FINAL

Office of River Protection

Tri-Party Agreement Monthly Summary Report May 2013

Tri-Party Agreement

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Office of River Protection
Tri-Party Agreement Milestone Review
May 2013 (Project EVMS reflects March 2013 information)

Page	Topic	Leads
1	Administrative Items / Milestone Status	James Lynch / Dan McDonald / Jeff Lyon
2	System Plan; M-62-40	Dabrisha Smith / Jeff Lyon / Dan McDonald
3	Acquisition of New Facilities; M-90-00; M-47-00	Janet Diediker / Jeff Lyon / Dan McDonald
4	Supplemental Treatment and Part B Permit Applications; M-62-00, -20, -30, -45	Steve Pfaff / Jeff Lyon / Dan McDonald
5	242-A Evaporator Status	Ron Koll / Jeff Lyon
6	SST Integrity Assurance; M-45-91	Jeremy Johnson/ Michelle Hendrickson
7	In Tank Characterization and Summary	Billie Mauss / Michael Barnes
9	Tank Operations Contract (TOC) Overview	Kathy Higgins / Jeff Lyon
14	Single-Shell Tank Corrective Action; M-45, -50, -60	Chris Kemp / Jeff Lyon
15	Single-Shell Retrieval and Closure Program TPA Milestones Status; M-45-00 series	Chris Kemp / Jeff Lyon
17	Tank Waste Retrieval Work Plan Status	Chris Kemp / Jeff Lyon
17	Tank in TPA Appendix H Status Tank Retrievals with Individual Milestones	Chris Kemp / Jeff Lyon
18	WTP Overall TPA Summary and Milestone Status; M-62-01	Delmar Noyes / Dan McDonald

Milestone	Title	Due Date	Completion Date	Status
Fiscal Year 2013				
M-045-20	Submit Interim Measures Investigation Work Plan and TPA Chg Pckgs for M-045-22 Target Dates	12/31/2012	12/06/2012	Completed
M-090-11	Comp. Neg's No More Than 2 Canister Storage Fac. Const. Int. M/S	12/31/2012	11/19/2012	Completed
M-062-01Z	Submit Semi-Annual Project Compliance Report	1/31/2013	1/31/2013	Completed
M-045-91F-T01	Provide Report of the Liquid Leak Rate Assessments	1/31/2013		Missed
M-045-21	Submit Sampling and Analysis Plan for 241-TX Tank Farm	3/31/2013	3/11/2013	Completed
M-045-91D-T01	Provide Report on the Concrete Dome Samples from Tank C-107 Plug	5/31/2013		On Schedule
M-045-91F-T03	Provide Report on Testing for Ionic Conductivity of SSTs	5/31/2013	5/02/2012	Completed
M-045-91F-T02	Provide Report of Liner Failures for SSTs	7/31/2013		To Be Missed
M-062-01AA	Submit Semi-Annual TPA Project Compliance Report	7/31/2013		On Schedule
M-045-91F-T04	Provide Report on 100-Series SSTs as having Leaked in RPP-32681	7/31/2013		To Be Missed
M-045-91E	Provide SST Farms Dome Deflection Surveys Every Two Years	9/30/2013		On Schedule
M-045-91G-T03	Provide AOR Final Doc. for SSTs on 1,000,000 Gallon Tanks	9/30/2013		To Be Missed
Fiscal Year 2014				
M-045-91G-T04	Provide AOR Final Doc. for SSTs on 55,000 Gallon Tanks	10/31/2013		To Be Missed
M-062-40C	Select a Minimum of Three Scenario's for the System Plan	10/31/2013		On Schedule
M-045-91F	Provide Summary Conclusions Report on Leak Integrity	12/31/2013		To Be Missed
M-045-91G	Provide Summary Conclusions Report of AOR for SSTs	04/30/2014		To Be Missed
M-045-56J	Ecology And DOE Agree, At A Minimum, To Meet Yearly (By July)	07/31/2014		On Schedule
M-045-91B-T01	Provide Ecology report on the Concrete Core from TankA-106 or alt	09/30/2014		On Schedule
M-047-07	CD-1 for Secondary Liquid Waste Treatment and CR for CD-2 to Ecology	09/30/2014		On Schedule
M-090-13	CD-1 for Interim Hanford Storage Project and CR for CD-2 to ECY	09/30/2014		On Schedule
Fiscal Year 2015				
M-062-40D	Submit System Plan	10/31/2014		On Schedule
M-062-40ZZ	Submit One Time Tank Waste Supp Treatment Technologies Report	10/31/2014		On Schedule
M-045-61	Phase 2 RCRA Facility Investigation/Corrective Measures Study	12/31/2014		To Be Missed

Milestone	Title	Due Date	Completion Date	Status
Fiscal Year 2015 Continued				
M-062-45-T01	Comp. Neg's 6-Mo After Last Issuance of System Plan	04/30/2015		On Schedule
M-062-45-ZZ	Negotiate a One Time Supplemental Treatment Selection	04/30/2015		On Schedule
M-062-45-ZZ-A	Convert M-062-31-T01 Thru M-062-34-T01 to Interim Milestones	04/30/2015		On Schedule
M-045-62	Phase 2 Corrective Measures Implementation Work Plan For WMA C	06/30/2015		To Be Missed
M-045-92O	Barrier 3 Design/Monitoring Approval From Ecology	06/30/2015		On Schedule
M-045-56K	Ecology And DOE Agree, At A Minimum, To Meet Yearly (By July)	07/31/2015		On Schedule
M-045-91H	Submit Change Pkg (if necessary) to est. Additional Milestones	07/31/2015		On Schedule
M-045-82	Submit Comp. Permit Modification Request for Tiers 1,2,3	09/30/2015		To Be Missed

System Plan

M-062-40B, Submit a system plan describing the disposition of all tank waste managed by ORP, Due: 10/31/2011, Status: Completed 10/24/2011 via DOE-ORP/ECY joint signature letter 11-TPD-087.

M-062-40C, Select a minimum of three scenarios that will be analyzed in the system plan, Due: 10/31/2013, Status: On Schedule

M-062-40D, Submit a system plan describing the disposition of all tank waste managed by ORP, Due: 10/31/2014, Status: On Schedule

M-062-45-T01, Every six years, within six-months after last revision of the System Plan, negotiate tank waste retrieval sequencing, Due: 4/30/2015, Status: On Schedule

Significant Past Accomplishments:
ORP and Ecology met on April 30, 2013 for the WRPS presentation on the status on various recommendations made in regards to several model planning tools in the 2009, "External Technical Review for Evaluation of System Level Modeling and Simulation Tools in Support of Hanford Site Liquid Waste Process." No actions and no additional issues were identified as a result of the meeting.

Significant Planned Actions in the Next Six Months:
ORP and Ecology will jointly begin defining the System Plan 7 scenarios in the July-August 2013 time frame. The defined scenarios milestone (M-062-40C) is due October 31, 2013.

Issues:
None.

Acquisition of New Facilities

M-090-13, Submit CD-1 for Interim Hanford Storage Project and TPA Change Request for CD-2 to Ecology, Due: 09/30/14, Status: On Schedule. Created by TPA Change Control Form M-90-12-02, signed by ORP and Ecology on 11/19/12, to "Submit to Ecology, a Conceptual Design Report Package (Critical Decision-1) for the Interim Hanford Storage Project (storage of the first two years of Hanford Site Immobilized High-Level Waste from WTP operations) and a TPA Change Request (in accordance with TPA Action Plan Section 12.0) to submit to Ecology, a Preliminary Design Report package (Critical Decision-2)."

M-090-00, Acquire/modify facilities for storage of IHLW, Due: 12/31/2019, Status: On Schedule

M-047-07, Submit CD-1 for Secondary Liquid Waste Treatment and CR for CD-2 to Ecology, Due 09/30/14, Status: On Schedule. Created by TPA Change Control Form M-47-12-02, signed by ORP and Ecology on 11/19/12, to "Submit to Ecology, a Conceptual Design Report package (Critical Decision-1) for the Secondary Liquid Waste Treatment Project and a TPA Change Request (in accordance with TPA Action Plan Section 12.0) to submit to Ecology, a Preliminary Design Report package (Critical Decision-2).

M-047-00, Complete Work Necessary to provide facilities for management of secondary waste from the WTP, Due: 12/31/2022, Status: On Schedule

Significant Past Accomplishments:

On November 19, 2012, Ecology and ORP signed TPA Change Control Forms M-47-12-02 and M-90-12-02 establishing M-047-07 and M-090-13, respectively. ORP letter 12-ECD-0225 notified Ecology of completion of milestones M-047-06 and M-090-11.

Significant Planned Actions in the Next Six Months:

None.

Issues:

None.

Supplemental Treatment and Part B Permit Applications

M-062-40ZZ, Submit a one-time Tank Waste Supplemental Treatment Technologies report if a supplemental treatment technology is proposed other than a 2nd LAW, Due: 10/31/2014, Status: On Schedule.

M-062-45ZZ, Negotiate a one-time supplemental treatment selection, Due: 4/30/2015, Status: On Schedule. Negotiations are not yet underway.

M-062-45ZZ-A, Convert M-062-31-T01 through M-062-34-T01 to Interim Milestones, Due: 4/30/2015, Status: On Schedule.

M-062-31-T01, Complete final design and submit RCRA Part B permit mod request, Due: 4/30/2016, Status: On schedule

M-062-32-T01, Start construction of supplemental vitrification treatment facility and/or WTP enhancements, Due: 4/30/2018, Status: On schedule

M-062-33-T01, Complete construction of supplemental vitrification treatment facility and/or WTP enhancements, Due: 4/30/2021, Status: On schedule

M-062-45XX, No later than 12/31/2021, the DOE and Ecology shall complete negotiations to establish a mechanism that will apply to resolve future disputes regarding the determinations in M-062-45, paragraphs 4 and 5, due: 12/31/2021, Status: On Schedule

M-062-34-T01, Complete hot commissioning of supplemental vitrification treatment facility and/or WTP enhancements, Due: 12/30/2022, Status: On schedule

M-062-21, Annually, submit data that demonstrates operation of the WTP, Due: 2/28/2023, Status: On Schedule

M-062-00, Complete Pretreatment Processing and Vitrification of HLW and LAW Tank Wastes, Due: 12/31/2047, Status: On Schedule

Significant Past Accomplishments:
None

Significant Planned Actions in the Next Six Months:
None

Issues:
At the January 2013 TPA PMM meeting, ORP stated DOE and Ecology are currently in discussions to move out the due dates for M-062-40ZZ and M-062-45ZZ (current due dates 10/31/2014 and 4/30/2015, respectively).

ORP provided a draft change package for these milestones on February 12, 2013. Ecology provided comments on May 9, 2013. ORP is vetting these internally for response.

242-A Evaporator Status (previously reported under Milestone M-48, which has been closed out)

242-A Campaign strategy:

The 242-A Campaign Strategy for FY2010 through FY2015 depicted below has been updated based on ORP-11242, River Protection Project Plan, Revision 6, and ongoing schedule integration efforts.

Fiscal Year	Campaign No.	Feed Source	Slurry Tank	Comments
FY10	10-01	AW-106	AW-106	Campaigns 10-01/10-02 were performed back-to back starting in late August and completing in early October 2010. Campaign 10-02 was an acceleration of previously planned Campaign 11-01.
FY10	10-02	AW-106	AW-106	
FY11	NA	NA	NA	No campaign conducted in FY11 due to ongoing 242-A and Tank Farm facility life extension and ARRA funded upgrades.
FY12	NA	NA	NA	No campaign conducted in FY12 due to ongoing 242-A and Tank Farm facility upgrades and revision to the 242-A Documented Safety Analysis (DSA).
FY13	13-01	AP-107	AP-107	Estimated start late September 2013. Requires two (2) passes to achieve waste volume reduction.
FY13	13-02	AW-106	AP-107	Estimated start late October 2013.
FY14	14-01	AN-106 AZ-102 AW-106	AP-103	Estimated start June 2014.
FY15	15-01	AY-101 AZ-102	AP-103	Estimated start July 2014
FY15	15-02	AY-101	AP-103	Estimated start March 2015

SST Integrity Assurance

M-045-91F-T01, Provide to Ecology as a HFFACO secondary document a report evaluating the applicability to Hanford SSTs of the liquid leak rate assessments of sludge and salt-cake from the Savannah River Site, Due: 1/31/2013, Status: Missed. See issues below.

M-045-91D-T01, Provide Ecology a report containing the results and interpretation of testing, and analysis performed on the concrete dome samples obtained from the Tank C-107 plug, Due: 5/31/2013, Status: On schedule.

M-045-91F-T03, Provide to Ecology, as a HFFACO secondary document a report assessing the feasibility of testing for ionic conductivity between the inside and outside of SSTs, Due: 5/31/2013, Status: Complete 05/02/2012. (ORP letter 12-TF-0009)

M-045-91F-T02, Provide to Ecology as a HFFACO secondary document a report evaluating the common factors of liner failures for SSTs that have leaked and will provide recommendations as appropriate, such as enhanced Leak Detection, Monitoring, and Mitigation, Due: 7/31/2013, Status: To Be Missed. See issues below.

M-045-91F-T04, provide to Ecology, as a HFFACO secondary document, a report on the 100-series single-shell tanks which have been or will be identified as having leaked in RPP-32681, Rev 0, Due: 7/31/2013, Status: To Be Missed. See issues below.

M-045-91G-T03, Provide to Ecology the Structural Analyses of Record final documentation for SSTs for 1,000,000 gallon tanks (A, AX and SX Farms), Due: 9/30/2013, Status: To Be Missed. See issues below.

M-045-91E, Provide to Ecology a compilation of the Single-Shell Tank farms dome deflection surveys every two years, beginning 9/30/2013, Due: 9/30/2013, Status: On schedule.

M-045-91G-T04, provide to Ecology the Structural Analyses of Record final documentation for SSTs for 55,000 gallon tanks (B, C, T and U Farms), Due: 10/31/2013, Status: To Be Missed. See issues below.

M-045-91F, Provide to Ecology a report (Summary Conclusions Report on Leak Integrity) summarizing and evaluating the information submitted under M-045-91F-T01 through -T04, Due: 12/31/2013, Status: To Be Missed. See issues below.

M-045-91G, Provide a Summary Conclusions Report of Structural Analysis of Record (AOR) for SSTs, Due: 4/30/2014, Status: To Be Missed. See issues below.

M-045-91B-T01, Provide Ecology a report containing the results and interpretation of testing. and analysis, performed on the concrete core obtained from Tank A- 106 or alternate tank, Due: 9/30/2014, Status: On schedule.

M-045-91H, Submit a change package (if deemed necessary by DOE and Ecology) to establish additional milestones based on information obtained from the actions in the preceding M-045-91 series milestones to date, Due: 7/31/2015, Status: On schedule.

M-045-91I, Provide to Ecology an IQRPE certification of SSTs structural integrity for the remainder of the mission, or for such time as the IQRPE believes he/she can reasonably certify, Due: 9/30/2018, Status: On schedule.

Significant Past Accomplishments:

None.

Significant Planned Actions in the Next Six Months:

- Conclude discussion with Ecology regarding "To Be Missed" target dates and interim milestone impacts and submit the agreed-upon TPA Change Package for approval.
- Complete analysis of rebar from C-107 and complete M-045-91D-T01.

Issues:

- FY2012 and FY2013 funding constraints have impacted M-045-91 scheduled work. ORP has met with Ecology to discuss impacts on individual milestones and targets dates for FY2013 and beyond per the TPA Section 12.0 Change Process. Ecology's initial comments on a draft TPA Change Request have been incorporated, and ORP has provided this updated draft to Ecology for review. As a result of sequestration, additional impacts to SST integrity work are being identified and ORP is re-evaluating the change package.

In Tank Characterization and Summary

For the period from April 1 – April 30, 2013:

Accomplishments:

- Completed RPP-PLAN-54804, Rev. 0, Tank 241-AY-101 Grab Sampling and Analysis Plan.
- Completed RPP-RPT-43992, Rev. 7, Derivation of Best-Basis Inventory for Tank 241-AN-106 as of January 1, 2013.
- Completed RPP-RPT-48639, Rev. 6, Derivation of Best-Basis Inventory for Tank 241-AP-104 as of January 1, 2013.
- Completed RPP-RPT-43979, Rev. 11, Derivation of Best-Basis Inventory for Tank 241-AY-101 as of January 1, 2013.
- Completed RPP-RPT-44637, Rev. 6, Derivation of Best-Basis Inventory for Tank 241-AZ-101 as of January 1, 2013.
- Completed RPP-RPT-45147, Rev. 2, Derivation of Best-Basis Inventory for Tank 241-C-108 as of January 1, 2013.
- Completed RPP-RPT-44643, Rev. 3, Derivation of Best-Basis Inventory for Tank 241-SY-102 as of January 1, 2013.

- Completed RPP-RPT-44814, Rev. 10, Derivation of Best-Basis Inventory for Tank 241-AN-101 as of January 1, 2013.
- Completed RPP-RPT-54440, Rev. 0, Derivation of Best-Basis Inventory for Tank 241-C-101 as of January 1, 2013.
- RPP-RPT-54847, Rev. 0, Final Report for Tank 241-SY-102 Grab Samples in Support of Corrosion Mitigation after Caustic Addition was released on April 9, 2013.
- RPP-RPT-54847, Rev. 0A, Final Report for Tank 241-SY-102 Grab Samples in Support of Corrosion Mitigation after Caustic Addition was released on April 24, 2013.

Planned Action within the next Six Months:

- Tank Sampling
  - Tank 241-C-109 ORSS sampling for closure is currently scheduled for May 2013 (completed 05/08/13).
  - Tank 241-AY-101 grab sampling for chemistry control is currently scheduled for May 2013.
  - Tank 241-AN-102 grab sampling for chemistry control is currently scheduled for July 2013.
  - Tank 241-C-107 Mobile Arm Retrieval System (MARS) Drag Sampling for closure is currently on hold until post-retrieval.
- BBI Updates
  - The tanks identified for updates in FY13 Quarter 3 are still being approved by ORP. The BBI updates will be issued in July 2013.
- Data Quality Objectives (DQO)
  - A DQO on a Solubility Model is due to be released in June 2013.
  - A DQO for Tank C-112 Hard Heel Dissolution is due to be released in May 2013.
  - A revision to the Tank Farms Waste Compatibility Program DQO is due to be released in May 2013.

Issues:

None.

TANK OPERATIONS CONTRACT (TOC) OVERVIEW

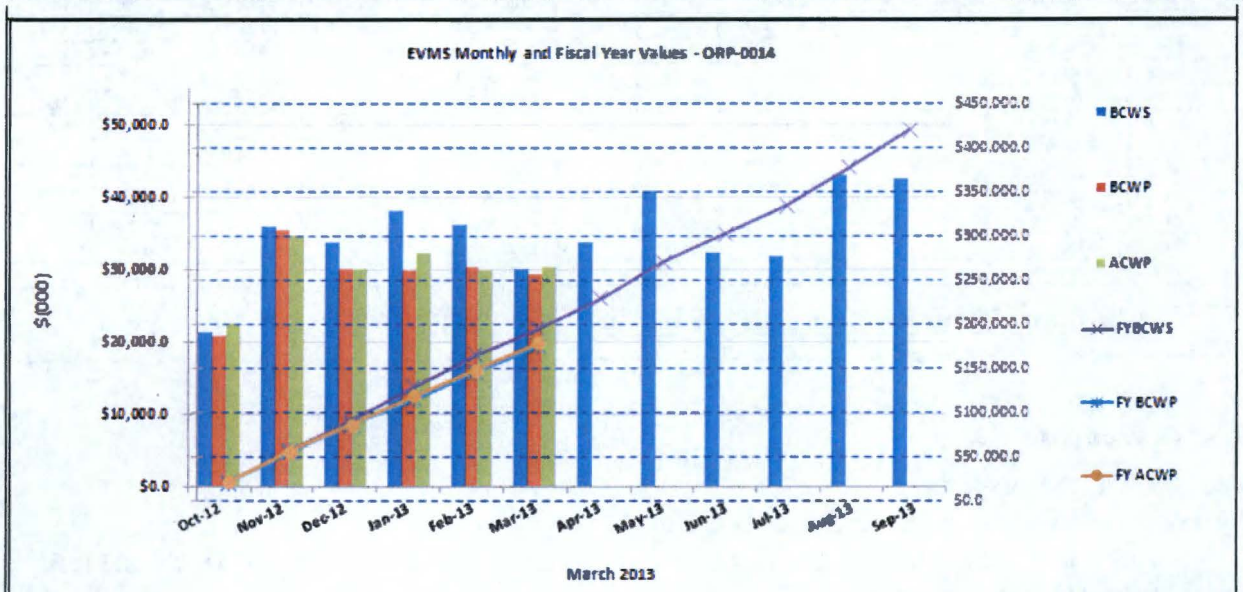
Project Performance

The earned value performance reporting reflects the format, Work Breakdown Structure (WBS) reporting levels, and variance thresholds as agreed to with the Tank Farms Operations Contractor (TOC) for monthly performance reporting. The earned value analysis is not intended to be a measurement of performance against existing Tri-Party Agreement Milestones.

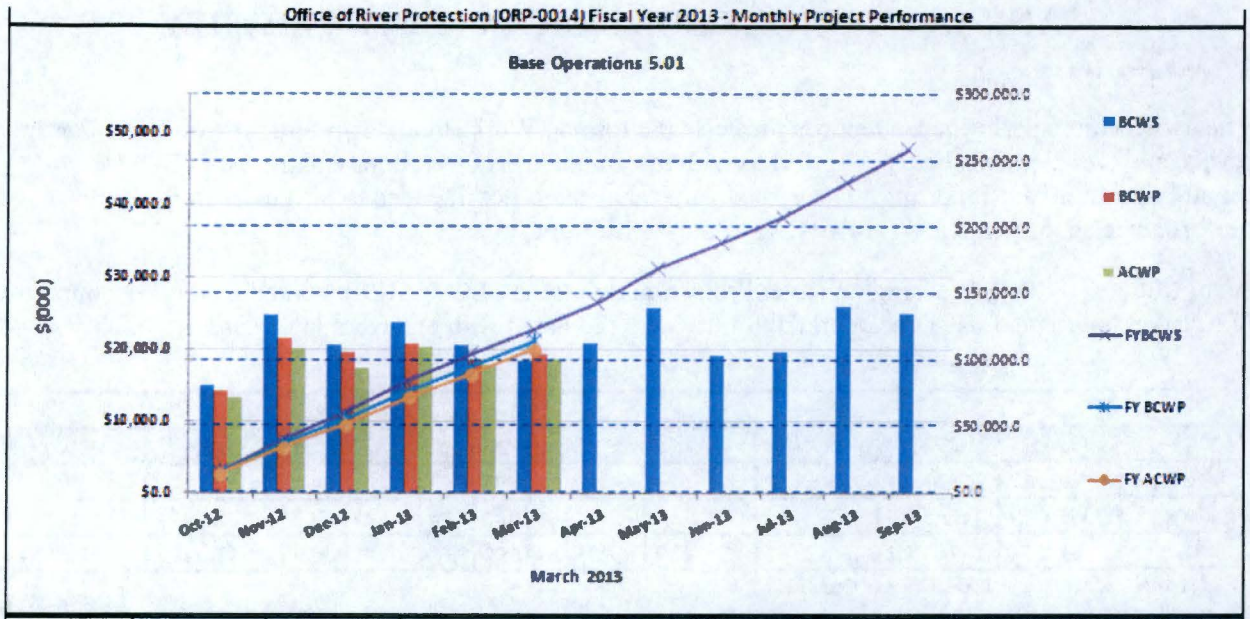
As of March 31, 2013, Washington River Protection Solutions LLC (WRPS) worked 6,943,061 hours (720 days) without a Lost Time Workday Injury and (23 days) with one recordable case in March

	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	BAC	EAC	VAC
CM	30,026.2	29,261.1	30,306.9	(765.1)	(1,045.8)	0.97	0.97			
FYTD	195,430.1	175,594.0	179,381.6	(19,836.1)	(3,787.6)	0.90	0.98	411,626.0	355,113.0	56,512.6
CTD	1,799,530.1	1,774,470.1	1,704,527.2	(25,060.0)	69,942.9	0.99	1.04	7,015,162.4	6,927,880.3	87,282.1

Red shaded cells indicates a SPI CPI less than .90;
Green shaded cells indicate a SPI CPI between .90 and .99; and
Blue shaded indicates a SPI CPI greater than or equal to 1.0



Earned Value Month	BCVS	BCVP	ACVP	SPI	CPI	FYBCVS	FY BCVP	FY ACVP	FY SPI	FY CPI
Oct-12	$21,350.5	$20,911.7	$22,382.9	0.98	0.93	$21,350.5	$20,911.7	$22,382.9	0.98	0.93
Nov-12	$35,910.8	$35,319.2	$34,775.1	0.98	1.02	$57,261.3	$56,230.9	$57,158.0	0.98	0.98
Dec-12	$33,795.4	$30,044.9	$29,940.1	0.89	1.00	$91,056.7	$86,275.8	$87,098.1	0.95	0.99
Jan-13	$38,179.6	$29,766.1	$32,202.8	0.78	0.92	$129,236.3	$116,041.9	$119,300.9	0.90	0.97
Feb-13	$36,167.5	$30,290.9	$29,773.7	0.84	1.02	$165,403.8	$146,332.8	$149,074.6	0.88	0.98
Mar-13	$30,026.2	$29,261.1	$30,306.9	0.97	0.97	$195,430.0	$175,593.9	$179,381.5	0.90	0.98
Apr-13	$33,773.8			0.00		$229,203.8			0.00	
May-13	$40,892.1			0.00		$270,095.9			0.00	
Jun-13	$32,288.5			0.00		$302,384.4			0.00	
Jul-13	$31,800.4			0.00		$334,184.8			0.00	
Aug-13	$42,997.4			0.00		$377,182.2			0.00	
Sep-13	$42,434.3			0.00		$419,616.5			0.00	
CTD	$1,799,530.1	$1,774,470.1	$1,704,527.2	0.99	1.04					



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-12	$14,882.7	$14,170.4	$13,207.0	0.95	1.07	$14,882.7	$14,170.4	$13,207.0	0.95	1.07
Nov-12	$24,586.3	$21,630.8	$20,130.8	0.88	1.07	$39,469.0	$35,801.2	$33,337.8	0.91	1.07
Dec-12	$20,440.9	$19,491.2	$17,422.8	0.95	1.12	$59,909.9	$55,292.4	$50,760.6	0.92	1.09
Jan-13	$23,738.1	$20,753.9	$20,334.3	0.87	1.02	$83,648.0	$76,046.3	$71,094.9	0.91	1.07
Feb-13	$20,673.5	$18,559.8	$17,986.6	0.90	1.03	$104,321.5	$94,606.1	$89,081.5	0.91	1.06
Mar-13	$18,283.2	$19,287.8	$18,596.4	1.05	1.04	$122,604.7	$113,893.9	$107,677.9	0.93	1.06
Apr-13	$20,728.3			0.00		$143,333.0			0.00	
May-13	$25,607.5			0.00		$168,940.5			0.00	
Jun-13	$19,077.3			0.00		$188,017.8			0.00	
Jul-13	$19,634.2			0.00		$207,652.0			0.00	
Aug-13	$25,939.3			0.00		$233,591.3			0.00	
Sep-13	$24,820.9			0.00		$258,412.2			0.00	
CTD	$1,157,948.6	$1,146,758.1	$1,108,368.6	0.99	1.03					

Base Operations

Schedule Variance $1,005K

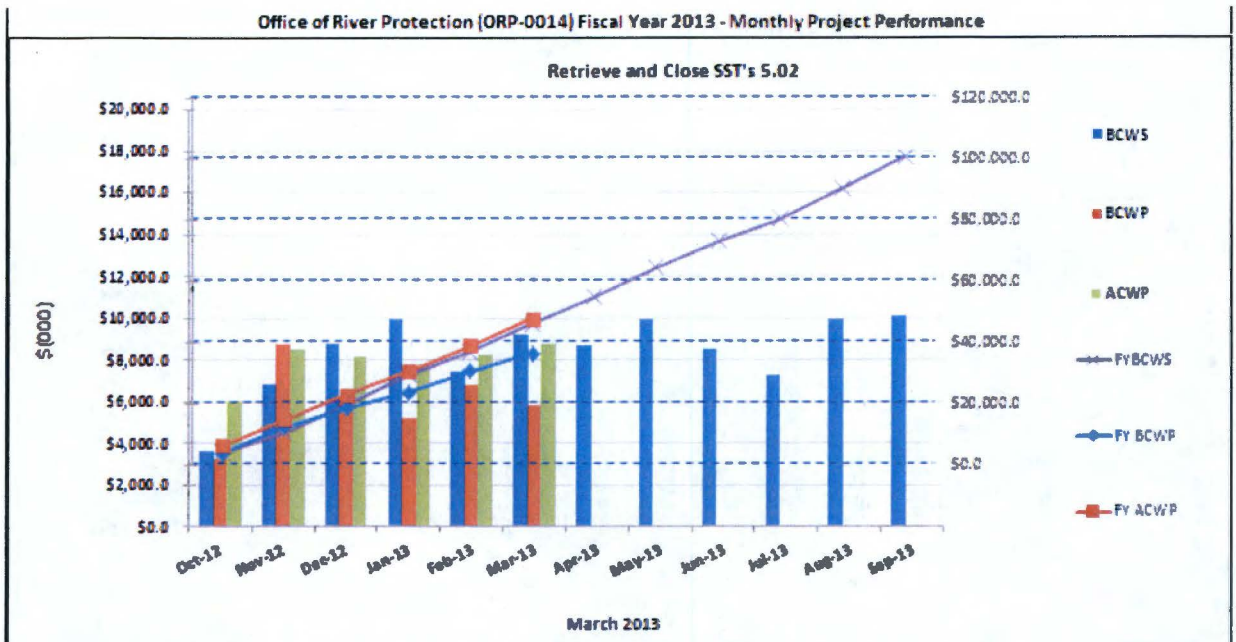
The favorable schedule variance is primarily due to:

- Deferral of AY/AZ Infrastructure Upgrades work scope being deferred due to the AY-102 leak assessment.

Cost Variance $691K:

The favorable cost variance is primarily due to:

- Deferral of AY/AZ Infrastructure Upgrades work scope being deferred due to the AY-102 leak assessment.



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	$9,250.2	$5,862.5	$8,789.0	0.63	0.67	$45,836.3	$36,067.6	$47,501.8	0.79	0.76
Apr-13	$8,677.0			0.00		$54,513.3			0.00	
May-13	$9,896.3			0.00		$64,409.6			0.00	
Jun-13	$8,470.0			0.00		$72,879.6			0.00	
Jul-13	$7,298.8			0.00		$80,178.4			0.00	
Aug-13	$9,902.0			0.00		$90,080.4			0.00	
Sep-13	$10,128.5			0.00		$100,208.9			0.00	
CTD	$385,535.2	$376,967.8	$381,497.5	0.98	0.99					

Retrieval and Close Single-Shell Tanks

Schedule Variance ($3,388K):

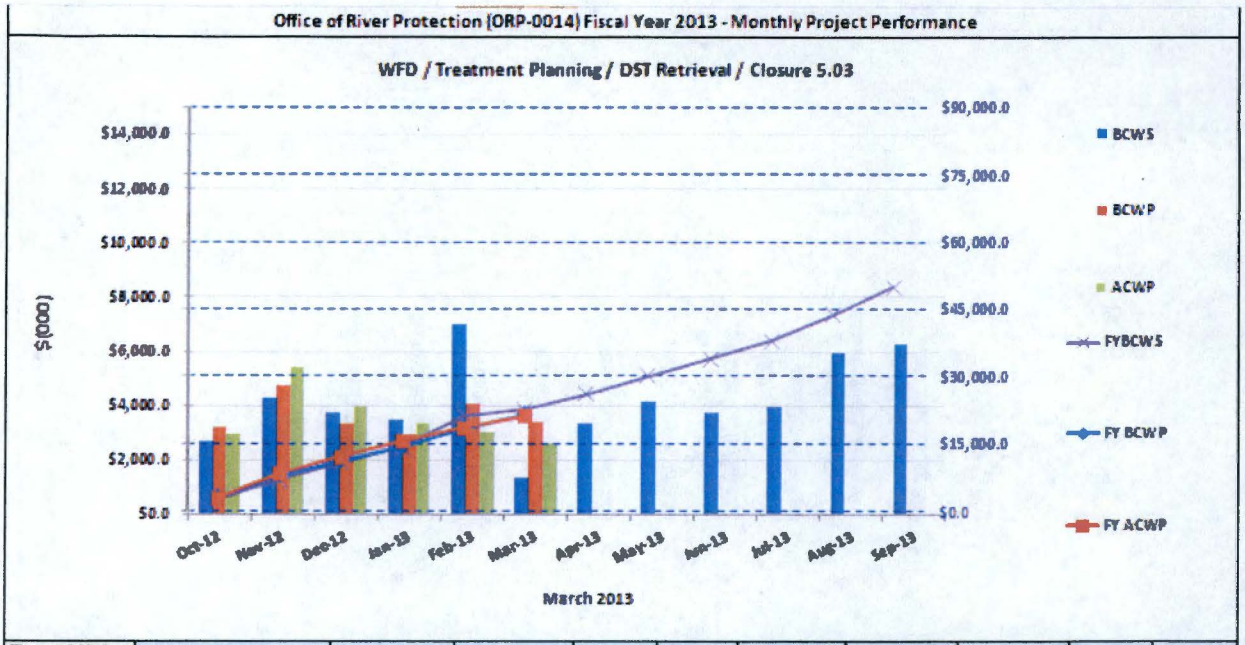
The unfavorable schedule variance is primarily due to:

- C-102 no longer being retrieved in parallel with C-101 due to a shift in labor resource skills resulting from sequestration funding reductions.
- C-105 dome cut and MARS Vacuum installation due to the DPO.
- C-107 and C-109 sampling delay due to resource availability.

Cost Variance ($2,926K):

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 field and operations crews needed to perform conduit installation.
- Higher costs required to resolve issues with the MARS-V system.



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-12	$2,710.6	$3,212.7	$2,921.1	1.19	1.10	$2,710.6	$3,212.7	$2,921.1	1.19	1.10
Nov-12	$4,289.4	$4,729.6	$5,435.7	1.10	0.87	$7,000.0	$7,942.3	$8,356.8	1.13	0.95
Dec-12	$3,764.2	$3,316.5	$3,912.1	0.88	0.85	$10,764.2	$11,258.8	$12,268.9	1.05	0.92
Jan-13	$3,476.4	$2,941.2	$3,378.3	0.85	0.87	$14,240.6	$14,200.0	$15,647.2	1.00	0.91
Feb-13	$7,001.2	$4,060.6	$3,017.0	0.58	1.35	$21,241.8	$18,260.6	$18,664.2	0.86	0.98
Mar-13	$1,383.9	$3,382.6	$2,595.8	2.44	1.30	$22,625.7	$21,643.2	$21,260.0	0.96	1.02
Apr-13	$3,354.2			0.00		$25,979.9			0.00	
May-13	$4,153.5			0.00		$30,133.4			0.00	
Jun-13	$3,727.7			0.00		$33,861.1			0.00	
Jul-13	$3,945.8			0.00		$37,806.9			0.00	
Aug-13	$5,937.2			0.00		$43,744.1			0.00	
Sep-13	$6,262.4			0.00		$50,006.5			0.00	
CTD	$236,502.7	$231,692.7	$199,087.5	0.98	1.16					

Waste Feed Delivery/Treatment/DST Retrieval Closure

Schedule Variance $1,999K:

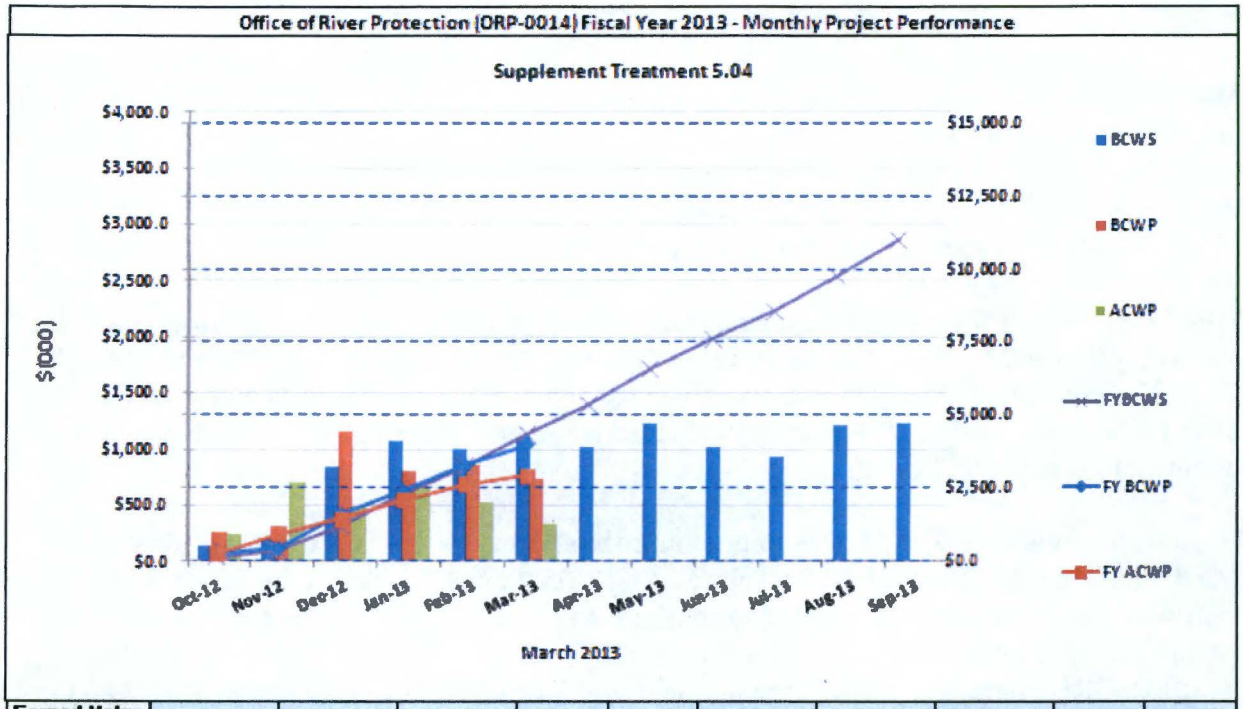
The favorable schedule variance is primarily due to:

- Direction from ORP to stop the AY/AZ Ventilation System Upgrade procurements, construction and safety basis activities due to issues related to the AY-102 leak assessment. This directed change also affected AY-102 equipment upgrades and mixing demonstration design. A baseline change request was implemented in the April timeframe to remove these activities from the baseline.

Cost Variance $787K

The favorable cost variance is primarily due to:

- Direction from ORP to stop the AY/AZ Ventilation System Upgrade procurements, construction and safety basis activities due to issues related to the AY-102 leak assessment. This directed change also affected AY-102 equipment upgrades and mixing demonstration design. A baseline change request was implemented in the April timeframe to remove these activities from the baseline.



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FYBCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct-12	$136.6	$266.4	$245.6	1.95	1.08	$136.6	$266.4	$245.6	1.95	1.08
Nov-12	$212.9	$169.2	$705.1	0.79	0.24	$349.5	$435.6	$950.7	1.25	0.46
Dec-12	$835.7	$1,150.7	$487.7	1.38	2.36	$1,185.2	$1,586.3	$1,438.4	1.34	1.10
Jan-13	$1,067.8	$811.9	$646.8	0.76	1.26	$2,253.0	$2,398.2	$2,085.2	1.06	1.15
Feb-13	$1,001.5	$863.0	$531.0	0.86	1.63	$3,254.5	$3,261.2	$2,616.2	1.00	1.25
Mar-13	$1,108.8	$728.1	$325.8	0.66	2.23	$4,363.3	$3,989.3	$2,942.0	0.91	1.36
Apr-13	$1,014.3			0.00		$5,377.6			0.00	
May-13	$1,234.8			0.00		$6,612.4			0.00	
Jun-13	$1,013.5			0.00		$7,625.9			0.00	
Jul-13	$921.5			0.00		$8,547.4			0.00	
Aug-13	$1,218.8			0.00		$9,766.2			0.00	
Sep-13	$1,222.5			0.00		$10,988.7			0.00	
CTD	$18,434.7	$18,314.5	$15,247.8	0.99	1.20					

Supplemental Treatment

- Nothing to report.

WBS 5.2 Retrieve and Close Single Shell Tanks

M-045-20, Submit Interim Measure Investigation Work Plan to Ecology, Due: 12/31/12, Status: Completed on 12/06/12. Comments have been resolved and the revised Work Plan and final TPA change package were transmitted to Ecology via 13-TF-0014. Ecology approved the Work Plan via 13-NWP-030 on 03/27/13 and provided a signed TPA change package to ORP for M-045-22 and its associated target dates on 04/01/13.

M-045-21, Submit for Review and Approval a Sampling and Analysis Plan to Ecology for Soil Samples for 241-TX Tank Farm Investigation, Due: 03/31/13, Status: Completed on 03/11/13. The Sample Analysis Plan was finalized and was transmitted to Ecology via ORP letter 13-TF-0013 on 03/11/13. Ecology provided comments in the April TPA PMM, and these comments are being addressed.

M-045-22, Review M-045-22-T03 Report and Determine Path Forward, Due: 09/30/2014 based on M-045-20 TPA Change Package M-45-12-05, Status: On Schedule. This ORP/Ecology decision point will determine whether to continue with soil desiccation/contaminant removal testing and other interim measures, and if remaining work in Milestone M-045-92 should be modified. ORP submitted TPA change package M-45-12-05 adding dates for M-045-22 and its targets with the revised Work Plan via letter 13-TF-0014. Ecology approved the TPA change package on 04/01/13.

M-045-22-T01, Submit Results of Vadose Zone Characterization of 241-TX to Ecology, Due: 09/30/2014 based on M-045-20 TPA Change Package M-45-12-05, Status: On Schedule.

M-045-22-T02, Submit Results of Vadose Zone Characterization of 241-U to Ecology, Due: 04/30/2014 based on M-045-20 TPA Change Package M-45-12-05, Status: On Schedule.

M-045-22-T03, Submit SX Soil Desiccation/Contaminate Removal Tech Results to Ecology, Due: 07/31/2014 based on M-045-20 TPA Change Package M-45-12-05, Status: On Schedule.

M-045-56I, Complete Implementation of Agreed to Interim Measures, Due: 07/31/13, Status: On Schedule

M-045-59, Control surface water infiltration pathways as needed to control or significantly reduce the likelihood of migration of subsurface contamination to groundwater at the SST WMAs (pending the CMS report, milestone M-45-58, and implementation of other interim corrective measures), Due: TBD, Status: On Schedule

M-045-61, Submit to Ecology for review and approval as an Agreement primary document a Phase 2 RFI/CMS Report for WMA C, Due: 12/31/2014, Status: To Be Missed. Please see Issues.

M-045-62, Submit to Ecology for review and approval as an Agreement primary document a Phase 2 Corrective Measures Study Implementation Plan for WMA C, Due: 06/30/2015, Status: To Be Missed. Please see Issues.

M-045-92, DOE and Ecology will establish selection criteria for installation of additional interim barriers at additional WMAs (beyond the T-106 and TY barriers), Due: 09/30/2017, Status: On Schedule. This milestone date has been modified according to M-45-12-04 and the decision to move forward with construction/design of additional barriers dependent on discussions per M-045-22.

M-045-92N, Construct Barriers 1 and 2 in 241-SX Farm Due: 10/31/15, Status: On Schedule. The decision to move forward with construction/design of additional barriers is dependent on discussions per M-045-22.

M-045-92O, Submit a Final Design and Monitoring Plan for Interim Barrier 3 Due: 06/30/15, Status: On Schedule. The decision to move forward with construction/design of additional barriers is dependent on discussions per M-045-22.

Significant Past Accomplishments:

- Automated data collection systems for T-Farm and TY Farm interim barrier monitoring continue gathering data.
- The test site was selected for the pore water extraction test south of SX farm under the M-045-20 work plan.
- The Sample Analysis Plan for 241-TX Farm was transmitted to Ecology via ORP letter 13-TF-0013 on 03/11/13.
- Direct push of 4 boreholes near the C-200 tanks has been completed. The boreholes are being logged, and will be decommissioned to place deep electrodes for resistivity evaluations.
- The TY Interim Surface Barrier Monitoring Plan was revised per approved TPA Change Notice 2012-09.
- Set-up of the electrodes in U farm for electrical resistivity characterization was started.

Significant Planned Actions in the Next Six Months:

- Provide a summary report of the 2012 T and TY barrier monitoring data.
- Initiate direct push field work in TX farm under the M-045-20 work plan.
- Complete electrical resistivity field work in U farm under the M-045-20 work plan.
- Complete direct push field work near the C-200 tanks per the WMA C Phase 2 RFI/CMS Work Plan.
- Perform electrical resistivity field work near the C-200 tanks per the WMA C Phase 2 RFI/CMS Work Plan.

SST Retrieval and Closure Program

M-045-82, Submit complete permit mod requests for Tiers 1, 2, & 3 of the SST, Due: 9/30/2015 Status: To Be Missed. Please see Issues.

M-045-84, Complete negotiations of TPA interim MS for closure of second WMA, Due: 1/31/2017, Status: On Schedule

M-045-83, Complete the closure of WMA C, Due: 6/30/2019, Status: On Schedule

M-045-85, Complete negotiations of TPA interim MS for closure of remaining WMAs, Due: 1/31/2022, Status: On Schedule

M-045-70, Complete waste retrieval from all remaining SSTs, Due: 12/31/2040, Status: On Schedule

M-045-00, Complete Closure of all Single Shell Tank Farms, Due: 1/31/2043, Status: On Schedule

M-045-86, Submit retrieval data report to Ecology for 19 tanks retrieved, Due: TBD (12 months after retrieval certification), Status: On Schedule. The CD Retrieval Completion Certification for SST Tank C-104 was sent to Ecology on 03/21/13 via ORP letter 13-TF-0018.

Significant Past Accomplishments:

- Completed post-retrieval sampling, analysis and reporting of results for tank C-108 in support of the M-045-86 retrieval data report.
- Completed post-retrieval sampling of tank C-104 in support of the M-045-86 retrieval data report.
- Completed post-retrieval logging of drywells near C-108 in support of the M-045-86 retrieval data report.
- See discussions above and related discussions in Consent Decree report.

Significant Planned Activities in the Next Six Months:

- Continue analysis of the post-retrieval samples from tank C-104.
- Issue a Retrieval Data Report for C-108.
- See discussions above and related discussions in Consent Decree report.

Issues:

The WMA-C performance assessment (PA) is not currently funded in fiscal year 2013. ORP has reported previously that the WMA-C PA would need to be funded by March 31, 2013 in order to maintain milestone schedule. As a result of the continued non-funding of the WMA-C PA, TPA Milestones M-045-61, M-045-62, and M-045-82 are now To Be Missed.

ORP began discussions with Ecology about a TPA project manager-level agreement to determine an alternative path forward for M-045-61 and M-045-62 on 03/14/13. ORP has provided a draft TPA project manager agreement to Ecology for their review and approval.

ORP and Ecology will meet separately to discuss TPA milestone M-045-82 for the Tier 1, 2, and 3 WMA C SST closure submittal. ORP and Ecology will discuss impacts to this work scope and the potential for a Tier 1 submittal.

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:

Modification notice 2013-04 for TWRWP RPP-22520 was approved by ORP and Ecology allowing the C-105 dome cut to be made with olivine abrasive or a rotary coring system.

Significant Planned Activities in the Next 6 Months:

Work with Ecology on update to TWRWP RPP-37739 for C-111.

Issues:

None.

Tank in Appendix H. Status - Single Shell Waste Retrieval Criteria

Tank 241-C-106

Significant Past Accomplishments:

None

Significant Planned Activities in the Next Six Months:

Continue U.S. Nuclear Regulatory Commission (NRC) review of the C-106 exception request. A Request for Additional Information (RAI) was received from the NRC in February 2009.

Issues:

It has been discussed with the NRC that much of the additional information requested is dependent upon development of C-Farm residual waste PA and, therefore, cannot be provided until the PA is published.

Tank Retrievals with Individual Milestones

Tank 241-A-103

M-045-15, Completion of Tank A-103 SST Waste Retrieval, Due: 9/30/22 Status: On schedule. Change package M-45-11-04 replaced tank S-102 with tank A-103 and changed to milestone completion date for M-045-15 to 09/30/2022.

M-045-15A, Embedded Milestone, Submit a Retrieval Data Report Pursuant to Agreement Appendix I, Due: 9/30/22, Status: On schedule. Updated with tank A-103 and due date of 9/30/22 per M-45-11-04 Change Package.

M-045-15D, Embedded Milestone, if appropriate, DOE will request an exception to waste retrieval criteria pursuant to Agreement Appendix H, Due: 9/30/22, Status: On Schedule. Updated with A-103 tank and due date of 9/30/22 per M-45-11-04 Change Package.

Significant Past Accomplishments:
Change Package M-45-11-04 was signed by ORP and Ecology on 04/19/11.

Significant Planned Activities in the Next Six Months and Issues:
None

Tank 241-S-112

M-045-13, Interim Completion of Tank S-112 SST Waste Retrieval and Closure Demonstration Project, Due: TBD (in accordance with M-045-84 or M-045-85), Status: On Schedule

M-045-13E, Complete Negotiations for Interim Milestones for Closure of S-112, Due: TBD Status: On Schedule as part of M-045-84 or M-045-85.

Significant Past Accomplishments:
Ecology letter of January 7, 2008, concurred with ORP that retrieval of Tank S-112 is complete.

Significant Planned Activities in the Next Six Months or Issues:
None.

WASTE TREATMENT AND IMMOBILIZATION PLANT (WTP) PROJECT

Number	Title	Due Date	Status
M-062-01Z	Submit Semi-Annual TPA Project Compliance Report	01/31/2013	Complete
M-062-01AA	Submit Semi-Annual TPA Project Compliance Report	7/31/2013	On Schedule

*SEE THE MAY 2013 ORP CONSENT DECREE 08-5085-FVS MONTHLY SUMMARY REPORT FOR WTP FACILITY-SPECIFIC INFORMATION