

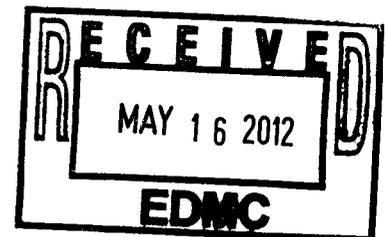
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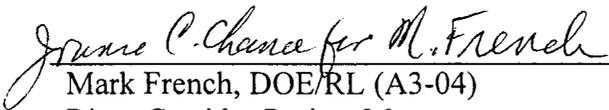
100/300 AREA UNIT MANAGER MEETING ATTENDANCE AND DISTRIBUTION

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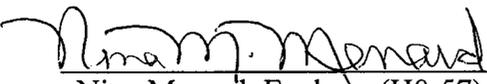


100/300 AREA UNIT MANAGERS MEETING
APPROVAL OF MEETING MINUTES

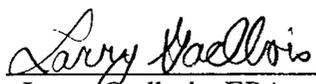
April 12, 2012

APPROVAL:  Date 05/10/12
Mark French, DOE/RL (A3-04)
River Corridor Project Manager

APPROVAL:  Date 05/10/2012
Briant Charboneau, DOE/RL (A6-33)
Groundwater Project Manager

APPROVAL:  Date 5/10/12
Nina Menard, Ecology (H0-57)
Environmental Restoration Project
Manager

APPROVAL:  Date 5/10/12
Laura Buelow, Rod Lobos, or Christopher
Guzzetti, EPA (B1-46)
100 Area Project Manager

APPROVAL:  Date May 10, 2012
Larry Gadbois, EPA
(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); and Mission Completion****April 12, 2012****ADMINISTRATIVE**

- Next Unit Manager Meeting (UMM) – The next meeting will be held May 10, 2012, 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 March 8, 2012, 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 April 12, 2012, UMM.

SPECIAL TOPICS

Two topics were discussed:

- Infiltration rate through the vadose zone (Laura Buelow)
- Cutoff date for the inclusion of data into the D/H RI/FS (Nina Menard)

John Neath provided the following cut-off dates:

- Cutoff dates for including waste site CVP data into documents
 - 100-K Rev 0 – May 2011
 - 300 Area Rev 0 – June 2011
 - 100-D/H Draft A – June 2011
 - 100-BC Draft A – March 2012
 - 100-FR Draft A – March 2012
 - 100-NR Draft A – March 2012
- Cutoff dates for including routine groundwater into the RI/FS evaluation
 - 100-K Rev 0 – December 2011
 - 300 Area Rev 0 – June 2011
 - 100-D/H Draft A – December 2011
 - 100-BC Draft A – February 2012
 - FIU Draft A – December 2011
 - 100-NR Draft A – Feb 2012

All data after the cutoff date will be evaluated and incorporated by exception if it identifies conditions are changing that might affect the remedy decision.

The following action item was assigned:

Action Item 1: DOE will provide EPA and Ecology with the references to support the assumptions regarding the number of years required for habitat reestablishment.

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. No issues were identified and no action items were documented.

Agreement 1: Attachment 3 provides EPA's concurrence to depressurize a fire extinguisher found during remediation of 100-F-57 so that it can be safely transported to and disposed at the Environmental Restoration Disposal Facility (ERDF).

Agreement 2: Attachment 4 provides EPA's concurrence regarding the requirements for signs at the access points to twenty-six I/U-2/IU-6 waste sites for current and post-remediation control.

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. No issues were identified and no action items were documented.

Agreement 1: Attachment 5 provides Ecology's approval for discharging the contents of two fire extinguishers at 100-D so that they can be safely transported to and disposed at ERDF.

Agreement 2: Attachment 6 provides Ecology's concurrence to backfill the lower section of the 100-D-8 site to remove a fish stranding hazard.

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 7 provides status and information for D4/ISS activities at 100-N. No issues were identified and no action items were documented.

Agreement 1: Attachment 8 provides a 100-N Ancillary Facilities Removal Action Sampling Determination Form for Buildings 1607-N and 1607-N2.

Agreement 2: Attachment 9 provides Ecology's concurrence to operate a staging pile to stage demolition debris/soil above 181-NE.

100-K AREA (GROUNDWATER, SOILS)

Attachment 1 provides status and information for groundwater. Attachment 2 provides status and information for Field Remediation activities. Attachment 10 provides status of the 100-K Sludge

Treatment Project and the 100-K Facility Demolition and Soil Remediation projects. No agreements or action items were documented.

Issue 1: Ecology raised a concern regarding the cost and schedule for connecting well 199-K-182. DOE responded that the RL-30 Project does not include adequate funding this fiscal year for making significant changes to the pump and treat system while still meeting milestones for various documents and funding for next fiscal year is still undefined.

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. No issues were identified and no agreements or action items were documented.

300 AREA – 618-10/11 (GROUNDWATER, SOILS, D4/ISS)

Attachment 1 provides status and information for groundwater. 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 11 provides status of the 300 Area Closure Project activities. No issues were identified and no agreements or action items were documented.

REGULATORY CLOSEOUT DOCUMENTS OVERALL SCHEDULE

No issues were identified and no agreements or action items were documented.

MISSION COMPLETION PROJECT

Attachment 12 provides status and information regarding the Orphan Sites Evaluations, Long-Term Stewardship, River Corridor Baseline Risk Assessment, the Remedial Investigation of Hanford Releases to the Columbia River, and a Document Review Look-Ahead. No issues were identified and no agreements or action items were documented.

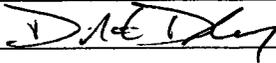
5-YEAR RECORD OF DECISION ACTION ITEM UPDATE

No changes were reported to the status of the CERCLA Five-Year Review action Items. No issues were identified and no agreements or action items were documented.

Attachment A

100/300 AREA UNIT MANAGER MEETING
ATTENDANCE AND DISTRIBUTION
April 12, 2012

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Attachment B

100/300 Area UMM

Action List

April 12, 2012

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Status
O	100-181	RL	J. Hanson	100-HR	DOE will provide Ecology with a briefing on the applicability and status of bioremediation of chromium and the associated feasibility studies.	Open: 4/14/11; Action:
O	100-192	RL	J. Hanson	100-D	DOE will provide Ecology with a briefing on the wells damaged by the flooding at 100-D.	Open: 12/8/11; Action:
O	100-193	RL	M. Thompson	100-N	At the next UMM, DOE will discuss the potential sources of total organic carbon detected at well 199-N-165 down-gradient from the 1324-N/NA treatment, storage, and/or disposal units.	Open: 1/12/12; Action:

Attachment C

100/300 Area Unit Manager Meeting
April 12, 2012
Washington Closure Hanford Building
2620 Fermi Avenue, Richland, WA 99354
Room C209; 2:00p.m.

Administrative:

- Approval and signing of previous meeting minutes (March 8, 2012)
- Update to Action Items List
- Next UMM (5/10/2012, Room C209)

Special Topics

- Infiltration rate through the vadose zone (Laura Buelow)
- Cutoff date for the inclusion of data into the D/H RI/FS (Nina Menard)

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

- 100-F & 100-IU-2/6 Areas (Greg Sinton/Tom Post/Jamie Zeisloft)
- 100-D & 100-H Areas (Jim Hanson/Tom Post/Elwood Glossbrenner)
- 100-N Area (Joanne Chance, Rudy Guercia, Mike Thompson)
- 100-K Area (Jim Hanson, Jamie Zeisloft, Tom Teynor)
- 100-B/C Area (Greg Sinton, Tom Post)
- 300 Area - 618-10/11 exclusively (Jamie Zeisloft)
- 300 Area (Mike Thompson/Rudy Guercia)
- Regulatory Closeout Documents Overall Schedule (John Neath, Mike Thompson)
- Mission Completion Project (John Sands)

Special Topics/Other

- 5-Year Record of Decision Action Item Update (Jim Hanson)

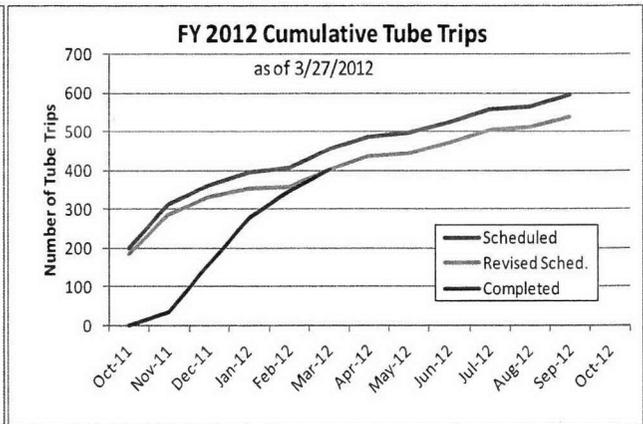
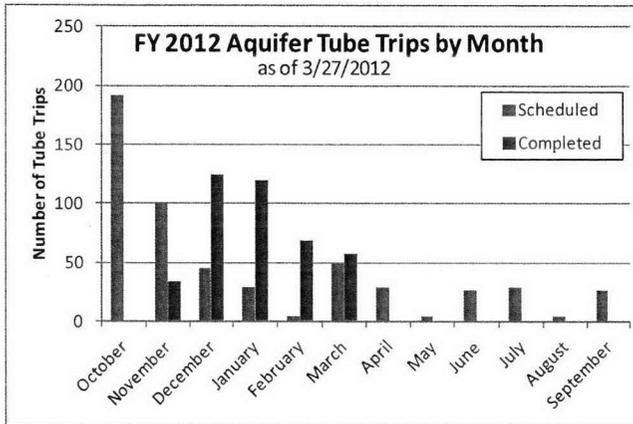
Adjourn

Attachment 1

**100/300 Areas Unit Managers Meeting
April 12, 2012**

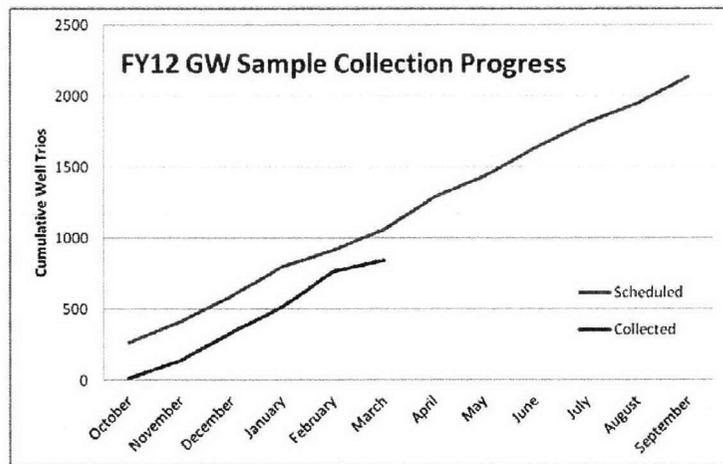
General information on Aquifer Tube Sampling

Aquifer tube sampling is caught up through the end of March. The remainder of the year includes quarterly sampling of some 100-D tubes near ISRM, quarterly and monthly sampling in 100-N, and a few quarterly tubes in 100-K. The graph on the left shows numbers of individual aquifer tubes scheduled and sampled in each shore segment. The graph on the right shows the total number of aquifer tube sampling *trips* (some tubes are sampled multiple times in a year). Some tube sampling trips have been cancelled (e.g., missed monthly samples; plugged tubes needing maintenance before attempting next quarter). The green line on the graph on the right shows the revised schedule.



General information on Groundwater Sampling

The wells completed successfully are reported in a table on the last page of this handout. March sample progress was lower than expected due to a stop work placed by samplers during the last two weeks of March. This stop work was related to well access (configuration management/ industrial hygiene concerns). The stop work was resolved the first week in April. For May, a new reporting format will be available to present the number of physical samples collected, versus consolidated well trips. The table below presents the overall completeness of scheduled vs. collected samples for each groundwater sampling program.



Sampling Program	Cumulative % Complete
AEA	74%
CERCLA	81%
DOH	65%
RCRA	90%
WAC Required	79%
Other	36%

100/300 Areas Unit Managers Meeting
April 12, 2012

100-FR-3 Groundwater Operable Unit – Bert Day / Mary Hartman

(M-015-64-T01, 12/17/2011, Submit CERCLA RI/FS Report and Proposed Plan for the 100-FR-1, 100-FR-2, 100-FR-3, 100-IU-2, and 100-IU-6 Operable Units for groundwater and soil.)

Schedule Status – Behind schedule. The new planned delivery date for the 100-FIU Draft A RI/FS Report to the regulators is currently being re-evaluated based on 100-K comments and inclusion of Coal Ash areas.

- CERCLA Process Implementation:
 - RI/FS report development continues. The team held the monthly status workshop with EPA on March 22, 2012. The workshop focused on alternatives and the draft criteria evaluation. Other topics included document status and draft modeling results. The next status/workshop is planned for May 3, 2012.
- Monitoring and Reporting
 - Nothing new to report. Three wells are scheduled for semiannual sampling in April (199-F5-48 and 199-F5-56, near F Reactor; and 199-F5-55 near 116-F-14 Retention Basin).

100-HR-3 Groundwater Operable Unit – Bert Day / John Smoot

(M-15-70-T01, 11/24/2011, Submit feasibility study report and proposed plan for the 100-HR-1, 100-HR-2, 100-HR-3, 100-DR-1 and 100-DR-2 operable units for groundwater and soil.)

Schedule Status – Behind schedule. The new planned delivery date for the 100-D/H Draft A RI/FS Report to the regulators is currently being re-evaluated based on 100-K comments and inclusion of Coal Ash areas.

- Conducted initial status meeting with Ecology on 3/29 discussing capture analysis, well video (high water impacted wells), well realignment, and coordination with waste site remediation activities. Follow-on discussion planned for 4/10 with monthly scheduled meetings planned for the 4th Thursday of every month.
- CERCLA Process Implementation:
 - The team continues to incorporate RL comments on the RI/FS report as well as the responses to applicable EPA 100-K comments.
 - Planning for decommissioning and replacement of wells at 100-D in the vicinity of the 100-D-100 waste site and at 100-H in the vicinity of the 100-H-28 waste site is being coordinated between PRC and WCH. Fifteen wells potentially are impacted, including 8 monitoring wells in the vicinity of the 100-D-100 waste site and 2 HX and 5 monitoring wells in the vicinity of 100-H-28. The 199-H4-14 injection well and 199-H4-4 extraction well form an important line of protection for the Columbia River in the zone east and south of the 183-H Solar Evaporation Basin. The schedule for these activities is currently on hold and potentially will not occur until FY12:13
- Remedial Actions:
 - Both DX and HX pump and treat system are operating normally. March 1 through 31, 2012 performance:
 - The systems treated 50 million gallons.
 - The system removed 60 kg of hexavalent chromium
 - Recent pumpage at DX 540 gpm (90%) and at HX 735 gpm (92%)

100/300 Areas Unit Managers Meeting
April 12, 2012

100-NR-2 Groundwater Operable Unit – Marty Doornbos / Deb Alexander

(M-015-62-T01, 9/17/2012, Submit a Feasibility Study [FS] Report and Proposed Plan [PP] for the 100-NR-1 and 100-NR-2 Operable Units including groundwater and soil. The FS Report and PP will evaluate the permeable reactive barrier technology and other alternatives (petroleum remediation) and will identify a preferred alternative in accordance with CERCLA requirements.)

Schedule Status – Behind schedule. The new planned delivery date for the 100-D/H Draft A RI/FS Report to the regulators is currently being re-evaluated based on 100-K comments.

• RI/FS Activities

- Work continues on preparation of the RI/FS report.
- The 100 Areas general model was used to prepare a 100-N specific model. The new model incorporates hydrologic and geologic conditions, and geochemical conditions, and new and historic data from previous models and the new RI/FS data. The model will also take into consideration the apatite permeable reactive barrier as installed. Preliminary contaminant transport runs (e.g. nitrate) of the model have begun.
- Sampling of the new RI/FS wells has begun, with all eight new wells expected to be sampled by the end of April. Three of the eight wells have been sampled as of March 27, 2012.

• Performance Monitoring - Apatite Permeable Reactive Barrier (PRB)

- Next monitoring event will occur in the April/May timeframe during high river stage and will include the entire 300 m [984 ft] treated portion of the apatite PRB.
 - Sampling will include 12 monitoring wells and 10 aquifer tubes:
 - 199-N-96A, 199-N-347, 199-N-348, 199-N-349, 199-N-123, 199-N-146, 199-N-122, 199-N-147, 199-N-350, 199-N-351, 199-N-352, and 199-N-353.
 - 116mArray-1A, 116mArray-2A, APT-1, 116mArray-3A, 116mArray-4A, NVP2-116.0m, 116mArray-6A, APT-5, C7881 (replacement for 116mArray-7A), and 116mArray-8A.
- When data from this sampling event are available, the results will be presented in the UMM, most like in June/July.

• RCRA Monitoring – 1324-N

- Possible sources for the TOC exceedance at 1324-N/NA were discussed with Ecology on March 28, 2012. Sampling of the five RCRA wells (199-N-165, 199-N-71, 199-N-72, 199-N-73, and 199-N-74) for the unit was completed on March 14. One of the two 100-K CERCLA wells was sampled on March 20 (199-K-151). 199-K-152 remains to be sampled. An expanded analyte list is included for the groundwater collected from these wells. The expanded analyte list includes: Field parameters (pH, specific conductance, temperature, dissolved oxygen, and oxidation-reduction potential), Metals (filtered and unfiltered), Anions, VOCs, SVOAs, PAHs, Total coliform, TPH-Diesel and Gasoline, and Alkalinity. A meeting will be scheduled with Ecology to discuss these results once they are available.

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

• CERCLA Process Implementation:

- Supported activities leading up to and during the National Remedy Review Board visit the week of March 26th.
- Continue updates on the RI/FS report and Proposed Plan. Modified the preferred remedy to reflect Alternative 3, RTD and Expanded Groundwater Pump-and-Treat.

**100/300 Areas Unit Managers Meeting
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- Remedial Actions:
 - Cultural Resource Monitoring: The March monthly monitoring of the KR 4 Pump-and-Treat system was conducted today 3/30/2012. The notification was sent by DOE on 3/22/12. This month's participants included Joseph Selatsee (Wanapum) and Keith Mendez (CH2M HILL). No evidence of off road driving was identified. The tumble weeds were removed at well 199-K-194 in response to the request from tribal participants in February..
 - KR-4, KX, and KW pump and treat systems are operating normally. The KW system continues operating on the SIR-700 resin. Based on approval of TPA-CN-505, the remaining 100-KR-4 systems are being transitioned to the SIR-700 resin. Currently, KX is operating with SIR-700 in three trains. The remaining KX and KR4 trains will efforts to complete the transition to SIR-700. . March 1 through 31, 2012 performance:
 - The systems treated 34 million gallons.
 - The system removed 4.4 kg of hexavalent chromium

- Modifications & Expansions
 - ResinTech SIR-700 Test:
 - KW P&T continues to operate well with SIR-700 resin; the test has been successful and all activities are complete with the exception of the Test Report. S&GRP anticipates running the test for a few more months while the report is being finalized. Currently injecting into the aquifer ranging from pH 6 to 6.1. The natural pH of the aquifer is around 7.5.
 - The Test Report has gone through internal review and comments are being addressed, including the incorporation of a geochemical evaluation. The Test Report documents the test, responds to the objectives, and recommends use of SIR-700 resin at KX and KR4 without pH adjustments prior to injection. The KW test has demonstrated that 3 partially filled vessels with SIR-700 perform better Dowex 21K.
 - TPA-CN-505 was signed by RL and EPA on 3/26 providing concurrence to use SIR-700 or Dowex 21K within the 100-KR-4 systems. As noted above, KX is currently operating with SIR-700 in three trains with the remaining trains at both KX and KR4 moving forward with complete transition to SIR-700.

- Issues and Conditions Observed
 - Well 199-K-36: Sampled on March 14, 2012. Lab reported Cr(VI) @ 195 µg/L; within the same order of magnitude with previous sample event (6/2011 @ 115 µg/L).

100-BC-5 Groundwater Operable Unit – Bert Day/ Mary Hartman

(M-015-68-T01, 11/30/2011, 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.)

Schedule Status – Behind schedule. The new planned delivery date for the 100-BC Draft A RI/FS Report to the regulators is currently being re-evaluated based on 100-K comments and inclusion of Coal Ash areas.

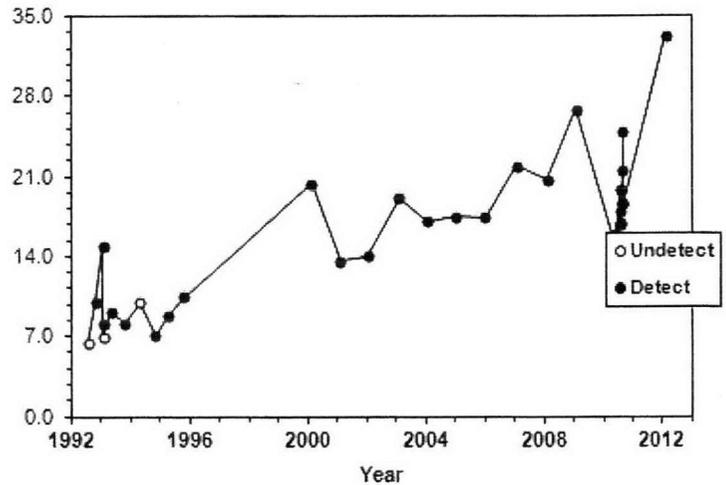
- CERCLA Process Implementation:
 - RI/FS report development continues. The team held the monthly status workshop with EPA on March 22, 2012. The workshop focused on alternatives and the draft criteria evaluation. Other topics included document status and draft modeling results. The next status/workshop is planned for May 3, 2012.
- Monitoring and Reporting

**100/300 Areas Unit Managers Meeting
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- Data from the February 2012 sampling event have been loaded into HEIS. Changes are discussed below. The remaining data continued previously established trends.
- As reported last month, the Cr(VI) concentration in well 199-B4-14, the shallow well downgradient of 100-C-7, increased sharply to 144 µg/L in a sample collected February 10, 2012. Total chromium data confirmed the change. The water table in this region slopes very gently to the north-northeast, suggesting that the source of the chromium is the 100-C-7:1 waste site excavation. Because the water table is nearly flat (10^{-5}), it would take very little recharge to increase the hydraulic gradient. For example, raising the water table one centimeter would increase the gradient by an order of magnitude. Well coverage is not sufficient to detect whether the water table has in fact increased due to dust suppression water. Wells 199-B4-14 and 199-B5-6 are scheduled for sampling in April.

- Cr(VI) increased in 199-B4-8, located in east-central 100-BC. This well shows an increasing trend since early 1990s. The change indicates gradual eastward movement of the plume.

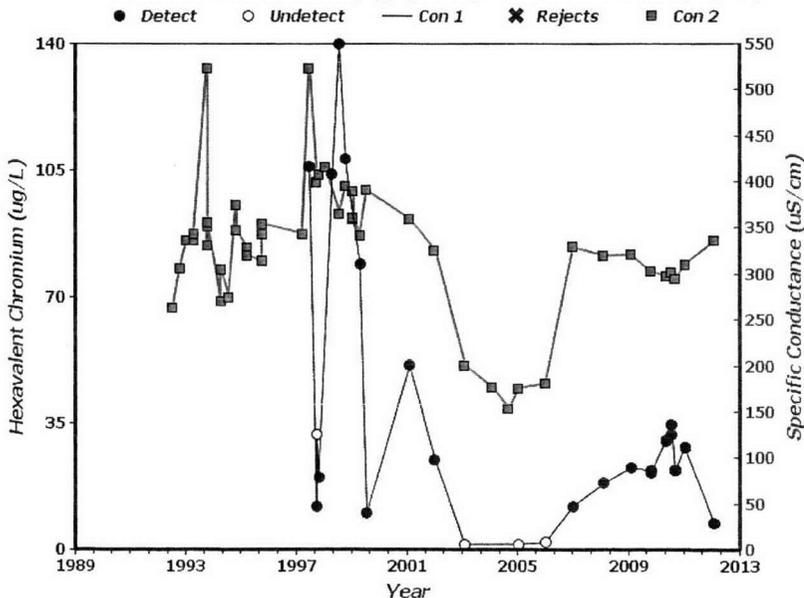
**199-B4-8 Chromium (Filtered + Hex Chrome)
(ug/L)**



- Chromium and hexavalent chromium concentrations sharply declined in 199-B5-1 to <10 µg/L in February. The well is located in west-central 100-BC Area (southeast of 100-B-27). Low concentrations several years ago were caused by a leaking water line, which was evidenced by low conductivity. Conductivity of the recent sample was not low, so the decline in chromium was not due to dilution. The concentration is now much lower than the wells to the northwest, north, or south.

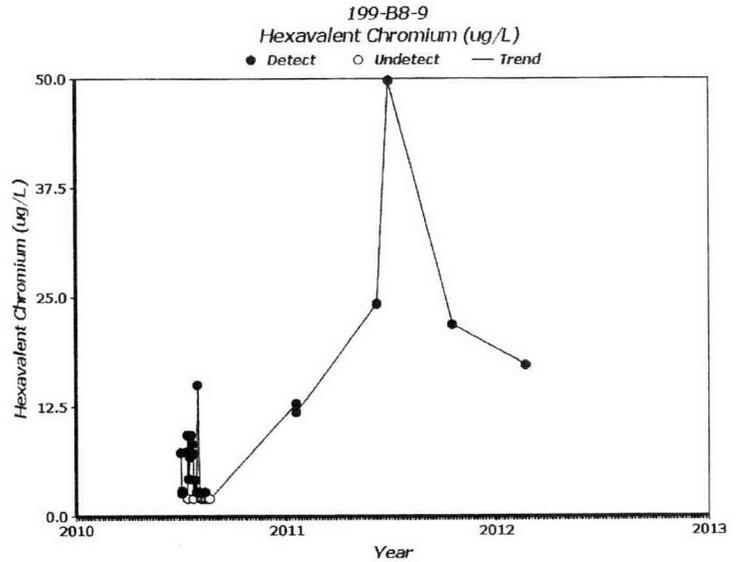
199-B5-1

Hexavalent Chromium (ug/L) vs. Specific Conductance (uS/cm)

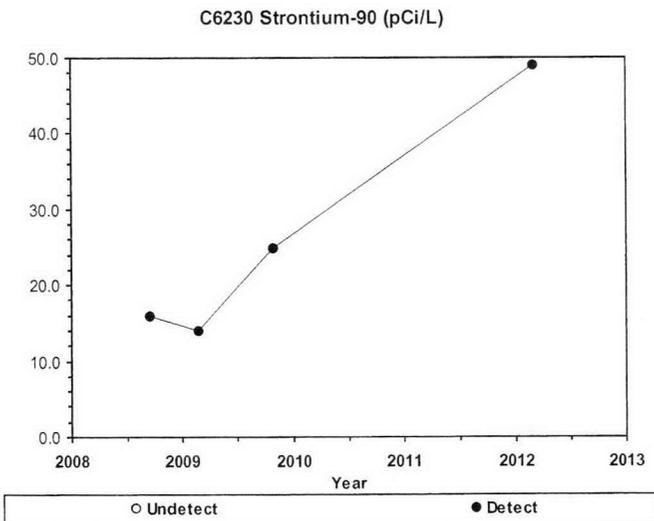
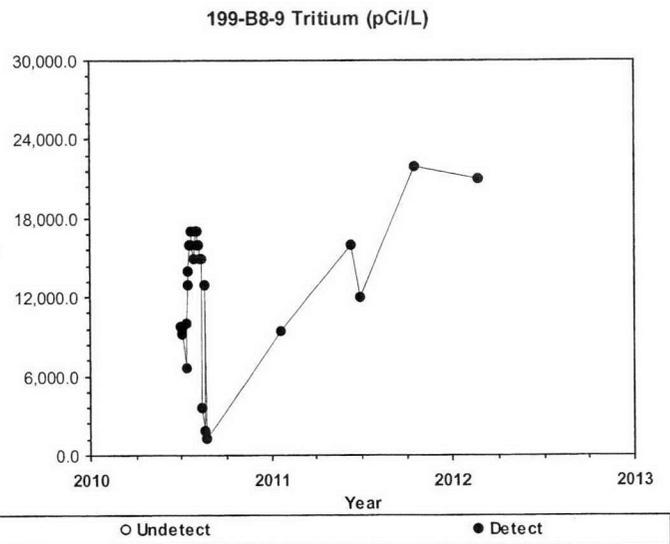


**100/300 Areas Unit Managers Meeting
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- The hexavalent chromium concentration in well 199-B8-9, near C Reactor, declined to 17.3 µg/L in February. The peak seen last June may have been related to 100-C-7 remediation activities to the west, but it was a transient change.
- Tritium concentrations exceeded the drinking water standard for the second quarter in 199-B8-9, near C Reactor. This is evidently part of the same plume previously observed in wells farther west.



- Strontium-90 doubled (to 49 pCi/L) in aquifer tube C6230 in February. This was higher than in nearby wells 199-B3-47 (20 pCi/L) and 199-B3-1 (33 pCi/L). The aquifer tube has a short screen in the upper part of the aquifer, where strontium-90 is most concentrated.



300-FF-5 Groundwater Operable Unit – Marty Doornbos/Virginia Rohay

M-015-72-T01 (due December 31, 2011) “Submit CERCLA RI/FS Report and Proposed Plan for the 300-FF-2 and 300-FF-5 Operable Units for groundwater and soil.”

- M-015-72-T01 milestone was completed on December 27, 2011.
- RI/FS report (DOE/RL-2011-99) Draft A delivered to EPA and Ecology on December 27, 2011.
- Proposed Plan (DOE/RL-2011-47) Draft A delivered to EPA and Ecology on December 27, 2011.

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- EPA comments on these documents were received on February 13, 2012. Progress continues on incorporation of the comments into the Draft Rev. 0 RI/FS & PP.
- The 300-FF-5 Groundwater OU includes the groundwater impacted by releases from waste sites associated with three geographic subregions: 300 Area Industrial Complex, 618-11 Burial Ground, and 618-10 Burial Ground/316-4 Cribs. Principal controlling documents are:
 - 300-FF-5 OU operations and maintenance plan (DOE/RL-95-73, Rev. 1, 2002)
 - 300-FF-5 OU sampling and analysis plan (DOE/RL-2002-11, Rev. 2, 2008)
 - 300 Area RI/FS work plan (DOE/RL-2009-30, Rev. 0, 2010)
 - 300 Area RI/FS sampling and analysis plan (DOE/RL-2009-45, Rev. 0, 2010).
- 300 Area Industrial Complex —
 - Last month, Ecology raised a question regarding inclusion of routine groundwater monitoring data in HEIS. Subsequent reviews by Ecology determined that all of the routine groundwater monitoring data are in HEIS.
 - During the February UMM, Ecology noted that there is a report in the 300 Area RI/FS on a research project using data from multiple short screen wells and that these data are not in HEIS but should be added. Soil and groundwater data collected from research activities not associated with CERCLA and/or RCRA projects are not routinely entered into HEIS. These results may or may not be comparable in terms of representing subsurface conditions, for numerous reasons (e.g., well construction; injection/withdrawal activities; sampling methods; etc.), and therefore should not be treated in the same way as the CERCLA or RCRA monitoring data. The research project report(s) should be used to obtain the analytical results and interpretations.

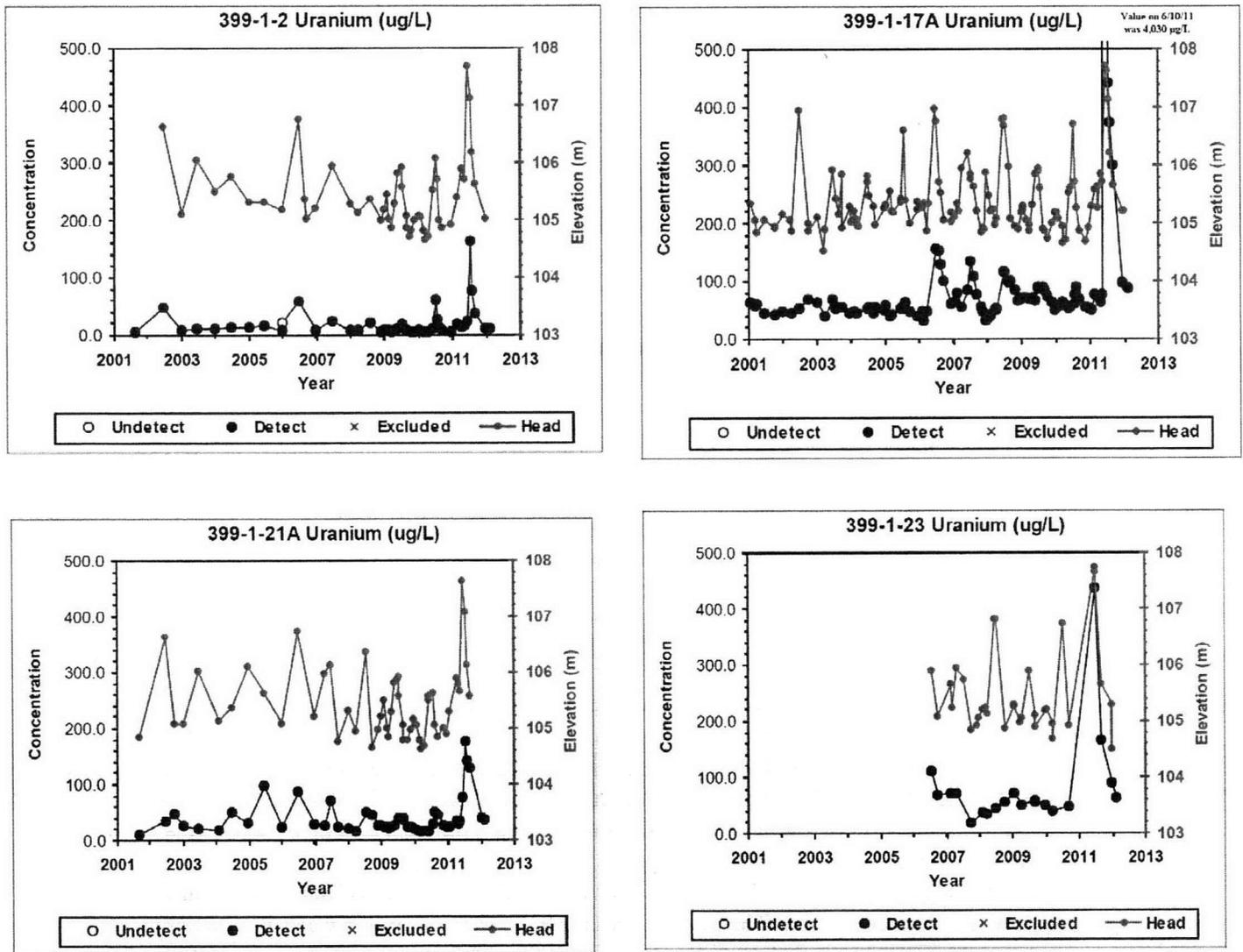
The 300 Area RI did include installation of five ‘temporary wells’ that had relatively short screened intervals (i.e., 2-ft intervals instead of the typical 15- ft interval for a 300-FF-5 monitoring well). Their purpose is to provide more detailed description of what occurs at the water table during the period of seasonal high water table conditions. Analytical results for samples from these locations are entered into HEIS and described in the Draft A 300 Area RI/FS.

- During the last UMM, information was provided regarding the unusually high uranium concentrations that were noted at numerous 300 Area wells in samples collected in June 2011 during the period of seasonal high water table conditions (Figure X below). Of particular note was the concentration detected in the sample from well 399-1-17A, which is approximately 30 m south of the 300 Area Process Trenches and 20 m southwest of the 300-15 process sewer spur that conveyed effluents to the process trenches. The uranium concentration in June 2011 was 4,030 µg/L, which is an order of magnitude higher than previous concentrations. The positive correlation between water-table elevation and uranium concentration suggests that, at or near these locations, uranium remains in the lower portion of the vadose zone and is available to be remobilized during periods of high water-table conditions. Since June 2011, these anomalously high concentrations have declined to their more typical seasonal values.
- 618-11 Burial Ground — The tritium concentrations in samples collected in December and February are consistent with historical trends and expectations.
- 618-10 Burial Ground/316-4 Cribs — Groundwater data from March 2012 at well 699-S6-E4L near the 618-10 burial ground show increasing uranium; data from January 2012 also showed increasing concentrations of soil fixative constituents calcium, magnesium, and chloride. These data may

**100/300 Areas Unit Managers Meeting
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indicate impacts from excavation activities that began in March 2011 at some of the trenches in the burial ground. The monitoring frequency for metals (calcium, magnesium) was adjusted at several 618-10 wells to accommodate excavation and dust control activities as they occur at the burial ground.

Figure X. Trend Plots for Uranium for Wells Near the 300 Area Process Trenches and North Process Pond.



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Wells sampled in March 2012

Summary of Wells & Aquifer Tubes Sampled in the River Corridor Areas During March 2012						
Week	100-BC	100-K	100-N	100-D/H	100-F	300 Area
1-2 Mar 12				199-H1-2 199-H1-34 199-H1-1 199-H4-77 199-H1-6 199-H1-25 199-H1-27 199-H3-4 C6287	C6303 C6305 C6302	AT-3-6-D AT-3-6-S AT-3-4-D AT-3-4-S AT-3-3-D AT-3-3-M AT-3-3-S AT-3-1-M 699-S6-E4A 699-S6-E4L 699-S6-E4K
4-9 Mar 12			199-N-74 199-N-57 199-N-34 199-N-81 199-N-41 199-N-2 199-N-28 199-N-32 199-N-105A 199-N-3			
12-16 Mar 12		199-K-173 199-N-71	199-N-76 199-N-187 199-N-186 199-N-72 199-N-77 199-N-165 199-N-73	199-D4-38 199-D4-39 199-D2-11 199-D8-96 199-H4-80 199-H1-4 199-H1-32		C6348 C6347 C6344 C6343 C6341 C6342 C6350 C6351 AT-3-5-S AT-3-5-S AT-3-2-M AT-3-7-D AT-3-8-S AT-3-7-M

**100/300 Areas Unit Managers Meeting
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Summary of Wells & Aquifer Tubes Sampled in the River Corridor Areas During March 2012						
Week	100-BC	100-K	100-N	100-D/H	100-F	300 Area
19-23 Mar 12	C6229 C7720 AT-B-5-D C6228 C6227 C7719 C7718 C6229 (Unsuccessful) C7720 (Unsuccessful)	199-K-117A 199-K-107A 199-K-108A 199-K-36 199-K-111A 199-K-151 AT-B-7-M DK-04-2	199-N-183 (Unsuccessful) 199-N-188 199-N-46 N116mArray-15A N116mArray-11A N116mArray-10A N116mArray-9A N116mArray-8.5A N116mArray-8A C7881 n116mArray-6A N116mArray-12A NVP2-115.1 NVP2-115.4 NVP2-115.7 NVP2-116.3 NVP1-1 NVP1-2 NVP1-3 NVP1-5 NVP1-4			
26-30 Mar 12			N116mArray-1A N116mArray-2A N116mArray-3A n116mArray-4A NVP2-116.0 N116mArray-0A C6132 C6135			

Attachment 2

April 12, 2012 Unit Manager's Meeting
Field Remediation Status

100-B/C

- Finished remediation efforts at 100-C-7:1 (minus west plume)
- Continued load-out activities
 - Truck and pup, 335,000 tons
 - ERDF cans, 126,000 tons
 - LDR material, 65,000 tons, LDR complete
- MSA continued power line relocation activities. New poles have been installed, preparing to run lines.
- Miscellaneous Restoration
 - Completed railroad track removal
 - Continued debris pile cleanup

100-D

- Commenced excavation and stockpiling at 100-D-78
- Continued tier 2 load-out at 100-D-30
- Continued excavation and load-out at 100-D-50:4 and 100-D-100
- Completed liquid removal from 100-D-50:6 pipes\
- Completed partial backfill of 100-D-8 to prevent fish stranding

100-F

- Excavation complete at 100-F-57
- Continued final closeout activities for remaining waste sites
- Backfill/revegetation complete
- Completed truck and pup load-out from 100-F-57 stockpiles

100-H

- No activities being conducted at 100-H at this time
- DOE and Ecology continued discussions to resolve disputes with closure documents for 116-H-5, 128-H-1, and 126-H-2

100-K

- Removed all debris from 128-K-2, removing plume identified by in-process sample results

- In-process samples results from 600-29 received, continued additional excavation in one small area
- Continued anomaly characterization/processing at 118-K-1
- Trench N potholes sample results received, indicate elevated tritium in vadose zone.

100-N

- Continued excavation and load-out at 100-N-28, 100-N-62, 100-N-63:2 and the Golf Ball Area and collocated waste sites (UPR-100-N-4, UPR-100-N-5, UPR-100-N-8, UPR-100-N-25, UPR-100-N-31 and 116-N-2)

618-10 Trench Remediation

- Continued loadout of soil waste to ERDF
- Continued excavation of trench soils, and processing of drums and anomalies
- Initiated bottle processing. All bottles collected to date (~200) were processed on 3/21/12.

100-IU-2/6

- Completed remediation of 600-298 #5
- Began and completed remediation of 600-305 #1
- Began and completed remediation of 600-305 #2
- Began and completed remediation of 600-306 #1
- Began and completed remediation of 600-307 #2
- Began remediation of 600-298 #4

Attachment 3

164970

^WCH Document Control

From: Saueressig, Daniel G
Sent: Wednesday, April 11, 2012 6:09 AM
To: ^WCH Document Control
Subject: FW: CARBON DIOXIDE FIRE EXTINGUISHER AT 100-F
Please provide a chron number. This email documents a regulatory agreement.

Thanks,

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

From: Post, Thomas C [mailto:thomas.post@rl.gov]
Sent: Tuesday, April 10, 2012 8:24 AM
To: Saueressig, Daniel G
Subject: RE: CARBON DIOXIDE FIRE EXTINGUISHER AT 100-F

Dan,

I concur.

Tom

From: Saueressig, Daniel G [mailto:dgsauere@wch-rcc.com]
Sent: Tuesday, April 10, 2012 6:55 AM
To: Post, Thomas C
Subject: FW: CARBON DIOXIDE FIRE EXTINGUISHER AT 100-F

Tom, the anomaly crew is still waiting for me to give them the go ahead to vent the cylinder at F, do you concur?

Thanks,

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

From: Christopher Guzzetti [mailto:Guzzetti.Christopher@epamail.epa.gov]
Sent: Monday, March 12, 2012 2:25 PM

4/11/2012

To: Saueressig, Daniel G
Cc: Fancher, Jonathan D (Jon); Landon, Roger J; Wilkinson, Stephen G; Post, Thomas C
Subject: Re: CARBON DIOXIDE FIRE EXTINGUISHER AT 100-F

I concur.

Christopher J. Guzzetti
U.S. EPA Region 10
Hanford Project Office
Phone: (509) 376-9529
Fax: (509) 376-2396
Email: guzzetti.christopher@epa.gov

"Saueressig, Daniel G" ---03/12/2012 02:22:31 PM---Chris/Tom, a carbon dioxide fire extinguisher was found during remediation of 100-F-57. We need to

From: "Saueressig, Daniel G" <dgsauere@wch-rcc.com>
To: Christopher Guzzetti/R10/USEPA/US@EPA, "Post, Thomas C" <thomas.post@rl.doe.gov>
Cc: "Landon, Roger J" <RJLANDON@wch-rcc.com>, "Wilkinson, Stephen G" <sgwilkin@wch-rcc.com>, "Fancher, Jonathan D (Jon)" <JDFANCHE@wch-rcc.com>
Date: 03/12/2012 02:22 PM
Subject: CARBON DIOXIDE FIRE EXTINGUISHER AT 100-F

Chris/Tom, a carbon dioxide fire extinguisher was found during remediation of 100-F-57. We need to depressurize the fire extinguisher to transport it to ERDF for disposal. Let me know if you have any concerns with discharging the contents so we can dispose to the cylinder, carbon dioxide isn't regulated as a dangerous waste, so I don't see a problem with this path forward.

Let me know.

Thanks,

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

4/11/2012

Attachment 4

164999

^WCH Document Control

From: Saueressig, Daniel G
Sent: Thursday, April 12, 2012 9:23 AM
To: ^WCH Document Control
Cc: Winterhalder, John A
Subject: FW: Remediation at 26 IU2/IU6 Waste Sites
Attachments: FW Remediation Sampling Backfill and Revegetation of 26 IU-2IU-6 Waste Sites.rtf
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: Christopher Guzzetti [mailto:Guzzetti.Christopher@epamail.epa.gov]
Sent: Thursday, April 12, 2012 9:13 AM
To: Winterhalder, John A; Saueressig, Daniel G; Glossbrenner, Ellwood T; Fancher, Jonathan D (Jon); Jakubek, Joshua E
Subject: Re: Remediation at 26 IU2/IU6 Waste Sites

I concur.

Christopher J. Guzzetti
U.S. EPA Region 10
Hanford Project Office
Phone: (509) 376-9529
Fax: (509) 376-2396
Email: guzzetti.christopher@epa.gov

"Winterhalder, John A" ---04/05/2012 12:11:10 PM---Sorry Chris, forgot to identify the subject for you.
Thanks/John

From: "Winterhalder, John A" <jawinter@wch-rcc.com>
To: Christopher Guzzetti/R10/USEPA/US@EPA
Date: 04/05/2012 12:11 PM
Subject: Remediation at 26 IU2/IU6 Waste Sites

Sorry Chris, forgot to identify the subject for you.

Thanks/John

>

> From: Winterhalder, John A

4/12/2012

> Sent: Thursday, April 05, 2012 12:05 PM
> To: Guzzetti, Christopher; 'Glossbrenner, Ellwood T'
> Cc: Winterhalder, John A; Jakubek, Joshua E
> Subject:

>
>
> Chris,

>
> WCH will soon begin remediation on 26 IU-2/IU-6 waste sites that are
> dispersed over a relatively portion of land outside of the industrial
> areas associated with the 100 Area reactors. The attached file
> provides additional information on the individual waste sites and
> their locations.

>
>
> The RDR/RAWP for the 100 Area Remaining Sites establishes certain
> signage requirements for current and post-remediation control over
> these areas. The disperse nature of these sites makes it impractical
> to post large signs resonably near the access points to each of these
> waste sites. As an alternative, we are proposing to post 11 X 17 inch
> signs at the nearest entrance point to each site. The signs are
> orange with black lettering, would be laminated for durability, and
> affixed to a hardback board and T-post at the access point nearest the
> waste sites. The signs would read:

>
> WARNING
> HAZARDOUS AREA
> Area May Contain Hazardous Soil
> Only Authorized Personnel Allowed
> For Information Call 509-376-7501

>
> We believe this approach meets the intent of the institutional
> controls for signage as they are described in the RDR/RAWP, and would
> like to proceed accordingly. Ellwood has already looked this over and
> provided his concurrence. We are seeking your review and concurrence
> at this time.

>
> If you have any questions or would like to discuss this further,
> please give me a call 554-8933.

>
> Thank you,
> John Winterhalder
> WCH Field Remediation
> Environmental Project Lead
> 100-D/H and IU-2/IU-6

>
[attachment "winmail.dat" deleted by Christopher Guzzetti/R10/USEPA/US] [attachment
"message_body.rtf" deleted by Christopher Guzzetti/R10/USEPA/US] [attachment "Eco &
Cult Review for 26 IU2.IU6 Waste Sites.pdf" deleted by Christopher
Guzzetti/R10/USEPA/US]

From: Glossbrenner, Ellwood T [mailto:ellwood.glossbrenner@ri.gov]
Sent: Thursday, April 05, 2012 11:11 AM
To: Winterhalder, John A
Subject: RE: Remediation, Sampling, Backfill and Revegetation of 26 IU-2/IU-6 Waste Sites

John,

I believe that the intent of institutional controls for signage has been met.

Ellwood

From: Winterhalder, John A [mailto:jawinter@wch-rcc.com]
Sent: Thursday, April 05, 2012 6:28 AM
To: Glossbrenner, Ellwood T
Subject: RE: Remediation, Sampling, Backfill and Revegetation of 26 IU-2/IU-6 Waste Sites

<< File: Eco & Cult Review for 26 IU2.IU6 Waste Sites.pdf >>

Ellwood, try this one. Thanks/John

From: Glossbrenner, Ellwood T [mailto:ellwood.glossbrenner@ri.gov]
Sent: Wednesday, April 04, 2012 4:18 PM
To: Winterhalder, John A
Subject: RE: Remediation, Sampling, Backfill and Revegetation of 26 IU-2/IU-6 Waste Sites

John,

I don't have permission to access the link below that you sent me. I have access to the www.wch-rcc.com - /empr/ web site. Is there a directory in here where I can access this document? Are we talking about the 100-IU-6 sites?

Ellwood T. Glossbrenner
509-376-5828

From: Winterhalder, John A [mailto:jawinter@wch-rcc.com]
Sent: Wednesday, April 04, 2012 3:41 PM
To: Glossbrenner, Ellwood T
Cc: Winterhalder, John A; Jakubek, Joshua E
Subject: Remediation, Sampling, Backfill and Revegetation of 26 IU-2/IU-6 Waste Sites

Ellwood,

WCH will soon begin remediation on 26 IU-2/IU-6 waste sites that are dispersed over a relatively

portion of land outside of the industrial areas associated with the 100 Area reactors. The link below provides additional information on the individual waste sites and their locations:

<http://DMP01.wch-rcc.com/ucm/groups/ias/@docctl/@general/documents/iom/1988019.pdf>

The RDR/RAWP for the 100 Area Remaining Sites establishes certain signage requirements for current and post-remediation control over these areas. The disperse nature of these sites makes it impractical to post large signs resonably near the access points to each of these waste sites. As an alternative, we are proposing to post 11 X 17 inch signs at the nearest entrance point to each site. The signs are orange with black lettering, would be laminated for durability, and affixed to a hardback board and T-post at the access point nearest the waste site. The signs would read:

WARNING
HAZARDOUS AREA
Area May Contain Hazardous Soil
Only Authorized Personnel Allowed
For Information Call 509-376-7501

We believe this approach meets the intent of the institutional controls for signage, and would like to proceed accordingly.

Please let me know what your thoughts are on this and whether you support our taking this to EPA for their concurrence.

If you have any questions or would like to discuss this further, please give me a call 554-8933.

Thank you,
John Winterhalder
WCH Field Remediation
Environmental Project Lead
For 100-D/H and IU-2/IU-6

Attachment 5

^WCH Document Control

From: Saueressig, Daniel G
Sent: Monday, March 26, 2012 10:28 AM
To: ^WCH Document Control
Subject: RE: INFORMATION
CO2 fire extinguisher management.

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

From: ^WCH Document Control
Sent: Tuesday, March 13, 2012 6:40 AM
To: Saueressig, Daniel G
Subject: RE: INFORMATION

Dan,

Can you provide a subject matter?

Thank you,

Diana

From: Saueressig, Daniel G
Sent: Tuesday, March 13, 2012 6:12 AM
To: ^WCH Document Control
Subject: FW: INFORMATION

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

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

From: Kapell, Arthur (ECY) [mailto:akap461@ECY.WA.GOV]
Sent: Monday, March 12, 2012 6:56 PM
To: Saueressig, Daniel G; Boyd, Alicia
Cc: Landon, Roger J; Wilkinson, Stephen G
Subject: RE: INFORMATION

Dan,

3/26/2012

I am in agreement with Mandy's earlier email - I also don't see any regulatory issues from Ecology's standpoint regarding the discharge of CO2 cylinders.

Artie Kapell
Department of Ecology

From: Saueressig, Daniel G [dgsauere@wch-rcc.com]
Sent: Monday, March 12, 2012 2:42 PM
To: Kapell, Arthur (ECY); Boyd, Alicia (ECY)
Cc: Landon, Roger J; Wilkinson, Stephen G
Subject: FW: INFORMATION

Artie/Alicia, consistent with the email approval below from Mandy, we have to 2 CO2 fire extinguishers at 100-D and 1 CO2 fire extinguisher at 100-N. We plan to discharge the contents so the we can safely transport and dispose of these items at ERDF.

Give me a call if you have any questions.

Thanks,

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

From: Jones, Mandy (ECY) [mailto:mjon461@ECY.WA.GOV]
Sent: Tuesday, January 05, 2010 12:28 PM
To: Saueressig, Daniel G
Subject: RE: INFORMATION

Dan, we don't see any regulatory issues with puncturing the CO2 cylinders (fire extinguisher). I would just caution the practice from a worker safety standpoint.

I will look forward to your e-mail detailing the other extinguisher you have found while remediating the clearwells. In the e-mail please describe your plans for disposal of these extinguishers.

Thanks for the call.
Mandy

From: Saueressig, Daniel G [mailto:dgsauere@wch-rcc.com]
Sent: Tue 1/5/2010 11:33 AM
To: Jones, Mandy (ECY)
Subject: INFORMATION

Hi Mandy, left you a voicemail, but thought I'd shoot you an email as it sounds like your working from home today. Can you give me a call? I'd like to discuss something with you.

Thanks,

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

3/26/2012

Attachment 6

Roberts, Diana L

From: Laurenz, Julian E
Sent: Tuesday, April 03, 2012 11:22 AM
To: Roberts, Diana L
Subject: FW: 100-D-8 AOHWM Backfill to Mitigate Fish Stranding

Diana,

Would you please chron this e-mail.

Thanks,
Julian

From: Kapell, Arthur (ECY) [<mailto:akap461@ECY.WA.GOV>]
Sent: Tuesday, April 03, 2012 11:15 AM
To: Laurenz, Julian E
Cc: Boyd, Alicia; Myers, R (Scott); Neath, John P; Post, Thomas C; Capron, Jason M; Howell, Theresa Q
Subject: RE: 100-D-8 AOHWM Backfill to Mitigate Fish Stranding

Julian,

With regard to the accompanying email which I sent you earlier today, it was not my intent in stating "Should there be the imminent potential for fish stranding..." to have you wait until there are increased flowrates before backfilling the lower section of 100-D-8. To clarify that statement, my intent was to say:

As there is the imminent potential for fish stranding within the next couple of weeks because of increased river flowrates, I concur with your decision to backfill the lower section of 100-D-8, as stated in your email.

Artie Kapell
Nuclear Waste Program
Washington State Department of Ecology
(509) 372-7895 Office
(509) 372-7971 Fax

From: Kapell, Arthur
Sent: Tuesday, April 03, 2012 9:18 AM
To: 'Laurenz, Julian E'
Cc: Boyd, Alicia (ECY); Myers, R (Scott); Neath, John P; Post, Thomas C; 'jmcapron@wch-rcc.com'; 'Howell, Theresa Q'
Subject: RE: 100-D-8 AOHWM Backfill to Mitigate Fish Stranding

Julian,

Alicia and I met with Jason Capron and Theresa Howell yesterday to discuss the expedited closure of the 100-D-8 site. As part of that meeting Jason provided us with the closeout sampling data from the AOHWM, indicating that the Remedial Action Goals have been met.

Should there be the imminent potential for fish stranding within the next couple of weeks because of increased river flowrates, I concur with your decision to backfill the lower section of 100-D-8, as stated in your email. Thanks for the notification.

Artie Kapell
Nuclear Waste Program
Washington State Department of Ecology
(509) 372-7895 Office
(509) 372-7971 Fax

From: Laurenz, Julian E [<mailto:jelauren@wch-rcc.com>]
Sent: Monday, April 02, 2012 5:52 PM
To: Kapell, Arthur (ECY)
Cc: Boyd, Alicia (ECY); Myers, R (Scott); Neath, John P; Post, Thomas C
Subject: 100-D-8 AOHWM Backfill to Mitigate Fish Stranding

Artie,

How is it going? In last week's interface meeting, we discussed the potential for fish stranding at 100-D-8. To mitigate this issue, we also talked about accelerating the review of the 100-D-8 upland (AOWHM) RSVP. Approving the RSVP would allow WCH to backfill the excavation, therefore removing the fish stranding hazard.

After the interface meeting, a question was raised (by Project personnel) on the potential for a fish stranding hazard to occur prior to getting the RSVP approved. To answer this question, 100-D Project personnel reviewed historical river flowrates. Based on this review, the Project identified the potential for fish stranding within the next couple of weeks, which would occur prior to the RSVP being approved. To alleviate the fish stranding issue, WCH's intention is to backfill the lower section of 100-D-8 by 4/5/12. Review of the AOHWM data shows that closeout samples meet all the Remedial Action Goals.

Please feel free to give me a call if you have any questions.

Thanks,
Julian

Attachment 7

100 Area D4/ISS Status

April 12, 2012

100-N

181-N River Pumphouse: Above grade demolition approximately 80% complete.

181-NE HGP River Pumphouse: Above grade demolition approximately 50% complete.

1908-NE HGP Outfall: Above grade demolition began on March 29, 2012 and is now approximately 65% complete.

1908-N Reactor Outfall: Above grade demolition complete. Below grade demolition is approximately 30% complete.

182-N High Lift Pumphouse: Below grade demolition approximately 80% complete. Debris loadout is approximately 80% complete.

105-N Fuel Storage Basin (FSB): Demolition complete. Load out approximately 90% complete. Excavation has been visually examined, photographed, and radiologically screened. Currently preparing to visually examine, radiologically screen, and collect concrete sample from floor of lift station's valve pit. Also preparing excavation for placement of a layer of plastic sheeting, topped with at least one foot of clean fill material to facilitate upcoming subcontractor activities needed to complete the ISS. Sample shipment screening data for beryllium samples recently collected are currently being evaluated with the radiological survey records to determine in process sample locations. To date, radiological controls in place have kept dose levels below ALARA goals.

105-NE Fission Products Trap (FPT): Demolition and load out complete.

105-N/109-N Reactor/Heat Exchanger Buildings (ISS): Subcontractor has mobilized on site and is scheduled to begin final ISS activities, primarily on the west side in and around the former Fuel Storage Basin, next week.

107-N Basin Recirculating/Cooling Facility: Activities to mobilize for facility demolition are complete. Demolition expected to begin next week.

1303-N Spacer Silos: Characterization for beryllium complete. Scheduled to begin next week excavating around silos to facilitate further characterization activities and demolition.

Other Facilities Demolished (since last UMM): 184-NB Air Handler Main Building stack base, 105-ND Remote Air Intake.

Other Areas

400 Area: Demobilization from 400 Area complete with exception of one connex box scheduled to be removed next week.

Attachment 8

100-N ANCILLARY FACILITIES REMOVAL ACTION SAMPLING DETERMINATION FORM

Determination Number
SDF-100N-007

A. INSTRUCTIONS

This form must be completed to: 1) document existing data in order to determine if current data is suitable to prove completion of 100-N Ancillary Facilities, or 2) document that site-specific sampling and analyses are needed to provide completion for 100-N Ancillary Facilities.

B. GENERAL INFORMATION

Building Name: Sanitary Sewer System No. 1 and No. 2 Tanks Building Number: 1607-N1 / 1607-N2

WIDS Sites Associated or Adjacent:
124-N-1 (aka 1607-N1), 124-N-2 (aka 1607-N2), 100-N-84:3, 100-N-84:4, 100-N-84:5, and 120-N-2 (through intersection with 100-N-84:5)

Other:

NOTE: 1607-N1 and 1607-N2 are also known as WIDS sites 124-N-1 and 124-N-2.

C. INFORMATION SOURCES

Available information (list document number for each if applicable):

Historical Site Assessment: <u>N/A</u>	Site Walkdown: <u>ER Site Investigation Logbook: EL-1255-1</u>
IH Characterization Report: <u>N/A</u>	Radiological Survey: <u>Global Positioning Environmental Radiological Surveyor (GPERS) surveys ESR-FRM-09-0085 and ESR-FRM-09-0146</u>
IHC/FHC Document: <u>N/A</u>	RCC Stewardship Information System (SIS) WIDS/SIS: <u>Facility Summary Reports: 1607-N1 and 1607-N2 (aka 124-N-1 & 124-N-2)</u>
PDSR: <u>Multiple - see "Other" box below.</u>	Facility Inspection: <u>N/A</u>
Waste Characterization Checklist: <u>N/A</u>	Summary Report: <u>N/A</u>

Other:

Radiological Survey Record: RSR-100N-09-1420 (Downposting)
 Radiological Survey Record: RSR-100N-09-1343 / 1345
 Radiological Survey Record: RSR-100NFR-11-0332 / 0334
 Post-Demolition Summary Report for the 163-N Water Demineralization Plant, 183-N Water Treatment Plant, 183-NA Pump House, 183-NB Clearwell, and the 183-NC Filter Backwash Sump: CCN 140560
 Post-Demolition Summary Report for the 100-N Sanitary Sewer System No. 1 Tank (1607-N1, 124-N-1): CCN 146959
 Post-Demolition Summary Report for the 100-N Sanitary Sewer System No. 2 Tank (1607-N2, 124-N-2): CCN 145646
 Explanation of Significant Differences for the 100-NR-1 and 100-NR-2 Operable Units Interim Remedial Action Record of Decision (Relevant Portion Attached to this Form)
 Interim Remedial Action Record of Decision for the 100-NR-1 and 100-NR-2 Operable Units, September 2009
 Regulatory Decision Cron # Request - 124-N-1 Cess Pool: CCN 130678
 124-N-2 Bio-Situ Evaluation: CCN 160160
 124-N-2 Verification Sampling White Paper: CCN 162203
 Photograph of 1607-N1 Pre-Demolition, No Time Stamp: CCN 146959 Figure 1
 Photographs of 1607-N1 Pre-Demolition, Time-Stamped 10/25/2006: SIS Facility Summary Report for 124-N-1 pgs. 5-6 & CCN 140560 Attachment 4
 Photographs of 1607-N1 Post-Demolition, Time-Stamped 09/06/2009 & 09/15/2009: CCN 146959 Figure 2 & SIS Facility Summary Report for 124-N-1 pg. 7
 Photographs of 1607-N2 Pre-Demolition, No Time Stamp: CCN 145646 Figure 1 & SIS Facility Summary Report for 124-N-2 pgs. 3-5
 Photograph of 1607-N2 Post-Demolition, Time-Stamped 06/08/2009: CCN 145646 Figure 2

D. HAZARDOUS SUBSTANCES

Check all that apply:

- None
 Asbestos containing material
 Lead
 PCBs/PCB Articles
 Oils/Greases
 Chemicals List: _____

100-N ANCILLARY FACILITIES REMOVAL ACTION SAMPLING DETERMINATION FORM

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Radiological Contamination Mercury/Mercury Devices

The hazardous substances associated with these facilities were not identified for use with this form because both facilities will be closed out by the Field Remediation organization. Accordingly, the Field Remediation organization will be responsible to identify and address all hazardous substances associated with these facilities. See the "Comments" section below for details concerning the Field Remediation organization's responsibilities pertaining to these facilities.

References/Comments:

Waste from the 1607-N1 facility was disposed using waste profile HGP001 (CCN 146959 pg. 2). Waste from the 1607-N2 facility was disposed using waste profile 107N001 (CCN 145646 pg. 1).

Liquids: Yes No

If yes, describe source and nature of liquids:

The 1607-N1 facility received sanitary waste from the 163-N/183-N facilities (CCN 146959 pg. 1). The 1607-N2 facility received sanitary waste from the 182-N facility (CCN 145646 pg. 1).

Were the hazardous substances removed from the facility prior to demolition? Yes No

As verified by what documentation:

The removal of specific hazardous substances associated with these facilities was not determined for use with this form because the Field Remediation organization will be performing verification sampling of the underlying soils following completion of remediation of the remainder of the 1607-N1 and N2 facilities.

Was there potential for hazardous substances to be introduced into the soils during facility operations or demolition? Yes No N/A

References/Comments:

This scenario is not expected. However, the area will be excavated as part of remedial action of the 100-N Interim ROD (ESD).

List any hazardous materials left in the building for demolition:

A list of hazardous substances left in these facilities for demolition was not identified for use with this form because verification sampling for both facilities will be performed by the Field Remediation organization.

Does review of historical records and process knowledge indicate a potential for radiological or chemical contamination to be present in the facility?

Historical records and process knowledge pertaining to chemical contamination were not reviewed for these facilities because verification sampling for both facilities will be performed by the Field Remediation organization.

The 1607-N1 facility does not appear to have the potential to contain radiological contamination. The GPERS survey at this facility did not yield any data point greater than twice the background radiological level (ESR-FRM-09-0146). The downposting survey at this facility did not yield detectable radiological levels (RSR-100N-09-1420). In addition, no reviewed work progress radiological surveys indicated detectable radiological levels (RSR-100N-09-1343 / 1345).

The 1607-N2 facility does not appear to have the potential to contain radiological contamination. The GPERS survey at this facility did not yield any data point greater than twice the background radiological level (ESR-FRM-09-0085). In addition, no reviewed work progress radiological surveys indicated detectable radiological levels (RSR-100NFR-11-0332 / 0334).

Comments:

The Explanation of Significant Differences (ESD) for the 100-NR-1 and 100-NR-2 Operable Units Interim Remedial Action Record of Decision (I ROD) indicates that the 1607-N1 facility (124-N-1 WIDS site) was added to the I ROD (ESD pg. 17). The 1607-N2 facility (124-N-2 WIDS site) was already included in the I ROD. By their inclusion in the ESD and I ROD, the 1607-N1 and 1607-N2 facilities (124-N1 and 124-N-2 Waste Sites) have been identified as waste sites that will undergo remediation. Accordingly, the facilities will be closed out as part of a remedial action. Any sampling deemed necessary will be handled by the Field Remediation organization.

The cesspool associated with 1607-N1 was not removed (CCN 146959 pg. 3). The Field Remediation organization will be performing verification sampling of the soils underlying this facility (CCN 130678 pg. 2, CCN 140560 pg. 6, CCN 146959 pg. 2, and ESD pg. 17).

The cesspool associated with 1607-N2 was not removed (CCN 145646 pg. 2). A Remediation and Verification Sampling

100-N ANCILLARY FACILITIES REMOVAL ACTION SAMPLING DETERMINATION FORM

Determination Number
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plan has been prepared for 1607-N2, in addition, remediation design 100N-DD-C0246 Rev.1 has been approved for this location (CCN 160160 pg. 1).

E. FIELD OBSERVATIONS

Visual Inspection

Were any stained soils/anomalies discovered during or after demolition of the facility? Yes No

References/Comments:

1607-N1: No stains identified during a walkdown (Logbook EL-1255-1 pg. 14), No anomalies (CCN 146959 pg. 2)
1607-N2: No stains identified during a walkdown (Logbook EL-1255-1 pg. 15), No anomalies (CCN 145646 pg. 2)

Were samples taken of the stained soils/anomalies? Yes No N/A

References/Comments:

Neither stained soils nor anomalies were discovered, so this question is not applicable.

Do results of the samples indicate that chemical contamination exists? Yes No N/A

References/Comments:

Neither stained soils nor anomalies were discovered, so this question is not applicable.

Is the area potentially a discovery site? Yes No

References/Comments:

Neither stained soils nor anomalies were discovered.

Radiological Surveys

Did radiological surveys (GPERS or equivalent) identify contamination? Yes No

References/Comments:

ESR-FRM-09-0085, ESR-FRM-09-0146, and RSR-100N-09-1420

Were samples taken of the radiologically contaminated soils? Yes No N/A

References/Comments:

The radiological surveys did not identify radiological contamination, so this question is not applicable.

Is the area potentially a discovery site? Yes No

References/Comments:

The radiological surveys did not identify radiological contamination.

Were the contaminated materials removed? Yes No N/A

References/Comments:

The radiological surveys did not identify radiological contamination, so this question is not applicable.

F. WIDS SITES

Were there any WIDS sites affected by D4 activities? Yes No

If yes, list the WIDS sites:

124-N-1 and 124-N-2.

Were the WIDS site(s) completely removed? Yes No

References/Comments:

The septic tank portions of 124-N-1 and 124-N-2 WIDS sites were removed. The cesspools associated with the 124-N-1 and 124-N-2 WIDS sites were not removed (CCN 146959 pg. 3, CCN 145646 pg. 2).

Will the Ancillary Facility Footprint be deferred to FR to be closed out with a co-located Waste Site? Yes No

References/Comments:

Verification of the underlying soils at both the 1607-N1 and 1607-N2 facilities will be performed by the Field Remediation organization in conjunction with verification for the 124-N-1 and 124-N-2 WIDS sites (CCN 130678 pg. 2, CCN 140560 pg. 6, CCN 146959 pg. 2, ESD pg. 17, CCN 162203, and CCN 160160 pg. 1). Consult the "Comments" section of part D of this form for an explanation of the indications of these references.

100-N ANCILLARY FACILITIES REMOVAL ACTION SAMPLING DETERMINATION FORM

Determination Number
SDF-100N-007

G. COPCs FOR SOILS AND STRUCTURES REMAINING AFTER DEMOLITION

What are the potential contaminants of concern for the remaining below-grade soil?

None
 SVOC
 VOC
 Metals
 TPH
 Rad
 PCBs

Other (Specify): The COPCs associated with these facilities were not identified for use with this form because both facilities will be closed out by the Field Remediation organization. Accordingly, the Field Remediation organization will be responsible to identify and address all COPCs associated with these facilities.

Comments:

Waste from the 1607-N1 facility was disposed using waste profile HGP001 (CCN 146959 pg. 2). Waste from the 1607-N2 facility was disposed using waste profile 107N001 (CCN 145646 pg. 1).

Summary of in-process soil sampling requirements:
N/A

Constituents detected / concentrations / rationale
See below.

Sample Collection Summary

A sample collection summary associated with these facilities was not created for use with this form because both facilities will be closed out in entirety by the Field Remediation organization.

H. NOTES / ADDITIONAL INFORMATION

Check here if additional information / data / maps / sketches are attached to this form.

If checked, list the attachment(s):

Explanation of Significant Differences for the 100-NR-1 and 100-NR-2 Operable Units Interim Remedial Action Record of Decision (select portions only)

I. SAMPLING

Are soil samples required to demonstrate that remaining structure or below-grade soils meet cleanup standards? Yes No

Based on the above information it was determined that sampling: will will not be required in order to demonstrate that cleanup criteria have been met.

The individual below acknowledges that the review of this facility has been completed. He or she also commits to provide to the Department of Energy (DOE) and the Washington State Department of Ecology (Ecology) any available information that could alter the sampling decision established in this form.

Information Reviewer Signature <i>David Warren</i>	Printed Name David Warren	Date 3/22/12
---	------------------------------	-----------------

The regulatory representative below agrees with the decision outlined in section I of this form for the indicated facility and supports implementation of that decision based on the information currently available.

DOE Signature <i>[Signature]</i>	Printed Name RF Guercia	Date 3/22/2012
Ecology Signature <i>Nina M. Menard</i>	Printed Name NINA M. MENARD	Date 3/26/2012

Attachment 9

^WCH Document Control

From: Warren, David J
Sent: Monday, March 26, 2012 11:45 AM
To: ^WCH Document Control
Subject: Document CHRON: Ecology Approval for 100-N D4 to operate staging pile above 181-NE

Attachments: RE: Request for Ecology Concurrence to stage river structure sediment outside of 100-N AOC; 181-NE Overlook Sediment Staging Area.pdf

Please CHRON the attached documents per the subject line as they represent a regulatory agreement. Contact me if you have any questions. Thanks.

David Warren
100-N D4 Environmental Project Lead
WCH
539-6040



RE: Request for
Ecology Concur...



181-NE Overlook
Sediment Stagi...

^WCH Document Control

From: Boyd, Alicia
Sent: Monday, March 19, 2012 9:58 AM
To: Warren, David J
Cc: Elliott, Wanda; Faust, Toni L
Subject: RE: Request for Ecology Concurrence to stage river structure sediment outside of 100-N AOC

Dave,

Ecology concurs with continued use of this area as a staging pile as described below.

Alicia L. Boyd
Washington State Department of Ecology
3100 Port of Benton Blvd
Richland, WA 99352
509-372-7934

From: Warren, David J [mailto:djwarren@wch-rcc.com]
Sent: Thursday, March 15, 2012 12:15 PM
To: Boyd, Alicia (ECY)
Cc: Elliott, Wanda (ECY); Faust, Toni L
Subject: FW: Request for Ecology Concurrence to stage river structure sediment outside of 100-N AOC

Alicia,

Here is Robin's original approval to stage river sediment near the 181-NE. We would like to use the area to stage demolition debris/soil beginning tomorrow. The staging pile area will be managed in accordance with Section 4.2.3.2 (Staging Piles) of the Ancillary Facilities RAWP (DOE/RL-2002-70 Rev 3). The sketch from the original e-mail shows a liner but no liner will be used. Use of the staging pile is not anticipated to be required after 12/31/12. Please concur with this e-mail. Thanks.

David Warren
100-N EPL
539-6040

From: Varljen, Robin (ECY) [mailto:RVAR461@ecy.wa.gov]
Sent: Wednesday, August 03, 2011 8:05 PM
To: McCurley, Clay D
Cc: Warren, David J; Reese, Dennis E; Flannery, Michael (Mike) D; Allen, Mark E; Faust, Toni L; 'Rudy Guercia (Rudolph F Rudy Guercia@rl.gov)'; Menard, Nina

Subject: RE: Request for Ecology Concurrence to stage river structure sediment outside of 100-N AOC

Clay,

I assume the entire area, inside points 1, 2, 3 and 4 is outside your AOC, please confirm that assumption. If that is indeed the case all the "work area" would be subject to the closure requirements of the Work Plan and SAP. If that is agreeable, you may consider this reply my concurrence to stage sediment in the area defined in your 181-NE Overlook Map. As this site

does not have its own waste site number we can close it out in conjunction with the AOC but it will be treated as its own decision unit and will be guided by the requirements for close out in DOE/RL-2005-92, current Rev. No additional staging, stockpiling or material handling activities may take place in this area until that activity is approved by Ecology for that area or close out documentation has met with Ecology concurrence.

Ensure you are managing this staging area in compliance with 4.2.3.1 of your work plan by, at a minimum, complying with 40 CFR 264.554, paragraphs (d) through (k) including installation of 6 inch berm surrounding the staging area, using dust control and employing the staging area for no longer than 12 months.

Please let me know if you have questions regarding my guidance on this matter.

You may chron this e-mail and the two maps for inclusion in the next UMM.

Robin Varljen

Washington Department of Ecology
Nuclear Waste Program - Cleanup Section
(509) 372-7930

From: McCurley, Clay D
Sent: Wednesday, August 03, 2011 3:22 PM
To: McCurley, Clay D
Cc: Flannery, Michael (Mike) D; Reese, Dennis E; Warren, David J; Allen, Mark E; Faust, Toni L
Subject: RE: Request for Ecology Concurrence to stage river structure sediment outside of 100-N AOC

Robin. Thanks for stopping by today. Wanted to let you know that I have the coordinates for the sediment staging area, and the work area around it (copy attached). The sediment staging area is between points 5, 6, 7, and 8. The work area is the gray area enclosed within points 1, 2, 3, and 4. We will be closing out these areas with the AOC and per the *100-N Area Sampling and Analysis Plan for CERCLA Waste Sites (DOE/RL-2005-92)*. Let me know if you need additional information. Thanks. Clay

<< File: 181-NE Overlook Sediment Staging Area.pdf >>

From: McCurley, Clay D
Sent: Tuesday, August 02, 2011 3:22 PM
To: Varljen, Robin
Cc: Warren, David J; Reese, Dennis E; Flannery, Michael (Mike) D; Allen, Mark E; Faust, Toni L
Subject: Request for Ecology Concurrence to stage river structure sediment outside of 100-N AOC

Robin.

In accordance with the *Removal Action Work Plan for 100-N Area Ancillary Facilities (DOE/RL-2002-70, Rev.2)*, this is to request Ecology approval to stage river structure sediment at the location shown in the attachment until it has dried sufficiently for transport and disposal at the ERDF. The sediment will be staged/deposited on an impervious bermed liner. Standard site dust suppression, including the use of fixatives, will be used as necessary

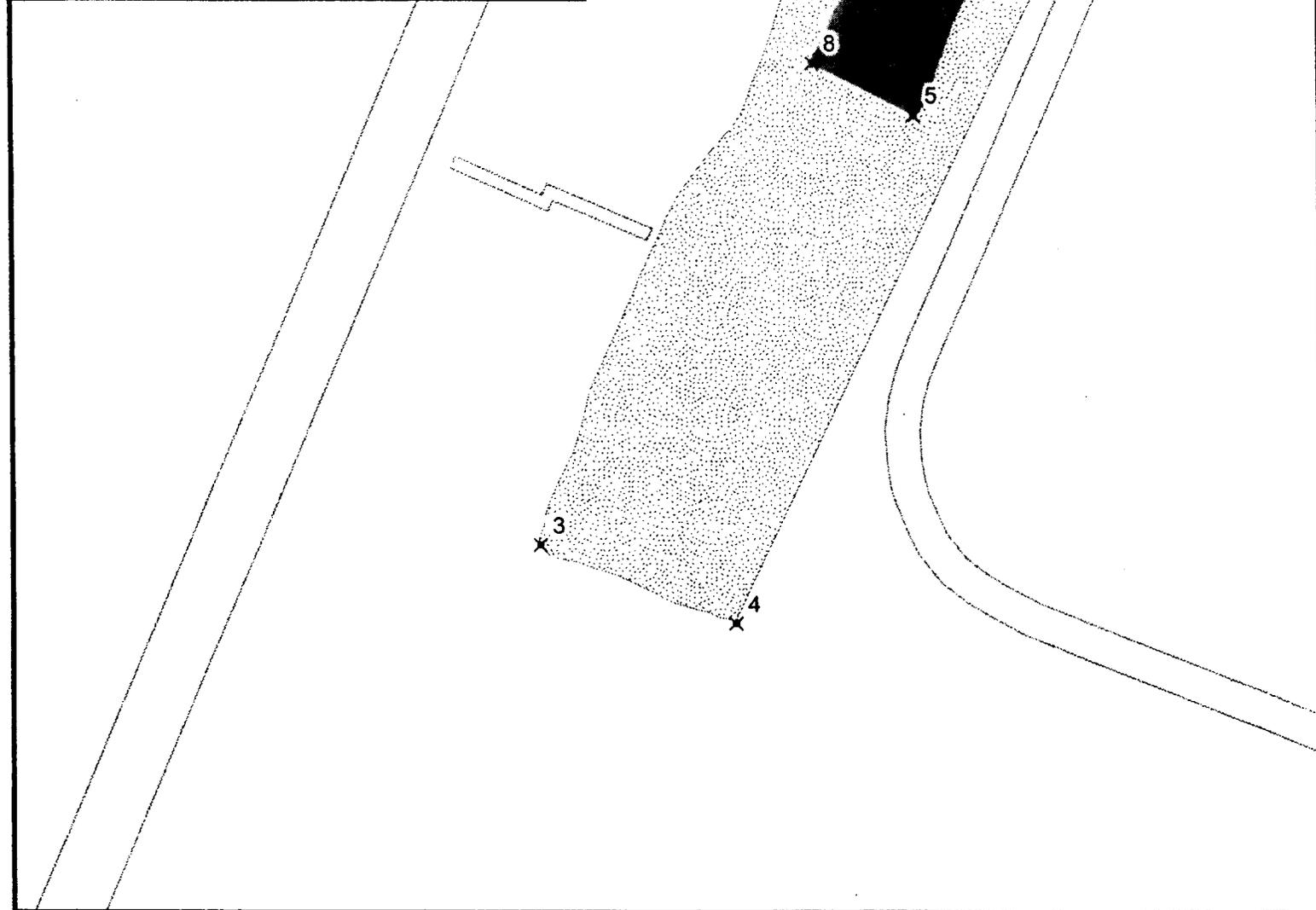
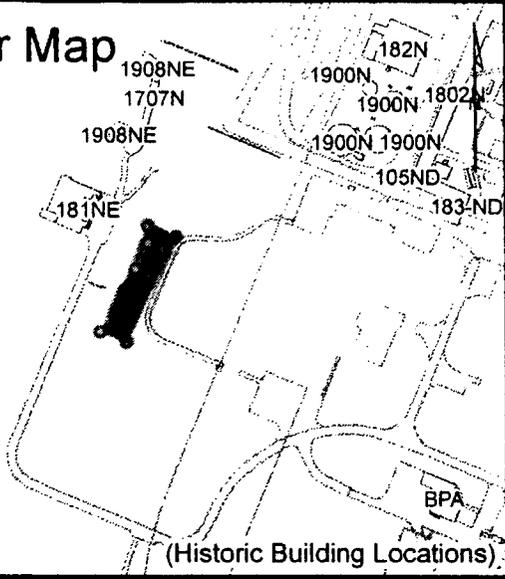
to prevent the sediment from drying and becoming wind blown. Once the sediment has been transported to the ERDF, the soil under and around the liner will be sampled and analyzed for the COPCs identified in the recently approved SAP for the river structures.

Contact me if you have any questions.

Clay

<< File: Proposed Liner Location Above 181-NE.doc >>

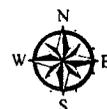
Locator Map



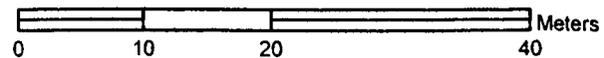
ID	Comment	Northing	Easting
1	corner	149242.88	570909.81
2	corner	149251.46	570890.22
3	corner	149175.39	570856.67
4	corner	149168.11	570874.49
5	corner	149215.37	570890.99
6	corner	149234.89	570899.48
7	corner	149238.88	570890.30
8	corner	149220.16	570881.64

- ✕ GPS Points
- Containment Area
- ▨ Working Area

181-NE Overlook



US State Plane 1983 Zone : Washington South 4602; NAD83, NAVD88
 Units are in Meters



Attachment 10

100K AREA Unit MANAGERS MEETING STATUS

April 12, 2012

RL-0012 sludge Treatment Project

- The Sludge Treatment and Technology Evaluation Report with proposed new interim milestones to satisfy TPA Milestone M-016-171 was submitted to EPA on March 28, 2012.
- Warm water oxidation was selected as the technical baseline for sludge treatment
- Size reduction and Fenton's Reagent processes have been identified as potential enhancements to reduce processing time and gain schedule efficiencies.
- A preliminary technology maturation plan was completed on March 29, 2012 to support completion of M-016-171.
- A draft change package to establish two interim milestones in FY14 toward completion of interim milestone M-016-173 was transmitted to EPA for review and comment.
- Pre-conceptual activities are being planned, including a facility location study to evaluate existing new, and hybrid facility alternatives; and uranium metal size reduction technology testing. A preliminary technology maturation plan has been issued. The facility location study was initiated in March. A draft decision plan has been developed and is under
- Construction acceptance of Knockout Pot Processing (KPS) production hardware was completed in April 2012
- KW Basin operations personnel will validate the KPA operating procedure and complete formal implementation of the modified Safety Basis Documentation in April.
- Operational readiness activities are underway to verify systems, procedures, and personnel are ready for startup operations.
- Thirty-eight MCO copper inserts that will hold the KOP product material have been received at the Hanford Site and are undergoing receipt inspection.
- Nuclear safety basis documentation for KPS operations in KW Basin, and Canister Storage Building have been approved by RL. The nuclear safety basis documentation for Cold Vacuum Drying Facility and Canister Storage Building has been approved by RL.
- The KW Basin Annex and building systems final design (issued in construction drawings) is expected to be completed in April 2012.
- Engineered Container Retrieval and Transfer System optimization testing continues at MASF as well as final design of the system.
- A Technology Readiness Assessment (TRA) will be held in June 2012 to support completion of final design.
- Mobile office and infrastructure installation has begun to support KW Basin Annex construction contractor mobilization.

- Procurement of a construction contractor for the KW Basin Annex is in progress. Proposals have been received and are being reviewed for selection. Contract award is expected in May 2012.
- DOE review of the request for early procurement and construction is in progress and expected to be completed in April 2012.

RL-0041K Facility Demolition and Soil Remediation

Remedial Actions:

- The verification sample instructions for Area AA Zone 1 and 2 were approved by RL and EPA. for review and comment on March 13, 2012. The sample instructions support verification sampling of the following phase 1 waste sites: 100-K-102, 100-K-18, 100-K-19, 100-K-34, 120-KW-5, 120-KW-7 and 1607-K3. Sampling of these waste sites is scheduled to begin on April 15, 2012.
 - The Remaining Sites Verification Package for waste site 100-K-63 will be provided to RL for review and comment mid April.
 - Remediation of the 100-K-3 waste site has resumed; 66 ERDF containers (1096 tons) of contaminated soil have been disposed to ERDF. Continued remediation at 100-K-68, 100-K-69, 100-K-70, and 100-K-71 waste sites will commence following completion of 100-K-3.
 - Collection of in-process samples in Area AH at the following Phase 1 waste sites: 100-K-6, 132-KE-1, 100-K-46, 100-K-62 and 100-K-53 was completed. Sample results will provide the information needed to determine if additional remediation is required or if the sites are ready for verification sampling. Sample results are expected April 16, 2012.
 - The verification sample instructions for Area AA Zone 1 and 2 were approved by RL and EPA. The sample instructions support verification sampling of the 100-K-102Phase 2 waste site.
 - An MOA for remediation work on the 100-K Eastern floodplain at 100-K-80, 100-K-81, 100-K-83, and 100-K-96 waste sites is under review by DOE and the Tribes. Demolition of the 182-K substructure and removal of waste site 100-K-106 continued and is approximately 85% complete.
 - Asbestos removal is complete at the 105-KE water tunnel, approximately 45% complete at 165-KE, and approximately 10% complete at 183.7KE.
 - Disposal of the pumps and motors from demolition of 190-KW has been completed and approximately 12 inches of soil was removed from the staging area and sent to ERDF for disposal on April 5, 2012.
- Demolition of 183.2 KE was not worked, remains 35% complete. Sediment removal continues from the western bays of the sedimentation basin in preparation for sampling. Concrete samples have been taken from the eastern bays of the sedimentation basin Soil samples from under the eastern bays are pending completion of additional demolition.

Attachment 11

300 Area Closure Project Status
April 12, 2012
100/300 Area Combined Unit Manager Meeting

Ongoing Activities

- 309 – Reactor core drilling and other associated removal preparations ongoing.
- 340 Complex – Completing demolition of the 307 Basins and removal of RRLWS and RLWS piping. Preparations for vault removal ongoing.
- 3730 – Completed initial grouting of source array and continue hot cell strip-off and grout preparations.
- 308 – Above-grade demolition completed, below-grade demolition to commence.
- 326 – Tritium decontamination ongoing.
- 320 – Completed below-grade demolition, backfill initiated.
- 327 – Below-grade demolition ongoing.
- 321 & 3706 – Completing remediation.
- 323 – Preparing to pump water from four below-grade tanks and ship to ETF for treatment.
- Preparing for asbestos abatement in 337B caisson.
- Slab removal west of Alaska continues, close-out of initial group initiated.

Demolition & Remediation Preparation Activities

- Preparing for process sewer north of Apple, waste site close-out ongoing in same area.
- Finalize preparations for 310 TEDF demolition.
- Completing demolition preparations for 3766 Building.

60-Day Project Look Ahead

- Continue authorization reviews for asbestos abatement activities.
- Continue 340 Complex waste site remediation and finalize engineering for vault removal.
- Complete 308 below-grade demolition. Finalize engineering for TRIGA reactor removal.
- Complete backfill and close-out of 320 Building.
- Complete 327 below-grade demolition.
- Complete work at the 337 Complex, backfill and close area.
- Initiate north of Apple (Zone 7) process sewer remediation.
- Complete remediation 321 and 3706 areas.
- Continue 309 reactor removal activities.
- Grout sources and hot cells in 3730 Gamma Irradiation Building.
- Initiate 310 TEDF demolition.
- Continue slab removal campaign.

Attachment 12

Environmental Protection Mission Completion Project
April 12, 2012

Long-Term Stewardship

- The consolidated draft 100-F/IU-2/IU-6 – Segment 3 turnover and transition package was submitted to RL for review on April 6, 2012.
- RL and EPA comments on the 100-F/IU-2/IU-6 Area – Segment 3 Interim Remedial Action Report are currently being incorporated. The document will be finalized for submittal later in April.

River Corridor Baseline Risk Assessment

- Rev. 0 of the RCBRA Ecological Risk Assessment (Volume I) was issued to RL on March 14, 2012.

Remedial Investigation of Hanford Site Releases to the Columbia River

- Disposition of regulator comments on the Draft A screening level ecological risk assessment continues. Three meetings have been held with the Tri-Parties to review redline sections of the updated document. Additional sessions are planned throughout April.
- EPA comments on the Draft A human health risk assessment were received on March 1, 2012. Ecology comments were received on March 16. An initial comment resolution meeting was held on April 3, 2012 with additional follow-up sessions scheduled during April.

Document Review Look-Ahead

- None