

Soil and Water Remediation, Groundwater/Vadose Zone (RL-0030)

**B. H. Ford, Vice President
(509) 373-3809**



***Installation of Direct Pushes at
B-26 Trench***

Overview

This section addresses Project Baseline Summary (PBS) RL-0030, *Soil and Water Remediation, Groundwater/Vadose Zone*.

NOTE: Unless otherwise noted, all information contained herein is as of the end of August 2007.

Notable Accomplishments

- **River Corridor**
 - Completed drilling two wells to evaluate chromium contamination in the 100-BC reactor area.
 - Connected second injection well to Electrocoagulation (EC) Test equipment.
 - Received RL approval for Authorization Limit applications to allow resumption of shipping resin and Granulated Activated Carbon (GAC) offsite for regeneration.
 - Completed 60 percent design review of the KR-4 pump and treat expansion to address chromium remediation.
 - Met with the U.S. Environmental Protection Agency (EPA) to discuss accelerated actions to address the high chromium in the groundwater at the K West pump and treat site.
 - Held all day workshop to update stakeholders on activities to cleanup uranium occurring in the 300 Area groundwater.
- **Central Plateau**
 - Completed drilling of one of three wells to characterize carbon tetrachloride in groundwater beneath and outside the 200 West Area.
 - Completed drilling, sampling and geophysical logging borehole at the 216-A-21 crib.
 - Installed and geophysically logged twenty-eight direct push holes at 216-B-26 crib.
 - Delivered decisional draft of the 200-PW-1/3/6 and ZP-1 Proposed Plans to RL (TPA milestone due 9/30/08).
- **Integration**
 - Reviewed the approach for completing work plans and RI/FSs for the source and groundwater operable units to support comprehensive Records of Decision (RODs) for each reactor.
 - Addressed the status of D Area well installation and discussed how to ensure that these support both source and groundwater investigation purposes.
 - Held Deep Vadose Zone Strategy workshop to refine set of strategy alternatives to be evaluated and provided input to the ongoing effort to develop a treatability test plan for deep vadose zone technologies.

FY 2007 Funds vs. Spend Forecast (\$M)

	Projected FY 2007 Funding	FY 2007 Fiscal Year Spend Forecast	Variance
Soil & Water Remediation, Groundwater/Vadose Zone	\$ 91.9	\$ 76.7	\$ 15.2

Schedule/Cost Performance (\$M)

Soil & Water Remediation, Groundwater/Vadose Zone	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance \$	Schedule Variance %	Cost Variance \$	Cost Variance %	Budget At Completion (FY07/CTD)
Current Period (Month)	\$8.5	\$8.3	\$6.4	-\$0.2	-2.3%	\$1.9	22.7%	\$76.7
Cumulative-to-Date (FY 2004-Present)	\$200.3	\$193.8	\$193.8	-\$6.6	-3.3%	\$0.0	0.0%	\$303.7

Numbers are rounded to the nearest \$0.1M and include the Closure Services allocation.

CTD Schedule Performance (-\$6.6M/-3.3%):

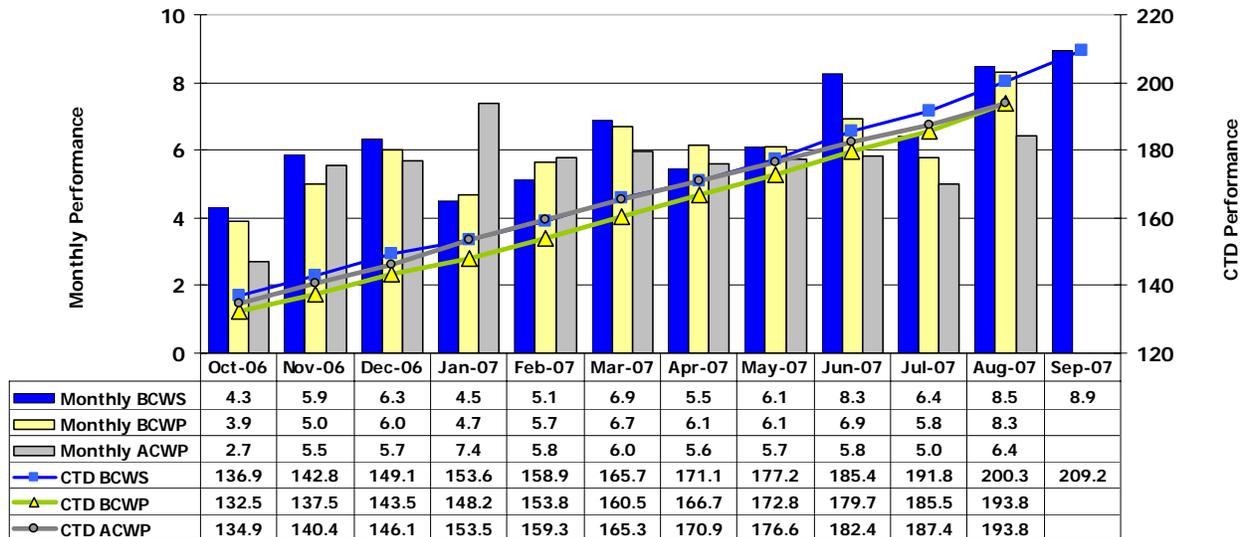
- The CTD schedule variance reflects delayed progress in three areas: 1) well drilling delays caused by unanticipated cultural resource issues and by onsite labor shortages; 2) pump and treat system resin regeneration delays caused by offsite shipping restrictions, and 3) resource constraints associated with sampling and analysis. The cultural resource issues and labor shortages are being worked, but it is expected that at least \$1.5 million worth of drilling will be carried into FY 2008. DOE is actively working the offsite shipping restrictions, and Fluor Hanford, Inc. is testing onsite resin regeneration.

CTD Cost Performance (\$0.0M/0%):

- Insignificant

Schedule/Cost Performance (\$M), continued

Performance Analysis CTD and Monthly (\$M)



Milestone Achievement

Number	Title	Type	Due Date	Actual Date	Forecast Date	Status/Comments
M-013-06B	Submit the 200-BP-5 OU RI/FS Work Plan to EPA	TPA	3/31/07	3/30/07		Complete
M-016-14A	Complete Construction of a 300 foot Permeable Reactive Barrier Utilizing Apatite Sequestration at 100-N	TPA	5/31/07	3/25/07		Complete
M-015-48B	Submit the 200-ZP-1 OU Feasibility Study Report / Proposed Plan to EPA	TPA	9/30/07		9/30/07	On schedule
M-013-10A	Submit the 200-PO-1 OU Remedial Investigation/Feasibility Study to Ecology	TPA	9/30/07		9/30/07	Ahead of schedule FH work done 8/30/07
M-024-57M	Install a Cumulative of 60 Wells	TPA	12/31/07	4/6/07		Complete
M-015-50	Submit a Treatability Work Plan for Deep Vadose Zone Technetium and Uranium to Ecology and EPA	TPA	12/31/07		12/31/07	On schedule