

DOCUMENT REVIEW FORM

SITE NAME: Flint Hills Resources – North Terminal
New Hanover Co.

DOCUMENT: Remediation Update Report for September 1, 2003 to February 29, 2004

RECEIVED: 06/25/04

CONSULTANT: Catlin Engineers and Scientists

REVIEWED BY: Sam Watson on 08/11/04

COMMENTS:

Report summarizes the groundwater sampling activities conducted between September 2003 and February 2004.

In general concentrations of xylenes appear to have been reduced in the “source” areas of the p-xylene part of the site, but the plume appears slightly larger laterally. Air-sparge Network A, which parallels the western boundary, does not appear to be as effective as in the past. This may simply be the result of downgradient migration of groundwater impacted with higher concentrations of xylene. However the system at Network A may need to be checked to ensure that the system is operating correctly or tweaked to operate more effectively.

The report also provides results of the additional assessment activities conducted at the loading rack area and on the APEX property to the west of the loading rack area. Results from sampling of the new wells indicate that benzene is present across the entire APEX property at concentrations greater than 2L. The benzene concentration in AMW-2, located approx. 100 ft west of River Road, was 2,200 ug/l. The concentration at AMW-6, located approx. 250 east of the Cape Fear River, was 66 ug/l. Benzene at AMW-6 exceeds the 2L Standard but is below the surface water standard of 71.4 ug/l. Naphthalene was also detected downgradient as far as AMW-4, located approx. 600 ft from the loading rack area. The maximum downgradient migration of all other compounds tested for (toluene, ethylbenzene, xylenes, and MTBE) appears to be approx 500 downgradient of the loading rack area.

Letter sent recommending continued system operation and monitoring, as well as continuation of activities included in the revised CAP. Groundwater remediation efforts in the loading Rack Area, which are currently on hold, will need to address groundwater impacts on the APEX property.