

FINAL
Remedial Design Fact Sheet for
Operable Unit 5
Wastewater Treatment Updates

During the time period October 2003 through March 2004, DOE conducted a series of meetings with public stakeholders, the U.S. and Ohio Environmental Protection Agencies (EPA), and the Fernald Citizen's Advisory Board (FCAB) to identify a more cost effective water treatment facility that could serve as a long-term replacement for the existing 2,600 gallon-per-minute (gpm) advanced wastewater treatment (AWWT) facility. The intent behind the smaller replacement plant is to:

- Address the Site's remaining storm water, remediation wastewater and groundwater treatment needs from early 2005 through site closure in 2006
- Sufficiently support aquifer restoration activities over the post-closure period beyond 2006, and;
- Reduce the amount of impacted materials that may need future off-site disposal.



Current AWWT Facility

The interactions have recently led to support for a plan to carve down the AWWT facility to permit the 1,800 gpm Phase III expansion system to remain as the long-term groundwater treatment facility. The converted 1,800 gpm facility would initially provide 1200 gpm capacity for groundwater and about 600 gpm of storm water capacity (including carbon treatment) to handle the last remaining storm water flows, and, once those flows have ceased, a dedicated long-term groundwater treatment capacity of up to 1,800 gpm. This would allow the dismantlement and disposal (D&D) of about 90 percent of the existing AWWT facility (See photos). The subsequent placement of the affected D&D debris and underlying soils in the on-site disposal facility (OSDF) will be completed in time to meet

the 2006 closure schedule, and result in a protective, more cost effective long term water treatment facility to complete aquifer restoration. During the post-closure period, this approach will also continue to satisfy the site's uranium discharge limits to the Great Miami River as defined in the Operable Unit 5 Record of Decision (ROD).

In March 2004, DOE began working through the technical, scheduling, and operational aspects of the improved plan's implementation with the U.S. and Ohio EPAs. These efforts resulted in DOE submitting a letter to the EPAs in early May 2004, which outlined the path forward for the facility conversion. The U.S. EPA sent a letter of concurrence on the path forward to DOE on May 17, 2004. DOE will be working with the U.S. EPA and Ohio EPA over the coming months to address the list of conditions for follow-on field validation studies and facility operating constraints as identified in the May 2004 DOE letter. Construction to convert the facility will begin in the fall of 2004 with the converted facility startup scheduled for February 2005.



Converted AWWT (CAWWT) Facility

ADDITIONAL INFORMATION CONTACT:

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