

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

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



*BC Controlled  
Area Roving Surveys*

*Gator-mounted detector*



*Hand held surveys*

## 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 January 2007.

## Notable Accomplishments

- **Drilling**
  - Accepted 14 of the proposed 15 CY 2007 Tri-Party Agreement (TPA) wells
    - One CY 2007 TPA monitoring well is being drilled to help understand the depth and extent of the carbon tetrachloride in the 200-ZP-1 operable unit
    - Two CY 2008 TPA monitoring wells are being drilled
    - Issued a contract for the drilling of up to eight investigation boreholes in the 100-D area; drilling will begin in February
  - Awarded a 54-well decommissioning contract (of a total FY 2007 list of 90 wells); field work is planned to begin in February
- **River Corridor**
  - Maintained continuous K West treatment system operations under very cold weather conditions
    - System has treated ~2.6M gallons of groundwater
    - Full system operations began on January 29, 2007
  - Initiated Aquifer tube sampling during low-river conditions
- **Central Plateau**
  - Evaluated new monitoring data in B complex to understand groundwater movement
  - Awarded 54-well decommissioning contract
  - Provided cost, schedule and scope estimates for Technetium 99 (Tc99) extraction at T Farm
  - Completed Stakeholder/HAB workshops for the ZP-1 and PW-1 Feasibility Studies. Feedback has been very positive
- **Integration**
  - Distributed draft of the Hanford Site Annual Groundwater Report to RL and regulatory agencies to review
  - Completed Hanford Geotechnical Sediment Library move
  - Accepted seven TPA monitoring wells (2 ZP-1, 2 BP-5, 3 KR-4)

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

	Projected FY 2007 Funding	FY 2007 Fiscal Year Spend Forecast	Variance
Soil & Water Remediation, Groundwater/Vadose Zone	\$ 79.6	\$ 79.6	\$ 0.0

## FY 2007 Schedule/Cost Performance (\$M)

	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
Soil & Water Remediation, Groundwater/Vadose Zone	\$21.0	\$19.6	\$21.3	-\$1.5	-7.0%	-\$1.7	-8.9%	\$68.0

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

### Schedule Performance (-\$1.5M/-7.0%).

The schedule variance is being driven by three main contributors:

- Groundwater/Vadose Zone Integration (-\$0.5M)
  - Competing priorities on the finalization of strategy and issuing of subcontracts
  - Initiation of the Technical Peer Review was delayed while discussions occurred with RL and the Washington State Department of Ecology (Ecology) regarding the panel/workshop strategy.
  - Environmental Databases is behind schedule primarily due to the effort to finalize subcontracting strategy (identifying scope, etc.) with Lockheed Martin Information Technology, Inc. (LMIT)
- 100-NR-2 Operable Unit (-\$0.7M)
  - Field was not prepared for injections to start in November and December – delayed now until late February; change in field implementation plan.
- 200-ZP-1 Operable Unit (-\$0.4)
  - Less progress than planned for Waste Sampling and Characterization Facility (WSCF) analysis due to late start in drilling two T-Farm wells; behind on feasibility study due to risk modeling delays; proposed plan behind schedule.

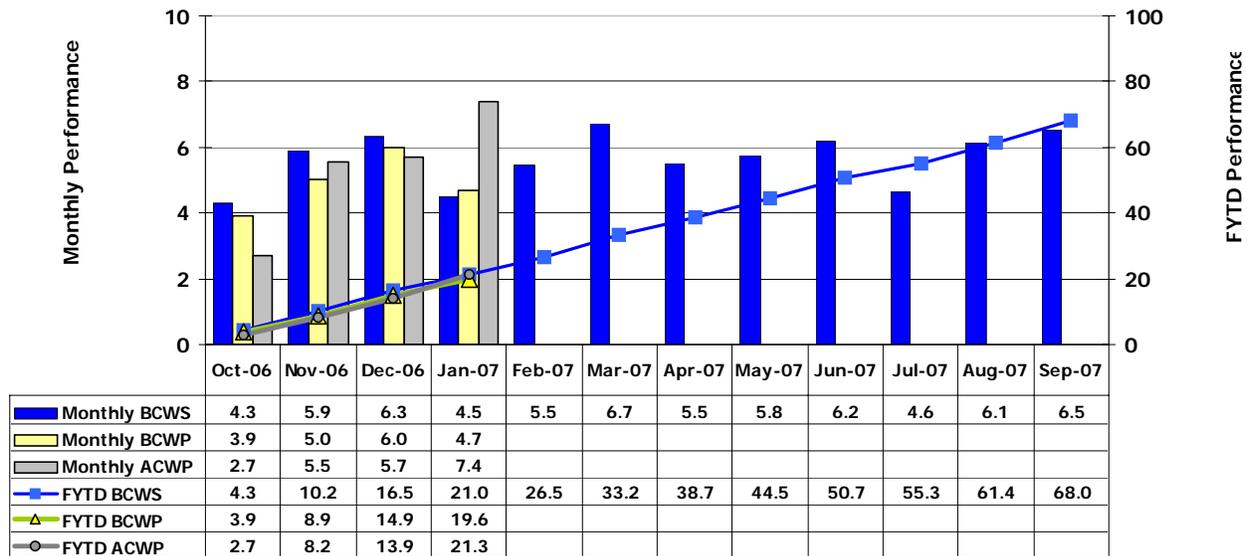
### Cost Performance (-\$1.7M/-8.9%).

The cost variance is being driven by two main contributors:

- Well Management (-\$0.9)
  - Significant cost variances are seen from work scope that has been released under Advanced Authorization but is not in the baseline; scope is being completed and costs are being accrued.
- 100-KR-4 (-\$1.3)
  - This variance includes the K W Reactor Chromium Plume construction estimates for \$405K; the tie-in to relocate injection wells for \$320K; and the K W Reactor Chromium Plume cost overruns for \$450K.

## FY 2007 Schedule/Cost Performance (\$M), continued

### Performance Analysis FYTD and Monthly (\$M)



## Milestone Achievement

Number	Milestone Title	Type	Due Date	Actual Date	Forecast Date
<b>RL-30</b>					
M-013-06B	Submit the 200-BP-5 OU RI/FS Work Plan to EPA	TPA	3/31/07		3/31/07
M-016-14A	Complete Construction of a 300 foot Permeable Reactive Barrier Utilizing Apatite Sequestration at 100-N	TPA	5/31/07		5/31/07
M-015-48B	Submit the 200-ZP-1 OU Feasibility Study Report / Proposed Plan to EPA	TPA	9/30/07		9/30/07
M-013-10A	Submit the 200-PO-1 OU Remedial Investigation/Feasibility Study to Ecology	TPA	9/30/07		9/30/07
M-024-57M	Install a Cumulative of 60 Wells	TPA	12/15/07		6/30/07
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