



# **Section B:2**

## ***Analytical Services (222-S, HASP, WSCF)***

### **PROJECT MANAGERS**

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## **SUMMARY**

Analytical Services [222-S, Hanford Analytical Services Program (HASP), Waste Sampling and Characterization Facility (WSCF)] consists of Analytical Services, PBS WM06, WBS 1.2.4.

NOTE: Unless otherwise noted, the Safety, Conduct of Operations, Milestone Achievement, and Cost/Schedule data contained herein is as of June 30, 2000. Other information is updated as noted.

Fiscal-year-to-date-milestone performance (EA, DOE-HQ and RL) shows no milestones are due this reporting period.

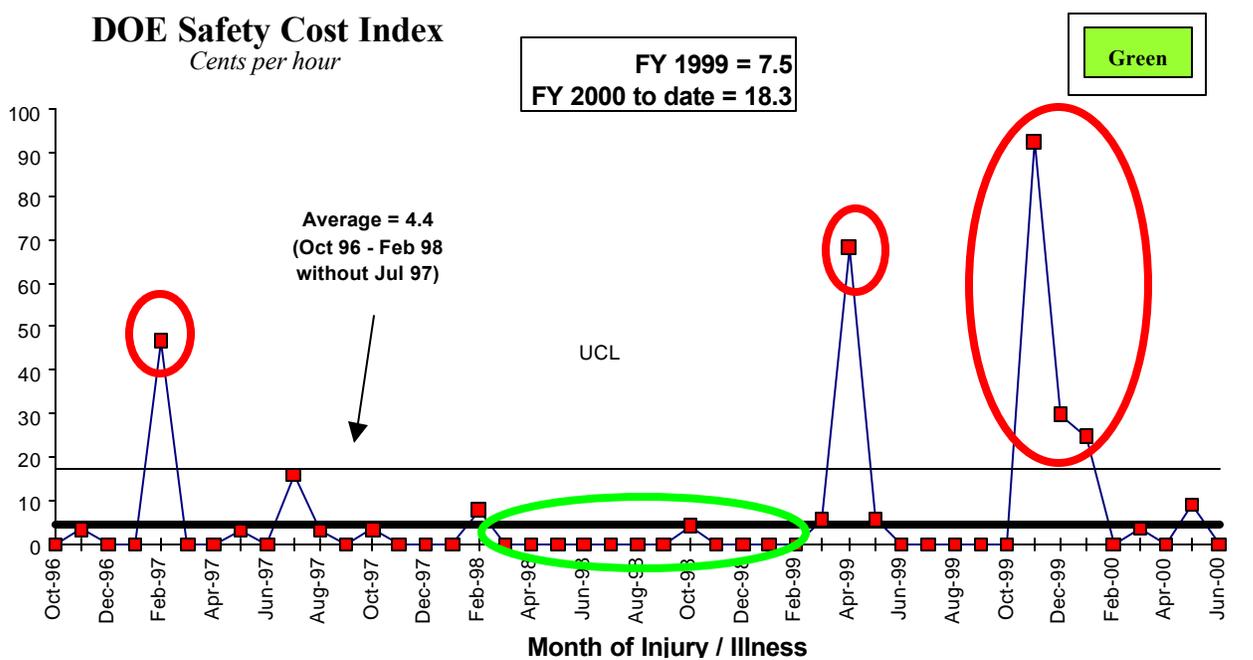
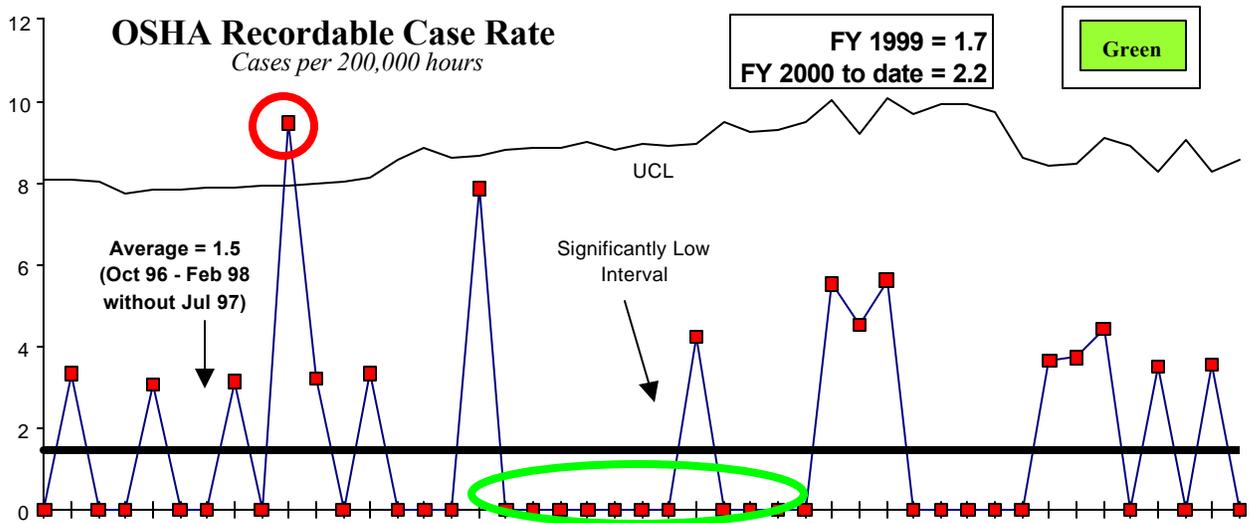
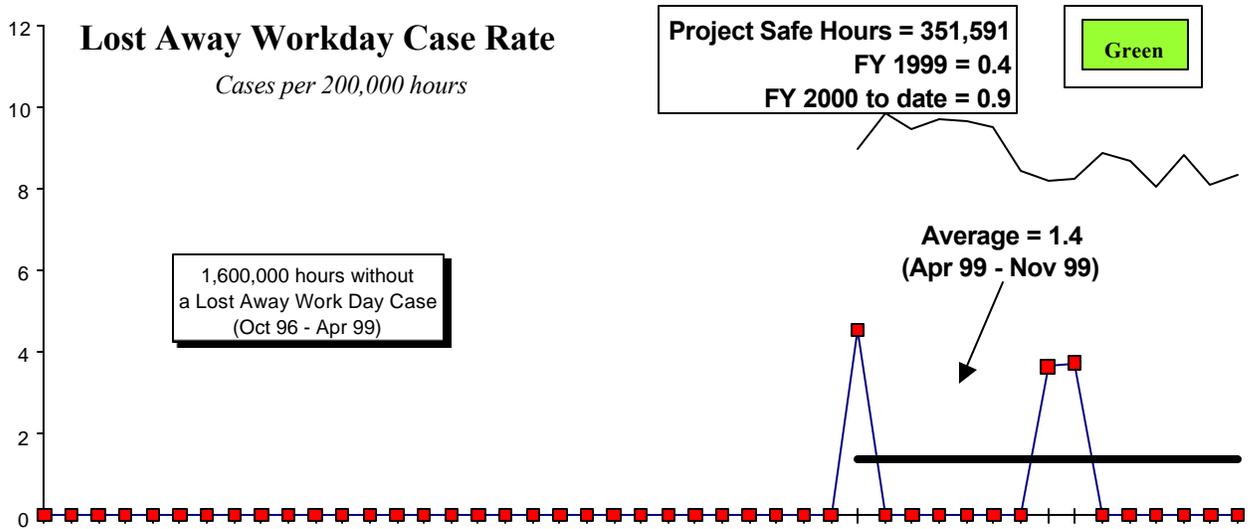
## **ACCOMPLISHMENTS**

- A total of 1.1 Analytical Equivalent Unit (AEUs) processed at the 222-S Laboratory in June 2000 (FYTD) versus the planned 1.2 AEUs in support of the RPP (TWRS) tank characterization program. Production FYTD through July 14, 2000 is 9.7 AEUs. On track to meet the 11 AEU commitment. Agreement was reached with the River Protection Project on remaining support needed for FY 2000.
- Performed 1500 analyses in June at Waste Sampling and Characterization Facility (WSCF) for a wide variety of customers as planned. FYTD production through July 19, 2000 is 13,900 analyses.
- Analytical Services Training identified a method to simplify the tracking of the Chemical Technologist Training Program that significantly decreases the number of qualification cards. Job scope specific training can be tracked using an existing database instead of through Qualification Cards. This method greatly simplifies tracking requirements and increases the flexibility of the program.

## **SAFETY**

In June, there were no Occupational Safety and Health Act (OSHA) recordable or lost/restricted days, and one first aid cases. OSHA recordable case rate is stable at a rate higher than the Project Hanford Management Contract (PHMC) goal of 0.9. For the past six months the Lost Away Case Rate have been below average; a seventh month will be a significant improvement. The project continues to focus on safety and personal and team accountability. A safety council sponsored, employee-lead task team is working to develop near-term and long-term improvements in the ergonomics of handling small casks (called T-handled carriers). Ergonomic self-assessments are occurring for all Analytical Services staff in June and July 2000. Ergonomics have been a source of injuries that need to be prevented.

**PHMC Environmental Management Performance Report – August 2000**  
**Section B: 2 – Analytical Services (222-S, HASP, WSCF)**

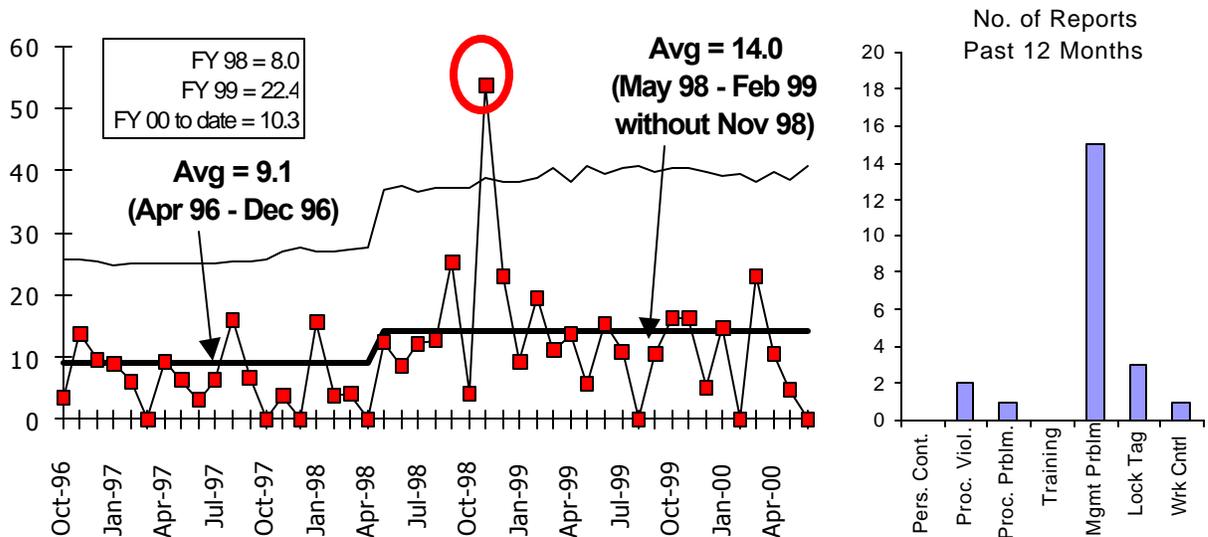


## CONDUCT OF OPERATIONS / ISMS STATUS

### CONDUCT OF OPERATIONS

EVENTS PER 200,000 HOURS

Green



### ISMS STATUS

Green

Analytical Services ISMS status is included in the Waste Management Project Section of this report. Supported successful completion of the Phase II verification.

### BREAKTHROUGHS

Nothing to report.

### OPPORTUNITIES FOR IMPROVEMENT

**Analytical Services Facility and Equipment Upgrades Team:** RL is assessing the framework under which it can maximize its cleanup while working to incorporate a “realistic” funding profile over the next ten to fifteen years. Consistent with the RL outcomes, the priority is on achieving its River Corridor Outcome by 2010 or shortly thereafter. That necessitates a probable re-sequencing of the current baseline activities in the 200 Areas. An Analytical Services Facility and Equipment Upgrades Team is working to identify opportunities for improvement.

### UPCOMING ACTIVITIES

**WIPP Waste Shipments** — Continue to support the production goal of headspace analysis in support of waste shipment to WIPP.

**ORP Readiness to Proceed**— It has been determined that Analytical Services is prepared to support the readiness to proceed decision for the Office of River Protection (ORP) Waste Treatment Plant. Key follow-up actions are:

- Formal specification of requirements from ORP to RL and then to FH
- Stable funding of needed equipment and facility repair in Multi-Year Work Plans (RL and ORP) - (see Opportunities for Improvement section)
- Funding replacement of obsolete laboratory support systems (Information Management)
- Funding of staff to maintain core competency.

### **COST PERFORMANCE (\$M):**

|                     | BCWP   | ACWP   | VARIANCE |
|---------------------|--------|--------|----------|
| Analytical Services | \$20.5 | \$20.2 | \$0.3    |

The \$0.3 million (1 percent) favorable cost variance is within established thresholds.

### **SCHEDULE PERFORMANCE (\$M):**

|                     | BCWP   | BCWS   | VARIANCE |
|---------------------|--------|--------|----------|
| Analytical Services | \$20.5 | \$20.8 | - \$0.3  |

The \$0.3 million (2 percent) unfavorable schedule variance is within the established threshold.

### **FY 2000 COST/SCHEDULE PERFORMANCE – ALL FUND TYPES CUMULATIVE TO DATE STATUS – (\$000)**

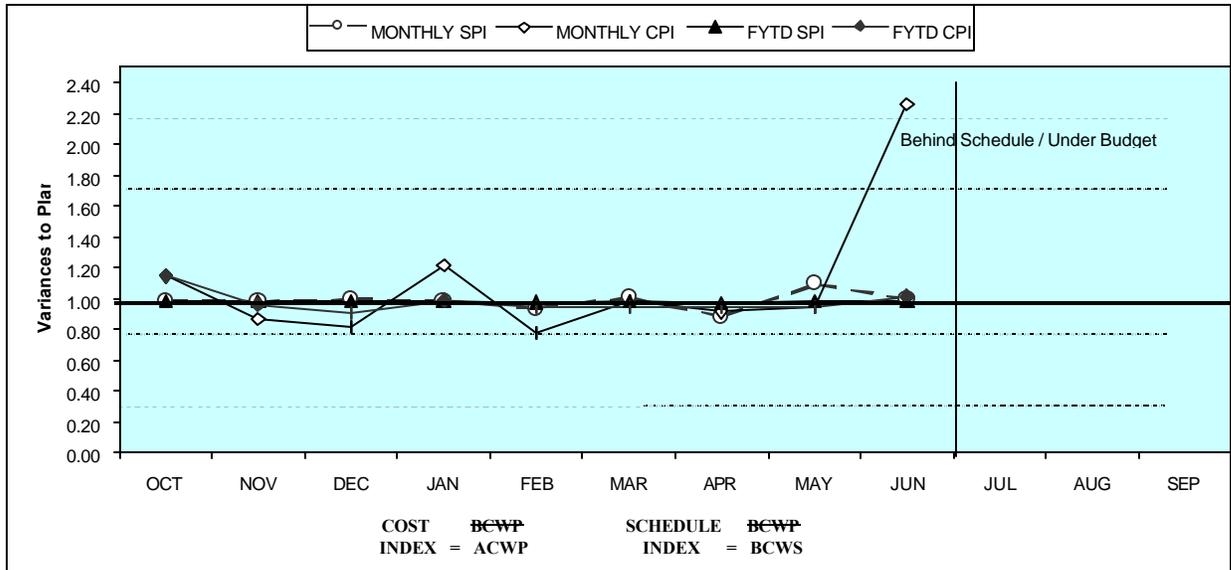
|              |
|--------------|
| <b>Green</b> |
|--------------|

|           |              | FYTD      |           |           |          |     |        |    |           |           |
|-----------|--------------|-----------|-----------|-----------|----------|-----|--------|----|-----------|-----------|
| By PBS    |              | BCWS      | BCWP      | ACWP      | SV       | %   | CV     | %  | PEM       | EAC       |
| WBS 1.2.4 | Analytical   |           |           |           |          |     |        |    |           |           |
| PBSWM06   | Services     | \$ 20,823 | \$ 20,482 | \$ 20,228 | \$ (341) | -2% | \$ 255 | 1% | \$ 27,667 | \$ 27,700 |
|           | <b>Total</b> | \$ 20,823 | \$ 20,482 | \$ 20,228 | \$ (341) | -2% | \$ 255 | 1% | \$ 27,667 | \$ 27,700 |

\*Note: RL-Directed costs (steam and laundry) are included in the PEM BCWS/ACWP.

## COST/SCHEDULE PERFORMANCE INDICES (MONTHLY AND FYTD)

Green



| FY 2000      | OCT     | NOV     | DEC     | JAN     | FEB      | MAR      | APR      | MAY      | JUN      | JUL      | AUG      | SEP      |
|--------------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|
| MONTHLY SPI  | 0.99    | 0.98    | 0.99    | 0.98    | 0.94     | 1.00     | 0.88     | 1.09     | 0.99     |          |          |          |
| MONTHLY CPI  | 1.14    | 0.87    | 0.81    | 1.22    | 0.78     | 0.98     | 0.91     | 0.94     | 2.26     |          |          |          |
| FYTD SPI     | 0.99    | 0.98    | 0.99    | 0.98    | 0.97     | 0.98     | 0.97     | 0.98     | 0.98     |          |          |          |
| FYTD CPI     | 1.14    | 0.96    | 0.91    | 0.99    | 0.94     | 0.95     | 0.94     | 0.94     | 1.01     |          |          |          |
| MONTHLY BCWS | \$1,588 | \$2,340 | \$1,973 | \$2,896 | \$2,283  | \$2,613  | \$2,279  | \$2,358  | \$2,493  | \$1,893  | \$2,507  | \$2,444  |
| MONTHLY BCWP | \$1,566 | \$2,288 | \$1,960 | \$2,848 | \$2,135  | \$2,624  | \$2,010  | \$2,578  | \$2,473  |          |          |          |
| MONTHLY ACWP | \$1,369 | \$2,640 | \$2,414 | \$2,342 | \$2,741  | \$2,686  | \$2,208  | \$2,733  | \$1,093  |          |          |          |
| FYTD BCWS    | \$1,588 | \$3,928 | \$5,901 | \$8,797 | \$11,080 | \$13,693 | \$15,973 | \$18,330 | \$20,823 | \$22,716 | \$25,224 | \$27,667 |
| FYTD BCWP    | \$1,566 | \$3,854 | \$5,814 | \$8,662 | \$10,797 | \$13,421 | \$15,431 | \$18,009 | \$20,482 |          |          |          |
| FYTD ACWP    | \$1,369 | \$4,009 | \$6,423 | \$8,765 | \$11,506 | \$14,193 | \$16,401 | \$19,134 | \$20,228 |          |          |          |

### COST VARIANCE ANALYSIS: (\$0.3M)

**WBS/PBS**

**Title**

1.2.4/WM06

Analytical Services

**Description/Cause:** The favorable cost variance of \$0.3 million (1.0 percent) is within established thresholds.

**Impact:** Current yearend spending projections indicate a \$0.3M overrun.

**Corrective Action:** Corrective actions have been identified and implemented to control spending.

## **SCHEDULE VARIANCE ANALYSIS: (-\$0.3M)**

**WBS/PBS**

**Title**

1.2.4/WM06

Analytical Services

**Description /Cause:** The unfavorable schedule variance of \$0.3M (2 percent) is within established threshold.

**Impact:** None.

**Corrective Action:** None required.

### **FUNDS MANAGEMENT FUNDS VS SPENDING FORECAST (\$000) FY TO DATE THROUGH JUNE 2000 (FLUOR HANFORD, INC. ONLY)**

|  | Project Completion * |      |          | Post 2006 *      |                  |              | Line Items *   |      |          |
|--|----------------------|------|----------|------------------|------------------|--------------|----------------|------|----------|
|  | Expected Funds       | FYSF | Variance | Expected Funds   | FYSF             | Variance     | Expected Funds | FYSF | Variance |
| The Plateau<br>1.2.4 Analytical Svcs (222-S,HASP,WSCF)<br>WM06 |                      |      |          | 26,461           | 26,853           | (392)<br>0   |                |      |          |
| Line Item  |                      |      |          |                  |                  |              |                |      |          |
| <b>Total Analytical Serv. Operating</b>                        |                      |      |          | <b>\$ 26,461</b> | <b>\$ 26,853</b> | <b>(392)</b> |                |      |          |
| <b>Total Analytical Serv. Line Item</b>                        |                      |      |          |                  |                  |              |                |      |          |

\* Control Point

## **ISSUES**

### **Technical Issues**

Nothing to report.

### **DOE/Regulator/External Issues**

**PCB Management** — ORP is establishing a new PCB management approach. Impacts to 222-S and WSCF could be significant, depending on the final approach taken by ORP. DOE-RL plans to seek funding from ORP to assess impacts and implementation costs of ORP changes in regulation approach. Provided input and supported a FH team to respond to the ORP negotiations being held with EPA on the PCB status of the tank farms.

**222-S RCRA Part B Application** — DOE-RL received letter notification from Ecology granting a delay in submittal of the 222-S Laboratory Part B RCRA Application until August 31, 2000. This delay is shorter than requested. Analytical Services is on schedule for delivery on the accelerated date. Analytical Services will deliver the Part B to DOE-RL by August 1, 2000 for certification review.

## BASELINE CHANGE REQUESTS CURRENTLY IN PROCESS (\$000)

| PROJECT CHANGE NUMBER              | DATE ORIGIN | BCR TITLE                       | FY00 COST IMPACT \$000 | SCH | TECH | DATE TO CCB | CCB APR'VD | RI APR'VD | CURRENT STATUS |
|------------------------------------|-------------|---------------------------------|------------------------|-----|------|-------------|------------|-----------|----------------|
|                                    |             | Nothing to report at this time. |                        |     |      |             |            |           |                |
| <b>ADVANCE WORK AUTHORIZATIONS</b> |             |                                 |                        |     |      |             |            |           |                |
|                                    |             | Nothing to report at this time. |                        |     |      |             |            |           |                |

## ANALYTICAL SERVICES – WBS 1.2.4 MILESTONE ACHIEVEMENT

| MILESTONE TYPE        | FISCAL YEAR-TO-DATE |                       |                |         | REMAINING SCHEDULED |                      |               | TOTAL FY 2000 |
|-----------------------|---------------------|-----------------------|----------------|---------|---------------------|----------------------|---------------|---------------|
|                       | Completed Early     | Completed On Schedule | Completed Late | Overdue | Forecast Early      | Forecast On Schedule | Forecast Late |               |
| Enforceable Agreement | 0                   | 0                     | 0              | 0       | 0                   | 0                    | 0             | 0             |
| DOE-HQ                | 0                   | 0                     | 0              | 0       | 0                   | 0                    | 0             | 0             |
| FO                    | 0                   | 0                     | 0              | 0       | 0                   | 0                    | 0             | 0             |
| RL                    | 0                   | 0                     | 0              | 0       | 0                   | 1                    | 0             | 1             |
| <b>Total Project</b>  | 0                   | 0                     | 0              | 0       | 0                   | 1                    | 0             | 1             |

| Tri-Party Agreement / EA Milestones |
|-------------------------------------|
| Nothing to report.                  |
| DNFSB Commitments                   |
| Nothing to report.                  |

## MILESTONE EXCEPTION REPORT

| <u>Number/WBS</u> | <u>Level</u> | <u>Milestone Title</u> | <u>Baseline Date</u> | <u>Forecast Date</u> |
|-------------------|--------------|------------------------|----------------------|----------------------|
|-------------------|--------------|------------------------|----------------------|----------------------|

**OVERDUE – 0**

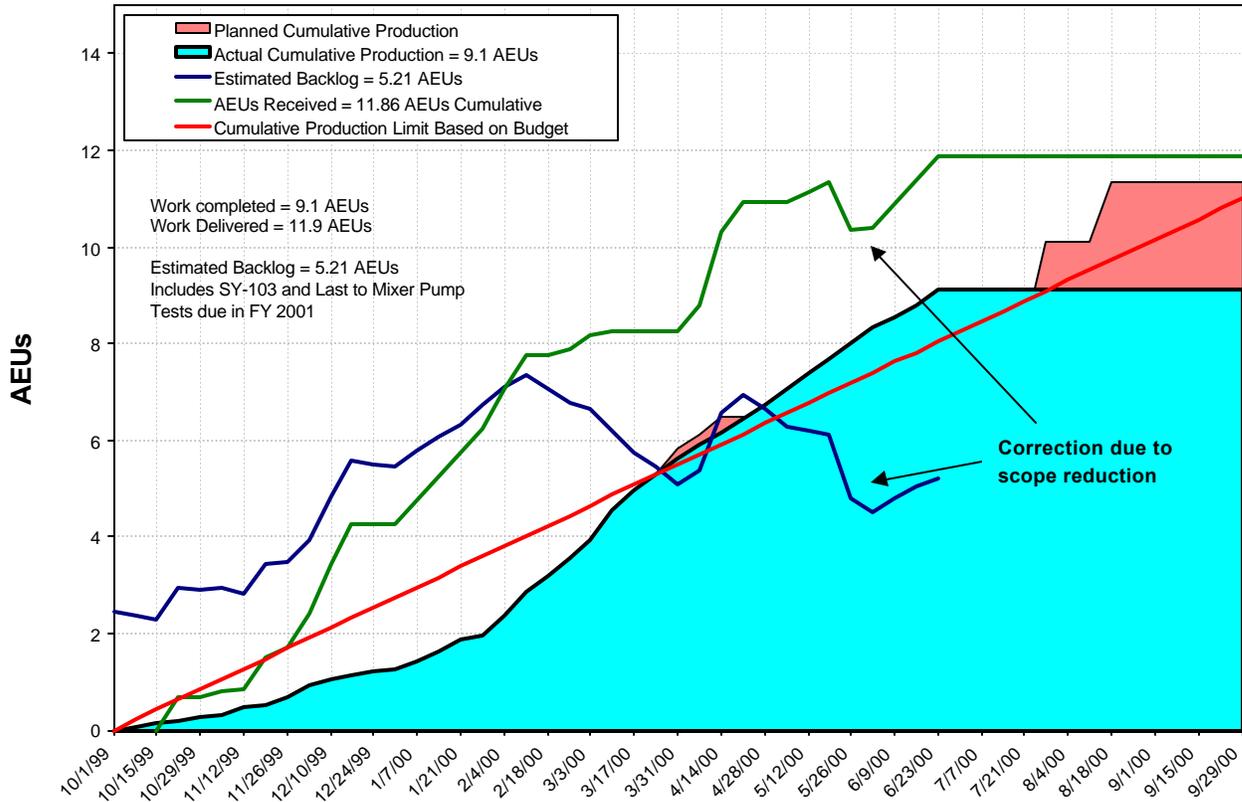
**FORECAST LATE – 0**

## PERFORMANCE OBJECTIVES

**Green**

### FY 2000 RPP SUPPORT AEU PROCESSING (FDH-CP-1-1.A)

June 2000



Continue working with RPP on 222-S laboratory production integration. Will meet the September 2000 commitment of eleven AEUs. Production through June 2000 is 9.1 AEUs, versus a planned 9.3 AEUs. Production through July 14, 2000 is 9.7 AEUs.

## KEY INTEGRATION ACTIVITIES

- Continue to support ORP efforts to establish required analytical support for Waste Treatment Plant (WTP) operations.
  - In the longer term, ORP could utilize unused space at WSCF for cold run test support and process laboratory analytical equipment testing.
  - The 222-S laboratory, with some refurbishment, might become a low cost option to a new large-scale laboratory associated with the WTP.
  - A white paper is being prepared for RPP to address the potential support that 222-S and WSCF could provide to the WTP.