

Meeting Notes

Annual Meeting Between the U.S. Department of Energy, Office of River Protection (DOE-ORP) and the State of Washington, Department of Ecology (Ecology) to Discuss Interim Measures Completed in Fiscal Year 2013 and Planned for Fiscal Year 2014

Meeting Date: Wednesday June 12, 2013
Location: Ecology, Conference Rm. 3B

Purpose: Fulfill Hanford Federal Facility and Consent Order (HFFACO) commitment M-045-56, "to meet yearly...for the establishment of Additional Agreement Interim Measures."

Attendees: Jeff Lyon (Ecology), Maria Skorska (Ecology), Jim Alzheimer (Ecology), Mike Barnes (Ecology), Jeff Ayres (Ecology), Doug Hildebrand (DOE), Dan Parker (Washington River Protection Solutions[WRPS]), Dan Glaser (WRPS), Cindy Tabor (WRPS), Harold Sydnor (WRPS), Susan Eberlein (WRPS), Mike Greene (WRPS)

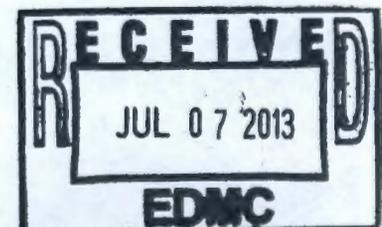
Topics Discussed:

Actions Completed in FY2013:

1. HFFACO Milestone M-045-20 Interim Measures Work Plan
The Work Plan was transmitted to Ecology prior to the December 31, 2012 milestone date. Ecology provided comments, which were addressed, and a final plan transmitted to Ecology on March 18, 2013.
2. HFFACO Milestone M-045-21 Sample and Analysis Plan (SAP)
The SAP for TX Farm was transmitted to Ecology prior to the March 31, 2013 milestone date. Ecology provided comments, which were addressed, and a final plan transmitted to Ecology on May 30, 2013.

Actions Ongoing in FY2013:

1. Interim measures work plan activities at SX Farm –
 - Status of the work was provided: The designs of the above ground pore-water extraction system and below ground components are nearing completion. The direct-push installation of the bore holes is expected to start June 13.
 - Maria Skorska asked when Ecology would be able to see the designs. Dan Parker took the action to bring design information to the next monthly status meeting for the Interim Measures Work Plan (scheduled for June 19).
 - The system should be ready to begin the field test approximately October. The field test is expected to last 2 months. Evaluation of the data and reporting will be performed. Activities are on schedule to provide the report by the M-045-22-T03 target date of 07/31/2014.
2. Interim measures work plan activities at U Farm –



- Status of the work was provided: Data collection for the 2-dimensional resistivity work (long lines, mostly outside the farm) has been completed. Data collection for the 3-dimensional work (multiple surface and depth electrodes inside the farm) is about 10-20% complete, and expected to complete around the end of June. Data analysis and reporting will occur in FY2014, and the final report is on schedule for the M-045-22-T02 target date of 04/30/2014.
 - Jeff Lyon asked if work had been done to correlate the results of electrical resistivity studies with other measurements. Dan Glaser indicated that the topic has been addressed in multiple individual reports (previously provided to Ecology), as well as in a presentation provided at a Groundwater interface meeting. Maria Skorska requested that the presentation be provided again, for others at Ecology who missed the previous presentation. Jeff Lyon asked that DOE consider providing a single, comprehensive report that evaluated all the correlation data available for electrical resistivity and other types of measurements.
 - Mike Barnes noted that evaluation of data should also include discussion of what has been learned during re-analysis of data using improved methods, as was done at C farm.
 - Dan Glaser took an action to schedule a presentation on the correlation work to date.
 - Doug Hildebrand will evaluate the potential for providing a single comprehensive report on the correlation work to date.
 - Dan Glaser will provide a copy of technical documents to Maria Skorska to support preparation of material for discussion with interested parties.
3. Interim measures work plan activities at TX Farm –
- Status of the work was provided: Direct push at the first location started on June 11. Pushing, logging and sampling of the first 8 locations are planned for this fiscal year. Discussions will be held with Ecology on the results of the first 8 locations prior to selecting the final 4 locations. Sample analysis and reporting will occur in FY2014, and the final report is on schedule for the M-045-22-T01 target date of 09/30/2014. Quick turn sample analysis results will be provided to Ecology as they become available.
 - Mike Barnes requested that the group discuss the criteria for selecting the final 4 direct push locations, considering emerging information from the TX farm leak loss assessment, and concerns about potential in-leakage of water into tanks.
 - A meeting will be set for purposes of discussing the selection criteria once the TX leak loss evaluation report is complete. The monthly Interim Measures Work Plan meeting could be used for this purpose if appropriate.
4. Status updates on other actions:
- Meeting to be held with Site Water Purveyor – An effort to set this meeting is underway, with Chris Kemp taking the lead.
 - Maintenance of T Farm Interim Surface Barrier – In response to a question from Michelle Hendrickson, a paper was provided (RPP-54796, attached) that shows repair of the large tear to the T farm interim surface barrier. About 75-80% of the needed repairs were completed last summer before the weather got too cold. The additional repairs are being done this year. It was requested that the repairs continue to be tracked.

Actions Proposed for FY2014:

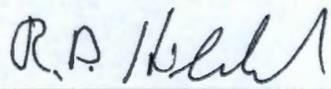
1. Complete Interim Measures Work Plan activities. All activities are currently expected to occur according to the schedule in the work plan.
2. Deploy a field test version of a beta probe at TX farm and report results.
 - A proposal for field test of a prototype beta probe has been developed. A schedule of deployment, evaluation and reporting activities will be provided to Ecology by September 30, 2013.
 - The test will likely involve at least 2 different locations with different concentrations of technetium, based on sample analysis and probe detection capabilities. Ideally, the probe will be deployed over a vertical interval that is larger than the interval from which samples were collected.

Jeff Lyon requested that an additional action be taken to brainstorm interim barrier needs for water intrusion reduction and other applications related to potential tank leaks.

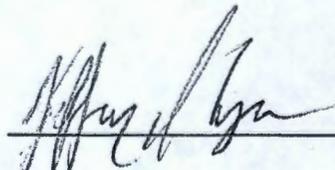
Action Items:

- Bring SX pore water extraction system design information to the next Interim Measures Work Plan status meeting (June 19). (Dan Parker)
- Schedule a presentation on the electrical resistivity correlation work to date. (Dan Glaser)
- Evaluate the potential for providing a single comprehensive report on the electrical resistivity correlation work to date. (Doug Hildebrand)
- Provide a copy of electrical resistivity technical documents to Maria Skorska to support preparation of material for discussion with interested parties. (Dan Glaser)
- Set meeting for discussing criteria for selection of final 4 direct push location in TX farm. (Cindy Tabor)
- Provide periodic status of repairs to interim surface barriers (this could be done in the monthly Interim Measures Work Plan meetings). (Dan Parker)
- Provide a schedule for the beta probe prototype field test and reporting. (Susan Eberlein)
- Schedule a meeting to brainstorm interim barrier needs for water intrusion reduction and other applications related to potential tank leaks. (Susan Eberlein)

Concurrence:

 7-3-2013

R. D. Hildebrand, DOR Date

 7-8-13

J. J. Lyon, Ecology Date

DOCUMENT RELEASE FORM

(1) Document Number: RPP-54796		(2) Revision Number: 0	(3) Effective Date: 3/18/2013
(4) Document Type: <input type="checkbox"/> Digital Image <input type="checkbox"/> Hard copy <input checked="" type="checkbox"/> PDF <input type="checkbox"/> Video		(a) Number of pages (including the DRF) or number of digital images: 4	
(5) Release Type: <input checked="" type="checkbox"/> New <input type="checkbox"/> Cancel		<input type="checkbox"/> Page Change	<input type="checkbox"/> Complete Revision
(6) Document Title: Interim Surface Barrier Inspection and Maintenance FY2012		(7) USQ No.: R- <input checked="" type="checkbox"/> N/A	
(8) Change/Release Description: Initial release		USQ Evaluator _____ Sign/Date _____	
(9) Change Justification: N/A			
(10) Associated Structure, System, and Component (SSC) and Building Number:	(a) Structure Location: 241-T Tank Farm	(c) Building Number: N/A	(e) Project Number: N/A
	(b) System Designator: N/A	(d) Equipment ID Number (EIN): N/A	
(11) Impacted Documents:	(a) Document Type	(b) Document Number	(c) Document Revision
	N/A	N/A	N/A
(12) Approvals:			
(a) Author (Print/Sign): R. B. Hall <i>R. Brandon Hall</i>		Date: 3/14/13	
(b) Reviewer (Optional, Print/Sign): D. R. Glaser <i>[Signature]</i>		Date: 3/14/13	
(c) Responsible Manager (Print/Sign): S. J. Eberlein <i>[Signature]</i>		Date: 03/14/13	
(13) Distribution:			
(a) Name	(b) MSIN	(a) Name	(b) MSIN
R. B. Hall	T4-70		
D. R. Glaser	H6-13		
S. J. Eberlein	H6-13		
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			Release Stamp
			DATE: Mar 18, 2013 
(14) Clearance	(a) Cleared for Public Release <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	(b) Restricted Information? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	(c) Restriction Type:
(15) Clearance Review (Print/Sign): <div style="border: 1px solid black; padding: 5px; display: inline-block;"> APPROVED <small>By Julia R. Raymer at 9:25 am, Mar 18, 2013</small> </div>			Date:

Interim Surface Barrier Inspection and Maintenance FY2012

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U.S. Department of Energy Contract DE-AC27-08RV14800

EDT/ECN: DRF

UC:

Cost Center:

Charge Code:

B&R Code:

Total Pages: 4

Key Words: ISB, Interim Surface Barrier, maintenance, subsurface contamination

Abstract: Interim surface barriers (ISBs) are interim measures placed over known areas of underground contamination. The barriers are impermeable surfaces meant to reduce infiltration of meteoric water. Meteoric water (precipitation in the form of rain or snow) is the primary driving force for migration of contamination towards groundwater. Some minor deterioration was detected at the 241-T Tank Farm ISB in March and September 2010, but it was not considered significant enough for corrective maintenance. By the following year deterioration had progressed and a work package was established in August 2011. The repair work was not performed until September 2012 due to temperature restrictions. Figures 1 and 2 are examples of deterioration found on the ISB. Figures 3 and 4 show examples of repairs completed in September 2012. The largest repair was located on the north end of the barrier near tank 241-T-103.

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APPROVED

By Julia R. Raymer at 9:26 am, Mar 18, 2013

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Figure 1. Tears and Delamination Found on the 241-T Tank Farm Barrier.



Figure 2. Tears and Delamination Found on the 241-T Tank Farm Barrier.



Figure 3. Repair of the Largest Tear Found to Date Located on the North End of the Barrier near Tank 241-T-103.



Figure 4. Typical Repair to the Barrier.

