
FINAL

Office of River Protection
Consent Decree 08-5085-FVS
Monthly Summary Report
April 2013

Office of River Protection

**Consent Decree 08-5085-FVS
Monthly Summary Report**

April 2013 (Project EVMS reflects February 2013)

Page	Topic	Leads
1	Statistics / Status	James Lynch / Dan McDonald / Jeff Lyon
2	SST Retrieval and Closure – D-00B-01, -02, -03, -04	Chris Kemp / Jeff Lyon
3	Tank Waste Retrieval Work Plan (TWRWP) Status – Consent Decree Appendix C	Chris Kemp / Jeff Lyon
4	SST Retrieval Monthly and Fiscal Year EVMS Data	Dan Knight / Jeff Lyon
5	WTP - Immobilization Plant Project – D-00A-06, D-00A-17, D-00A-01	Delmar Noyes / Dan McDonald
7	WTP Pretreatment (PT) Facility – D-00A-18, -19, -13, -14, -15, 16	Wahed Abdul / Dan McDonald
10	High-Level Waste (HLW) Facility – D-00A-20, -21, 02, 03	Wahed Abdul / Dan McDonald
12	Low-Activity Waste (LAW) Facility – D-00A-07, -08, -09	Jeff Bruggeman / Dan McDonald
14	Balance of Facilities (BOF) – D-00A-12	Jason Young / Dan McDonald
16	Analytical Laboratory (LAB) – D-00A-005	

Milestone	Title	Due Date	Completion Date	Status
Fiscal Year 2013				
D-00C-02X	Submit to Ecology & State of Oregon Monthly Summary Report	10/31/2012	10/31/2012	Completed
D-00C-02Y	Submit to Ecology & State of Oregon Monthly Summary Report	11/30/2012	11/20/2012	Completed
D-00C-02Z	Submit to Ecology & State of Oregon Monthly Summary Report	12/31/2012	12/26/2012	Completed
D-00A-05	LAB Construction Substantially Complete	12/31/2012	12/31/2012	Completed
D-00A-12	Steam Plant Construction Complete	12/31/2012	12/31/2012	Completed
D-00A-21	Complete Construction of Structural Steel to EL. 37' in HLW Fac.	12/31/2012	10/24/2012	Completed
D-00C-01F	Submit to Ecology & State of Oregon Semi-Annual Report	01/31/2013	01/31/2013	Completed
D-00C-02AA	Submit to Ecology & State of Oregon Monthly Summary Report	01/31/2013	01/24/2013	Completed
D-00C-02AB	Submit to Ecology & State of Oregon Monthly Summary Report	02/28/2013	02/25/2013	Completed
D-00C-02AC	Submit to Ecology & State of Oregon Monthly Summary Report	03/31/2013	03/29/2013	Completed
D-00C-02AD	Submit to Ecology & State of Oregon Monthly Summary Report	04/30/2013		On-going
**D-00C-02AE	Submit to Ecology & State of Oregon Monthly Summary Report	05/31/2013		On-going
** Future Monthly Reports will be added as necessary to maintain a two-months ahead activity.				
D-00C-01G	Submit to Ecology & State of Oregon Semi-Annual Report	07/31/2013		On-going
D-006-00-A1	Provide State of Oregon Notice of Meetings	09/25/2013		On-going
Fiscal Year 2014				
D-006-00-A	Meet Approximately Every 3 Years to Review Requirements of CD	10/25/2013		On-going
D-00B-01	Complete Retrieval of Tank Waste from 10 SSTs in WMA-C	09/30/2014		On-going
D-00B-02	Advise Ecology of the 9 SSTs Waste Will be Retrieved by 2022	09/30/2014	08/22/2011	Completed
Fiscal Year 2015				
D-00A-07	LAW Facility construction Substantially Complete	12/31/2014		On-going
D-00A-19	Complete EL. 98' Concrete Floor Slab Placements in PT Facility	12/31/2014		On-going

Reports

D-00C-01 series, Submit to Ecology & State of Oregon Semi-Annual Report, Due: Semi-Annually – January 31st and July 31st of each year. Status: On-going

D-00C-02 series, Submit to Ecology & State of Oregon Monthly Summary Report Documenting Progress During Previous Month, Due: End of Each Month, Status: On-going

SST Retrieval Program

D-00B-01, Complete Retrieval of Tank Wastes from 10 Remaining SSTs in WMA-C, Due: 9/30/2014, Status: On-going

D-00B-01A thru J, Submit Tank Retrieval Complete Certification, Due: TBD

Pursuant to the requirement in Section IV-B-5 of the Consent Decree (CD), DOE must submit to Ecology a written certification that DOE has completed retrieval of a tank in accordance with the requirements of Appendix "C", Part 1, of the CD. Completed for SST C-104 on March 21, 2013 via ORP letter, 13-TF-0018.

D-00B-02, Advise Ecology of the 9 SSTs from which Waste Will Be Retrieved by 2022, Due: 9/30/2014, Status: Completed on 08/24/2011.

D-00B-03, Initiate Startup of Retrieval in At Least 5 of 9 SSTs in D-00B-02, Due: 12/31/2017, Status: On-going

D-00B-04, Complete Retrieval of Tank Wastes from the 9 SSTs in D-00B-02, Due: 9/30/2022, Status: On-going

D-00B-04A thru I, Submit Tank Retrieval Complete Certification, Due: TBD

Significant Past Accomplishments:

1. Continued operation of the modified sluicing system in C-101 using ERSS.
2. Completed the testing of the new AN-106 pump.
3. Completed readiness activities for C-107 MARS system.
4. Completed installation of the Fold Track into C-110.
5. Continued with installation of support equipment for C-110 Fold Track and Construction Acceptance Testing.
6. Initiated procurements and installation of equipment for C-112 Hard Heel removal.
7. DOE-ORP formally transmitted the Retrieval Completion Certification Report for tank 241-C-104 to Ecology on March 21, 2013. (See ORP Letter 13-TF-0018)

Significant Planned Activities in the Next Six Months:

1. Complete installation of the MARS-V in C-105.
2. Complete C-107 hard heel retrieval.
3. Submit retrieval certificates of completion for C-108 and C-109 to Ecology.
4. Begin start-up of hard heel retrieval in C-110 using the Fold-Track.
5. Begin start-up of hard heel retrieval in C-112 using caustic dissolution.

Issues:

1. DOE-ORP has delayed dome cut activities using the water/abrasive cutting technique for tank C-105 and has experienced delays to the planned schedule while resolution of an issue through the Differing Professional Opinion process DOE O 442.2 is completed. DOE-ORP and its Contractor are evaluating the schedule impacts and possible mitigation actions for alternative cutting techniques.

2. DOE-ORP and its Contractor are reviewing whether the amount of sludge being stored in the tanks causes additional hazards due to gas generation and the potential that gas could be released within the headspace of the tank safely. While this issue is under review, controls have been put in place to limit the amount of sludge being added to the DSTs during C Farm retrieval.
3. DOE-ORP and its Contractor are reviewing the impacts of sequestration on retrieval and Consent Decree Milestone B-1.

Tank Waste Retrieval Work Plan (TWRWP) Status

Tank	TWRWP	Expected Revisions	Retrieval Technology	Second Technology	Third Technology
C-101	RPP-22520, Rev. 7	Complete	MRS (per 10/7/10 agreement, to be Modified Sluicing)	High-Pressure Water with ERSS	-
C-102	RPP-22393, Rev. 6A	In Process	Modified Sluicing	High-Pressure Water with ERSS	-
C-104	RPP-22393, Rev. 6A	Complete	Modified Sluicing	Chemical Dissolution	-
C-105	RPP-22520, Rev. 7	Complete	MARS-V	MARS-High Pressure Water	-
C-107	RPP-22393, Rev. 6A	Complete	MARS-S	MARS-High Pressure Water	-
C-108	RPP-22393, Rev. 6A	Complete	Modified Sluicing	Chemical Dissolution	-
C-109	RPP-21895, Rev. 5	Complete	Modified Sluicing	Chemical Dissolution	-
C-110	RPP-33116, Rev. 2	Complete	Modified Sluicing	Mechanical Waste Conditioning	High Pressure Water
C-111	RPP-37739, Rev. 1	In process	Modified Sluicing	None	-
C-112	RPP-22393, Rev. 6A	In process	Modified Sluicing	Chemical Dissolution	-

Significant Accomplishments

None.

Significant Planned Activities in the Next 6 Months:

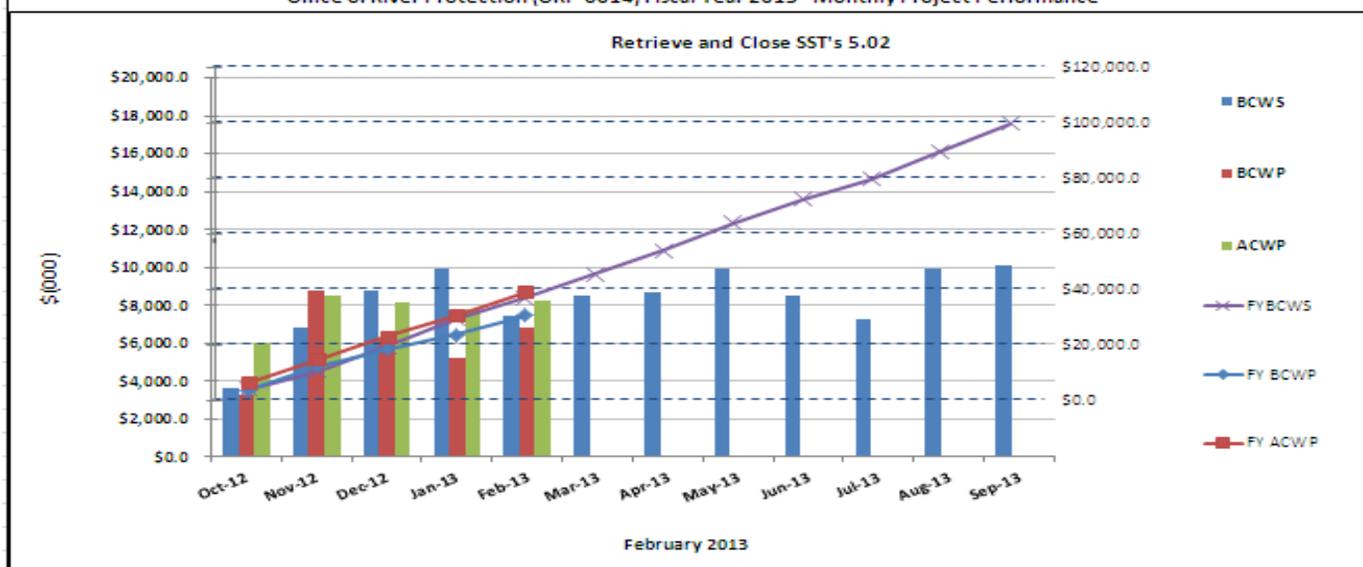
Work with Ecology on updates to TWRWPs RPP-22520 and RPP-37739 for tanks C-105 and C-111.

Issues:

None.

SST Retrieval Monthly and Fiscal Year EVMS Data

Office of River Protection (ORP-0014) Fiscal Year 2013 - Monthly Project Performance



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-12	\$3,620.6	\$3,262.2	\$6,009.2	0.90	0.54	\$3,620.6	\$3,262.2	\$6,009.2	0.90	0.54
Nov-12	\$6,822.3	\$8,789.7	\$8,503.5	1.29	1.03	\$10,442.9	\$12,051.9	\$14,512.7	1.15	0.83
Dec-12	\$8,754.6	\$6,086.6	\$8,117.5	0.70	0.75	\$19,197.5	\$18,138.5	\$22,630.2	0.94	0.80
Jan-13	\$9,897.3	\$5,259.1	\$7,843.5	0.53	0.67	\$29,094.8	\$23,397.6	\$30,473.7	0.80	0.77
Feb-13	\$7,491.3	\$6,807.5	\$8,239.1	0.91	0.83	\$36,586.1	\$30,205.1	\$38,712.8	0.83	0.78
Mar-13	\$8,549.1			0.00		\$45,135.2			0.00	
Apr-13	\$8,677.0			0.00		\$53,812.2			0.00	
May-13	\$9,896.3			0.00		\$63,708.5			0.00	
Jun-13	\$8,470.0			0.00		\$72,178.5			0.00	
Jul-13	\$7,298.8			0.00		\$79,477.3			0.00	
Aug-13	\$9,902.0			0.00		\$89,379.3			0.00	
Sep-13	\$10,128.5			0.00		\$99,507.8			0.00	
CTD	\$376,285.0	\$371,114.2	\$372,708.6	0.99	1.00					

Single-Shell Tanks

Schedule Variance (\$2,441K):

The unfavorable schedule variance is primarily due to:

- C-102 Retrieval delays in starting waste retrieval, as operations had been realigned to start once C-101 bulk retrieval was complete instead of working in parallel as planned.
- C-101 Retrieval had a 3-week delay of retrieval operations to allow for maintenance and testing of the AN Farm exhauster.
- Retrieval technology development experienced fabrication delays of the MARS-V safety instrument system, cross-flow filter system, and temperature monitoring system because of educator plugging issues.
- C-105 Retrieval delays to the large riser cutting method and MARS-V installation.
- C-109 Retrieval delays with installation of the Off-Riser sampling System for post-retrieval sampling analysis. Resources are unavailable until the C-104 post retrieval and AN-101 sampling activities are complete.

Cost Variance (\$1,402K):

The unfavorable cost variance is primarily due to:

- Additional resources required to complete retrieval of C-101
- Additional resources and material required for single-shell tank C-110 retrieval activities
- Additional design and engineering resources needed to resolve comments on C-102 operation procedures and additional training of personnel for readiness verification.
- Increased labor and subcontract support for C-105 installation activities
- Additional subcontract and labor costs associated with resolution of MARS-V issues.

Waste Treatment and Immobilization Plant Project

Number	Title	Due Date	Status
D-00A-06	Complete Methods Validations	12/31/2017	Ongoing* (see issues below)
D-00A-17	Hot Start of Waste Treatment Plant	12/31/2019	Ongoing* (see issues below)
D-00A-01	Achieve Initial Plant Operations for WTP	12/31/2022	Ongoing* (see issues below)

The Waste Treatment and Immobilization Plant (WTP) Project currently employs approximately 2,292 full-time equivalent (FTE) contractor (Bechtel National, Inc. [BNI]) and subcontractor personnel. This includes 561 craft, 469 non-manual and 128 subcontractor FTE personnel working at the WTP construction site (all facilities). As of February 2013, the combined Low-Activity Waste (LAW) Facility, Analytical Laboratory (LAB), and Balance of Facilities (BOF) were 61 percent complete; design and engineering was 76 percent complete; procurement was 83 percent complete; construction was 68 percent complete; and startup and commissioning was 10 percent complete. In September 2012, the Baseline Change Proposal that implemented the LAW, BOF, and LAB (LBL) Replan was incorporated into the project over-target baseline (OTB), resulting in increases/decreases to the LBL facility budgets, which correspondingly increased/decreased the facility/function to-date percent complete values. In October 2012, the Pretreatment (PT) and High-Level Waste (HLW) Facilities 2-year Interim Work Plan was incorporated into the project over-target baseline and the percent completion values for PT and HLW were frozen at the September 2012 rate. The WTP Project continues to progress in accordance with the LBL Replan and PT/HLW 2-year Interim Work Plan.

In February 2013, the cumulative-to-date WTP Project schedule variance was a positive \$3.6M, and the cumulative-to-date WTP Project cost variance was a negative \$45.9M. The recent contribution to the cumulative-to-date schedule variance is due to early deliveries of plant equipment and early completion of construction activities. The major contribution to the cumulative to-date cost variance is the negative cost variance carried over from the LBL replan.

The following is the status of project matters through the end of February:

Significant Past Accomplishments:

- Completed the 8-ft vessel mixing test platform systems calibration and installation of jet pump pairs to support pulse jet mixing control testing in May (PT)
- Completed weld inspections for five installed black cell vessels as part of the weld deficiency extent of condition evaluation (PT)
- Accepted existing plant wash and drain vessel RLD-VSL-08 for use in full-scale testing (HLW)
- Completed placement of the castable refractory in Melter 1 (LAW)
- Completed fire protection sprinkler testing and certification for Switchgear Buildings 87 and 91 (BOF)

Significant Planned Actions in the Next Six Months:

- Complete hydrogen generation rate (HGR) calculations in support of the hydrogen in piping and ancillary vessels (HPAV) technical issue (PT)
- Award contract(s) for prototype design/fabrication of high-efficiency particulate air (HEPA) filters (HLW)

- Complete installation of melter power supplies (LAW)
- Complete installation of Auto Sampling (ASX) system (LAW)
- Complete construction of the Glass Former Storage Facility (BOF)
- Complete construction of WTP Chiller Compressor Plant (BOF)
- Completion of the high purity gas system layup (LAB)

Issues:

* Technical issues relevant to the PT and HLW Facilities include, among others, pulse jet mixers, corrosion/erosion in piping and vessels, hydrogen accumulation, and waste feed issues.

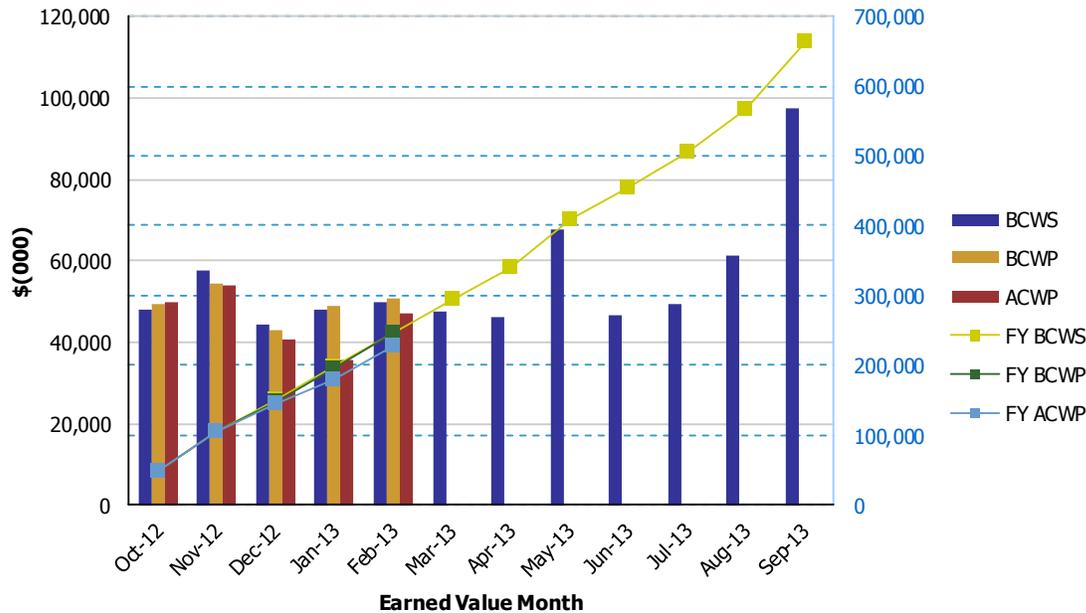
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2013 Earned Value Data

Data as of: February 2013

**River Protection Project
Waste Treatment Plant (WTP) Project**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2012	\$47,840	\$49,300	\$49,742	1.03	0.99	\$47,840	\$49,300	\$49,742	1.03	0.99
Nov 2012	\$57,411	\$54,398	\$53,916	0.95	1.01	\$105,251	\$103,698	\$103,658	0.99	1.00
Dec 2012	\$44,336	\$43,083	\$40,457	0.97	1.06	\$149,587	\$146,781	\$144,115	0.98	1.02
Jan 2013	\$47,780	\$49,037	\$35,389	1.03	1.39	\$197,367	\$195,818	\$179,504	0.99	1.09
Feb 2013	\$49,984	\$50,929	\$47,008	1.02	1.08	\$247,351	\$246,747	\$226,512	1.00	1.09
Mar 2013	\$47,461					\$294,812				
Apr 2013	\$46,122					\$340,934				
May 2013	\$67,705					\$408,639				
Jun 2013	\$46,723					\$455,362				
Jul 2013	\$49,396					\$504,758				
Aug 2013	\$61,319					\$566,077				
Sep 2013	\$97,343					\$663,420				

PTD	\$7,387,961	\$7,391,614	\$7,437,569	1.00	0.99
-----	-------------	-------------	-------------	------	------

PRETREATMENT FACILITY

Number	Title	Due Date	Status
D-00A-19	Complete Elevation 98' Concrete Floor Slab in PT Facility	12/31/2014	Ongoing *
D-00A-13	Complete Installation of Pretreatment Feed Separation Vessels	12/31/2015	Ongoing *
D-00A-14	PT Facility Construction Substantially Complete	12/31/2017	Ongoing *
D-00A-15	Start PT Facility Cold Commissioning	12/31/2018	Ongoing *
D-00A-16	PT Facility Hot Commissioning Complete	12/31/2019	Ongoing *

The Pretreatment (PT) Facility will separate radioactive tank waste into High Level Waste and Low-Activity Waste fractions and transfer each waste type to the respective vitrification facility for immobilization. As of September 2012, the PT Facility was 56 percent complete overall, with engineering design 85 percent complete, procurement 56 percent complete, construction 43 percent complete, and startup and commissioning 3 percent complete. Construction, procurement, and production engineering activities remain on hold, resulting in no change to the percent completion status since September. BNI continues to focus on resolving technical issues, performing hazard analyses, and completing safety evaluations for process systems in accordance with the 2-year Interim Work Plan.

The Design Completion Team continues to evaluate open technical issues to ensure the design changes are required and requirements are finalized. Construction of the mixing test platform continues in preparation for full-scale testing. Engineering specifications for the full-scale testing have been prepared and are undergoing a multi-discipline review, and the national labs are developing a test plan, simulant, and instrumentation requirements. Evaluations are ongoing to determine the existing redundancy in case of failures in the black cells, and available technologies to support in-service inspection are being reviewed.

DOE has asked BNI to perform an impact evaluation for a potential change to the natural phenomenon hazards design criteria that would double the ashfall criteria. This design criteria revision has the potential to impact facility and HVAC system design.

Significant Past Accomplishments:

- Developed a test matrix and initiated vendor selection for erosion testing
- Completed the 8-ft vessel mixing test platform systems calibration and installation of jet pump pairs to support pulse jet mixing control testing in May
- Completed weld inspections for five installed black cell vessels as part of the weld deficiency extent of condition evaluation
- Developed test plan for SC-1 jumper configuration to sustain design basis seismic loading

Significant Planned Actions in the Next Six Months:

- Complete hydrogen generation rate calculations in support of the hydrogen in piping and ancillary vessels (HPAV) technical issue
- Perform independent review of the potential for criticality in vessels
- Review flammable gas generation, retention, and release from sediments in vessels
- Develop decision process for vessel structural modifications
- Develop vessel specific particle characteristics report for erosion/corrosion
- Complete hazard and operability study for the PT Vessel Vent Process System
- Perform testing of pulse jet mixing control strategy using the 8-ft vessel mixing test platform

Issues:

* Technical issues relevant to the PT and HLW Facilities include, among others, pulse jet mixers, corrosion/erosion in piping and vessels, hydrogen accumulation, and waste feed issues.

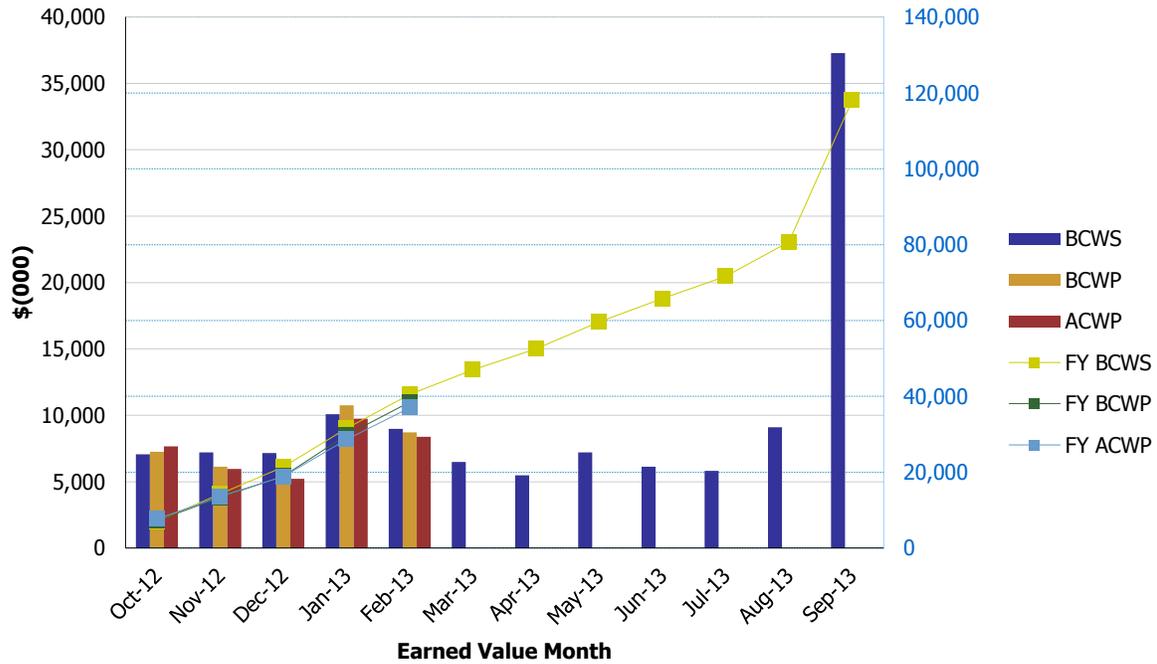
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2013 Earned Value Data

Data as of: February 2013

**River Protection Project
Pretreatment Facility**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2012	\$7,077	\$7,269	\$7,660	1.03	0.95	\$7,077	\$7,269	\$7,660	1.03	0.95
Nov 2012	\$7,200	\$6,130	\$5,974	0.85	1.03	\$14,277	\$13,399	\$13,634	0.94	0.98
Dec 2012	\$7,163	\$5,619	\$5,230	0.78	1.07	\$21,440	\$19,018	\$18,864	0.89	1.01
Jan 2013	\$10,097	\$10,759	\$9,756	1.07	1.10	\$31,537	\$29,777	\$28,620	0.94	1.04
Feb 2013	\$8,994	\$8,716	\$8,382	0.97	1.04	\$40,531	\$38,493	\$37,002	0.95	1.04
Mar 2013	\$6,486					\$47,017				
Apr 2013	\$5,481					\$52,498				
May 2013	\$7,201					\$59,699				
Jun 2013	\$6,128					\$65,827				
Jul 2013	\$5,832					\$71,659				
Aug 2013	\$9,097					\$80,756				
Sep 2013	\$37,287					\$118,043				

PTD	\$1,450,997	\$1,448,960	\$1,447,469	1.00	1.00
-----	-------------	-------------	-------------	------	------

HIGH-LEVEL WASTE FACILITY

Number	Title	Due Date	Status
D-00A-21	Complete Construction of Structural Steel to 37' in HLW Facility	12/31/2012	Complete
D-00A-02	HLW Facility Construction Substantially Complete	12/31/2016	Ongoing *
D-00A-03	Start HLW Facility Cold Commissioning	6/30/2018	Ongoing *
D-00A-04	HLW Facility Hot Commissioning Complete	12/31/2019	Ongoing *

The High Level Waste (HLW) Facility will receive the separated high-level waste concentrate from the PT Facility. This concentrate will be blended with glass formers and converted into molten glass in one of the two HLW melter and then poured into cylindrical stainless steel canisters. After cooling, the canisters will be sealed and decontaminated prior to shipment to interim storage. As of September 2012, the HLW Facility is 62 percent complete overall, with engineering design 89 percent complete, procurement 81 percent complete, construction 43 percent complete, and startup and commissioning 4 percent complete. Construction, procurement, and production engineering activities have significantly slowed down, resulting in minimal change to the percent completion status since September. BNI continues to focus on resolving technical issues, performing hazard analyses, and completing safety evaluations for process systems in accordance with the 2-year Interim Work Plan.

The Design Completion Team continues to evaluate open technical issues to ensure the design changes are required and requirements are finalized. Construction activities include the placement of walls at the 37-ft elevation, installation of structural steel at the 58-ft elevation, and installation of cable tray supports and ventilation ducts at the 14-ft elevation. Engineering efforts are focused on resolution of Priority Level 1 findings and support for the Reliability Validation Process (RVP). Environmental and Nuclear Safety continue to update the Preliminary Documented Safety Analysis (PDSA).

BNI is in the process of initiating a review and analysis of the issues identified in RVP (Wave 1) to develop a path forward for issue resolution. Project issue evaluation reports (PIER) are being developed to track resolution of the issues. BNI has started the second phase of RVP (Wave 2), which includes review of the HLW C5V system.

Significant Past Accomplishments:

- Incorporated the design changes into Chapters 3, 4, and 5 of the PDSA
- Issued a request for proposal to design and test HEPA filters
- Accepted existing plant wash and drain vessel RLD-VSL-08 for use in full-scale testing

Significant Planned Actions in the Next Six Months:

- Award contract(s) for prototype design/fabrication of HEPA filters
- Complete RVP reviews
- Complete review of fabrication of the thermal catalytic oxidizer
- Develop plan to close technical issues and other issues (e.g., safety basis compliance, quality assurance issues, and design defensibility) of HLW in calendar year 2013

Issues:

* Technical issues relevant to the PT and HLW Facilities include, among others, pulse jet mixers, corrosion/erosion in piping and vessels, hydrogen accumulation, and waste feed issues.

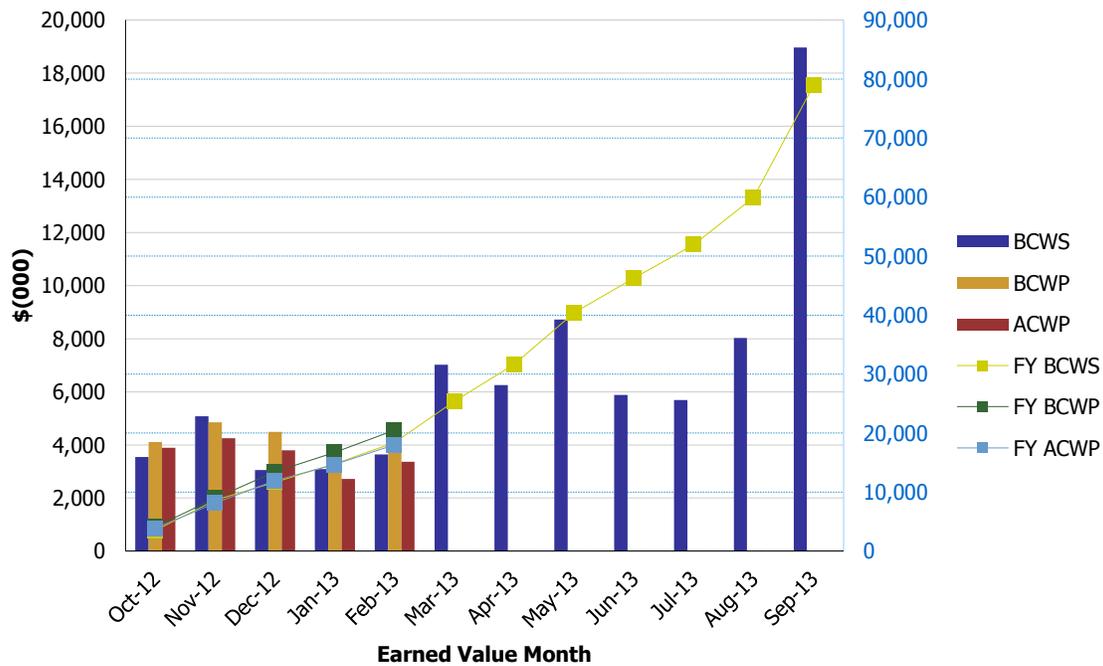
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2013 Earned Value Data

Data as of: February 2013

**River Protection Project
High-Level Waste Facility**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2012	\$3,545	\$4,105	\$3,895	1.16	1.05	\$3,545	\$4,105	\$3,895	1.16	1.05
Nov 2012	\$5,079	\$4,852	\$4,256	0.96	1.14	\$8,624	\$8,957	\$8,151	1.04	1.10
Dec 2012	\$3,054	\$4,496	\$3,795	1.47	1.18	\$11,678	\$13,453	\$11,946	1.15	1.13
Jan 2013	\$3,092	\$3,266	\$2,714	1.06	1.20	\$14,770	\$16,719	\$14,660	1.13	1.14
Feb 2013	\$3,639	\$3,791	\$3,362	1.04	1.13	\$18,409	\$20,510	\$18,022	1.11	1.14
Mar 2013	\$7,017					\$25,426				
Apr 2013	\$6,253					\$31,679				
May 2013	\$8,717					\$40,396				
Jun 2013	\$5,876					\$46,272				
Jul 2013	\$5,685					\$51,957				
Aug 2013	\$8,029					\$59,986				
Sep 2013	\$18,964					\$78,950				

PTD	\$940,542	\$942,640	\$940,154	1.00	1.00
-----	-----------	-----------	-----------	------	------

LOW-ACTIVITY WASTE FACILITY

Number	Title	Due Date	Status
D-00A-07	LAW Facility Construction Substantially Complete	12/31/2014	Ongoing
D-00A-08	Start LAW Facility Cold Commissioning	12/31/2018	Ongoing
D-00A-09	LAW Facility Hot Commissioning Complete	12/31/2019	Ongoing

The Low-Activity Waste (LAW) Facility will vitrify the low activity level waste stream from the Pretreatment Facility at a design capacity of 30 metric tons per day. Waste will be mixed with glass formers, vitrified into glass, and poured from the melter into stainless steel storage containers. After cooling and preparation for transport, the containers are anticipated to be disposed of on the Hanford Site at the Integrated Disposal Facility. As of February 2013, the LAW Facility is 62 percent complete overall, with engineering design 77 percent complete, procurement 85 percent complete, construction 63 percent complete, and startup and commissioning 5 percent complete.

Significant Past Accomplishments:

- Completed placement of the castable refractory in Melter 1
- Installed export bay exhaust fans
- Completion of coaxial pipe on 28-ft elevation
- Received Auto Sampling system power supply on-site

Significant Planned Actions in the Next Six Months:

- Complete installation of melter power supplies
- Complete installation of Auto Sampling system
- Receive HEPA preheaters for LAW Secondary Offgas/Vessel Vent Process System
- Commence refractory brick installation in the melters
- Complete hazard analysis for the melter and container handling systems

Issues:

No major issues at this time

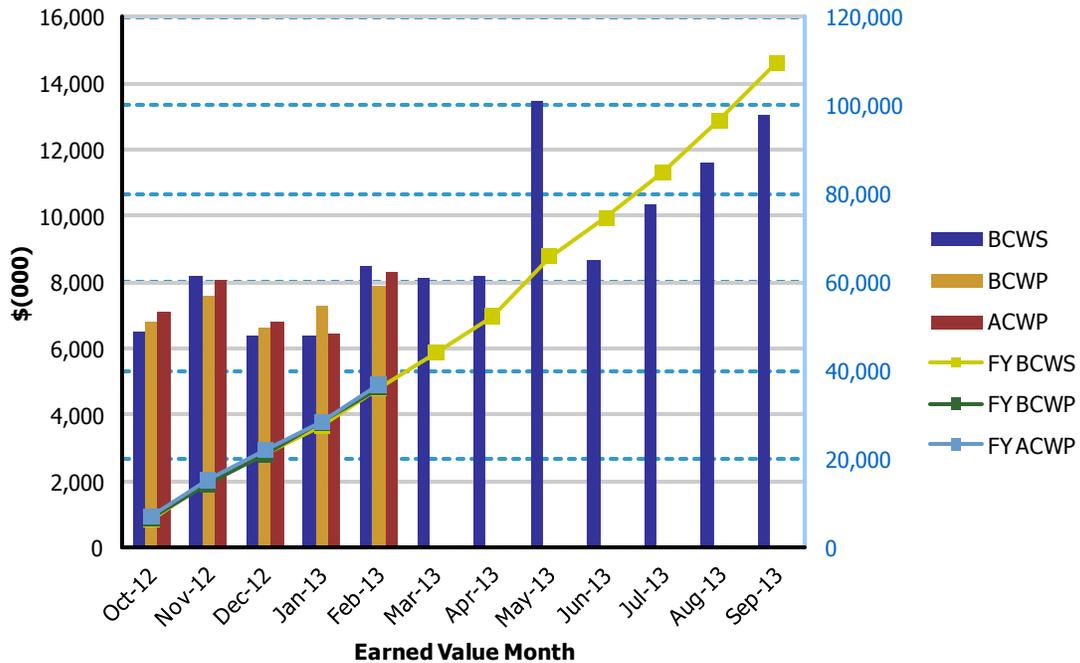
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2013 Earned Value Data

Data as of: February 2013

**River Protection Project
Low-Activity Waste Facility**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2012	\$6,536	\$6,787	\$7,142	1.04	0.95	\$6,536	\$6,787	\$7,142	1.04	0.95
Nov 2012	\$8,212	\$7,602	\$8,071	0.93	0.94	\$14,748	\$14,389	\$15,213	0.98	0.95
Dec 2012	\$6,418	\$6,648	\$6,814	1.04	0.98	\$21,166	\$21,037	\$22,027	0.99	0.96
Jan 2013	\$6,392	\$7,303	\$6,469	1.14	1.13	\$27,558	\$28,340	\$28,496	1.03	0.99
Feb 2013	\$8,503	\$7,873	\$8,338	0.93	0.94	\$36,061	\$36,213	\$36,834	1.00	0.98
Mar 2013	\$8,128					\$44,189				
Apr 2013	\$8,191					\$52,380				
May 2013	\$13,479					\$65,859				
Jun 2013	\$8,654					\$74,513				
Jul 2013	\$10,372					\$84,885				
Aug 2013	\$11,603					\$96,488				
Sep 2013	\$13,058					\$109,546				

PTD	\$729,771	\$733,202	\$785,380	1.00	0.93
-----	-----------	-----------	-----------	------	------

BALANCE OF FACILITIES

Number	Title	Due Date	Status
D-00A-12	Steam Plant Construction Complete	12/31/2012	Complete

The Balance of Facilities (BOF) provides services and utilities to support operation of the main process facilities – PT, HLW, LAW, and LAB. As of February 2013, the BOF is 55 percent complete overall, with engineering design 77 percent complete, procurement 72 percent complete, construction 72 percent complete, and startup and commissioning 10 percent complete. A concern has been raised about the effectiveness of the design for the cathodic protection system. BNI is designing and installing test stations to improve the understanding of the effectiveness of the system.

Significant Past Accomplishments:

- Issued engineering design complete list for the Cooling Tower Facility
- Completed metering and relay testing for Switchgear Building 87
- Turned over Building 91 fire detection system to startup testing
- Completed fire protection sprinkler testing and certification for Switchgear Buildings 87 and 91

Significant Planned Actions in the Next Six Months:

- Complete construction of the WTP Chiller Compressor Plant
- Complete component and functional testing of the low voltage, medium voltage, and fire detection systems in the Switchgear Buildings 87 and 91
- Complete construction of the Glass Former Storage Facility

Issues:

No major issues at this time.

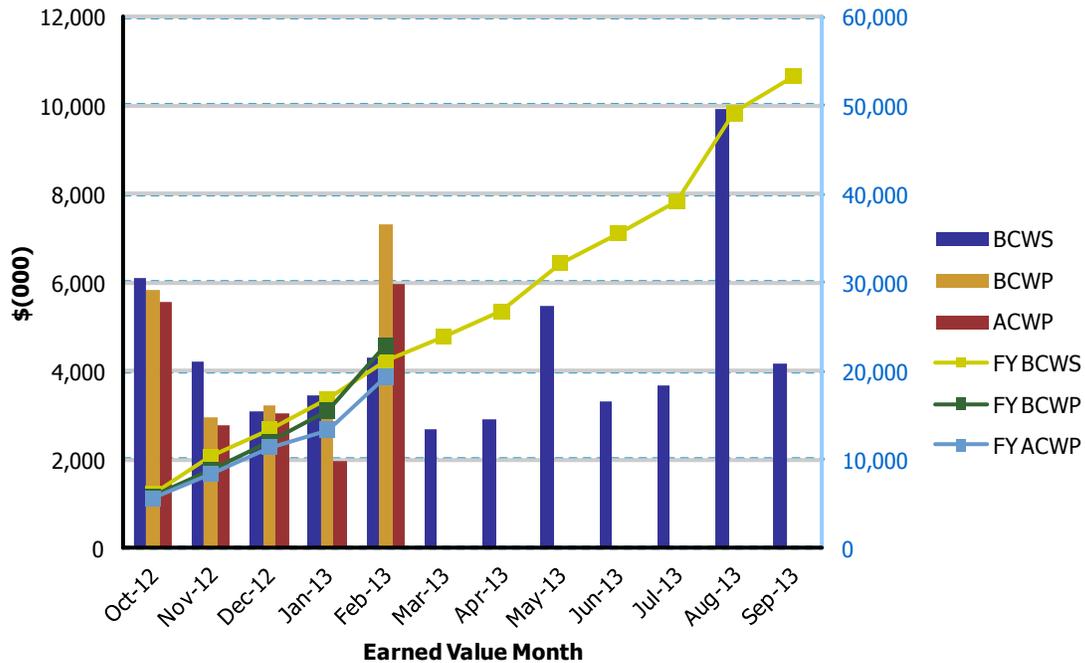
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2013 Earned Value Data

Data as of: February 2013

**River Protection Project
Balance of Facilities**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2012	\$6,106	\$5,820	\$5,580	0.95	1.04	\$6,106	\$5,820	\$5,580	0.95	1.04
Nov 2012	\$4,226	\$2,955	\$2,775	0.70	1.06	\$10,332	\$8,775	\$8,355	0.85	1.05
Dec 2012	\$3,077	\$3,213	\$3,026	1.04	1.06	\$13,409	\$11,988	\$11,381	0.89	1.05
Jan 2013	\$3,452	\$3,559	\$1,970	1.03	1.81	\$16,861	\$15,547	\$13,351	0.92	1.16
Feb 2013	\$4,286	\$7,315	\$5,963	1.71	1.23	\$21,147	\$22,862	\$19,314	1.08	1.18
Mar 2013	\$2,704					\$23,851				
Apr 2013	\$2,894					\$26,745				
May 2013	\$5,490					\$32,235				
Jun 2013	\$3,333					\$35,568				
Jul 2013	\$3,654					\$39,222				
Aug 2013	\$9,926					\$49,148				
Sep 2013	\$4,149					\$53,297				

PTD	\$296,895	\$298,447	\$293,246	1.01	1.02
-----	-----------	-----------	-----------	------	------

ANALYTICAL LABORATORY

Number	Title	Due Date	Status
D-00A-05	LAB Construction Substantially Complete	12/31/2012	Complete

The Analytical Laboratory (LAB) will support WTP operations by analyzing process feed streams, effluent streams, and the final vitrified glass product. As of February 2013, the LAB is 67 percent complete overall, with engineering design 74 percent complete, procurement 85 percent complete, construction 80 percent complete, and startup and commissioning 21 percent complete.

Significant Past Accomplishments:

- Completed functional and purification testing of the high-pressure gas helium system
- Completed computer flooring in the controls and instrumentation room A-117

Significant Planned Actions in the Next Six Months:

- Complete electrical engineering design
- Terminate cable for the HVAC air-handling units and adjustable speed drives
- Complete and close out the HVAC subcontract
- Complete repairs to RLD vessels

Issues:

No major issues at this time.

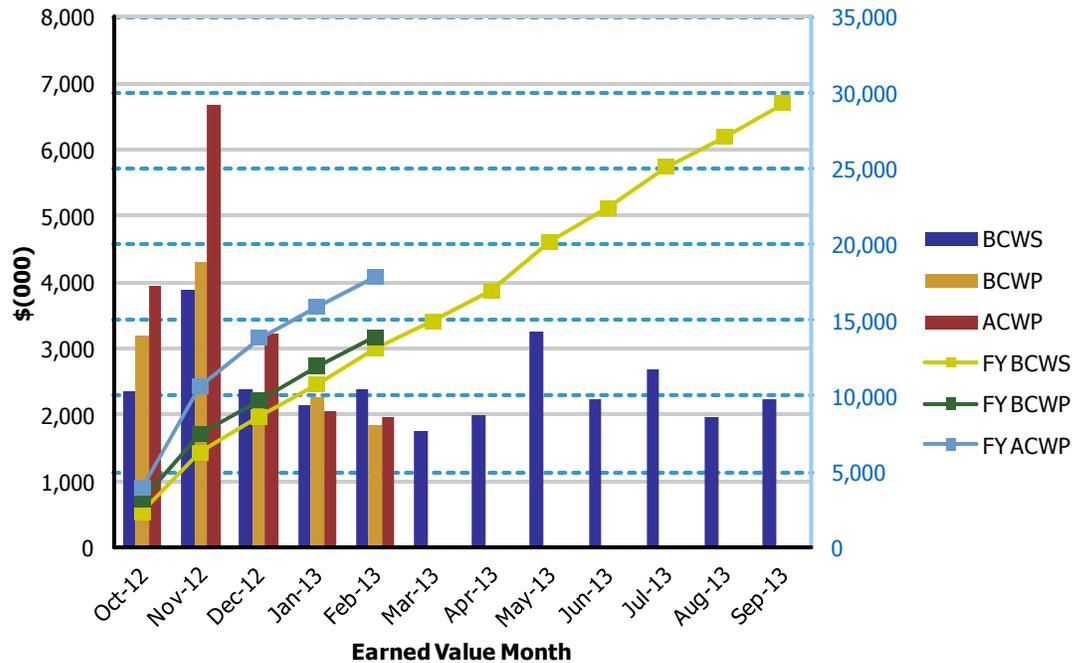
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2013 Earned Value Data

Data as of: February 2013

**River Protection Project
Analytical Laboratory**

EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2012	\$2,370	\$3,183	\$3,952	1.34	0.81	\$2,370	\$3,183	\$3,952	1.34	0.81
Nov 2012	\$3,896	\$4,303	\$6,675	1.10	0.64	\$6,266	\$7,486	\$10,627	1.19	0.70
Dec 2012	\$2,381	\$2,257	\$3,219	0.95	0.70	\$8,647	\$9,743	\$13,846	1.13	0.70
Jan 2013	\$2,137	\$2,270	\$2,052	1.06	1.11	\$10,784	\$12,013	\$15,898	1.11	0.76
Feb 2013	\$2,387	\$1,852	\$1,977	0.78	0.94	\$13,171	\$13,865	\$17,875	1.05	0.78
Mar 2013	\$1,753					\$14,924				
Apr 2013	\$2,012					\$16,936				
May 2013	\$3,246					\$20,182				
Jun 2013	\$2,224					\$22,406				
Jul 2013	\$2,699					\$25,105				
Aug 2013	\$1,975					\$27,080				
Sep 2013	\$2,228					\$29,308				

PTD	\$219,097	\$220,936	\$241,231	1.01	0.92
-----	-----------	-----------	-----------	------	------

Waste Treatment Plant Project - (LBL) Percent Complete Status															
Through February 2013															
(Dollars - Millions)	Overall Facility Percent Complete Unallocated Dollars			Design/Engineering Unallocated Dollars			Procurement Unallocated Dollars			Construction Unallocated Dollars			Startup & Plant Operations Unallocated Dollars		
	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete
Facilities															
Low-Activity Waste	1,176.8	733.2	62%	294.2	225.9	77%	259.2	220.1	85%	445.7	279.0	63%	177.7	8.2	5%
Analytical Lab	327.9	220.9	67%	69.9	51.9	74%	54.5	46.3	85%	134.7	107.9	80%	68.8	14.8	21%
Balance of Facilities	542.2	298.4	55%	91.2	69.8	77%	71.3	51.6	72%	225.0	161.8	72%	154.7	15.3	10%
Total LBL	2,046.9	1,252.6	61%	455.2	347.7	76%	385.0	318.0	83%	805.4	548.7	68%	401.3	38.2	10%
PT/HLW/SS Percent Complete Status Frozen as of September 2012 (due to project rebaselining efforts)															
High-Level Waste	1,478.6	922.1	62%	364.4	325.2	89%	433.9	349.4	81%	561.1	243.2	43%	119.2	4.4	4%
Pretreatment	2,517.3	1,410.5	56%	761.7	645.8	85%	679.9	380.4	56%	890.0	378.6	43%	185.8	5.6	3%
Shared Services	4,726.9	3,632.6	77%	1,047.0	977.9	93%	451.7	395.0	87%	1,436.5	1,143.0	80%	453.5	133.2	29%
Total WTP w/o UB	n/a	n/a	67%	n/a	n/a	87%	n/a	n/a	73%	n/a	n/a	62%	n/a	n/a	15%
Undistributed Budget	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total WTP	n/a	n/a	67%	n/a	n/a	87%	n/a	n/a	73%	n/a	n/a	62%	n/a	n/a	15%

Source: Preliminary WTP Contract Performance Report - Format 1. Data for Feb 2013

Note: In September 2012, the LBL Replan was incorporated into the project OTB baseline resulting in increases/decreases to the LBL facility budgets, which correspondingly increased/decreased the facility/function to-date percent complete values. In October 2012, the PT/HLW/SS Interim Work Plan was incorporated into the project OTB baseline resulting in decreases to the PT/HLW/SS facility budgets, this was due to a work scope shift from the Distributed budget to UB. Percent Complete Values shown for PT, HLW and SS have been frozen with the September 2012 values due to the Interim Work Plan and budgets being moved into UB. UB value for the project for PT/HLW/SS is \$1,983M.