



Groundwater treatment technology put to the test

The Depot's environmental contractors will conduct a state-of-the-art Groundwater Treatability Study this fall on Dunn Field. The purpose of the study is to test the effectiveness of environmental cleanup technologies proposed for the site, as recommended in the Dunn Field Proposed Plan.

The Proposed Plan, which was completed in May 2003, recommends the following treatment methods for groundwater in the shallow aquifer under Dunn Field:

- Zero-Valent Iron (ZVI) injection;
- Permeable Reactive Barrier (PRB); and
- Natural attenuation with institutional controls.

The Groundwater Treatability Study will provide the cleanup team with important information to confirm the size and scope of the "treatment zone." This is the area on Dunn Field where the ZVI injection remedy will be used. The study will also help scientists to confirm the effectiveness of a PRB for treating the chemicals of concern in the groundwater beneath Dunn Field.

"These technologies have proven very successful at other sites across the country," said Steve Offner, Project Manager for CH2M Hill, the Depot's environmental contractor. "Our goal with the treatability study is to confirm that they will be effective under the specific soil and groundwater conditions here in South Memphis.

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Happy Holidays!

The Memphis Depot environmental team would like to wish all of our EnviroNews readers, community members, neighbors, Restoration Advisory Board (RAB) members, staff, and contractors a very happy and safe holiday season!

Due to the holidays and the cleanup schedule, the next RAB meeting will be held in 2004. Watch the Tri-State Defender and Silver Star News for information, or call (901) 544-0613.

Groundwater wells installed this summer

Groundwater monitoring wells were installed at three locations in the Memphis Depot community this summer to collect additional data on the conditions in the shallow aquifer.

This information, along with data collected from the Depot's other wells, will be used to track changes in the quality and direction of groundwater flowing under the Depot property. This brings the total number of monitoring wells to 129.

Sampling data collected from all monitoring wells allow the Depot's environmental team to monitor changes in groundwater conditions as a result of treatment activities in the shallow aquifer.

The three additional monitoring wells were installed at the following locations:



Depot contractor Boart Longyear installs additional off-site monitoring wells in the community.

- At the southeast corner of Person Avenue and Hays Street
- The end of McLean Street, and
- On private property north of Dunn Field.

An update on this project was presented at the October Restoration Advisory Board (RAB) meeting. □