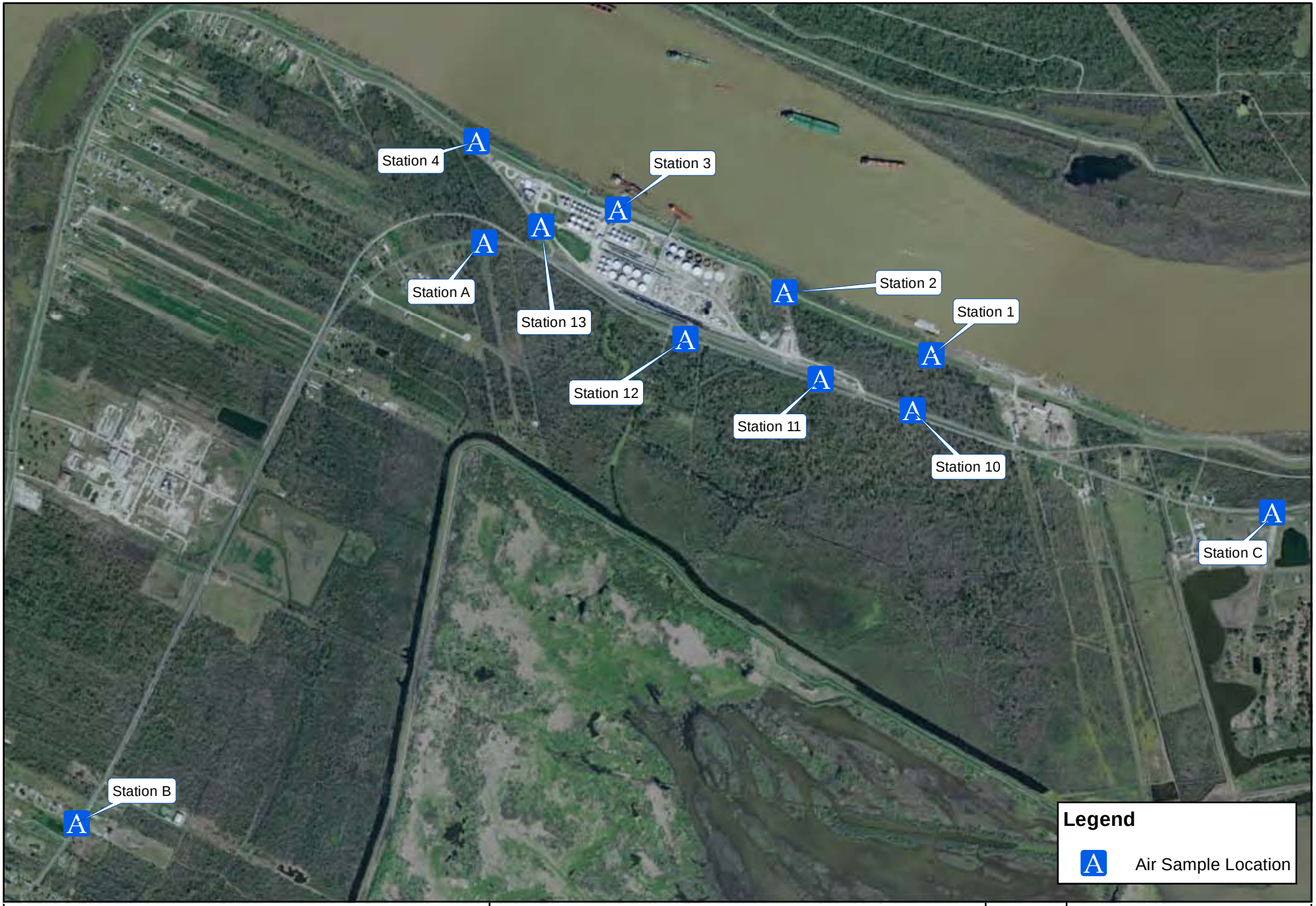
**Stolthaven**
**Braithwaite, LA**
**Plaquemines Parish**
**Print Date: 9/26/2012**




# Ambient Air
# Analytical Sampling Locations

0 0.1 0.2 0.4 0.6 0.8 1
Miles

N

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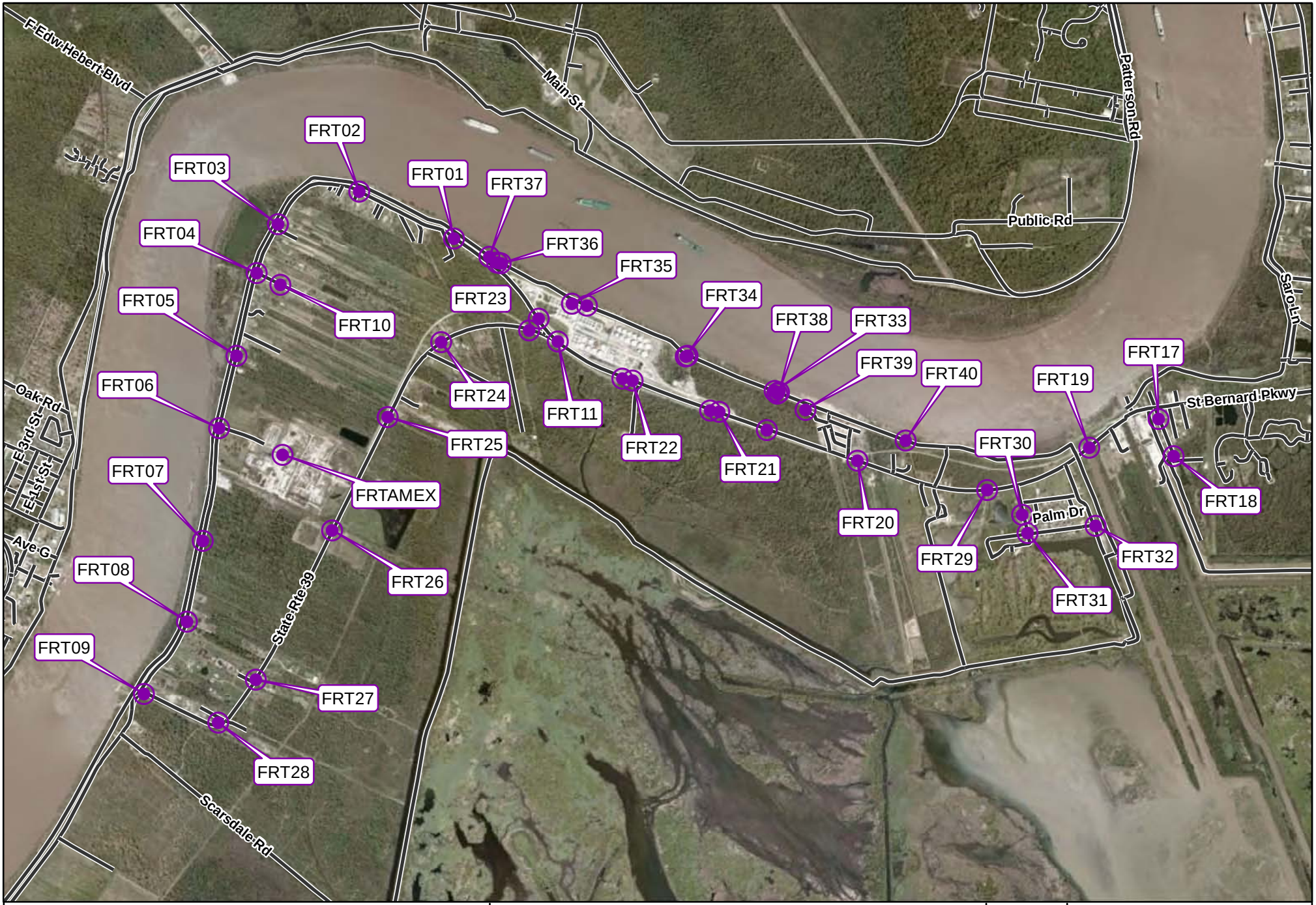


# Community Fixed Real-Time Monitoring Locations

0 0.15 0.3 0.6 0.9 1.2 1.5
Scale in Miles

N

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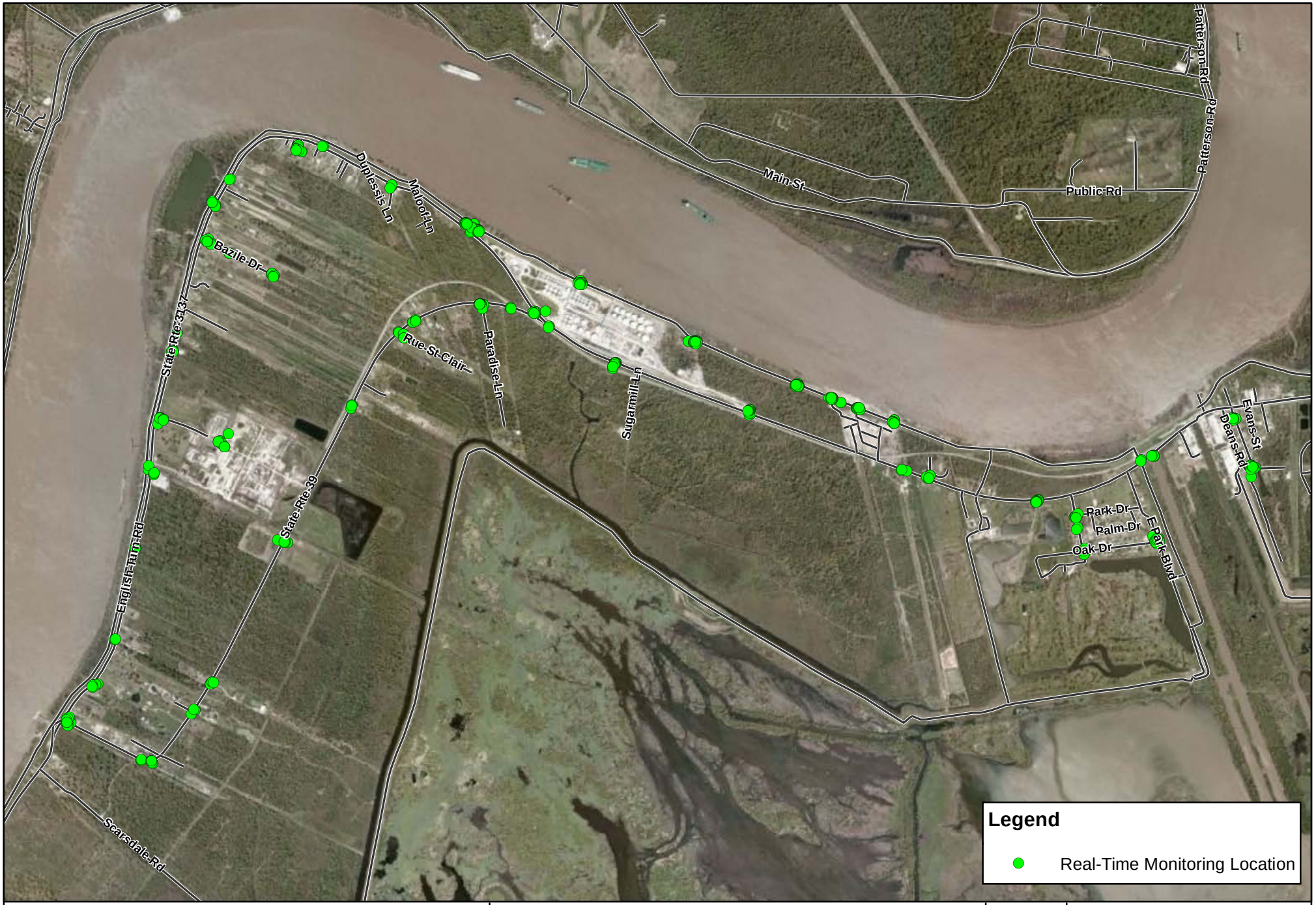


# Community Real-Time Monitoring Locations

*10/09/2012*

0 0.25 0.5 0.75 1 1.25
Miles

N

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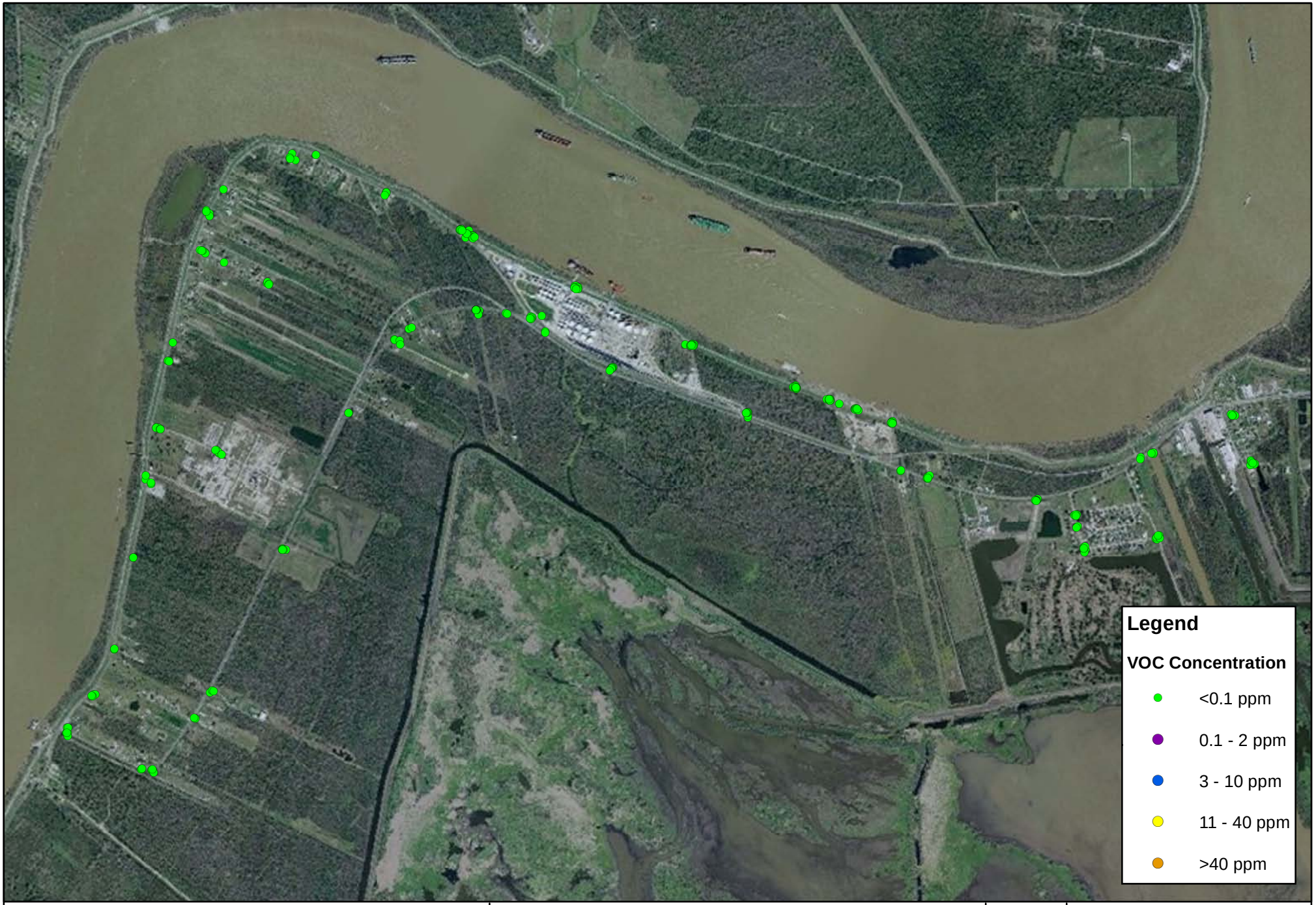
Plaquemines Parish
Print Date: 10/10/2012




# Manually-Logged Community VOC Concentrations

*10/09/2012*

0 0.25 0.5 0.75 1 1.25
Miles

N

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