

FINAL

Office of River Protection
Consent Decree 08-5085-FVS

Project Summary Report

August 18, 2011

Office of River Protection

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Project Summary Report

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8:30 a.m. – 11:00 a.m.

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1	Statistics / Status	Woody Russell / Dan McDonald / Jeff Lyon
5	SST Retrieval and Closure - D-00B-01, -02, -03, -04 - TWRWP Status	Chris Kemp / Jeff Lyon
8	WTP - Immobilization Plant Project - D-00A-06, D-00A-17, D-00A-01	Wahed Abdul / Jason Young / Gary Olsen / Dan McDonald
10	WTP Pretreatment (PT) Facility - D-00A-18, -19, -13, -14, -15, 16	Wahed Abdul / Dan McDonald
13	High-Level Waste (HLW) Facility - D-00A-20, -21, 02, 03	Jason Young / Dan McDonald
16	Low-Activity Waste (LAW) Facility - D-00A-07, -08, -09	Gary Olsen / Dan McDonald
19	Analytical Laboratory (LAB) - D-00A-005	
22	Balance of Facilities (BOF) - D-00A-12	

Fiscal Year 2011 Consent Decree Milestone Status

Milestone No.	Description	Due Date	Date Completed	On Schedule	At Risk	Recoverable	To Be Missed	Missed	In Litigation	Deleted	In Program Planning	In Abeyance	Dispute Resolution
D-00A-20	Complete Construction of Structural Steel to Elevation 14' in HLW Facility	12/31/10	01/31/10										
D-00C-01B	Submit to Ecology and Oregon Semi-Annual Report Documenting Progress During Previous 6 Month Period	01/31/11	01/25/11										
D-00C-02D	Submit to Ecology and Oregon Monthly Summary Reports	02/28/11	2/25/11										
D-00C-02E	Submit to Ecology and Oregon Monthly Summary Reports	03/31/11	03/24/11										
D-00C-02F	Submit to Ecology and Oregon Monthly Summary Reports	04/30/11	04/29/11										
D-00C-02G	Submit to Ecology and Oregon Monthly Summary Reports	05/31/11	05/25/11										
D-00C-02H	Submit to Ecology and Oregon Monthly Summary Reports	06/30/11	06/30/11										
D-00C-02I	Submit to Ecology and Oregon Monthly Summary Reports	07/31/11	07/26/11										

Fiscal Year 2011 Consent Decree Milestone Status

Milestone No.	Description	Due Date	Date Completed	On Schedule	At Risk	Recoverable	To Be Missed	Missed	In Litigation	Deleted	In Program Planning	In Abeyance	Dispute Resolution
D-00C-02J	Submit to Ecology and Oregon Monthly Summary Reports	08/31/11		X									
**D-00C-02K	Submit to Ecology and Oregon Monthly Summary Reports	09/31/11		X									
** Future Monthly Reports will be added as necessary to maintain a two-months ahead activity.													
D-00C-01C	Submit to Ecology and Oregon Semi-Annual Report Documenting Progress During Previous 6 Month Period	07/31/11	07/27/11										

Fiscal Year 2012 Consent Decree Milestone Status

Milestone No.	Description	Due Date	Date Completed	On Schedule	At Risk	Recoverable	To Be Missed	Missed	In Litigation	Deleted	In Program Planning	In Abeyance	Dispute Resolution
D-00C-02L	Submit to Ecology and Oregon Monthly Summary Reports	10/31/11		X									
**D-00C-02M	Submit to Ecology and Oregon Monthly Summary Reports	11/30/11		X									
** Future Monthly Reports will be added as necessary to maintain a two-months ahead activity.													
D-00C-01D	Submit to Ecology and Oregon Semi-Annual Report Documenting Progress During Previous 6 Month Period	01/31/12		X									
D-00C-01E	Submit to Ecology and Oregon Semi-Annual Report Documenting Progress During Previous 6 Month Period	07/31/12		X									

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 Schedule

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 Schedule

D-006-00-A1, Provide State of Oregon notice of meetings in D-006-00-A, etc. no less than 30 days before they are scheduled, Due: 9/25/2013, Status: On Schedule

D-006-00-A, Meet Approximately Every Three Years After Entry of Decree to review requirements of the Consent Decree, Due: 10/25/2013, Status: On Schedule

SST Retrieval and Closure Program

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

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

Pursuant to the requirement at 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. Tanks currently in retrieval status are C-108, C-109, C-110, C-104, and C-111.

D-00B-02, Advise Ecology of the 9 SST's from which Waste Will Be Retrieved by 2022,

Due: 9/30/2014, Status: On Schedule. ORP and Ecology began meeting in December 2010 to discuss the selection of the next nine tanks to be retrieved and why ORP believes those nine tanks should be in A/AX Farms. The last meeting was held on June 29, 2011.

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

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

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

Significant Past Accomplishments:

1. Continued the installation of the control room and MARS arm into the C-107 tank.
2. Continued construction activities for C-108 equipment installation for Hard Heel Removal.
3. Continued installation of the POR107 exhauster for use at C-107 during MARS arm operation.
4. Continued design and procurement for C-109 Hard Heel Removal equipment.
5. Completed replacing the AN-106 supernatant pump to support C-108/C-107 retrievals.
6. Continued design activities for C-112 sluicing system.
7. Continued testing of a MARS sluice educator system.

Significant Planned Activities in the Next Six Months:

1. Complete the C-101 design, initiate long lead procurements and initiate legacy equipment removals.
2. Complete construction/installation of MARs at C-107.
3. Initiate Operation Acceptance Testing (OAT) of the C-107 system.
4. Complete startup of C-107 MARS retrieval.
5. Start up of retrieval activities for C-108 hard heel.
6. Complete hard heel retrieval of C-108.
7. Complete C-112 design, initiate long lead procurements and initiate legacy equipment removals.

8. Finish testing of the MARS with the vacuum educator.

Issues:

- D-00B-02, Discussions continue on the issue to advise Ecology of the 9 SST's from which waste will be retrieved by 2022.
- C-106 Closure Plan approval and SST radiological Categorical Notice of Construction (NOC) Phase 3 (closure) and a toxics categorical NOC application are pending completion of the Tank Closure and Waste Management Environmental Impact Statement (EIS) and associated Record of Decision (ROD); forecast completion for the final EIS ROD is in the winter of 2011.

TWRWP Status

Tank	TWRWP	Expected Revisions	Retrieval Technology	Second Technology	Third Technology
C-101	RPP-22520	Projected revision early fall	MRS (per 10/7/10 agreement, to be Modified Sluicing)	-	-
C-102	RPP-22393	In Process	Modified Sluicing	MS-ITV	-
C-103	RPP-21895	Retrieval Completed			
C-104	RPP-22393	In Process	Modified Sluicing	MS-ITV	-
C-105	RPP-22520	Projected revision early fall	MRS	-	-
C-106		Retrieval Completed			
C-107	RPP-22393	In Process	MARS-S		
C-108	RPP-22393	In Process	Modified Sluicing	Chemical Dissolution	MS-ITV
C-109	RPP-21895	Following RPP-22393	Modified Sluicing	MS-ITV	-
C-110	RPP-33116	Following RPP-22393	Modified Sluicing	-	-
C-111	RPP-37739	Following RPP-22393	Modified Sluicing	-	-
C-112	RPP-22393	In Process	Modified Sluicing	MS-ITV	-

Significant Accomplishments:

- ECY and ORP met for a TWRWPs Workshop on Selecting the Second Technology Under the CD on May 6, 2011. Goals included development of a table to identify 1st and 2nd technologies (including rationale for technology selection) and to develop proposed TWRWP language to be submitted with next revision of the TWRWP. The workshop discussions and actions were captured in meeting minutes which have been submitted as a handout in the ORP June 2011 PMM meeting for inclusion in the Administrative Record.

Issues:

- Resolution and approval of TWRWP 2011-2, RPP-22393. Ecology letter 11-NWP-085 disapproved 2011-2, RPP-22393 and provided Review Comment Record for resolution of comments.

Hanford Waste Treatment and Immobilization Plant (WTP) Project

D-00A-06, Complete Methods Validations, Due: 12/31/2017, Status: On Schedule

D-00A-17, Hot Start of Waste Treatment Plant, Due: 12/31/2019, Status: On Schedule

D-00A-01, Achieve Initial Plant Operations for WTP, Due: 12/31/2022, Status: On Schedule

There are about 3,400 FTE equivalent contractor [Bechtel National Inc. (BNI)] and subcontractor personnel working on the WTP Project, including 1,200 craft, 500 non-manual, and about 180 subcontractor personnel FTE equivalents working at the WTP construction site (all facilities). Overall project percent complete through June 2011 is 59%, design and engineering is 82% complete, procurement is 62% complete, construction is 56% complete and Start-Up and Commissioning is 13% complete.

The overall WTP Project Schedule Variance (SV) in June was a positive \$6.0M, the Cost Variance (CV) was a positive \$2.7M. The positive cost variance was due to Plant Equipment and Construction control accounts and the schedule variances came primarily from Plant Equipment and Construction control accounts.

Design/Engineering facility percent complete values went down due to a baseline change proposal to align the specific Engineering functions scope with the respective facility that the work scope supported. This BCP resulted in an increase to the facility engineering budgets, which correspondingly reduced the to-date percent complete values.

Following is the status through the end of July for current project issues:

Significant Past Accomplishments:

- Successfully completed placement of the first black cell piping module.

Significant Planned Actions in the Next Six Months:

- Complete erection of 4th tier structural steel (77ft to 98ft elevation)
- Complete analytical results from the Low Order Accumulation Model (LOAM) validation testing for the non-Newtonian vessel configuration
- Complete Fabrication and Delivery of C5V Dampers
- Complete Siding of HLW Annex
- Complete installation of the LAW and LAB Autosampler systems
- Install hot cell monorail airlocks in the LAB
- Complete construction of the BOF switchgear facility, cooling tower and fuel oil pumphouse

Issues:

No significant issues at this time.

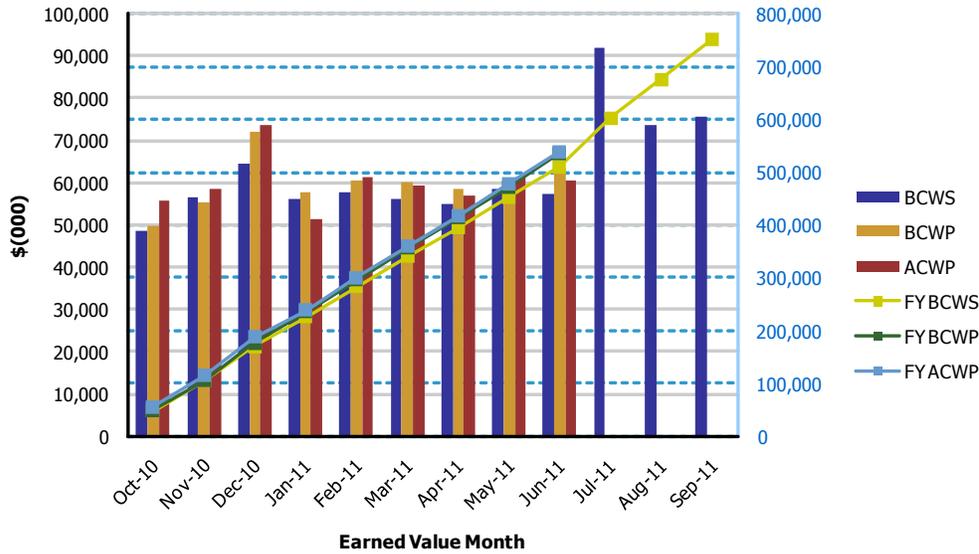
WTP – Fiscal Year To-Date Performance

Data Set: FY 2011 Earned Value Data

Data as of: June 2011

River Protection
01-D-416 - Waste Treatment Plant (WTP) Project

Monthly 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 2010	\$48,550	\$49,962	\$55,880	1.03	0.89	\$48,550	\$49,962	\$55,880	1.03	0.89
Nov 2010	\$56,608	\$55,427	\$58,449	0.98	0.95	\$105,158	\$105,389	\$114,329	1.00	0.92
Dec 2010	\$64,533	\$71,852	\$73,610	1.11	0.98	\$169,691	\$177,241	\$187,939	1.04	0.94
Jan 2011	\$55,988	\$57,756	\$51,327	1.03	1.13	\$225,679	\$234,997	\$239,266	1.04	0.98
Feb 2011	\$57,941	\$60,462	\$61,199	1.04	0.99	\$283,620	\$295,459	\$300,465	1.04	0.98
Mar 2011	\$56,009	\$60,032	\$59,335	1.07	1.01	\$339,629	\$355,491	\$359,800	1.05	0.99
Apr 2011	\$54,890	\$58,438	\$56,937	1.06	1.03	\$394,519	\$413,929	\$416,737	1.05	0.99
May 2011	\$58,530	\$58,722	\$61,263	1.00	0.96	\$453,049	\$472,651	\$478,000	1.04	0.99
Jun 2011	\$57,334	\$63,340	\$60,603	1.10	1.05	\$510,383	\$535,991	\$538,603	1.05	1.00
Jul 2011	\$91,983					\$602,366				
Aug 2011	\$73,717					\$676,083				
Sep 2011	\$75,503					\$751,586				

PTD	\$6,239,410	\$6,271,539	\$6,296,633	1.01	1.00
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Pretreatment (PT) Facility

D-00A-19, Complete Elevation 98' Concrete Floor Slab in PT Facility, Due: 12/31/2014, Status: On Schedule

D-00A-13, Complete Installation of Pretreatment Feed Separation Vessels, Due: 12/31/2015, Status: On Schedule

D-00A-14, PT Facility Construction Substantially Complete, Due: 12/31/2017, Status: On Schedule

D-00A-15, Start PT Facility Cold Commissioning, Due: 12/31/2018, Status: On Schedule

D-00A-16, PT Facility Hot Commissioning Complete, Due: 12/31/2019, Status: On Schedule

The PT Facility will separate radioactive tank waste into High Level Waste (HLW) and Low-Activity Waste (LAW) fractions and transfer each waste type to the respective vitrification facility for immobilization. Through June 2011, overall PT Facility percent complete is 48%, engineering is 77% complete, procurement is 45% complete, and construction is 37% complete.

Significant Past Accomplishments:

In July, overall construction continues to perform well. Rebar and embed installation and fabrication of rebar wall curtains continues to support additional slab and wall placements at the 56ft to 98ft elevations. Construction completions for July include placement of three 5th lift (77ft to 98ft elevation) walls and one 56-ft elevation slab for a total of 894 CY. Accomplished the first placement of a piping module for the PT Facility, by completing the over the wall lift and set of the lower pipe module in the Plant Wash and Disposal System black cell. Completed excavation for the control building and poured mud mats.

On-going work includes fabrication of piping modules, installation of drain piping, service air piping, cable trays and supports, ductwork, conduit, wall liner plates, and sparge tubing in the hot cell, structural steel at the northwest corner of the facility at the 77ft elevation.

Engineering continues to implement changes from the technical issue resolutions into Piping and Instrumentation Design (P&ID) and piping isometric drawings. Instrumentation location drawings were issued for the 56ft elevation, as well as 180 piping isometric drawings, and the framing drawings and supporting calculations for hot cell Planning Area 11. Evaluations of the PVP/PVV system to meet functional requirements during an off-normal condition are ongoing, which requires: revision of the aerosol generation model; performance testing of High Efficiency Mist Eliminator (HEME) and scrubber to function during off-normal conditions; and aerosol testing to determine entrainment factor for the WTP-specific conditions. DOE completed the evaluation and approved BNI's request to weld the vessel heads onto the five Non-Newtonian vessels (UFP-VSL-0002A/B, HLP-VSL-00027A/B, and HLP-VSL-00028).

Completed planning, and initiated Request for Proposal (RFP) for fabrication and testing related to Large Scale Integrated Testing (LSIT). A Material Requisition (MR) was issued to purchase racks for the plant wash, fluidics, and utilities. Twenty four jet pump pairs and two Coriolis density transmitter were released to ship.

Significant Planned Actions in the Next Six Months:

- Completion of Milestones for re-Committed design of the CXP and FRP vessels
- Install hot cell piping PJV header
- Complete nineteen mechanical systems re-committed design packages
- Fabricate and deliver ten hot cell equipment frames
- Complete analytical results from the Low Order Accumulation Model (LOAM) validation testing for the non-Newtonian vessel configuration
- Complete 5th lift wall placements and make initial placements for the Control Building slab, totaling approximately 3,590 CY of concrete
- Complete erection of 4th tier structural steel (77ft to 98ft elevation)
- Award contract for High Efficiency Mist Eliminator (HEME)
- Make first 98ft elevation slab concrete pour by end of 2011
- South tunnel elevation slab placement
- Control building first slab placement

Issues:

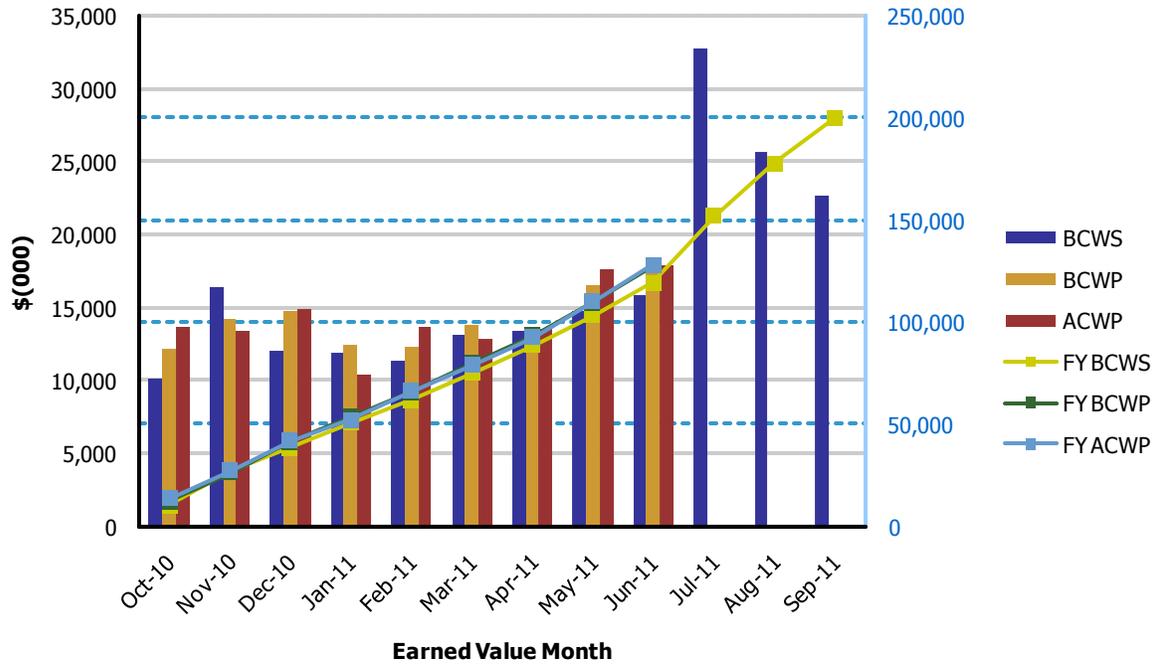
- Vessel Critical Path: Fabrication of vessel HLP-22 continues to be the primary critical path for the PT Facility. The fabrication of the vessel is in progress, but the completion date has slipped from October to December 2012. Construction need date is January 2013. Fabricator is pursuing opportunities to improve the HLP-22 completion date.
- Ecology approval of the permit packages is required to proceed with the vessel alteration for vessels FRP -2A/B/C/D and UFP-62A/B/C in December 2011. These packages are scheduled to begin a public comment period August 22nd.

Data Set: FY 2011 Earned Value Data

Data as of: June 2011

**River Protection
01-D-16E - Pretreatment Facility**

Facility Specific (unallocated) Monthly and Fiscal-Year-to-Date (FY-TD) EVMS Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2010	\$10,196	\$12,179	\$13,730	1.19	0.89	\$10,196	\$12,179	\$13,730	1.19	0.89
Nov 2010	\$16,462	\$14,257	\$13,360	0.87	1.07	\$26,658	\$26,436	\$27,090	0.99	0.98
Dec 2010	\$12,060	\$14,788	\$14,869	1.23	0.99	\$38,718	\$41,224	\$41,959	1.06	0.98
Jan 2011	\$11,902	\$12,449	\$10,403	1.05	1.20	\$50,620	\$53,673	\$52,362	1.06	1.03
Feb 2011	\$11,428	\$12,373	\$13,692	1.08	0.90	\$62,048	\$66,046	\$66,054	1.06	1.00
Mar 2011	\$13,145	\$13,809	\$12,923	1.05	1.07	\$75,193	\$79,855	\$78,977	1.06	1.01
Apr 2011	\$13,444	\$13,497	\$13,533	1.00	1.00	\$88,637	\$93,352	\$92,510	1.05	1.01
May 2011	\$14,789	\$16,506	\$17,668	1.12	0.93	\$103,426	\$109,858	\$110,178	1.06	1.00
Jun 2011	\$15,909	\$17,928	\$17,968	1.13	1.00	\$119,335	\$127,786	\$128,146	1.07	1.00
Jul 2011	\$32,706					\$152,041				
Aug 2011	\$25,646					\$177,687				
Sep 2011	\$22,683					\$200,370				
PTD	\$1,175,527	\$1,192,825	\$1,161,627	1.01	1.03					

High-Level Waste (HLW) Facility

D-00A-21, Complete Construction of Structural Steel to 37' in HLW Facility, Due: 12/31/2012, Status: On Schedule

D-00A-02, HLW Facility Construction Substantially Complete, Due: 12/31/2016, Status: On Schedule

D-00A-03, Start HLW Facility Cold Commissioning, Due: 6/30/2018, Status: On Schedule

D-00A-04, HLW Facility Hot Commissioning Complete, Due: 12/31/2019, Status: On Schedule

The HLW Facility will receive the separated high-level waste from the PT Facility. The concentrate is blended with glass formers and converted into molten glass in one of the two HLW melters and then poured into cylindrical stainless steel canisters. After cooling, the canisters are sealed and decontaminated prior to shipment to interim storage. The HLW Facility is 54% complete overall, with engineering design 85% complete, procurement 67% complete, and construction 35% complete.

Significant Past Accomplishments:

The HLW Filter Cave build-out remains critical path with a majority of the activities being construction and installation. Installation of support steel to the +8ft elevation continues to support the setting of the C5V, HOP, and PJV filter housings. Fabrication of the final pair of filter housings is nearing completion. The first set of C5V dampers from Switzerland has been shipped and fabrication continues on the remaining dampers.

Several concrete pours have taken place during the month of July, including the #1 Melter Cave walls which were some of the most difficult in the building. Siding of the Annex has commenced and roofing activities continue with the parapet walls being formed and the decking being placed working toward the goal of weathering in by the end of the year.

Numerous procurements arrived in the month of August:

- Two 25ton shield plates;
- Canister rinse boggie decon vessel;
- First set C5V dampers;
- HLW Melter assemblies (80%);
- Canister Handling Cave Crane.

Electrical and piping commodities are progressing throughout the -21ft elevation including cooling water, cable trays and supports, and fire protection piping. Permanent lighting installation has progressed through the lower elevations. Vendors are also continuing with special coatings, HVAC, and liner plate.

Significant Planned Actions in the Next Six Months:

- Complete fabrication and delivery of C5V dampers
- Complete siding of HLW Annex
- C5V housing and remote-operated damper installations
- Receive major components of Melters #1 and #2

- Receive RLD-VSL-8

Issues:

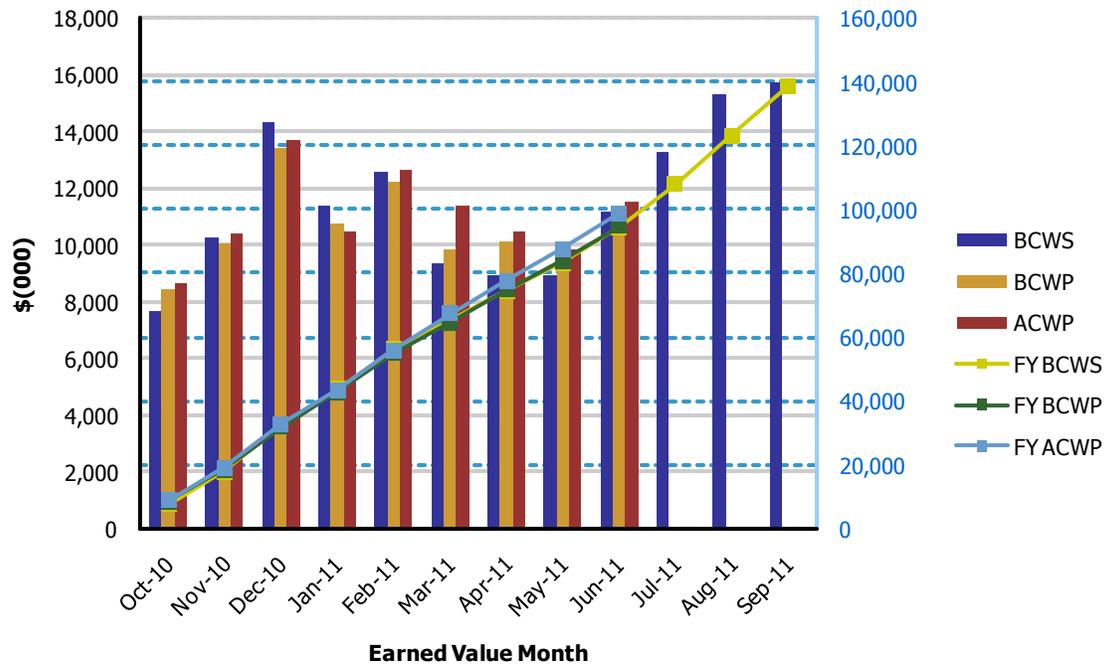
No significant issues at this time.

Data Set: FY 2011 Earned Value Data

Data as of: June 2011

**River Protection
01-D-16D - High-Level Waste Facility**

Facility Specific (unallocated) Monthly and Fiscal-Year-to-Date (FY-TD) EVMS Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2010	\$7,653	\$8,413	\$8,615	1.10	0.98	\$7,653	\$8,413	\$8,615	1.10	0.98
Nov 2010	\$10,239	\$10,032	\$10,434	0.98	0.96	\$17,892	\$18,445	\$19,049	1.03	0.97
Dec 2010	\$14,364	\$13,384	\$13,697	0.93	0.98	\$32,256	\$31,829	\$32,746	0.99	0.97
Jan 2011	\$11,360	\$10,767	\$10,461	0.95	1.03	\$43,616	\$42,596	\$43,207	0.98	0.99
Feb 2011	\$12,550	\$12,224	\$12,651	0.97	0.97	\$56,166	\$54,820	\$55,858	0.98	0.98
Mar 2011	\$9,376	\$9,860	\$11,369	1.05	0.87	\$65,542	\$64,680	\$67,227	0.99	0.96
Apr 2011	\$8,930	\$10,154	\$10,445	1.14	0.97	\$74,472	\$74,834	\$77,672	1.00	0.96
May 2011	\$8,919	\$9,075	\$9,806	1.02	0.93	\$83,391	\$83,909	\$87,478	1.01	0.96
Jun 2011	\$11,189	\$10,734	\$11,504	0.96	0.93	\$94,580	\$94,643	\$98,982	1.00	0.96
Jul 2011	\$13,285					\$107,865				
Aug 2011	\$15,296					\$123,161				
Sep 2011	\$15,743					\$138,904				
PTD	\$789,208	\$793,868	\$788,109	1.01	1.01					

Low-Activity Waste (LAW) Facility

D-00A-07, LAW Facility Construction Substantially Complete, Due: 12/31/2014, Status: On Schedule

D-00A-08, Start LAW Facility Cold Commissioning, Due: 12/31/2018, Status: On Schedule

D-00A-09, LAW Facility Hot Commissioning Complete, Due: 12/31/2019, Status: On Schedule

The LAW Facility will vitrify low-activity waste from the PT Facility. Waste will be mixed with glass formers, vitrified into glass at an average daily rate of 30 metric tons, and placed in stainless-steel canisters that will be disposed on site in the Integrated Disposal Facility. Overall facility percent complete is 65%, engineering is 88% complete, procurement is 84% complete, and construction is 63% complete.

Significant Past Accomplishments:

LAW secondary offgas treatment system component procurement activities continued. Vendor activities are progressing as scheduled for all offgas system components. Other procurement activities included issuance of a material requisition to purchase expansion joints for the LAW offgas system and progress toward procurement of LAW Controls and Instrumentation (C&I) and related equipment.

A drawing was issued for miscellaneous equipment anchorage, which releases the High-Efficiency Particulate Air (HEPA) filter housing for anchorage. Piping isometric drawings were issued for the Low-Pressure Steam (LPS), Steam Condensate Water (SCW), and LAW melter process (LMP) systems. Piping and Instrumentation Diagrams (P&IDs) were issued for the Instrument Service Air (ISA) system. Confirmed calculations were issued for the *Liquid CO₂ Storage Vessel & Miscellaneous Equipment/Non-Building Structure Foundation Design* and for the *Girts and Sagrods Design for LAW Main Building*. Component Information System (CIS) lists for equipment, in-line components, valves, and pipelines were issued for the ISA system and for in-line components for the Breathing Service Air (BSA) system. A system description was issued for the LAW ventilation systems. Control logic diagrams for the drain valves in the LAW secondary offgas/vessel vent process (LVP) system and for the LMP system were issued to support software development and testing.

BNI completed the Thermite welding and setting of both sets of finishing line bogie rails, as well as installation of the lidding equipment in the north line for the container finishing handling (LFH) system. Construction continued with installation of the buffer storage area shield plates, the fire alarm system, Low-Voltage Electrical (LVE) system equipment, Medium-Voltage Electrical (MVE) equipment, humidifiers for the C2V ventilation system, liner in the pour caves, and container finishing line hoists, hatches, and lidding equipment. Other normal activities continued, including installation of piping for the MVE and Plant Cooling Water (PCW) systems within the LAW, as well as installation of cable tray, pipe and pipe hangers, transformers, electrical grounding, conduit and wiring, instrument enclosures, lighting fixtures, partition walls, and coatings.

Integrated Control Network (ICN) development continued with the review of software for the LAW Demineralized Water (DIW) system, Container Receipt Handling (LRH) system, Radioactive Liquid Waste Disposal (RLD) system, and LAW melter Equipment Support Handling (LSH) system. Software related to the following systems was accepted: LVP system, primary offgas process (LOP) system, and the LAW DIW system.

Significant Planned Actions in the Next Six Months:

- Complete vendor fabrication of the Carbon Bed Adsorber (CBA)
- Award Annex Architectural Specialties Subcontract
- Install Inert Fill Drop Line
- Install Melter Power Supplies
- Complete installation of the Autosampling (ASX) system

Issues:

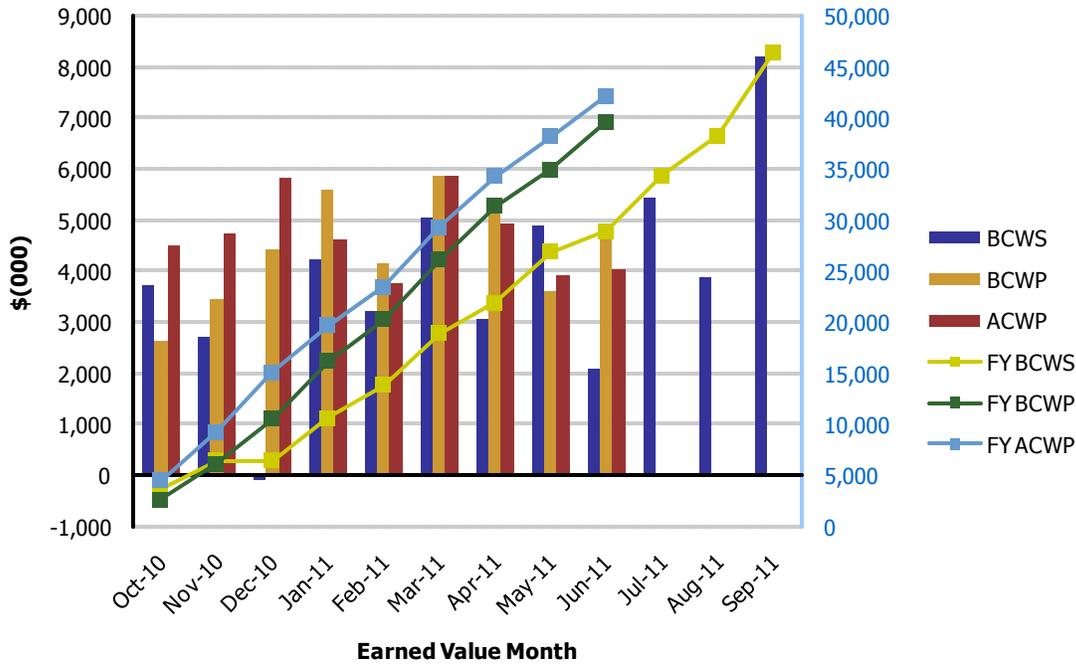
No major issues at this time.

Data Set: FY 2011 Earned Value Data

Data as of: June 2011

River Protection
01-D-16A - Low-Activity Waste Facility

Facility Specific (unallocated) Monthly and Fiscal-Year-to-Date (FY-TD) EVMS Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2010	\$3,743	\$2,654	\$4,511	0.71	0.59	\$3,743	\$2,654	\$4,511	0.71	0.59
Nov 2010	\$2,732	\$3,462	\$4,752	1.27	0.73	\$6,475	\$6,116	\$9,263	0.94	0.66
Dec 2010	(\$84)	\$4,424	\$5,823	-52.67	0.76	\$6,391	\$10,540	\$15,086	1.65	0.70
Jan 2011	\$4,232	\$5,597	\$4,606	1.32	1.22	\$10,623	\$16,137	\$19,692	1.52	0.82
Feb 2011	\$3,222	\$4,153	\$3,778	1.29	1.10	\$13,845	\$20,290	\$23,470	1.47	0.86
Mar 2011	\$5,054	\$5,862	\$5,857	1.16	1.00	\$18,899	\$26,152	\$29,327	1.38	0.89
Apr 2011	\$3,062	\$5,210	\$4,930	1.70	1.06	\$21,961	\$31,362	\$34,257	1.43	0.92
May 2011	\$4,895	\$3,600	\$3,919	0.74	0.92	\$26,856	\$34,962	\$38,176	1.30	0.92
Jun 2011	\$2,089	\$4,713	\$4,057	2.26	1.16	\$28,945	\$39,675	\$42,233	1.37	0.94
Jul 2011	\$5,443					\$34,388				
Aug 2011	\$3,895					\$38,283				
Sep 2011	\$8,214					\$46,497				
PTD	\$617,549	\$620,613	\$665,328	1.00	0.93					

Analytical Laboratory

D-00A-05, LAB Construction Substantially Complete, Due: 12/31/2012, Status: On Schedule

The LAB will support WTP operations by analyzing feed, vitrified waste, and effluent streams. Overall facility complete for LAB is 46%, engineering is 77% complete, procurement is 74% complete, and construction is 63% complete.

Significant Past Accomplishments:

On-going construction work includes installation of piping for the Low Pressure Steam (LPS), High Pressure Steam (HPS), and Steam Condensate Water (SCW) system interfaces with BOF. Drop piping for LPS, chill water, SCW systems, and scheduled/unscheduled electrical raceway was installed in the radiological lab area. Domestic water piping was installed in multiple areas. Installation of instrumentation, schedule/unscheduled electrical raceway, bulk piping/hangers, and structural steel for the fireproof slab in the C5 fan room. HEPA filters are being installed on the top of the hot cell. In the exterior hot cell, the installation of bulk piping/hangers, electrical equipment, and scheduled/unscheduled conduit continued. In the interior hot cell, the installation of the trolley covers/motor assemblies and north gamma probes continued.

Engineering issued single line diagrams for the LVE system, equipment anchorage drawings for the electrical rooms A-0111 and A-0111A, a configuration data index for the stack discharge monitoring system, two instrument data sheets for pressure transmitters, architectural room finishing schedule, piping isometric drawings for plant service air, LPS, HPS, SCW, RLD, and the ASX. Drawings were issued for enlarged floor plan architectural drawings at elevation 0', building sections, wall sections, and interior elevations. Six instrument racks and three two-way valves were released to ship. Sequential function charts were issued for the Laboratory in-cell Handling (LIH) system's hot cell trolley east/west line movement sequence. Configuration data indices were issued for the C1V, LIH, environmental monitoring, bottled argon gas, bottled nitrogen gas, and bottled helium gas. Data sheets were issued for foundation field bus actuated on/off valves for the RLD system and foundation field bus resistance temperature detector transmitters for the LPS system.

Procurement issued material requisitions for quote on steam/air traps, and for purchase of mass-flow controller, static mixers, and blenders.

The operations staff provided comments on the draft Facility Description for the LAB, provided a presentation on the basic operations of the ASX System, reviewed the draft design for the high purity gas system, system operation to prevent the potential for a siphon or back flush from the C3/C5 sump, and provided references for projected radiological inventory and maximum number of samples allowed in the hot cells in the LAB.

Significant Planned Actions in the Next Six Months:

- Install Drum Packing Fume Hood
- Install waste drum bogie transfer port
- Install Autosampler HEPA filter housings frames
- Install hot cell monorail airlocks
- Complete installation of Autosampler System
- Install hot cell monorail recovery hoists

- Install fireproofing slab in C5 fan room

Issues:

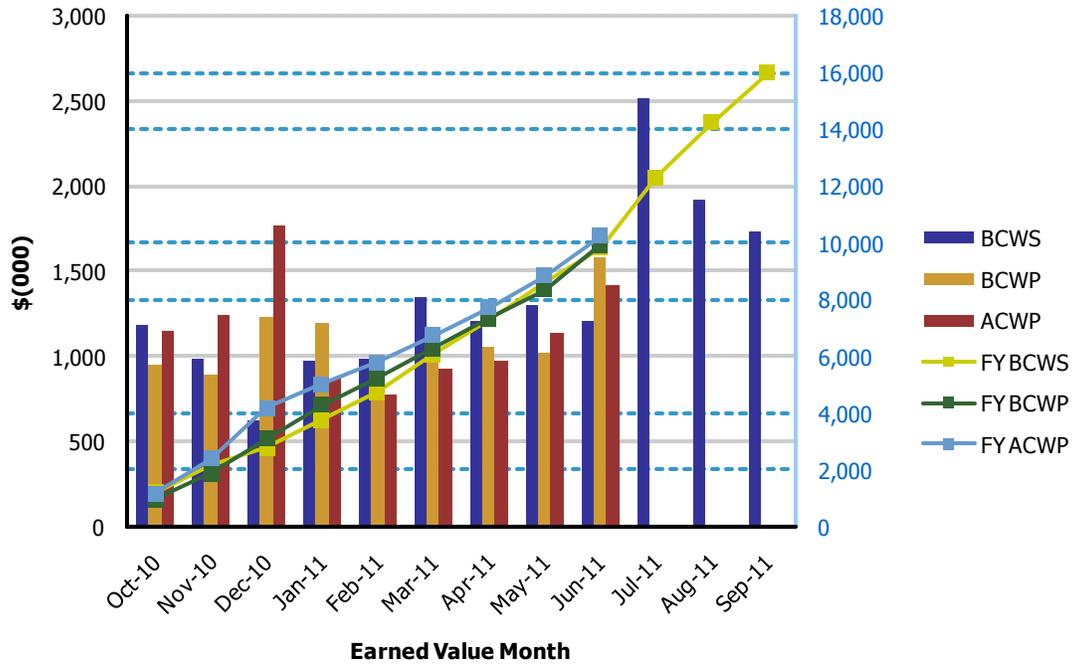
No major issues.

Data Set: FY 2011 Earned Value Data

Data as of: June 2011

**River Protection
01-D-16B - Analytical Laboratory**

Facility Specific (unallocated) Monthly and Fiscal-Year-to-Date (FY-TD) EVMS Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2010	\$1,180	\$954	\$1,152	0.81	0.83	\$1,180	\$954	\$1,152	0.81	0.83
Nov 2010	\$984	\$893	\$1,245	0.91	0.72	\$2,164	\$1,847	\$2,397	0.85	0.77
Dec 2010	\$621	\$1,236	\$1,768	1.99	0.70	\$2,785	\$3,083	\$4,165	1.11	0.74
Jan 2011	\$971	\$1,198	\$869	1.23	1.38	\$3,756	\$4,281	\$5,034	1.14	0.85
Feb 2011	\$982	\$949	\$770	0.97	1.23	\$4,738	\$5,230	\$5,804	1.10	0.90
Mar 2011	\$1,350	\$1,039	\$924	0.77	1.12	\$6,088	\$6,269	\$6,728	1.03	0.93
Apr 2011	\$1,210	\$1,059	\$974	0.88	1.09	\$7,298	\$7,328	\$7,702	1.00	0.95
May 2011	\$1,299	\$1,018	\$1,133	0.78	0.90	\$8,597	\$8,346	\$8,835	0.97	0.94
Jun 2011	\$1,213	\$1,579	\$1,413	1.30	1.12	\$9,810	\$9,925	\$10,248	1.01	0.97
Jul 2011	\$2,516					\$12,326				
Aug 2011	\$1,925					\$14,251				
Sep 2011	\$1,735					\$15,986				
PTD	\$163,086	\$162,313	\$174,926	1.00	0.93					

Balance of Facilities (BOF)

D-00A-12, Steam Plant Construction Complete, Due: 12/31/2012, Status: On Schedule

BOF provides services and utilities to support operation of the main production facilities – PT, HLW, LAW, and LAB. Overall facility percent complete for BOF is 47%, engineering is 72% complete, procurement is 46% complete, and construction is 61% complete.

Significant Past Accomplishments:

On-going construction work includes installation of Plant Service Air (PSA) system piping, transport piping/supports, scheduled conduit, cable tray, and form work for the controls and instrumentation duct bank at the Glass Former Storage Facility (GFSF). Piping was installed for the domestic water, fire service water, and non-radioactive liquid waste system in the Anhydrous Ammonia Storage Facility (AASF). Installation of cable terminations, scheduled conduit and cable in the main switchgear building, eyewash station water heater and expansion tank, plant service air spools in the LAB, booster pump for the LAB's chilled water system, and pressure safety valves in the chiller compressor plant continued. Concrete was placed for the 480-volt duct bank at the AASF building. Excavation began to connect domestic water to the water treatment facility and for the PT control building. The fire alarm/detection equipment has been installed in the T-52 warehouse.

Engineering issued instrument data sheets for two differential pressure gauges, two radar level transmitters/switches, and two displacer transmitter or controllers for the Ammonia Reagent (AMR) system. The technical evaluation of the Emergency Turbine Generator (ETG) was completed to support the award of the contract. C&I process and mechanical handling conduit layout plans for the AASF were issued, as well as C&I raceway plans for miscellaneous tanks and for the lower level of the GFSF. Piping isometric drawings were issued for the AMR system, and for the plant chill water system. Single line drawings for the medium voltage electrical system were issued.

Procurement received 27 linear feet of pipe, and issued the material requisition for the AMR system storage vessels.

The operations staff participated in a load energization timing evaluation in relation to the transition to an ETG. Operations staff continued work with engineering on component insulation design and requirements, which included a walk down of the steam plant to evaluate design and maintainability of the removable insulation pads.

Significant Planned Actions in the Next Six Months:

- Complete construction of cooling tower
- Complete construction of fuel oil pumphouse
- Complete construction of BOF switchgear building
- Install structural steel for anhydrous ammonia facility

Issues:

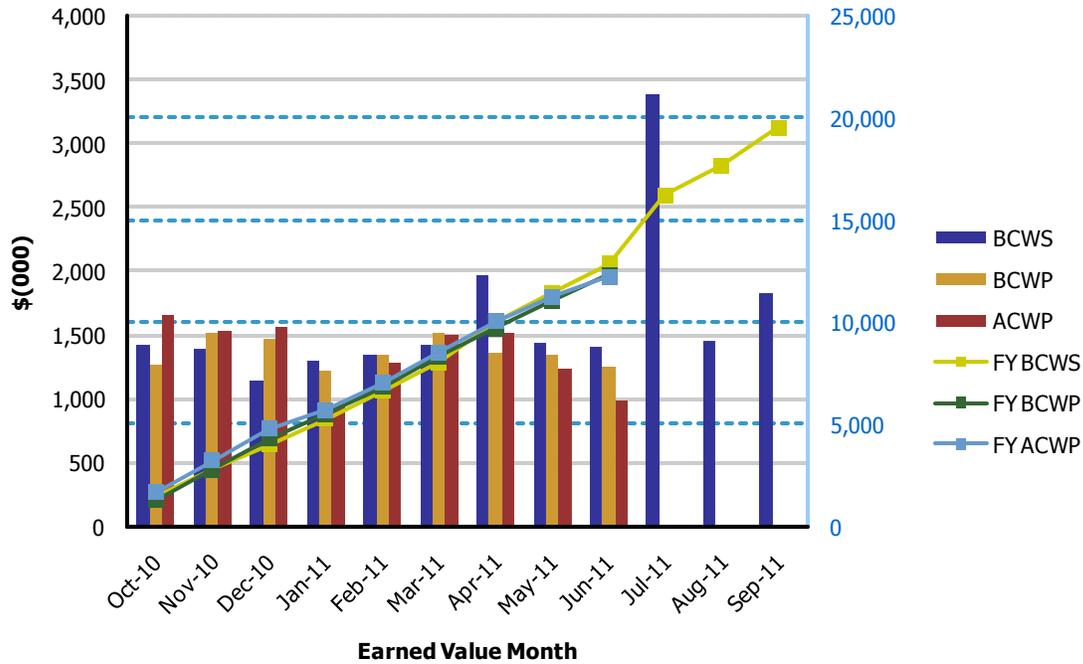
No major issues

Data Set: FY 2011 Earned Value Data

Data as of: June 2011

**River Protection
01-D-16C - Balance of Facilities**

Facility Specific (unallocated) Monthly and Fiscal-Year-to-Date (FY-TD) EVMS Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2010	\$1,428	\$1,272	\$1,660	0.89	0.77	\$1,428	\$1,272	\$1,660	0.89	0.77
Nov 2010	\$1,398	\$1,520	\$1,539	1.09	0.99	\$2,826	\$2,792	\$3,199	0.99	0.87
Dec 2010	\$1,150	\$1,475	\$1,558	1.28	0.95	\$3,976	\$4,267	\$4,757	1.07	0.90
Jan 2011	\$1,302	\$1,224	\$960	0.94	1.28	\$5,278	\$5,491	\$5,717	1.04	0.96
Feb 2011	\$1,347	\$1,346	\$1,288	1.00	1.05	\$6,625	\$6,837	\$7,005	1.03	0.98
Mar 2011	\$1,429	\$1,518	\$1,505	1.06	1.01	\$8,054	\$8,355	\$8,510	1.04	0.98
Apr 2011	\$1,962	\$1,363	\$1,524	0.69	0.89	\$10,016	\$9,718	\$10,034	0.97	0.97
May 2011	\$1,442	\$1,352	\$1,237	0.94	1.09	\$11,458	\$11,070	\$11,271	0.97	0.98
Jun 2011	\$1,400	\$1,253	\$980	0.90	1.28	\$12,858	\$12,323	\$12,251	0.96	1.01
Jul 2011	\$3,383					\$16,241				
Aug 2011	\$1,462					\$17,703				
Sep 2011	\$1,830					\$19,533				
PTD	\$248,126	\$246,689	\$244,166	0.99	1.01					

Waste Treatment Plant Project - Percent Complete Status															
Through June 2011															
(Dollars - Millions)	Overall Facility Percent Complete Unallocated Dollars			Design/Engineering Unallocated Dollars			Procurement Unallocated Dollars			Construction Unallocated Dollars			Startup & Commissioning 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
Low-Activity Waste	952.8	620.6	65%	229.8	201.3	88%	234.9	197.1	84%	340.0	215.9	64%	148.1	6.3	4%
Analytical Lab	350.7	162.3	46%	54.8	42.5	78%	56.1	41.7	74%	104.6	66.3	63%	135.2	11.9	9%
Balance of Facilities	529.7	246.7	47%	84.4	60.5	72%	81.2	37.5	46%	227.9	139.6	61%	136.1	9.1	7%
High-Level Waste	1,471.4	793.9	54%	341.8	291.0	85%	454.8	305.1	67%	557.1	193.5	35%	117.8	4.3	4%
Pretreatment	2,493.6	1,192.8	48%	696.8	538.7	77%	715.4	319.5	45%	898.9	328.8	37%	182.6	5.9	3%
Shared Services	4,747.0	3,255.2	69%	1,051.3	886.4	84%	467.7	354.6	76%	1,423.0	1,027.6	72%	455.8	112.8	25%
Total WTP w/o UB	10,545.2	6,271.5	59%	2,458.9	2,020.4	82%	2,010.1	1,255.5	62%	3,551.5	1,971.7	56%	1,175.6	150.3	13%
Undistributed Budget	0.0	n/a	n/a	n/a	n/a	n/a									
Total WTP	10,545.2	6,271.5	59%	2,458.9	2,020.4	82%	2,010.1	1,255.5	62%	3,551.5	1,971.7	56%	1,175.6	150.3	13%

Source: WTP Contract Performance Report - Format 1, Data for June 2011

Note: Starting with the June 2009 report, facility Construction percent complete values decreased significantly, and a couple of Design/Engineering facility percent complete values went down as well. The decrease in values was tied to Phase I of BNI's elimination of WBS 1.08, Plant Wide EPCC; scope from WBS 1.08 was moved to facilities as appropriate or to WBS 1.90, Shared Services. This resulted in an increase in the facility construction budgets, which has correspondingly reduced the to-date percent complete values. In July 2010 the allocation of 1.90 to the facilities was removed to show true facility percent complete.

¹ Note: EVMS data is through June 2011.