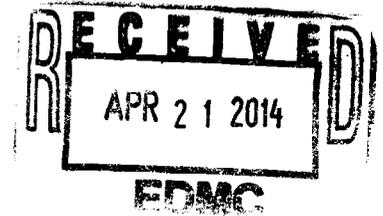


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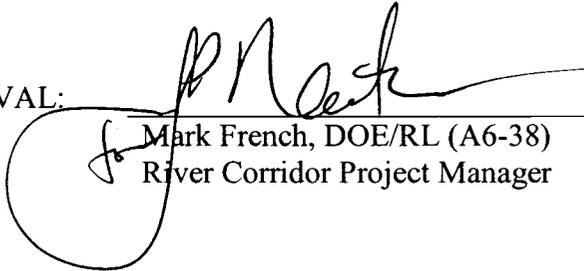


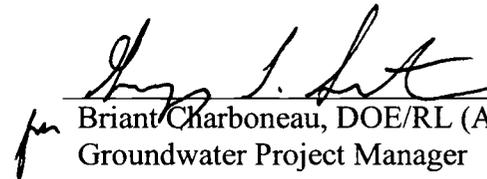
100/300 AREA UNIT MANAGER MEETING
ATTENDANCE AND DISTRIBUTION

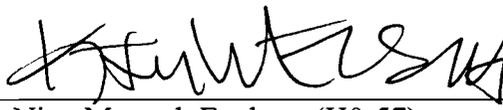
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Gadbois, Larry E	Gadbois.larry@epa.gov	B1-46	EPA
Hadley, Karl A	karl.hadley@wch-rcc.com	H4-21	WCH

100/300 AREA UNIT MANAGERS MEETING
APPROVAL OF MEETING MINUTES

March 13, 2014

APPROVAL:  Date 4/10/14
for Mark French, DOE/RL (A6-38)
River Corridor Project Manager

APPROVAL:  Date 4-10-14
for Briant Charboneau, DOE/RL (A6-33)
Groundwater Project Manager

APPROVAL:  Date 4/10/14
for Nina Menard, Ecology (H0-57)
Environmental Restoration Project
Manager

APPROVAL:  Date 4-10-14
Laura Buclow, Rod Lobos, or Christopher
Guzzetti, EPA (B1-46)
100 Area Project Manager

APPROVAL:  Date 4-10-14
for Larry Gadbois, EPA Rod Lobos
(B1-46)
300 Area Project Manager

100 & 300 AREA UNIT MANAGER MEETING MINUTES

Groundwater and Source Operable Units; Facility Deactivation, Decontamination, Decommission, and Demolition (D4); Interim Safe Storage (ISS); Field Remediation (FR); Mission Completion; and 100-K Sludge Treatment Project and 100-K Facility Demolition and Soil Remediation Projects

March 13, 2014

ADMINISTRATIVE

- Next Unit Manager Meeting (UMM) – The next meeting will be held April 10, 2014, at the Washington Closure Hanford (WCH) Office Building, 2620 Fermi Avenue, Room C209.
- Attendees/Delegations – Attachment A is the list of attendees. Representatives from each agency were present to conduct the business of the UMM.
- Approval of Minutes – The February 13, 2014, meeting minutes were approved by the U.S. Environmental Protection Agency (EPA), Washington State Department of Ecology (Ecology), and U.S. Department of Energy, Richland Operations Office (RL).
- Action Item Status – The status of action items was reviewed and updates were provided (see Attachment B).
- Agenda – Attachment C is the meeting agenda.

EXECUTIVE SESSION (Tri-Parties Only)

An Executive Session was not held by RL, EPA, and Ecology prior to the March 13, 2014, UMM.

100-K AREA (GROUNDWATER, SOILS, D4/ISS)

Attachment 1 provides status and information for groundwater. Attachment 2 provides status and information for Field Remediation activities. Attachment 3 provides a schedule for Field Remediation at the 100-K Area. Attachment 4 provides a status of the 100-K Sludge Treatment Project and the 100-K Facility Demolition and Soil Remediation projects. No issues were identified and no agreements or action items were documented.

100-B/C AREA (GROUNDWATER, SOILS, D4/ISS)

Attachment 1 provides status and information for groundwater. Attachment 2 provides status and information for Field Remediation activities. Attachment 5 provides a schedule for Field Remediation at 100-B/C Area. Attachment 6 provides status and information for D4/ISS activities at 100-N and 100-B. No issues were identified and no agreements or action items were documented.

100-N AREA (GROUNDWATER, SOILS, D4/ISS)

Attachment 1 provides status and information for groundwater. Attachment 2 provides status and information for Field Remediation activities. Attachment 6 provides status and information for D4/ISS activities at 100-N and 100-B. Attachment 7 provides the 100-N Area FR Schedule. Attachment 8 provides a chart showing biovent well sample results for 199-N-171 and 199-N-169. No issues were identified and no action items were documented.

Agreement 1: Attachment 9 provides Ecology's concurrence to place clean inert debris from various 100-N locations into the 182-N subgrade foundation prior to backfill of the area.

Agreement 2: Attachment 10 provides DOE's and Ecology's concurrences removal and sampling of the remaining section of the 100-N-84:2 pipe section remaining on the river road south of the old 181-N Intake Structure.

Agreement 3: Attachment 11 provides DOE's and Ecology's concurrences of the "Request to Verification Sample and Backfill Immediately Portions of the 100-N-84 Pipeline Subsites that Cross Under Established Roadways" at the 100-N Area.

Agreement 4: Attachment 12 provides DOE's and Ecology's concurrences to unload and repackage lead debris accumulated in an ERDF can at 100-N to meet ERDF waste acceptance criteria.

Agreement 5: Attachment 13 provides DOE's and Ecology's approvals of the final contour regarding plan for the area west of N reactor.

Agreement 6: Attachment 14 provides EPA's concurrence with a plan for removing and disposing of a section of an abandoned irrigation line at 100-N that is surrounded with asbestos inside a metal cover.

Agreement 7: Attachment 15 provides DOE's and Ecology's concurrences for additional sampling, remediation, and resampling of the 100-N-100 waste site.

100-D & 100-H AREAS (GROUNDWATER, SOILS, D4/ISS)

Attachment 1 provides status and information for groundwater. Attachment 2 provides status and information for Field Remediation activities. Attachment 16 provides the Field Remediation Schedule for 100-D and 100-H. No issues were identified and no action items were documented.

Agreement 1: Attachment 17 provides EPA's non-contiguous onsite approval for removing mercury float switches from the septic holding tanks at 100-K and 100-H moving the switches to a mercury recycling drum at the 100-D Area.

100-F & 100-IU-2/100-IU-6 AREAS (GROUNDWATER, SOILS, D4/ISS)

Attachment 1 provides status and information for groundwater. Attachment 2 provides status and information for Field Remediation activities. Attachment 18 provides the Field Remediation Schedule for IU-2/6. No issues were identified and no action items were documented.

Agreement 1: Attachment 19 provides DOE's and EPA's approvals to treat 600-331 lead contaminated soil in accordance with the "Treatment Plan and Protocol for the Treatment of Lead-Contaminated Soils, WCH-252, Rev. 2."

300 AREA – 618-10/11 (GROUNDWATER, SOILS)

Attachment 1 provides status and information for groundwater. Attachment 2 provides status and information for Field Remediation activities. No issues were identified and no agreements or action items were documented.

300 AREA - GENERAL (GROUNDWATER, SOILS, D4/ISS)

Attachment 1 provides status and information for groundwater. Attachment 20 provides status of the 300 Area Closure Project activities. No issues were identified and no agreements were documented.

Action Item 1: EPA requested that DOE present a briefing on the new DOE beryllium posting requirements for worker protection.

MISSION COMPLETION PROJECT

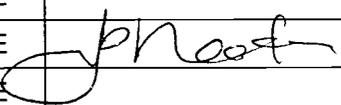
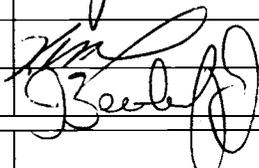
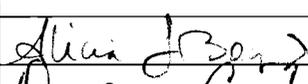
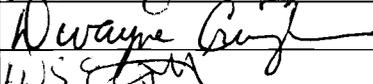
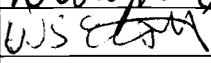
Attachment 21 provides status and information regarding the Long-Term Stewardship, the 300 Area Final Action ROD RDR/RAWP, and a Document Review Look-Ahead. No issues were identified and no agreements or action items were documented.

Attachment A

100/300 AREA UNIT MANAGER MEETING

ATTENDANCE AND DISTRIBUTION

March 13, 2014

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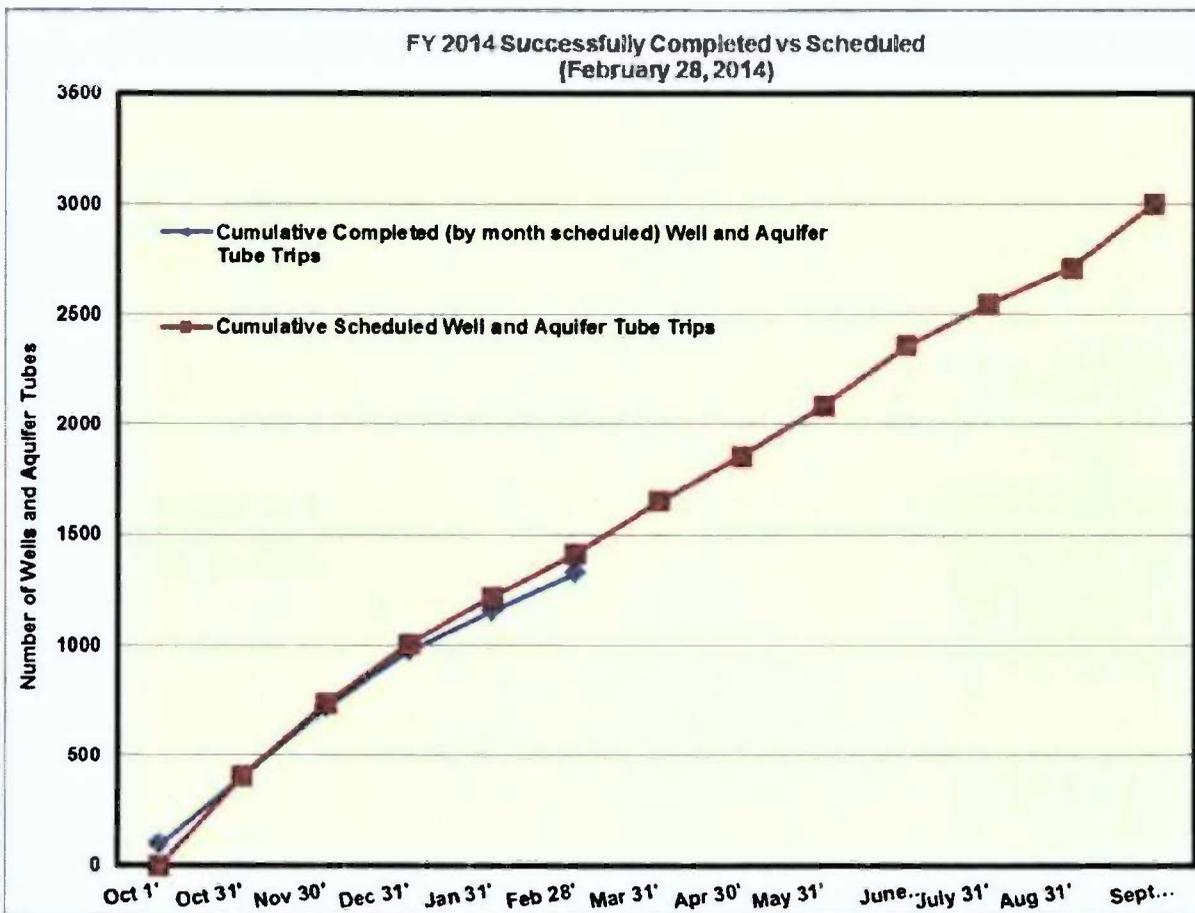
**100/300 Areas Unit Managers Meeting
March 13, 2014**

General information on Remedy Selection & Implementation

Hanford's 2014 overall Site groundwater monitoring program (River Corridor and Central Plateau) has 3,001 sample trips scheduled for collection. During February 2014 (month five), the program successfully completed 159 sampling trips of the 195 scheduled and also completed 54 trips that were scheduled for the period of October through January. In addition, 1 trip from FY2013 was completed making the February total successful trips 214. Therefore, 1,330 total sample trips were performed successfully of the 1,416 scheduled, from October to February.

The specific wells, aquifer tubes and spring sampled in the river corridor areas during February 2014 are listed in Table 1. Table 2 presents the samples for the river corridor only that were not successfully completed in February. Sample trips scheduled for collection in March 2014 are listed in Table 3.

The sampling results are available in HEIS and can be accessed from the Environmental Dashboard Application which can be accessed from the HLAN at <http://environet.rl.gov/eda> or from the internet at <http://environet.hanford.gov/eda>.



**100/300 Areas Unit Managers Meeting
March 13, 2014**

100-KR-4 Groundwater Operable Unit – Bert Day/Chuck Miller/Randy Hermann

- CERCLA Process Implementation
 - RI/FS and Proposed Plan: The documents are on hold pending 100-K East Reactor waste site characterization wells (116-KE-3 and UPR-100-K-1) and modeling. EPA has stipulated that these results are required to be incorporated into the RI/FS prior to Rev. 0 signatures.
 - RD/RAWP, Monitoring Plan, and Operations and Maintenance Plan: Addressing RL comments.
- Remedial Actions & System Modifications
 - Operations continue at KX, KR-4, and KW pump-and-treat systems. February 2014 performance:
 - The systems treated 42.85 million gallons.
 - The system removed 3.47 kg of hexavalent chromium.
 - Completed construction and final development of well 199-K-205, which will be a high volume high concentration extraction well at the KW head house.
 - Initiated construction of well 199-K-206 which is planned as an injection well for the KW P&T.
- Monitoring and Reporting
 - Nothing new to report.

**100/300 Areas Unit Managers Meeting
March 13, 2014**

100-BC-5 Groundwater Operable Unit – Phil Burke/Mary Hartman

(M-015-79 due 12/15/2016, Submit CERCLA RI/FS Report and Proposed Plan for the 100-BC-1, 100-BC-2 and 100-BC-5 Operable Units for groundwater and soil.)

- CERCLA Process Implementation:
 - Drilling of new wells is complete. Well acceptance is in progress and will be sampled after they are added to the well access list.
- Monitoring & Reporting
 - Hyporheic sampling points (HSPs): The 14 shallow HSPs were sampled for Cr(VI) in February (Figure BC-1). The results are consistent with previous months with the following two exceptions. First, the Cr(VI) concentration dropped in C8844 and appears to be not representative. The specific conductance of the water plummeted during sampling, suggesting a broken line. This will be investigated in March and if the tube cannot be repaired, we will consider sampling the adjacent 1-meter HSP (C8845) instead. Second, the Cr(VI) was higher than previously measured in the three HSPs farthest downstream (C8859, 60, and 61). These samples were diverted from WSCF to an offsite lab, and there was a large difference between filtered and unfiltered Cr(VI) results, which is unusual. The data will be reviewed to attempt to account for the discrepancy. Data logger information from the HSPs and the river i from late October through mid-February is under evaluation.
 - Well 199-B4-14 was sampled in February; data are not yet available.
 - Grab samples were collected from new, shallow wells 199-B5-10 and 199-B5-12 after well development. Figure BC-2 illustrates results, compared to results of characterization samples in the adjacent, deeper wells.

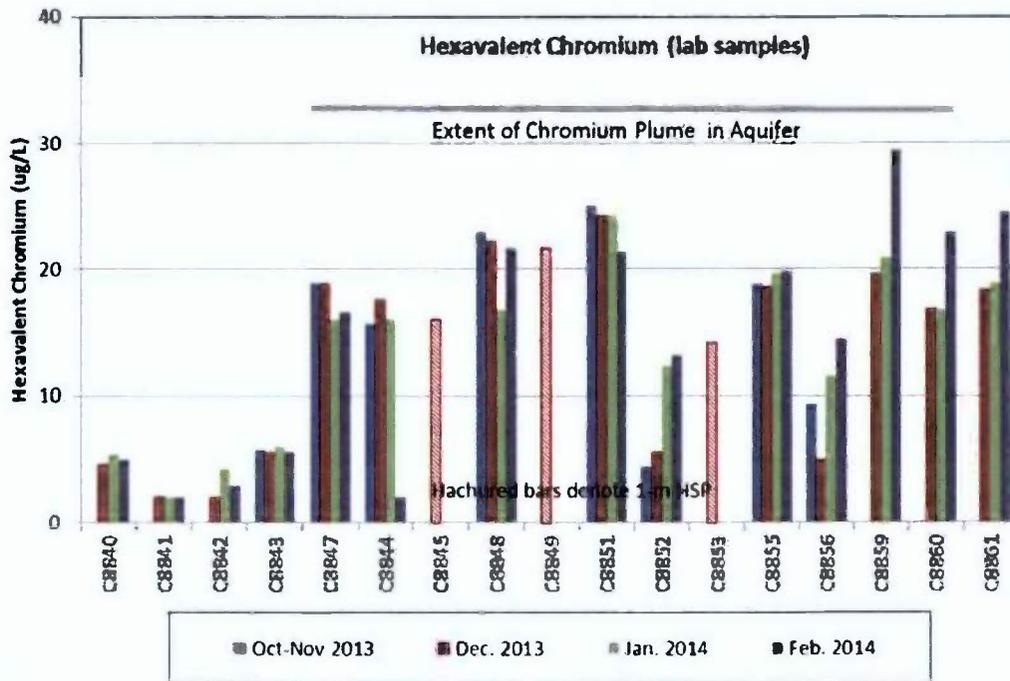


Figure BC-1. Hexavalent Chromium in 100-BC Hyporheic Sampling Points. Bars indicate average of filtered, unfiltered, and replicate samples where available

100/300 Areas Unit Managers Meeting
 March 13, 2014

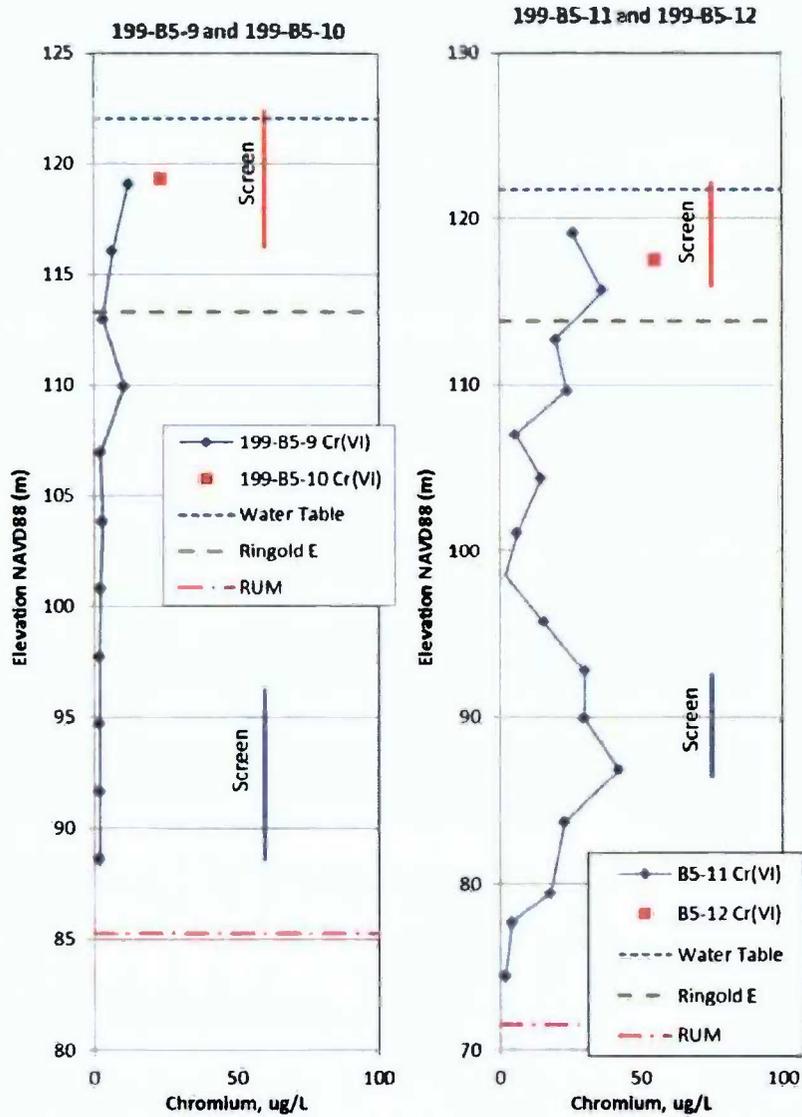


Figure BC-2. Comparison of Grab Samples from Shallow Wells to Characterization Data from Adjacent, Deep Wells

**100/300 Areas Unit Managers Meeting
March 13, 2014**

100-NR-2 Groundwater Operable Unit – Bill Faught/Virginia Rohay

- CERCLA Process Implementation:
 - The Draft A RI/FS Report (DOE/RL-2012-15) and Proposed Plan (DOE/RL-2012-68) were transmitted to Ecology on June 24, 2013, completing TPA milestone M-015-75. Ecology comments on the RI/FS report were received on October 2, 2013. Preliminary responses and redline changes have been prepared to Ecology's comments on for Chapters 1 through 5.
 - Rev. 1, Draft A of the Remedial Design/Remedial Action Work Plan (DOE/RL-2001-27) is being reviewed by Ecology to support the interim ROD amendment and field work to finish at least 1,000 feet of barrier injections this year.
 - The construction and performance report is being prepared on the apatite barrier wells completed in 2011 in accordance with the design optimization study.
- Monitoring & Reporting:

Background- Aquifer tubes C7934, C7935, and C7936 are located adjacent to one another, with screens at depths of 14.41 ft (C7934), 18.75 ft (C7935), and 29.19 ft (C7936). The locations of aquifer tubes C7934, C7935, and C7936 are shown on Figure 100NR2-1. Samples were collected from these aquifer tubes on October 7, 2013, as part of routine annual sampling of aquifer tubes. Both the November and the December sampling events were missed because of the 100-BC-5 sampling and resource limitations. Results for samples collected on January 28, 2014 have been received. The samples scheduled for February were collected on February 13. The next samples are scheduled for March per Table 3 below.

- Tritium: Concentrations of tritium increased in all three aquifer tubes to 150,000 pCi/L (C7934), 140,000 pCi/L (C7935), and 72,000 pCi/L (C7936) (Figure 100NR2-2). The increase in the tritium concentrations is likely due to existing contamination that was mobilized by dust suppression water during Interim Remediation in 2012/2013. Field activities are anticipated to continue through February 2014 (backfilling predominantly).

- Strontium-90 concentrations measured in all three aquifer tubes were consistent with concentrations measured in October 2013 (Figure 100NR2-3). Strontium-90 concentrations are higher in the shallow (C7934) and mid-depth (C7935) aquifer tubes; the shallow tube shows slight downward trend, and the mid-depth tube shows a slight upward trend (Figure 100NR2-4). The strontium-90 concentrations in the deep (C7936) aquifer tube show a slight upward trend. These concentrations are consistent with the conceptual site model that the strontium-90 concentrations will exceed the drinking water standard for an extended period of time.

Summary - Based on information indicating that field remedial actions will continue for only one more month it is recommended that aquifer tubes C7934, C7935, and C7936 be sampled monthly through April and then a final data assessment be performed.

- The next event for CERCLA and RCRA sampling is scheduled for March 2014.

100/300 Areas Unit Managers Meeting
March 13, 2014



Figure 100NR2-1. Locations of Aquifer Tubes C7934, C7935, and C7936.

100/300 Areas Unit Managers Meeting
March 13, 2014

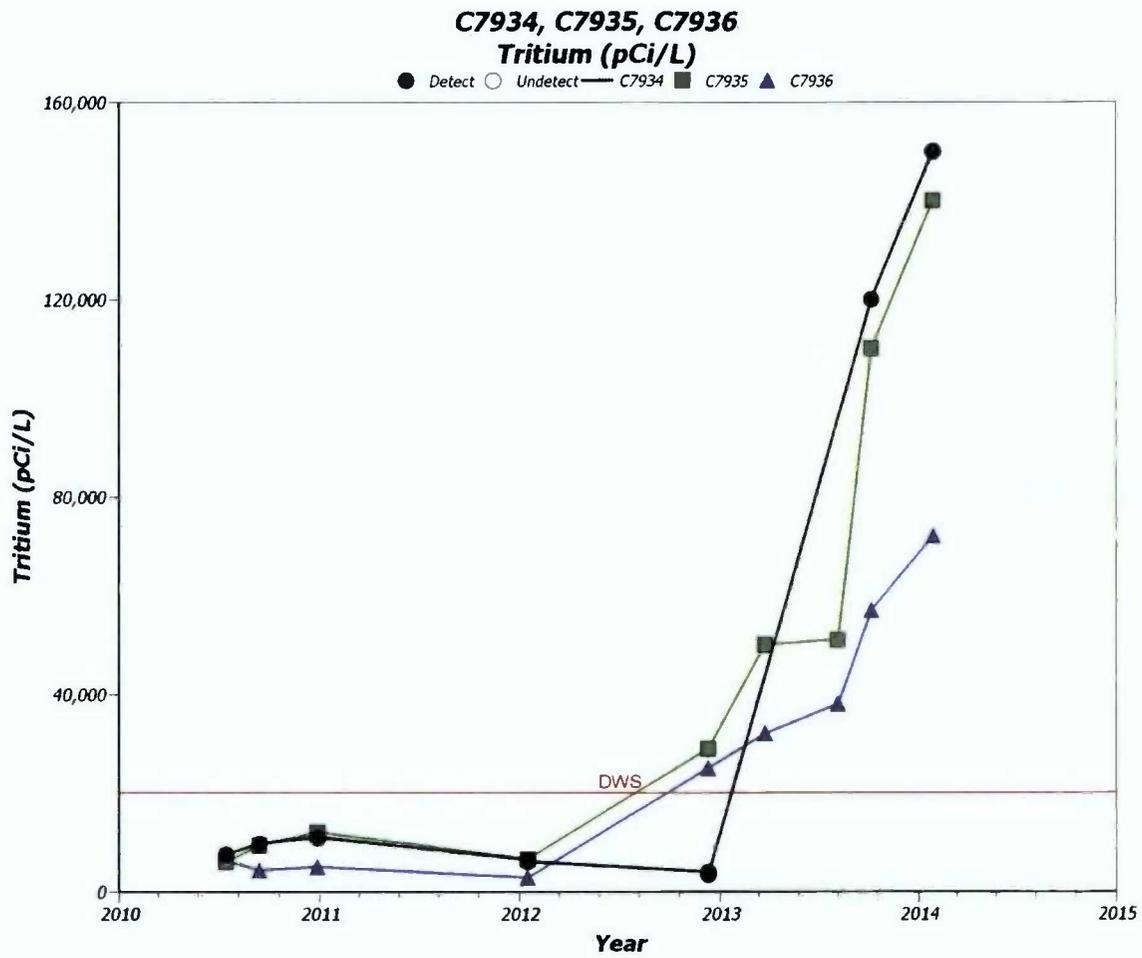


Figure 100NR2-2. Tritium Trends (through January 28, 2014) at Aquifer Tubes C7934, C7935, and C7936 in the 100-NR-2 OU

**100/300 Areas Unit Managers Meeting
March 13, 2014**

300-FF-5 Groundwater Operable Unit – Phil Burke/Virginia Rohay

- CERCLA Process Implementation:
 - Preparation of the Remedial Design Report/Remedial Action Work Plan is underway and a decisional draft for RL review is scheduled for Mid-March.
- Monitoring & Reporting
 - The 300-FF-5 Groundwater OU includes the groundwater impacted by releases from waste sites associated with three geographic sub regions: 300 Area Industrial Complex, 618-11 Burial Ground, and 618-10 Burial Ground/316-4 Cribs. Because the Record of Decision for the 300-FF-5 OU was signed in November 2013, groundwater characterization sampling and analysis has been reduced for the near-term until the groundwater performance monitoring plan that supports implementation of the remedial action is approved. These reductions were approved in four TPA change notices (TPA-CN-609, TPA-CN-610, TPA-CN-611, and TPA-CN-612) signed on February 13, 2014.
 - 300 Area Industrial Complex — As of March 4, 2014, 59 of the 65 wells that were scheduled to be sampled in December had been sampled. The next sampling event is scheduled for March 2014.

Wells identified for monitoring potential impacts from remediation of the 340 Vault include downgradient well 399-3-12. The uranium trends in this well are shown in Figure 300FF5-1. Strontium-90 was detected in samples collected from 1981 through 1986 but has not been detected in samples collected from 1987 through August 2013. Phosphate has not been detected in any samples (1986 through August 2013). Cesium-137 was detected once in 1981, but has not been detected in any other samples (1983 through 1992).
 - 618-11 Burial Ground — As of March 4, 2014, all three of the wells scheduled for sampling in January 2014 had been sampled. The next sampling event is scheduled for April 2014.
 - 618-10 Burial Ground/316-4 Crib — As of March 4, 2014, 4 of the 6 wells scheduled for sampling in December 2013 had been sampled. Access to two of the wells is restricted due to the associated remediation activities for 618-10 and will be sampled when available. The next sampling event is scheduled for March 2014.
 - RCRA Monitoring – 300 Area Process Trenches (316-5)
 - As of March 4, 2014, all 8 wells scheduled to be sampled in January and in February had been sampled. The next sampling event is scheduled for March 2014.
 - 300 Area Aquifer Tubes
 - The next sampling event is scheduled for December 2014.

**100/300 Areas Unit Managers Meeting
March 13, 2014**

Information Tables for Groundwater Sampling

Table 1. Wells, Aquifer Tubes and springs in the River Corridor Areas Successfully Sampled in February 2014

199-B4-14		199-D2-11	100-H SPRING 145-1	199-K-106A	199-K-150		399-1-10A
C8840		199-D3-5	199-H1-7	199-K-107A	199-N-165		399-1-10A
C8841		199-D5-103	199-H2-1	199-K-108A	199-N-32		399-1-10B
C8842		199-D5-104	199-H3-10	199-K-111A	199-N-71		399-1-10B
C8843		199-D5-106	199-H3-3	199-K-117A	199-N-72		399-1-16A
C8844		199-D5-13	199-H3-5	199-K-157	199-N-73		399-1-16A
C8847		199-D5-132	199-H3-6	199-K-18	199-N-74		399-1-16B
C8848		199-D5-133	199-H3-7	199-K-184	199-N-77		399-1-16B
C8851		199-D5-142	199-H3-9	199-K-185	199-N-81		399-1-17A
C8852		199-D5-143	199-H4-11	199-K-186	C7934		399-1-17A
C8855		199-D5-145	199-H4-12A	199-K-187	C7935		399-1-17B
C8856		199-D5-146	199-H4-16	199-K-188	C7936		399-1-17B
C8859		199-D5-148	199-H4-46	199-K-189			399-1-18A
C8860		199-D5-34	199-H4-49	199-K-190			399-1-18A
C8861		199-D5-39	199-H4-65	199-K-191			399-1-18B
		199-D5-97	199-H4-84	199-K-192			399-1-18B
		199-D6-3	199-H4-85	199-K-193			399-1-57
		199-D8-101	199-H4-86	199-K-194			399-1-58
		199-D8-70	199-H5-1A	199-K-197			399-1-59
		199-D8-71	50-M	199-K-198			399-3-2
		699-93-48A	52-D	199-K-199			399-3-6
		699-95-48	52-M	199-K-20			399-6-5
		699-95-51	52-S	199-K-200			699-12-2C
		699-96-52B	54-D	199-K-201			699-13-2D
		699-97-51A	54-M	199-K-32A			699-13-3A
		699-98-49A	54-S	199-K-34			
		699-98-51	699-94-41	699-78-62			
		SD-110-2	699-94-43	SK-077-1			
			699-95-45				
			699-97-41				
			699-98-46				
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100/300 Areas Unit Managers Meeting
March 13, 2014

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**100/300 Areas Unit Managers Meeting
March 13, 2014**

Table 2. Sample Trips Outstanding at the end of February 2014

100-BC-5	WELL	199-B4-16	1/1/2014	Well Not Accepted
	WELL	199-B4-18	1/1/2014	Well Not Accepted
	WELL	199-B5-10	1/1/2014	Well Not Accepted
	WELL	199-B5-11	1/1/2014	Well Not Accepted
	WELL	199-B5-12	1/1/2014	Well Not Accepted
	WELL	199-B5-13	1/1/2014	Well Not Accepted
	WELL	199-B5-14	1/1/2014	Well Not Accepted
	WELL	199-B5-9	1/1/2014	Well Not Accepted
100-FR-3	SPRING	100-F SPRING 207-1	10/1/2013	Annual
	SPRING	SEEP 190-4	10/1/2013	Annual
100-HR-3-D	WELL	199-D4-93	1/1/2014	Maintenance required
	WELL	199-D5-103	1/1/2014	Sampled 1/31/2014
	WELL	199-D5-130	1/1/2014	Quarterly
	WELL	199-D5-131	1/1/2014	Quarterly
	WELL	199-D5-147	2/1/2014	Quarterly
	WELL	199-D5-149	11/1/2013	Not on well access list
	WELL	199-D5-149	2/1/2014	Not on well access list
	WELL	199-D5-34	1/1/2014	Not Attempted
	WELL	199-D5-34	1/27/2014	Not Attempted
	WELL	199-D5-40	2/1/2014	Quarterly
	WELL	199-D7-3	1/1/2014	Quarterly
	WELL	199-D7-6	1/1/2014	Quarterly
	WELL	199-D8-54A	12/1/2013	Biannual
	WELL	199-D8-68	3/1/2013	Sampled 5/29/2013
	WELL	199-D8-95	1/1/2014	Quarterly
	WELL	199-D8-96	1/1/2014	Quarterly
WELL	199-D8-98	1/1/2014	Quarterly	
100-HR-3-H	SPRING	100-H SPRING 150-1	11/1/2013	Annual
	SPRING	100-H SPRING 152-2	11/1/2013	Annual
	SPRING	100-H SPRING 153-1	11/1/2013	Annual
	WELL	199-H1-3	12/1/2013	Quarterly
	WELL	199-H1-4	12/1/2013	Sampled 1/29/2014

**100/300 Areas Unit Managers Meeting
March 13, 2014**

	WELL	199-H4-8	11/1/2013	Maintenance required
	AQUIFER TUBE	50-S	11/1/2013	Canceled
	WELL	699-100-43B	1/1/2014	Quarterly
	WELL	699-99-44	2/1/2014	Quarterly
	SPRING	SH-144-1	11/1/2013	Annual
100-NR-2	WELL	199-K-149	11/1/2013	Maintenance required
	WELL	199-N-41	9/1/2013	Road Maintenance
	WELL	199-N-41	12/1/2013	Road Maintenance
1100-EM-1	WELL	699-S30-E15A	12/1/2013	Maintenance required
300-FF-5	WELL	399-1-2	12/1/2013	Maintenance required
	WELL	399-1-63	9/1/2013	Maintenance required
	WELL	399-1-63	12/1/2013	Maintenance required
	WELL	399-3-12	12/1/2013	Quarterly
	WELL	399-3-22	12/1/2013	Maintenance required
	WELL	399-4-10	12/1/2013	Access Restricted
	WELL	699-S6-E4B	12/1/2013	Maintenance required
	WELL	699-S6-E4L	12/1/2013	Quarterly
	AQUIFER TUBE	C6368	10/1/2013	Annual
	AQUIFER TUBE	C6371	10/1/2013	Annual

**100/300 Areas Unit Managers Meeting
March 13, 2014**

Table 3. Groundwater Sampling Locations in the River Corridor Areas Scheduled to be sampled in March 2014

199-B4-14		199-D3-2	199-H1-1		199-K-150		399-1-10A
C8840		199-D4-14	199-H1-2		199-N-105A		399-1-10B
C8841		199-D4-22	199-H1-25		199-N-14		399-1-16A
C8842		199-D4-23	199-H1-27		199-N-165		399-1-16B
C8843		199-D4-25	199-H1-34		199-N-173		399-1-17A
C8844		199-D4-38	199-H1-36		199-N-186		399-1-17B
C8847		199-D4-62	199-H1-39		199-N-187		399-1-18A
C8848		199-D5-104	199-H1-4		199-N-188		399-1-18B
C8851		199-D5-106	199-H1-42		199-N-2		399-1-21A
C8852		199-D5-123	199-H1-43		199-N-210		399-2-1
C8855		199-D5-125	199-H1-45		199-N-268		399-3-10
C8856		199-D5-126	199-H1-6		199-N-269		399-3-12
C8859		199-D5-145	199-H3-2A		199-N-28		399-3-19
C8860		199-D5-15	199-H3-2C		199-N-280		399-3-20
C8861		199-D5-16	199-H4-10		199-N-281		399-3-22
		199-D5-38	199-H4-13		199-N-297		399-3-34
		199-D5-39	199-H4-45		199-N-298		399-3-38
		199-D5-43	199-H4-5		199-N-3		399-4-15
		199-D5-97	199-H4-63		199-N-315		699-S6-E4A
		199-D8-5	199-H4-64		199-N-316		699-S6-E4L
		199-D8-68	199-H4-69		199-N-32		
		199-D8-69	199-H4-70		199-N-332		
		199-D8-70	199-H4-75		199-N-333		
		199-D8-72	199-H4-76		199-N-34		
		199-D8-73	199-H4-77		199-N-346		
		199-D8-88	199-H4-84		199-N-354		
		199-H1-5			199-N-355		
		199-H4-80			199-N-356		
		199-H4-81			199-N-357		
		199-H4-82			199-N-358		
		199-D2-11			199-N-359		
		199-D5-103			199-N-360		
		199-D5-104			199-N-361		
		199-D5-127			199-N-362		
		199-D5-133			199-N-363		
		199-D5-145			199-N-364		
		199-D5-146			199-N-365		
		199-D5-148			199-N-366		
		199-D5-34			199-N-367		
		199-D5-39			199-N-41		
		199-D5-97			199-N-46		

**100/300 Areas Unit Managers Meeting
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		199-D2-11			199-N-57		
		199-D5-103			199-N-67		
		199-D5-104			199-N-71		
		199-D5-127			199-N-72		
		199-D5-133			199-N-73		
		199-D5-145			199-N-74		
		199-D5-146			199-N-75		
		199-D5-148			199-N-76		
		199-D5-34			199-N-77		
		199-D5-39			199-N-81		
		199-D5-97			199-N-92A		
					APT5		
					C6132		
					C6136		
					C6324		
					C7881		
					C7934		
					C7935		
					C7936		
					N116mArray-0A		
					N116mArray-10A		
					N116mArray-11A		
					N116mArray-13A		
					N116mArray-15A		
					N116mArray-2A		
					N116mArray-3A		
					N116mArray-4A		
					N116mArray-6A		
					N116mArray-8.5A		
					N116mArray-8A		
					N116mArray-9A		
					NVP1-1		
					NVP1-2		
					NVP1-3		
					NVP1-4		
					NVP1-5		
					NVP2-115.1		
					NVP2-115.4		
					NVP2-115.7		
					NVP2-116.0		
					NVP2-116.3		

Attachment 2

March 13, 2014 Unit Manager's Meeting
Field Remediation Status

100-B/C

- Closure documentation for 100-C-7:1 expected for completion in mid-March 2014
- Backfill, contouring, and revegetation activities at 100-C-7:1 complete

100-D

- Completed excavation at 100-D-100. Initial closure samples results favorable, additional closure sampling ongoing
- Completed excavation to groundwater at 100-D-30/104.
- Continued remediation and stockpiling activities at 100-D-31:11/12
- Continued load-out to ERDF
- Continued LDR chromium shipments to ERDF
- Completed 100-D-97 excavation

100-H

- Continued excavation activities at 100-H-28:2-5 and 100-H-42
- Continued super-dump load-out to ERDF
- Completed remaining 100-H-56 confirmatory sampling test pits
- Completed 100-H-43 excavation

100-K

- Waste Site Reclassification forms complete for 100-K orphan sites
- Completed revegetation activities at 100-K orphan sites
- Completed removal of exit items except removal of CTA gravel

100-N

- Completed remediation of 100-N-84:2 (Barge Unloading Pipe), 100-N-84:4, 100-N-84:5, and 100-N-84:6
- Completed plume chases at 100-N-54, 100-N-100, and 600-340 pending favorable sample results
- Continued additional remediation at 100-N-93
- Began remedial efforts at 100-N-82 and 100-N-104
- Completed deep zone only backfill utilizing local BCL stockpiles
- Continued system operations for in-situ bioremediation system for UPR-100-N-17, deep vadose zone remediation; draft Operations & Maintenance Manual for system operation currently in regulator review
- Continued preparation of closure documents and conducting verification sampling

- Continued removal of additional MR / Exit Items

618-10 Trench Remediation

- Continued excavation and sorting of trench area
- Continued waste load out
- Continued drum characterization & handling activities
- Continued infrastructure work for VPU mockup and methods testing area

100-IU-2/6

- Collected verification samples from 600-356 and 600-378
- Verification samples indicated plumes present at 600-382 and 600-384
- Began removing plumes at 600-382 and 600-384
- Completed revegetation activities at various IU-2 sites

Attachment 3

100/300 Areas Unit Managers Meeting
March 13, 2014

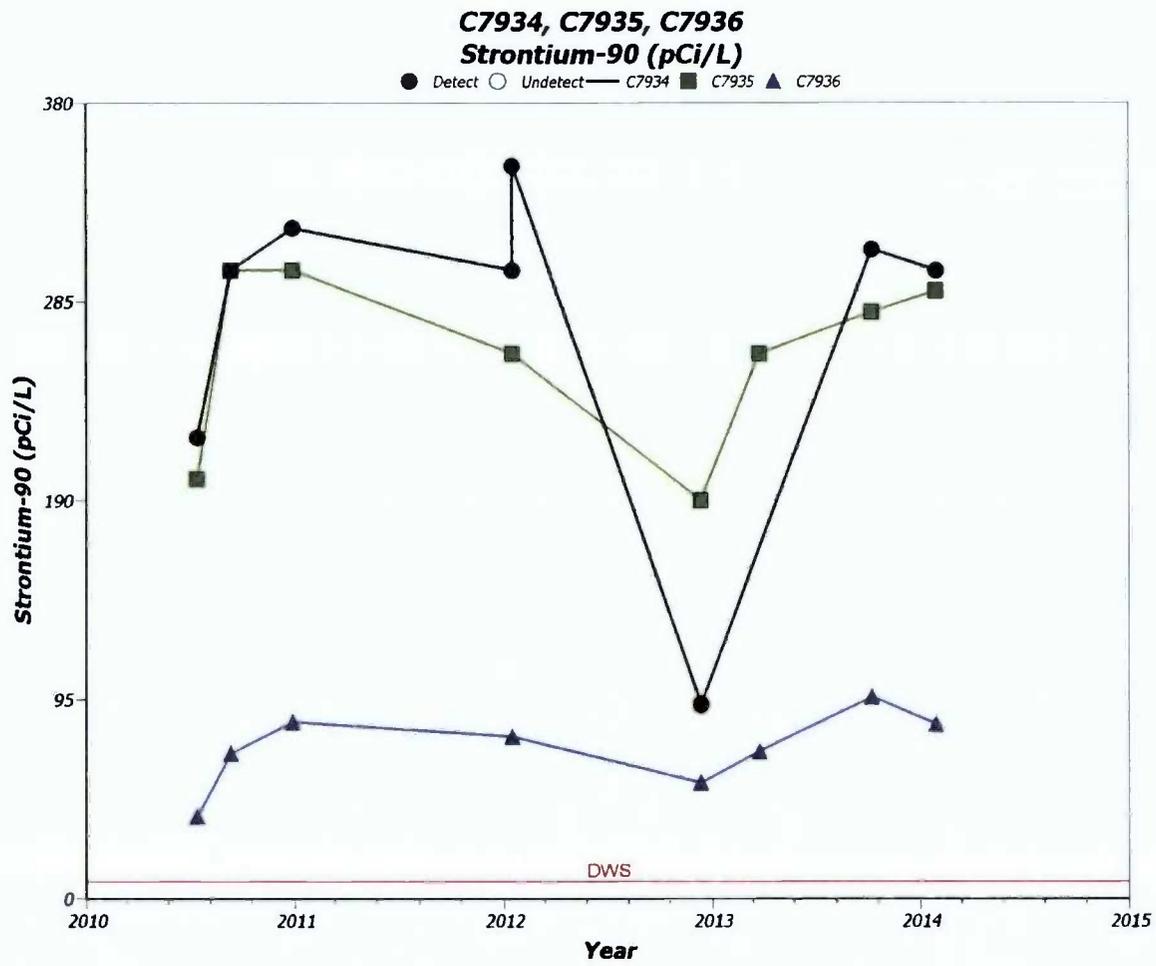


Figure 100NR2-3: Strontium-90 Trends (through January 28, 2014) in Aquifer Tubes C7934, C7935, and C7936

100/300 Areas Unit Managers Meeting
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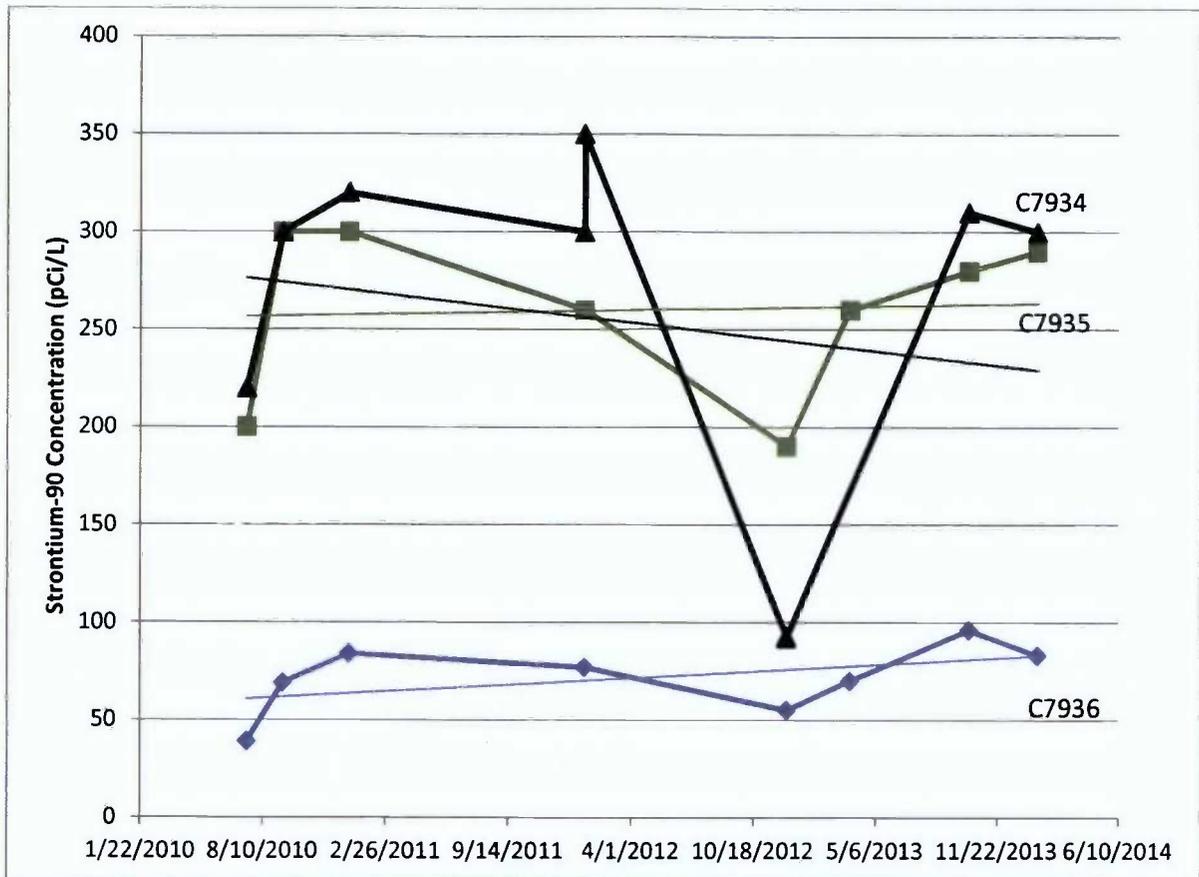


Figure 100-NR2-4. Strontium-90 Trend Plots and Linear Trend-Lines for Aquifer Tubes C7934, C7935, and C7936 as of January 28, 2014.

UMM K SCHEDULE

Activity ID	Activity Name	% Cmpl	RD	Start	Finish	M	April 2014	May 2014	June 2014	July 2014	A	
118-K-1 Burial Ground Final Project Closeout												
RK18K12030	Prepare Closure Document 118-K-1	98%	6	04-Dec-12 A	11-Mar-14		2	0	1	2	3	0
RK18K12052	RL/Reg Sign Rev. 0 Closure Document for - 118-K-1	100%	0	22-Jan-14 A	26-Feb-14 A		1	2	2	0	1	2

17

Attachment 4

**100K Area Unit Managers Meeting
March 13, 2014**

RL-0012 Sludge Treatment Project

TPA Milestone **M-016-175**, *Begin Sludge Removal from 105-KW Fuel Storage Basin (9/30/14)* - At Risk

- With DOE approval of the ECRTS Preliminary Design Safety Analysis, the Safety Design Strategy and the Critical Decision-2/3, activities in support of ECRTS process component procurement has commenced.
- 105-K West Basin Annex mezzanine structural steel installation is planned to start in late March/early April.
- The Integrated Process Optimization Demonstration continues at MASF. Process improvements identified during TRL-6 testing and earlier IPOD demonstrations are now being confirmed.

TPA Milestone **M-016-173**, *K Basin Sludge Treatment and Packaging Technology Selection (3/31/15)* - At Risk

- The phase 2 treatment and packaging site evaluation report was issued in September 2012. Evaluation of options and consideration of overarching policy issues leading to preparation of a recommendation are not funded in FY14.

TPA Milestone **M-016-176**, *Complete Sludge Removal from 105-KW Fuel Storage Basin (12/31/15)* – At Risk

- Initiation of this milestone follows completion of Milestone M-016-175.

TPA Milestone **M-016-178**, *Initiate Deactivation of 105-KW Fuel Storage Basin (12/31/15)* – At Risk

- Pre-deactivation activities in support of below-water debris identification, dose rate measurement, relocation of objects to clear the ECRTS footprint, debris characterization, and IWTS garnet filter media removal are in-progress to facilitate future deactivation.

RL-0041 K Facility Demolition and Soil Remediation

TPA Milestone **M-016-143**, *Complete the Interim Response Actions for 100 K Area Phase 2 (12/31/15)* – At Risk

- Response actions for phase 2 buildings are complete. Remediation of phase 2 waste sites is not currently funded in FY14.

TPA Milestone **M-093-28**, *Submit a Change Package for Proposed Interim Milestones for 105-KE and 105-KW Reactor Interim Safe Storage (12/31/15)* - On Schedule

- New milestone created by TPA Change Package M-93-12-02, signed 4/25/2013. Replaced the deleted milestones M-093-22 and M-093-26.

TPA Milestone **M-093-27**, *Complete 105-KE and 105-KW Reactor Interim Safe Storage in Accordance with the Removal Action Work Plan (12/31/19)* - On Schedule

Other Information and Status Updates

- No demolition or soil remediation activities were conducted at 100K during February.
- 105KE and 105KW Roof Repairs. An entry into 105KE was made to evaluate access to the damaged roof area from the inside of the building. It was determined that access was not good and that actions would be taken to facilitate access from the outside to make the repairs. A Plant Forces Work review was completed for the 105KW work with a determination that the work is subject to the Davis-Bacon Act and will be done by Construction workers.
- 100K Bore Holes. Work to complete the boreholes for characterization of the unplanned release and 100-K-63 waste sites near 105KE is expected to begin this fiscal year with completion in 2015. The specific work scope for FY14 is currently being defined.
- Disposition of found fuel at KW Basins. Options are being refined for discussion and subsequent decision by RL and EPA.

Attachment 5

UMM B/C SCHEDULE

Activity ID	Activity Name	% Cmpl	RD Start	Finish	M	T	W	Th	F	S	Sa	Su
100-C-7 Waste Site Remediation												
Closeout Sampling & Docs												
BC502D131	Prepare Closure Document for 100-C-7:1 West Sidewall / Stockpile Areas	96%	18 06-Mar-13 A	01-Apr-14								
BC524G86	RL/Regulator Sign Rev 0 Closure Document for 100-C-7:1 West Sidewall	0%	4 17-Mar-14*	20-Mar-14								
Revegetation												
BC502E22	100-C-7:1 Perform Revegetation (30 acres)	70%	8 02-Jan-14 A	13-Mar-14								
600-253 Waste Site (Pit 24)												
Backfill												
BC508C	600-253 (Pit 24) Recontouring	0%	16 16-Jun-14*	14-Jul-14								
Revegetation												
BC508E2	600-253 (Pit 24) Plant Reveg/Sage (40 acres)	0%	4 03-Nov-14*	06-Nov-14								

Attachment 6

100 Area D4/ISS Status

March 13, 2014

100-N

100-N Miscellaneous Items – Removal and disposition of miscellaneous materials and equipment from around the site continues. Decontamination of the remaining heavy equipment has been completed. The equipment is being prepared, “wrapped,” and relocated to either the 300 Area or ERDF. Continue D4 demobilization from 100-N.

181-N River Pump House Anchor Blocks – Completed wire cutting of anchor blocks. Load-out and disposal of anchor blocks and regrading of area remains.

100-B

151-B Electrical Switchyard – Below grade demolition and load-out continues.

183-B Clearwells – Continued demolition of clearwells.

Attachment 7

Activity ID	Activity Name	% Cmpl	RD	Start	Finish	2014			March 2014			April 2014			May 2014		
						17	24	31	03	10	17	24	31	07	14	21	28
NB583C	Backfill - 100-N-82	0%	1	06-Nov-14	06-Nov-14												
NB595C	Backfill - 100-N-100 (85.69 BCM)	0%	1	10-Nov-14	10-Nov-14												
NB591C	Backfill - 100-N-94 (49.11 BCM)	0%	1	10-Nov-14	10-Nov-14												
NB594C	Backfill - 100-N-99 (38.58 BCM)	0%	1	10-Nov-14	10-Nov-14												
NB5B1C	Backfill - 100-N-81 (659.98 BCM)	0%	1	10-Nov-14	10-Nov-14												
NB5093C	Backfill - 100-N-97 (9.65 BCM)	0%	1	10-Nov-14	10-Nov-14												
NB590C	Backfill - 100-N-91 (3.87 BCM)	0%	1	10-Nov-14	10-Nov-14												
NB5A3C	Backfill - 100-N-101 (126.6 BCM)	0%	1	10-Nov-14	10-Nov-14												
NB5A4C	Backfill - 600-340 (1,909 BCM)	0%	1	10-Nov-14	10-Nov-14												
NB597C	Backfill - 628-2 (709 BCM)	0%	1	10-Nov-14	10-Nov-14												
NB5A1C	Backfill - 100-N-93 (0 BCM)	0%	1	21-Jan-15	21-Jan-15												
NB5C3C	Backfill - 100-N-96 (2600 BCM)	0%	1	22-Jul-15	22-Jul-15												
NB5B2C	Backfill - 100-N-83 (20,659 BCM)	0%	5	22-Sep-15	29-Sep-15												
PROJMS3	100-N Backfill Complete	0%	0		29-Sep-15*												
NB5B6A30	Backfill - 100-N-107 (Final ROD)	0%	4	09-May-17	15-May-17												

Actual Work
 Milestone
 Actual Milestone
 Remaining Work
 % Complete

Data Date: 24-Feb-14

Attachment 8

**100/300 Areas Unit Managers Meeting
March 13, 2014**

100-HR-3 Groundwater Operable Unit – Bert Day/Kris Ivarson

- CERCLA Process Implementation:
 - RI/FS & PP: RL has provided proposed responses to approximately 96% of more than 700 comments on the RI/FS document. RL and Ecology have reach agreement on resolution of approximately 90% of the comments.
 - RD/RAWP, Monitoring Plan, and Operations and Maintenance Plan: Addressing RL comments.
- Remedial Actions and System Modifications
 - Operations continue at DX and HX pump-and-treat system. February 2014 performance:
 - The systems treated 32.59 million gallons
 - The system removed 16.61 kg of hexavalent chromium.
 - Received RL technical direction (14-AMRP-0090) on January 17, 2014, to reduce the DX treatment system throughput by up to 200 gallons per minute to accommodate sampling at the 100-D-100 excavation. On January 21, 2014, three affected DX injection wells were turned off (199-D5-128, 199-D5-42, and 199-D5-129); extraction wells (ME30 – ME40) were shut off to offset the lost injection capacity. The DX flow throughput was returned to normal operating condition on February 27, 2014.
 - Surface soil sampling at 100-D-100 has been completed and the locations for the boreholes selected. Contracting for borehole/ well installation has been initiated.
- Monitoring & Reporting
 - Conducted Data Quality Objectives/Sampling Instruction (DQO/SI) meeting on January 16, 2014, to assess groundwater impacts of the residual contamination (groundwater and vadose zone) within the 100-D-100 excavation bottom. Meeting attendees included WCH, CHPRC, RL, PNNL, and Ecology. A DQO/SI workshop was completed on January 22, 2014. The DQO/SI document was finalized and signed on February 24, 2014.

100-FR-3 Groundwater Operable Unit – Phil Burke/Mary Hartman

- CERCLA Process Implementation:
 - Meetings with EPA to review and resolve EPA legal comments on the draft final Proposed Plan (PP) were completed on March 06, 2014. The revised PP and responses to comments have been returned to EPA legal for review. The final Revision 0 documents (RI/FS, PP, and fact sheet) pending EPA Legal review(s) of the PP, are anticipated to be completed during the April through May timeframe.
 - The public comment period is anticipated to occur in May/June. Preparation of the ROD and Responsiveness Summary will occur from June to September and the ROD is anticipated to be issued in September 2014.
- Monitoring & Reporting
 - No activities to report.

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Clark, Steven W	steven.clark@wch-rcc.com	H4-23	WCH	



BIOVENT WELL SAMPLE RESULTS

Well #	Date	O2%	CO2 ppm	Well #	Date	O2%	CO2 ppm
199-N-171	9-Jan	19.4	3400	199-N-169	9-Jan	20.9	0
	5-Feb	19.6	2840		5-Feb	20.9	0
	6-Mar	18.7	3570		6-Mar	20.9	0
	8-Apr	19.4	3960		8-Apr	20.9	0
	15-May	19.8	6820		15-May	20.9	800
	12-Jun	19.6	8290		12-Jun	20.9	780
	10-Jul	19.6	6800		#1 Jul 10	20.5	1020
	14-Aug	20.9	6940		#2 Jul 10	20.9	920
	11-Sep	19.1	11400		14-Aug	20.9	530
	8-Oct	19.6	9380		11-Sep	20.9	1250
	21-Nov	20.2	7160		8-Oct	20.9	550
	16-Dec	20.3	6520		21-Nov	21.3	600
	27-Jan	20.2	5720		16-Dec	20.9	530
	11-Feb	20.5	5520		27-Jan	20.9	500
	17-Mar	20.4	5520		11-Feb	20.9	550
					17-Mar	20.9	470

O2%

CO2 ppm

Attachment 9

174951

^WCH Document Control

From: Saueressig, Daniel G
Sent: Wednesday, March 05, 2014 12:57 PM
To: ^WCH Document Control
Subject: FW: REQUEST TO USE DEBRIS FOR BACKFILL AT 100-N

Please provide a chron number. This email documents a regulatory agreement.

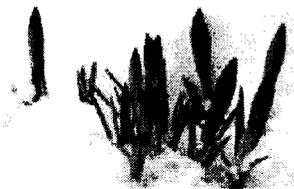
Thanks,

Dan Saueressig
FR Environmental Project Lead
Washington Closure Hanford
521-5326

From: Elliott, Wanda (ECY) [mailto:well461@ECY.WA.GOV]
Sent: Wednesday, March 05, 2014 12:49 PM
To: Saueressig, Daniel G
Cc: Chance, Joanne C
Subject: RE: REQUEST TO USE DEBRIS FOR BACKFILL AT 100-N

I concur.

Wanda Elliott
(509) 372-7904
Environmental Scientist
Nuclear Waste Program
Washington State Department of Ecology



From: Saueressig, Daniel G [mailto:dgsauere@wch-rcc.com]
Sent: Wednesday, March 05, 2014 12:50 PM
To: Elliott, Wanda (ECY)
Cc: Chance, Joanne C
Subject: REQUEST TO USE DEBRIS FOR BACKFILL AT 100-N

Wanda, in addition to the items listed in the e-mail chain and approval below; we have a few more items that we would like to place into the 182-N foundation. These include fence posts with concrete attached to the base, concrete electrical pads, and some other misc. small concrete pads. As was the case before, Radiological Control will survey the debris and we'll ensure there is no staining prior to placement in the 182-N foundation.

3/5/2014

Please let me know if you concur.

Thanks,

Dan Saueressig
FR Environmental Project Lead
Washington Closure Hanford
521-5326

From: Elliott, Wanda (ECY) [mailto:well461@ECY.WA.GOV]
Sent: Wednesday, December 18, 2013 8:38 AM
To: Saueressig, Daniel G
Cc: Guercia, Rudolph F; Chance, Joanne C
Subject: RE: REQUEST TO USE DEBRIS FOR BACKFILL AT 100-N

I concur.

Wanda Elliott
(509) 372-7904
Environmental Scientist
Nuclear Waste Program
Washington State Department of Ecology



From: Saueressig, Daniel G [mailto:dgsauere@wch-rcc.com]
Sent: Wednesday, December 18, 2013 8:38 AM
To: Elliott, Wanda (ECY)
Cc: Guercia, Rudolph F; Chance, Joanne C
Subject: RE: REQUEST TO USE DEBRIS FOR BACKFILL AT 100-N

Wanda, based on the approval below, we plan to place approximately 32 pieces of concrete debris (Ecology blocks, concrete dividers, etc.) into the 182-N along with the 100-N anchor blocks. In addition, various concrete parking bumpers, miscellaneous bollards, 4 concrete electrical vaults and one large (~4 feet in diameter by 4 feet tall) concrete filled pipe used to mock up the fission product trap removal action are also planned to be placed into the 182-N. We will comply with all the stipulations identified by you below and provide the estimated volume of material when placed.

Let me know if you concur.

Thanks,

Dan Saueressig
FR Environmental Project Lead

3/5/2014

Washington Closure Hanford
521-5326

From: Guercia, Rudolph F (Rudy) [mailto:rudolph.guercia@rl.doe.gov]
Sent: Monday, September 16, 2013 11:58 AM
To: Chance, Joanne C; Elliott, Wanda; Saueressig, Daniel G
Cc: Boyd, Alicia; Menard, Nina; Douglas, L M (Michael); Allen, Mark E; Winterhalder, John A
Subject: RE: REQUEST TO USE DEBRIS FOR BACKFILL AT 100-N

I concur also; Mike/Mark, FYI and planning purposes

RF Guercia

From: Chance, Joanne C
Sent: Monday, September 16, 2013 11:33 AM
To: 'Elliott, Wanda (ECY)'; Saueressig, Daniel G
Cc: Boyd, Alicia (ECY); Menard, Nina (ECY); Guercia, Rudolph F (Rudy)
Subject: RE: REQUEST TO USE DEBRIS FOR BACKFILL AT 100-N

Hi Wanda and Dan,

I concur with the requested debris disposal plan, with the stipulations noted by Ecology.

(Rudy is in training, so it may take a few days for his response. I know he is supportive of the concept and wants the metal recycled, too). Thanks.

Joanne C. Chance
U.S. Department of Energy
Office of Assistant Manager for River and Plateau
825 Jadwin Ave / MSIN A3-04
Richland, WA 99352
(509) 376-0811

From: Elliott, Wanda (ECY) [mailto:well461@ecy.wa.gov]
Sent: Thursday, September 12, 2013 7:33 AM
To: Saueressig, Daniel G; Chance, Joanne C; Guercia, Rudolph F (Rudy)
Cc: Boyd, Alicia (ECY); Menard, Nina (ECY)
Subject: RE: REQUEST TO USE DEBRIS FOR BACKFILL AT 100-N

All,

I approve the placement of clean inert debris (e.g., 100-N anchor blocks, miscellaneous ecology blocks, and parking bumpers) from various 100-N locations into the 182-N subgrade foundation prior to backfill of the area "on a case-by-case" basis only. Note that this agreement does not include the fencing, fence posts, and fence fabrics. Those items should be sent for recycling whenever possible.

Please ensure the following:

3/5/2014

The debris does not contain visual indications of staining. Any debris with visual stains will be disposed of at ERDF.

The material to be placed will not have been in an area controlled for radiological purposes and if the material was in a radiologically controlled area, surveys would be performed to ensure no radiological contamination is present prior to placement. Any debris with radiological contamination will be disposed of at ERDF.

The void spaces are filled.

Ecology is notified prior to placement and provided with approximate mass/volumes and type of debris.

This agreement is not a blanket agreement. Each sub-grouping of inert debris that is proposed will be approved by Ecology prior to being placed.

Thanks,

Wanda Elliott
(509) 372-7904
Environmental Scientist
Nuclear Waste Program
Washington State Department of Ecology



From: Saueressig, Daniel G [<mailto:dqsauere@wch-rcc.com>]
Sent: Thursday, September 12, 2013 6:00 AM
To: Elliott, Wanda (ECY); Chance, Joanne C; Guercia, Rudolph F
Subject: REQUEST TO USE DEBRIS FOR BACKFILL AT 100-N

Wanda/Joanne/Rudy, I'd like to request your approval to place clean inert debris that would otherwise get disposed at ERDF from various 100-N locations into the 182-N subgrade foundation prior to backfill of the area. Section 4.1.1 of the 100-N Area Remedial Design Report/Remedial Action Work Plan (DOE/RL-2005-93, Rev. 0) allows "on a case-by-case basis, and as allowed by the Lead Regulatory Agency, inert waste forms may be used as waste site backfill provided that general size and/or placement requirements are met."

WCH would like to use the subgrade of the 182-N for placement of various inert debris (e.g., 100-N anchor blocks, miscellaneous ecology blocks, parking bumpers, fencing and fence posts, fence fabric in addition to other clean debris encountered that would qualify for placement). Determination of clean concrete and steel debris will be based on visual observation. If the debris does not contain visual indications of staining, the debris will be used as backfill. Concrete and steel with visual indications of staining will be disposed of at ERDF. In addition, the material to be placed will not have been in an area controlled for radiological purposes and if the material was in a radiologically controlled area, surveys would be performed to ensure no radiological contamination is present prior to placement.

Let me know if you concur and I'll document this agreement at the next UMM.

Thanks,

Dan Saueressig
FR Environmental Project Lead
Washington Closure Hanford
521-5326

9
①

Attachment 10

174952

^WCH Document Control

From: Saueressig, Daniel G
Sent: Wednesday, March 05, 2014 1:49 PM
To: ^WCH Document Control
Subject: FW: 100-N-84:2 REMAINING PIPE AGREEMENT

Attachments: Picture (Device Independent Bitmap) 1.jpg; 100-N-84_2 Remaining Segment Removal.doc
Please provide a chron number (and include the attachment). This email documents a regulatory approval.

Thanks,

Dan Saueressig
FR Environmental Project Lead
Washington Closure Hanford
521-5326

From: Chance, Joanne C [<mailto:joanne.chance@rl.doe.gov>]
Sent: Wednesday, March 05, 2014 1:44 PM
To: Saueressig, Daniel G
Cc: Elliott, Wanda
Subject: Re: 100-N-84:2 REMAINING PIPE AGREEMENT

I concur also.

Sent from my iPad

On Mar 5, 2014, at 7:08 AM, "Elliott, Wanda (ECY)" <wel1461@ecy.wa.gov> wrote:

I concur.

Wanda Elliott
(509) 372-7904
Environmental Scientist
Nuclear Waste Program
Washington State Department of Ecology

<Picture (Device Independent Bitmap) 1.jpg>

From: Saueressig, Daniel G [<mailto:dqsauere@wch-rcc.com>]
Sent: Tuesday, March 04, 2014 4:14 PM
To: Elliott, Wanda (ECY); Chance, Joanne C
Subject: 100-N-84:2 REMAINING PIPE AGREEMENT

Wanda/Joanne, per our discussion at the interface meeting this morning, attached is a proposal for removal and sampling of the remaining section of the 100-N-84:2 pipe section remaining on the river road south of the old 181-N Intake Structure.

Let me know if you concur with the proposal.

Thanks,

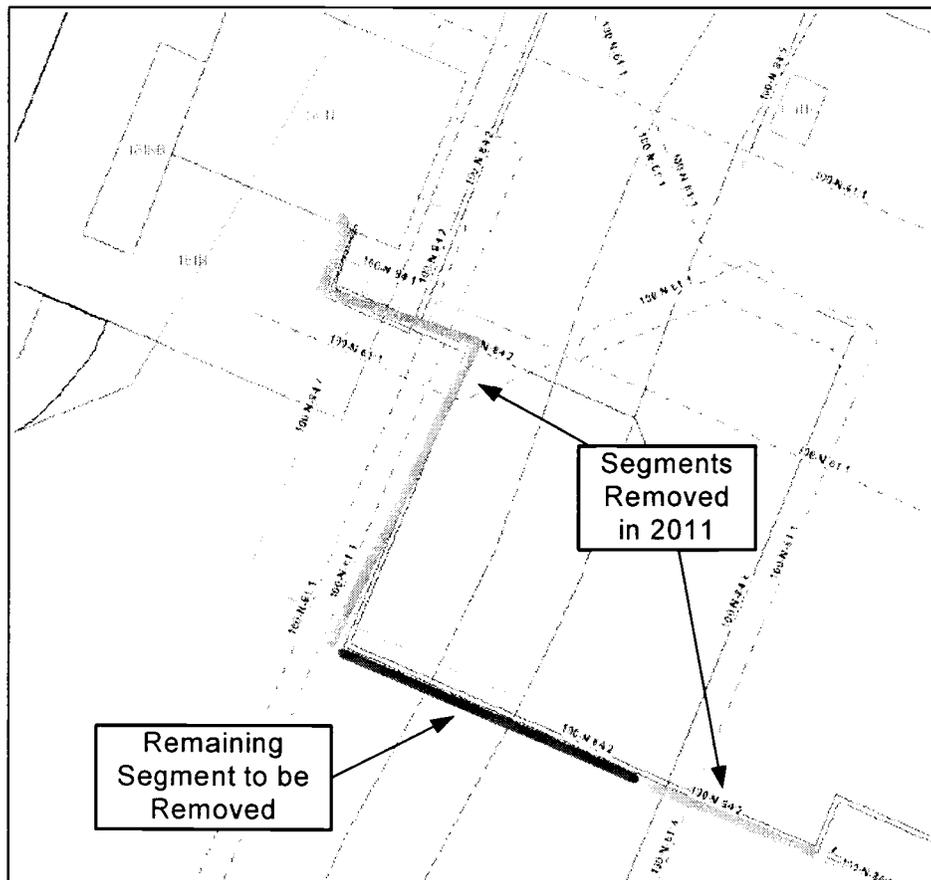
Dan Saueressig
FR Environmental Project Lead
Washington Closure Hanford
521-5326

<< File: 100-N-84_2 Remaining Segment Removal.doc >>

100-N-84:2 – Remaining Segment Removal

During the process of preparing the verification sampling work instruction for the 100-N-84:2 site, it was discovered that a segment of the 100-N-84:2 pipeline remains south of the former 181-N Building. During the demolition and removal of the 100-N river structures in 2011, the adjacent 100-N-61:1 pipelines and a portion of the 100-N-84:2 pipelines were removed. Per the 100-N South River Road Agreement, a verification soil sample was collected at the RR-5 location to support immediate backfill of this area to provide access for D4 to demolish the 181-N Intake Structure.

At the time the 100-N river structures were being demolished and removed, the 100-N-84:2 pipelines had not been added to the WCH contract; therefore, only the segment of the 100-N-84:2 pipeline that was co-located with 100-N-61:1 was removed and disposed. WCH proposes additional remedial actions to remove the remaining segment of the 100-N-84:2 pipeline (approximately 50 linear feet) and to re-sample location RR-5 per the 100-N South River Road Agreement. Due to ongoing work by D4 to remove the concrete anchor blocks, WCH proposes immediately backfilling the excavation upon the receipt of the passing RR-5 sample results. See Figure below for the location of the 100-N-84:2 pipeline segment to be removed.



Attachment 11

174966

^WCH Document Control

From: Nielson, Renee J
Sent: Thursday, March 06, 2014 10:45 AM
To: ^WCH Document Control
Cc: Howell, Theresa Q
Subject: FW: Revised Road Crossing Agreement

Attachments: Revised road crossing agreement.doc

Please chron email chain and attachment. This supersedes CCN 174439.

Thank you.

Renée

From: Chance, Joanne C [<mailto:joanne.chance@rl.doe.gov>]
Sent: Tuesday, February 25, 2014 10:33 AM
To: Howell, Theresa Q
Cc: Elliott, Wanda
Subject: RE: Road Crossing Agreement

I concur also. Thanks.

Joanne C. Chance
U.S. Department of Energy
Office of Assistant Manager for River and Plateau
825 Jadwin Ave / MSIN A3-04
Richland, WA 99352
(509) 376-0811

From: Elliott, Wanda (ECY) [<mailto:well461@ecy.wa.gov>]
Sent: Monday, February 24, 2014 7:10 AM
To: Howell, Theresa Q; Chance, Joanne C
Cc: Nielson, Renee J; Capron, Jason M
Subject: RE: Road Crossing Agreement

Looks good.

Wanda Elliott
(509) 372-7904
Environmental Scientist
Nuclear Waste Program
Washington State Department of Ecology



From: Howell, Theresa Q [<mailto:tequeen@wch-rcc.com>]
Sent: Monday, February 24, 2014 6:53 AM
To: Elliott, Wanda (ECY); Chance, Joanne C
Cc: Nielson, Renee J; Capron, Jason M
Subject: Road Crossing Agreement

Wanda/Joanne,

The road crossing agreement has been revised in redline/strikeout and is attached.

Please let me know if you have any questions or if you concur.

Thanks,
Theresa

REQUEST TO VERIFICATION SAMPLE AND BACKFILL IMMEDIATELY PORTIONS OF 100-N-84 PIPELINE SUBSITES THAT CROSS UNDER ESTABLISHED ROADWAYS

Washington Closure Hanford (WCH) requests approval from the U.S. Department of Energy (DOE) and the Washington State Department of Ecology (Ecology) to verification sample and backfill immediately portions of the 100-N-84 pipeline subsites that cross under established roadways at the 100-N Area. To maintain the safe flow of traffic at the 100-N Area during continued remediation/loadout and backfilling activities, portions of the 100-N-84:4, 100-N-84:5, and 100-N-84:6 pipeline remediations will need to be sampled and backfilled ahead of the normal verification sampling/closeout process.

VERIFICATION SAMPLING AND ANALYSIS

This paper describes the requirements for verification sampling the road crossing areas prior to backfilling. Verification sampling will be performed to support a determination that potential residual contaminant concentrations at the road crossings meet the cleanup criteria specified in the *Remedial Design Report/Remedial Action Work Plan for the 100-N Area* (100-N Area RDR/RAWP) (DOE-RL 2013).

Contaminants of Potential Concern

100-N-84:4

The contaminants of potential concern (COPCs) identified in the *Work Instruction for Confirmatory Sampling of the 100-N-84:4, 100-N Area Steam and Condensate Pipelines* (WCH 2010a) included inductively coupled plasma (ICP) metals, mercury, hexavalent chromium, total petroleum hydrocarbons (TPH), polycyclic aromatic hydrocarbons (PAH), ion chromatograph (IC) anions, and nitrate/nitrite. Radiological activity and volatile organic compounds (VOCs) were not detected in the field during confirmatory sampling; therefore, radionuclides and VOCs were not added as COPCs for this site.

Because antimony, arsenic, barium, cadmium, chromium, copper, lead, manganese, molybdenum, nickel, selenium, zinc, and hexavalent chromium were detected above a remedial action goal (RAG) in the confirmatory samples, they are retained as site COPCs for verification sampling. Although not detected above a RAG, analysis for mercury will be requested. Additionally, beryllium, boron, cobalt, silver, and vanadium will be included in the expanded list of ICP metals. TPH and PAH were also detected above a RAG; however, asphaltic material related to former construction (roadways, parking lots, mastic, and gilsulate applications around subsurface pipelines) intersects or coincides with the pipeline remediations, and in these instances, TPH and PAH are likely to be present above soil RAGs. Therefore, TPH and PAH are not considered a site COPC unless soil staining is observed. In the event soil staining is observed, TPH and PAH will be added to the list of analyses for samples within the stained area.

The final list of analyses for verification sampling at the 100-N-84:4 subsite includes ICP metals, mercury, and hexavalent chromium. TPH and PAH will only be added if soil staining is observed.

100-N-84:5

The COPCs identified in the *Work Instruction for Confirmatory Sampling of the 100-N-84:5, 100-N Area Sanitary Pipelines* (WCH 2010b) included chromium (total), lead, mercury, hexavalent chromium, anions, pesticides, polychlorinated biphenyls (PCBs), and semivolatile organic compounds (SVOCs). No radiological activity or VOCs were detected in the field during the confirmatory sampling; therefore, radionuclides and VOCs were not included as site COPCs.

Confirmatory sampling results did not detect any contaminants above a RAG; however, only one test pit location was available to be excavated and sampled at that time. The 100-N-84:5 pipeline subsite was recommended for remove, treat, dispose (RTD) because the pipeline was part of an active sewer system.

In-process samples were collected during the 100-N-84:5 pipeline remediation. Chromium, lead, mercury, nickel, and zinc were detected above a RAG; therefore, they will be retained as site COPCs for verification sampling. Although hexavalent chromium was either undetected or detected below the RAG, it will be retained as a COPC for verification sampling. Multiple PAHs, aroclor-1254, and aroclor-1260 were detected above the groundwater and/or river protection RAG in samples collected from two manhole locations; however, the material collected from these locations is worst case and is not necessarily representative of the soil below the pipeline. Additionally, based on RESRAD modeling discussed in Appendix C of the 100-N Area RDR/RAWP (DOE-RL 2013) residual concentrations of these constituents are predicted to migrate less than 1 m (3.3 ft) vertically in 1,000 years (based on the lowest soil-partitioning coefficient of these contaminants [aroclor-1254] of 75.6 mL/g). The 100-N-84:5 subsite is fairly shallow and sufficient vadose would be available to show no migration to groundwater. Therefore, PAHs and PCBs are eliminated as site COPCs. TPH was also detected above the RAG; however, the soil sample location was co-located with the 100-N-84:2 pipeline subsite and is more likely attributed to the 100-N-84:2 subsite rather than the 100-N-84:5. Therefore, TPH is not considered a site COPC. While not considered site COPCs, antimony, arsenic, barium, beryllium, boron, cadmium, cobalt, copper, manganese, molybdenum, selenium, silver, and vanadium will be included in the expanded list of ICP metals.

Asbestos was detected in the in-process sample; therefore, asbestos will be included as a site COPC.

The final list of analyses for verification sampling the 100-N-84:5 subsite includes ICP metals, mercury, hexavalent chromium, and asbestos.

100-N-84:6

Historical information suggest that various chemicals were utilized in the 100-N-84:6 source buildings including 109-N Heat Exchange Building, 105-N Reactor Building, 163-N

Demineralization Plant, 182-N High-Lift Pump House, 183-N Filter plant, and 184-N Power House. The chemicals and uses include:

- Phosphoric, ascorbic, and citric acids, and potassium permanganate in the 109-N and 105-N Buildings decontamination processes
- Ammonium hydroxide, morpholine and lithium hydroxide to control cooling water pH
- Hydrazine to reduce oxygen concentrations in cooling water
- Sulfuric acid to regenerate the cation resin and sodium hydroxide to regenerate anion resin in the demineralizer plant
- Sodium sulfite as a deoxygenizing chemical for low pressure filter water in 182-N Building
- Sodium dichromate added to filtered and raw water supply for cooling coils in the 105-N Building

One focused sample was collected and analyzed for ICP metals, mercury, IC anions, hexavalent chromium, PAH, PCBs, and asbestos to evaluate the location underneath where the 100-N-84:6 pipeline remains in the sidewall of the 100-N-23 excavation (WCH 2013c). Of these, multiple PAHs and aroclor-1254 were detected above groundwater and/or river protection RAGs in the focused sample result. Although PAH were detected above a RAG, asphaltic material related to former construction (roadways, parking lots, mastic, and gilsulate applications around subsurface pipelines) intersects or coincides with the pipeline remediations, and in these instances, PAH are likely to be present above a soil RAG. Therefore, PAH are not considered a site COPC unless visual soil staining is observed. In the event soil staining is observed, PAH will be added to the list of analyses for samples within the stained area.

Semivolatile organic compounds (SVOCs) were included in the COPCs for two associated waste sites of the 100-N-84:6 subsite: the 116-N-2 and 100-N-88 waste sites. Multiple SVOCs were detected above groundwater and/or river protection RAGs for the 116-N-2 verification sampling; however, the 100-N-84:6 pipeline segment located within the 116-N-2 sample design boundary was dispositioned with the 116-N-2 waste site (WCH 2013f). The characterization sampling result for the 100-N-88 waste site had no detected SVOCs, and the verification sampling detected only butylbenzylphthalate, a common laboratory contaminant, with the concentration much lower than the most stringent RAGs. In addition, the potential organic contaminants such as hydrazine and morpholine are reagents, which would have decomposed and are least likely to be found. Therefore, SVOCs are excluded from the COPCs for the 100-N-84:6 subsite.

The 100-N-84:6 subsite included several pipeline segments categorized as radioactive drains; however, they have been remediated and interim closed out with the 100-N-61:2 subsite (WCH 2013d), the 100-N-63:2 waste site (WCH 2013b), the waste sites located west of the 105-N/109-N Reactor (WCH 2013e) with exceptions of two radioactive drain segments within the footprint of the former 1722-N facility. The two segments were removed during removal of the 105-NA building and the 1722-N building (WCH 2013a), and will be dispositioned with the 100-N-66 waste site. Since there are no radioactive drains left for remediation, radionuclides were excluded from the COPCs for the 100-N-84:6 subsite.

The final list of analyses for verification sampling the 100-N-84:6 subsite include ICP metals, mercury, hexavalent chromium, IC anions, NO_2/NO_3 , and PCB. TPH and PAH will only be added if soil staining is observed.

Sampling Plan

One discrete grab sample will be collected from the approximate center of the road crossing area at the locations shown on Figure 1. The actual sample locations will be surveyed in the field at the time of sample collection and the coordinates will be recorded in the field logbook. The soil samples will be submitted to the laboratory for the analyses requested in Table 1 and analyzed using the methods identified in Table 2. Full protocol laboratory analysis will be requested for all samples. All sampling will be performed in accordance with ENV-1, *Environmental Monitoring and Management* consistent with the *100-N Area Sampling and Analysis Plan for CERCLA Waste Sites* (100-N Area SAP) (DOE-RL 2006a) requirements.

Note: in the event that the road crossing does not need to be backfilled immediately, the sample will not be collected and the road crossing area will be included with the remaining segments of pipeline to be addressed in the normal verification work instruction process.

Data Evaluation

The road crossing samples will not be evaluated in a statistical data set, but rather will be compared directly to the cleanup criteria specified in the 100-N Area RDR/RAWP (DOE-RL 2013). The data will be presented in the closure documents for each of the 100-N-84 pipeline subsites.

Table 1. 100-N-84 Pipeline Subsite Road Crossing Sample Summary

Pipeline Subsite	Sample Location	Sample Number	Sample Location Coordinates		Requested Analysis
			Northing	Easting	
100-N-84:4	N-84-4a	TBD	TBD	TBD	ICP metals ^a , mercury, and hexavalent chromium.
	N-84-4b	TBD	TBD	TBD	Note: PAH and TPH will be added only if stained soil is observed.
100-N-84:5	N-84-5a	TBD	TBD	TBD	ICP metals ^a , mercury, hexavalent chromium, and asbestos
	N-84-5b	TBD	TBD	TBD	
	N-84-5c	TBD	TBD	TBD	
	N-84-5d	TBD	TBD	TBD	
	N-84-5e	TBD	TBD	TBD	
100-N-84:6	N-84-6a	TBD	TBD	TBD	ICP metals ^a , mercury, hexavalent chromium, PCBs, IC anions ^b , and NO ₂ /NO ₃ . Note: TPH and PAH will be added only if stained soil is observed.

^a The expanded list of ICP metals will be performed to include antimony, arsenic, barium, beryllium, boron, cadmium, chromium (total), cobalt, copper, lead, manganese, molybdenum, nickel, selenium, silver, vanadium, and zinc.

^b The expanded list of IC anions will be performed to include bromide, fluoride, nitrate, nitrite, and phosphate.

Table 2. Laboratory Analytical Methods.

Analytical Method	Contaminants of Potential Concern
ICP metals ^a – EPA Method 6010	Metals
Mercury – EPA Method 7471	Mercury
Hexavalent chromium – EPA Method 7196	Hexavalent chromium
IC anions – EPA Method 300.0	Anions
NO ₂ /NO ₃ – EPA Method 353.2	Nitrate
PAH ^b – EPA Method 8310	Polycyclic aromatic hydrocarbons
PCBs – EPA Method 8082	Aroclor-1254, aroclor-1260
TPH ^b – EPA Method NWTPH-Dx	Total petroleum hydrocarbons

^a The expanded list of ICP metals will be performed to include antimony, arsenic, barium, beryllium, boron, cadmium, chromium (total), cobalt, copper, lead, manganese, molybdenum, nickel, selenium, silver, vanadium, and zinc.

^b Samples will be analyzed for TPH and PAH only if stained soil is observed.

EPA = U.S. Environmental Protection Agency

IC = ion chromatography

ICP = inductively coupled plasma

NWTPH-Dx = Northwest total petroleum – diesel range organics

PAH = polycyclic aromatic hydrocarbons

PCB = polychlorinated biphenyl

TPH = total petroleum hydrocarbons

REFERENCES

- DOE-RL, 2006a, *100-N Area Sampling and Analysis Plan for CERCLA Waste Sites*, DOE/RL-2005-92, Rev. 0, U.S. Department of Energy, Richland Operations Office, Richland, Washington.
- DOE-RL, 2013, *Remedial Design Report/Remedial Action Work Plan for the 100-N Area*, DOE/RL-2005-93, Rev. 1, U.S. Department of Energy, Richland Operations Office, Richland, Washington.
- ENV-1, *Environmental Monitoring & Management*, Washington Closure Hanford, Richland, Washington.
- WCH, 2010a, *Work Instruction for Confirmatory Sampling of the 100-N-84:4, 100-N Area Steam Condensate Pipelines*, 0100N-WI-G0010, Rev. 0, Washington Closure Hanford, Richland, Washington.
- WCH, 2010b, *Work Instruction for Confirmatory Sampling of the 100-N-84:5, 100-N Area Sanitary Pipelines*, 0100N-WI-G0011, Rev. 0, Washington Closure Hanford, Richland, Washington.
- WCH, 2013a, *105-NA Emergency Diesel Enclosure & 1722-N Decontamination Building Completion*, Attachment to Facility Status Change Form D4-100N-0048, Washington Closure Hanford, Richland, Washington.
- WCH, 2013b, *Cleanup verification Package for the 100-N-63:2; Pipelines Between 109N, 105N, 107N, 1310N, 1322N, 1926N and 36' process Drains to Outfall*, Attachment to Waste Site Reclassification Forms 2013-048, Washington Closure Hanford, Richland, Washington.
- WCH, 2013c, *Remaining Sites verification Package for the 100-N-23; Resin Disposal Pit Liquid Waste Site 1*, Attachment to Waste Site Reclassification Forms 2013-009, Washington Closure Hanford, Richland, Washington.
- WCH, 2013d, *Remaining Sites verification Package for the 100-N-28; Resin Disposal Pit Liquid Waste Site 2, 100-N-61:2; Water Treatment and Storage Facilities Underground Pipelines East of 109-N, 100-N-62; 100-N, 105-N, 109-N, 163-N, 182-N, 183-N, and 184-N Underground Pipelines, 100-N-64:2; Cooling Water Effluent Underground Pipelines East of 109-N*, Attachment to Waste Site Reclassification Forms 2012-102, 2012-103, 2012-104, 2012-105, Washington Closure Hanford, Richland, Washington.
- WCH, 2013e, *Remaining Sites verification Package for the 100-N-31; Unplanned Release on 30-inch Pipe Line, 100-N-32; 100-N-32 Unplanned Release on 25-centimeter (10-inch) Blowdown Pipeline #3, 100-N-38; Unplanned Release at 1300-N, 100-N-61:3; Water Treatment and Storage Facilities Underground Pipelines West of 109-N pipeline, 100-N-64:3; Cooling Water Effluent Underground Pipelines West of 109-N pipeline, 100-N-68;*

N Basin Low Level Radioactive Water Spill; UPR-100-N-3, Spacer Disposal System Transport Line Leak, UPR-100-N-7; Ten-inch Radioactive Drain Return Line Leak, UPR-100-N-10; Lift Station Gravity Drain Line Leak, UPR-100-N-12; Spacer Transport Line Leak, UPR-100-N-39; Corridor 22 Suspect Liquid Unplanned Release, Attachment to Waste Site Reclassification Forms 2013-065, 2013-066, 2013-067, 2013-068, 2013-069, 2013-070, 2013-071, 2013-072, 2013-073, 2013-074, 2013-075, Washington Closure Hanford, Richland, Washington.

WCH, 2013f, Remaining Sites verification Package for the *116-N-2; 1310-N Chemical Waste Storage Tank; 1310-N Waste Storage Area; The Golf Ball, UPR-100-N-5; 116-N-2 Radioactive Chemical Waste Treatment Storage Facility; 1310-N Chemical Waste Storage Tank Leak; UN-100-N-5, UPR-100-N-25; UN-100-N-25; Uncontrolled Venting of 1310-N Tank, Attachment to Waste Site Reclassification Forms 2013-015, 2013-016, 2013-017, Washington Closure Hanford, Richland, Washington.*

11
~~10~~

Attachment 12

174860

^WCH Document Control

From: Saueressig, Daniel G
Sent: Monday, February 24, 2014 9:03 AM
To: ^WCH Document Control
Subject: FW: MACRO CAN AT N

Please provide a chron number. This email documents a regulatory agreement.

Thanks,

Dan Saueressig
FR Environmental Project Lead
Washington Closure Hanford
521-5326

From: Elliott, Wanda (ECY) [mailto:well461@ECY.WA.GOV]
Sent: Monday, February 24, 2014 7:11 AM
To: Saueressig, Daniel G
Cc: Chance, Joanne C
Subject: RE: MACRO CAN AT N

I concur. Please let me know when the task is completed.

Wanda Elliott
(509) 372-7904
Environmental Scientist
Nuclear Waste Program
Washington State Department of Ecology



From: Saueressig, Daniel G [mailto:dgsauere@wch-rcc.com]
Sent: Monday, February 24, 2014 6:53 AM
To: Elliott, Wanda (ECY)
Cc: Chance, Joanne C
Subject: FW: MACRO CAN AT N



Hi Wanda, 100-N has an ERDF can that they are accumulating lead debris from various locations for eventual macro-encapsulation at ERDF (this is the standard treatment option for lead solids). In the process of accumulation, the packaging requirements have changed so that now we need to unload and repackage these items to meet the ERDF waste acceptance criteria. This criterion requires plastic or steel pallets to line the bottom and sides of the container, which our old can does not have. In addition to the lead solids, some PPE and other misc. non-lead debris were placed into the can. These items are not approved for macro-encapsulation and need to be removed. The lead items have been collected from various locations but unfortunately we can't return the material to the sites of origin because they are in the process of being closed out. The debris isn't radiologically contaminated but it was placed into a radiologically controlled ERDF can so it has to be managed as rad. material. We propose unloading the can into 100-N-82 (former decontamination pad), which is posted as a CA and then reload the lead into a macro-encapsulation compliant ERDF can. The 100-N-82 decontamination pad is concrete and we plan to lay plastic down prior to unloading the material. Per section 3.1.2 of the 100-N RDR (third bullet on page 3-2) lead regulatory agency approval is required prior to returning LDR waste back into an AOC. Lead is a COPC for 100-N-82, so placing this material in this location briefly for reloading shouldn't cause a problem with closure of the site.

Let me know if you concur.

Thanks and give me a call if you have any question.

Dan Saueressig
FR Environmental Project Lead
Washington Closure Hanford
521-5326

① 12

Attachment 13

174825

^WCH Document Control

From: Saueressig, Daniel G
Sent: Tuesday, February 18, 2014 3:40 PM
To: ^WCH Document Control
Subject: FW: BACKFILL/REGRAIDING PLAN

Attachments: 100N REGRADE Backfill Design.pdf; DOE APPROVAL BACKFILLREGRAIDING PLAN.rtf

Please provide a chron number (and include the attachments). This email documents a regulatory approval.

Thanks,

Dan Saueressig
FR Environmental Project Lead
Washington Closure Hanford
521-5326

From: Elliott, Wanda (ECY) [mailto:well461@ECY.WA.GOV]
Sent: Tuesday, February 18, 2014 1:57 PM
To: Saueressig, Daniel G; Chance, Joanne C
Cc: Biebrich, Ernest J
Subject: RE: BACKFILL/REGRAIDING PLAN

I approve of the contour plan as outlined.

Wanda Elliott
(509) 372-7904
Environmental Scientist
Nuclear Waste Program
Washington State Department of Ecology



From: Saueressig, Daniel G [mailto:dgsauere@wch-rcc.com]
Sent: Tuesday, February 18, 2014 6:38 AM
To: Elliott, Wanda (ECY); Chance, Joanne C
Cc: Biebrich, Ernest J
Subject: BACKFILL/REGRAIDING PLAN

Wanda/Joanne, attached for your approval is a drawing depicting the final grade we'd like to propose for the area west of N Reactor. We believe the grade will help ensure stable sloping while protecting the area from run-off events that could create gulley's or negative impacts to the area.

Let me know if you approve of the final contour plan for this area.

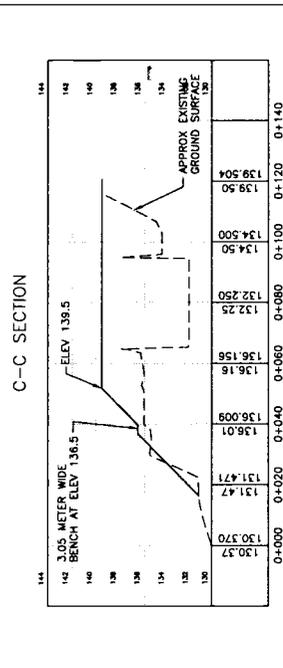
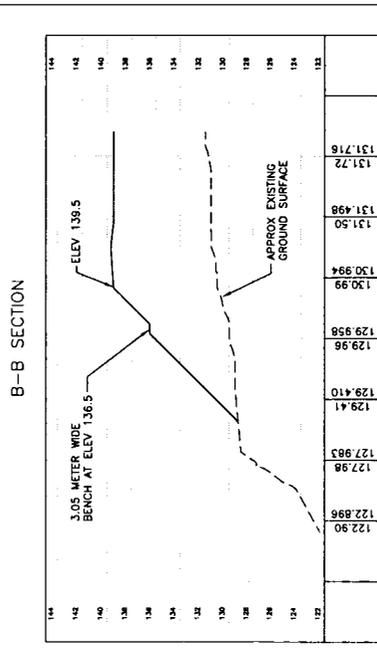
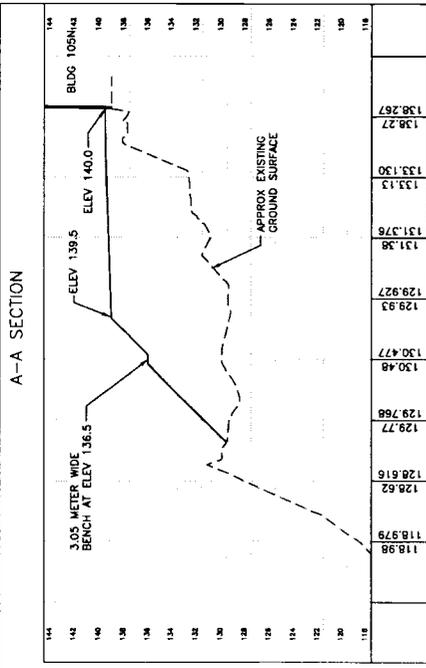
Thanks,

Dan Saueressig
FR Environmental Project Lead
Washington Closure Hanford
521-5326

<< File: 100N REGRADE Backfill Design.pdf >>

1

\\PROG001\CD\PROJECTS\010\NATION BACKFILL\TASK\NATION REBAR\GENERAL DESIGN 1-2014.DWG



NOTE: IDENTIFIED STOCKPILE MATERIAL TO BE PLACED IN DEEP ZONE AREAS OF ZONE 2 PRIOR TO GENERAL BACKFILL. DEEP ZONE BACKFILL SHALL BE PLACED TO A MAXIMUM ELEVATION OF 134.6 IN AREAS WHERE A MINIMUM OF 7.6 METERS OF GENERAL FILL IS ACHIEVED ABOVE THE DEEP ZONE BACKFILL TO FINAL GRADE SHOWN.

Point #	Existing	Proposed	Elevation	Description
1	571135.28	148523.87	138.50	F3
2	571116.80	148522.28	138.50	F3
3	571075.08	148446.82	138.50	F3
4	571014.28	148328.67	138.50	F3
5	571011.12	148246.20	138.50	F3
6	285532.09	74703.10	138.50	F3
7	571094.15	148451.80	138.50	F3
8	571107.23	148506.82	138.50	F3
9	571128.05	148583.43	138.50	F3
10	571123.27	148584.27	138.50	F3
11	285438.27	74664.74	138.50	F3
12	571104.79	148558.13	138.50	F3
13	571081.42	148453.15	138.50	F3
14	571007.86	148348.46	138.50	F3
15	285048.11	74606.11	138.50	F3
16	571188.87	148530.86	138.50	F3
17	571180.05	148533.18	140.00	F3
18	571181.25	148524.84	140.00	F3
19	571177.13	148524.84	140.00	F3
20	571177.86	148526.10	140.00	F3
21	571178.46	148526.50	140.00	F3
22	571187.41	148518.28	140.00	F3
23	571178.38	148512.52	140.00	F3
24	571170.05	148497.62	140.00	F3
25	571154.80	148481.27	140.00	F3
26	571173.84	148471.32	140.00	F3
27	571153.88	148468.85	138.50	F3

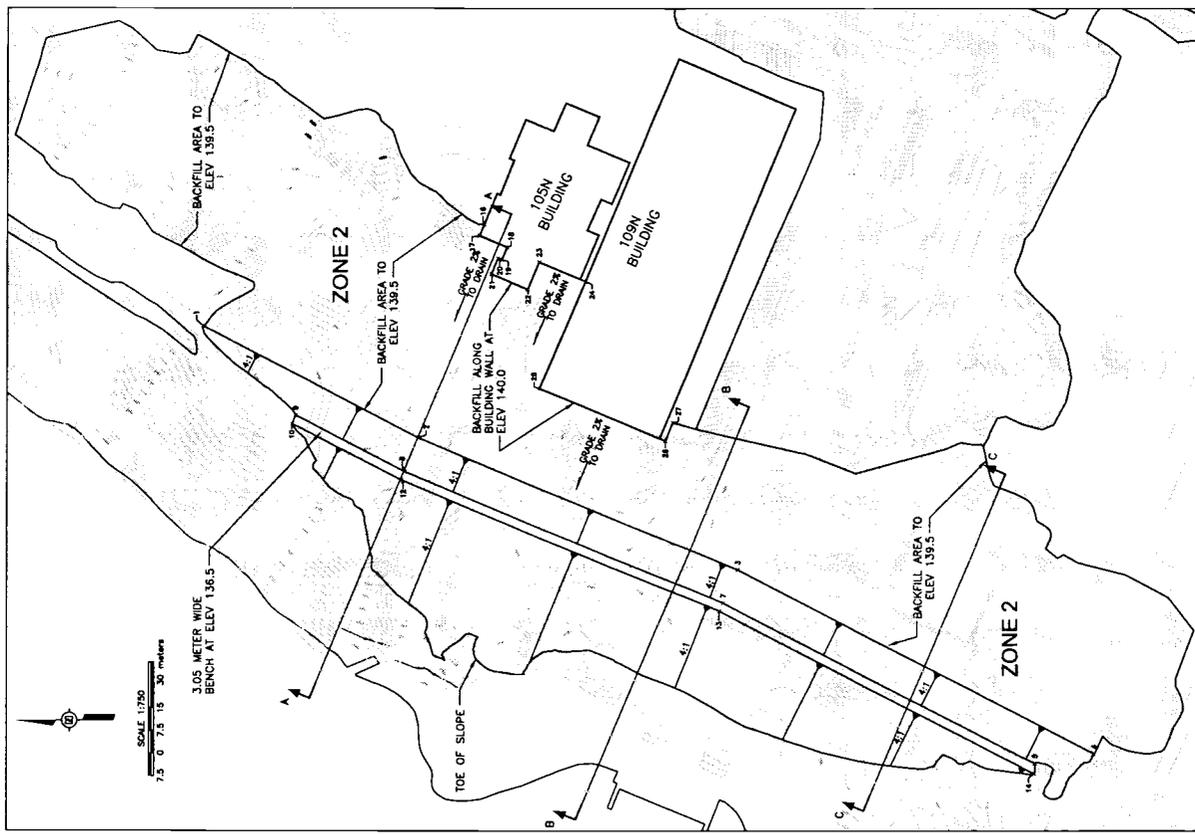


FIGURE 2 - ZONE 2 BACKFILL SITE BOUNDARIES AND SECTIONS

From: Chance, Joanne C [joanne.chance@rl.doe.gov]
Sent: Tuesday, February 18, 2014 12:46 PM
To: Saueressig, Daniel G
Cc: Elliott, Wanda
Subject: RE: BACKFILL/REGRADING PLAN

Hi Dan,

I approve of the attached backfill/regarding plan. Thanks.

Joanne C. Chance
U.S. Department of Energy
Office of Assistant Manager for River and Plateau
825 Jadwin Ave / MSIN A3-04
Richland, WA 99352
(509) 376-0811

From: Saueressig, Daniel G [mailto:dgsauere@wch-rcc.com]
Sent: Tuesday, February 18, 2014 6:38 AM
To: Elliott, Wanda; Chance, Joanne C
Cc: Biebrich, Ernest J
Subject: BACKFILL/REGRADING PLAN

Wanda/Joanne, attached for your approval is a drawing depicting the final grade we'd like to propose for the area west of N Reactor. We believe the grade will help ensure stable sloping while protecting the area from run-off events that could create gulley's or negative impacts to the area.

Let me know if you approve of the final contour plan for this area.

Thanks,

Dan Saueressig
FR Environmental Project Lead
Washington Closure Hanford
521-5326

<< File: 100N REGRADE Backfill Design.pdf >>

13
④

Attachment 14

^WCH Document Control

From: Saueressig, Daniel G
Sent: Tuesday, February 18, 2014 8:07 AM
To: ^WCH Document Control
Subject: FW: ASBESTOS ENCOUNTERED AT N

Please provide a chron number. This email documents a regulatory agreement.

Thanks,

Dan Saueressig
FR Environmental Project Lead
Washington Closure Hanford
521-5326

-----Original Message-----

From: Guzzetti, Christopher [mailto:Guzzetti.Christopher@epa.gov]
Sent: Tuesday, February 18, 2014 7:27 AM
To: Saueressig, Daniel G
Subject: RE: ASBESTOS ENCOUNTERED AT N

I think you captured what we discussed. Sounds good.

Christopher J. Guzzetti
Project Manager
Hanford Project Office
U.S. Environmental Protection Agency
309 Bradley Boulevard, Suite 115
Richland, WA 99352

Phone: (509) 376-9529
Fax: (509) 376-2396
Email: guzzetti.christopher@epa.gov

-----Original Message-----

From: Saueressig, Daniel G [mailto:dgsauere@wch-rcc.com]
Sent: Thursday, February 06, 2014 4:06 PM
To: Guzzetti, Christopher
Cc: Elliott, Wanda; Chance, Joanne C; Biebrich, Ernest J
Subject: ASBESTOS ENCOUNTERED AT N

Chris, per our phone conversation yesterday I wanted to follow-up with an email summarizing our discussion. We encountered an abandoned irrigation line at 100-N that is surrounded with asbestos (TSI) inside a metal cover, see attached photos. The irrigation line runs parallel with the pipeline we are excavating to remove (100-N-84:6) and is about 18 inches below ground. When we encountered the irrigation line a small amount of asbestos fell to the ground (again, less than 1/2 pound), we immediately covered the pipe with plastic and soil, posted the area for the asbestos hazard while we

finalize plans to remove the pipe. Consistent with how we plan to handle the asbestos encountered at 100-H, we plan to carefully excavate/expose the pipeline, shear it into 15-16 foot lengths (to fit into an ERDF can) while we keeping it adequately wet (water will be applied during the shearing process) and the pipe will be immediately placed into a double lined ERDF can for disposal. In addition, all soil containing any visible asbestos will also be immediately loaded into an ERDF can for disposal while maintaining it adequately wet.

Let me know if you concur with this summary of our discussion. The project estimates approximately 28 meters of the pipeline will need to be removed to support remediation of the underlying pipeline that is the target of our remediation.

In addition, as we discussed yesterday, we may have to cut the interfering pipeline at 100-H discussed at the bottom of this email string into 2 sections (3 cuts total) if the length of the pipe is too long to fit into an ERDF can.

Thanks and give me a call if you have any questions.

Dan Saueressig
FR Environmental Project Lead
Washington Closure Hanford
521-5326

-----Original Message-----

From: Guzzetti, Christopher [mailto:Guzzetti.Christopher@epa.gov]
Sent: Wednesday, January 08, 2014 4:23 PM
To: Saueressig, Daniel G; Strom, Dean N; Glossbrenner, Ellwood T; Kapell, Arthur
Subject: FW: ASBESTOS ENCOUNTERED AT H

See message below from John.

Christopher J. Guzzetti
Project Manager
Hanford Project Office
U.S. Environmental Protection Agency
309 Bradley Boulevard, Suite 115
Richland, WA 99352

Phone: (509) 376-9529
Fax: (509) 376-2396
Email: guzzetti.christopher@epa.gov

-----Original Message-----

From: Pavitt, John
Sent: Wednesday, January 08, 2014 3:36 PM
To: Guzzetti, Christopher
Subject: RE: ASBESTOS ENCOUNTERED AT H

Hi Chris. The approach sounds appropriate to me. 61.145(c)(2) pertains to activities where sections

of pipe are removed with asbestos still attached to the pipe (or other building component as the case may be). By following this approach the contractor is required to keep the material on the pipe adequately wet and after removing it from the ground place it immediately into leak tight wrapping, or, strip it prior to disposal. From the description provided, it sounds like they will do the former.

Even though this job is very small and is below the regulatory threshold, I do believe that the facility has an Annual Notification on file with Benton County which addresses these types of small jobs that over the course of a year exceed the regulatory threshold. That means that they are required to comply with the NESHAP (it is a regulated project under NESHAP).

Thanks,

John Pavitt
EPA Region 10, Alaska Operations Office
(907) 271-3688

For general information on asbestos, see EPA's National website: <http://www2.epa.gov/asbestos>

Notifications for projects in Alaska, Idaho and Tribal Lands should be mailed to:
Asbestos NESHAP Coordinator
US EPA, Region 10 (OCE-127)
1200 Sixth Ave., Suite 900
Seattle, WA 98101

-----Original Message-----

From: Guzzetti, Christopher
Sent: Wednesday, January 08, 2014 7:28 AM
To: Pavitt, John
Subject: FW: ASBESTOS ENCOUNTERED AT H

Hello John,

I did see your email to Chris Strand about the BC area clear wells. Thank you. Here is another one that I got today. Their approach seems appropriate to me. What do you think?

Christopher J. Guzzetti
Project Manager
Hanford Project Office
U.S. Environmental Protection Agency
309 Bradley Boulevard, Suite 115
Richland, WA 99352

Phone: (509) 376-9529
Fax: (509) 376-2396
Email: guzzetti.christopher@epa.gov

-----Original Message-----

From: Saueressig, Daniel G [<mailto:dgsauere@wch-rcc.com>]
Sent: Wednesday, January 08, 2014 6:47 AM
To: Guzzetti, Christopher
Cc: Kapell, Arthur; Glossbrenner, Ellwood T; Strom, Dean N

Subject: ASBESTOS ENCOUNTERED AT H

Chris, we encountered what we thought was a concrete sewer line intersecting a portion of the 100-H-28:3 excavation on 12/17/13. When the pipe was breached it was found to contain small amounts of asbestos (TSI) surrounding a metal steam line. A small amount of asbestos (less than half a pound) fell to the ground when the pipe was breached. The pipe and asbestos were immediately covered and the area was posted for asbestos controls while plans to remove the intersecting line are being finalized. This pipeline is not part of the 100-H-28:3, just a line that intersects the excavation.

The project would like to remove this small piece of pipe (less than 20 feet) in one piece as allowed by 40 CFR 61.145(c)(2), keeping it adequately wet during the disjoining operation and handling the section in a manner to prevent damaging or disturbing the RACM left in place. Although the asbestos is TSI, the length of piping we are dealing with is less than the amount regulated under the NESHAP (less than 260 lineal feet). Like I stated above, wet methods will be used and the pipe will be removed in a single section allowing direct load out into a double lined ERDF container. The remaining pipeline (which is not part of our remediation scope) in the layback of the excavation will be covered with soil to preclude future releases.

Let me know if you concur with our path forward or have any questions.

Thanks,

Dan Saueressig
FR Environmental Project Lead
Washington Closure Hanford
521-5326

Attachment 15

174871

^WCH Document Control

From: Saueressig, Daniel G
Sent: Tuesday, February 25, 2014 6:14 AM
To: ^WCH Document Control
Subject: FW: 100-N-100: Additional Remediation and Resampling Request
Attachments: 100-N-100 additional remediation and resampling request.doc

Please provide a chron number (and include the attachment). This email documents a regulatory agreement.

Thanks,

Dan Saueressig
FR Environmental Project Lead
Washington Closure Hanford
521-5326

From: Chance, Joanne C [mailto:joanne.chance@rl.doe.gov]
Sent: Monday, February 24, 2014 4:38 PM
To: Jakubek, Joshua E
Cc: Dobie, Chad H; Howell, Theresa Q; Saueressig, Daniel G; Biebrich, Ernest J; Elliott, Wanda
Subject: RE: 100-N-100: Additional Remediation and Resampling Request

Hi Josh,

I concur also. Thanks.

Joanne C. Chance
U.S. Department of Energy
Office of Assistant Manager for River and Plateau
825 Jadwin Ave / MSIN A3-04
Richland, WA 99352
(509) 376-0811

From: Elliott, Wanda (ECY) [mailto:well461@ecy.wa.gov]
Sent: Wednesday, February 19, 2014 10:52 AM
To: Jakubek, Joshua E; Chance, Joanne C; Chance, Joanne C
Cc: Dobie, Chad H; Howell, Theresa Q; Saueressig, Daniel G; Biebrich, Ernest J
Subject: RE: 100-N-100: Additional Remediation and Resampling Request

I concur.

Wanda Elliott
(509) 372-7904
Environmental Scientist
Nuclear Waste Program
Washington State Department of Ecology



From: Jakubek, Joshua E [<mailto:jejakube@wch-rcc.com>]
Sent: Wednesday, February 19, 2014 9:21 AM
To: Elliott, Wanda (ECY); Chance, Joanne C; 'Chance, Joanne C'
Cc: Dobie, Chad H; Howell, Theresa Q; Saueressig, Daniel G; Biebrich, Ernest J
Subject: 100-N-100: Additional Remediation and Resampling Request

Good Morning! Per our discussion in yesterday's interface meeting; I have attached the Additional Remediation and Resampling Request for 100-N-100.

Please let me know if you concur with this approach or if you have any questions.

<< File: 100-N-100 additional remediation and resampling request.doc >>

Thanks,

Josh Jakubek
Washington Closure Hanford
Resident Engineer
509-942-4703

100-N-100 Waste Site Additional Remediation and Resampling Request

Background Information

The 100-N-100, 100-N Oil Filters #4 waste site consisted of four oil filters in an area of crusted soil and no vegetation. Verification sampling was conducted on February 4, 2014 as per the approved *Work Instruction for Verification Sampling of the 100-N-100, 100-N Oil Filters #4* (WCH 2014). Due to the small size of the excavation, two focused samples (Area 1 and Area 2 sample locations), as well as one duplicate, split, and equipment blank were collected from the waste site.

The main sample from Area 2, and the duplicate sample taken from Area 1 both failed direct exposure remedial action goals for total petroleum hydrocarbons (TPH).

Recommendation for Path Forward

Washington Closure Hanford proposes additional soil to be removed from the floor of Areas 1 and 2 of the 100-N-100 excavation. A post-remediation photograph of the 100-N-100 waste site is provided in Figure 1. The depth of additional soil removal will be between 30.5 to 45.7 cm (12 to 18 in.) depending on observations in the field (e.g., discolored or stained soil, debris, etc.).

Following additional soil removal, replacement samples will be collected and analyzed for the entire list of COPCs since the entire excavation is being further remediated. A sample summary is provided in Table 1.

Figure 1. Photograph of the 100-N-100 Post-Remediation.



Table 1. 100-N-100 Verification Sample Summary Table.

Sample Location ^a	HEIS Sample Number	Washington State Plane Coordinates (m)		Sample Analysis
		Northing	Easting	
Area 1	TBD	TBD	TBD	ICP metals ^b , mercury, PAH, PCB, and TPH
Area 2	TBD	TBD	TBD	
Duplicate ^c	TBD	TBD	TBD	
Split ^c	TBD	TBD	TBD	
Equipment blank	TBD	NA	NA	ICP metals ^c , mercury

^a Discrete, focused grab samples will be collected from each location for analysis. Samples from Area 1 and Area 2 will be collected from the center of each area, which corresponds to the oil filter locations (Figure 1) at the discretion of the Project Analytical Lead. All sample location coordinates will be surveyed at the time of sample collection and recorded in the field logbook.

^b Analysis for the expanded list of ICP metals will be performed to include antimony, arsenic, barium, beryllium, boron, cadmium, chromium (total), cobalt, copper, lead, manganese, molybdenum, nickel, selenium, silver, vanadium, and zinc.

^c One duplicate and one split sample will be collected. The split and the duplicate shall be collected at the same location; however, the location will be at the discretion of the project analytical lead.

HEIS = Hanford Environmental Information System

ICP = inductively coupled plasma

NA = not applicable

PAH = polycyclic aromatic hydrocarbons

PCB = polychlorinated biphenyls

TBD = to be determined

TPH = total petroleum hydrocarbons

REFERENCES

WCH, 2014, *Work Instruction for Verification Sampling of the 100-N-100, 100-N Oil Filters #4*, 0100N-WI-G0082, Rev. 0, Washington Closure Hanford, Richland, Washington.

15
~~14~~

Attachment 16

Darby, John W	john.darby@wch-rcc.com	L6-06	WCH	
Fancher, Jonathan D (Jon)	jon.fancher@wch-rcc.com	L6-06	WCH	
Faulk, Darrin E	defaulk@wch-rcc.com	L6-06	WCH	
Hadley, Karl A	karl.hadley@wch-rcc.com	H4-21	WCH	<i>K.A. Hadley</i>
Hedel, Charles W	charles.hedel@wch-rcc.com	H4-22	WCH	
Lawrence, Barry L	bllawren@wch-rcc.com	T2-03	WCH	
Lerch, Jeffrey A	jeffrey.lerch@wch-rcc.com	H4-22	WCH	
McCurley, Clay D	cdmccurl@wch-rcc.com	X5-50	WCH	
Myer, Robin S	rsmyers@wch-rcc.com	L6-06	WCH	
Obenauer, Dale F	dale.obenauer@wch-rcc.com	X2-05	WCH	
Parnell, Scott E	scott.parnell@wch-rcc.com	N3-21	WCH	
Proctor, Megan	Megan.Proctor@wch-rcc.com	H4-22	WCH	
Saueressig, Daniel G	Daniel.Saueressig@wch-rcc.com	X2-07	WCH	
Strand, Chris	cpstrand@wch-rcc.com	L1-07	WCH	
Strom, Dean N	dean.strom@wch-rcc.com	X3-40	WCH	<i>Dean Strom</i>
Thompson, Wendy	wsthomps@wch-rcc.com	H4-21	WCH	
Thomson, Jill E	thomson@wch-rcc.com	H4-21	WCH	
Wright, Bryan D	bdwright@wch-rcc.com	X3-40	WCH	
Yasek, Donna	Donna.yasek@wch-rcc.com	H4-22	WCH	
<i>Dobie, Chad</i>	<i>chdobie@wch-rcc.com</i>	<i>H4-21</i>	<i>WCH</i>	<i>Chad Dobie</i>

Attachment B

100/300 Area UMM
Action List
March 13, 2014

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Status
O	100-198	RL	M. Thompson	100-N	DOE will sample the C7935 and C7936 aquifer tubes at 100-N Area in August 2013. If the sample results are high or inclining, or if the sample results are not available, the samples will be repeated in September 2013.	Open: 5/9/13; Action: Closed 2/13/14

Attachment C

100/300 Area Unit Manager Meeting
March 13, 2014
Washington Closure Hanford Building
2620 Fermi Avenue, Richland, WA 99354
Room C209; 2:00p.m.

Administrative:

- Approval and signing of previous meeting minutes (February 13, 2014)
- Update to Action Items List
- Next UMM (4/10/2014, Room C209)

Open Session: Project Area Updates - Groundwater, Field Remediation, D4/ISS:

- 100-K Area (Jim Hanson, Ellwood Glossbrenner, Roger Quintero)
- 100-B/C Area (Greg Sinton, Tom Post)
- 100-N Area (Joanne Chance, Rudy Guercia, Mike Thompson)
- 100-D & 100-H Areas (Jim Hanson, Tom Post, Elwood Glossbrenner)
- 100-F & 100-IU-2/6 Areas (Greg Sinton, Tom Post, Ellwood Glossbrenner)
- 300 Area - 618-10/11 exclusively (Jamie Zeisloft)
- 300 Area (Mike Thompson/Rudy Guercia)
- Mission Completion Project (Jamie Zeisloft)

Special Topics/Other

Adjourn

Activity ID	Activity Name	% Cmpl	RD	Start	Finish	March 2014	April 2014	May 2014	June 2014	July 2014	August 2014							
100 D						2	0	1	1	2	3	0	1	2	0	1	1	2

Activity ID	Activity Name	% Cmpl	RD	Start	Finish
Excavation					
100D104A385	Excavate 100-D-104 Tier 3 Plume	100%	0	14-Nov-13 A	03-Mar-14 A
CBB0516FCDD	Excavate 100-D-31:1&12 Phase 1 (32,800 BCM BCL) FINISH...	99%	4	03-Dec-13 A	06-Mar-14
100D100A311Q	Excavate 100-D-100: Plume 4	100%	0	03-Mar-14 A	03-Mar-14 A
CBB0537A	Excavate 100-D-72 (5,306 BCM)	0%	4	10-Mar-14*	13-Mar-14
CBB0541A	Excavate 100-D-83:3 (182 BCM)	0%	0	09-Apr-14	09-Apr-14
CBB0543A	Excavate 100-D-84:2 (634 BCM)	0%	1	09-Apr-14	09-Apr-14
CBB0548A	Excavate 100-D-97 (128 BCM)	0%	0	09-Apr-14	09-Apr-14
CBC0518A	Excavate 100-D-106 - (5,412 BCM)	0%	6	09-Apr-14	21-Apr-14
CBB0547A	Excavate 100-D-96:2 - (145 BCM)	0%	1	21-Apr-14	22-Apr-14
CBB0550A	Excavate 100-D-99 - (567 BCM)	0%	1	22-Apr-14	23-Apr-14
CBB0535A	Excavate 100-D-69 - (1,754 BCM)	0%	3	23-Apr-14	29-Apr-14
CBB0545A	Excavate 100-D-86:1 (5,200 BCM) **RAD**	0%	6	29-Apr-14	07-May-14
CBB0545AA10	Demo 100-D-86:1 (5,200 BCM) **RAD**	0%	2	29-Apr-14*	01-May-14
CBB0544A	Excavate 100-D-85:2 (7,400 BCM) **RAD**	0%	8	08-May-14	21-May-14
DMS070A	Excavation Campaign Complete 100D	0%	0	0	21-May-14
Loadout					
100D100A372	Loadout 100-D-100 Tier 3	82%	54	02-Sep-13 A	04-Jun-14
100D104A312	Loadout 100-D-104 Tier 3 (MHVs -27,375 Tons)	99%	10	17-Sep-13 A	20-Mar-14
RD100D30A42	Loadout 100-D-30 Plume Loadout (MHVs - 97,600 Tons)	63%	61	14-Oct-13 A	17-Jun-14
100D100A422	LDR for 100-D Area (60,000)	51%	50	06-Jan-14 A	28-May-14
CBB0542B	Loadout 100-D-83:5	99%	17	21-Jan-14 A	31-Mar-14
CBB0534B	Loadout 100-D-81 5,318 Tons	0%	4	14-Apr-14*	17-Apr-14
CBB0541B	Loadout 100-D-83:3 (Blue Dot Containers - 174 Tons)	0%	0	14-Apr-14*	14-Apr-14
CBB0548B	Loadout 100-D-97 (Blue Dot Containers - 45 Tons)	0%	0	14-Apr-14	14-Apr-14
CBB0543B	Loadout 100-D-84:2 (Blue Dot Cans - 280 Tons)	0%	0	14-Apr-14	14-Apr-14
CBB0556B	Loadout 147-D ISRM Pond	0%	28	14-May-14	02-Jul-14
CBB0513B1	Loadout 1607-D2:5 (112 Tons) MHVs	0%	1	14-May-14*	14-May-14
CBB0516G	Loadout 100-D-31:1&12 (Blue Dot - 17,360 Tons)	0%	6	19-May-14*	28-May-14
DMS080A10	Loadout Campaign complete (LDR)	0%	0	0	28-May-14
100D104A375	Loadout 100-D-104 Tier 3 Plume (MHVs 49,335 tons)	0%	23	29-May-14	10-Jul-14
100D104A345	Loadout 100-D-104 Tier 3 BlueDot	0%	3	05-Jun-14*	10-Jun-14
CBB0545B	Loadout 100-D-86:1 (Orange Cans -)	0%	2	11-Jun-14	12-Jun-14
CBB0547B	Loadout 100-D-96:2 - (3 Tons) MHVs	0%	0	18-Jun-14	18-Jun-14
CBB0550B	Loadout 100-D-99 - (281 Tons) MHVs	0%	1	18-Jun-14	19-Jun-14
CBC0518B	Loadout 100-D-106 - (11,906 Tons) MHVs	0%	6	19-Jun-14*	01-Jul-14
CBB0544B	Loadout 100-D-85:2 (RAD) OrangeCans	0%	1	24-Jun-14*	24-Jun-14
DMS090B	Loadout Campaign Complete (ERDF Containers) 100H	0%	0	0	26-Jun-14

SPIF Bar
 Remaining Work
 Critical Remaining Work
 Actual Critical Work
 Remaining Level of Effort

Data Date: 03-Mar-14
 Page 1 of 2
 CPP 100-D - Current - After FR525 Rev. 2...
 TASK filter: 100-DH POW Content.



16
~~5~~

Attachment 17

174850

^WCH Document Control

From: Saueressig, Daniel G
Sent: Monday, February 24, 2014 6:00 AM
To: ^WCH Document Control
Subject: FW: NON-CONTIGUOUS ONSITE APPROVAL

Please provide a chron number. This email documents a regulatory approval.

Thanks,

Dan Saueressig
FR Environmental Project Lead
Washington Closure Hanford
521-5326

From: Guzzetti, Christopher [mailto:Guzzetti.Christopher@epa.gov]
Sent: Friday, February 21, 2014 7:20 AM
To: Saueressig, Daniel G
Cc: Kapell, Arthur; Glossbrenner, Ellwood T
Subject: RE: NON-CONTIGUOUS ONSITE APPROVAL

I concur with this approach.

Christopher J. Guzzetti
Project Manager
Hanford Project Office
U.S. Environmental Protection Agency
309 Bradley Boulevard, Suite 115
Richland, WA 99352

Phone: (509) 376-9529
Fax: (509) 376-2396
Email: guzzetti.christopher@epa.gov

From: Saueressig, Daniel G [mailto:dqsauere@wch-rcc.com]
Sent: Thursday, February 20, 2014 6:35 AM
To: Guzzetti, Christopher
Cc: Kapell, Arthur; Glossbrenner, Ellwood T
Subject: NON-CONTIGUOUS ONSITE APPROVAL

Chris, we have a couple of septic tanks that have been taken out of service and we are preparing to close them in accordance with the Department of Health requirements. We will be pulling the mercury float switches from the septic holding tanks at 100-K and 100-H and I'd like to request your approval to move the switches to the 100-D Area, where we currently have a drum holding some mercury for recycle. The mercury will be sent to the Centralized/Consolidation Recycle Center operated by MSA for recycle.

2/24/2014

Thanks and give me a call if you have any questions.

Dan Saueressig
FR Environmental Project Lead
Washington Closure Hanford
521-5326

Attachment 18

Activity ID	Activity Name	% Cmpl	RD	Start	Finish	M	April 2014	May 2014	June 2014	July 2014	A
600-326											
Excavation											
IU222640	Excavation 600-326 (IU-6) *CULTURAL HOLD	0%	3	08-Sep-15*	10-Sep-15						
Loadout											
IU222650	Loadout 600-326 *CULTURAL HOLD	0%	3	14-Sep-15*	16-Sep-15						
Closure Sampling & Docs											
IU222710	Closure Sampling 600-326	0%	26	01-Oct-15	16-Nov-15						
Final Project Closeout											
IU222720	Prepare Closure Document 600-326	0%	83	17-Nov-15	19-Apr-16						
IU222730	RL/Reg Review of Draft A Closure Document 600-326	0%	26	28-Jan-16	15-Mar-16						
IU222740	RL/Reg Signature Rev.0 Closure Document 600-326	0%	4	13-Apr-16	19-Apr-16						
Backfill											
IU222660	Backfill 600-326	0%	1	20-Apr-16*	20-Apr-16						
Revegetation											
IU222680	Revegetation 600-326	0%	1	21-Nov-16*	21-Nov-16						
Culture Resource Reviews											
IU225110	Cultural / Eco Clearance 600-326 *CULTURAL HOLD	5%	123	26-Jun-13 A	30-Sep-14						
600-383											
Excavation											
IU225450	Excavation 600-383 (D/H Boundary Site)	98%	1	31-Oct-13 A	24-Feb-14						
Loadout											
IU225350	Loadout 600-383	98%	1	31-Oct-13 A	24-Feb-14						
Closure Sampling & Docs											
IU225370	Closure Sampling 600-383	50%	24	11-Feb-14 A	03-Apr-14						
Final Project Closeout											
IU225380	Prepare Closure Document 600-383	0%	93	07-Apr-14	18-Sep-14						
IU225390	RL/Reg Review of Draft A Closure Document 600-383	0%	26	11-Jun-14	28-Jul-14						
IU225400	RL/Reg Signature Rev.0 Closure Document 600-383	0%	4	26-Aug-14	02-Sep-14						
Backfill											
IU225430	Backfill 600-383	0%	1	22-Sep-14	22-Sep-14						
Revegetation											
IU225440	Revegetation 600-383	0%	8	10-Nov-14*	20-Nov-14						
600-384											
Excavation											

Activity ID	Activity Name	% Cmpl	RD Start	Finish	M	April 2014	May 2014	June 2014	July 2014	A			
IU225560	Excavation 600-384 (D/H Boundary Site)	98%	10 04-Nov-13 A	11-Mar-14	1	2	0	1	1	2	0	1	1
Loadout													
IU225460	Loadout 600-384	98%	10 04-Nov-13 A	11-Mar-14									
Closeout Sampling & Docs													
IU225480	Closure Sampling 600-384	0%	26 12-Mar-14	24-Apr-14									
Final Project Closeout													
IU225490	Prepare Closure Document 600-384	0%	93 28-Apr-14	09-Oct-14									
IU225500	RL/Reg Review of Draft A Closure Document 600-384	0%	26 02-Jul-14	18-Aug-14									
IU225510	RL/Reg Signature Rev.0 Closure Document 600-384	0%	4 17-Sep-14	23-Sep-14									
Backfill													
IU225540	Backfill 600-384	0%	1 13-Oct-14	13-Oct-14									
Revegetation													
IU225550	Revegetation 600-384	0%	8 10-Nov-14*	20-Nov-14									
600-382													
Excavation													
IU225340	Excavation 600-382 (D/H Boundary Site)	98%	2 29-Oct-13 A	13-Mar-14									
Loadout													
IU225240	Loadout 600-382	98%	2 29-Oct-13 A	13-Mar-14									
Closeout Sampling & Docs													
IU225260	Closure Sampling 600-382	0%	26 17-Mar-14	29-Apr-14									
Final Project Closeout													
IU225270	Prepare Closure Document 600-382	0%	93 30-Apr-14	14-Oct-14									
IU225280	RL/Reg Review of Draft A Closure Document 600-382	0%	26 08-Jul-14	20-Aug-14									
IU225290	RL/Reg Signature Rev.0 Closure Document 600-382	0%	4 22-Sep-14	25-Sep-14									
Backfill													
IU225320	Backfill 600-382	0%	1 15-Oct-14	15-Oct-14									
Revegetation													
IU225330	Revegetation 600-382	0%	8 10-Nov-14*	20-Nov-14									
600-356													
Excavation													
IU226500	Plume Chase 600-356 (Segment 1)	98%	1 05-Dec-13 A	24-Feb-14									
Closeout Sampling & Docs													
IU226040	Closure Sampling 600-356	0%	26 24-Feb-14*	08-Apr-14									
Final Project Closeout													
IU226050	Prepare Closure Document 600-356	0%	93 09-Apr-14	23-Sep-14									

Activity ID	Activity Name	% Cmpl	RD Start	Finish	M	April 2014	May 2014	June 2014	July 2014	A
Backfill										
IU224990	Backfill 600-379	0%	1 07-Jul-14	07-Jul-14	1	2	0	1	1	2
Revegetation										
IU225000	Revegetation 600-379	0%	12 10-Nov-14*	02-Dec-14	1	2	0	1	1	2
600-378										
Excavation										
IU224900	Excavation 600-378	98%	1 17-Dec-13 A	24-Feb-14	1	2	0	1	1	2
Loadout										
IU224800	Loadout 600-378	98%	1 17-Dec-13 A	24-Feb-14	1	2	0	1	1	2
Closeout Sampling & Docs										
IU224860	Prepare Work Instruction 600-378	95%	1 16-Jan-14 A	24-Feb-14	1	2	0	1	1	2
IU224810	RL/Reg Signature Rev.0 WI 600-378	100%	0 06-Feb-14 A	18-Feb-14 A	1	2	0	1	1	2
IU224820	Closure Sampling 600-378	0%	26 11-Mar-14	23-Apr-14	1	2	0	1	1	2
Final Project Closeout										
IU224830	Prepare Closure Document 600-378	0%	93 24-Apr-14	08-Oct-14	1	2	0	1	1	2
IU224840	RL/Reg Review of Draft A Closure Document 600-378	0%	26 01-Jul-14	14-Aug-14	1	2	0	1	1	2
IU224850	RL/Reg Signature Rev.0 Closure Document 600-378	0%	4 16-Sep-14	22-Sep-14	1	2	0	1	1	2
Backfill										
IU224880	Backfill 600-378	0%	1 09-Oct-14	09-Oct-14	1	2	0	1	1	2
Revegetation										
IU224890	Revegetation 600-378	0%	12 10-Nov-14*	02-Dec-14	1	2	0	1	1	2
600-279										
Final Project Closeout										
IU223290	Prepare Closure Document 600-279	76%	41 12-Dec-13 A	05-May-14	1	2	0	1	1	2
IU223300	RL/Reg Review of Draft A Closure Document 600-279	50%	15 03-Feb-14 A	19-Mar-14	1	2	0	1	1	2
IU223310	RL/Reg Signature Rev.0 Closure Document 600-279	0%	4 17-Apr-14	23-Apr-14	1	2	0	1	1	2
100-K Area Exit Items										
Loadout										
IU226400	100-K Exit Items Removal	5%	8 12-Feb-14 A	06-Mar-14	1	2	0	1	1	2
IU Exit Items										
Loadout										
IU226420	IU-2 Exit Items Removal	5%	26 22-Jan-14 A	08-Apr-14	1	2	0	1	1	2
IU226430	IU-6 Exit Items Removal	0%	8 07-Apr-14*	17-Apr-14	1	2	0	1	1	2
600-380										

Activity ID	Activity Name	% Cmpl	RD Start	Finish	M	April 2014	May 2014	June 2014	July 2014	A			
Final Project Closeout													
IU225050	Prepare Closure Document 600-380	96%	10 16-Dec-13 A	11-Mar-14	1	2	0	1	1	2	0	1	1
IU225070	RL/Reg Signature Rev.0 Closure Document 600-380	0%	3 06-Feb-14 A	26-Feb-14	1	2	0	1	1	2	0	1	1

Attachment 19

**Approval to Treat 600-331 Lead Contaminated Soil in
Accordance with the "TREATMENT PLAN AND
PROTOCOL FOR TREATMENT OF LEAD-
CONTAMINATED SOILS, WCH-252, Rev. 2"**

This approval applies to approximately 10 m3 of lead contaminated soil from the 600-331 waste site as described under waste profile WP600331001. The waste matrix consists of primarily lead contaminated soil. Sample# J1RRY7 had a high of 19.2 mg/L TCLP lead.

The waste is similar to the material treated in "*TREATMENT PLAN AND PROTOCOL FOR TREATMENT OF LEAD-CONTAMINATED SOILS, WCH-252, Rev. 2*".

This approval allows treatment of this waste using the recipe described in Table 1, *Bench-Scale Test Results (Including Results and Reduction Ratios)* of the treatment plan under Mixture 2, which limits the TCLP lead to 30.6 mg/L.



Chris Guzzetti
U.S. Environmental Protection Agency

3/6/14
Date



Ellwood Glossbrenner
U.S. Department of Energy

5 March 2014
Date

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M. E. Thurman	T2-05
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Document Control	H4-11
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Attachment 20

300 Area Closure Project Status
March 13, 2014
100/300 Area Combined Unit Manager Meeting

Ongoing Activities

- 309 – Preparing to initiate below-grade demolition and pull the moderator tank from the lower containment.
- 340 - Initiating final remediation of 340 waste sites.
- 324 – Continue min-safe operations. Initiated NEPA and NHPA Section 106 review of the AREVA off-site mockup location.
- Remaining 300 Area Waste Sites – Completing Zone 5 process sewer piping remediation, mobilizing to start Zone 4 remediation.
- Continuing development of new RDR/RAWP following issuance of the 300 Area Final Action Record of Decision.
- 326 - Completing below-grade demolition, backfill pending.
- 3730 – Preparing to ship last remaining hot-cell.

Demolition & Remediation Preparation Activities

- 3790 – Demolition nearly complete, site completion and backfill pending.

60-Day Project Look Ahead

- Complete backfill of the 326 Building.
- Complete backfill of 3790.
- Complete demolition of 3730.
- Continue south of Apple waste sites remediation.
- Initiate 309 below-grade demolition.
- Finalize revision to the 300-FF-2 portion of the RDR/RAWP and SAP.
- Continue planning and documentation for demolition of the 351 Substation and remediation of the 300-4 waste site.

Attachment 21

ESH&QA Mission Completion Project

March 13, 2014

Long-Term Stewardship

- Continued drafting the 100-K Area Interim Remedial Action Report.

300 Area Final Action ROD RDR/RAWP

- The decisional draft RDR/RAWP soil addendum was submitted to RL for review on February 26, 2014. A draft of the associated revision to the soil SAP will be submitted in early-March.

Document Review Look-Ahead

Document	Regulator Review Start	Duration
100-K Area Interim Remedial Action Report	Late-April 2014	30 days

~~20~~ 21

Attachment 1