



River Corridor Closure Project

Recovery Act Weekly Report

October 6, 2009

Contract DE-AC06-05RL14655

Protecting the Columbia River

Overview

Background Summary of Projects that Washington Closure Hanford (WCH) will accomplish using ARRA funds (Pending definitization of scope and contract modifications).

A. The Environmental Remediation Disposal Facility (ERDF)

ERDF is the hub of the WCH scope of work and supports a major portion of other Hanford Contractor (OHC) waste disposal. Wastes collected from sites around the Hanford complex are brought to ERDF for treatment and disposal. WCH operates the ERDF and is currently using ARRA funds to upgrade and expand its capabilities to meet the needs of Hanford's accelerating mission. This report will provide written and visual evidence, weekly, of this expansion as it happens.

B. The 618-10 Burial Grounds

Long regarded as one of Hanford's worst waste sites are the trenches in 618-10. Using ARRA funds, WCH will characterize the site. Intrusive and non-intrusive techniques will be used, and the subsequent analysis of data will enable the project to pursue remediation of the site safely and effectively.

C. The 618-11 Burial Grounds

Along with 618-10, the 618-11 Burial Grounds are among the biggest challenges faced by WCH using ARRA funds. The 618-11 characterization work will require special care because of its proximity to the Energy Northwest Generating Facility, north of the 300 Area.

D. Remediation of failed Orphan Sites

WCH is employing ARRA funds to clean up many failed Orphan Sites not originally part of its contract. Sites in the 100-F and IU 2&6 segments 1&2 are proposed for waste site remediation in the two year period starting in October 2009.

E. Confirmatory Sampling of other new sites

WCH is proposing to complete the early sampling process of 67 potential waste sites using ARRA funds.

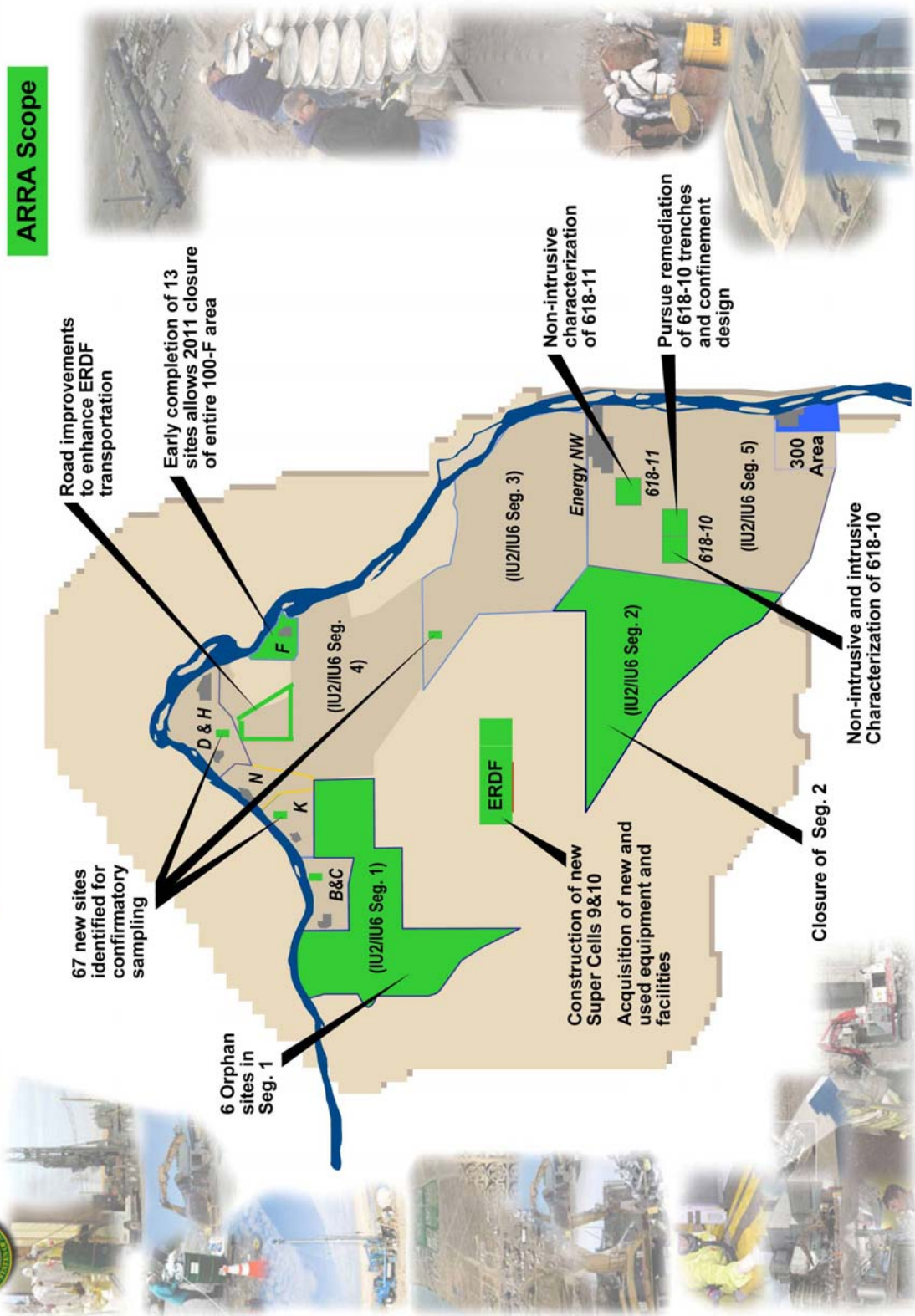
The following figure illustrates the overall scope of WCH's ARRA projects.



Overview (Continued)

River Corridor Cleanup Completion

ARRA Scope



Safety

Safety Accomplishments

As of September 30, 2009, WCH has safely worked over 66,000 hours of ARRA scope with no safety incidents.

Hazard Reductions

WCH's Safety Ownership Program (SOP) was launched as a tool for the River Closure Corridor project to focus on safety values. Safe work principles for all work, including ARRA, are organized under four SOP tenets:

- Tenet 1: Follow the Instruction
- Tenet 2: Ask the Question
- Tenet 3: Fix it Now
- Tenet 4: Own the Result.

WCH continued awareness activities for the 3rd SOP Tenet; *Fix it Now*. This Tenet focuses attention on the importance of addressing issues and problems raised by the workers as they arise. Over the past few weeks, WCH identified the importance of identifying and reporting issues and fully understanding the problem before taking action. The focus this week is Guiding Principle 3 – “Be Part of the Solution.” This principle reinforces the importance of being engaged in the whole process. WCH stresses that working safely depends on those who know the work best — the entire work team — to lend their expertise and experience, to identify problems, and to come up with the right fix. This includes evaluating the effectiveness of proposed solutions and looking at the impacts to the work being done.

To support engagement of the entire team, WCH senior managers personally greeted workers at several River Corridor Closure site locations at the start of the morning shifts, thanking them for their engagement in the Safety Ownership Program.



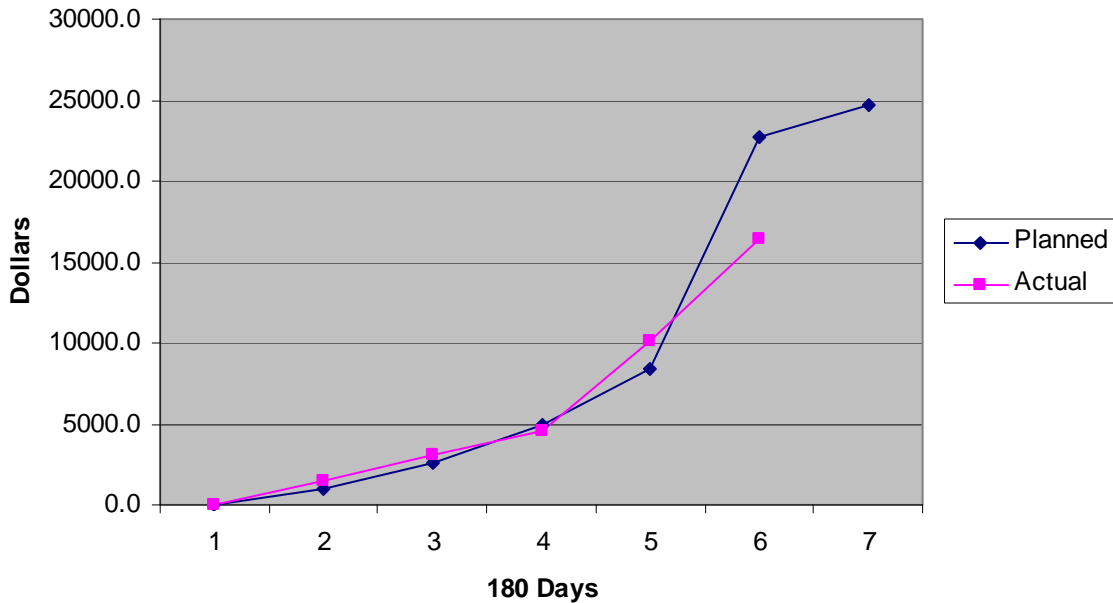
Cost

**180 Day Work Plan
Monthly Estimated Cost Plan Summary (K) Cumulative
Actuals as of September 30, 2009**

WBS	Scope		Apr 8th	May	Jun	Jul	Aug	Sep	Oct 8th
1.03.14.75.25-27	618-10 NIC/TRP	Planned	0.0	123.8	258.4	475.0	778.2	1466.6	1636.8
		Actual	0.0	392.4	648.1	1057.6	1873.4	2913.5	
		Planned %			16%	29%	48%	90%	
		Actual %			40%	65%	114%	178%	
1.04.01.01.31	Super Cells 9&10 Construction	Planned	0.0	252.9	609.0	1498.1	2505.6	11582.5	12028.1
		Actual	0.0	753.9	1236.6	1633.8	3049.4	5259.8	
		Planned %			5%	12%	21%	96%	
		Actual %			10%	14%	25%	44%	
1.04.01.01.37	ERDF Equipment Upgrades	Planned	0.0	0.0	0.0	0.0	0.0	1069.5	1515.1
		Actual	0.0	0.0	0.0	29.5	1909.7	3851.7	
		Planned %			0%	0%	0%	71%	
		Actual %			0%	2%	126%	254%	
1.04.01.01.3B	ERDF Facility Upgrades	Planned	0.0	0.0	929.2	2191.0	4326.0	7774.7	8637.0
		Actual	0.0	0.0	509.8	861.0	2150.1	3086.1	
		Planned %			11%	25%	50%	90%	
		Actual %			6%	10%	25%	36%	
1.06.01.01.02	Mission/General Support	Planned	40.3	571.5	766.7	778.7	791.5	809.1	813.5
		Actual	40.3	351.5	739.4	958.8	1141.1	1363.8	
		Planned %			94%	96%	97%	99%	
		Actual %			91%	118%	140%	168%	
180 Day Work Plan	Total	Planned	40.3	948.2	2563.3	4942.8	8401.3	22702.4	24630.5
		Actual	40.3	1497.8	3133.9	4540.7	10123.6	16474.9	
		Planned %			10%	20%	34%	92%	
		Actual %			13%	18%	41%	67%	

Note: NTE of \$123M.

180 Day Work Plan (Planned vs Actual) Cumulative



WCH will report CPI and SPI at 1.00 until the ARRA baseline is implemented.



ERDF

Super Cells 9 and 10 Construction

Excavation of super cell 9 continues. To date, the subcontractor has excavated 700,656 cubic yards of the estimated 1.7 million cubic yards (includes 263,000 c:y of stockpile removal).

A request for proposals was issued this week for excavation of super cell 10 and construction of super cells 9 and 10. Valued at more than \$30 million, award of the subcontract is expected in February 2010.

Installation of the boundary fence for super cells 9 and 10 is continuing and will be completed in mid-October.



ERDF (Continued)



More than 8,700 feet of chain link fencing is being installed around the perimeter of the new Environmental Restoration Disposal Facility super cells 9 and 10.

Upcoming Activities

- Continue excavation of super cell 9.
- Complete fence installation.
- Work on the scale continues, with placing of the scale on the concrete pads.

ERDF (Continued)

- Receive first of four bulldozers.
- Complete the new ERDF access road.

Facility and Equipment Upgrades

Waste containers from Rule Steel of Caldwell, Idaho, continued arriving this week. So far, 15 of 150 containers have been accepted at the Environmental Restoration Disposal Facility. In addition, three waste transport trucks were placed in service and three more arrived from the vendor. Peters & Keats of Lewiston, Idaho, will deliver a total of 20 new trucks.



Delivery of new waste containers will continue at a rate of about three per day through mid-December. Rule Steel has delivered 15 of 150 so far.

Work is nearing completion on the container transfer area (CTA) where electrical installation continues. In addition, magnesium chloride, used for dust control, was applied and ecology blocks were placed near the edges of the CTA and access roads. Work on the new scale continues.

Also in the final stages of completion is the new access road into ERDF. The utility poles and lighting were installed and asphalt striping was completed.

ERDF (Continued)



Installation of lighting for the new access road to the Environmental Restoration Disposal Facility is underway, and striping was completed.

Video

[Click here to view the video showing excavation of super cell 9. Super cell 9, when finished, will be 70 feet deep by 500 feet long by 1,000 feet wide.](#)

618-10 Burial Ground

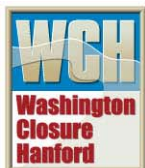
618-10 Non-Intrusive Characterization/Trench Remediation Project

The project start-up review continues for the nonintrusive characterization activity. The work is expected to start with installation of the cone penetrometers in mid-October.

Project staff are placing the final touches on the Waste Streams Hazards and Controls Evaluation. The report analyzes what is known to be in the burial ground, what could be expected based on 15 years of field remediation at Hanford, and identifies potential risks and appropriate hazard mitigation.

For most of Hanford's waste sites and burial grounds, little documentation is available on what was disposed, including at the 618-10 Burial Ground. A critical effort in developing a remediation plan is conducting a document review. WCH assembled a team charged with locating and retrieving historical documents related to operations in Hanford's 300 Area, the 618-10 Burial Ground, and any other documents that could have a possible bearing on potential contents of the burial ground. The team was able to locate new documents that were not discovered in past searches during earlier design solution activities.

The record search provided a greater understanding of the potential hazards present in the burial ground, which paves the way for properly tailored hazard controls. Without the data, it is possible to over-estimate the potential hazards, resulting in large costs for unnecessary controls.



618-10 Burial Ground (Continued)



Extensive document searches and reviews coordinated by Linda Montgomery (left) and Bev Frasch (right) have improved remediation planning strategies at the 618-10 Burial Ground, one of Hanford's most hazardous cleanup sites.

The team developed and maintains a record-keeping system that allows retrieval of thousands of records, should re-examination be required. They coordinated a timely review and retrieval of records from the offsite Federal records storage facility and the Hanford records holding area.

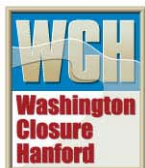
618-10 Burial Ground (Continued)

The team's work enabled such noteworthy accomplishments as:

- Developing an inventory of radioactive and hazardous constituents in the 618-10 trenches.
- Gaining a better understanding of what wastes may be characterized as transuranic versus low-level or mixed wastes.
- Developing the most thorough understanding to date of potential waste volumes to be encountered during remediation.

Upcoming Activities

- Conduct a demonstration to verify geophysical identification of VPU center-points.
- Begin surveying the 618-10 trenches to determine insertion points for cone penetrometers.
- Complete radiological characterization project startup review activities.
- Begin installation of cone penetrometers.
- Conduct value engineering to determine if a confinement structure is needed to support intrusive characterization or remediation of the trenches or VPUs.



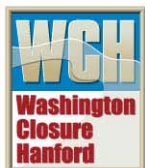
Mission Support/General Support

Accomplishments

- WCH and DOE-RL completed negotiations of the Phase I Technical and Cost Proposal (WCH-339, Rev. 1). WCH received the executed contract modification and has started reconciliation to the performance management baseline.
- In the Recovery Act contract modification, WCH received notice to proceed and limited budget authority to begin some of the Phase II scope. WCH, in accordance with their Earned Value Management (EVMS) procedures, has authorized the scope to begin.
- WCH continued work on finalizing the *Vision 2015 Roadmap* and incorporating it into FY10 and FY11 Contractor Performance Planning to support the DOE's goal of reducing the site clean-up footprint.

Upcoming Events

- Support DOE independent reviews of ARRA Phase II Technical and Cost Proposal (WCH-355).
- Continue to work on finalizing the *Vision 2015 Roadmap* for planned issuance in October 2009.
- WCH will submit the Recovery Act Quarterly Report, due October 10, 2009.



General

Job Fairs

Refer to the EM Recovery Act Jobs Data Call spreadsheet for Jobs Creation/Saved as of September 25, 2009.

Hiring Actions

Jobs Created as of 9-25-09

	Subcontractors	ROS	WCH	Total
Weekly	4	0	0	4
Total To Date	120	8	20	148

Jobs created represent new lives touched by ARRA, and are not expressed in full-time equivalents (FTEs). Refer to the weekly EM Recovery Act Jobs Data Call spreadsheet for detailed report of Jobs Creation/Saved as of September 25, 2009.

Mentoring/Training

On his first official day with WCH, President and General Manager Neil Brosee issued a communication to WCH employees and subcontractors that included his personal message on how all work (including ARRA) is conducted at WCH:

For us to keep up the cleanup momentum, it's important to maintain the safety culture that you have worked to establish during the past two years. I want to underscore that safety is number one on my priority list. As a veteran project manager, I've learned over the years that success depends upon a workforce that believes in disciplined operations and teamwork. That's why the Integrated Safety Management System and the Voluntary Protection Program are important to our line of work. Additionally, I see the Safety Ownership Program (SOP) principles right in line with my particular priority list of personal accountability, procedure compliance, technical inquisitiveness, and willingness to stop work.

WCH and its subcontractors have an important cleanup mission. We're starting work in some of the most hazardous and high risk projects at the Hanford site. Field Remediation work such as the 618-10 and 11 Burial Grounds and the 324 building D&D work will require extra attention to detail and working safely. Based on your past performance, I have no doubt that we are prepared to work these higher risk challenges with the appropriate level of discipline and safety.

Media, Visits, Press Releases

A media event is anticipated by late October on ARRA funded work at the 618-10 Burial Ground. Workers will be installing cone penetrometers (tubes) for characterization of the highly contaminated site.

Contracting Actions

- Solicited more than 20 potential ERDF Super Cells 9 and 10 construction contractors, pre-qualified 2 out of 7 respondents to the Request for Proposal.
- Two additional shuttle trucks were received.



General (Continued)

- Leases by our subcontractor for CAT Loader, CAT telehandler, 12,000 gallon water tower and CAT 320L excavator were converted to purchases.
- Shipments of 40 turnbuckles (side winders) per week continue until all 300 are received.
- Awarded contract for lean-to shed for the new scale house.
- One D9T used Caterpillar dozer was delivered and positioning system is being installed.
- Continue to receive twelve new IP-1 containers per week until all 150 ordered are received.
- Awarded contract for three air compressors with two week lead time.
- Awarded contract for two light plants with 2 to 5 week lead time.

