

Environmental Management Performance Report

March 2002



E0204050.1



Department of Energy
Richland Operations Office



Bechtel Hanford, Inc.
Environmental Restoration Contractor

Data as of month-end March

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INTRODUCTION

The monthly Environmental Restoration (ER) Environmental Management Performance Report (EMPR) consists of four sections: Section A - Executive Summary, Section B – River Corridor Restoration, Section C - Central Plateau Transition, and Section D – Site Integration and Infrastructure. All data is current as of March 31, 2002.

Section A – Executive Summary. The Executive Summary begins with a description of notable accomplishments that are considered to have made the greatest contribution toward safe, timely, and cost-effective Hanford Site cleanup. Safety statistics are also included. Major commitments are summarized that encompass *Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement)* milestones and FY02 Environmental Management (EM) corporate performance measures and objectives. Fiscal year-to-date ER Project cost and schedule variance analysis is summarized. Issues that require management and/or regulator attention are addressed along with resolution status. The Key Integration Activities section highlights site activities that cross contractor boundaries, supporting overall Hanford Site goals. The Executive Summary ends with a listing of major upcoming planned key events (90-day look ahead).

Section B – River Corridor Restoration. This section contains more detailed ERC monthly activity information and performance status for the three PBSs within the River Corridor Restoration outcome. These three PBSs consist of RC01 - 100 Area River Corridor Cleanup, RC02 - 300 Area Cleanup, and RC05 - River Corridor Waste Management.

Section C – Central Plateau Transition. This section contains more detailed ERC monthly activity information and performance status for the one PBS within the Central Plateau Transition outcome. This PBS consists of CP01 – 200 Area Remediation.

Section D – Site Integration & Infrastructure. This section contains more detailed ERC monthly activity information and performance status for the two PBSs within the Site Integration and Infrastructure outcome. These two PBSs consist of SS03 – Groundwater Management and Monitoring, and SS04 – Groundwater/Vadose Zone (GW/VZ) Integration.

PBS SC01 – Near Term Stewardship is structured within the Site Stewardship outcome. Due to the minimal FY02 workscope identified for this PBS, SC01 performance data will be included in the Executive Summary cost/schedule overview.

Performance Incentive and Safety information in this report is identified with a green, yellow or red text box used as an indicator of the overall status. Green indicates work or issue resolution is satisfactory and generally meets or exceeds requirements, yellow indicates that significant improvement is required, and red indicates unsatisfactory conditions that require immediate corrective actions.

Section A - Executive Summary



River Corridor Restoration



Central Plateau Transition



Site Integration & Infrastructure

Data as of month-end March

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SECTION A – EXECUTIVE SUMMARY

Data as of month-end March

NOTABLE ACCOMPLISHMENTS:

General:

On March 23, nearly 100 community volunteers removed more than 25 tons of debris from Bateman Island. Much of Bateman Island was burned last summer in a suspected arson fire. This cleanup effort was one of several other community events sponsored and supported by Bechtel Hanford, Inc. (BHI) employees.

BHI received a certificate of achievement signed by the U.S. Department of Energy's (DOE) Secretary for successfully completing the transition from paper to electronic technical information reporting three years ahead of the DOE goal.

River Corridor Restoration:

Plume excavation activities were completed on several pipelines in the 100 B/C Area. Clean overburden removal, excavation of contaminated soils, and loadout activities progressed on four other pipelines as well. In the 100 F Area, excavation activities continued at the 1607-F-2 Septic System and 126-F-1 Ash Pit. Variance sampling was completed at two waste sites. In the 100 N Area, radiological surveys were completed in early March. Results indicate that no radiation "hot spots" are present in the 116-N-3 Crib. A bonded fiber matrix is being applied weekly over the newly excavated areas for long-term minimization of wind erosion and contamination spread.

Mobilization activities continued in support of the 618-4 and 618-5 Burial Ground remediation in the 300 Area. Construction of the frisking tent was completed in March.

During March, the Environmental Restoration Disposal Facility (ERDF) received 45,788 metric tons (50,473 tons) of waste, for a total of 272,262 metric tons (300,118 tons) received to-date in FY02. A total of 3,132,889 metric tons (3,453,419 tons) have been disposed in ERDF since operations began in July 1996. ERDF Disposal personnel have worked 71 months without a lost-time accident, and the ERDF Transportation team has driven 9,596,505 kilometers (5,962,992 miles) without an at-fault vehicle accident.

Through March, DR Reactor safe storage enclosure (SSE) demolition activities were approximately 70 percent complete. Progress also continued on the D, H, and F Reactor interim safe storage (ISS) activities.

The FY02 In Situ Redox Manipulation (ISRM) Phase III drilling was completed. This completes the successful installation of all 17 planned wells. Phase III well injections were also initiated. Three observation wells were installed as part of the mitigation field activities, and subsurface samples collected for geochemical and geotechnical analysis.

The three River Corridor groundwater pump and treat systems operated above the 90 percent availability level in March.

Central Plateau Transition:

A significant decommissioning project milestone was achieved during March at the highly contaminated 233-S Plutonium Concentration Facility. The last two process hood vessels (L-10 and L-15) were removed from the facility. This completes the successful, early removal of all 15 vessels that was started in early FY00. This scope (vessel removal) was originally scheduled for completion in March 2003. Nondestructive assays and waste shipments are also experiencing good progress.

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NOTABLE ACCOMPLISHMENTS continued:

Geoprobe® decommissioning was initiated at the 200-CW-5 Operable Unit. Final approval of the Sampling and Analysis Plans (SAPs) for the 200-CW-5 and 200-PW-1 Operable Units was also received from the U.S. Environmental Protection Agency (EPA).

The two Central Plateau pump and treat systems operated above the 90 percent availability level in March.

Site Integration and Infrastructure:

Assembly of the Groundwater/Vadose Zone (GW/VZ) Integration Project's System Assessment Capability (SAC) hardware and two realization shakedown runs were completed. A rerun of the initial assessment was also initiated.

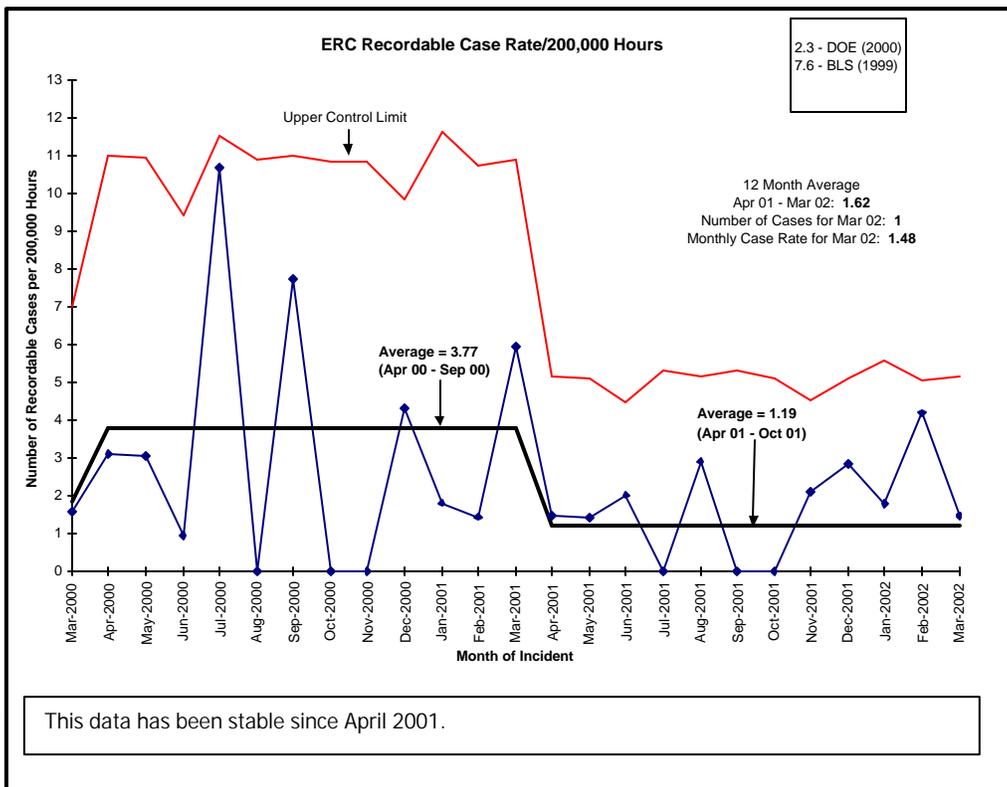
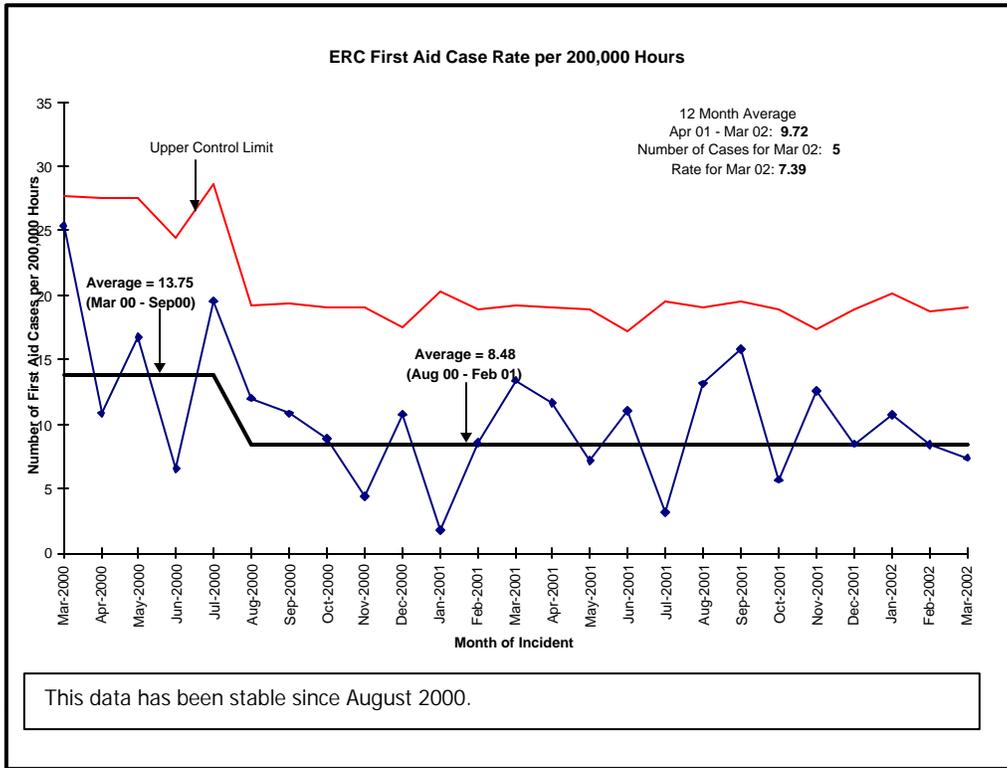
The April – September 2001 GW/VZ Integration Project Semi-Annual Report was delivered to DOE-HQ.

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SAFETY:

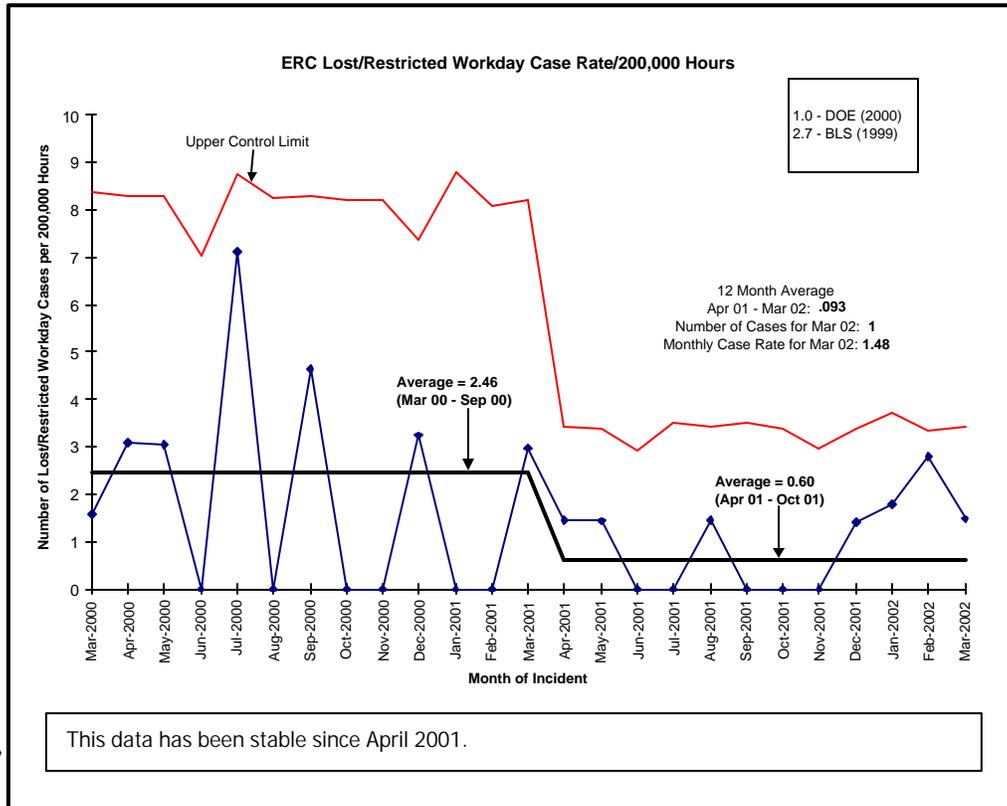


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SAFETY continued:



The following actions have or are being taken by the Environmental Restoration Contractor (ERC) to focus on safety improvements:

- All accidents are thoroughly investigated. Emphasis is placed on causes, and on corrective actions that can be implemented where applicable. Timely discussions are expected to take place in safety meetings and plan of the day (POD) meetings. When investigations have been completed, the results of each investigation are sent to the Area Superintendents, Field Superintendents, and Supervisors to review at the PODs.
- Bechtel Hanford, Inc. (BHI) continues to look for trends and consults with corporate and other Bechtel National, Inc. (BNI) contacts for ways to enhance performance.
- The ERC has received approval from DOE to set in motion the plans to obtain Voluntary Protection Program (VPP) Star Status recognition.
- BHI continues to work closely with the Hanford Atomic Metal Trades Council (HAMTC) Safety Representative to resolve safety issues as they arise.
- Senior management continues to meet with small groups of employees in the field to discuss safety and personal commitment.
- The Field Support General Superintendent and Project Safety Manager continue to visit different projects on a regular basis, meet with project team members, and conduct a safety walkaround. Area Superintendents for Decontamination and Decommissioning (D&D) Projects/233-S, Surveillance, Maintenance, and Transition (SM&T), and Groundwater/Vadose Zone (GW/VZ) Integration Project will be included in these walkarounds. Information from the walkaround is shared with the team and other Field Support personnel. Safety conditions requiring corrective action are assigned to project personnel or support personnel for action and are tracked to closure. This activity is ongoing.
- The ERC has invited "Brown Bag Speakers" to join employees during lunchtime at the 3350 George Washington Way facility to discuss various safety and health topics.

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SAFETY continued:

	FYTD	Current Period (2/18/02- 3/17/02)	Current Period Comments
First Aid	37	5	(5) strain/pain
OSHA Recordable	9	1	(1) back pain (same incident as below)
Restricted Workday Case	4	1	(1) back pain
Lost Workday Case	1	0	N/A

Status:

- As of March 30, the ERC has worked approximately 230,400 hours without a lost workday case. The last incident occurred on January 29 and became a lost time on February 11. Continuous employee involvement is being fostered by the Integrated Environmental Safety and Health Management System (ISMS), Voluntary Protection Program (VPP), labor alliance programs, e-mail communications, and one-on-one meetings with employees.
- An Incident Review Board was held on March 11 to review the improper operation of a crane and issues associated with the fall protection plan at the 105-DR Reactor.
- ERC task teams were established to review oversight of subcontractors and flowdown of Environmental Safety and Health (ES&H) requirements to subcontractors. A management review of both processes was performed. The corrective action plan is complete. Immediate corrective actions are now being worked and will be completed on schedule. Long-term corrective actions are scheduled to be completed by mid-summer, and will provide for effective communication of requirements and positive subcontractor oversight.
- A general safety walkthrough was conducted by the Field Support Area Superintendent and Facilities personnel at the 1120-N facility.
- The ERC has recognized a trend in sprain and strain injuries. Heightened awareness regarding proper lifting techniques, the use of mechanical devices for lifting heavy or awkward loads, proper planning, and increased participation in low impact stretching exercises prior to engaging in lifting, pulling or lifting activities are being utilized to reduce these types of injuries.
- On March 12, a "Brown Bag Speaker" session on Terrorism and Counterintelligence was presented by a Senior Counterintelligence Officer (SCIO) of DOE HQ Office of Counterintelligence, assigned to the Richland Operations Office.
- A VPP communication plan has been completed and will be provided to project and office personnel during safety meetings, PODs, staff meetings, etc. A strategic plan is being formulated on conducting a VPP self-assessment later this summer that will provide information relative to ERC strengths and weaknesses.

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SAFETY continued:

Integrated Environmental Safety and Health Management System (ISMS):

Status:

- BHI is well on the way to full implementation of the ISMS Performance Objectives, Measures, and Indicators Process (hereafter referred to as metrics) that BHI communicated to the U. S. Department of Energy (DOE), Richland Operations Office (RL), in document BHI-01550. To date, BHI is collecting data for 12 of the metrics, with data collection for the remaining 11 scheduled to commence during the next three months. Additionally, the methods/procedures that BHI agreed to develop to address RL's "opportunities for improvement," and to institutionalize this process were either drafted or scheduled for development over the same period. A detailed report outlining progress will be transmitted to RL in early April.
- BHI completed a focused assessment on the ERC herbicide spraying subcontract. The assessment included an evaluation of the safety, services, operations, and implementation of applicable subcontract requirements and *Washington Administrative Code (WAC)* regulations. As a result of the assessment, one Corrective Action Request (CAR) was generated for issues identified for subcontractor oversight involving waste transfer timing and spill response plan details.
- Information on the cultural history of the Hanford Site and training in artifact recognition was provided to the construction team that was awarded the 300-FF-2 solid waste site remediation contract. This training is provided to alert field workers to the potential resources that may be discovered during project activities, and the safety actions that need to be taken should discoveries be made.
- A self-assessment to review regulatory requirements for the 300 Area process trenches and the 183-H solar evaporation basins, as outlined in the Hanford Site *Facility Resource Conservation and Recovery Act of 1976 (RCRA)* was completed on March 27. One observation was noted that would require updating the 183-H and 300 Area Process Trenches training plans to reflect the training requirement for the groundwater sampling and well maintenance activities identified in the postclosure plans.
- An orthophoto map was created for the 100 D Area. The map also included wells, along with the aerial photos for that area. The map will be used to see where wells are located in relation to 100 D Area features.
- RL has closed 69 of the 77 old RL identified BHI action items (from 1995-1999), that have been completed by BHI and show "Closed" in the ERC Corrective Action Tracking System (CATS), but were "Pending RL Verification" in the RL Deficiency Tracking System. Assessments, Regulatory and Quality Programs (ARQP) personnel continue to work with RL to close the remaining 8 items.
- BHI participated in a joint Hanford contractor audit of the Fluor Hanford (FH) WSCF laboratory. While there were six findings and five observations, none were significant or should have any effect on data quality.
- BHI screened 43 self-assessments, 10 occurrence reports, 16 Quality Services surveillance reports, 2 Corrective Action Requests (CARs), 2 management walkthroughs, 2 independent assessments, and 1 trend analysis for PAAA compliance determinations.
- BHI issued a Rev. Order to BHI-MA-02, Procedure 2.16, in response to a self-assessment that found that the procedure was out of alignment with ERC implementing procedures.
- The Washington State Department of Ecology (Ecology) conducted the annual 200 West Area (including ERC facility) inspection as required by the Hanford Site Resource Conservation and RCRA Permit. No concerns were noted.

Conduct of Operations:

Status:

RL Facility Representatives (FR) reported 11 Lock & Tag issues in two surveillance reports in March. BHI is in the process of performing an extensive review of the Lock & Tag program. Monthly updates on the progress of the review are provided to RL during the monthly FR meeting.

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PROCESS IMPROVEMENTS:

Six Sigma:

Status:

- Implementation of the Six Sigma program across the ERC continued.
- A Six Sigma Deployment Program & Yellow Belt Activities summary report package were developed for the monthly progress review.
- A Six Sigma Champions Summary and Yellow Belts checklist tools were developed to document and monitor Yellow Belt activities on a monthly basis.
- Training materials and scheduled Six Sigma Awareness training were developed for 18 RL and 2 PNNL managers. The training content and candidate selection was coordinated by RL Senior Management.
- An external web site for the Safety Basis Process was developed and launched to be used by all BNI sites to include: Oak Ridge, Savannah River, Waste Treatment Plant, INEEL, Yucca Mountain Project, Nevada Test Site, Y12, and Hanford ERC. Currently, the following items are posted on this web page: Contact List, Draft Work Process Flow Charts, Draft Business Case, and meeting minutes. The project schedule and other documents from other Sites will be added later.
- The Draft Six Sigma Program Implementation Plan (Rev. 2) was completed and is currently being reviewed by other BNI site deployment champions.

Process Improvement Projects (PIPs) and status include:

- The Radiological Work Control Process PIP (PIP #6) is in the "Improve Phase" and is approximately 75 percent complete.
- The Waste Management Data Processing PIP (PIP #7) is in the "Measure Phase" and is approximately 25 percent complete.
- The Safety Basis Process PIP (PIP #8) team is established and the business case is being developed:
 - Attended meeting with RL Senior Management to develop a strategy on Safety Basis (SB) across the Hanford site and Complex-wide based on an assessment and the "Top to Bottom" Report.
 - Completed process mapping the existing SB process with BHI and RL subject matter experts (SMEs).
 - Coordinated a meeting with all DOE/Bechtel sites SMEs, Six Sigma Champions, and Six Sigma Yellow belts to discuss standardizing the SB process across the DOE Complex.
- Three processes continue to be evaluated as potential PIP candidates: Subcontractor Oversight & Change Control Process, Waste Container Handling/Distribution Process, and ERC Monthly Progress Review Process.

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MAJOR COMMITMENTS:

Tri-Party Agreement Milestones: Seventeen (17) *Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement)* milestones were planned for completion during FY02 (16 FY02 planned milestones and 1 "to be determined" [TBD] dated milestone). Through March, 11 milestones have been completed; 10 ahead of schedule, and 1 on schedule.

The public comment review period closed on March 14 for the River Corridor draft change packages. Response to comments is being finalized. Central Plateau draft change packages are currently undergoing public comment review until April 12. There are three FY02 milestones being proposed for deletion in these change packages: M-93-12, Issue 105-DR Disposition Competitive Procurement Package (due February 28); M-15-40A, Complete U Pond/Z Ditches Cooling Water Group Field Work Through Sample Collection and Analysis (due September 30); and M-15-42B, Submit 200-TW-2 Operable Unit Draft A Remedial Investigation Report to Ecology (due September 30). River Corridor draft change packages are expected to be approved by April 30. Central Plateau draft change packages are expected to be approved by June 5.

The regulators agreed to extend the completion date for M-16-27C, "Complete 100-HR-3 Phase III ISRM Barrier Emplacement" (due September 30) to June 30, 2003. A change request is being prepared.

Total Tri-Party Agreement Milestones Due in FY02	17*
Total Planned Through March	11
Total Completed Through March	11

*Includes a "TBD" milestone

Remaining Tri-Party Agreement Milestones to be Completed in FY02	6
Forecast Ahead of Schedule	2
Forecast On Schedule	0
Forecast Unrecoverable (change request is being prepared)	1
Proposed to be Deleted	3

EM Corporate Performance Measures:

	DWP FY02	FY02 Mgmt Commitments	Current Baseline	Completed YTD
Waste Site Excavations	13	10*	10	3**
Technology Deployments	0	3	6****	5***

*HQ IPABS currently reporting 12 (change request pending). Performance measure commitments revised due to formal funding guidance received from RL in January and required project rebaselining.

**Excavation of four waste sites was reported completed in the February report. Final sampling results indicated contamination was still present at 116-N-3 that required further excavation.

***HQ IPABS was not updated with reconciliation data provided in January 2002. Therefore, IPABS will not show any deployments completed.

****Two new deployments were added in March (Zipwall and Silicone Rubber Insulated Heaters).

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PERFORMANCE OBJECTIVES:

RL has not formally transmitted final FY02 Performance Incentives (PIs) to BHI.

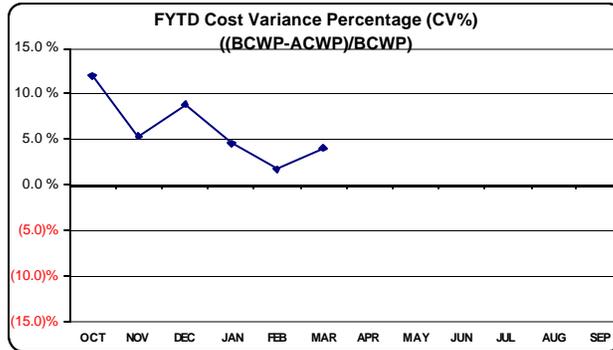
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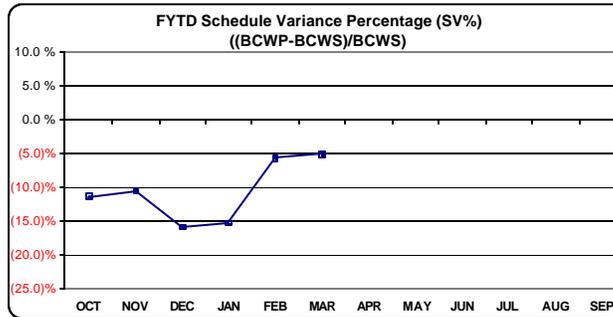
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TOTAL ERC COST/SCHEDULE OVERVIEW:

FY02 ER PERFORMANCE SUMMARY FYTD MARCH 2002 (\$K)



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	EAC
CURRENT PERIOD													
ACWP	10,237	12,390	11,786	13,451	13,111	14,424							
BCWP	11,635	12,272	13,862	12,378	11,904	16,591							
FISCAL YEAR TO DATE													
ACWP	10,237	22,627	34,413	47,864	60,975	75,399							
BCWP	11,635	23,907	37,769	50,147	62,050	78,643							
CV	1,398	1,280	3,356	2,282	1,075	3,244							
CV%	12.0%	5.4%	8.9%	4.6%	1.7%	4.1%							
EAC (Cumulative)	10,237	22,627	34,413	47,864	60,975	75,399	93,398	108,678	125,099	133,340	141,506	153,259	153,259



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	10,994	11,433	14,984	13,383	12,125	15,162	12,865	12,486	13,558	11,837	12,074	14,835
DWP (Accum)	10,994	22,427	37,411	50,794	62,919	78,081	90,946	103,432	116,990	128,827	140,901	155,736
CURRENT PERIOD												
BCWS	13,121	13,631	18,145	14,309	6,629	17,063	15,331	14,376	15,214	8,081	8,043	10,747
BCWP	11,635	12,272	13,862	12,378	11,904	16,591						
FISCAL YEAR TO DATE												
BCWS	13,121	26,752	44,897	59,206	65,835	82,897	98,228	112,604	127,818	135,899	143,942	154,689
BCWP	11,635	23,907	37,769	50,147	62,050	78,643						
SV	(1,486)	(2,845)	(7,128)	(9,060)	(3,785)	(4,254)						
SV%	-11.3%	-10.6%	-15.9%	-15.3%	-5.7%	-5.1%						

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TOTAL ERC COST/SCHEDULE OVERVIEW continued:

**FY02 ER PBS PERFORMANCE SUMMARY
FYTD MARCH 2002
(\$K)**

	FY02 DWP BCWS	CURRENT BCWS	FYTD			YTD SCHEDULE VARIANCE		YTD COST VARIANCE		EAC
			BCWS	BCWP	ACWP	\$	%	\$	%	
RC01	68,776	69,976	37,868	35,335	34,217	-2,533	-6.7%	1,118	3.2%	70,214
RC02	9,444	10,307	2,865	2,693	2,767	-172	-6.0%	-74	-2.7%	10,271
RC05	24,259	27,442	12,466	12,440	12,052	-26	-0.2%	388	3.1%	27,637
RCR-Subtotal	102,479	107,725	53,199	50,468	49,036	-2,731	-5.1%	1,432	2.8%	108,122
CP01	32,663	26,660	16,934	16,080	14,813	-854	-5.0%	1,267	7.9%	25,241
CPT-Subtotal	32,663	26,660	16,934	16,080	14,813	-854	-5.0%	1,267	7.9%	25,241
SS03 - TOTAL	17,141	12,324	8,043	7,802	7,430	-241	-3.0%	372	4.8%	12,076
SS04	3,382	7,901	4,707	4,279	4,110	-428	-9.1%	169	3.9%	7,743
SI&F-Subtotal	20,523	20,225	12,750	12,081	11,540	-669	-5.2%	541	4.5%	19,819
SC01	71	79	14	14	10	0	0.0%	4	28.6%	77
SS-Subtotal	71	79	14	14	10	0	0.0%	4	28.6%	77
ERC TOTAL	155,736	154,689	82,897	78,643	75,399	-4,254	-5.1%	3,244	4.1%	153,259

Schedule Variance Summary:

Through March, the ER Project is \$4.3M (-5.1%) behind schedule. The negative schedule variance is attributed to delay of subcontractor key document submittals for DR Reactor safe storage enclosure (SSE) roof demolition, higher-than-expected radiation readings at the F Reactor fuel storage basin (FSB), and groundwater/vadose modeling and monitoring procurement delays. No significant impacts are expected to result.

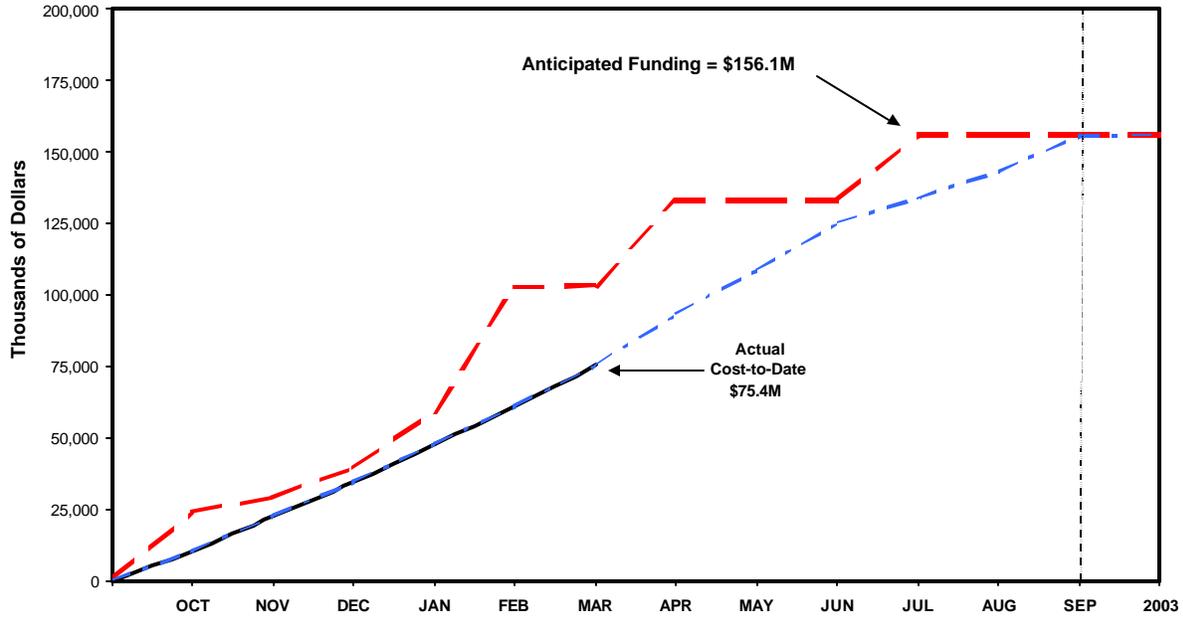
Cost Variance Summary:

At the end of March, the ER Project had performed \$78.6M worth of work, at a cost of \$75.4M. This results in a favorable cost variance of \$3.2M (+4.1%). The positive cost variance is attributed to lower labor and sampling costs at 100 F and 100 B/C remediation sites, 200 Area assessment efforts, labor savings at the 233-S facility decommissioning project, and technology deployment savings at U Pond.

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TOTAL ERC COST/SCHEDULE OVERVIEW continued:

FY02 FUNDS MANAGEMENT



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	2003	TOTAL
ANTICIPATED FUNDING	24,017	29,181	39,603	59,223	102,555	103,295	133,000	133,000	133,000	156,102	156,102	156,102	Est. Outyr. ETC	
ACTUAL/EAC ON APPROVED SCOPE														
1 Actual Cost Through March	10,237	22,627	34,413	47,864	60,976	75,400								
2 Current Monthly EACs	10,237	12,391	11,786	13,451	13,111	14,424	17,999	15,280	16,421	8,241	8,165	11,753		
3 Cumulative EAC	10,237	22,628	34,414	47,865	60,976	75,400	93,399	108,679	125,100	133,341	141,506	153,259	-	153,259
APRIL FY2002 APPROVED BCPs (Through 4/23/02)														
4 RC02 BCP-22071 300 Area Residential Land Use												373		373
5 Subtotal Approved Scope Changes							0	0	0	0	0	373	0	373
APRIL FY2002 PENDING BCPs														
6 RC01 Install Signage Along River Frontage										33	33	34		100
7 RC01 BCP-22067 116-N-1/3 Plumes											45	49		94
8 RC01 BCP-22074 100-BC Pipelines Excavation, Waste Disposal and Transportation						84	84	85	85	85	85	85		508
9 RC02 Additional Contaminated Soil from 618-5 to ERDF											221	222		443
10 RC01 BCP-22073 116-F-1 Excavation, Waste Disposal and Transportation											100	133		233
11 RC01 BCP-22076 116-N-1 Design Changes, Overburden Excavation and Addition of Fiber Bond Matrix								75	75	75	75	76		376
12 SS03 BCP-22077 300-FF-5 Sampling, Richland North Area Sampling and Analysis				20	20	20	25	8						73
13 RC01 BCP-22080 FY02 Groundwater Management Scope Reduction and Deferral							(145)							(145)
14 SS04 BCP-22081 Reduce Scope in VZ Integration & Planning							(6)	(7)	(7)					(20)
15 RC01 BCP-22062 Preparation of ISS Option EE/CA - B Reactor Hazard Mitigation Project												88		88
16 CP01 BCP-22075 Purex CraneWAY Contamination Removal								22						22
17 ALL BCP-22008 Waste Management Phase III Process Improvements							41	41	42	42	42	42		250
18 ALL Provisional Rate Review											800			800
19 ALL Pending Scope Additions, Deletions, Etc.							(58)	(58)	(59)	(59)	(59)	(59)		(352)
20 Subtotal Approved BCPs + Pending BCPs							(64)	177	161	184	1,342	1,043	0	2,843
Summary Totals														
21 Current Monthly EAC + April FY2002 Approved BCPs + Pending BCPs	10,237	12,391	11,786	13,451	13,111	14,424	17,935	15,457	16,582	8,425	9,507	12,796		-
22 Cumulative EAC + April FY2002 Approved BCPs + Pending BCPs	10,237	22,628	34,414	47,865	60,976	75,400	93,335	108,792	125,374	133,799	143,306	156,102	-	156,102

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
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ISSUES (REGULATORY/EXTERNAL/DOE):

See individual Outcome sections.

KEY INTEGRATION ACTIVITIES:

BHI and Fluor Hanford (FH) resolved RL review comments and submitted the Central Plateau Transition Plan on March 14. Implementation began March 18 with Project briefings, tours and DWP/Baseline review. ERC employees affected by the transition attended a FH informational meeting March 25, followed by submittal of FH employment applications by March 28.

BHI submitted the River Corridor Transition Plan Decisional Draft to RL on March 8. Draft review comments were received March 28. Disposition of these comments began in preparation for an April submittal of the final plan.

UPCOMING PLANNED KEY EVENTS:

River Corridor Restoration:

Tri-Party Agreement Milestone M-16-00F, Establish Date for Completion of All 100 Area Remedial Actions (due December 31, 2001) was completed as scheduled. Tri-Parties reached tentative agreement on the River Corridor negotiations on December 31, 2001. The public comment review period closed on March 14 for the River Corridor draft change packages. A response to the public comments is being finalized. A milestone completion letter will be transmitted to the regulators upon change package approval, which is expected by April 30, 2002.

Tri-Party Agreement Milestone M-93-12, Issue 105-DR Disposition Competitive Procurement Package, due February 28, 2002. (This milestone is being proposed for deletion in the draft River Corridor change package.)

Tri-Party Agreement Milestone M-16-03A, Establish Date for Completion of 300 Area Remedial Actions (due June 30, 2002) will be completed upon approval of the River Corridor change packages, which is expected by April 30.

Central Plateau Transition:

The tentative agreement for the Central Plateau (200 Area) negotiations (M-13, M-15, M-16, M-20 milestones) was completed and approved by the Tri-Parties on February 21. Proposed change packages are undergoing a public comment review period. Final approval of proposed changes is expected by June 5, 2002.

Section B - River Corridor Restoration

RC01 - 100 Area River Corridor Cleanup

RC02 - 300 Area Cleanup

RC05 - River Corridor Waste Management



Construction of the New Waste Staging Area at ERDF



Transfer Bay Demolition of D Reactor



Aerial View of I16-N-1 with Bonded Fiber Matrix



I16-N-1 Trench with Bonded Fiber Matrix Applied

Data as of month-end March

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SECTION B – RIVER CORRIDOR RESTORATION

Data as of month-end March

ACCOMPLISHMENTS:

100 Area River Corridor Cleanup (RC01):

Excavation of contaminated pipe, concrete, and soils continued on pipelines 16 and 17 in the 100 B/C Area. Clean overburden removal activities continued on pipelines 18 and 21. Potholes were dug to determine the exact location of two pipelines. Contamination was encountered in the potholes, which indicates contamination may be encountered all along these pipelines. Plume excavation activities were completed on pipelines 1, 2, 3, 4, 6, and 8, and the variance sample design was initiated. Included in the design will be clean overburden stockpiles 3, 7, 11, and 12. During the last week of March, contaminated material loading and pipe shearing activities were suspended in order to excavate potholes and trenches in support of the 100 B/C burial ground design. A total of three trenches and four potholes were excavated from the 118-B-1 and 118-B-3 Burial Grounds.

In the 100 F Area, excavation activities continued at the 1607-F-2 Septic System and 126-F-1 Ash Pit. Variance sampling of the 126-F-1 Ash Pit overburden was also completed. Excavation of plumes from the 116-F-9 Animal Waste Trench, variance sampling, and closeout sampling of the deep zone were completed. Overburden removal activities continued at the 1.1-meter (42-inch) concrete and steel pipelines and the 1.5-meter (60-inch) steel pipelines west of F Avenue, outside the reactor security fence.

The Laser-Assisted Ranging and Data System (LARADS) surveys were completed in early March for the 100 N Area. Results indicate that no radiological "hot spots" are present in the 116-N-3 Crib. Variance samples were collected, and the results will determine the number of closeout samples required in preparation of the cleanup verification package (CVP). A bonded fiber matrix is being applied weekly over the newly excavated areas for long-term minimization of wind erosion and contamination spread. Excavation and loadout of the contaminated material in the 116-N-1 Trench will continue to be the primary activity through May.

An Explanation of Significant Difference (ESD) is being prepared to add new waste sites to the 100 Area Remaining Sites Record of Decision (ROD) using the ROD's existing plug-in approach. The new sites are similar to sites currently identified in the ROD. Additionally, the ESD will modify the plug-in approach with respect to the timing for public notification of newly discovered waste sites.

At D Reactor, hazardous material removal and push rod cutting were completed in the inner rod room. Pourback preparation activities in demolition Area 2 (valve pit/supply fan room area) and Area 3 (fan rooms/exhaust plenum areas) were also completed. Demolition debris pile in Area 3 was loaded into ERDF containers. Demolition of the Transfer Bay in Area 4 (fuel storage basin) was initiated. The excavator was moved to D Reactor on March 27. The new shears will be installed so demolition can resume during the first week of April.

DR Reactor safe storage enclosure (SSE) work continued. Demolition activities are approximately 70 percent complete. The annual RCRA inspection of the Large Sodium Fire Facility Treatment Storage and Disposal Facility at the DR Reactor area was completed and published as a self-assessment. Deficiencies noted were minor and were corrected immediately.

At F Reactor, the third LARADS survey was completed on March 18. Results indicated that one new hot spot was present. On March 18, Fluor Hanford (FH) confirmed that the shipment of F Basin spent nuclear fuel (SNF) could be delivered to K Basin according to the mid-April schedule.

An update on the contamination issues outside the F Reactor Fuel Storage Basin (FSB) was provided to the Washington State Department of Health (DOH). This was prompted by the identification of several additional contamination spots, including one outside the radiological boundary area. The DOH did not identify any concerns and indicated ERC is taking appropriate steps to mitigate and control the issue.

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ACCOMPLISHMENTS continued:

At H Reactor, sampling of the upper fill in the FSB was initiated. The portable Geoprobe® is being used to perform sample collection in three intervals below grade. Overall, penetration down to 4.6 meters (15 feet) below grade has not been difficult. The new excavator arrived on site on March 13. Once the counterweight is installed and training is complete, demolition of the transfer bay and FSB will begin.

100 Area River Corridor surveillance and maintenance (S&M) activities continued through March. The 181-KW oil removal effort in the 100 Area was initiated two weeks ahead of schedule.

The FY02 In Situ Redox Manipulation (ISRM) Phase III well drilling was completed. This completes the successful installation of all 17 planned wells. Phase III well injections were also initiated. Three observation wells were installed as part of the mitigation field activities, and subsurface samples collected for geochemical and geotechnical analysis.

Drilling on the new 100-HR-3 groundwater pump and treat extraction well was initiated in support of the CERCLA Five-Year Review upgrades.

In the 100 Area, the three groundwater pump and treat systems (100-HR-3, 100-KR-4, and 100-NR-2) operated above the planned 90 percent availability levels in March, processing approximately 57.3 million liters of groundwater and removing approximately 3.84 kilograms of chromium and 0.01 curie of strontium. Since system inception, these three pump and treat systems have processed over 3.4 billion liters of groundwater, removing approximately 291 kilograms of chromium and 1.2 curies of strontium.

300 Area Cleanup (RC02):

Mobilization activities continued in support of the 618-4 and 618-5 Burial Ground remediation. Construction of the frisking tent was completed in March. The subcontractor responded to BHI's request for a recovery plan addressing the two-week slippage based on late submittals. The subcontractor is making progress on submittals and is targeting April 3 for completion of job performance training and completion of mock-up training exercises on April 5. The readiness review meeting is scheduled for mid-April.

A baseline change proposal (BCP) was approved for development of a more detailed and representative Conceptual Site Model (CSM) for predicting uranium transport in the 300 Area. The uranium CSM will utilize Kd results from the 300-FF-2 laboratory testing currently under way at Pacific Northwest National Laboratory (PNNL).

River Corridor Waste Management (RC05):

During March, the Environmental Restoration Disposal Facility (ERDF) received 45,788 metric tons (50,473 tons) of waste, for a total of 272,262 metric tons (300,118 tons) received to-date in FY02. A total of 3,132,889 metric tons (3,453,419 tons) have been disposed in ERDF since operations began in July 1996. ERDF Disposal personnel have worked 71 months without a lost-time accident, and the ERDF Transportation team has driven 9,596,505 kilometers (5,962,992 miles) without an at-fault vehicle accident.

The 233-S facility waste package (Box 39) that was exhumed from ERDF for additional characterization was sent to the Waste Receiving and Processing (WRAP) facility for disposal. Disposition of Box 39 to WRAP was agreed upon by RL and the regulators.

The ERDF Record of Decision (ROD) amendment was signed, and the design was approved for the new waste staging area at ERDF. Subcontractor mobilization commenced on March 15, and construction of the waste staging area was initiated on March 18.

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MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS):

TPA Milestone	Description	Due Date	(F)/(A) Date
M-16-00F*	Establish Date for Completion of All 100 Area Remedial Actions	12/31/01	12/31/01 (A)
M-16-27B	Complete 100-HR-3 Phase II, ISRM Barrier Emplacement (Planning, Well Installation, and Barrier Emplacement)	12/31/01	11/20/01 (A)
M-93-12*	Issue 105-DR Disposition Competitive Procurement Package for Ascertaining the Most Effective and Efficient Approach to FEIS ROD Selected Alternative Implementation (....)	2/28/02	Proposed for deletion
M-16-26B	Complete Remediation and Backfill of 51 Liquid Waste Sites in the 100-BC-1, 100-BC-2, 100-DR-1, 100-DR-2, and 100-HR-1 Operable Units and Process Effluent Pipelines in the 100-DR-1, 100-DR-2, and 100-HR-1 OUs. Complete Revegetation of 36 Liquid Waste Sites in the 100-BC-1, 100-DR-1, 100-DR-2, and 100-HR-1 OUs as Defined in RDR/RAWP for the 100 Area	3/31/02	12/11/01 (A)
M16-41B	Submit Closeout Verification Package for JA Jones 1 and 600-23 Waste Sites for EPA Approval	3/31/02	11/30/01 (A)
M-16-03A*	Establish Date for Completion of 300 Area Remedial Actions	6/30/02	4/30/02 (F)
M-16-03G	Establish an Environmental Restoration Disposal Facility (ERDF) Staging Area that is Ready to Receive Drummed Waste from the 618-4 Burial Ground in Accordance with an ERDF Record of Decision Amendment	9/30/02	4/15/02 (F)
M-16-27C**	Complete 100-HR-3 Phase III, ISRM Barrier Emplacement (Planning, Well Installation, and Barrier Emplacement)	9/30/02	6/30/03 (F)
M-16-41C	Complete Backfill and Regrading of JA Jones 1 and 600-23. Revegetation will occur during the following planting season	TBD	12/14/01 (A)

*Tri-Parties reached tentative agreement on the River Corridor negotiations on December 31, 2001. The public comment review period closed on March 14, and approval of proposed changes is expected by April 30, 2002.

**Ecology has agreed to extend the completion date to June 30, 2003. An ESD and change request are being prepared.

PERFORMANCE OBJECTIVES:

RL has not formally transmitted final FY02 PIs to BHI.

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PERFORMANCE MEASURES/METRICS:

FY02 Performance Measures Summary:

PBS	Description	FY02 Mgmt Commit	Current Baseline Due Date	Forecast (F) Actual (A) Date
RC01	Complete Excavation – 100-F-2	X	11/30/01	1/26/02 (A)
RC01	Complete Excavation – 100-F-15	X	5/1/02	12/7/01 (A)
RC01	Complete Excavation – 100-F-19 (Segment 2)	X	8/12/02	8/12/02 (F)
RC01	Complete Excavation – 116-F-2	X	10/12/01	4/15/02 (F)
RC01	Complete Excavation – 126-F-1	X	6/5/02	5/31/02 (F)
RC01	Complete Excavation - 116-F-14	X	11/30/01	12/13/01 (A)
RC01	Complete Excavation - 116-F-9	X	11/26/01	4/15/02 (F)
RC01	Complete Excavation - 1607-F-2	X	7/30/02	5/15/02 (F)
RC01	Complete Excavation – 116-N-3	X	1/3/02	5/31/02 (F)**
RC02	Complete Excavation – 618-4	X	8/15/02	8/15/02 (F)
Total		10*	10	7 (F) 3 (A)

*HQ IPABS currently reporting 12 (change request pending). Performance measure commitments revised due to formal funding guidance received from RL in January and required project rebaselining.

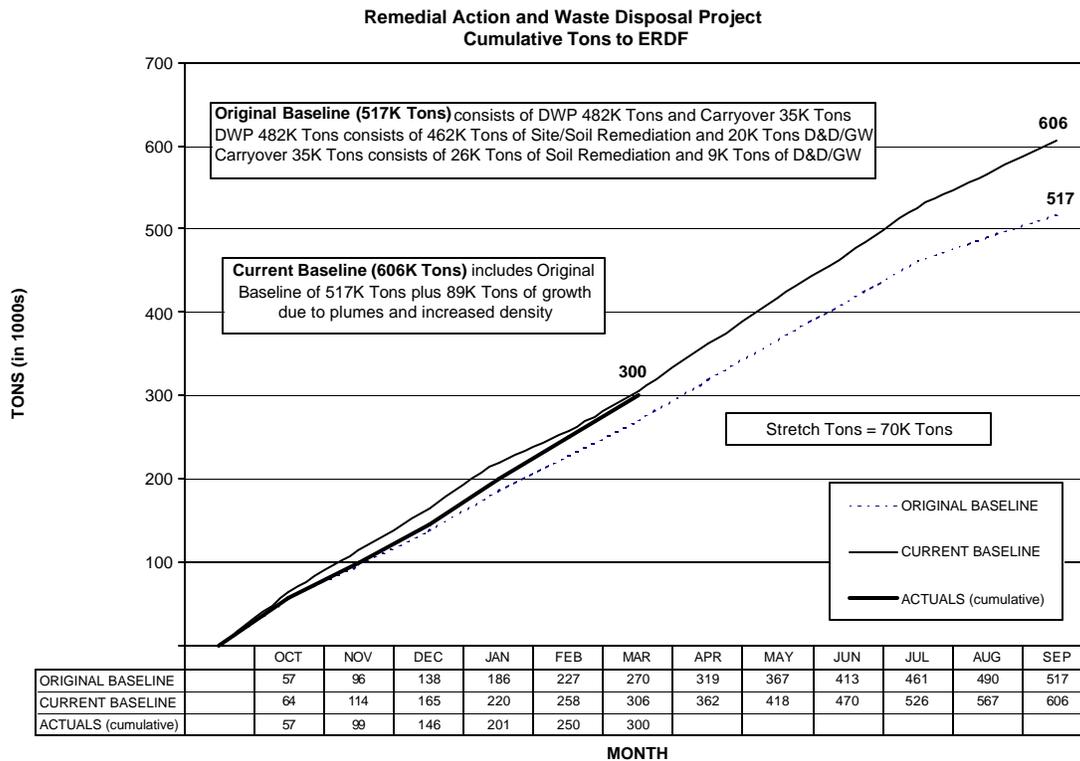
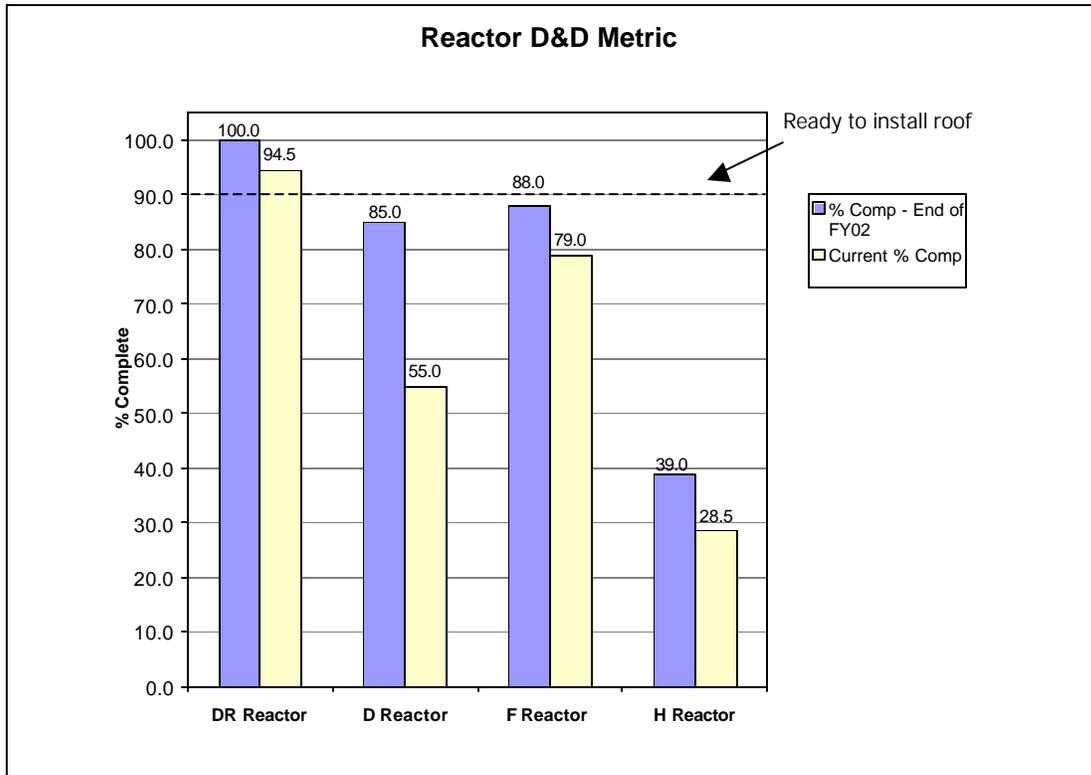
**Excavation of four waste sites was reported completed in the February report. Final sampling results indicated contamination was still present at 116-N-3 that required further excavation.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

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PERFORMANCE MEASURES/METRICS:



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STRETCH AND SUPERSTRETCH GOALS:

RL has not formally transmitted final FY02 goals to BHI.

OUTCOME STATUS (COST/SCHEDULE):

Schedule:

River Corridor Restoration	BCWS	BCWP	Variance
	\$K	\$K	\$K
RC01 100 Area River Corridor Cleanup	37,868	35,335	(2,533)
RC02 300 Area Cleanup	2,865	2,693	(172)
RC05 River Corridor Waste Management	12,466	12,440	(26)
TOTAL River Corridor Restoration	53,199	50,468	(2,731)

PBS-RC01 – 100 Area River Corridor Cleanup

Schedule Variance = **(\$2533K); (6.7%)** [Last Month: (\$2635K); (8.8%)]

Cause: Demolition of DR Reactor safe storage enclosure (SSE) roof behind schedule due to delays in subcontractor key document submittals.

Resolution: Key documents completed, and demolition initiated the end of January. Subcontract has been modified to extend completion date of DR Reactor roof.

Cause: F Reactor fuel storage basin (FSB) demolition and loadout activities took more time than planned due to increased radiation dose rates.

Resolution: Recovery schedule implemented.

Cause: Sampling and analysis activities at 100 B/C Area delayed due to discovery of plumes.

Resolution: Corrective action is being evaluated including impacts as a result of identified plumes and increased contaminated material.

PBS-RC02 – 300 Area Cleanup

Schedule Variance = **(\$172K); (6.0%)** [Last Month: (\$284K); (10.8%)]

Cause: 300-FF-1 staging facility and support documentation behind schedule due to awaiting regulator comments on cleanup verification packages (CVPs). Remedial action activities behind schedule due to awaiting completion of subcontractor's submittals and readiness review.

Resolution: Per regulator request, CVPs will be completed after ongoing Kd study impacts can be incorporated, which is anticipated in August. Final CVP completion date is undergoing project review. Remediation will be initiated late April upon successful completion of the readiness review. Recovery plan has been implemented and full recovery is expected.

PBS-RC05 – River Corridor Waste Management

Schedule Variance = **(\$26K); (0.2%)** [Last Month: (\$151K); (1.5%)]

Cause: N/A

Resolution: N/A

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OUTCOME STATUS (COST/SCHEDULE) continued:

Cost:

River Corridor Restoration	FY02 EAC	BCWP	ACWP	Variance
	\$K	\$K	\$K	\$K
RC01 100 Area River Corridor Cleanup	70,214	35,335	34,217	1,118
RC02 300 Area Cleanup	10,271	2,693	2,767	(74)
RC05 River Corridor Waste Management	27,637	12,440	12,052	388
TOTAL River Corridor Restoration	108,122	50,468	49,036	1,432

PBS-RC01 – 100 Area River Corridor Cleanup

Cost Variance = **\$1118K; 3.2%** [Last Month: \$80K; 0.3%]

Cause: Remediation labor, material, and sampling costs at 100 F and 100 B/C Areas lower than planned.

Resolution: Current 100 B/C underruns expected to be offset by overruns from more extensive pipeline trench contamination than anticipated.

Cause: Herbicide application and 100 Area surveillance labor savings.

Resolution: Underrun reflected in EAC.

PBS-RC02 – 300 Area Cleanup

Cost Variance = **(\$74K); (2.7%)** [Last Month: \$164K; 7.0%]

Cause: Overrun at 300-FF-1 due to delays in subcontractor mobilization and preparation for the readiness review.

Resolution: Anticipated efficiencies are expected during remediation to offset the overrun. Overrun reflected in the EAC.

PBS-RC05 – River Corridor Waste Management

Cost Variance = **\$388K; 3.1%** [Last Month: \$184K; 1.8%]

Cause: Lower driver and subcontract costs at ERDF due to elimination of planned overtime.

Resolution: Overtime and subcontract costs expected to increase in spring/summer months to recover schedule slippage.

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ISSUES (REGULATORY/EXTERNAL/DOE):

100 N Area Remediation: Results of RESidual RADioactivity modeling performed using borehole data for the 116-N-1 Crib and Trench indicate that the site will not attain groundwater Remedial Action Objectives (RAOs) following excavation. The results indicate that the lowest vadose zone layer contributes contaminants at levels above the RAOs.

Status: A plan to identify the path forward for site closure is currently being developed.

Decontamination and Decommissioning (D&D) Worker Turnover: 16 out of 17 Reactor ISS D&D staff have transferred through the Labor Assets Management Program (LAMP) process since the beginning of FY01.

Status: The remaining experienced worker knowledge base continues to be lost. The project is continually rearranging staff for more experienced personnel to support critical work (F Basin).

INTEGRATION ACTIVITIES:

Integration Activities:

The 331-B Building (300 Area) demolition project kick-off meeting was held on March 7 to introduce the key personnel and to ensure the project scope, budget, schedule, etc. was understood. The project team also performed a walkdown of the facilities. Phase I activities include data quality objective (DQO) and detailed schedule development and performing preliminary radiological surveys.

BHI worked with Fluor Hanford (FH) to resolve FH's need to use the exterior area of the 308 Building (300 Area) as a personal protective equipment (PPE) staging area.

Section C - Central Plateau Transition

CP01 - 200 Area Remediation



Getting the 211-S Asbestos Abatement Job Done Safely



Removing Miscellaneous Piping at 233-S



276-S-141 & 142 Hexone Tanks Interim Stabilization



Employing Work Securing Devices at 233-S

Data as of month-end March

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SECTION C – CENTRAL PLATEAU TRANSITION

Data as of month-end March

ACCOMPLISHMENTS:

200 Area Remediation (CP01):

Central Plateau Remediation and Groundwater Monitoring Activities:

Geoprobe® decommissioning was initiated at the 200-CW-5 Operable Unit. Final approval of the Sampling and Analysis Plan (SAP) for the 200-CW-5 Operable Unit was also received from the U.S. Environmental Protection Agency (EPA).

An ecological data quality objective (DQO) meeting was held with the Washington State Department of Ecology (Ecology) for the 200-CW-1 Operable Unit.

Two draft SAPs were delivered to Ecology and EPA that outline the proposed FY03 groundwater monitoring network for the 200-UP-1 and 200-PW-1 Operable Units. This closes EPA Five-Year Action Items 200-3 and 200-6.

In the 200 Area, both groundwater pump and treat systems (200-UP-1 and 200-ZP-1) operated above the planned 90 percent availability levels in March, processing approximately 25.4 million liters of groundwater. Since system inception, these two pump and treat systems have processed approximately 2.3 billion liters of groundwater. Approximately 93 kilograms of carbon tetrachloride were removed by 200-ZP-1 in March. Approximately 6,384 kilograms of carbon tetrachloride have been removed by 200-ZP-1 to date. Approximately 574.2 million liters of groundwater have been transported to the ETF for processing since 200-UP-1 began operation. 343 million liters were previously processed prior to using the ETF.

233-S Plutonium Concentration Facility Decommissioning:

Vessels L-10 and L-15 were removed during March. This completes the successful, early removal of all 15 vessels that was started in early FY00. This scope (vessel removal) was originally scheduled for completion in March 2003. Scaffold/plastic enclosure removal at the south end of the fourth-floor viewing room was completed. In addition, 280 meters (920 feet) of miscellaneous process pipe were removed. 16 waste packages, one 208-liter (55-gallon) drum, and 6 transuranic (TRU) waste drums were assayed. 48 TRU waste drums were shipped to the Central Waste Complex (CWC), and 6 burial boxes were shipped to ERDF. Box 39 was shipped from ERDF to the Waste Receiving and Processing (WRAP) facility. The Standard Waste Box (SWB) Safety Analysis Report Plan (SARP) was submitted to RL for review.

Central Plateau Surveillance and Maintenance (S&M) activities:

The final report for interim stabilization of the 211-U Tank Farm area was completed.

As part of the Remedial Action Radiation Area (RARA) Central Plateau interim stabilization effort, work on the 291-U stack was initiated one month ahead of schedule.

Central Plateau spring revegetation was completed three weeks ahead of schedule.

The 200 Area risk assessment hexone tank stabilization effort was completed two weeks ahead of schedule.

The 221-B Safety Analysis Report (SAR) was transmitted to RL for review.

Training for the B Plant filter changeout was completed. Filter changeout is scheduled to begin in mid-April.

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MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS):

TPA Milestone	Description	Due Date	(F)/(A) Date
M-13-26	Submit Plutonium/Organic-Rich Process Waste Group (200-PW-1) Work Plan	12/31/01	12/26/01 (A)
M-13-00L	Submit 3 200 NPL RI/FS (RFI/CMS) Work Plans	12/31/01	12/26/01 (A)
M-15-40A*	Complete U Pond/Z Ditches Cooling Water Group Field Work Through Sample Collection and Analysis	9/30/02	Proposed for deletion
M-15-42B*	Submit 200-TW-2 OU Draft A Remedial Investigation Report to Ecology	9/30/02	Proposed for deletion
M-15-41B*	Submit 200-TW-1 OU Draft A Remedial Investigation Report to EPA	10/30/02	10/30/02 (F)
M-13-00M*	Submit 3 200 NPL RI/FS (RFI/CMS) Work Plans	12/31/02	12/31/02 (F)
M-20-39*	Submit 216-S-10 Pond and Ditch Closure/Post Closure Plan to Ecology in Coordination with the Work Plan for the Chemical Sewer Group	2/28/03	11/30/05 (F)
M-15-38A*	Submit Draft A Gable Mountain Pond/B Pond and Ditch Cooling Water Group Feasibility Study and 216-B-3 Pond System RCRA TSD Unit Closure Plan and Submit Draft A Gable Mountain Pond/B Pond and Ditch Cooling Water Group Proposed Plan/Proposed RCRA Permit Modification	3/31/03	3/31/03 (F)

*Milestones are addressed in the Central Plateau draft change packages currently undergoing public comment review period. Final approval of proposed changes is expected by June 5.

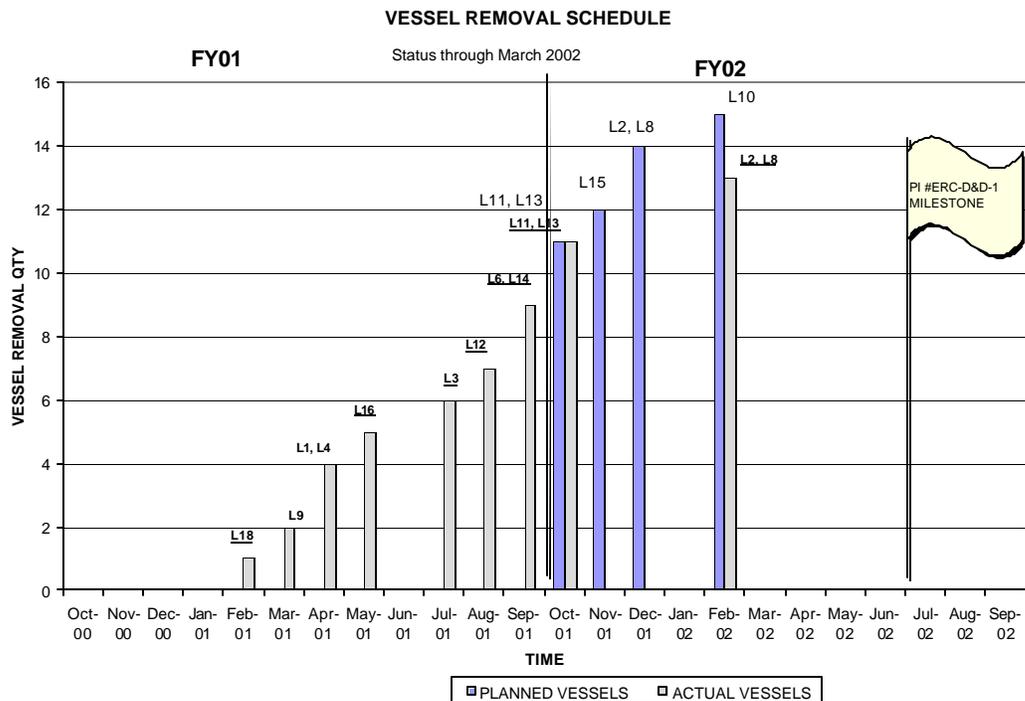
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PERFORMANCE OBJECTIVES:

PI	Task	Status
233-S*	<ul style="list-style-type: none"> 8 vessels by 6/30/02 7 additional vessels by 6/30/02 (Stretch) 	Vessel removal was completed in March. Efficiency in extracting process vessels from the 233-S facility has enabled BHI to complete removal of all the vessels one year ahead of schedule. The original baseline called for removal of 8 vessels by June 30, 2002. In that timeframe, all 15 vessels within the facility were actually removed. Additionally, disposition of the vessels from the facility to an approved waste storage facility will be completed by the end of May 2002, 16 months ahead of the baseline schedule.



*Multi-year PI developed in FY01. RL has not formally transmitted final FY02 PIs to BHI.



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PERFORMANCE MEASURES/METRICS:

Technology Deployment	PBS	Planned Date	(F)/(A)**
Protean Gas Flow Proportional Counter	CP01		10/01 (A)**
ZipWall	CP01		11/01 (A)**
*Small-Diameter Geophysical Logging System Passive Neutron Logging Probe	CP01	3/31/02	2/02 (A)**
*Small-Diameter Geophysical Logging System Gamma Logging Probe	CP01	3/31/02	2/02 (A)**
Silicone Rubber Insulated Heaters	CP01		3/02 (A)**

* ERC identified two technologies for Central Plateau Transition to be deployed during FY02.

**HQ IPABS was not updated with reconciliation data provided in January 2002. Therefore, IPABS will not show any deployments completed.

STRETCH AND SUPERSTRETCH GOALS:

233-S multi-year PI developed in FY01. RL has not formally transmitted final FY02 goals to BHI.

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OUTCOME STATUS (COST/SCHEDULE):

Schedule:

Central Plateau Transition	BCWS	BCWP	Variance
	\$K	\$K	\$K
CP01 200 Area Remediation	16,934	16,080	(854)
TOTAL Central Plateau Transition	16,934	16,080	(854)

PBS-CP01 – 200 Area Remediation

Schedule Variance = **(\$854K); (5.0%)** [Last Month: (\$482K); (3.7%)]

Cause: Process hood vessel waste disposal activities at 233-S facility D&D project behind schedule due to NDA issues requiring new subcontract placement; late start on structural steel removal.

Resolution: New NDA subcontract signed and work commenced. First waste shipment to Central Waste Complex (CWC) was delivered in March. Final shipment scheduled for May. A recovery schedule for structural steel removal has been implemented with full schedule recovery expected before June 30.

Cause: U Pond Geoprobe® extractions put on hold pending regulator direction to allow removal at time of remediation.

Resolution: Waiting for regulator direction.

Cost:

Central Plateau Transition	FY02 EAC	BCWP	ACWP	Variance
	\$K	\$K	\$K	\$K
CP01 200 Area Remediation	25,241	16,080	14,813	1,267
TOTAL Central Plateau Transition	25,241	16,080	14,813	1,267

PBS-CP01 – 200 Area Remediation

Cost Variance = **\$1267K; 7.9%** [Last Month: \$426; 3.4%]

Cause: D&D at 233-S facility performed with fewer craft resources.

Resolution: Underrun reflected in EAC.

Cause: Labor efficiencies and reduced RARA equipment costs.

Resolution: Underrun reflected in EAC.

Cause: Technology deployment utilizing a Geoprobe® in lieu of installing drive casings at U Pond resulted in labor and contract savings.

Resolution: Underrun reflected in EAC.

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ISSUES (REGULATORY/EXTERNAL/DOE):

Standard Waste Box (SWB): The existing SWB Safety Analysis Report for Packaging (SARP) has not been revised in approximately nine years and no revisions are planned. Multiple Hanford Site contractors are procuring SWB containers to a drawing revision more recent than that listed in the SARP. Lack of an up-to-date SARP may preclude shipment of transuranic (TRU) waste to CWC.

Status: It has been determined the SWB SARP will not be included in the Hanford Site-wide Transportation Safety Document (TSD). A work order was prepared to obtain a DOE-approved Package Specific Safety Document (PSSD) by March 15, or revision to the existing SWB SARP. The revision to the SARP has begun. Resolution of technical issues and comments provided by the multiple organizations involved in this effort have put this task behind schedule. Approval of the SARP and Safety Evaluation Report (SER) that will approve its use is expected to occur by April 19. Additional delays may impact the shipment of eight SWBs from 233-S.

Central Waste Complex (CWC): Authorization Basis and Fire Hazards Analysis issues at CWC have caused them to temporarily restrict the receipt of waste. These restrictions are outside of BHI's control and may prevent shipment of waste from 233-S.

Status: TRU waste can be shipped directly to Waste Receiving and Processing (WRAP) for radiography and then to CWC. EPA has agreed to this plan providing that the shipments do not remain at WRAP for longer than 30 days. CWC is accepting TRU waste from the 233-S project on a case-by-case basis.

INTEGRATION ACTIVITIES:

Integration Activities:

The acting Project Manager, Project Engineer, Area Superintendent, RARA Superintendent, and representatives from RadCon provided a 3-day briefing to Fluor Hanford (FH) personnel in support of the June 30 Central Plateau Transition. Information pertaining to the Surveillance, Maintenance, and Transition (SM&T) Project responsibilities, equipment, surveillances, and other general information was compiled, reported, and presented to FH.

Section D - Site Integration & Infrastructure

SS03 - Groundwater Management & Monitoring

SS04 - Groundwater/Vadose Zone Integration



Dual Wall Percussion Rig at Immobilized Low Activity Wall Drill Site (200 East Area)



Unloading Purgewater Truck Contents



Air Rotary Drilling in 200 Area



Sampling Enclosure in 200 Area



Construction of New 100 D Area Extraction Well

Data as of month-end March

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SECTION D – SITE INTEGRATION & INFRASTRUCTURE

Data as of month-end March

ACCOMPLISHMENTS:

Groundwater Management and Monitoring (SS03):

A draft of the Final Status Groundwater Monitoring Plan for the Hanford Site 200 East Area Low Level Burial Grounds was completed and circulated to Fluor Hanford (FH) and RL for review.

The S-SX Waste Management Area assessment report was also published and distributed.

Groundwater/Vadose Zone Integration (SS04):

Discussions were held with the Confederated Tribe of the Umatilla Indian Reservation (CTUIR) regarding the Central Plateau Risk Framework.

The April – September 2001 GW/VZ Integration Project Semi-Annual Report was delivered to DOE-HQ.

Assembly of the System Assessment Capability (SAC) hardware and two realization shakedown runs were completed. A rerun of the initial assessment was also initiated.

The draft Vadose Zone Transport Field Study FY02 test plan was submitted to RL for review.

A draft white paper was completed that recommended incorporation of the air pathway into SAC, Rev. 1.

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS):

TPA Milestone	Description	Due Date	(F)/(A) Date
M-24-53	Install Two (2) Additional Wells at SST WMA TX-TY	12/31/01	11/8/01 (A)
M-24-54	Install One (1) Additional Well at SST WMA T	12/31/01	10/18/01 (A)
M-24-55	Install Two (2) Additional Wells at SST WMA S-SX	12/31/01	11/8/01 (A)
M-24-00M	Install RCRA Groundwater Monitoring Wells at Rate of Up to 50 in Calendar Year 2001 if Required	12/31/01	11/8/01 (A)
M-24-00N*	Install RCRA Groundwater Monitoring Wells at Rate of Up to 50 in Calendar Year 2002 if Required	12/31/02	*

*Currently being negotiated under C3T process.

PERFORMANCE OBJECTIVES:

RL has not formally transmitted final FY02 PIs to BHI.

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PERFORMANCE MEASURES/METRICS:

ERC identified one technology for Site Integration and Infrastructure to be deployed during FY02.

Technology Deployment	PBS	Planned Date	(F)/(A) Date
Advanced Tensiometer	SS04	3/31/02	9/30/02 (F)

STRETCH AND SUPERSTRETCH GOALS:

RL has not formally transmitted final FY02 goals to BHI.

OUTCOME STATUS (COST/SCHEDULE):

Schedule:

Site Integration & Infrastructure	BCWS	BCWP	Variance
	\$K	\$K	\$K
SS03 – Groundwater Management & Monitoring	8,043	7,802	(241)
SS04 - Groundwater/Vadose Zone Integration	4,707	4,279	(428)
TOTAL Site Integration & Infrastructure	12,750	12,081	(669)

PBS-SS03 – Groundwater Management and Monitoring

Schedule Variance = **(\$241K); (3.0%)** [Last Month: (\$113K); (1.7%)]

Cause: PNNL groundwater modeling and monitoring behind schedule due to late purchase and contract placements.

Resolution: Schedule recovery expected.

PBS-SS04 – Groundwater/Vadose Zone Integration

Schedule Variance = **(\$428K); (9.1%)** [Last Month: (\$117K); (3.3%)]

Cause: Late arrival of System Assessment Capability (SAC) computer system; delays in assembly and testing of hardware.

Resolution: SAC computer system arrived in February; modeling runs are proceeding and taking less time than expected with full schedule recovery expected.

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OUTCOME STATUS (COST/SCHEDULE) continued:

Cost:

Site Integration & Infrastructure	FY02 EAC	BCWP	ACWP	Variance
	\$K	\$K	\$K	\$K
SS03 – Groundwater Management & Monitoring	12,076	7,802	7,430	372
SS04 - Groundwater/Vadose Zone Integration	7,743	4,279	4,110	169
TOTAL Site Integration & Infrastructure	19,819	12,081	11,540	541

PBS-SS03 – Groundwater Management and Monitoring

Cost Variance = **\$372K; 4.8%** [Last Month: \$195K; 3.0%]

Cause: PNNL savings in sampling and preparation of groundwater monitoring annual report.

Resolution: Underrun reflected in EAC.

PBS-SS04 – Groundwater/Vadose Zone Integration

Cost Variance = **\$169K; 3.9%** [Last Month: \$26K; 0.8%]

Cause: Labor savings in development of S&T Roadmap; missed accruals due to implementation of new Accounts Payable (AP) system within PNNL.

Resolution: Roadmap savings reflected in EAC; accruals will be corrected upon completion of new AP system.

ISSUES (REGULATORY/EXTERNAL/DOE):

None identified at this time.

INTEGRATION ACTIVITIES:

None identified at this time.