

Central Plateau Remediation Project

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**Groundwater RCRA
Well Drilling**

233S Hydrolazing



OVERVIEW

The Central Plateau Remediation Project (CP) is responsible for work scope included in Project Baseline Summaries (PBSs) RL-CP01, *200 Area Remediation*; RL-RC06, *300 Area Facility Transition*; RL-RS01, *South Hanford Industrial Area*; RL-SC01, *Near Term Stewardship*; RL-SS03, *Groundwater Management and Monitoring*; and RL-SS04, *Groundwater Vadose Zone Integration*.

- PBS RL-CP01, *200 Area Remediation*, consists of Project Management and Support, CP Facility Surveillance and Maintenance (S&M), CP Facility Transition, CP Facility Decontamination and Decommissioning (D&D), the Equipment Disposition Project and CP Waste Site Remediation.
- PBS RL-RC06, *300 Area Facility Transition*, consists of 324 and 327 Facility Safe Shutdown, Miscellaneous Radiological Facilities Deactivation and Project Management and Support. The FH Contract includes these activities through April 30, 2003.
- PBS RL-RS01, *South Hanford Industrial Area*, consists of Facility Closure, Waste Site Remediation, Facility and Waste Site Surveillance and Maintenance, and Project Management and Support.
- PBS RL-SC01, *Near Term Stewardship*, consists of Stewardship Records/Information Management and Stewardship Strategic Planning and Requirements.
- PBS RL-SS03, *Groundwater Management and Monitoring*, consists of Long Term Monitoring, Groundwater Management and Monitoring, 100/200 Area Groundwater Remediation, Eliminate Artificial Recharge Conditions and Project Management and Support.
- PBS RL-SS04, *Groundwater Vadose Zone Integration*, consists of Management and Integration, Science and Technology, System Assessment Capability and Characterization.

NOTE: Unless otherwise noted, all information contained herein is as of the end of March 2003.

NOTABLE ACCOMPLISHMENTS

200 Area Remediation: Delivered the Gable Mountain Pond/B Pond (200-CW-1) Operable Unit Feasibility Study and Proposed Plan (Draft A) to the regulators for review on March 31, 2003 [meeting Tri-Party Agreement (TPA) Milestone M-15-38A due March 31, 2003]. Initiated waste site characterization field investigations for the Uranium-Rich Process Waste Operable Units (200-PW-2/PW-4).

200 Area Central Plateau Surveillance and Maintenance Crosswalk gap analyses of applicable safety basis identified gaps in five safety basis. New safety basis documents were prepared to fill the identified gaps with work initiated in December 2002. The safety basis were prepared utilizing integration techniques of DOE standard, DOE-STD-1120-98, for compliance with the Code of Federal Regulations, Title 10 Part 830, Subpart B. Documented safety analyses (DSAs) for B-Plant, the Plutonium-Uranium Extraction (PUREX), the 209-E facility, the 224-T facility and the 231-Z facility were transmitted to the U.S. Department of Energy, Richland Operations office prior to the mandated compliance date of April 10, 2003. Approval of the first submittal, 209-E, has been received and implementation is expected by June 2003.

300 Area Facility Transition: An Emergency Baseline Change Request (BCR) FH-2003-011 to cease all project-related work scope in the 324 Facility with the exception of the design and fabrication of the Liquid Waste Handling System (LWHS) was approved on March 21, 2003. This allows FH to reassign 324 Facility personnel to higher priority workscope. Completed designing the tool to be used to clean out the high level waste in the Radiochemical Engineering Cell B-Cell trench and sump in early March. Performed design review of the 324 LWHS skid and provided the vendor with required changes on March 26, 2003.

Groundwater Management and Monitoring: Completed injections for the In-Situ Reduction and Oxidation (REDOX) Manipulation (ISRM) barrier (meeting TPA Milestone M-16-27C) on April 10, 2003.

Completed nine of 20 [fiscal year (FY) 03] wells, with one additional well currently in process. Pacific Northwest National Laboratory completed the *Results of Detailed Hydrologic Characterization Tests – Fiscal Year 2002* report for RL's transmittal to the regulators.

Groundwater Vadose Zone Integration: The RL review of the draft-annotated outline of the *Optimization Strategy for the Central Plateau Closure* was completed on March 5, 2003 and writing of the document has commenced. The first Groundwater Protection Program website under FH management was successfully launched on April 10, 2003. The first draft of the Vadose Zone Monitoring study was produced March 15, 2003 and is undergoing revisions in accordance with suggestions from RL. Pacific Northwest National Laboratory initiated the Strontium 90 Update Study on January 6, 2003.

FY 2003 SCHEDULE/COST PERFORMANCE (\$000)

Schedule Performance (-\$2.8M): Work scope at the 324 facility that is not related to minimum safe facility status such as clean out of the Shielded Maintenance Facility (SMF), B/D Cell equipment size reduction and waste disposal have been placed on hold to allow for the reallocation of resources to support other higher priority work within FH. These activities will be deleted from the baseline upon approval of BCR FH-2003-014, *FY 2003 Funding Reductions*. Additionally, there was a delay in finalizing the design of the 324 LWHS and commencement of system fabrication by a subcontractor.

Activities related to facility decontamination at 233S were more extensive than planned and have further impacted the completion of facility characterization and data evaluation. These delays have hindered the ability to move forward with open-air demolition as planned in the baseline.

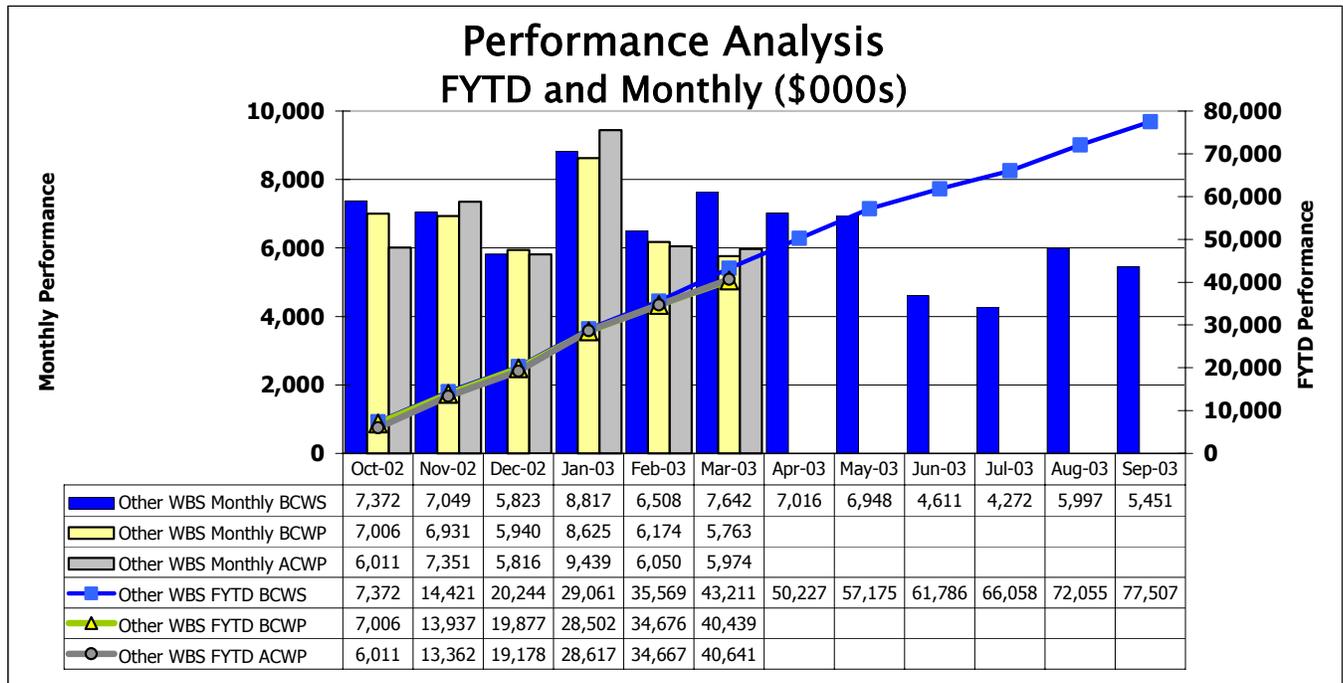
Well drilling efforts for 200-PW-2 were placed on hold pending resolution of the FY 2003 funding reductions. All subcontracting restrictions associated with this work scope have been lifted and the activities are in progress.

Resin procurements that support groundwater pump and treat operations were placed on hold while the project evaluates the feasibility of resin regeneration versus purchase of new resin. This change has the potential to yield cost efficiencies.

Cost Performance (-\$0.2M): The cost variance is within established thresholds at the project level. The favorable cost variance for PBS RL-RC06, *300 Area Facility Transition* is primarily due to actual labor costs being lower than planned due to reallocation of resources to support other priority projects. The unfavorable cost variance is for PBS RL-CP01, *200 Area Remediation* is primarily due to the inability to perform 233S demolition per the aggressive open-air method described in the baseline.

	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
RL-RC06 300 Area Facility Transition	14,903	14,536	12,787	-367	-3%	1,749	12%	18,652
RL-RS01 South Hanford Industrial Area Clean Up	93	104	64	11	10%	40	38%	201
RL-CP01 200 Area Remediation	16,004	14,396	16,708	-1,608	-11%	-2,312	-16%	30,505
RL-SS03 Groundwater Management & Monitoring	9,379	8,730	8,514	-650	-7%	216	2%	22,283
RL-SS04 Groundwater/Vadose Zone Protection	1,634	1,532	1,503	-102	-7%	29	2%	3,347
RL-SC01 Near Term Stewardship	1,199	1,143	1,066	-57	-5%	76	7%	2,519
Total Central Remediation Project	43,211	40,439	40,641	-2,772	-7%	-202	0%	77,507

NOTE: FH contract only includes PBS RL-RC06, *300 Area Facility Transition* work scope through April 30, 2003



MILESTONE ACHIEVEMENT

PBS	MSN	Title	Type	Due Date	Actual Date	Forecast Date	Status/Comments
RL-CP01	TRP-03-203 M-15-41B	Submit 200-TW-1 and 200-TW-2 OU Remedial Investigation Report to EPA and Ecology	TPA	10/30/02	10/23/02		Completed ahead of schedule
RL-CP01	TRP-03-109 M-24-56	Install Two Additional Wells at SST Waste Management Area TX-TY.	TPA	12/31/02	12/13/02		Completed ahead of schedule
RL-CP01	TRP-03-206 M-13-00M	Submit 1 200 NPL RI/FS (RFI/CMS) Work Plan	TPA	12/31/02	12/30/02		Completed ahead of schedule
RL-CP01	TRP-03-209 M-15-38A	Submit 200-CW-1 Gable Mountain Pond/B Pond and Ditch Cooling Water Group Feasibility Study	TPA	3/31/03	3/31/03		Completed
RL-CP01	TRP-03-212 M-15-40B	Submit 200-CW-5 U Pond/Z Ditches Cooling Water Group Remedial Investigation Report	TPA	5/31/03			On Schedule
RL-CP01	TRP-03-215 M-15-47	Submit a Proposed Plan to EPA and/or Ecology to conduct Remedial Action(s) for Source Control at High-Risk Waste Site(s)	TPA	6/30/03			On Schedule
RL-CP01	TRP-03-218 M-15-39A	Complete Chemical Sewer Group Field Work Through Sample Collection and Analysis	TPA	9/30/03		7/18/03	Forecast ahead of schedule
RL-CP01	TRP-03-224 M-13-00N	Submit 1 200 NPL RI/FS (RFI/CMS) Work Plan	TPA	12/31/03			On Schedule
RL-CP01	TRP-03-239 M-020-00A	Submit Part B Permit Applications or Closure/Post Closure Plans for all RCRA TSD Units Except 216-A-10, 216-A-36B, 216-A-37-1, 207-A South Retention Basin, 216-S-10 Pond, 216-S-10 Ditch, 241-CX-70, 241-CX-71, and 241-CX-72.	TPA	2/28/04			On Schedule
RL-CP01	TRP-03-227 M-15-41C	Submit 200-TW-1 and 200-TW-2 OU Feasibility Study and Proposed Plan to EPA and Ecology	TPA	3/31/04			On Schedule
RL-CP01	TRP-03-230 M-15-39B	Submit 200-CS-1 Chemical Sewer Group Remedial Investigation Report	TPA	5/31/04			On Schedule

MILESTONE ACHIEVEMENT (CONT)

PBS	MSN	Title	Type	Due Date	Actual Date	Forecast Date	Status/Comments
RL-CP01	TRP-38-802	Decontaminate and Decommission the 233-S and 233-SA Facilities	RL	6/30/04			On Schedule
RL-CP01	TRP-03-233 M-15-43B	Submit 200-PW-2 OU Remedial Investigation Report Including Past Practice Waste Sites in 200-PW-4 General Process Waste Group	TPA	6/30/04			On Schedule
RL-RC06	TRP-04-901 M-92-15	Complete Removal and Transfer, and Initiate Storage of Phase II 300 Area SCW and Materials	EA	9/30/04	9/19/01		Completed ahead of schedule
RL-RS01	TRP-03-236 M-016-66	Initiate Intermediate Design and Authorization Safety Analysis for Remedial Actions at the 618-10 and 618-11 Burial Grounds	TPA	9/30/04			On Schedule
RL-SS03	TRP-03-106 M-24-00N	Install RCRA Groundwater Monitoring Wells at Rate of up to 50 in CY 2002, if required	TPA	12/31/02	12/9/02		Completed ahead of schedule
RL-SS03	TRP-03-112 M-016-28A	Connection Well 199-K-126 to the 100-KR-4 Pump and Treat Extraction System	TPA	1/15/03	1/13/03		Completed ahead of schedule
RL-SS03	TRP-03-103 M-16-27C	Complete 100-HR-3 Phase III, ISRM Barrier Emplacement	TPA	6/30/03			On Schedule
RL-SS03	TRP-03-124 M-24-00O	Install RCRA Groundwater Monitoring Wells at Rate of up to 50 in CY 2003, if required	TPA	12/31/03			On Schedule
RL-SS04	TRP-03-403	Optimization Plan for the Closure of the Central Plateau	RL	9/30/03			On Schedule

FY 2003 FH FUNDS VS FORECAST (\$000)

	Expected Funds	Spend Forecast	Variance
Central Plateau Remediation Project			
RL-RC06 300 Area Facility Transition	\$ 17,211	\$ 15,275	\$ 1,936
Project Completion - Operating	\$ 17,211	\$ 15,275	\$ 1,936
RL-CP01 200 Area Remediation	\$ 30,322	\$ 33,016	\$ (2,694)
RL-RS01 South Hanford Industrial Area	\$ 199	\$ 197	\$ 2
RL-SS03 Groundwater Management & Monitoring	\$ 22,105	\$ 22,326	\$ (221)
RL-SS04 Groundwater Vadoze Zone Integration	\$ 3,181	\$ 3,098	\$ 83
RL-SC01 Near Term Stewardship	\$ 2,513	\$ 2,502	\$ 11
Post 2006 - Operating	\$ 58,320	\$ 61,139	\$ (2,819)
Total	\$ 75,531	\$ 76,414	\$ (883)

ISSUES

233-S Demolition project has recovered from a Stop Work instituted on March 20, 2003 and is now focused on completion of three objectives that support downgrading the facility from a Hazard Category 2 to a Radiological Facility. The three objectives include shipping standard waste boxes to the Central Waste Complex, removing high-efficiency particulate air filters from 233-SA East and absorbing sludge from wastewater tanks and packaging for shipment.