

Pacific Northwest National Laboratory Environmental Management Performance Report

June 2001

**PREPARED FOR THE U.S. DEPARTMENT OF ENERGY, RICHLAND OPERATIONS OFFICE
OFFICE OF ENVIRONMENTAL MANAGEMENT**

**Pacific Northwest National Laboratory
Operated for the U.S. Department of Energy
by Battelle Memorial Institute**

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This document provides the Department of Energy Richland Operations Office (DOE-RL) with a report of the Pacific Northwest National Laboratory (PNNL) performance by Battelle Memorial Institute and its subcontractors.

In Section A, the Executive Summary, text and graphics report the safety metrics status for all PNNL activities. Senior management's overall performance assessment of all Environmental Management activities conducted at PNNL is presented in a stoplight chart.

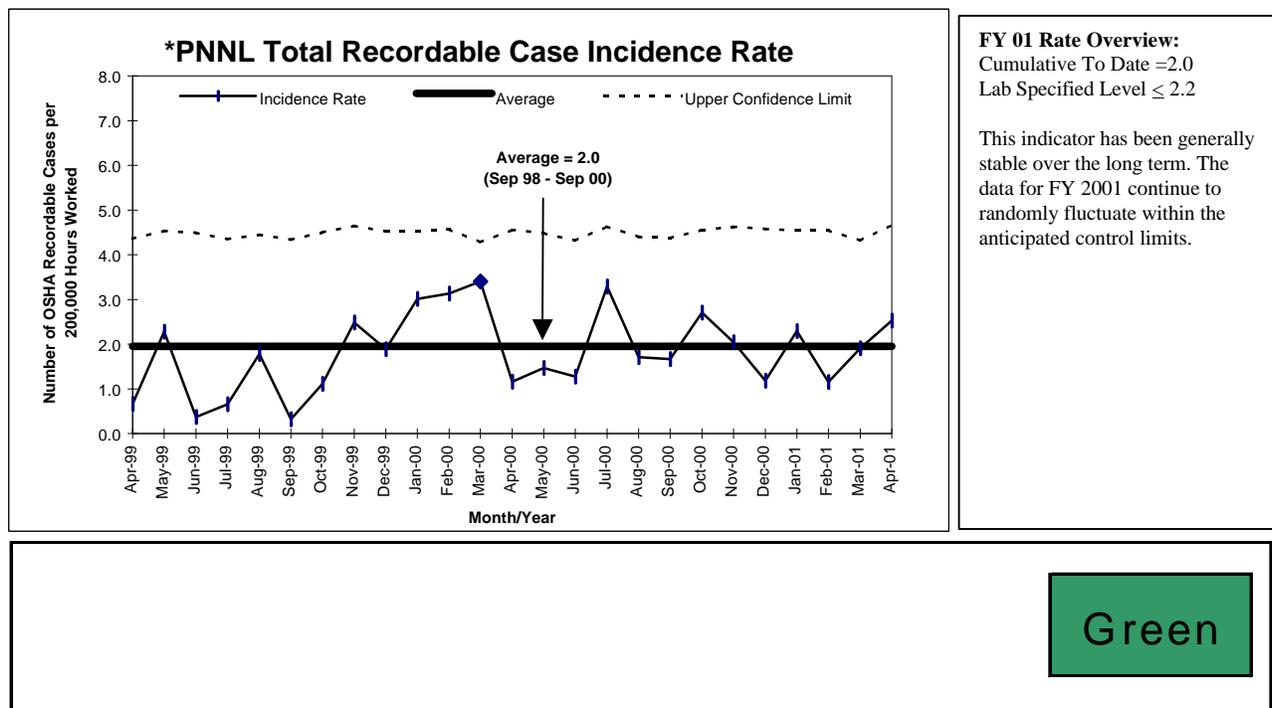
Section B, Project Performance Summary, provides a brief summary of the month's performance for the PNNL lead activity, PNNL Waste Management (PBS RL-ST01). More detailed information can be found within PNNL-7911-115a, PNNL's Project Status Report for April 2001. Summary analyses pertaining to PNNL's support to other Project Baseline Summaries (PBSs) are addressed in the contractor's report having lead responsibility for that scope.

Unless otherwise noted, information in this report is current as of April 29, 2001.

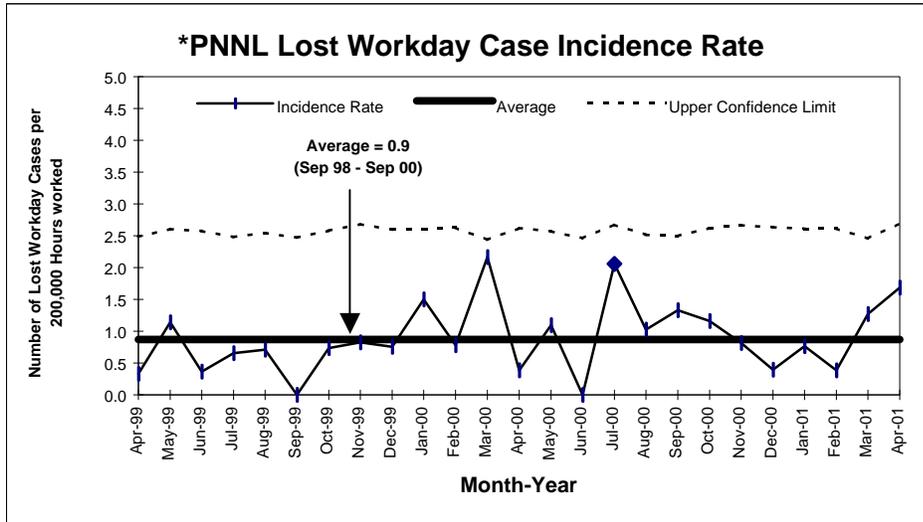
This section provides an executive-level summary of performance information and is intended to bring to management’s attention that information considered to be most noteworthy. The section begins with overview of safety, a summary of FY 2001 performance, followed by a stoplight chart on overall performance.

Safety Overview

The focus of this section is on documenting trends in work-related injury and illness rates. These are the same performance indicators as appear in the FY 2001 Battelle Performance Evaluation and Fee Agreement, which is part of the Pacific Northwest National Laboratory Operations Contract. The monthly rates for Recordable and Lost Workday cases are presented graphically in this section and are monitored for statistically significant changes. Current efforts to improve performance are being made through the continued implementation of the Integrated Safety Management System (ISMS), and the development and implementation of the Voluntary Protection Program (VPP).



*Includes all Pacific Northwest National Laboratory Operations.



FY 01Rate Overview:
 Cumulative To Date = 0.9
 Lab Specified Level ≤ 1.1

This indicator has been generally stable over the long term. The data for FY 2001 continue to randomly fluctuate within the anticipated control limits.

Green

*Includes all Pacific Northwest National Laboratory Operations.

Voluntary Protection Program

For the past four years, PNNL has taken steps towards developing an application to be submitted to DOE-RL and -HQ for consideration of VPP STAR status. In October 2000, PNNL submitted their VPP application electronically to DOE-RL. In December 2000, following their review, DOE-RL forwarded the application to DOE-HQ. DOE -HQ completed review of the application, and the Application Evaluation Review was completed on May 4, 2001. An onsite review was completed May 24, 2001 and at that time the onsite review team determined that PNNL met the requirements for VPP STAR status.

PNNL is the first and only company to submit an application via the Internet, and in August PNNL plans to send representatives to the VPP National Conference in New Orleans to give a presentation on the electronic application process and lessons learned.

Cost/Schedule Performance Stoplight

The following rating reflects overall cost and schedule performance for activities conducted by PNNL. *(Narrative not required when rating is green.)*

Green

Green: Satisfactory
 Yellow: Significant improvement required
 Red: Unsatisfactory

This section provides cost and schedule performance, any significant issues, and upcoming baseline change requests, if any, for the period covered. In FY 2001, Battelle Memorial Institute has lead responsibility over PBS RL-ST01, PNNL Waste Management WBS 1.7.1.

Mission

WBS 1.7.1 provides PNNL with waste management services and compliant operations in support of science and technology development for the multiprogram needs of the U.S. Department of Energy (DOE) Complex. These services include:

- essential surveillance and maintenance of DOE laboratory facilities assigned to PNNL for safe containment of radioactive and hazardous materials
- infrastructure required to manage wastes and effluents currently generated at the PNNL
- operational compliance services to meet regulatory requirements and operating permits including environment, safety, and health regulations
- management of legacy wastes and contamination remaining from past PNNL research operations.

Activity Summary

The following summarizes the activities associated with PNNL Waste Management services and operations conducted during March 2001.

- Scheduled Radiochemical Processing Laboratory (RPL) radiological surveys and nuclear control inspections were performed. Inspections were completed for all excess facilities scheduled, which included 6652-C, D, LP, UP, H, I, J, G, M, 6652-C shed, the small observatory, and 1614-D3. No issues of significance were noted. Minor roof leaks were noted in some of the ALE buildings. Cleanup of the interior floors was done at several facilities.
- Scheduled routine waste management activities were performed during the period. All air and water samples required during the month of April were collected, and confirmed that all routine effluent discharges from Pacific Northwest operations reported to date are below historical release levels and compliant with existing state and federal permits.
- One-hundred-fourteen National Environmental Protection Act (NEPA) reviews were completed on experimental projects within the Laboratory to ensure that the associated project scope will not have potential to create environmental risks.
- Initiated work on special case waste fuel fragment disposition, which is scheduled to be completed this fiscal year. Packaging of the 2718 fuel was completed in preparation for shipment in May to Portsmouth.

Performance Data and Analysis

As of April 29, 2001 the cumulative costs are \$7M with a positive cost variance of \$0.1M and a cumulative schedule variance of negative \$0.6M. The cost and schedule variances are within the 10 % reporting threshold.

Cost Performance (\$M):			
	BCWP	ACWP	Variance
PNNL Waste Management	\$7.1	\$7.0	\$0.1

Schedule Performance (\$M):			
	BCWP	BCWS	Variance
PNNL Waste Management	\$7.1	\$7.8	(\$0.6)

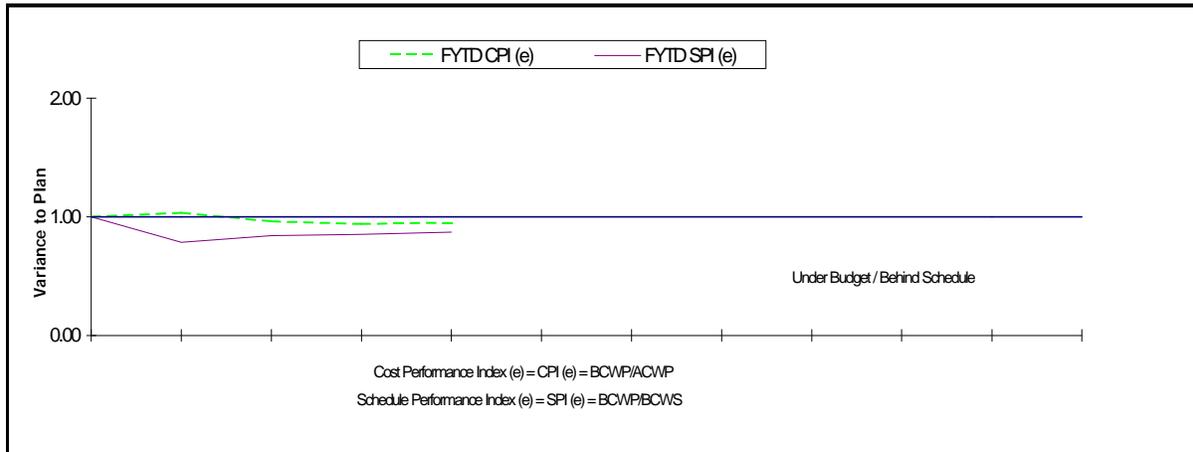
FY 2001 Cost/Schedule Performance - All Fund Types
Cumulative to Date Status - (\$000)

WBS	PBS	BCWS	BCWP	ACWP	CV	%	SV	%
1.7.1	RL-ST01	\$7,826	\$7,138	\$7,047*	\$91	1	(\$689)	-9
Total		\$7,826	\$7,138	\$7,047*	\$91	1	(\$689)	-9

*Numbers reflect PNNL system; per DISCAS actuals, including \$ expended by Fluor for S&M of 242B/BL, are ????. PNNL has \$1,351.1K carryover, is expecting \$14,076K B/A in FY 2001 for a total of \$15,427.1K. Current new B/A authorization is \$9,774.9K

Cost / Schedule Performance Indices

FY 2001 Cum to Date Status
(\$000s)



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	TOTAL
Monthly BCWS	1034	877	1105	998	1135	1071	1607	1233	1364	1718	1420	1829	15390
Monthly BCWP	812	798	961	931	1235	1039	1362						7138
Monthly ACWP	785	888	1061	943	949	1024	1398						7047
Monthly CPI (e)	1.03	0.90	0.91	0.99	1.30	1.02	0.97						
Monthly SPI (e)	0.79	0.91	0.87	0.93	1.09	0.97	0.85						
FYTD BCWS	1034	1911	3016	4014	5149	6219	7826	9059	10423	12141	13561	15390	
FYTD BCWP	812	1610	2571	3502	4736	5776	7138						
FYTD ACWP	785	1672	2733	3676	4625	5649	7047						
FYTD CPI (e)	1.03	0.96	0.94	0.95	1.02	1.02	1.01						
FYTD SPI (e)	0.79	0.84	0.85	0.87	0.92	0.93	0.91						