**Center for Toxicology and Environmental Health, L.L.C.**

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# Summary of CTEH's Air Monitoring Activities for the Community In Response to the MC 252 Oil Spill

## Daily Summary for May 23, 2010

Air monitoring was conducted between New Iberia, LA and Apalachee Bay, FL to address public concern for crude oil vapors. The results of air monitoring for May 22, 2010 18:00 – May 23, 18:00 are shown in Tables 1 and 2 below and the locations where monitoring was conducted are shown in the map below (Figure 1).

**Table 1 Summary of Air Monitoring In Residential and Commercial Areas Along the Gulf Coast**

| Crude Oil Chemicals of Interest | Number of Measurements | Average Concentration (ppm) | Maximum Concentration (ppm) |
|---|---|---|---|
| **Volatile Organic Chemicals including benzene (VOCs)** | 589 | 0 | 0 |
| **Hydrogen sulfide** | 592 | 0 | 0 |
| **Sulfur dioxide** | 486 | 0 | 0 |
| **Benzene*** | 52 | 0 | 0 |
| **Total** | 1719 | | |

*Benzene measured with detector tubes

**Table 2**

| Particulates | Number of Measurements | Average Concentration ($mg/m^3$) | Maximum Concentration ($mg/m^3$) |
|---|---|---|---|
| **Particulate Matter (PM10)*** | 62 | 0.054 | 1.36 |
| **Particulate Matter (PM2.5)*** | 509 | 0.022 | 0.17 |
| **Total** | 571 | | |

*PM10 – is particulate matter less than 10 microns

*PM2.5 – is particulate matter less than 2.5 microns

Air monitoring results show that crude oil vapors were not detected throughout residential and commercial areas between New Iberia, LA and Apalachee Bay. Particulate levels show that concentrations were in range with baseline readings and were below levels of concern. Testing teams trained in odors also noted the presence or absence of crude oil vapors (Figure 2). Oil odors were not detected between New Iberia, LA and Apalachee, FL.

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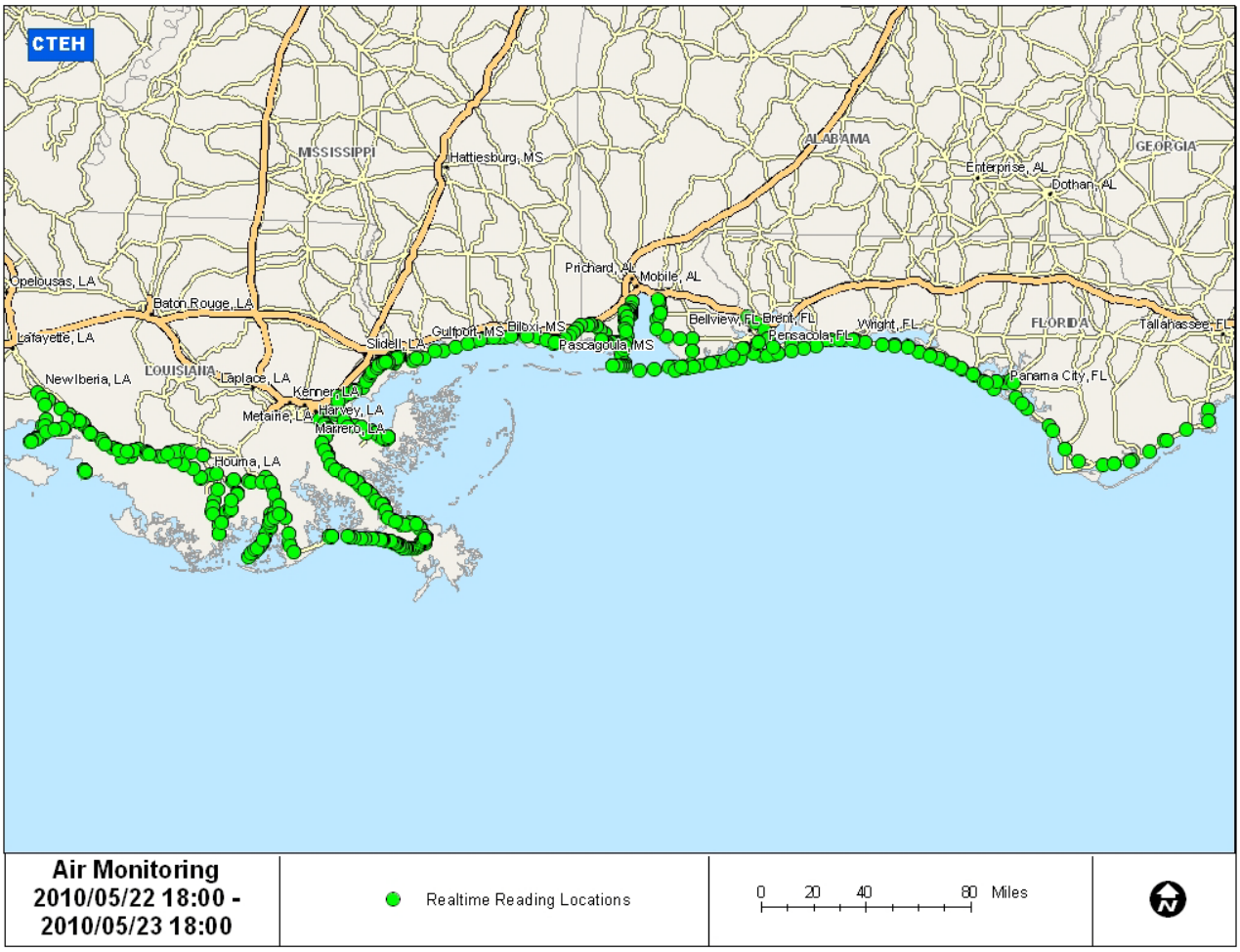
**Figure 1 Map Showing Where Air Monitoring is Being Conducted Throughout the Gulf Coast States**




Note – green dot shows the locations of air monitoring

## Figure 2 – Odor Investigation Results

Note – blue dot means no odor detected, orange dot indicates that crude oil odors were detected.