

# TPA Quarterly Review



*Tri-Party Agreement*

## *River Corridor Milestones:*

M-16

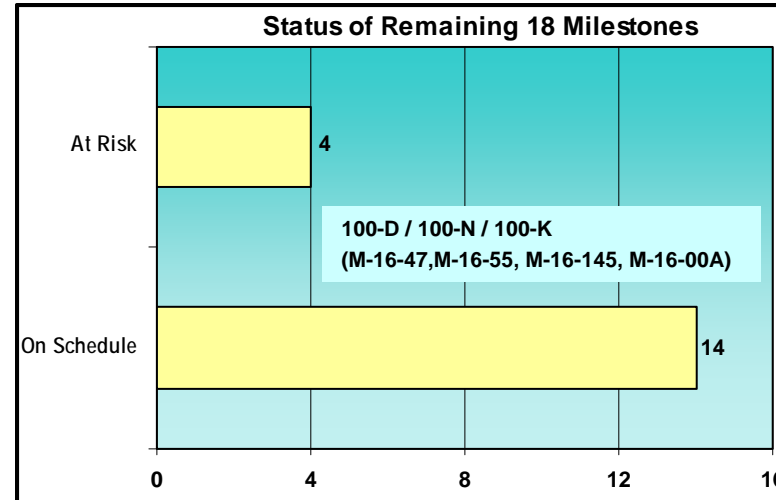
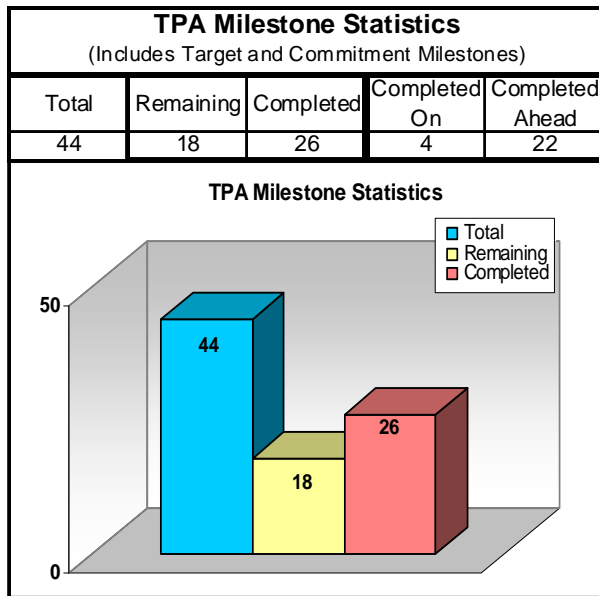
M-93

M-89

M-94

U.S. Department of Energy  
U.S. Environmental Protection Agency  
Washington State Department of Ecology

*Protecting the Columbia River*



**Quarterly Summary (March – May 2010)**

- Completed one TPA milestone:
  - M-16-94 - Complete Interim Remedial Actions at 100-B-11, 100-B-14, 100-B-16, 118-B-9, 100-C-9, 600-232, 100-B-18, 100-B-19, 100-B-20, 100-B-21, 100-B-22, 100-B-23, 100-B-24, 100-B-25, 100-B-26, 100-B-27, 100-B-28, 118-C-3:3, 126-B-2, 600-230, 100-B-17, 600-233 (due 11/30/10) - 4/16/10
- No TPA change requests were approved during the past quarter. TPA change request M-16-09-06 (100-D Area) is in RL concurrence and will be transmitted to Ecology.

# RIVER CORRIDOR CLOSURE PROJECT

For Period: March – May 2010

TPA MS No.	Compliance Date	Title	Status	Comments
<b>M-16 Milestones - Remedial Action (milestones through 12/31/2011)</b>				
M-16-64	09/30/10	Complete Interim RA, Except Revegetation, for Following 300-FF-2 Waste Sites (300-259, 303-M SA, 303-M UOF, UPR-300-46, UPR-300-17, and 618-1)	On schedule	Completion expected summer 2010.
M-16-51-T02	12/31/10	Complete Excavation of 3 of 5 100-H Burial Grounds	On schedule	
M-16-51	12/31/11	Complete Interim RA for 100-H Area	On schedule	
M-16-47	12/31/11	Complete Interim RA for 100-D Area	At risk	Delays in obtaining regulatory approval of closeout documents and its impact on backfill put milestone at risk. Additionally, TPA CR M-16-09-06 proposes removal of several 100-D-31 segments.
<b>M-89 Milestone - 324 Bldg Non-Permitted MW Units Closure</b>				
M-89-00	09/30/12	Complete Closure of Non-Permitted Mixed Waste Units in 324 Bldg REC B-Cell, REC D-Cell, and High Level Vault	On schedule	
<b>M-93 Milestone - Reactors Final Disposition</b>				
M-93-20	09/30/12	Complete 105N Reactor ISS	On schedule	ISS in progress.
<b>M-94 Milestone - 300 Area Surplus Facilities Disposition (milestones through 12/31/2011)</b>				
M-94-08	12/30/11	Complete Removal and/or RA for 11 of Following Facilities: 305B, 306E, 306W, 307 Retention Basins, 308, 309, 321, 323, 324, 324B, 327, 333, 340, 3706, and 3720	On schedule	305B, 306E, 333 completed under M-94-06 (March 2008). 3706, 306W, 3720 completed under M-94-07 (March 2009).

**Significant Accomplishments – For Last 3 Months:**

**M-16 – Remedial Action / Risk Assessment:**

- Started equipment mobilization for concrete removal at 100-C-7.
- Continued overburden removal and loadout of 100-D-31 pipelines.
- Continued 100-D/100-H Area waste site closure verification sampling.
- Completed excavation and loadout of six waste sites in 100-IU-2/6.
- Awarded 100-N remaining sites remediation subcontract.
- Initiated backfill at 618-1 Burial Ground.
- Awarded 300 Area remediation subcontract for north of Apple Street waste sites.
- Completed Phase III groundwater upwelling characterization field activities (in support of remedial investigation of Hanford Site releases to Columbia River).
- Issued 100-F/IU-2/IU-6 – Segment 1 Orphan Sites Evaluation Report, Rev. 0.
- Received approval of 15 waste site closure documents during this reporting period.
- American Recovery and Reinvestment Act (ARRA) - Issued RFP for 100-F Area remediation; received bids.
- ARRA - Completed 618-10 vertical pipe unit (VPU) and trench radiological characterization activities.
- ARRA - Completed 618-10 VPU soil sampling activities.

**M-89 – 324 Bldg Non-Permitted MW Units Closure:**

- Initiated grout placement in REC B-Cell, High-Level and Low-Level vaults, and SMF south cell.
- Completed high bay demolition.

**M-93 – Reactors Final Disposition:**

- Continued 109N safe storage enclosure (SSE); continued 105N SSE design.
- Continued 105N above/below-grade demolition and loadout.

**M-94 – 300 Area Surplus Facilities Disposition:**

- Installed gantry and track for 327 hot cell removal; removed Hot Cells A-I and upper SERF cells from building and built grout boxes.
- Completed above-grade demolition and loadout of 336 High Bay Testing Facility and 338 Maintenance Building.



Plastic Sleeve Containing Soil Sample (618-10)



327 Facility Hot Cell Removal

**Significant Accomplishments – For Last 3 Months (cont’d):**

**ERDF:**

- For period of March through May 2010, disposed more than 464,000 tons of waste in ERDF.
- ARRA – Completed excavation of Super Cell 10, nearly four months ahead of schedule.
- ARRA – Started manufacturing and placing bentonite admix in Super Cell 9.
- ARRA – Started construction of Super Cells 9/10 crest pad buildings.
- ARRA – Issued notice-to-proceed for design of equipment, truck, and container maintenance shops, and ERDF operations center.
- ARRA – Received final design for fueling station.



Admix Production

**Significant Actions Planned – For Next 3 Months:**

**M-16 – Remedial Action / Risk Assessment:**

- Initiate 100-N remaining sites remediation activities.
- Begin 100-N bioremediation pilot system operation.
- ARRA - Award 100-F remediation subcontract.
- ARRA – Award confirmatory sampling subcontract
- ARRA – Commence 618-10 intrusive characterization.
- Deliver Draft B of the RCBRA report ecological and human health volumes to RL/regulators for review.

**M-89 – 324 Bldg Non-Permitted Mixed Waste Units Closure:**

- Complete 324 SMF Cell, REC C-Cell, and REC Cell ductwork fixative application; complete B-Cell and A-Cell grouting.
- Continue deactivation/decommissioning of 324 support areas.

**M-93 – Reactors Final Disposition:**

- Begin 105N Fuel Storage Basin above-grade demolition.
- Complete 109N SSE structural steel erection.

**M-94 – 300 Area Surplus Facilities Disposition:**

- Begin 327 above-grade demolition.
- Continue shipping gloveboxes from 308 laboratory to Perma-Fix.
- Accept transfer of 307 Basins, 310 TEDF, 340, and 3790 facilities for disposition.

**ERDF:**

- ARRA – Complete Super Cell 9 admix placement.
- ARRA – Start placement of bentonite admix for Super Cell 10.
- ARRA – Receive bids for batch plant.
- ARRA – Complete designs for container, equipment, and truck maintenance shops, and ERDF operations center.

**PERFORMANCE SUMMARY** (includes ARRA)  
**Contract Inception (8/25/05) through May 2010**  
 (\$K)

	IPB		CUMULATIVE			Previous Quarter Comparison			
	BCWS	EAC	BCWS	BCWP	ACWP	SCHEDULE VAR (\$)		COST VAR (\$)	
						Feb	May	Feb	May
D4	659,806	541,682	290,335	354,908	231,910	53,194	64,573	113,622	122,998
Reactor ISS	120,767	113,751	70,720	51,087	48,039	-17,103	-19,633	3,609	3,048
Field Remediation	611,634	646,797	305,827	302,607	264,609	9,055	-3,220	41,131	37,998
Waste Operations	414,039	393,000	173,515	226,379	204,874	34,061	52,864	3,577	21,505
ESFC	52,391	54,814	37,043	38,167	34,532	1,655	1,124	4,003	3,635
Mission/General Support	324,995	444,615	189,077	189,077	190,849	0	0	-3,199	-1,772
Transition	3,979	3,747	3,979	3,979	3,747	0	0	232	232
Contingency	155,991	155,991							
<b>TARGET COST TOTAL</b>	<b>2,343,601</b>	<b>2,354,397</b>	<b>1,070,496</b>	<b>1,166,204</b>	<b>978,560</b>	<b>80,863</b>	<b>95,708</b>	<b>162,976</b>	<b>187,644</b>

**Schedule Variance (PMB): \$95,708K**

- Acceleration of 300 Area and 100-N Area building demolitions.
- Stop-work at KE/KW Reactor ISS (RL direction).
- Accelerated remediation work at 100-D/H burial grounds and accelerated completion of 100-B-14 and 100-C-9; offset by negative variances associated with CLIN 3 and 100-K/300 Area descope, as well as delays at 100-N, 300 Area, and 100-IU-2/6 waste sites.
- Transportation, treatment, and disposal support to accelerated work in FR and D4 Projects.

**Cost Variance (PMB): \$187,644K**

- Significant underruns experienced in 300 Area building characterization, deactivation, and demolition activities.
- 100-D/F/H and 300 Area burial grounds remediation underruns. Partially offset by significant project support costs at all active dig sites.
- Costs have been less than planned due to Waste Operations efficiencies achieved in waste treatment, transportation, and construction. These efficiencies and increased waste volumes have more than offset cost overruns in direct project support.

**ARRA - Performance Summary**  
**April 2009 through May 2010**  
 (\$K)

	IPB		CUMULATIVE			Previous Quarter Comparison			
	BCWS	EAC	BCWS	BCWP	ACWP	SCHEDULE VAR (\$)		COST VAR (\$)	
						Feb	May	Feb	May
RL0041.R1.2 & .3 - ERDF	115,000	100,914	34,864	47,958	39,457	7,646	13,094	2,620	8,501
RL0041.R1.2 - M/G Support	2,095	2,095	2,095	2,095	1,705	0	0	85	390
RL0041.R1.3 -Acc Rem	18993	16505	2225	2678	1043	447	453	351	1,635
RL0041.R2 - 618-10	64,978	64,958	13,848	14,191	16,988	2,273	343	-1,656	-2,797
Contingency	12,795	12,795							
<b>TARGET COST TOTAL</b>	<b>213,862</b>	<b>197,266</b>	<b>53,032</b>	<b>66,922</b>	<b>59,193</b>	<b>10,365</b>	<b>13,890</b>	<b>1,400</b>	<b>7,729</b>

**Schedule Variance (PMB): \$13,890K**

- ERDF equipment purchases and various projects are running ahead of schedule.
- Schedule efficiencies were gained at 100-IU confirmatory sampling sites when several WSRFs were prepared with no sampling or closure documentation necessary.
- Cone penetrometer installation and characterization, as well as soil sampling, are complete. Also, infrastructure design ahead of schedule, and infrastructure construction started ahead of schedule.

**Cost Variance (PMB): \$7,729K**

- ERDF cell construction and disposal upgrades are realizing efficiencies.
- Fewer comments received and streamlining the confirmatory sampling process (e.g., going to WSRFs) have resulted in positive cost variances in several accounts. Also, artificial positive cost variance in the non-site specific support (NSSS) as the budget is level-loaded across the whole activity, but the subcontractor is not scheduled to start for several months.
- 618-10 water line design has expended additional costs evaluating alternatives, and costs for intrusive characterization mobilization were much greater than planned. The extended duration of non-intrusive characterization has resulted in more hotel costs than planned.

## ***RCC Issues***

- Next steps and path forward regarding continued use of RESRAD for chemicals.
- Obtaining approval of 100-D waste site closeout documents.
- Breached 324 B-Cell sump liner. May impact 324 plan and schedule.