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 07, 2010

Air monitoring was conducted between Venice, LA and Pensacola, FL to address public concern for crude oil vapors. The results of air monitoring for May 6, 2010 18:00 – May 7, 18:00 are shown in Table 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)	360	0	0
Hydrogen sulfide	336	0	0
Sulfur dioxide*	152	0	0
Benzene*	26	0	0
Total	874		

*Benzene and sulfur dioxide measured with detector tubes

Table 2

Particulates	Number of Measurements	Average Concentration (mg/m^3)	Maximum Concentration (mg/m^3)
Particulate Matter (PM10)*	264	0.038	0.078
Total	264		

*PM10 – is particulate matter less than 10 microns

Air monitoring results show that crude oil vapors were not detected throughout residential and commercial areas between Venice, LA and Panama City, FL. 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 odor was present near the Fort Morgan area of Gulf Shores. It is not clear if the odor was or was not related to the spill because no visible oil or sheen was noted on the water nor was any VOCs detected in the air.

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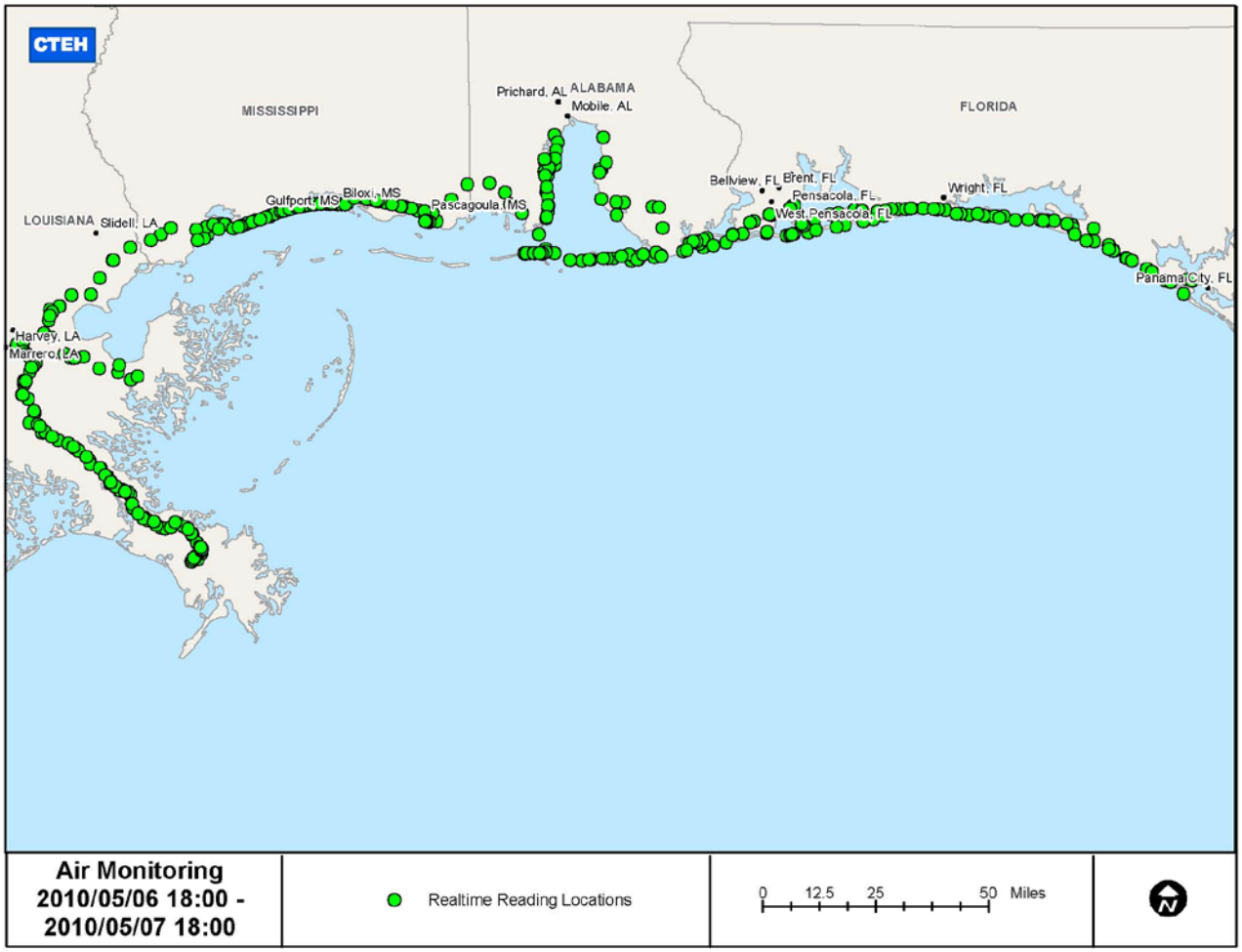
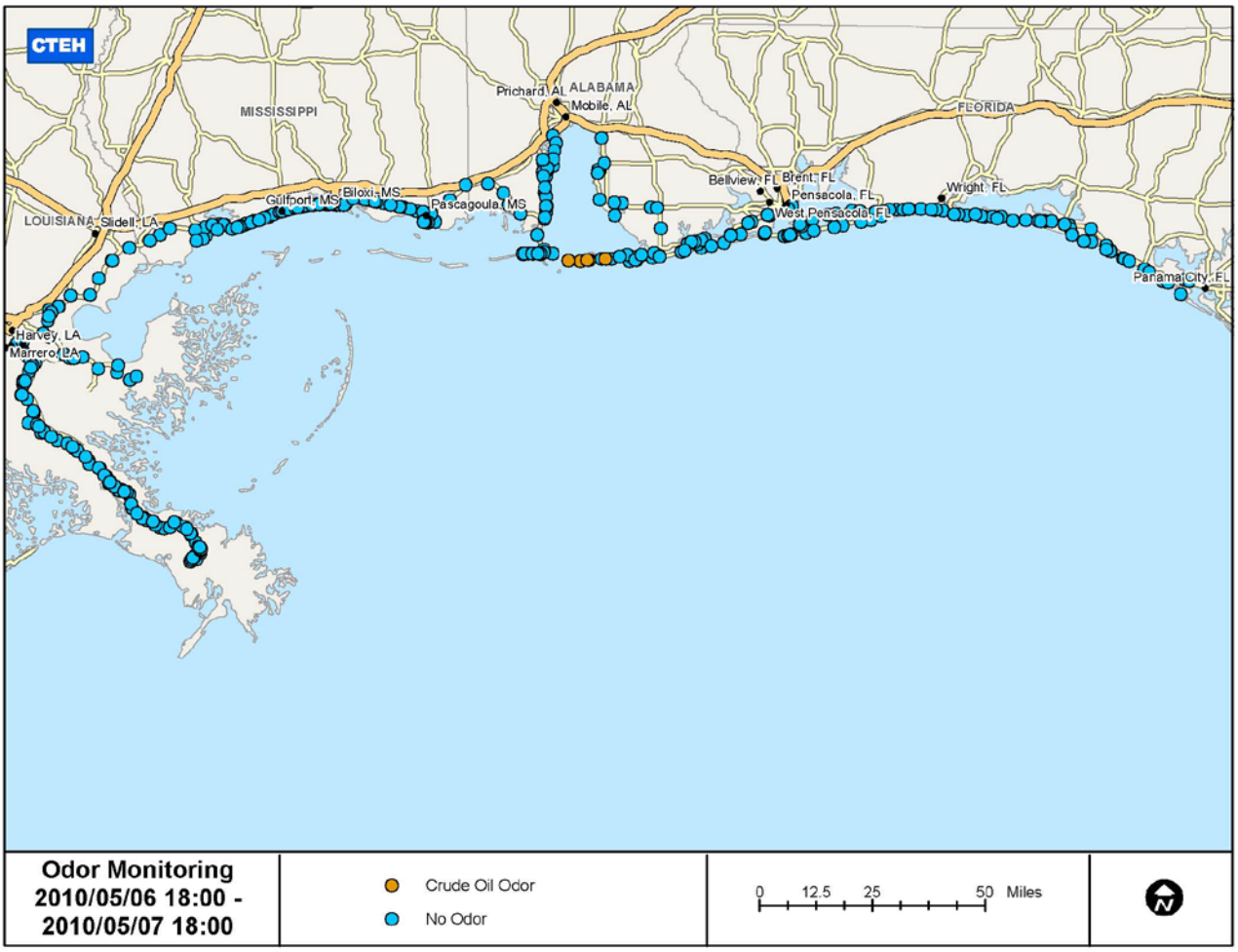
Figure 1 Map Showing Where Air Monitoring is Being Conducted Throughout the Gulf Coast States



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.