

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

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Borehole at A-2 Crib



Outside of 216-A-2 borehole enclosure



*Cable tool rig inside
borehole enclosure*

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 June 2007.

Notable Accomplishments

- **River Corridor**
 - Completed injecting chemicals that form the mineral apatite into the groundwater at 100-N Area to isolate Strontium-90 and protect the Columbia River.
 - Completed 6 of 12 wells at 100 D Area that will be used to test a new technology (bio-stimulation) to clean up chromium.
 - Received Washington State Department of Ecology (Ecology) concurrence on the Sampling and Analysis document to characterize chromium in the groundwater between 100-D and 100-H Areas.
 - Discovered elevated chromium at two new locations (K East reactor area and D reactor area).
 - Initiated the Systematic Planning Process to define the final cleanup actions for the River Corridor GW operable units.
- **Central Plateau**
 - Completed decommissioning all 90 wells planned to be removed from service in FY 2007.
- **Integration**
 - Presented an overview of the draft Integrated Groundwater and Vadose Zone Management Approach to the Hanford Advisory Board's River and Plateau Committee.
 - Distributed Draft A of the 100/300 Area component of the baseline risk assessment for regulator and stakeholder comments.
 - Held discussions with RL, ORP and regulatory agencies on proposal to create deep vadose zone operable units.

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	\$ 81.9	\$ 10.0

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)	\$8.3	\$6.9	\$5.8	-\$1.3	-16.3%	\$1.1	16.0%	\$76.8
Cumulative-to-Date (FY 2004-Present)	\$185.4	\$179.7	\$182.4	-\$5.7	-3.1%	-\$2.7	-1.5%	\$278.1

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

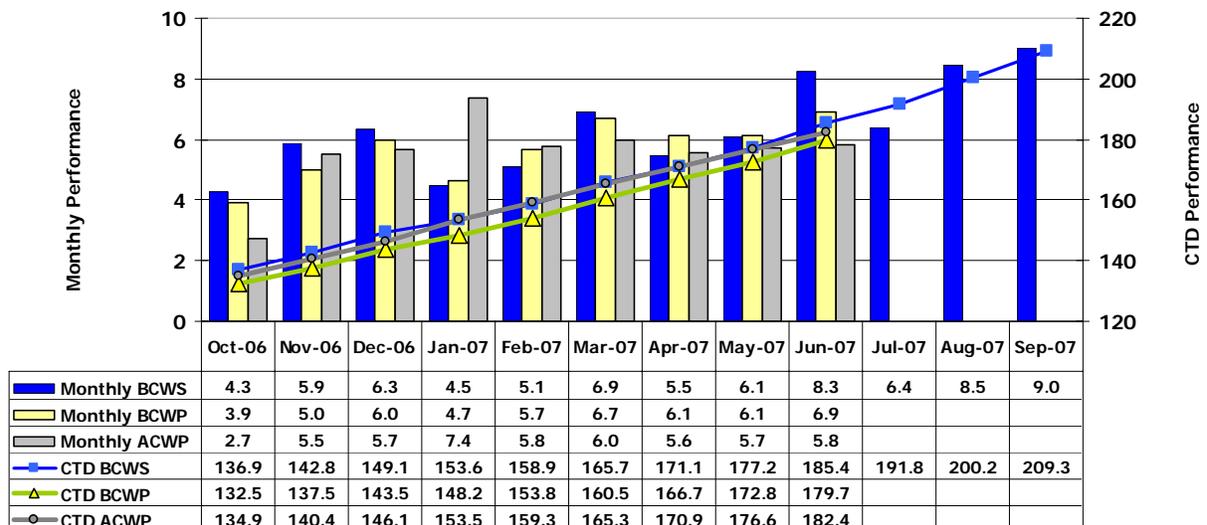
CTD Schedule Performance (-\$5.7M/-3.1%):

- The CTD schedule variance reflects delayed progress in two areas: 1) well drilling delays caused by unanticipated cultural resource issues and by onsite labor shortages; and 2) pump and treat system resin regeneration caused by offsite shipping restrictions. 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 FH is testing onsite resin regeneration.

CTD Cost Performance (-\$2.7M/-1.5%):

- The CTD cost variance is attributable to three major contributors: 1) higher than estimated costs for the K West pump and treat system expansion; 2) prior year issues associated with well drilling and decommissioning; and prior year estimating shortfalls associated with management and integration. These overruns have been partially offset by favorable overhead pass backs and lower than expected costs associated with pump and treat operations.

Performance Analysis CTD and Monthly (\$M)



Schedule/Cost Performance (\$M), continued

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	On schedule
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