



# **Section O**

## ***Groundwater/Vadose Zone Integration***

### **PROJECT MANAGERS**

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## INTRODUCTION

The Groundwater/Vadose Zone Integration, Project Baseline Summary (PBS) RL-SS04, Work Breakdown Structure (WBS) 3.4.4, consists of Science and Technology, System Assessment Capability, and Characterization.

## NOTABLE ACCOMPLISHMENTS

**Groundwater/Vadose Zone Integration** — The upgrade of the System Assessment Capability was completed (reducing computer run-time by factor of thirty), and an Expert Panel plan was issued to stakeholders for comment. (This external panel of experts provides technical review and recommendations to RL.) In addition, tribal interface activities with the Umatilla and Nez Perce nations continued.

## Safety

All Central Plateau Remediation Project (CP) Safety and Conduct of Operations information is reported in section F.

## BREAKTHROUGHS / OPPORTUNITIES FOR IMPROVEMENT

### Breakthroughs

None to report.

### Opportunities for Improvement

None to report.

## UPCOMING ACTIVITIES

**Groundwater/Vadose Zone Integration** – Complete development of the Rock Sand Module of the Virtual Library.

**System Assessment Capability (SAC)** – A report will be issued on the initial assessment of the Hanford Site's impact on the region performed with the SAC computer models.

## MILESTONE ACHIEVEMENT

### FH Contract Milestones

None to report.

## PERFORMANCE OBJECTIVES

None to report.

## FY 2002 SCHEDULE / COST PERFORMANCE – ALL FUND TYPES FY TO DATE STATUS – (\$000)

Sub-Project	FISCAL YEAR TO DATE							
	BCWS	BCWP	ACWP	SV	%	CV	%	BAC
PBS SS04 WBS 3.4.4.1 Management & Integration	465	404	237	(62)	-13%	167	41%	2,272
PBS SS04 WBS 3.4.4.3 System Assessment Capability	106	78	74	(28)	-26%	4	5%	407
PBS SS04 WBS 3.4.4.4 Characterization	58	40	16	(18)	-31%	24	60%	287
<b>Total GW Vadose Zone Integration</b>	<b>629</b>	<b>522</b>	<b>327</b>	<b>(107)</b>	<b>-17%</b>	<b>195</b>	<b>37%</b>	<b>2,967</b>

## FY TO DATE SCHEDULE / COST PERFORMANCE

The unfavorable schedule variance of \$0.1M (17 percent) is primarily due to delay in identifying members of the Expert Panel, delays in reporting due to transition, unresolved scope issues related to the next module of the Virtual Library, and planning progressing at a slower than expected rate. The favorable cost variance of \$0.2M (37 percent) is primarily due to staff completing previous contractor work not yet in the schedule, mischarged costs due to transition of new staff, and understated accruals.

For all active sub-PBSs and TTPs associated with the Operations/Field Office, Fiscal Year to Date (FYTD) Cost and Schedule variances exceeding + / - 10 percent or one million dollars require submission of narratives to explain the variance.

### Schedule Variance Analysis: (~\$0.1M)

#### Management & Integration — 3.4.4.1/SS04

**Description and Cause:** The unfavorable schedule variance is due to delay in identifying members of the Expert Panel, unresolved scope issues related to the next module of the Virtual Library (VL), and planning progressing at a slower than expected rate.

**Impact:** None.

**Corrective Action:** FY 2003 planning will continue with re-evaluation of earned value due to differences in application between former BHI management and present FH management. The next module of the VL will be developed in FY 2003. Panel meeting expected to occur this fall.

#### System Assessment Capability — 3.4.4.3/SS04

**Description and Cause:** The unfavorable schedule variance is a result of delay of draft revision SAC Specification due to staff being diverted to complete the Assessment Report, and third quarter carryover of Assessment Report.

**Impact:** None.

**Corrective Action:** The review schedule has been shortened by performing planned reviews concurrently, which will recover schedule.

#### Characterization — 3.4.4.4/SS04

**Description and Cause:** The unfavorable schedule variance is due to report activities falling behind schedule as a result of transition.

**Impact:** None.

**Corrective Action:** None.

## Cost Variance Analysis: (+ \$0.2)

### Management & Integration — 3.4.4.1/SS04

**Description and Cause:** The favorable cost variance is primarily due to staff completing previous contractor work not yet in the schedule, and mischarged costs due to transition of new staff.

**Impact:** Combination of causes result in difficult cost analysis.

**Corrective Action:** Baseline change request incorporating work from Bechtel, and correction of unmatched costs will reduce variance.

### Characterization — 3.4.4.4/SS04

**Description and Cause:** The favorable cost variance is primarily due to understated accrual.

**Impact:** None.

**Corrective Action:** July accrual will be replaced with actual July costs.

## ISSUES

### Technical Issues, Regulatory, External, and DOE Issues and DOE Requests

None to report.

## BASELINE CHANGE REQUESTS CURRENTLY IN PROCESS

None to report.