1225034
176018

Please distribute to the following:

100/300 AREA UNIT MANAGER MEETING
ATTENDANCE AND DISTRIBUTION

NAME	E-MAIL ADDRESS	MSIN	COMP
Childers, Heather	Original +1 copy	H6-08	ADREC
Charboneau, Briant L	Briant_L_Charboneau@rl.gov	A6-33	DOE
French, Mark	Mark_S_French@rl.gov	A6-38	DOE
Menard, Nina	NMEN461@ECY.WA.GOV	H0-57	ECO
Gadbois, Larry E	Gadbois.larry@epa.gov	B1-46	EPA
Hadley, Karl A	karl.hadley@wch-rcc.com	H4-21	WCH

122019
122018
0095166

100/300 AREA UNIT MANAGERS MEETING
APPROVAL OF MEETING MINUTES

April 10, 2014

APPROVAL: _____ Date 5/8/14
Mark French, DOE/RL (A6-38)
River Corridor Project Manager

APPROVAL: _____ Date 5/8/14
Brian Charboneau, DOE/RL (A6-33)
Groundwater Project Manager

APPROVAL: _____ Date 5/13/14
Nina Menard, Ecology (H0-57) FOR
Environmental Restoration Project
Manager

APPROVAL: _____ Date 5/8/14
Laura Buelow, Rod Lobos, or Christopher
Guzzetti, EPA (B1-46)
100 Area Project Manager

APPROVAL: _____ Date 5/8/14
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); Mission Completion; and 100-K Sludge Treatment Project and 100-K Facility Demolition and Soil Remediation Projects

April 10, 2014

ADMINISTRATIVE

- Next Unit Manager Meeting (UMM) – The next meeting will be held May 8, 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 March 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 April 10, 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 status of the 100-K Sludge Treatment Project and the 100-K Facility Demolition and Soil Remediation projects. No issues were identified and no action items were documented.

> Agreement 1: Attachment 4 provides Ecology's concurrence with removal, inspection, and survey of the 100-K CTA and relocation of the upper six inches of gravel to support a new access road being created for a well near the southern portion of the 100-N borrow pit.

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 the Facility Status Change Form for the 181N cable Float Barriers.

Agreement 2: Attachment 10 provides EPA's approval of the shipment of one 55 gallon drum of bunker oil, 2 five liter containers (packaged in a 16 gallon drum) of unused, expired Opti Fluor, and two 110-gallon drums of unleaded gasoline contaminated soil to Burlington Environmental, LLC, in Kent, WA for treatment and disposal.

Agreement 3: Attachment 11 provides DOE's and Ecology's concurrences that a focused verification sample is not needed to verify stained soil removal at the 100-N-84:7 pipeline site and that no further remediation to remove PAHs associated with the RR-5 sample location needs to be performed since the PAHs are associated with asphaltic pipe coatings.

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 12 provides the Field Remediation Schedule for 100-D and 100-H. No issues were identified and no agreements or action items were documented.

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 13 provides the Field Remediation Schedule for IU-2/6. No issues were identified and no action items were documented.

Agreement 1: Attachment 14 provides DOE's and EPA's approvals to use smaller CERCLA warning signs at the entrance to the 600-346 and 600-20 waste sites.

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 action items were documented.

Agreement 1: Attachment 15 provides EPA's approval that DSSI is acceptable for shipments through May 19, 2014.

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

Attachment 1 provides status and information for groundwater. Attachment 16 provides status of the 300 Area Closure Project activities. No issues were identified and no agreements or action items were documented.

MISSION COMPLETION PROJECT

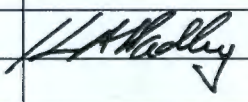
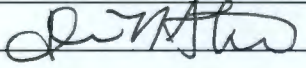
Attachment 17 provides status and information regarding the Long-Term Stewardship, the 300 Area Final Action ROD RDR/RAWP, and a Document Review Look-Ahead. No issues were identified and no agreements or action items were documented.

Attachment A

100/300 AREA UNIT MANAGER MEETING
ATTENDANCE AND DISTRIBUTION
April 10, 2014

NAME	E-MAIL ADDRESS	MSIN	COMP	SIGNATURE
Childers, Heather	Original +1 copy	H6-08	ADREC	
Balone, Steven N	steven.balone@rl.doe.gov	A3-04	DOE	
Chance, Joanne C	joanne.chance@rl.doe.gov	A3-04	DOE	
Charboneau, Briant L	briant.charboneau@rl.doe.gov	A6-33	DOE	
Clark, Clifford E	cliff.clark@rl.doe.gov	A5-15	DOE	
Cline, Michael	michael.cline@rl.doe.gov	A6-33	DOE	
Dagan, Ellen	ellen.dagan@rl.doe.gov	A3-04	DOE	
French, Mark	mark.french@rl.doe.gov	A3-04	DOE	
Glossbrenner, Ellwood	ellwood.glossbrenner@rl.doe.gov	A3-04	DOE	
Guercia, Rudolph F	rudolph.guercia@rl.doe.gov	A3-04	DOE	
Hansen, James A	james.hansen@rl.doe.gov	A5-11	DOE	
Hanson, James P	James_P_Hanson@rl.gov	A5-11	DOE	
Louie, Catherine S	catherine.louie@rl.doe.gov	A3-04	DOE	
Morse, John G	John_G_Morse@rl.gov	A5-11	DOE	
Neath, John P	john.neath@rl.doe.gov	A3-04	DOE	
Teynor, Thomas K	thomas.teynor@rl.doe.gov	A3-04	DOE	
Post, Thomas	thomas.post@rl.doe.gov	A3-04	DOE	
Quintero, Roger	roger.quintero@rl.doe.gov	A6-38	DOE	
Sands, John P	john.sands@rl.doe.gov	A3-04	DOE	
Sinton, Gregory L	gregory.sinton@rl.doe.gov	A6-38	DOE	
Smith, Chris	douglas.smith@rl.doe.gov	A3-04	DOE	
Thompson, Mike	kenneth.thompson@rl.doe.gov	A6-38	DOE	
Zeisloft, Jamie	jamie.zeisloft@rl.doe.gov	A3-04	DOE	
Ayres, Jeffrey M	JAYR461@ECY.WA.GOV	H0-57	ECO	
Bond, Fredrick	FBON461@ECY.WA.GOV	H0-57	ECO	
Boyd, Alicia	ABOY461@ECY.WA.GOV	H0-57	ECO	
Crumpler, Dwayne	DCRU461@ECY.WA.GOV	H0-57	ECO	
Elliot, Wanda	WELL461@ECY.WA.GOV	H0-57	ECO	
Goswami, Dib	DGOS461@ECY.WA.GOV	H0-57	ECO	
~~Huckaby, Alisa D~~	~~AHUC461@ECY.WA.GOV~~	~~H0-57~~	~~ECO~~	
Jackson-Maine, Zelma	ZJAC461@ECY.WA.GOV	H0-57	ECO	
~~Jones, Mandy~~	~~MJON461@ECY.WA.GOV~~	~~H0-57~~	~~ECO~~	
Kapell, Arthur	AKAP461@ECY.WA.GOV	H0-57	ECO	

Menard, Nina	NMEN461@ECY.WA.GOV	H0-57	ECO	
Rochette, Elizabeth	BROC461@ECY.WA.GOV	H0-57	ECO	
Smith-Jackson, Noe'l	NSMI461@ECY.WA.GOV	H0-57	ECO	
Whalen, Cheryl	CWHA461@ECY.WA.GOV	H0-57	ECO	
Buelow, Laura	Buelow.laura.epa.gov	B1-46	EPA	
~~Gadbois, Larry E~~	~~Gadbois.larry@epa.gov~~	~~B1-46~~	~~EPA~~	
Gerhart, Rebecca		B1-46	EPA	
Guzzetti, Christopher	Guzzetti.christopher@epa.gov	B1-46	EPA	
Lobos, Rod	Lobs.rod@epa.gov	B1-46	EPA	
Barrett, Bill F	William_F_Barrett@rl.gov	E6-44	CH	
Borghese, Jane V	Jane_V_Borghese@rl.gov	E6-35	CH	
Bowles, Nathan A.	Nathan_Bowles@rl.gov	R3-60	CH	
Burke, Philip A	Philip_A_Burke@rl.gov	A0-20	CH	
Day, Roberta E	Roberta_E_Day@rl.gov	E6-35	CH	
Dittmer, Lorna M	Lorna_M_Dittmer@rl.gov	H8-45	CH	
Dixon, Brian J	Brian_J_Dixon@rl.gov	T4-03	CH	
Doornbos, Martin	Martin_H_Doornbos@rl.gov	R3-50	CH	
Eluskie, James	James_A_Eluskie@rl.cov	R3-50	CH	
Faught, William	William_R_Faught@rl.gov	R3-50	CH	
Feist, Ella	Ella_T_Feist@rl.gov		CH	
Ford, Bruce H	Bruce_H_Ford@rl.gov	H8-43	CH	
Hartman, Mary J	Mary_J_Hartman@rl.gov	B6-06	CH	
Toews, Michelle R	Michelle_R_Toews@rl.gov	R3-60	CH	
Triner, Glen C	Glen_C_Triner@rl.gov	E6-44	CH	
Fruchter, Jonathan S	john.fruchter@pnl.gov	K6-96	PNNL	
Peterson, Robert E	robert.peterson@pnl.gov	K6-75	PNNL	
Cimon, Shelley	scimon@oregontrail.net	--	Oregon	
Boothe, Gabriel	Gabriel.Boothe@doh.wa.gov	--	WDOH	
Danielson, Al	Al.danielson@doh.wa.gov	--	WDOH	
Utley, Randy	Randell.Utley@doh.wa.gov	--	WDOH	
Lilligren, Sandra	sandral@nezperce.org	--	TRIBES	
Vanni, Jean	jvynerwm@hotmail.com	--	TRIBES	
Biebrich, Ernie	mailto:ejbiebri@wch-rcc.com	X3-40	WCH	
Buckmaster, Mark A	mark.buckmaster@wch-rcc.com	X9-08	WCH	
Carlson, Richard A	richard.carlson@wch-rcc.com	X4-08	WCH	
Capron, Jason	jmcapron@wch-rcc.com	H4-23	WCH	
Cearlock, Christopher S	cscearlo@wch-rcc.com	H4-22	WCH	

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

Attachment B

100/300 Area UMM
Action List
April 10, 2014

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Status
O	100-199	RL	J. Neath	All	DOE will present a briefing on the new DOE beryllium posting requirements for worker protection.	Open: 3/13/14; Action:

Attachment C

100/300 Area Unit Manager Meeting
April 10, 2014
Washington Closure Hanford Building
2620 Fermi Avenue, Richland, WA 99354
Room C209; 2:00p.m.

Administrative:

- Approval and signing of previous meeting minutes (March 13, 2014)
- Update to Action Items List
- Next UMM (5/8/2014, 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

Attachment 1

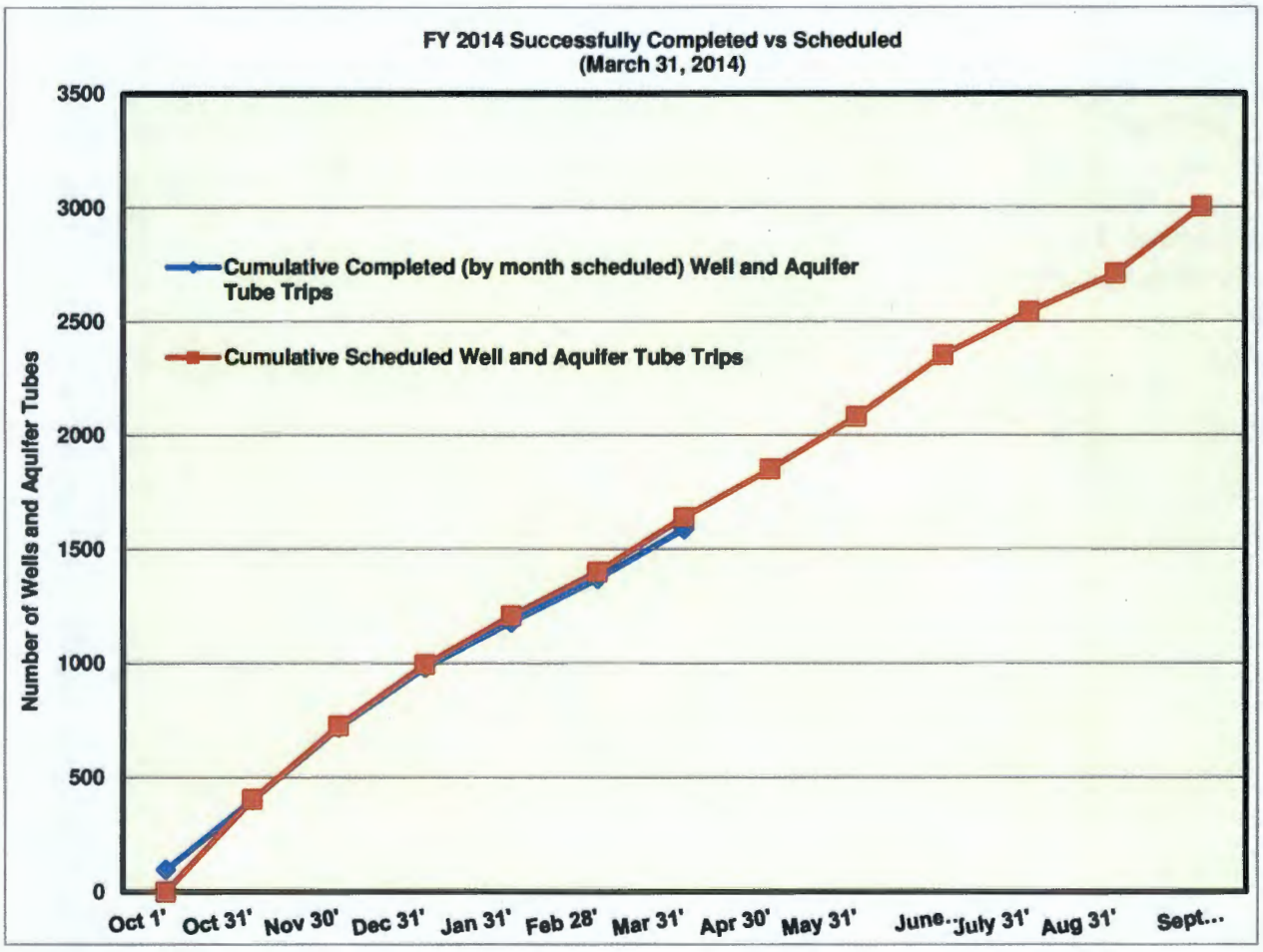
100/300 Areas Unit Managers Meeting
April 10, 2014

General information on Remedy Selection & Implementation

Hanford's overall Site groundwater monitoring program (River Corridor and Central Plateau) for 2014 has 3,003 sample trips scheduled. During March 2014 (month six) the program successfully completed 218 sampling trips of the 240 scheduled (for March) and 40 trips scheduled for October through February. Therefore, the total number of successful sample trips versus the schedule, for October through March is 1,588 of 1,640. The graph immediately below present the programs results for FY 2014 completed versus schedule sample trips.

The specific wells, aquifer tubes and spring sampled in the River Corridor areas only during March are listed in Table 1. Table 2 presents the samples for the River Corridor only that were not successfully completed in March. Sample trips scheduled for collection in April 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-KR-4 Groundwater Operable Unit – Ella Feist/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. Planning is underway to complete the characterization in FY15.
  - 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. March 2014 performance:
    - The systems treated 47.45 million gallons.
    - The system removed 3.84 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.
  - Continued construction of well 199-K-206, which is planned as an injection well for the KW P&T.
  - Initiated drilling of well 199-K-210, which is planned as an extraction well for the KX P&T.
  - Initiated drilling of well 199-K-212, which is planned as an extraction well for the KX P&T.
  - Initiated drilling of well 199-K-220, which will be a high volume high concentration extraction well at the KE head house.
- Monitoring and Reporting
  - Nothing new to report.

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:
  - New wells have been accepted and added to the well access list.
- Monitoring & Reporting
  - Hyporheic sampling points (HSPs): The 14 shallow HSPs were sampled for Cr(VI) in March. As illustrated in Figure BC-1, river stage was higher than during previous sampling events because of the recent releases from Wanapum Dam. Concentrations generally were lower in March, partially due to the high river stage (Figure BC-2). However, several HSPs (notably C8844 and C8848) showed sudden declines in specific conductance that suggest the seals may be failing. Conductance data from the dataloggers in those two HSPs will help determine if that is the problem. If so, the HSPs cannot be repaired or replaced until river stage is low. Meanwhile, the 1-meter deep tubes adjacent to these two HSPs have been added to the monthly sampling schedule beginning in April.
  - Initial evaluation of *in situ* specific conductance data from the HSPs (through mid-February) indicates that sampling events create an increase in conductance (i.e., pumping increases the amount of groundwater entering the HSP). This indicates that pumping does not cause "short circuiting" of river water around the HSPs.
  - The first routine samples from the 8 new monitoring wells were collected in March. Results are not yet available. The wells are scheduled for sampling again in late April, and quarterly for the next year.
  - Data from the February sample from well 199-B4-14 was loaded into HEIS. The result, 35.7 µg/L, was similar to results from recent months (37 to 40 µg/L in December and January).

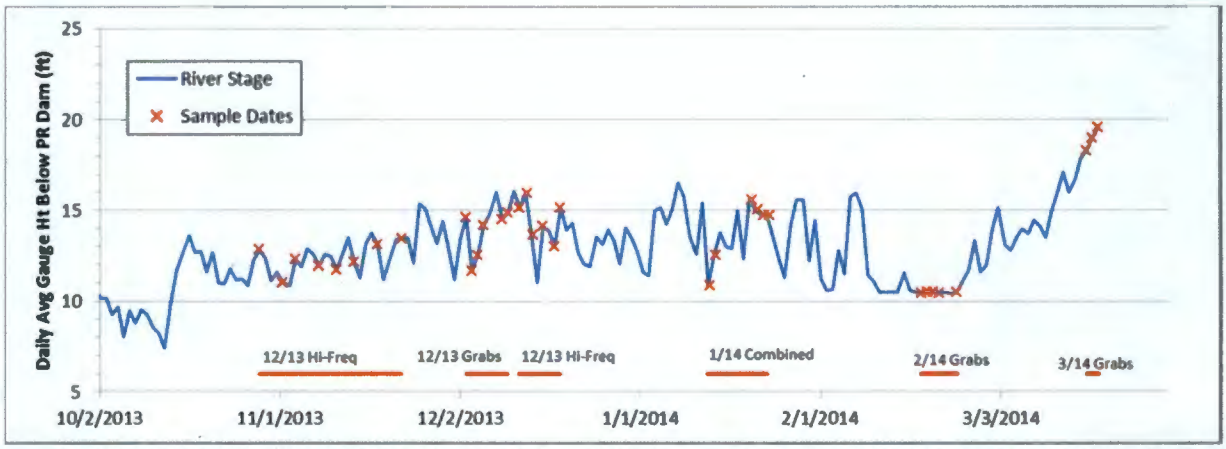


Figure BC-1. Daily Average River Stage Below Priest Rapids Dam and 100-BC HSP Sample Dates

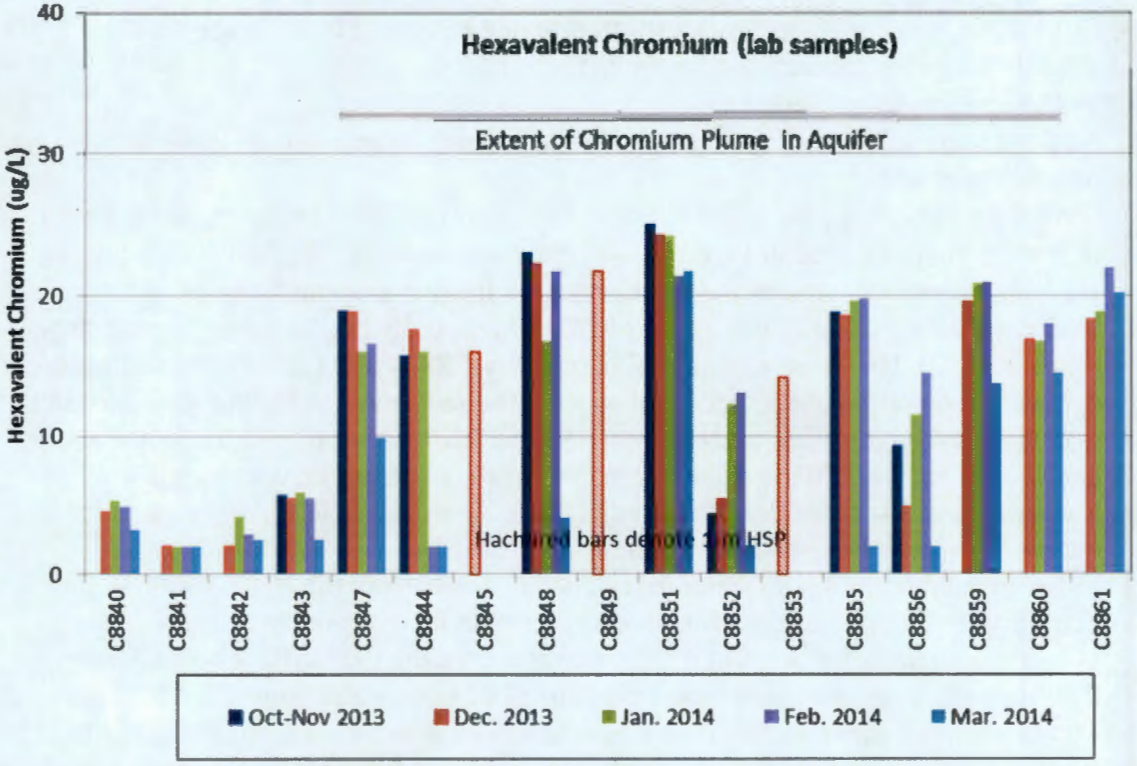


Figure BC-2. Hexavalent Chromium in 100-BC Hyporheic Sampling Points. Bars indicate average of filtered, unfiltered, and replicate samples where available; Suspect data from C8859, C8860, and C8861 excluded (undergoing review)

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 the majority of Ecology's comments 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 in 2014.
  - The construction and performance report is being prepared on the apatite barrier wells completed in 2011 in accordance with the design optimization study. The document is being final reviewed by PNNL the week of April 7, 2014.
- Monitoring & Reporting:

  Background- Aquifer tubes C7934, C7935, and C7936 are located adjacent to one another (Figure 100NR2-1), with screens at depths of 14.41 ft (C7934), 18.75 ft (C7935), and 29.19 ft (C7936). Samples were collected from these aquifer tubes on October 7, 2013; February 13, 2014; and March 25, 2014. The next samples are scheduled for April.

  - Tritium: Based upon the February 13 results, concentrations of tritium increased in two aquifer tubes to 170,000 pCi/L (C7934) and 160,000 pCi/L (C7935); and concentrations decreased in one aquifer tube to 68,000 pCi/L (C7936) (Figure 100NR2-2). The elevated tritium concentrations are 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 March 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 a 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. There appears to be a peaking and potentially lowering or reduction in the February concentrations.

  - The next event for CERCLA sampling is scheduled for June 2014. The next event for RCRA sampling is scheduled for September 2014.

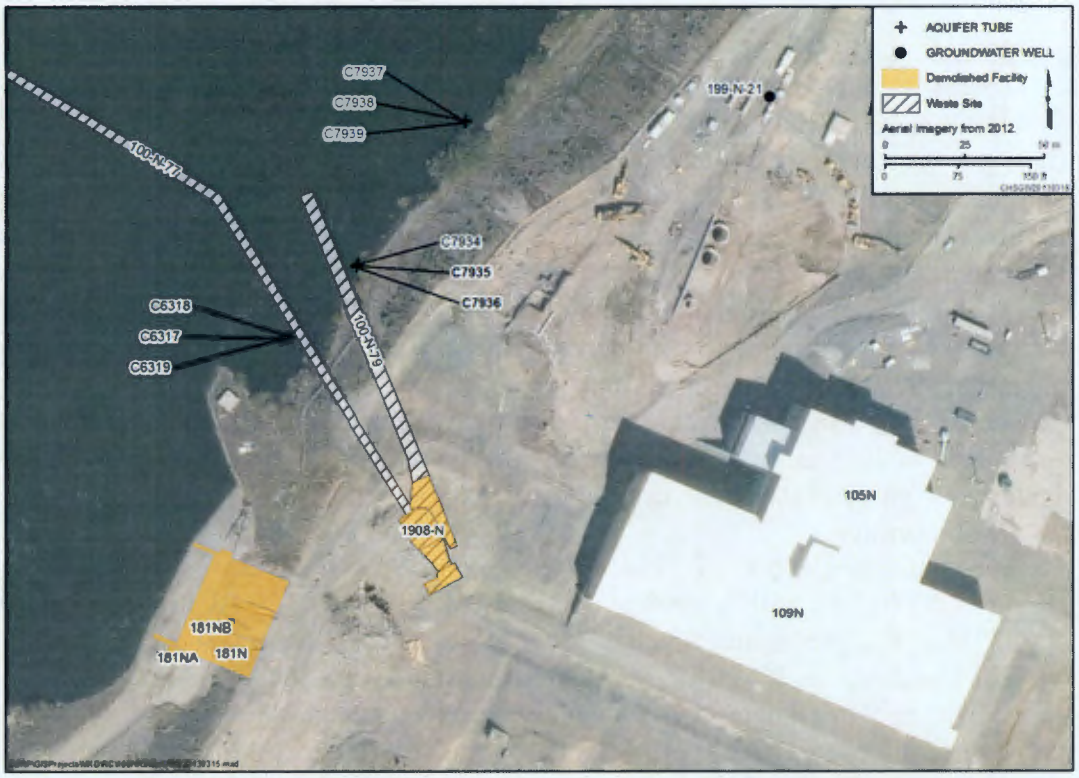


Figure 100NR2-1. Locations of Aquifer Tubes C7934, C7935, and C7936.

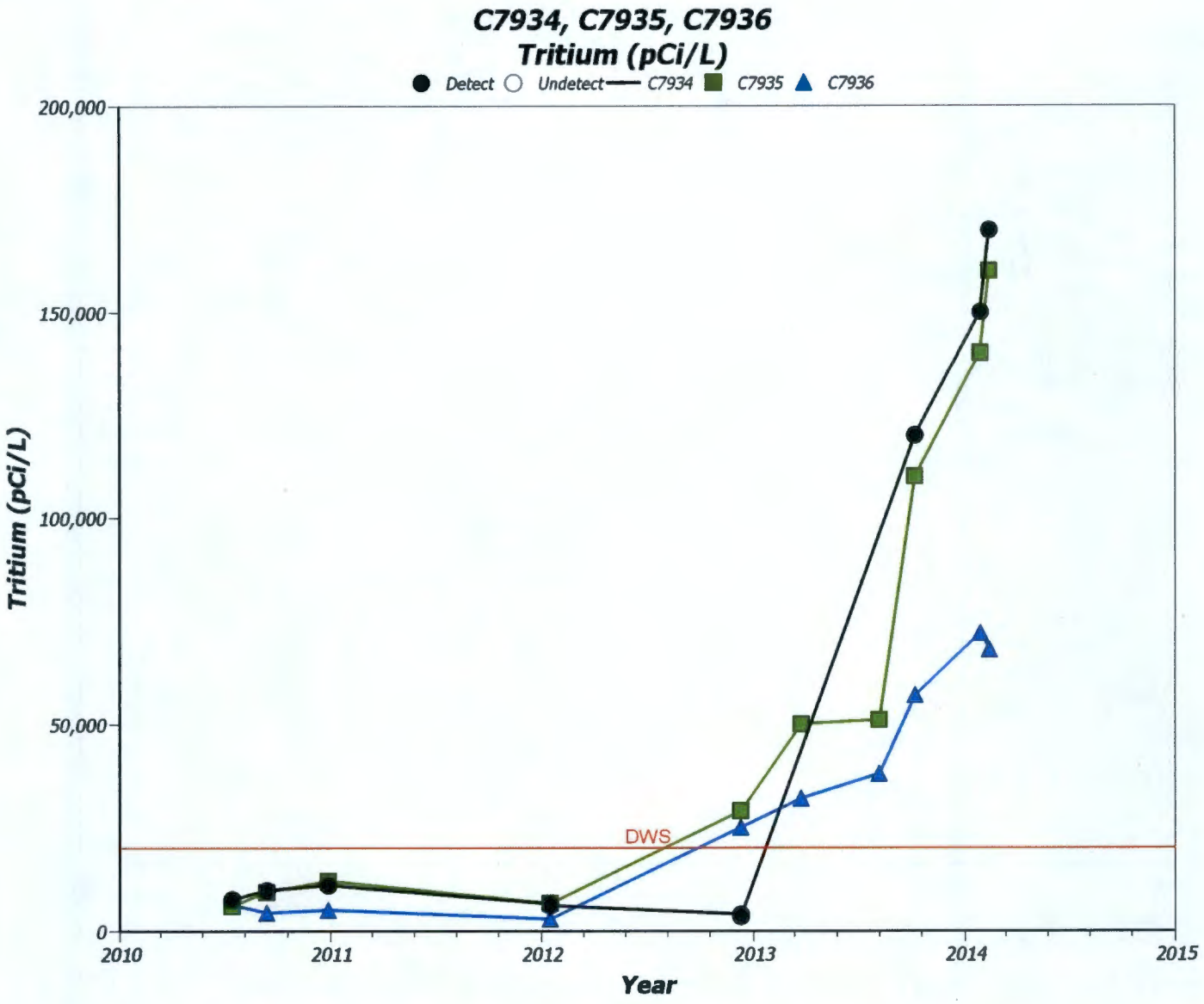


Figure 100NR2-2. Tritium Trends (through February 13, 2014) at Aquifer Tubes C7934, C7935, and C7936 in the 100-NR-2 OU

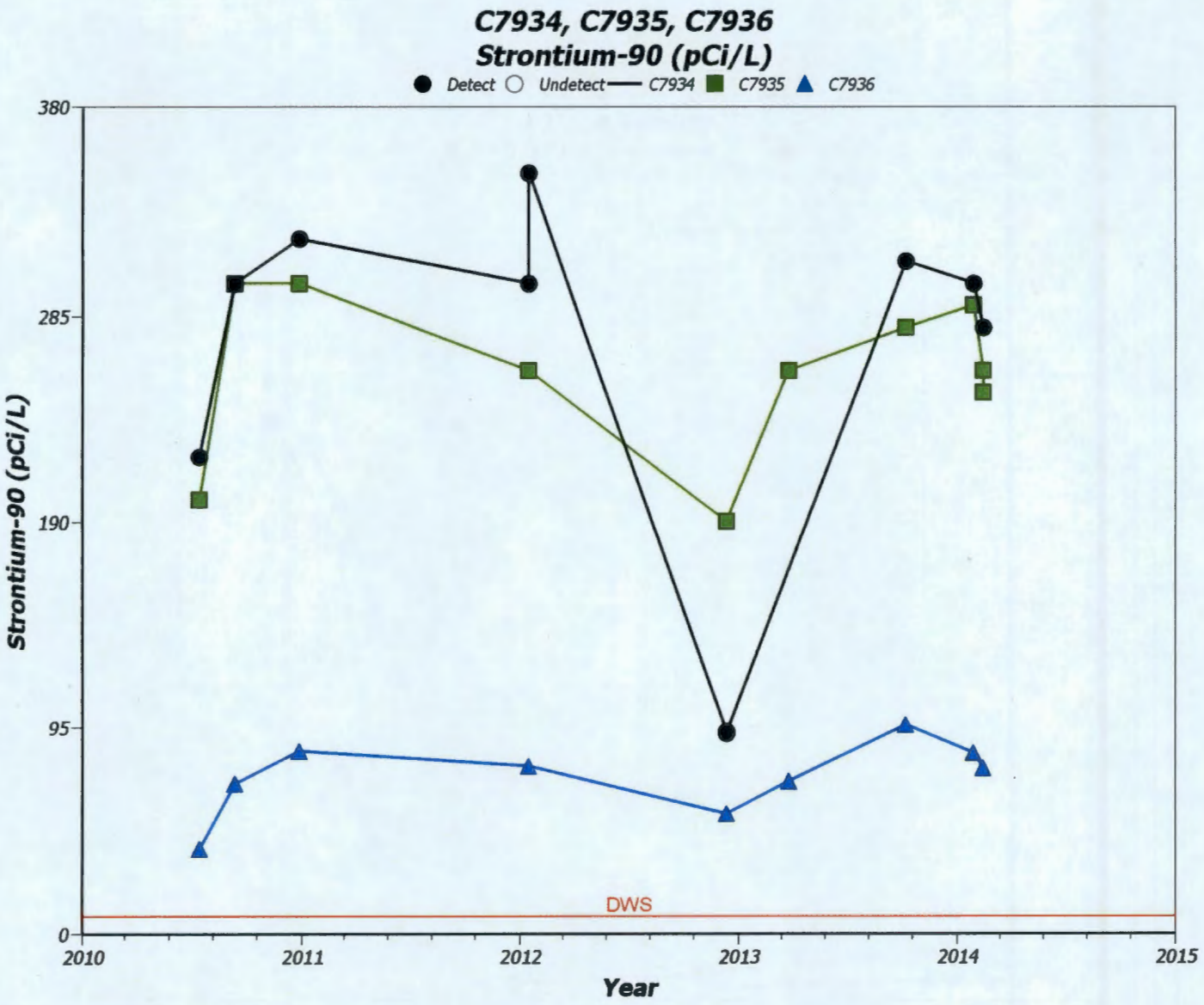


Figure 100NR2-3: Strontium-90 Trends (through February 13, 2014) in Aquifer Tubes C7934, C7935, and C7936

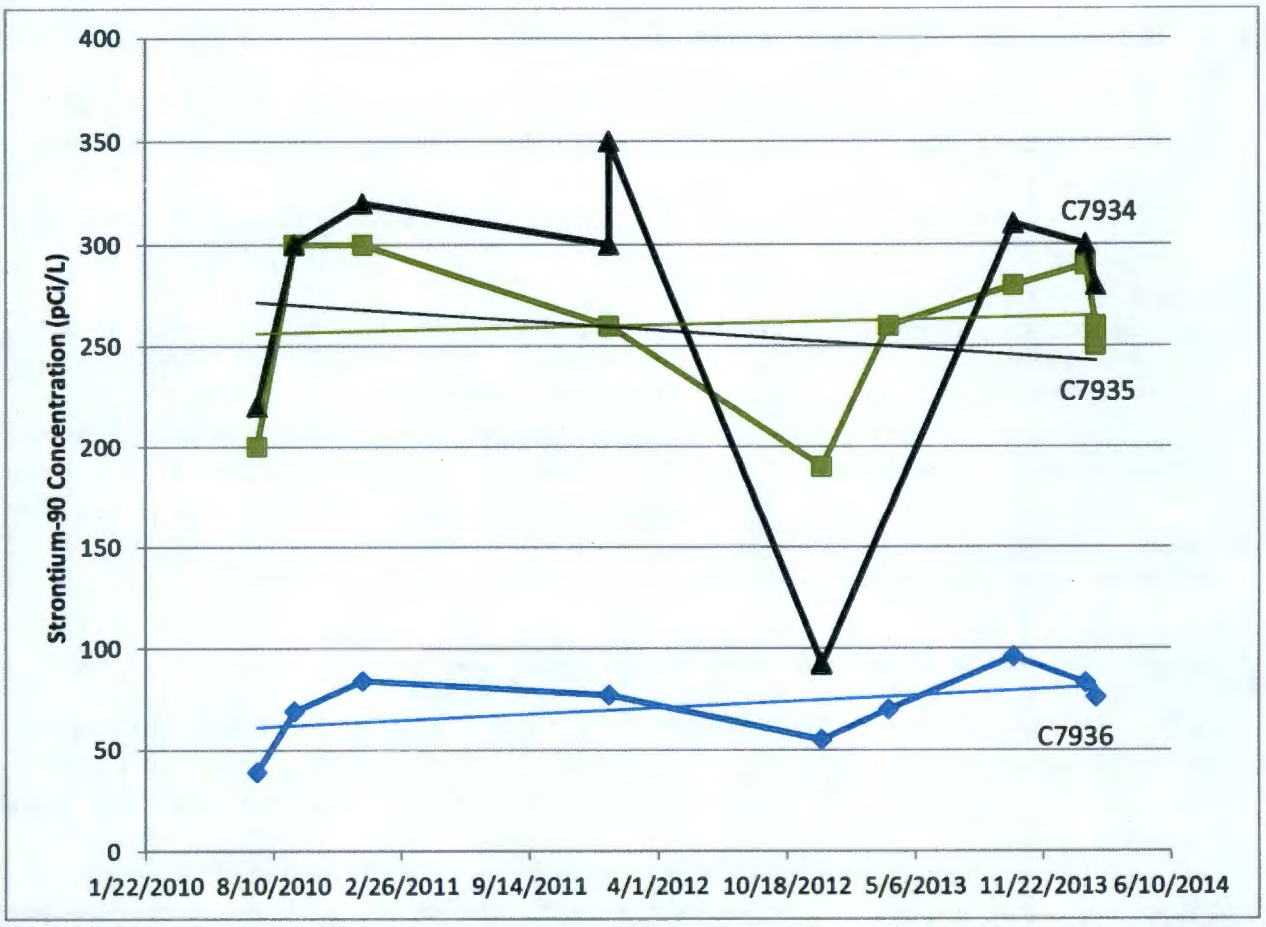


Figure 100-NR2-4. Strontium-90 Trend Plots and Linear Trend-Lines for Aquifer Tubes C7934, C7935, and C7936 as of February 13, 2014.

100-HR-3 Groundwater Operable Unit – Ella Feist/Kris Ivarson

- CERCLA Process Implementation:
  - RI/FS & PP: RL has provided proposed responses to approximately 98% of more than 700 comments on the RI/FS document. RL and Ecology have reach agreement on resolution of approximately 94% 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. March 2014 performance:
    - The systems treated 51.35 million gallons
    - The system removed 25.36 kg of hexavalent chromium.
  - Surface soil sampling at 100-D-100 has been completed, sample results received, and the locations for the boreholes selected. Contracting for borehole/well installation is in progress. Drilling is currently anticipated to start in early May, dependent on the contract award date.
- Monitoring & Reporting
  - No activities to report.

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

- CERCLA Process Implementation:
  - EPA legal comments on the draft final Proposed Plan (PP) were received and a series of meetings were conducted to reach resolution of the comments and revise the PP. The final Revision 0 documents (RI/FS, PP, and fact sheet) are anticipated to be completed during the April through May timeframe.
  - The public comment period is anticipated to occur in 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.

300-FF-5 Groundwater Operable Unit – Bert Day/Virginia Rohay

- CERCLA Process Implementation:
  - Submitted Integrated Remedial Design Report/Remedial Action Work Plan, Decisional Draft, for review by RL on March 13, 2014. Initiated comment resolution and document updates on comments received through March 20, 2014.
- Monitoring & Reporting
  - 300 Area Industrial Complex: Completed sampling at 62 of the 65 wells (as of April 2, 2014) that were scheduled to be sampled in December. Of the 3 wells not yet sampled, one requires maintenance and two require access restrictions to be addressed; the wells will be sampled when available. Completed sampling at all 13 wells scheduled for March.
  - 340 Vault Area: Sampled wells downgradient of 340 Vault in March.
  - 618-11 Burial Ground: Nothing new to report.
  - 618-10 Burial Ground/316-4 Crib: As of April 2, 2014, 5 of the 6 wells scheduled for sampling in December 2013 had been sampled and one of the two wells scheduled for sampling in March had been sampled. Access restricted at one well due to 618-10 field remediation; it will resume sampling when available.
  - 300 Area Process Trenches (316-5) RCRA Monitoring: As of April 2, 2014, all 8 wells scheduled to be sampled in March had been sampled.
  - 300 Area Aquifer Tubes: Nothing new to report.

100/300 Areas Unit Managers Meeting
April 10, 2014

Information Tables for Groundwater Sampling

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

100-BC-5	100-FR-3	100-HR-3-D	100-HR-3-H	100-KR-4	100-NR-2	1100-EM-1	300-FF-5
199-B4-14		199-D2-11	199-H1-1		199-K-150		399-1-10A
199-B4-16		199-D2-11	199-H1-2		199-N-105A		399-1-10B
199-B4-18		199-D3-2	199-H1-25		199-N-14		399-1-16A
199-B5-10		199-D4-14	199-H1-27		199-N-165		399-1-16B
199-B5-11		199-D4-22	199-H1-34		199-N-173		399-1-17A
199-B5-12		199-D4-23	199-H1-36		199-N-185		399-1-17B
199-B5-13		199-D4-25	199-H1-39		199-N-186		399-1-18A
199-B5-14		199-D4-38	199-H1-4		199-N-187		399-1-18B
199-B5-9		199-D4-62	199-H1-42		199-N-188		399-1-21A
C8840		199-D5-103	199-H1-43		199-N-2		399-2-1
C8841		199-D5-103	199-H1-45		199-N-210		399-3-10
C8842		199-D5-104	199-H1-6		199-N-268		399-3-12
C8843		199-D5-104	199-H3-2A		199-N-269		399-3-12
C8844		199-D5-106	199-H3-2C		199-N-28		399-3-19
C8847		199-D5-123	199-H4-10		199-N-280		399-3-20
C8848		199-D5-125	199-H4-13		199-N-281		399-3-22
C8851		199-D5-126	199-H4-45		199-N-297		399-3-22
C8852		199-D5-127	199-H4-5		199-N-298		399-3-34
C8855		199-D5-127	199-H4-64		199-N-3		399-3-38
C8856		199-D5-130	199-H4-69		199-N-315		399-4-15
C8859		199-D5-131	199-H4-70		199-N-316		699-S6-E4A
C8860		199-D5-133	199-H4-75		199-N-32		699-S6-E4L
C8861		199-D5-133	199-H4-77		199-N-332		
		199-D5-145	199-H4-8		199-N-34		
		199-D5-145	199-H4-84		199-N-346		
		199-D5-146	699-100-43B		199-N-354		
		199-D5-146	699-99-44		199-N-355		
		199-D5-147			199-N-356		
		199-D5-148			199-N-357		
		199-D5-148			199-N-358		
		199-D5-15			199-N-359		
		199-D5-34			199-N-360		
		199-D5-34			199-N-361		
		199-D5-38			199-N-362		
		199-D5-39			199-N-363		
		199-D5-39			199-N-364		
		199-D5-40			199-N-365		
		199-D5-43			199-N-366		
		199-D5-97			199-N-367		

100/300 Areas Unit Managers Meeting
April 10, 2014

100-BC-5	100-FR-3	100-HR-3-D	100-HR-3-H	100-KR-4	100-NR-2	1100-EM-1	300-FF-5
		199-D5-97			199-N-41		
		199-D7-3			199-N-46		
		199-D7-6			199-N-57		
		199-D8-5			199-N-67		
		199-D8-68			199-N-71		
		199-D8-69			199-N-72		
		199-D8-70			199-N-73		
		199-D8-73			199-N-74		
		199-D8-88			199-N-75		
		199-D8-95			199-N-76		
		199-D8-96			199-N-77		
		199-D8-98			199-N-81		
		199-H1-5			199-N-96A		
		199-H4-80			199-N-99A		
		199-H4-81			APT5		
		199-H4-82			C6132		
					C6324		
					C7881		
					C7934		
					C7935		
					C7936		
					N116mArray-0A		
					N116mArray-10A		
					N116mArray-11A		
					N116mArray-15A		
					N116mArray-2A		
					N116mArray-3A		
					N116mArray-4A		
					N116mArray-6A		
					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		

Table 2 - Sample Trips Outstanding at the end of March 2014

GWIA	SAMP_SITE_TYPE	SITE_NAME	SCHEDULE_DATE	Sample Status Comment
100-HR-3-D	WELL	199-D4-93	1/1/2014	Maintenance required
	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-D5-153	3/1/2014	Quarterly
	WELL	199-D5-154	3/1/2014	Quarterly
	WELL	199-D5-16	3/1/2014	Quarterly
	WELL	199-D5-34	1/1/2014	Not Attempted
	WELL	199-D5-34	1/27/2014	Not Attempted
	WELL	199-D5-39	3/1/2014	Sampled 3/20/2014
	WELL	199-D8-54A	12/1/2013	Biannual
	WELL	199-D8-72	3/1/2014	Maintenance required
100-HR-3-H	WELL	199-H1-3	12/1/2013	Quarterly
	WELL	199-H4-63	3/1/2014	Quarterly
	WELL	199-H4-76	3/1/2014	Quarterly
100-NR-2	WELL	199-K-149	11/1/2013	Maintenance required
	WELL	199-N-333	3/1/2014	Quarterly
	WELL	199-N-41	9/1/2013	Road Maintenance
	WELL	199-N-92A	3/1/2014	Quarterly
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	399-4-10	12/1/2013	Access Restricted
	WELL	699-S6-E4B	12/1/2013	Maintenance required
	WELL	699-S6-E4L	3/1/2014	Quarterly

Table 3 - Groundwater Sampling Locations in the River Corridor Areas Scheduled to be sampled in April 2014

100-BC-5	100-FR-3	100-HR-3-D	100-HR-3-H	100-KR-4	100-NR-2	1100-EM-1	300-FF-5
199-B4-14	199-F5-48	199-D2-11	199-H4-6	199-K-117A	199-K-150		699-12-2C
199-B4-16	199-F5-55	199-D2-11	199-H4-84	199-K-126	199-K-151		699-13-0A
199-B4-18	199-F5-56	199-D4-19	699-100-43B	199-K-130	C7934		699-13-1E
199-B4-7		199-D4-26	699-101-45	199-K-152	C7935		699-13-2D
199-B5-10		199-D4-86		199-K-165	C7936		699-13-3A
199-B5-11		199-D4-92		199-K-166	C7937		
199-B5-12		199-D4-93		199-K-173	C7938		
199-B5-13		199-D4-95		199-K-18	C7939		
199-B5-14		199-D4-96		199-K-20			
199-B5-6		199-D4-97		199-K-21			
199-B5-9		199-D4-98		199-K-34			
199-B8-9		199-D4-99		C7641			
C8840		199-D5-101		C7642			
C8841		199-D5-103		C7643			
C8842		199-D5-103					
C8843		199-D5-103					
C8844		199-D5-104					
C8845		199-D5-104					
C8847		199-D5-104					
C8848		199-D5-106					
C8849		199-D5-127					
C8851		199-D5-127					
C8852		199-D5-127					
C8853		199-D5-13					
C8855		199-D5-130					
C8856		199-D5-131					
C8859		199-D5-133					
C8860		199-D5-133					
C8861		199-D5-14					
		199-D5-145					
		199-D5-145					
		199-D5-145					
		199-D5-146					
		199-D5-146					
		199-D5-146					
		199-D5-148					
		199-D5-148					
		199-D5-20					
		199-D5-32					
		199-D5-33					
		199-D5-34					

100/300 Areas Unit Managers Meeting
April 10, 2014

100-BC-5	100-FR-3	100-HR-3-D	100-HR-3-H	100-KR-4	100-NR-2	1100-EM-1	300-FF-5
		199-D5-34					
		199-D5-34					
		199-D5-36					
		199-D5-37					
		199-D5-39					
		199-D5-39					
		199-D5-39					
		199-D5-97					
		199-D5-97					
		199-D5-97					
		199-D7-3					
		199-D7-6					
		199-D8-101					
		199-D8-4					
		199-D8-6					
		199-D8-89					
		199-D8-90					
		199-D8-91					
		199-D8-95					
		199-D8-96					
		199-D8-97					
		199-D8-98					

Note- Information presented last month on this table that appeared to be duplicated was not. It was accurate. Some wells required multiple trips for completing all sampling.

Attachment 2

April 10, 2014 Unit Manager's Meeting
Field Remediation Status

100-B/C

- Continue remediation design for 100-B-35

100-D

- Continued remediation and stockpiling activities at 100-D-85:2 and 100-D-86:1
- Initiated and completed excavation at 100-D-106 and 100-D-83:3
- Continued load-out to ERDF
- Continued LDR chromium shipments to ERDF

100-H

- Completed the majority of excavation activities at 100-H. 100-H sites remaining for excavation include 100-H-59, 100-H-51:1 and 100-H-49:1
- Continued load-out to ERDF

100-K

- Completed removal of exit items and scraped CTA gravel to support new road to well near N barrow pit

100-N

- Completed excavation activities at 100-N
- Continued system operations for in-situ bioremediation system for UPR-100-N-17, deep vadose zone remediation; addressing regulatory agency comments on draft Operations & Maintenance Manual for system operation
- Continued preparation of closure documents and conducting verification sampling
- Continued demobilization of subcontractor, equipment and materials

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

- Completed removal of all available Miscellaneous Restoration and Exit Items
- Continued preparation for subcontractor mobilization for 600-349 UXO work
- Initiated and completed remediation of 600-331

(1)

Attachment 3

100K Area Unit Managers Meeting
April 10, 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

- Activities in support of ECRTS process component procurement continue.
- Completed the delivery of 105-K West Basin Annex mezzanine structural steel and commenced installation.
- The Integrated Process Optimization Demonstration continues at MASF. Process improvements identified during TRL-6 testing and earlier IPOD demonstrations are now being confirmed. Multiplexer control panel installation is 75% complete.

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, characterization, and IWTS garnet filter media removal are in-progress to facilitate future deactivation. The KW Basin below-water debris and demolition rubble Sample Analysis Plan is expected to be provided to EPA for review and approval in early September 2014.

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 at100K during March.

- 105KE and 105KW Roof Repairs. Repairs to the 105-KE roof will be made through use of a man lift to access the damaged area. A contract to install a land bridge and pad for the man lift was awarded on March 31, 2014. Current schedules call for completion of the repairs by the end of April. Repairs to the 105-KW roof will follow completion of the 105-KE roof. Asbestos renovation work and disposal of asbestos containing waste material will be done in accordance with the substantive requirements of the Asbestos NESHAP.

- 100K Bore Holes. RL has initiated a contract change order with CHPRC to define the elements necessary to complete planning and field work required for drilling and sampling of characterization boreholes near the 105-KE reactor. Revisions to the sampling instruction are being discussed and CHPRC will begin the estimate definitization soon.

- Disposition of found fuel at KW Basins. A proposed plan to disposition six fuel pieces discovered during floor and pit sludge level measurement in the K West Basin has been discussed with EPA. The proposal includes managing the fuel pieces in K West Basin until transported to PNNL for STP Phase 2 technology development and testing of size reduction and oxidation methodologies. RL is consulting with DOE-HQ to determine if there are any legal or regulatory issues with the plan.

(E)

Attachment 4

175120

^WCH Document Control

From: Saueressig, Daniel G
Sent: Wednesday, March 19, 2014 3:53 PM
To: ^WCH Document Control
Subject: FW: 100-K CTA

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, March 14, 2014 9:55 AM
To: Saueressig, Daniel G
Cc: Glossbrenner, Ellwood T; Fancher, Jonathan D (Jon)
Subject: RE: 100-K CTA

I concur with the path forward.

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:dgsauere@wch-rcc.com]
Sent: Tuesday, March 04, 2014 7:41 AM
To: Guzzetti, Christopher
Cc: Glossbrenner, Ellwood T; Fancher, Jonathan D (Jon)
Subject: 100-K CTA

Chris, WCH is almost finished with removal of the old 100-K trailer complex/CTA demobilization; only removal of the CTA remains. We plan to visually inspect the CTA for staining and then survey the area with a Global Positioning Environmental Radiological Surveyor (GPERS) survey prior to ripping the upper six inches of gravel and then piling the material into wind rows for removal and relocation to support a new access road being created for a well near the southern portion of the 100-N borrow pit.

Let me know if you have any concerns with our plans for the gravel from the CTA. We also plan to remove additional gravel from the trailer complex/parking lot but since this area wasn't used to store waste, no GPERS survey is planned, just a walkdown ensuring there is no staining observed.

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

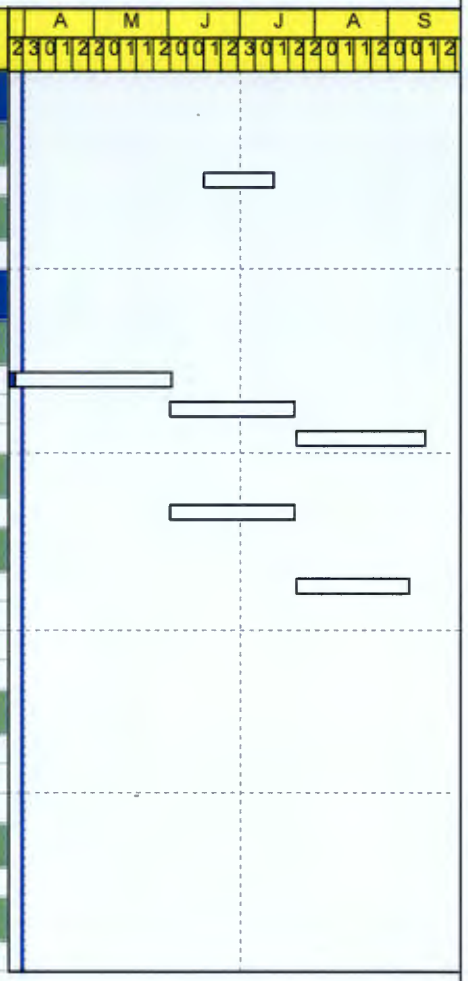
Dan Saueressig
FR Environmental Project Lead
Washington Closure Hanford
521-5326

3/19/2014

Attachment 5

UMM B/C SCHEDULE

Activity ID	Activity Name	% Cmpl	RD	Start	Finish
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
100-B-35 - 152-B1 Secondary Substation					
Excavation					
BB524A70	100-B-35 Design	5%	36	24-Mar-14 A	02-Jun-14
BB524A10	100-B-35 Excavation	0%	30	02-Jun-14*	23-Jul-14
BB524A260	100-B-35 - FY14 ETC	0%	30	24-Jul-14*	16-Sep-14
Loadout					
BB524B10	100-B-35 Loadout	0%	30	02-Jun-14	23-Jul-14
Closeout Sampling & Docs					
BB524D61	Prepare Work Instructions for 100-B-35	0%	26	24-Jul-14	09-Sep-14
BB524D71	RL/Reg Rview Draft A WI for 100-B-35	0%	0	02-Oct-14	02-Oct-14
BB524D81	RL/Reg Sign Rev. 0 WI for 100-B-35	0%	0	02-Oct-14	02-Oct-14
BB524D91	Closure Sampling & Analysis for 100-B-35	0%	28	02-Oct-14	20-Nov-14
Final Project Closeout					
BB524D101	Prepare Closure Document 100-B-35	0%	72	04-Dec-14	16-Apr-15
BB524D121	RL/Reg Review Draft A Closure Doc for 100-B-35	0%	0	09-Feb-15	09-Feb-15
BB524D131	RL/Reg Sign Rev. 0 Closure Doc for 100-B-35	0%	0	16-Apr-15	16-Apr-15
Backfill					
BB524C10	100-B-35 Backfill	0%	5	09-Feb-15	18-Feb-15
Revegetation					
BB524E10	100-B-35 Revegetation	0%	5	18-Feb-15	26-Feb-15



Current Bar Labels % Complete

Attachment 6

100 Area D4/ISS Status
April 10, 2014

100-N

100-N Miscellaneous Items – Removal and disposition of miscellaneous materials and equipment from around the site continues. Excavation and load-out of soil from the equipment decontamination pad completed April 4, 2014. D4 equipment decontamination pad GPERS and demobilization from 100-N continues.

181-N River Pump House Anchor Blocks – Completed Anchor Block wire cutting, load-out backfill/re-contouring, and demobilization.

100-B

151-B Electrical Switchyard – Completed backfill, re-contouring and demobilization activities.

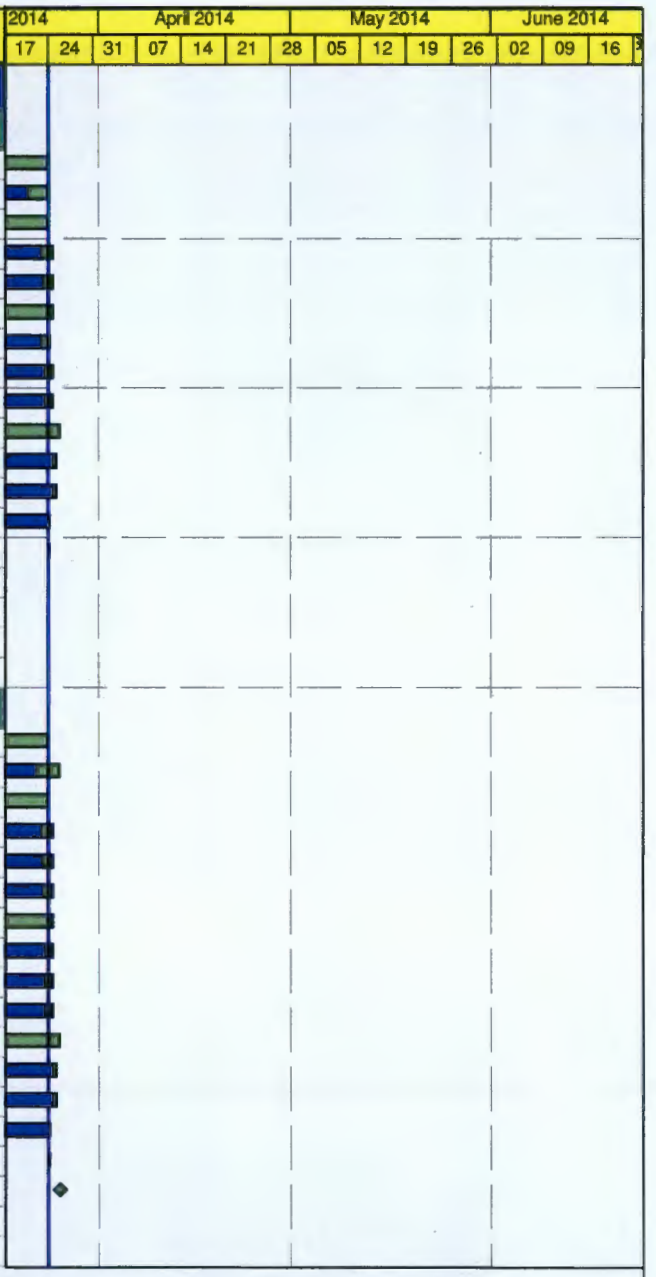
183-B Clearwells – Continued Clearwell demolition, load-out, and 'stock piling' of backfill.

MO-474 – Continued planning activities for deactivation, hazardous material removal, and demolition.

(a)

Attachment 7

Activity ID	Activity Name	% Cmpl	RD	Start	Finish
FY13 CPP 100-N AREA CURRENT					
Excavation					
NB5B8A	Excavation - 100-N-84:6 (12,721 BCM)	27%	1	10-Apr-13 A	24-Mar-14
NB5B4D08	Excavation over IPB - 100-N-84:2 (20,819 BCM)	99%	0	17-Apr-13 A	24-Mar-14
NB5B7A	Excavation - 100-N-84:5 (39,722 BCM)	34%	2	03-Jul-13 A	25-Mar-14
NB596A	Excavation - 120-N-4 (646.86 BCM)	99%	1	08-Oct-13 A	24-Mar-14
NB5B1A	Excavation - 100-N-81 (690 BCM)	99%	1	22-Oct-13 A	24-Mar-14
NB5A3A	Excavation - 100-N-101 (132.36 BCM)	67%	1	05-Nov-13 A	24-Mar-14
NB590A	Excavation - 100-N-91 (4.05 BCM)	99%	0	12-Nov-13 A	24-Mar-14
NB5093A	Excavation - 100-N-97 (10.09 BCM)	99%	1	12-Nov-13 A	24-Mar-14
NB595A	Excavation - 100-N-100 (89.58 BCM)	99%	1	13-Nov-13 A	24-Mar-14
NB5B6A	Excavation - 100-N-84:4 (8,348 BCM)	49%	2	02-Dec-13 A	25-Mar-14
NB591A	Excavation - 100-N-94 (51.34 BCM)	99%	1	31-Jan-14 A	25-Mar-14
NB594A	Excavation - 100-N-99 (40.33 BCM)	99%	1	31-Jan-14 A	25-Mar-14
NB5C7A	Excavation - 100-N-104 (49 BCM)	99%	0	12-Mar-14 A	24-Mar-14
NB583A	Excavation - 100-N-82	0%	2	24-Mar-14	25-Mar-14
NB5C3A	Excavation - 100-N-96 (2600 BCM)	0%	6	01-Oct-14*	09-Oct-14
NB5B2A	Excavation - 100-N-83 (20,659 BCM)	0%	30	13-Oct-14	04-Dec-14
NB5B6A60	Design - 100-N-107 (Final ROD)	0%	55	01-Oct-15*	13-Jan-16
NB5B6A10	Excavation - 100-N-107 (Final ROD)	0%	16	09-Jun-16	07-Jul-16
Loadout					
NB5B8B	Loadout - 100-N-84:6 (27,987 UST)	27%	1	10-Apr-13 A	24-Mar-14
NB5B4D09	Loadout over IPB - 100-N-84:2 (45,800 UST)	99%	2	17-Apr-13 A	25-Mar-14
NB5B7B	Loadout - 100-N-84:5 (87,389 UST)	34%	2	11-Jul-13 A	25-Mar-14
NB596B	Loadout - 120-N-4 (1,379.16 UST)	99%	1	08-Oct-13 A	24-Mar-14
NB5B1B	Loadout - 100-N-81 (1,518.0 UST)	99%	1	22-Oct-13 A	24-Mar-14
NB584D10	Loadout- 100-N-54 (500 UST)	99%	1	04-Nov-13 A	24-Mar-14
NB5A3B	Loadout - 100-N-101 (220.0 UST)	67%	1	05-Nov-13 A	24-Mar-14
NB590B	Loadout - 100-N-91 (0.71 UST)	99%	1	12-Nov-13 A	24-Mar-14
NB5093B	Loadout - 100-N-97 (5.94 UST)	99%	1	12-Nov-13 A	24-Mar-14
NB595B	Loadout - 100-N-100 (49.5 UST)	99%	1	13-Nov-13 A	24-Mar-14
NB5B6B	Loadout - 100-N-84:4 (18,366 UST)	49%	2	02-Dec-13 A	25-Mar-14
NB591B	Loadout - 100-N-94 (49.5 UST)	99%	1	31-Jan-14 A	25-Mar-14
NB594B	Loadout - 100-N-99 (42.1 UST)	99%	1	31-Jan-14 A	25-Mar-14
NB5C7B	Loadout - 100-N-104 (108 UST)	99%	0	12-Mar-14 A	24-Mar-14
NB583B	Loadout - 100-N-82	0%	2	24-Mar-14	25-Mar-14
PROJMS1	100-N Remediation Complete (Excluding Cultural Sites)	0%	0		25-Mar-14
NB5C3B	Loadout - 100-N-96 (2,943 UST)	0%	6	01-Oct-14	09-Oct-14
NB5B2B	Loadout - 100-N-83 (45,451 UST)	0%	30	13-Oct-14	04-Dec-14



Actual Work ◆ Milestone ◆ Actual Milestone
Remaining Work % Complete

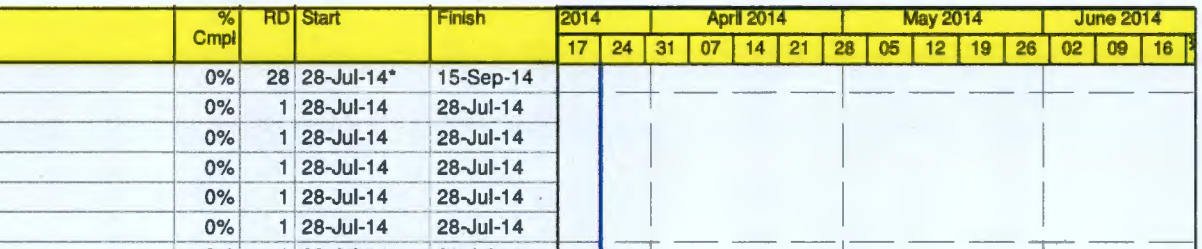
Data Date: 24-Mar-14

Activity ID	Activity Name	% Cmpl	RD	Start	Finish
NB5B6A20	Loadout - 100-N-107 (Final ROD)	0%	16	09-Jun-16	07-Jul-16
Backfill					
NB525C	Backfill - 100-N-61 (incl 100-N-64) 112,271 BCMs	7%	28	20-Jan-14 A	08-May-14
NB578C10	Backfill - 100-N-63	87%	10	27-Jan-14 A	08-Apr-14
NB528C	Backfill - 116-N-2	99%	3	05-Feb-14 A	26-Mar-14
NB517C	Backfill - 100-N-36 (0 BCMs)	0%	1	02-Jun-14	02-Jun-14
NB537C	Backfill - 124-N-3 (0 BCMs)	0%	1	02-Jun-14	02-Jun-14
NB578C30	Backfill - 100-N-63 (39,518 BCMs)	0%	10	02-Jun-14*	17-Jun-14
NB578C20	Backfill - 100-N-63 AUW	0%	10	02-Jun-14	17-Jun-14
NB573C	Backfill - UPR-100-N-5 (0 BCMs)	0%	1	18-Jun-14	18-Jun-14
NB528C10	Backfill - 116-N-2 (12,010 BCMs)	0%	3	18-Jun-14	23-Jun-14
NB560C	Backfill - UPR-100-N-25 (0 BCMs)	0%	1	18-Jun-14	18-Jun-14
NB570C	Backfill - UPR-100-N-4 (63 BCMs)	0%	1	24-Jun-14	24-Jun-14
NB539C	Backfill - 124-N-9 (0 BCMs)	0%	1	24-Jun-14	24-Jun-14
NB565C	Backfill - UPR-100-N-31 (5,872 BCMs)	0%	1	24-Jun-14	24-Jun-14
NB576C	Backfill - UPR-100-N-8 (28 BCMs)	0%	1	24-Jun-14	24-Jun-14
NB535C	Backfill - 124-N-10 (9,978 BCMs)	0%	2	25-Jun-14	26-Jun-14
NB541C	Backfill - 130-N-1 (10,000 BCMs)	0%	3	30-Jun-14	02-Jul-14
NB568C10	Backfill - UPR-100-N-36 AUW	0%	2	07-Jul-14	08-Jul-14
NB568C	Backfill - UPR-100-N-36 (8,153 BCMs)	0%	2	07-Jul-14	08-Jul-14
NB529C	Backfill - 116-N-4 (5,951 BCMs)	0%	2	09-Jul-14	10-Jul-14
NB562C	Backfill - UPR-100-N-29 (0 BCMs)	0%	1	14-Jul-14	14-Jul-14
NB566C	Backfill - UPR-100-N-32 (0 BCMs)	0%	1	14-Jul-14	14-Jul-14
NB564C	Backfill - UPR-100-N-30 (0 BCMs)	0%	1	14-Jul-14	14-Jul-14
NB545C	Backfill - UPR-100-N-1 (0 BCMs)	0%	1	14-Jul-14	14-Jul-14
NB521C	Backfill - 100-N-57 (4,296 BCMs)	0%	1	14-Jul-14	14-Jul-14
NB554C	Backfill - UPR-100-N-2 (0 BCMs)	0%	1	14-Jul-14	14-Jul-14
NB567C	Backfill - UPR-100-N-35 (170 BCMs)	0%	1	15-Jul-14	15-Jul-14
NB550C	Backfill - UPR-100-N-14 (182 BCMs)	0%	1	15-Jul-14	15-Jul-14
NB577C	Backfill - UPR-100-N-9 (0 BCMs)	0%	1	15-Jul-14	15-Jul-14
NB531C	Backfill - 118-N-1 (11,549 BCMs)	0%	3	16-Jul-14	21-Jul-14
NB587C	Backfill - 100-N-79 (672.58 BCM)	0%	1	22-Jul-14	22-Jul-14
NB5C1C	Backfill - 100-N-84:8 (0 BCM)	0%	1	22-Jul-14	22-Jul-14
NB542C	Backfill - 1908-N (0 BCMs)	0%	1	22-Jul-14	22-Jul-14
NB536C	Backfill - 124-N-2 (1,554 BCMs)	0%	1	22-Jul-14	22-Jul-14
NB592C	Backfill - 100-N-62 (3,563 BCM)	0%	1	23-Jul-14	23-Jul-14
NB508C	Backfill - 100-N-24 (0 BCMs)	0%	1	24-Jul-14	24-Jul-14
NB593C	Backfill - 100-N-28 (2,504 BCM)	0%	1	24-Jul-14	24-Jul-14
NB548C	Backfill - UPR-100-N-12 (0 BCMs)	0%	1	28-Jul-14	28-Jul-14
NB525C21	Backfill - 100-N-61 (incl 100-N-64) 112,271 BCMs	0%	28	28-Jul-14	15-Sep-14

Actual Work
Remaining Work
Milestone
Actual Milestone
% Complete

Data Date: 24-Mar-14

Activity ID	Activity Name	% Cmpl	RD	Start	Finish
NB525C11	Backfill - 100-N-61 (incl 100-N-64) AUW	0%	28	28-Jul-14*	15-Sep-14
NB563C	Backfill - UPR-100-N-3 (0 BCMs)	0%	1	28-Jul-14	28-Jul-14
NB518C	Backfill - 100-N-37 (0 BCMs)	0%	1	28-Jul-14	28-Jul-14
NB512C	Backfill - 100-N-30 (0 BCMs)	0%	1	28-Jul-14	28-Jul-14
NB519C	Backfill - 100-N-38 (0 BCMs)	0%	1	28-Jul-14	28-Jul-14
NB569C	Backfill - UPR-100-N-39 (0 BCMs)	0%	1	28-Jul-14	28-Jul-14
NB546C	Backfill - UPR-100-N-10 (0 BCMs)	0%	1	28-Jul-14	28-Jul-14
NB513C	Backfill - 100-N-31 (0 BCMs)	0%	1	28-Jul-14	28-Jul-14
NB514C	Backfill - 100-N-32 (0 BCMs)	0%	1	28-Jul-14	28-Jul-14
NB575C	Backfill - UPR-100-N-7 (0 BCMs)	0%	1	28-Jul-14	28-Jul-14
NB511C	Backfill - 100-N-29 (0 BCMs)	0%	1	28-Jul-14	28-Jul-14
NB586C	Backfill - 100-N-68 (0 BCM)	0%	1	28-Jul-14	28-Jul-14
NB532C	Backfill - 120-N-3 (3,915 BCMs)	0%	1	16-Sep-14	16-Sep-14
NB510C	Backfill - 100-N-26 (276 BCMs)	0%	1	17-Sep-14	17-Sep-14
NB507C	Backfill - 100-N-23 (3,588 BCMs)	0%	1	17-Sep-14	17-Sep-14
R120N37	Backfill - 120-N-7 (145 BCMs)	0%	1	18-Sep-14	18-Sep-14
NB557C	Backfill - UPR-100-N-22 (0 BCMs)	0%	1	18-Sep-14	18-Sep-14
NB553C	Backfill - UPR-100-N-19 (4,577 BCMs)	0%	2	18-Sep-14	22-Sep-14
NB572C	Backfill - UPR-100-N-43 (0 BCMs)	0%	1	18-Sep-14	18-Sep-14
NB506C	Backfill - 100-N-22 (866 BCMs)	0%	1	18-Sep-14	18-Sep-14
NB558C	Backfill - UPR-100-N-23 (0 BCMs)	0%	1	18-Sep-14	18-Sep-14
NB534C	Backfill - 124-N-1 (597 BCMs)	0%	1	18-Sep-14	18-Sep-14
NB556C	Backfill - UPR-100-N-21 (0 BCMs)	0%	3	18-Sep-14	23-Sep-14
NB599C	Backfill - 100-N-86 (1030 BCM)	0%	1	22-Sep-14	22-Sep-14
NB5092C	Backfill - 100-N-95 (2,158.57 BCM)	0%	1	22-Sep-14	22-Sep-14
NB5B8C	Backfill - 100-N-84:6 (3,636 BCM)	0%	1	23-Sep-14	23-Sep-14
NB5C7C	Backfill - 100-N-104 (612 BCM)	0%	1	23-Sep-14	23-Sep-14
NB559C	Backfill - UPR-100-N-24	0%	1	24-Sep-14	24-Sep-14
NB552C	Backfill - UPR-100-N-18 (13,025 BCMs)	0%	8	24-Sep-14	07-Oct-14
NB555C	Backfill - UPR-100-N-20	0%	1	24-Sep-14	24-Sep-14
NB596C	Backfill - 120-N-4 (956 BCM)	0%	1	08-Oct-14	08-Oct-14
NB522C	Backfill - 100-N-59 (0 BCMs)	0%	1	08-Oct-14	08-Oct-14
NB509C	Backfill - 100-N-25 (333 BCMs)	0%	1	08-Oct-14	08-Oct-14
NB574C	Backfill - UPR-100-N-6 (0 BCMs)	0%	1	08-Oct-14	08-Oct-14
NB5B4C	Backfill - 100-N-84:2 (40,909 BCM)	0%	10	09-Oct-14	27-Oct-14
NB5B7C	Backfill - 100-N-84:5 (13,636 BCM)	0%	4	28-Oct-14	03-Nov-14
NB5B6C	Backfill - 100-N-84:4 (4,545 BCM)	0%	2	04-Nov-14	05-Nov-14
NB583C	Backfill - 100-N-82	0%	1	06-Nov-14	06-Nov-14
NB590C	Backfill - 100-N-91 (3.87 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
NB5A3C	Backfill - 100-N-101 (126.6 BCM)	0%	1	10-Nov-14	10-Nov-14

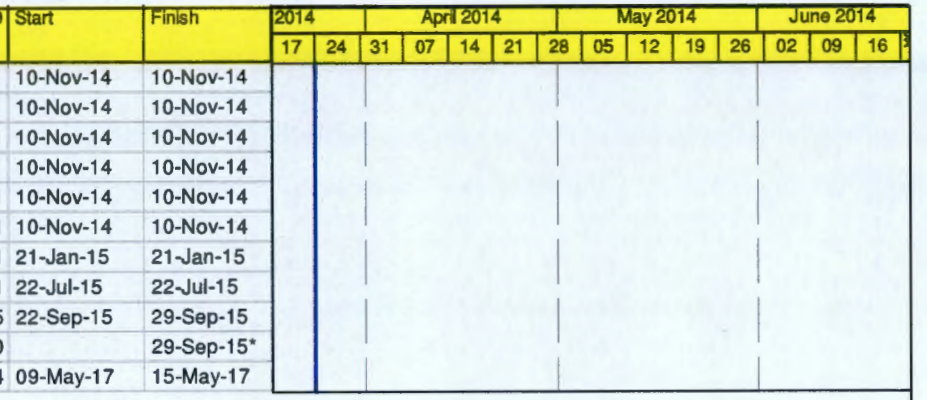


Actual Work ◆ Milestone ◆ Actual Milestone

Remaining Work % Complete

Data Date: 24-Mar-14

Activity ID	Activity Name	% Cmpl	RD	Start	Finish
NB5A4C	Backfill - 600-340 (1,909 BCM)	0%	1	10-Nov-14	10-Nov-14
NB595C	Backfill - 100-N-100 (85.69 BCM)	0%	1	10-Nov-14	10-Nov-14
NB597C	Backfill - 628-2 (709 BCM)	0%	1	10-Nov-14	10-Nov-14
NB591C	Backfill - 100-N-94 (49.11BCM)	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
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

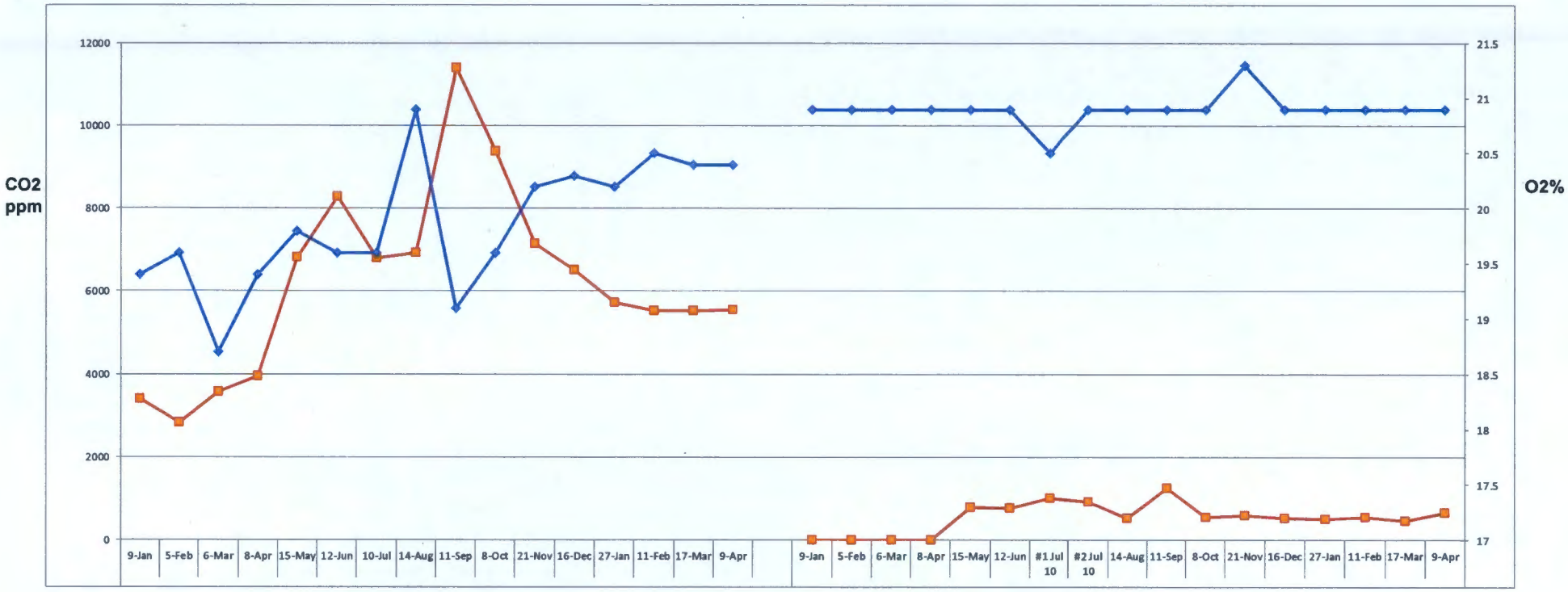


Actual Work ◆ Milestone ◆ Actual Milestone

Remaining Work % Complete

Data Date: 24-Mar-14

Attachment 8



BIOVENT WELL SAMPLE RESULTS

Well #	Date	O2%	CO2 ppm
199-N-171	9-Jan	19.4	3400
	5-Feb	19.6	2840
	6-Mar	18.7	3570
	8-Apr	19.4	3960
	15-May	19.8	6820
	12-Jun	19.6	8290
	10-Jul	19.6	6800
	14-Aug	20.9	6940
	11-Sep	19.1	11400
	8-Oct	19.6	9380
	21-Nov	20.2	7180
	16-Dec	20.3	6520
	27-Jan	20.2	5720
	11-Feb	20.5	5520
	17-Mar	20.4	5520
	9-Apr	20.4	5560

Well #	Date	O2%	CO2 ppm
199-N-169	9-Jan	20.9	0
	5-Feb	20.9	0
	6-Mar	20.9	0
	8-Apr	20.9	0
	15-May	20.9	800
	12-Jun	20.9	780
	#1 Jul 10	20.5	1020
	#2 Jul 10	20.9	920
	14-Aug	20.9	530
	11-Sep	20.9	1250
	8-Oct	20.9	550
	21-Nov	21.3	600
	16-Dec	20.9	530
	27-Jan	20.9	500
	11-Feb	20.9	550
	17-Mar	20.9	470
	9-Apr	20.9	660

O2% CO2 ppm

Attachment 9

FACILITY STATUS CHANGE FORM
(for DOE/RL-2010-34 Facilities)

Date Submitted:	Area:	Control #:
April 1, 2014	100-N	D4-100N-0059
Originator:	**Facility ID:**	
Clay McCurley	181N Cable Float Barriers	
Phone:	**Action Memorandum:**	
942-8928	General Hanford Site Decommissioning Activities	

This form documents agreement among the parties listed below on the status of the facility D&D operations and the disposition of underlying soil in accordance with the applicable regulatory decision documents.

Section 1: Facility Status

☒ All removal actions require by action memo complete.

☐ Removal actions required by actions memo partially complete, remaining operations deferred.

Description of Completed Activities and Current Conditions:

Decontamination and Decommissioning: No hazardous materials were present on rebar reinforced concrete cable float barriers prior to demolition. A review of past uses of the barriers indicated chemical and/or radiological contamination highly unlikely. Visual examination of the barriers identified no staining and pre-demolition radiological scoping surveys identified no contamination.

Demolition: The locations of the 181N cable float barriers in the 100-N Area were documented using global position system (GPS) prior to performing demolition activities. The barriers were then saw cut into smaller blocks in place from January to March 2014. The blocks were lifted, transported, and placed as fill material, approximately 20 feet below grade, in the former 182N High Lift Pumphouse. Water and pulverized concrete cuttings were captured throughout the process, contained in steel 55 gallon drums, solidified on site, and disposed of at the ERDF.

No post-demolition GPS surveys were performed since there were no changes in grade where the barriers had been. No post-demolition radiological surveys were performed since the barriers had no radiological contamination.

Description of Deferral (as applicable):

N/A

Section 2: Underlying Soil Status

☒ No waste site(s) present. No additional actions anticipated.

☐ Documented waste site(s) present. Cleanup and closeout to be addressed under Record of Decision.

☐ Potential waste site discovered during removal action. Waste site identification number <to be> assigned.

Cleanup and closeout to be addressed under Record of Decision.

Description of Current/As-Left Conditions:

Areas where the cable float barriers had been were covered with rip rap and contoured consistent with the surrounding terrain.

Identification of Documented Waste Site(s) or Nature of Potential Waste Site Discovery (as applicable):

N/A

Section 3: List of Attachments

1. Facility Information
2. Photographs of 181N Cable Float Barriers
3. No PTE for 181-N Cable Float Barriers

FACILITY STATUS CHANGE FORM
(for DOE/RL-2010-34 Facilities)

4. 181N Cable Float Barriers Pre-Demolition GPS Survey
5. Visual Inspection of 181N Cable Float Barrier Areas

Rudy Guercia — 4/1/2014

DOE-RL (Lead Agency) — Date

DISTRIBUTION:

DOE: Rudy Guercia, A3-04
Document Control, H4-11
Administrative Record, H6-08 (100-NR-1 OU)
SIS Coordinator: Benjamin Cowan, H4-22
D4 EPL: Clay McCurley, L4-45

Sample Design/Cleanup Verification:Theresa Howell, H4-23
FR Engineering: Rich Carlson, H4-22
FR EPL: Dan Saueressig, N3-30

Facility Information

Introduction

This document provides information regarding the history, characterization, and final status at the completion of deactivation, decontamination, decommissioning and demolition (D4) activities of the 181N Cable Float Barriers located in the 100-N Area as shown in Figure 1 (Attachment 2).

Facility Description

The 181N cable float barriers, shown in Figure 2 (Attachment 2), were solid concrete blocks measuring approximately 16-ft wide, 16-ft long, and 8-ft high, and reinforced with #5 rebar. A ¾-in aircraft steel cable, threaded through foam-filled fishing floats for flotation, was secured between the barriers. The cable served as a safety barrier for the 181N River Pumphouse.

Facility History

The 181-N cable float barriers, shown in Figure 2 (Attachment 2), were constructed in the early 1980s at grade on man-made points upstream and downstream of the inlet to the 181-N River Pumphouse. The floating cable, secured between the barriers, was maintained in service until December 2010 when it was removed to facilitate the demolition of the 100-N river structures (181-N, 181-NE and 1908-NE) and eventually loaded out to the ERDF.

The barriers remained untouched until late 2013 when they were visually inspected for stains/ anomalies and surveyed for radiological contamination. The results identified no chemical or radiological contamination. Attachment 3 documents these surveys and DOE's concurrence that the barriers had no potential to emit radionuclides during removal activities. A global positioning survey of the barriers was performed to document their locations. A copy of this survey is provided in Attachment 4.

Removal activities began in January 2014 when rip rap was cleared to provide a demolition crew access to set up and operate a diamond wire saw that cut them into smaller blocks that could be lifted. Figure 3 (Attachment 2) provides an aerial photograph of the south cable float barrier being cut. Six cuts through both barriers created 40 smaller blocks that were retrieved with an excavator and moved in mid-March to the basement of the 182N High Lift Pumphouse as shown in Figure 4 (Attachment 2). The water that had been used to facilitate the cutting process was collected in 55-gallon drums, solidified, and disposed of at the ERDF.

The areas where the barriers had been located were visually inspected for stains and anomalies. A copy of the inspection report is provided in Attachment 5. None were observed so the rip rap that had been removed to facilitate demolition was returned and spread to blend the appearance of the points consistent with the surrounding terrain as shown in Figure 4 (Attachment 2). Since the barriers had no radiological contamination, no post demolition surveys were performed using the global positioning environmental radiological surveyor (GPERS). No post-demolition global positioning system (GPS) surveys were performed since no below-grade excavations were required for removal.

Radiological Scoping and IH Baseline Surveys

The 181N Cable Float Barriers were never posted for radiological conditions. Based on research of past uses, radiological contamination was not expected and scoping surveys, documented in Attachment 3, identified no contamination.

For the IH baseline surveys of the barriers, an Industrial Hygiene Exposure Assessment (IHEA-181N-13-001, Rev. 3) addressed total dust (crystalline silica), heat stress and noise exposures. The barriers were beryllium free since they were not on the Hanford Site Beryllium List and there were no known pathways or sources for the contaminant.

Table 1 summarizes the radiological surveys performed. Pre and post demolition surveys using the Global Positioning Environmental Radiological Surveyor (GPERS) were not performed since the barriers were not radiologically contaminated. There were no contaminants of concern.

Table 1: Summary of Characterization Surveys at 151D

Type	Quantity	Method Detection Limits	Results
Radiological Scoping Surveys	2 surveys	Beta-gamma: 1,000 removable/ 5,000 fixed[a] Alpha: 20 removable/ 500 fixed[a]	No contamination identified (see Attachment 3).

[a] – dpm/100 cm^2

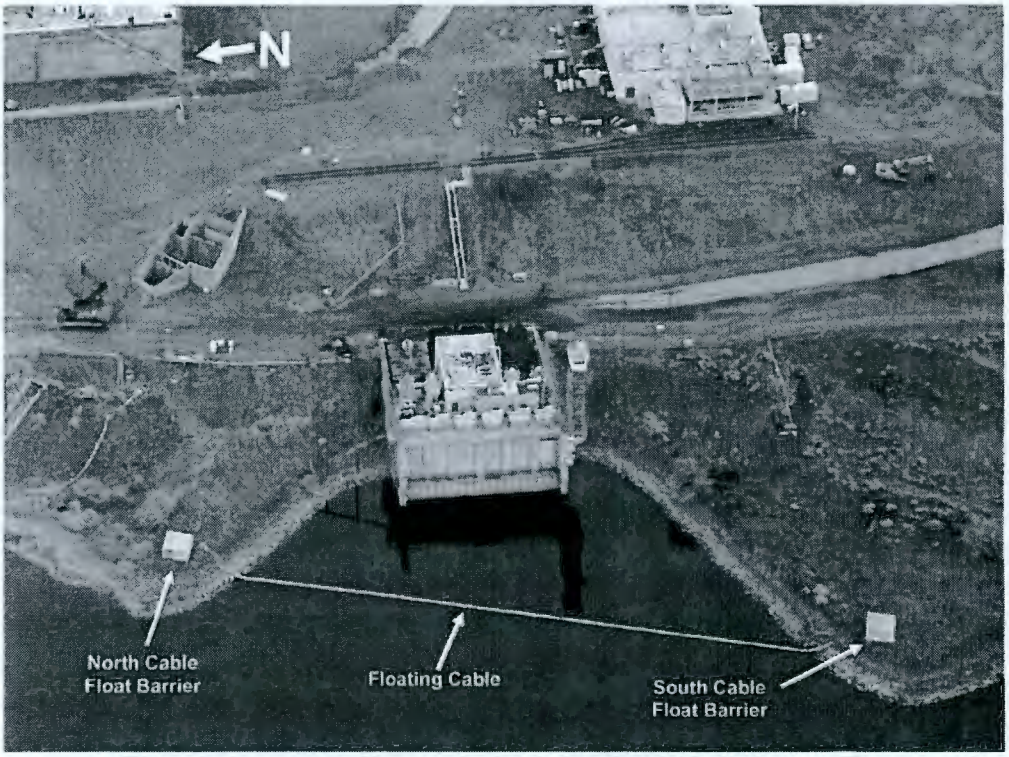
Attachment 2

Photographs of the 181N Cable Float Barriers (2 pages)

181N Cable Float Barriers

Figure 1. 100-N Area in March 2007

Figure 2. 181N Cable Float Barriers in October 2009



181N Cable Float Barriers

Figure 3. 181N Cable Float Barriers Being Wire Saw Cut in January 2014

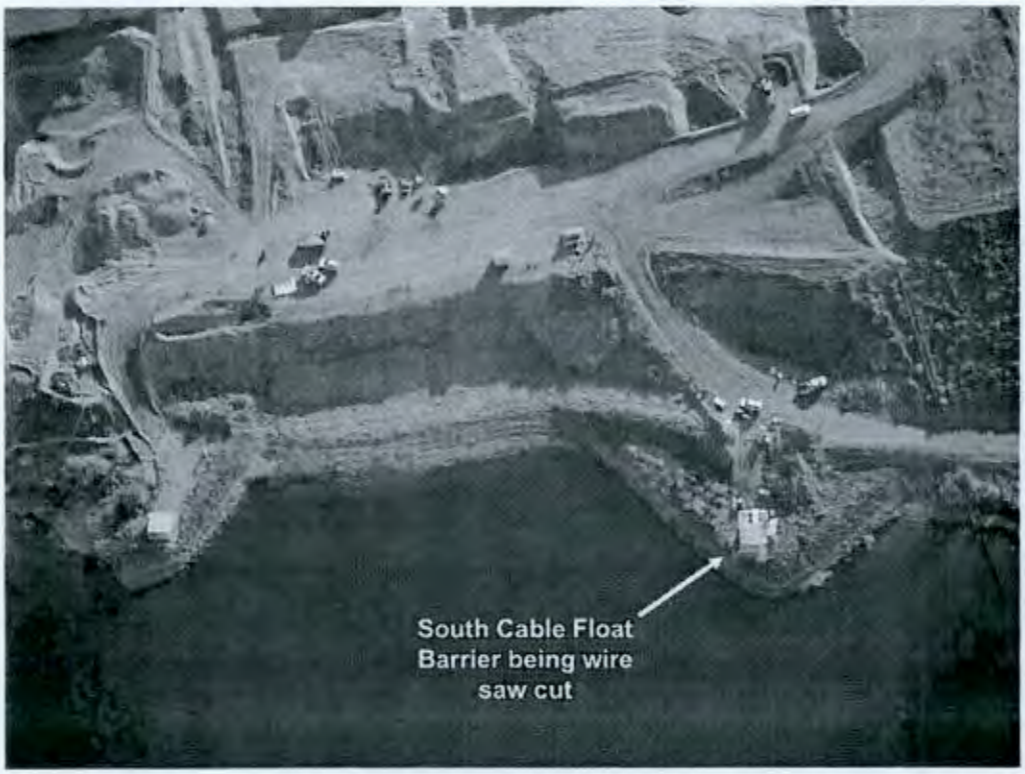
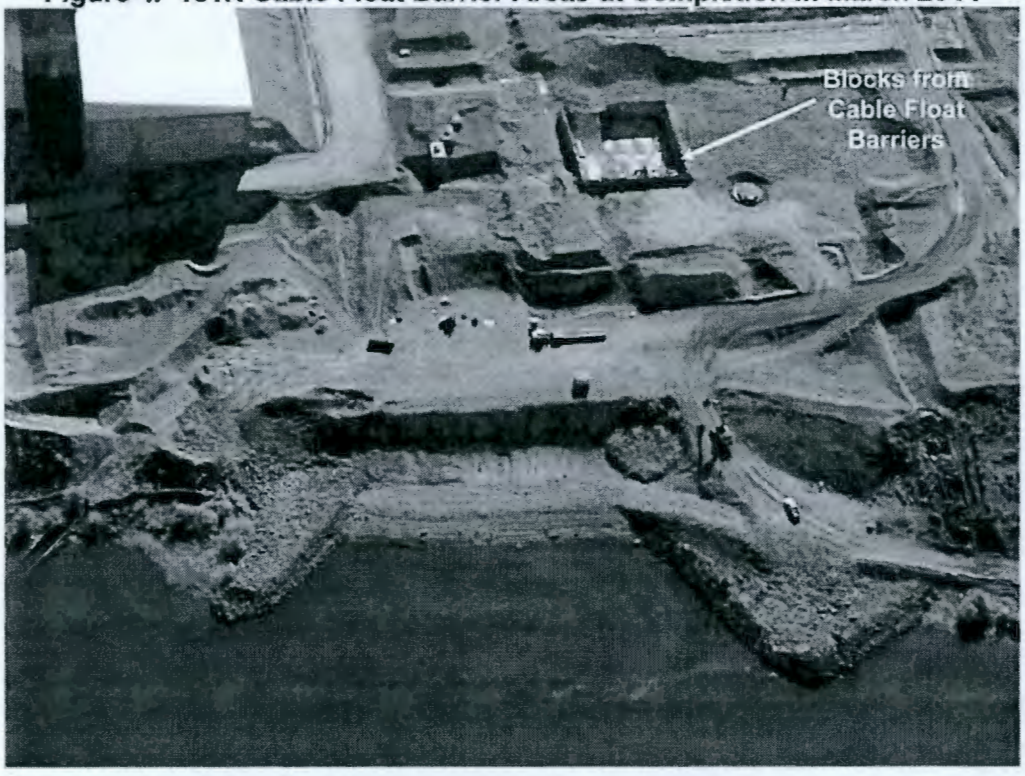


Figure 4. 181N Cable Float Barrier Areas at Completion in March 2014



Attachment 3

No PTE for the 181N Cable Float Barriers (8 pages)

173578

^WCH Document Control

From: Saueressig, Daniel G
Sent: Wednesday, October 30, 2013 10:34 AM
To: ^WCH Document Control
Cc: McCurley, Clay D
Subject: NO PTE FOR THE 181-N CABLE FLOAT BARRIERS

Attachments: SPDQ0746413102808090.pdf; No PTE 181N.doc

Please provide a chron number (and include both attachments). This emails documents a regulatory approval.

Thanks,

Dan Saueressig
FR Environmental Project Lead
Washington Closure Hanford
521-5328

From: Guercia, Rudolph F (Rudy) [mailto:rudolph.guercia@rl.doe.gov]
Sent: Monday, October 28, 2013 9:05 AM
To: Saueressig, Daniel G; Douglas, L M (Michael); Allen, Mark E
Cc: McCurley, Clay D
Subject: FW: NO PTE FOR THE 181-N CABLE FLOAT BARRIERS

SPDQ0746413102808090.pdf (1 MB...

After reviewing the data provided on the subject blocks below, as well as reviewing the rad con material that I have attached above, RL concurs with the analysis that the subject facility does not have a radiological inventory to justify calculation of a PTE. RL believes that these blocks have no potential to emit either from activities related demolition, or removal.

Please chron and place in the project files

R. F. Guercia, Field Engineering
U.S. Dept. of Energy, Richland Operations Office
PH: (509) 376-5494
Fax: (509) 373-0726

From: Saueressig, Daniel G [mailto:dgsauere@wch-rcc.com]
Sent: Wednesday, October 23, 2013 7:11 AM
To: Guercia, Rudolph F (Rudy)
Cc: Allen, Mark E; McCurley, Clay D
Subject: NO PTE FOR THE 181-N CABLE FLOAT BARRIERS

In accordance with Section 4.3.2 of the Removal Action Work Plan for River Corridor General Decommissioning Activities attached is a facility history that establishes current conditions based on completed scoping surveys of the 181-N Cable Float Barriers. Concurrence from DOE as lead agency is requested that an emissions estimate is not required prior to

performing removal actions on these structures.

Please call if you have any questions.

Thanks,

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

No PTE 1B1N.doc (2 MB)

No Potential to Emit – 181-N Cable Float Barriers

Facility Description:

The 181-N Cable Float Barriers are two 16 foot long by 16 foot wide by 8 foot high concrete blocks on the shoreline of the Columbia River that held a cable float barrier in front of the previously demolished 181-N River Pump House to prevent debris from interfering with intake operations.

Facility Location:

The 181-N Cable Float Barriers are located on the upstream and downstream Columbia River shoreline of the previously demolished 181-N River Pump House on the western edge of the 100-N Industrial Area.

Facility History:

The barriers were constructed in 1964 to connect a cable float in front of the 181-N River Pump House.

Radiological Contaminants of Concern:

WCH completed radiological surveys of the 181-N Cable Float Barriers on September 24, 2013. No contamination was identified.

Chemical Contaminants of Concern:

There are no chemical contaminants of concern. The 181-N Cable Float Barriers will be size reduced using a wire saw and placed into the basement of the 182-N foundation which has been approved to remain in place and be backfilled.

181-N Cable Float Barriers

East (Downriver) Barrier

West (Upriver) Barrier.

No-PTE for 181-N Cable Float Barriers

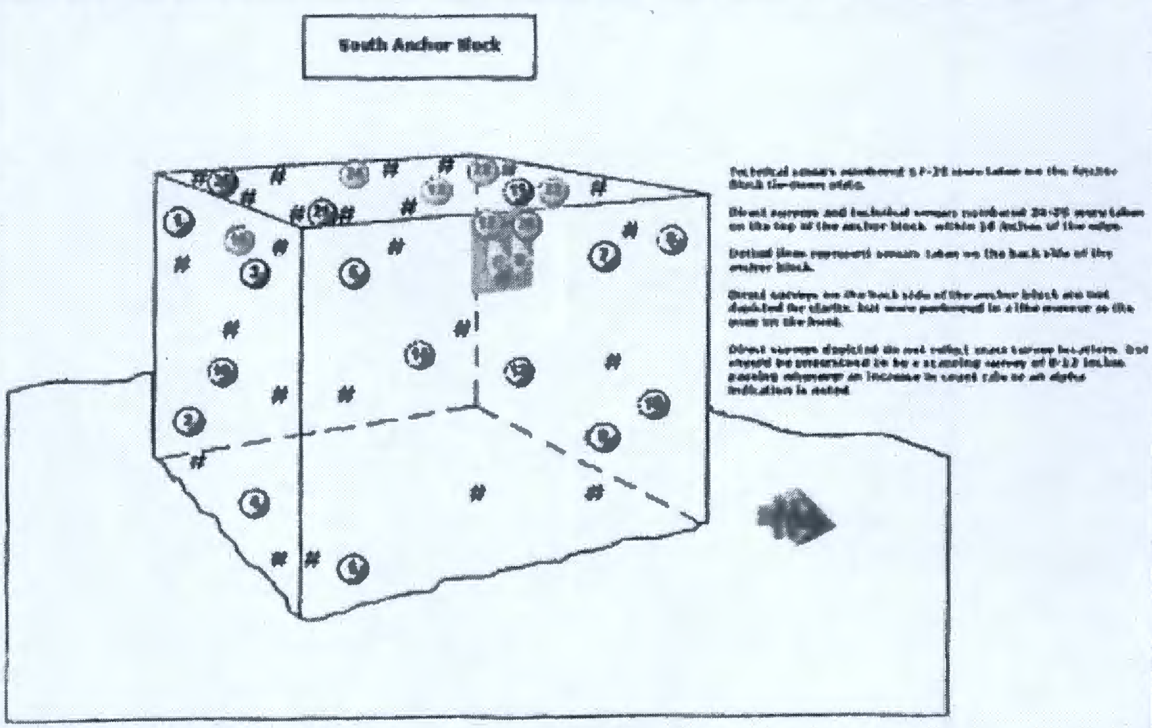
RADIOLOGICAL SURVEY RECORD

Page 1 of 2

Type of Survey			Survey #
☒ Work Progress ☐ Routine			RSR –100N-13-1058
RWP # / Rev. # NA	Date 09-24-2013	Time 1430	Location 100N

Description
South Anchor Block Characterization Survey at 100N

References: (e.g., GRTA, ASER, LASER, RSP, Work Package)
TA-10-SR-10/ Revision 01 4.14



CA Contamination Area	HCA High Contamination Area	RBA Radiological Buffer Area	ARA Airborne Radioactivity Area	SCA Soil Contamination Area	RMA Radioactive Materials Area	RA Radiation Area	HRA High Radiation Area	VHRA Very High Radiation Area	RCA Radiologically Controlled Area	SOP Step Off Pad
○ Technical Smear	# Direct	M Large Area Wipe	T Transferable	General Area Dose Rate <Underlined Value Reading (mR/hr)	All radiation readings are γ dose rates in units of mR/hr unless otherwise indicated	Contact / 30 cm	N Neutrons (mRem/hr)	A Alpha Beta	[AS] Air Sample Location	URMA Underground Radioactive Material Area

RCT Name/Signature/Date	RadCon Supervisor Name/Signature/Date
GL Eppling/ [signature] /09-24-2013	Mark Walder/ MWald/ 9-26-13

WCH-TM-R006a (09/18/2013)

RCT signature indicates portable instruments checked IAW RC-300-2.1

181N Cable Float Barriers

RADIOLOGICAL SURVEY RECORD

Survey #
RSR - 100N-13-1058

Instruments

Model	ID #	Efficiency %		Cal Due Date	Model	ID #	Efficiency %		Cal Due Date
		α	βγ				α	βγ	
Ludlum 2360	SCLL8-0032	NA	NA	11-14-2013	NA	NA	NA	NA	NA
DP6BD	DTNE2-0098	21	10	11-14-2013	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Contamination Measurement Information[1]

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of Item or Location	Removable (dpm/100 cm²)				Total (dpm/100 cm²)			
		α Background (cpm)	α Activity	β γ Background (cpm)	β γ Activity	α Background (cpm)	α Activity	β γ Background (cpm)	β γ Activity
ALL	Technical smears 1-25	3	< 20	462	< 1,000	NA	NA	NA	NA
ALL	Direct survey locations	NA	NA	NA	NA	3	< 500	462	< 5,000
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

[1] Unless stated otherwise in the "References" section exempted β-γ (i.e. C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pu-107, Eu-155) contamination levels are < 10 times the β-γ contamination levels shown above

Corrected Dose Rate Calculations

Show all work CF = 1 unless noted.

Location	Contact Readings		30 cm Readings	
	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
NA	NA	NA	NA	NA
NA	NA	NA	NA	NA
NA	NA	NA	NA	NA
NA	NA	NA	NA	NA

181N Cable Float Barriers

RADIOLOGICAL SURVEY RECORD

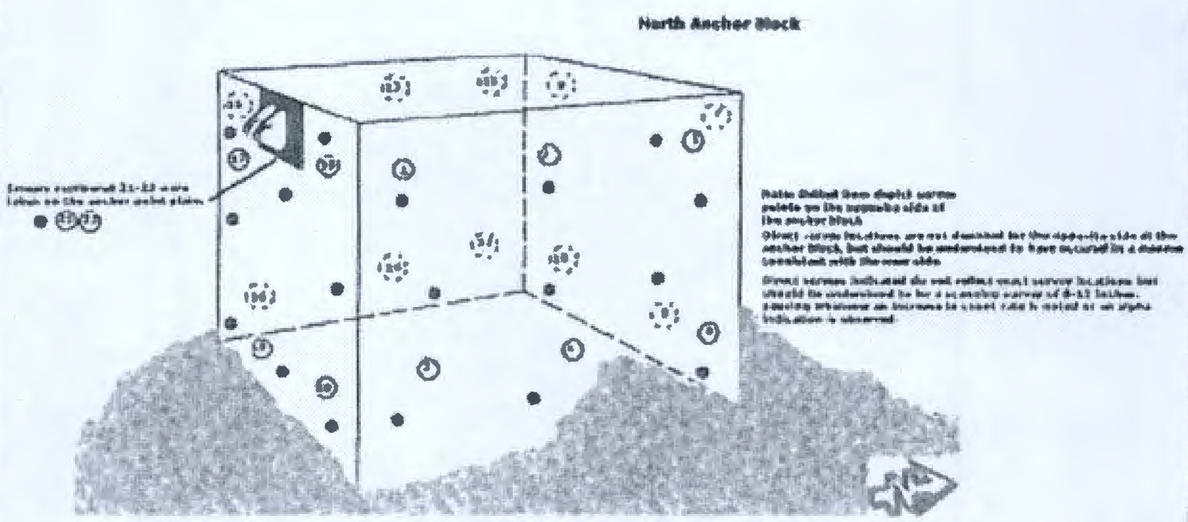
Page 1 of 2

Type of Survey ☒ Work Progress ☐ Routine			Survey # RSR –100N-13-1057
RWP # / Rev. # NA	Date 09-24-2013	Time 1100	Location 100N

Description
North Anchor Block Characterization Survey at 100N

References: (e.g., SRTA, ASER, LASER, RSP, Work Package)
TA-10-SR-10/ Revision 01

Survey of North Anchor Block at 100N



CA Contamination Area	HCA High Contamination Area	RBA Radiological Buffer Area	ARA Airborne Radioactivity Area	SCA Soil Contamination Area	RMA Radioactive Materials Area	RA Radiation Area	HRA High Radiation Area	VHRA Very High Radiation Area	RCA Radiologically Controlled Area	SOP Step Off Pad

◯ Technical Smear	# Direct	M Large Area Wipe	* Transferable	General Area Dose Rate *Uncorrected Meter Reading (mR/hr)	All radiation readings are γ dose rates in units of mR/hr unless otherwise indicated	Contact Reading	N Neutron (mR/hr)	A Alpha Rate (c/m)	ASI Air Sample Location	URMA Underground Radioactive Materials Area

RCT Name/Signature/Date	RadCon Supervisor Name/Signature/Date
Gl. Eppling/ [signature] /09-24-2013	Mark Walden/ [signature] 9-26-13

WCH TM-R008a (09/18/2013)

RCT signature indicates portable instruments checked IAW RC-300-2.1

181N Cable Float Barriers

RADIOLOGICAL SURVEY RECORD

Survey #
RSR -100N-13-1057

Instruments

Model	ID #	Efficiency %		Cal Due Date	Model	ID #	Efficiency %		Cal Due Date
		α	βγ				α	βγ	
Ludlum 2360	SCLL8-0032	NA	NA	11-14-2013	NA	NA	NA	NA	NA
DP6-BD	DTNE2-0098	21	10	11-14-2013	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Contamination Measurement Information[1]

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of Item or Location	Removable (dpm/100 cm²)				Total (dpm/100 cm²)			
		α bkgd (cpm)	α Activity	β-γ bkgd (cpm)	β-γ Activity	α bkgd (cpm)	α Activity	β-γ bkgd (cpm)	β-γ Activity
ALL	Technical smears 1-23	2	< 20	475	< 1,000	NA	NA	NA	NA
ALL	Direct survey locations	NA	NA	NA	NA	2	< 500	475	< 5,000
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

[1] Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

Corrected Dose Rate Calculations

Show all work. CF = 1 unless noted.

Location	Contact Readings		30 cm Readings	
	β (mrad/hr) (WO-WC) x CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
NA	NA	NA	NA	NA
NA	NA	NA	NA	NA
NA	NA	NA	NA	NA
NA	NA	NA	NA	NA

181N Cable Float Barriers

Attachment 4

181N Cable Float Barriers Pre-Demolition GPS Survey (3 pages)

Post Demo Survey Report for 181N River Block Anchors

Project : 100N_river_anchors

Job 1262

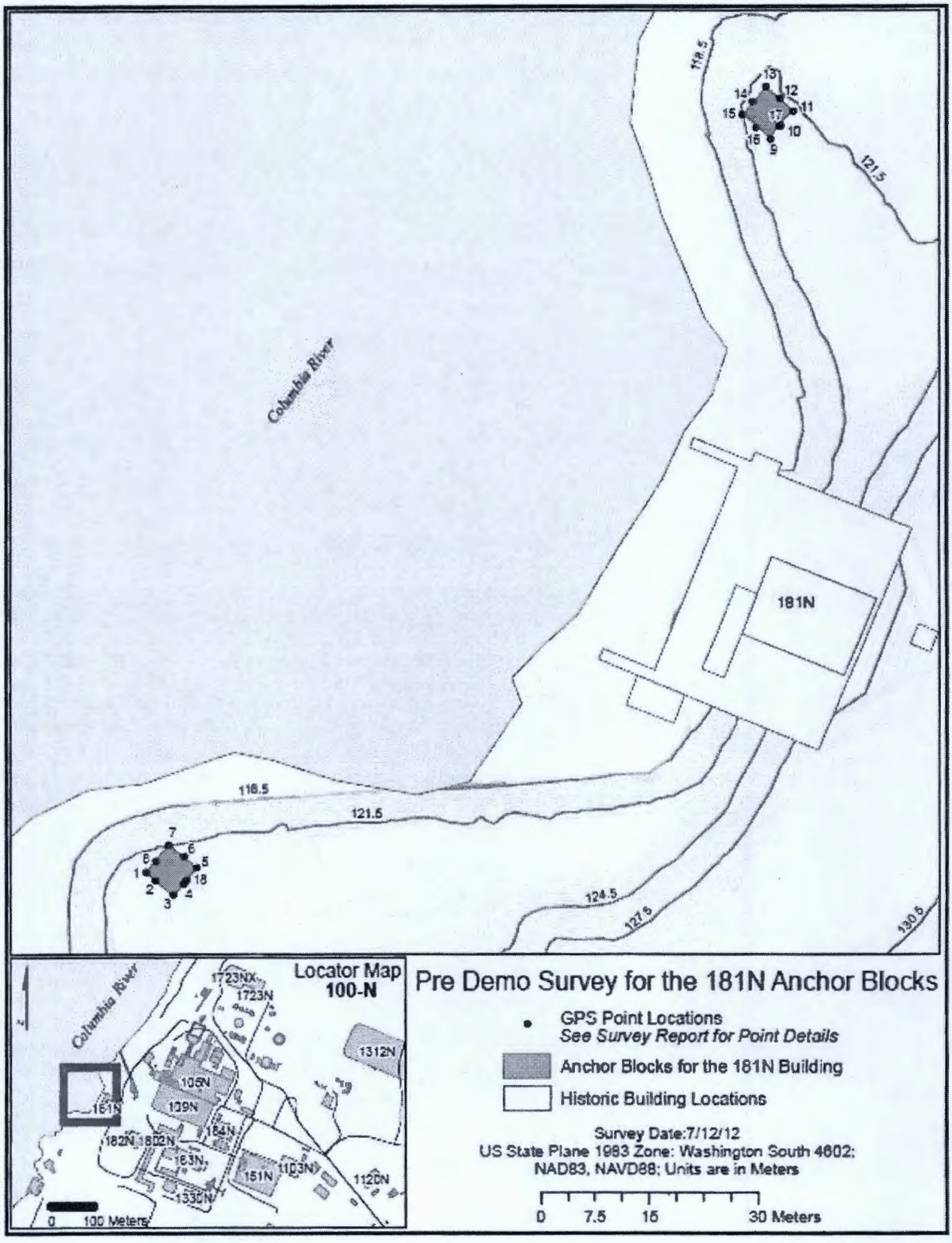
User name	maaye	**Date & Time**	2:21:06 PM 11/13/2013
Coordinate System	US State Plane 1983	**Zone**	Washington South 4602
Project Datum	(WGS 84)		
Vertical Datum	NAVD88	**Geoid Model**	Not selected
Coordinate Units	Meters		
Distance Units	Meters		
Height Units	Meters		

```
Survey Project Name:        100N River Anchors
Date:                       7/12/2012
Equipment:                  5800
Survey Purpose:             Map elevations around structures
Requested By:               Dan Bigby
Location:                   100N
Charge Code:
Field Surveyor:             Margo Aye
Survey Software Used:       Trimble Survey Controller, and  Geomatics
Office V.11
Survey Equipment Used:      5800
Control Monuments Used:     N-2
Survey Method:              RTK
Horizontal Precision:       .020m
Vertical Precision:         .050m
Fieldwork Start Date:       071212
Fieldwork Completion Date:  071212
Notes:                      Uneven basalt rocks surrounded anchors.
Points 8 and 16 are shot at the top of the structure.
```

Name	Northing	Easting	Elevation	Feature Code	Description
N-2	149644.179m	571811.158m	144.761m		
1	149430.245m	570920.960m	122.125m	base	
2	149429.186m	570922.195m	121.865m	base	
3	149427.189m	570924.746m	121.850m	base	
4	149429.253m	570926.503m	121.822m	base	
5	149431.019m	570927.918m	121.899m	base	
6	149432.592m	570926.177m	121.642m	base	
7	149434.193m	570924.063m	121.598m	base	
8	149431.912m	570922.246m	121.854m	base	
9	149531.530m	571007.222m	121.613m	base	
10	149533.199m	571008.610m	121.660m	base	
11	149535.289m	571010.309m	121.721m	base	
12	149536.966m	571008.516m	121.576m	base	
13	149538.595m	571006.527m	121.703m	base	

14	149536.855m	571004.686m	121.634m	base
15	149534.839m	571003.264m	121.565m	base
16	149533.022m	571005.219m	121.644m	base
17	149533.221m	571008.432m	123.543m	top-of-structure
18	149428.816m	570926.101m	123.619m	top-of-structure

Back to top



181N Cable Float Barriers

Attachment 5

Visual Inspection of 181N Cable Float Barrier Areas (3 pages)

175167

^WCH Document Control

From: McCurley, Clay D
Sent: Tuesday, March 25, 2014 3:50 PM
To: ^WCH Document Control
Subject: Visual Inspection of 181-N Cable Float Barrier Areas

Attachments: Visual Inspection Photos.doc

Folks. Please print the attachment (in color) and chron with this email per the subject. Let me know which number has been assigned.

Thanks. Clay

From: McCurley, Clay D
Sent: Tuesday, March 25, 2014 2:39 PM
To: Allen, Mark E
Cc: Douglas, L M (Michael)
Subject: Visual Inspection of 181-N Cable Float Barriers Area

Mark. In compliance with the *Removal Action Work Plan for River Corridor General Decommissioning Activities* (DOE/RL-2010-34, Rev. 2), Mike Douglas performed visual inspections of the areas from where the cable float barriers were removed on March 11, 2014. He transmitted his observations and photographs to me stating no stains or anomalies were observed, with the exception of the south anchor block where the soil was darkened from localized dust suppression water used during removal. I placed his photographs in the attached Word file. Contact me if you have any questions. Clay

Visual Inspection Photos.doc (...

Visual Inspection Photographs of 181-N Cable Float Barriers

March 11, 2014

Photo 1. Location of former southern anchor block (facing west).

Photo 2. Southern anchor block area after rip rap replaced (facing west).

Visual Inspection Photographs of 181-N Cable Float Barriers
March 11, 2014

Photo 3. Location of former northern anchor block (facing northwest).

Photo 4. Northern anchor block area after rip rap replaced (facing northwest).

Attachment 10

175121

^WCH Document Control

From: Saueressig, Daniel G
Sent: Wednesday, March 19, 2014 4:05 PM
To: ^WCH Document Control
Subject: FW: 100-N OFFSITE APPROVAL REQUEST

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

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

From: Einan, Dave [mailto:Einan.David@epa.gov]
Sent: Wednesday, March 19, 2014 4:04 PM
To: Saueressig, Daniel G
Subject: RE: 100-N OFFSITE APPROVAL REQUEST

I think you had told me, but I'm glad you reminded me. Thanks!

Dave Einan
509-376-3883

From: Saueressig, Daniel G [mailto:dgsauere@wch-rcc.com]
Sent: Wednesday, March 19, 2014 4:02 PM
To: Einan, Dave
Cc: Elliott, Wanda; Chance, Joanne C; Guzzetti, Christopher; Vallem, Robert J
Subject: RE: 100-N OFFSITE APPROVAL REQUEST

Dave, we still have one 55 gallon drum of bunker oil and 2 five liter containers (packaged in a 16 gallon drum) of unused, expired Opti Fluor that will also be sent to Burlington on April 1, 2014. Just wanted to make sure you were aware of the additional material being sent offsite based on your approval below.
Thanks and give me a call if you have any quesitons.
Dan Saueressig
FR Environmental Project Lead
Washington Closure Hanford
521-5326

From: Einan, Dave [mailto:Einan.David@epa.gov]
Sent: Tuesday, February 04, 2014 8:14 AM
To: Saueressig, Daniel G
Cc: Elliott, Wanda; Chance, Joanne C; Guzzetti, Christopher
Subject: RE: 100-N OFFSITE APPROVAL REQUEST

There was a message waiting for me this morning. Burlington is acceptable for shipments through April 4, 2014.

Dave Einan
509-376-3883

From: Saueressig, Daniel G [mailto:dgsauere@wch-rcc.com]
Sent: Monday, February 03, 2014 8:24 AM

To: Einan, Dave
Cc: Elliott, Wanda; Chance, Joanne C; Guzzetti, Christopher
Subject: RE: 100-N OFFSITE APPROVAL REQUEST

Hi Dave, have your heard back from Burlington on the request below? The project would like to ship the waste this Thursday February 6, 2014.

Thanks,

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

From: Saueressig, Daniel G
Sent: Thursday, January 09, 2014 11:58 AM
To: Einan, David R
Cc: Elliott, Wanda; Chance, Joanne C; Guzzetti, Christopher
Subject: RE: 100-N OFFSITE APPROVAL REQUEST

Dave, the bunker oil at 100-N didn't make it on the November shipment. In addition, there are 2 110-gallon drums of unleaded gasoline contaminated soil that also need to be sent offsite to Burlington for treatment and disposal.

Can you let me know if Burlington is approved for acceptance of this waste through February 2014? I believe they are being scheduled for shipment in early February.

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

Thanks,

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

From: Einan, Dave [mailto:Einan.David@epa.gov]
Sent: Friday, November 15, 2013 8:01 AM
To: Saueressig, Daniel G
Subject: RE: 100-N OFFSITE APPROVAL REQUEST

Dan—

Sorry for the delay, I had missed your original email. Burlington is OK for shipments until January 14, 2014.

Dave Einan
509-376-3883

From: Saueressig, Daniel G [mailto:dgsauere@wch-rcc.com]
Sent: Tuesday, November 12, 2013 1:51 PM
To: Einan, Dave
Subject: RE: 100-N OFFSITE APPROVAL REQUEST

Dave, I don't mean to bug you, but have you heard back from Burlington yet? We may still be able to get this waste on the 11/19 milk run shipment.

Thanks,

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

. Daniel G
ctober 31, 2013 2:29 PM
R
stopher; Elliott, Wanda; Chance, Joanne C
l OFFSITE APPROVAL REQUEST

Dave, I'd like to request your approval to send some waste from 100-N offsite for treatment and disposal.

We have 7 55-gallon drums of bunker oil (approximately 285 gallons) and one 3.5 gallon poly container that holds an "Eppley Standard Cell" that we'd like to ship offsite for treatment and disposal.

Plans are to ship the material to

Burlington Environmental, LLC
20245 77th Avenue South
Kent, WA 98032

RCRA ID No.: WAD991281767

We've tentatively scheduled a shipment date of November 19, 2013.

Let me know if you concur or if you have any questions.

Thanks,

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

Attachment 11

175488

^WCH Document Control

From: Thompson, Wendy S
Sent: Monday, April 07, 2014 1:51 PM
To: ^WCH Document Control
Cc: Saueressig, Daniel G; Biebrich, Ernest J; Jakubek, Joshua E; Howell, Theresa Q
Subject: FW: 100-N-84:2 and River Road Agreement
Attachments: River Road Pipelines_11050004-190.jpg; 3-19-14 soil stain.JPG; RR-5sketch.jpg; 100-N-84_2_xTAB_LEAN2_Thompson_040314.xls

Please place this in email and attachments in document control as it is a regulatory agreement.

Thank you,
Wendy

From: Chance, Joanne C [mailto:joanne.chance@rl.doe.gov]
Sent: Monday, April 07, 2014 1:42 PM
To: Thompson, Wendy S
Cc: Elliott, Wanda; Jakubek, Joshua E; Biebrich, Ernest J; Saueressig, Daniel G; Howell, Theresa Q
Subject: RE: 100-N-84:2 and River Road Agreement

Hi Wendy,

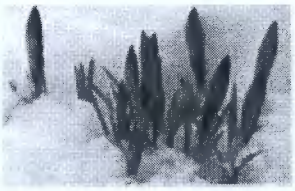
I also concur with both items. Thanks.

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, April 03, 2014 3:11 PM
To: Thompson, Wendy S; Chance, Joanne C
Cc: Jakubek, Joshua E; Biebrich, Ernest J; Saueressig, Daniel G; Howell, Theresa Q
Subject: RE: 100-N-84:2 and River Road Agreement

I concur with both of the items listed.

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



From: Thompson, Wendy S [mailto:WSTHOMPS@wch-rcc.com]
Sent: Thursday, April 03, 2014 12:51 PM
To: Elliott, Wanda (ECY); Chance, Joanne C
Cc: Jakubek, Joshua E; Biebrich, Ernest J; Saueressig, Daniel G; Howell, Theresa Q
Subject: 100-N-84:2 and River Road Agreement

Wanda, Joanne,

As part of finalizing the draft VWI for 100-N-84:2, we were looking at the May 2011 "River Road Agreement" (CCN 158653) verification sample results for RR-5. Sample RR-5 was located where 100-N-84:2, 100-N-84:3, and 100-N-84:7 pipelines were co-located. The first attached photo shows the river road pipelines during the 2011 remediation.

A soil sample (J1J4J5) and duplicate (J1J4J6) were collected on June 8, 2011, at the RR-5 location. PAHs and PCBs were detected above cleanup criteria. PCBs and PAHs in the duplicate sample exceeded direct exposure RAGs. At the time, no additional remediation was performed at this location and the site was backfilled to support decommissioning work going on for the river intake structures.

In March, WCH went back to excavate/remove additional soil at the RR-5 sample location and then perform follow-up verification sampling as specified in the "River Road Agreement". Additionally, we wanted to verify that the 100-N-84:2 pipelines were removed at this location (see sketch below). It was verified that the 100-N-84:2 pipelines were in fact removed. However, a small, localized soil stain was discovered in the north side wall of the excavation, approximately 35 ft to the north of the RR-5 sample location. The second attached photo shows this stain. WCH then did additional excavation to remove this stain; an additional 6 ft of soil was removed from the north wall of the excavation. The stain did not extend into the side wall of the excavation. The third photograph shows the approximate boundary of the excavation, sample location RR-5, and the soil stain location.

After the additional remediation, a replacement sample (J1TFW4/J1TFW6) and duplicate soil sample (J1TFW5/J1TFW7) were collected on March 24, 2014, at the RR-5 location and analyzed for all pipeline COPCs (100-N-84:2, 100-N-84:3, and 100-N-84:7) identifed in the river road agreement. The sample results detected PAHs exceeding soil cleanup criteria and exhibit a large variation in the PAH results, both between the main and duplicate sample and between the PAH

method and the SVOA method. This variation in results reflects sample heterogeniety and WCH believes this to be due to the presence of asphaltic material associated with the pipe coatings that would have been present on the 100-N-84:7 pipeline. The attached table provides a summary of the sample results.

WCH requires DOE/Ecology concurrence on the following items:

Stained soil location - The River Road Agreement indicates we will provide an email notification if stained soil identified and determine if an additional focus verification sample is needed at the location of the stain. Since the soil stain was small and localized and an additional 6 ft of soil was removed and no further staining observed, it is believed that a focus verification sample is not needed to verify stained soil removal.

PAH exceedances in replacement sample at RR-5 location - It is recommended that no further remediation to remove PAHs associated with this sample be performed since the PAHs are associated with asphaltic pipe coatings.

Please let WCH know if you have questions concerning this information and if you agree with path forward concerning the two items discussed.

Thank you,
Wendy

<< File: River Road Pipelines_11050004-190.jpg >> << File: 3-19-14 soil stain.JPG >> << File: RR-5sketch.jpg >>
<< File: 100-N-84_2_xTAB_LEAN2_Thompson_040314.xls >>
<< OLE Object: Picture (Enhanced Metafile) >>

From: Thompson, Wendy S
Sent: Thursday, April 03, 2014 10:14 AM
To: Weiss, Richard L
Subject: Request for cross tabs

Rich,

Would you please prepare cross tabs for SDG JP0767 (two samples) and MA08104?

Thanks,
Wendy

COA: 01N8422000

						Bromide			Chloride			Fluoride			Nitrogen in Nitrate			Nitrogen in Nitrite and Nitrate			Nitrogen in Nitrite			Phosphorous in phosphate			Sulfate			TPH - Diesel Ext			TPH - Diesel			TPH - Gasoline			Percent moisture (wet sample)		
						GENCHEM			GENCHEM			GENCHEM			GENCHEM			GENCHEM			GENCHEM			GENCHEM			GENCHEM			TPH			TPH			TPH			PHYSICAL		
SITE_CODE	SAMP_NUM	SAMP_DATE_TIME	SAMPLE_AREA	NORTHING	EASTING	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	ug/kg	Q	PQL	ug/kg	Q	PQL	ug/kg	Q	PQL	%	Q	PQL
100-N-84:2	J1TFW4	3/24/2014 9:15				0.41	U	0.41	9.4		2.1	1	B	0.87	1.7	B	0.33	0.38	U	0.38	0.35	U	0.35	1.3	U	1.3	102		1.8	83000	BN	1000	29000	B	680	340	U	340	6.6		0
100-N-84:2	J1TFW5	3/24/2014 9:15				0.4	U	0.4	6.4		2.1	0.98	B	0.85	1.9	B	0.33	0.98		0.38	0.35	U	0.35	1.3	U	1.3	121		1.8	13000	B	1000	6000	B	710	340	U	340	6.4		0

						Aluminum			Antimony			Arsenic			Barium			Beryllium			Boron			Cadmium		
						ICP			ICP			ICP			ICP			ICP			ICP			ICP		
SITE_CODE	SAMP_NUM	SAMP_DATE_TIME	SAMPLE_AREA	NORTHING	EASTING	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL
100-N-84:2	J1TFW4	3/24/2014 9:15				6200		1.6	0.38	U	0.38	2.1	M	0.66	61.2		0.076	0.033	U	0.033	0.98	U	0.98	0.12	B	0.041
100-N-84:2	J1TFW5	3/24/2014 9:15				5330		1.4	0.35	U	0.35	1.8		0.6	53.7		0.069	0.03	U	0.03	0.89	U	0.89	0.092	B	0.037

Calcium			Chromium			Cobalt			Copper			Iron			Lead			Magnesium			Manganese			Molybdenum			Nickel			Potassium			Selenium			Silico
ICP			ICP			ICP			ICP			ICP			ICP			ICP			ICP			ICP			ICP			ICP			ICP			ICP
mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q
6420		14.1	7.4		0.058	9.4	X	0.1	14.7	X	0.22	22500		3.8	5.6		0.27	4670	X	3.7	349		0.1	0.26	U	0.26	9.7	X	0.12	1050		41	0.86	U	0.86	281	
5490		12.9	6.7		0.053	8.3	X	0.091	15.1	X	0.2	20200		3.5	4		0.25	3990	X	3.4	265		0.091	0.24	U	0.24	8.2	X	0.11	922		37.4	0.79	U	0.79	217	

n	Silver			Sodium			Vanadium			Zinc			Hexavalent Chromium			Mercury		
	ICP			ICP			ICP			METALMULT			METALSING			METALSING		
PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL
5.7	0.16	U	0.16	351		59	50.3		0.094	46.3	X	0.4	0.408		0.155	0.0057	U	0.0057
5.2	0.15	U	0.15	302		53.9	46.6		0.086	39.8	X	0.36	0.344		0.155	0.0053	U	0.0053

						Americium-241			Cesium-137			Cobalt-60			Europium-152			Europium-154			Europium-155			Potassium-40			Radium-226		
						GEA			GEA			GEA			GEA			GEA			GEA			GEA			GEA		
SITE_CODE	SAMP_NUM	SAMP_DATE_TIME	SAMPLE_AREA	NORTHING	EASTING	pCi/g	Q	MDA	pCi/g	Q	MDA	pCi/g	Q	MDA	pCi/g	Q	MDA	pCi/g	Q	MDA	pCi/g	Q	MDA	pCi/g	Q	MDA	pCi/g	Q	MDA
100-N-84:2	J1TFW4	3/24/2014 9:15				-0.00207	U	0.0229	0.00512	U	0.018	-0.0103	U	0.0187	0.00289	U	0.0381	0.0091	U	0.0624	0.0265	U	0.0383	10.6		0.169	0.344		0.0298
100-N-84:2	J1TFW5	3/24/2014 9:15				-0.0007	U	0.0211	-0.000828	U	0.017	0.00649	U	0.0205	-0.0165	U	0.0362	-0.0146	U	0.0628	0.0173	U	0.0342	9.69		0.147	0.35		0.0299

						Total beta radiostrontium		
						RADGPC		
SITE_CODE	SAMP_NUM	SAMP_DATE_TIME	SAMPLE_AREA	NORTHING	EASTING	pCi/g	Q	MDA
100-N-84:2	J1TFW4	3/24/2014 9:15				0.152	U	0.363
100-N-84:2	J1TFW5	3/24/2014 9:15				0.06	U	0.364

						Acenaphthene			Anthracene			Benzo(a)anthracene			Benzo(a)pyrene			Benzo(b)fluoranthene			Benzo(ghi)perylene			Benzo(k)fluoranthene			Chrysene			Dibenz[a,h]anthracene			Fluoranthene		
						PAH			PAH			PAH			PAH			PAH			PAH			PAH			PAH			PAH			PAH		
SITE_CODE	SAMP_NUM	SAMP_DATE_TIME	SAMPLE_AREA	NORTHING	EASTING	ug/kg	Q	POL	ug/kg	Q	POL	ug/kg	Q	POL	ug/kg	Q	POL	ug/kg	Q	POL	ug/kg	Q	POL	ug/kg	Q	POL	ug/kg	Q	POL	ug/kg	Q	POL	ug/kg	Q	POL
100-N-84:2	J1TFW4	3/24/2014 9:15				58	JX	10	56	X	3.1	660		3.3	490		6.5	400	X	4.3	230		7.3	180		4	730		4.9	24	JX	11	290	X	13
100-N-84:2	J1TFW5	3/24/2014 9:15				10	U	10	3.2	U	3.2	11	JX	3.3	48	N	6.7	37	X	4.4	12	JNX	7.5	14	J	4.1	55	X	5	11	U	11	29	JX	14

						Acenaphthene			Anthracene			Benzo(a)anthracene			Benzo(a)pyrene			Benzo(b)fluoranthene			Benzo(ghi)perylene			Benzo(k)fluoranthene			Chrysene			Dibenz[a,h]anthracene			Fluoranthene		
						SVOA			SVOA			SVOA			SVOA			SVOA			SVOA			SVOA			SVOA			SVOA			SVOA		
SITE_CODE	SAMP_NUM	SAMP_DATE_TIME	SAMPLE_AREA	NORTHING	EASTING	ug/kg	Q	POL	ug/kg	Q	POL	ug/kg	Q	POL	ug/kg	Q	POL	ug/kg	Q	POL	ug/kg	Q	POL	ug/kg	Q	POL	ug/kg	Q	POL	ug/kg	Q	POL	ug/kg	Q	POL
100-N-84:2	J1TFW4	3/24/2014 9:15				10	U	10	17	U	17	39	J	20	32	J	20	45	J	26	16	U	16	39	U	39	47	J	26	19	U	19	39	J	35
100-N-84:2	J1TFW5	3/24/2014 9:15				130	J	11	390		18	470		21	310	J	21	430		27	130	J	17	140	J	42	440		28	29	J	20	1200	X	37

						Aroclor-1254			Carbazole			Dibenzofuran			Dimethyl phthalate		
						PCB			SVOA			SVOA			SVOA		
SITE_CODE	SAMP_NUM	SAMP_DATE_TIME	SAMPLE_AREA	NORTHING	EASTING	ug/kg	Q	POL	ug/kg	Q	POL	ug/kg	Q	POL	ug/kg	Q	POL
100-N-84:2	J1TFW4	3/24/2014 9:15				8.2	J	2.8	35	U	35	20	U	20	22	U	22
100-N-84:2	J1TFW5	3/24/2014 9:15				10	J	2.7	230	J	37	110	J	21	33	J	24

Fluorene			Indeno(1,2,3-cd)pyrene			Phenanthrene			Pyrene		
PAH			PAH			PAH			PAH		
ug/kg	Q	POL	ug/kg	Q	POL	ug/kg	Q	POL	ug/kg	Q	POL
69	X	5.4	200		12	28	JX	12	590		12
5.5	U	5.5	26	J	12	12	U	12	37	J	12

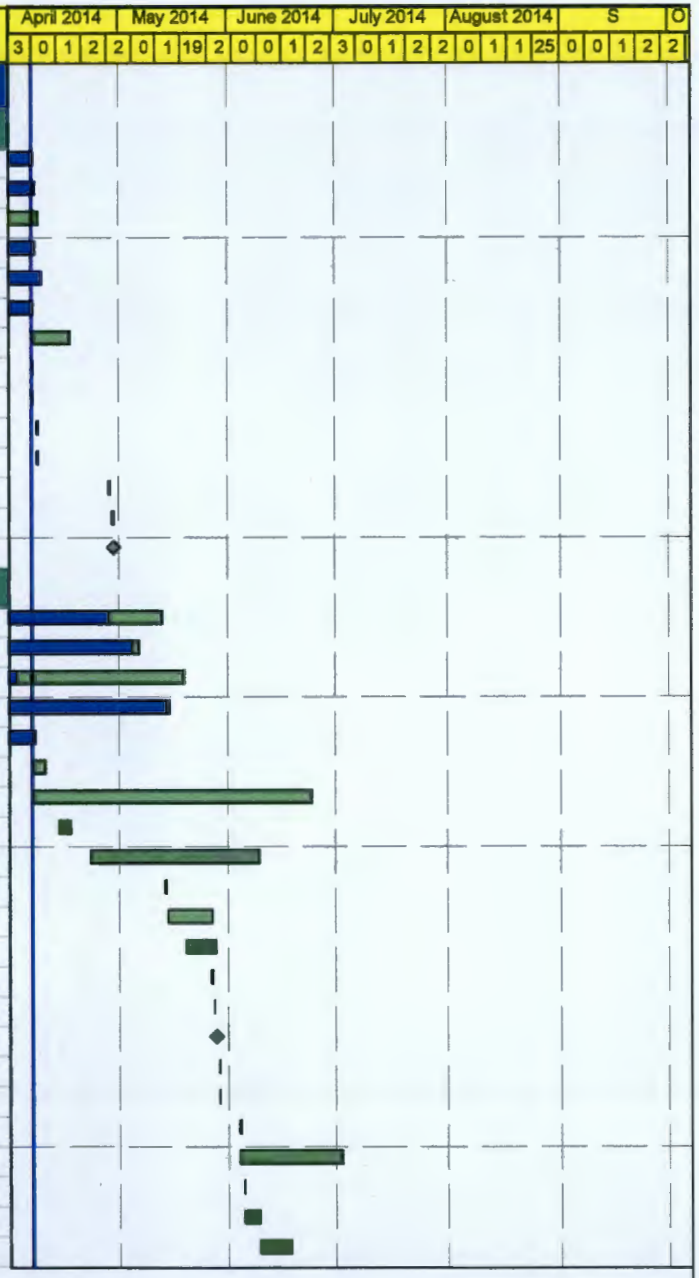
Fluorene			Indeno(1,2,3-cd)pyrene			Phenanthrene			Pyrene		
SVOA			SVOA			SVOA			SVOA		
ug/kg	Q	POL	ug/kg	Q	POL	ug/kg	Q	POL	ug/kg	Q	POL
18	U	18	21	U	21	17	U	17	54	J	12
180	J	19	130	J	23	1300	X	18	1000	X	13

SAMPLE NUMBER		J1TFW4			J1TFW5		
LOCATION		100-N-84:2			100-N-84:2		
CONSTITUENT	CLASS	03/24/14 09:15 AM			03/24/14 09:15 AM		
		ug/kg	Q	PQL	ug/kg	Q	PQL
Acenaphthene	PAH	58	JX	10	10	U	10
Acenaphthylene	PAH	9.2	U	9.2	9.4	U	9.4
Anthracene	PAH	56	X	3.1	3.2	U	3.2
Benzo(a)anthracene	PAH	660		3.3	11	JX	3.3
Benzo(a)pyrene	PAH	490		6.5	48	N	6.7
Benzo(b)fluoranthene	PAH	400	X	4.3	37	X	4.4
Benzo(ghi)perylene	PAH	230		7.3	12	JNX	7.5
Benzo(k)fluoranthene	PAH	180		4	14	J	4.1
Chrysene	PAH	730		4.9	55	X	5
Dibenz[a,h]anthracene	PAH	24	JX	11	11	U	11
Fluoranthene	PAH	290	X	13	29	JX	14
Fluorene	PAH	69	X	5.4	5.5	U	5.5
Indeno(1,2,3-cd)pyrene	PAH	200		12	26	J	12
Naphthalene	PAH	12	U	12	12	U	12
Phenanthrene	PAH	28	JX	12	12	U	12
Pyrene	PAH	590		12	37	J	12
Aroclor-1016	PCB	3	UN	3	2.9	U	2.9
Aroclor-1221	PCB	8.6	U	8.6	8.5	U	8.5
Aroclor-1232	PCB	2.1	U	2.1	2.1	U	2.1
Aroclor-1242	PCB	5	U	5	4.9	U	4.9
Aroclor-1248	PCB	5	U	5	4.9	U	4.9
Aroclor-1254	PCB	8.2	J	2.8	10	J	2.7
Aroclor-1260	PCB	2.8	UN	2.8	2.7	U	2.7
Aldrin	PEST	0.27	U	0.27	0.26	U	0.26
Alpha-BHC	PEST	0.23	U	0.23	0.22	U	0.22
alpha-Chlordane	PEST	0.34	U	0.34	0.33	U	0.33
beta-1,2,3,4,5,6-Hexachlorocyclohexane	PEST	0.71	U	0.71	0.68	U	0.68
Delta-BHC	PEST	0.43	U	0.43	0.41	U	0.41
Dichlorodiphenyldichloroethane	PEST	0.58	U	0.58	0.56	U	0.56
Dichlorodiphenyldichloroethylene	PEST	0.25	U	0.25	0.25	U	0.25
Dichlorodiphenyltrichloroethane	PEST	0.63	U	0.63	0.61	U	0.61
Dieldrin	PEST	0.22	U	0.22	0.22	U	0.22
Endosulfan I	PEST	0.19	U	0.19	0.18	U	0.18
Endosulfan II	PEST	0.31	U	0.31	0.3	U	0.3
Endosulfan sulfate	PEST	0.29	U	0.29	0.28	U	0.28
Endrin	PEST	0.33	U	0.33	0.32	U	0.32
Endrin aldehyde	PEST	0.18	U	0.18	0.18	U	0.18
Endrin ketone	PEST	0.52	U	0.52	0.5	U	0.5
Gamma-BHC (Lindane)	PEST	0.49	U	0.49	0.48	U	0.48
gamma-Chlordane	PEST	0.28	U	0.28	0.27	U	0.27
Heptachlor	PEST	0.23	U	0.23	0.22	U	0.22
Heptachlor epoxide	PEST	0.45	U	0.45	0.44	U	0.44
Methoxychlor	PEST	0.48	U	0.48	0.46	U	0.46
Toxaphene	PEST	17	U	17	16	U	16
1,2,4-Trichlorobenzene	SVOA	27	U	27	29	U	29
1,2-Dichlorobenzene	SVOA	21	U	21	23	U	23
1,3-Dichlorobenzene	SVOA	12	U	12	12	U	12
1,4-Dichlorobenzene	SVOA	13	U	13	14	U	14
2,4,5-Trichlorophenol	SVOA	9.8	U	9.8	10	U	10
2,4,6-Trichlorophenol	SVOA	9.8	U	9.8	10	U	10
2,4-Dichlorophenol	SVOA	9.8	U	9.8	10	U	10
2,4-Dimethylphenol	SVOA	64	U	64	69	U	69
2,4-Dinitrophenol	SVOA	330	U	330	350	U	350
2,4-Dinitrotoluene	SVOA	64	U	64	69	U	69
2,6-Dinitrotoluene	SVOA	27	U	27	29	U	29
2-Chloronaphthalene	SVOA	9.8	U	9.8	10	U	10
2-Chlorophenol	SVOA	20	U	20	22	U	22
2-Methylnaphthalene	SVOA	19	U	19	20	U	20
2-Methylphenol (cresol, o-)	SVOA	13	U	13	14	U	14
2-Nitroaniline	SVOA	49	U	49	52	U	52
2-Nitrophenol	SVOA	9.8	U	9.8	10	U	10
3,3'-Dichlorobenzidine	SVOA	88	U	88	94	U	94
3+4 Methylphenol (cresol, m+p)	SVOA	32	U	32	34	U	34
3-Nitroaniline	SVOA	71	U	71	76	U	76
4,6-Dinitro-2-methylphenol	SVOA	320	U	320	340	U	340
4-Bromophenylphenyl ether	SVOA	19	U	19	20	U	20
4-Chloro-3-methylphenol	SVOA	64	U	64	69	U	69
4-Chloroaniline	SVOA	80	U	80	85	U	85
4-Chlorophenylphenyl ether	SVOA	20	U	20	22	U	22

4-Nitroaniline	SVOA	71 U	71	75 U	75
4-Nitrophenol	SVOA	95 U	95	100 U	100
Acenaphthene	SVOA	10 U	10	130 J	11
Acenaphthylene	SVOA	17 U	17	18 U	18
Anthracene	SVOA	17 U	17	390	18
Benzo(a)anthracene	SVOA	39 J	20	470	21
Benzo(a)pyrene	SVOA	32 J	20	310 J	21
Benzo(b)fluoranthene	SVOA	45 J	26	430	27
Benzo(ghi)perylene	SVOA	16 U	16	130 J	17
Benzo(k)fluoranthene	SVOA	39 U	39	140 J	42
Bis(2-chloro-1-methylethyl)ether	SVOA	22 U	22	24 U	24
Bis(2-Chloroethoxy)methane	SVOA	22 U	22	24 U	24
Bis(2-chloroethyl) ether	SVOA	16 U	16	17 U	17
Bis(2-ethylhexyl) phthalate	SVOA	45 U	45	48 U	48
Butylbenzylphthalate	SVOA	42 U	42	45 U	45
Carbazole	SVOA	35 U	35	230 J	37
Chrysene	SVOA	47 J	26	440	28
Dibenz[a,h]anthracene	SVOA	19 U	19	29 J	20
Dibenzofuran	SVOA	20 U	20	110 J	21
Diethyl phthalate	SVOA	25 U	25	27 U	27
Dimethyl phthalate	SVOA	22 U	22	33 J	24
Di-n-butylphthalate	SVOA	28 U	28	30 U	30
Di-n-octylphthalate	SVOA	14 U	14	15 U	15
Fluoranthene	SVOA	39 J	35	1200 X	37
Fluorene	SVOA	18 U	18	180 J	19
Hexachlorobenzene	SVOA	28 U	28	30 U	30
Hexachlorobutadiene	SVOA	9.8 U	9.8	10 U	10
Hexachlorocyclopentadiene	SVOA	49 U	49	52 U	52
Hexachloroethane	SVOA	21 U	21	22 U	22
Indeno(1,2,3-cd)pyrene	SVOA	21 U	21	130 J	23
Isophorone	SVOA	17 U	17	18 U	18
Naphthalene	SVOA	30 U	30	32 U	32
Nitrobenzene	SVOA	21 U	21	23 U	23
N-Nitroso-di-n-dipropylamine	SVOA	30 U	30	32 U	32
N-Nitrosodiphenylamine	SVOA	20 U	20	22 U	22
Pentachlorophenol	SVOA	320 U	320	340 U	340
Phenanthrene	SVOA	17 U	17	1300 X	18
Phenol	SVOA	18 U	18	19 U	19
Pyrene	SVOA	54 J	12	1000 X	13

Attachment 12

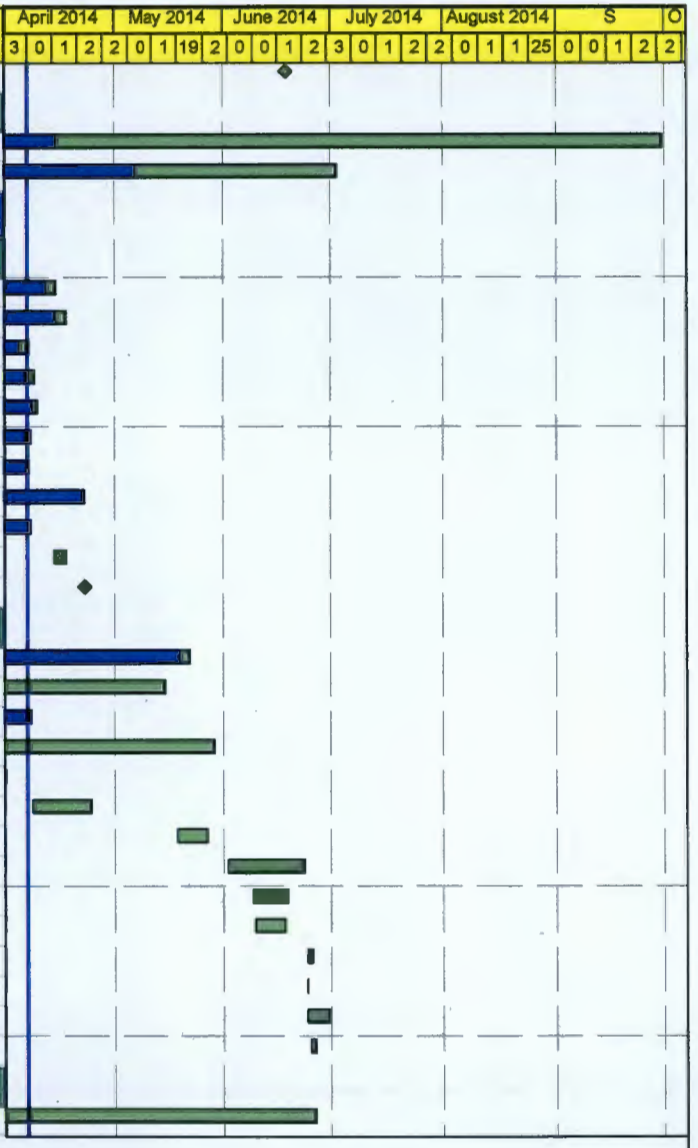
Activity ID	Activity Name	% Cmpl	RD	Start	Finish
100 D					
Excavation					
CBB0537A	Excavate 100-D-72 (5,306 BCM)	99%	0	14-Mar-14 A	07-Apr-14
CBB0535A	Excavate 100-D-69 - (1,754 BCM)	99%	1	20-Mar-14 A	07-Apr-14
CBB0545A	Excavate 100-D-86:1 (5,200 BCM) **RAD**	5%	2	24-Mar-14 A	08-Apr-14
CBB0544A	Excavate 100-D-85:2 (7,400 BCM) **RAD**	99%	1	26-Mar-14 A	07-Apr-14
CBC0518A	Excavate 100-D-106 - (5,412 BCM)	99%	3	31-Mar-14 A	09-Apr-14
CBB0548A	Excavate 100-D-97 (128 BCM)	99%	0	01-Apr-14 A	07-Apr-14
CBB0545AA10	Demo 100-D-86:1 (5,200 BCM) **RAD**	0%	8	07-Apr-14*	17-Apr-14
CBB0543A	Excavate 100-D-84:2 (634 BCM)	99%	1	07-Apr-14 A	07-Apr-14
CBB0541A	Excavate 100-D-83:3 (182 BCM)	99%	0	07-Apr-14 A	07-Apr-14
CBB0547A	Excavate 100-D-96:2 - (145 BCM)	0%	1	08-Apr-14*	08-Apr-14
CBB0550A	Excavate 100-D-99 - (567 BCM)	0%	1	08-Apr-14*	08-Apr-14
CBB0513A1	Excavate 1607-D2:5 (3387 BCM) direct load	0%	1	28-Apr-14*	28-Apr-14
CBB0538A	Excavate 100-D-75:2 - 617 bcms	0%	1	29-Apr-14	29-Apr-14
DMS070A	Excavation Campaign Complete 100D	0%	0		29-Apr-14
Loadout					
100D100A372	Loadout 100-D-100 Tier 3	94%	22	02-Sep-13 A	13-May-14
RD100D30A42	Loadout 100-D-30 Plume Loadout (MHVs - 97,600 Tons)	99%	18	14-Oct-13 A	06-May-14
100D100A422	LDR for 100-D Area (60,000)	65%	25	06-Jan-14 A	19-May-14
CBB0542B	Loadout 100-D-83:5	99%	24	21-Jan-14 A	15-May-14
100D104A313	Loadout 100-D-104 Tier 3	99%	1	17-Mar-14 A	07-Apr-14
CBB0545B	Loadout 100-D-86:1 (Orange Cans -)	0%	4	07-Apr-14*	10-Apr-14
CBB0556B	Loadout 147-D ISRM Pond	0%	45	07-Apr-14	24-Jun-14
CBB0534B	Loadout 100-D-81 5,318 Tons	0%	4	14-Apr-14*	17-Apr-14
CBB0516GCDD	Loadout 100-D-31:11&12 -	0%	26	23-Apr-14*	09-Jun-14
CBB0513B1	Loadout 1607-D2:5 (112 Tons) MHVs	0%	1	14-May-14*	14-May-14
CBB0516G	Loadout 100-D-31:11&12	0%	6	15-May-14*	27-May-14
100D104A375	Loadout 100-D-104 Tier 3 (LDR)	0%	5	20-May-14*	28-May-14
CBB0546B	Loadout 100-D-86:3 506 Tons)	0%	1	27-May-14*	27-May-14
CBB0541B	Loadout 100-D-83:3 (Blue Dot Containers - 174 Tons)	0%	0	28-May-14*	28-May-14
DMS080A10	Loadout Campaign complete (LDR)	0%	0		28-May-14
CBB0548B	Loadout 100-D-97 (Blue Dot Containers - 45 Tons)	0%	0	29-May-14*	29-May-14
CBB0543B	Loadout 100-D-84:2 (Blue Dot Cans - 280 Tons)	0%	0	29-May-14*	29-May-14
CBB0535B	Loadout 100-D-69 - (1,538 Tons) MHVs	0%	1	04-Jun-14*	04-Jun-14
CBB0544B	Loadout 100-D-85:2 (RAD) OrangeCans	0%	17	04-Jun-14*	02-Jul-14
CBB0547B	Loadout 100-D-96:2 - (3 Tons) MHVs	0%	1	05-Jun-14*	05-Jun-14
CBB0550B	Loadout 100-D-99 - (281 Tons) MHVs	0%	1	05-Jun-14*	09-Jun-14
CBC0518B	Loadout 100-D-106 - (11,906 Tons)	0%	6	09-Jun-14*	18-Jun-14



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

Data Date: 07-Apr-14

Activity ID	Activity Name	% Cmpl	RD	Start	Finish
DMS080A	Loadout Campaign Complete (Super Dumps) 100D	0%	0		18-Jun-14
Non Site Specific Support					
RDCONT5353	Demobilization from 100-DR, Partial D-Mac and 100-H Area's	33%	99	22-Jan-14 A	30-Sep-14
RDCONT5323	100-D Exit Items	60%	50	10-Feb-14 A	02-Jul-14
100 H					
Excavation					
HB512A6	Excavate 100-H-28:3 Section C - All Else (41,394 BCM)	99%	5	17-Jul-13 A	14-Apr-14
HB511A023	Demo 100-H-28:2-3 Concrete Demolition and Size Reduction	99%	8	30-Jul-13 A	17-Apr-14
HB514A	Excavate 100-H-28:5 Section B - All else (11,900 BCM)	99%	0	06-Aug-13 A	07-Apr-14
HB511A04	Excavate 100-H-28:2 Phase 2 - (55,355 BCMs)	99%	2	23-Sep-13 A	08-Apr-14
HB513A02	Excavate 100-H-28:4 Phase 2 (3,644 BCMs)	99%	3	13-Nov-13 A	09-Apr-14
HB515A	Excavate 100-H-42 (33,197 BCM) **RAD**	99%	1	30-Dec-13 A	07-Apr-14
HB516A	Excavate 100-H-43 - Power line Interference (819 BCM)	99%	0	03-Mar-14 A	07-Apr-14
HB525A	Excavate 100-H-51:1 (1,793 BCM)	99%	10	17-Mar-14 A	22-Apr-14
HB526A	Excavate 100-H-51:3 (625 BCM)	99%	1	18-Mar-14 A	07-Apr-14
HB524A	Excavate 100-H-49:1 (426 BCM)	0%	4	14-Apr-14*	17-Apr-14
DMS070B	Excavation Campaign Complete 100H	0%	0		22-Apr-14
Loadout					
HB512B	Loadout 100-H-28:3 11,518 Tons	99%	5	17-Jul-13 A	22-May-14
HB511B04	Loadout 100-H-28:2	36.5%	24	02-Oct-13 A	15-May-14
HB517B	Loadout 100-H-44 (Blue Dot - 20,000 Tons)	99%	1	17-Feb-14 A	07-Apr-14
HB513B4	Loadout 100-H-28:4 2,202 Tons	6%	31	24-Feb-14 A	29-May-14
HB521B	Loadout 100-H-52 (Blue Dot - 156 Tons)	100%	0	01-Apr-14 A	01-Apr-14 A
HB528B	Loadout 100-H-59 (16,903 Tons)	0%	11	08-Apr-14*	24-Apr-14
HB512B11	Loadout 100-H-28:3 BlueDot	0%	5	19-May-14*	27-May-14
HB515B	Loadout 100-H-42 (Orange Cans -	0%	13	02-Jun-14*	23-Jun-14
HB514B	Loadout 100-H-28:5 (Blue Dot - 4,096 Tons)	0%	7	09-Jun-14*	18-Jun-14
CBB0537B	Loadout 100-D-72 Direct Load -	0%	5	10-Jun-14*	18-Jun-14
HB516B	Loadout 100-H-43 (Blue Dot - 1,803 Tons)	0%	2	24-Jun-14*	25-Jun-14
HB524B	Loadout 100-H-49:1 (135 Tons) MHVs	0%	1	24-Jun-14*	24-Jun-14
HB528B10	Loadout 100-H-59	0%	4	24-Jun-14	30-Jun-14
HB519B	Loadout 100-H-48 951 Tons	0%	2	25-Jun-14*	26-Jun-14
Non Site Specific Support					
HNSSETC12	100-H Mobile Infrastructure	20%	47	01-Oct-13 A	26-Jun-14



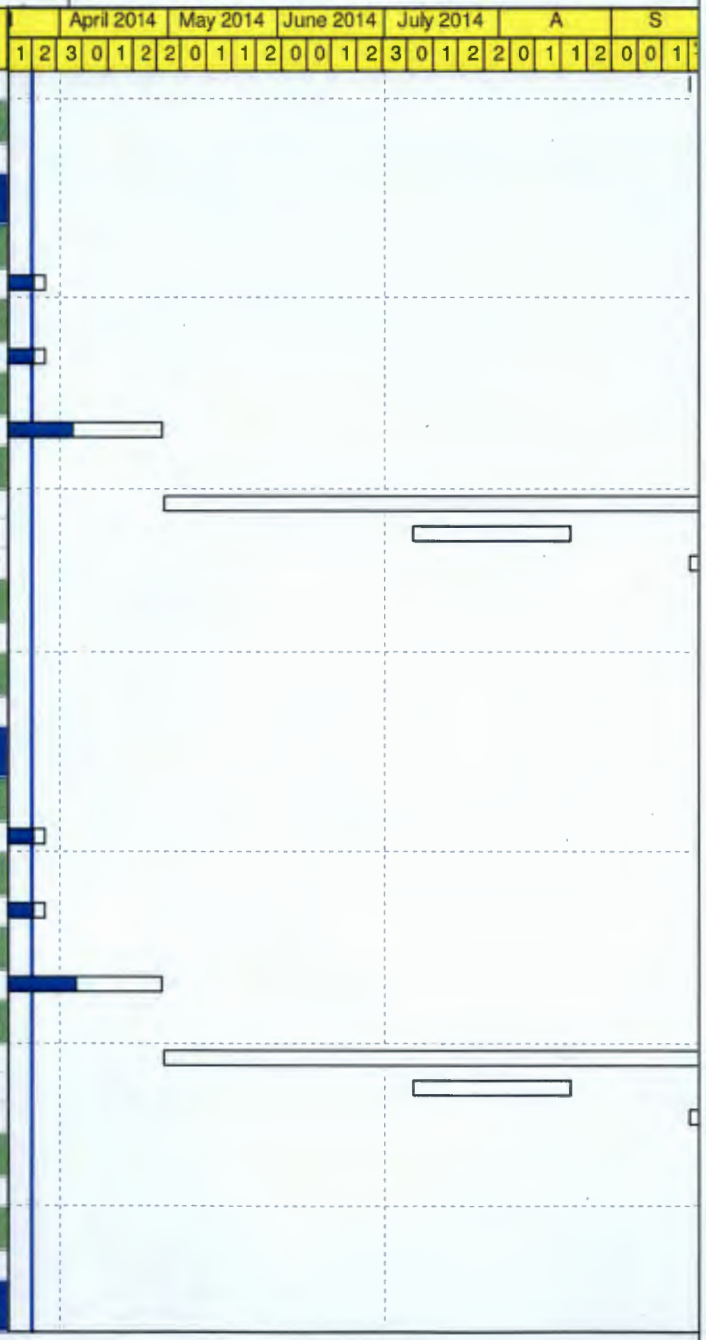
SPIF Bar | Remaining Work | Critical Remaining Work
Actual Work | Actual Critical Work | Remaining Level of Effort

Data Date: 07-Apr-14

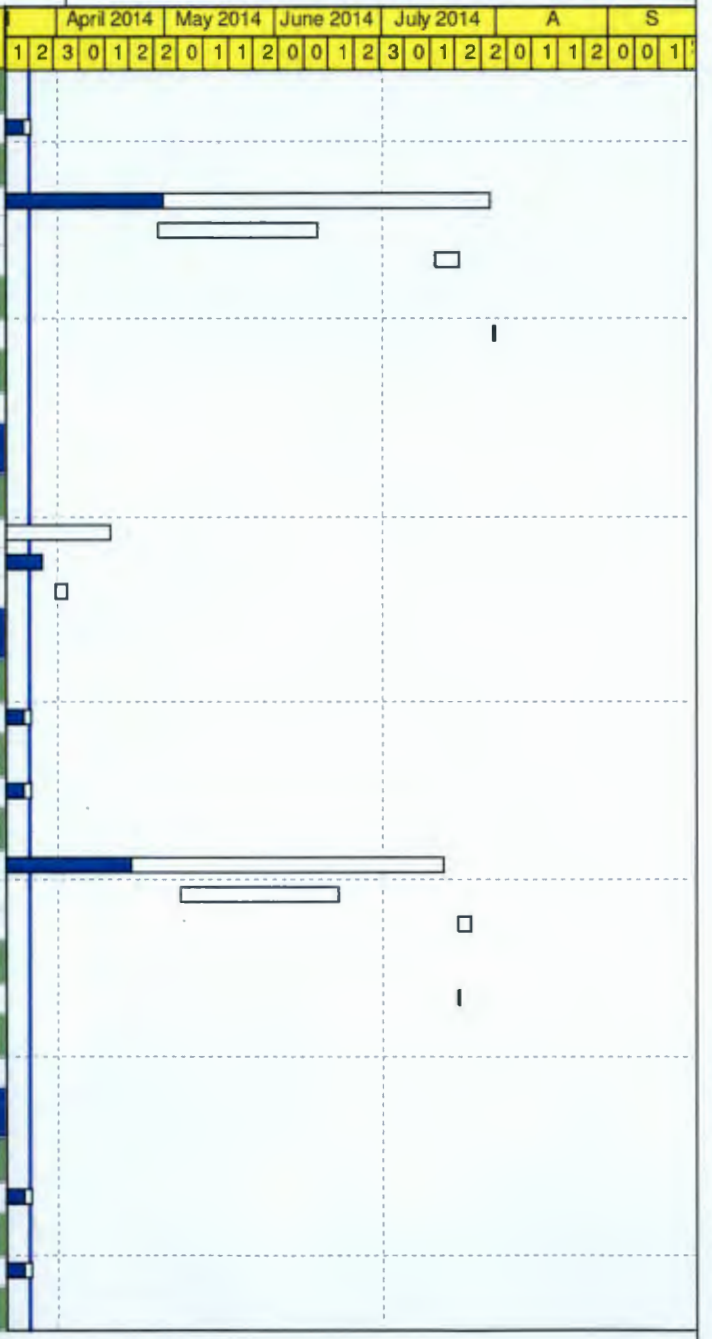
Attachment 13

Activity ID	Activity Name	% Cmpl	RD	Start	Finish
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
Closeout 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%	107	26-Jun-13 A	30-Sep-14
600-349 UXO Site					
Excavation					
IU225790	Excavation 600-349	0%	17	13-May-14	11-Jun-14
Loadout					
IU225800	Loadout 600-349	0%	35	13-May-14	15-Jul-14
600-383					
Excavation					
IU225450	Excavation 600-383 (D/H Boundary Site)	98%	1	31-Oct-13 A	24-Mar-14
Loadout					
IU225350	Loadout 600-383	98%	1	31-Oct-13 A	24-Mar-14
Closeout Sampling & Docs					
IU225370	Closure Sampling 600-383	50%	8	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					

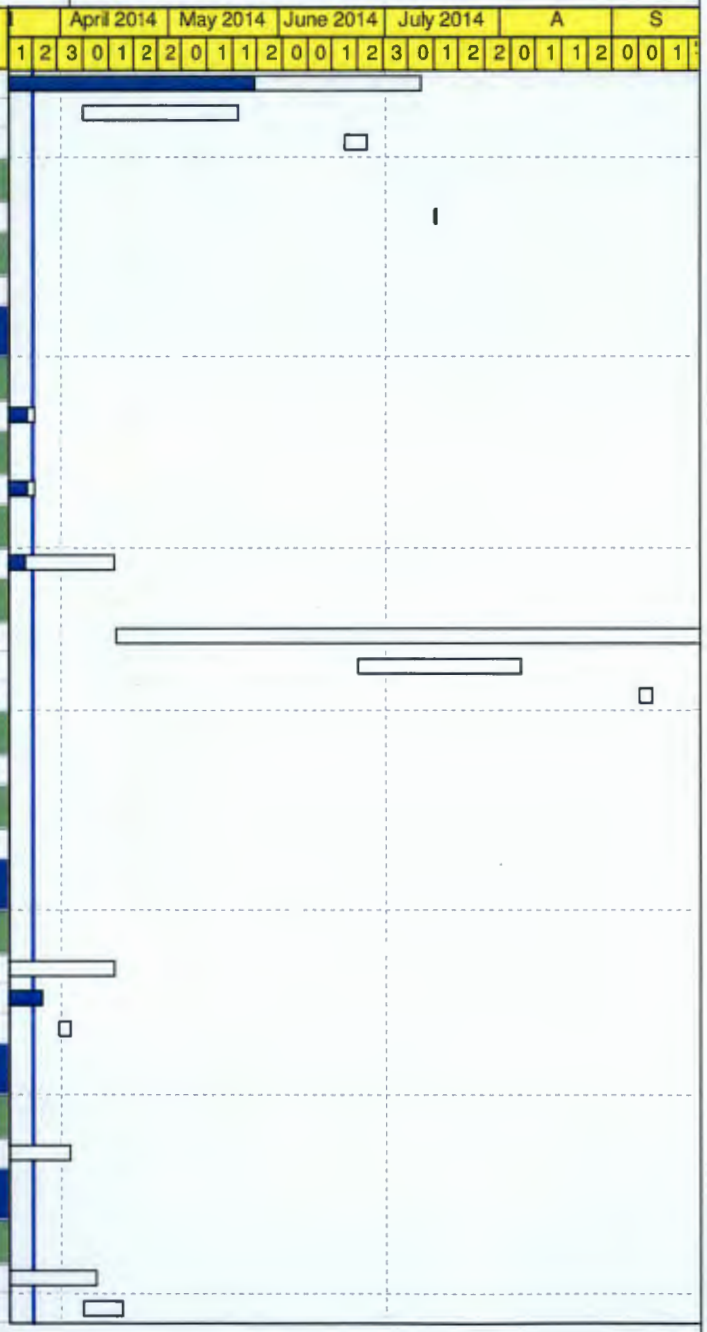
Activity ID	Activity Name	% Cmpl	RD	Start	Finish
IU225430	Backfill 600-383	0%	1	22-Sep-14	22-Sep-14
Revegetation					
IU225440	Revegetation 600-383	0%	8	10-Nov-14*	20-Nov-14
600-384					
Excavation					
IU225560	Excavation 600-384 (D/H Boundary Site)	98%	4	04-Nov-13 A	27-Mar-14
Loadout					
IU225460	Loadout 600-384	98%	4	04-Nov-13 A	27-Mar-14
Closeout Sampling & Docs					
IU225480	Closure Sampling 600-384	50%	22	10-Mar-14 A	29-Apr-14
Final Project Closeout					
IU225490	Prepare Closure Document 600-384	0%	93	30-Apr-14	14-Oct-14
IU225500	RL/Reg Review of Draft A Closure Document 600-384	0%	26	08-Jul-14	20-Aug-14
IU225510	RL/Reg Signature Rev.0 Closure Document 600-384	0%	4	22-Sep-14	25-Sep-14
Backfill					
IU225540	Backfill 600-384	0%	1	15-Oct-14	15-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%	4	29-Oct-13 A	27-Mar-14
Loadout					
IU225240	Loadout 600-382	98%	4	29-Oct-13 A	27-Mar-14
Closeout Sampling & Docs					
IU225260	Closure Sampling 600-382	50%	22	12-Mar-14 A	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					



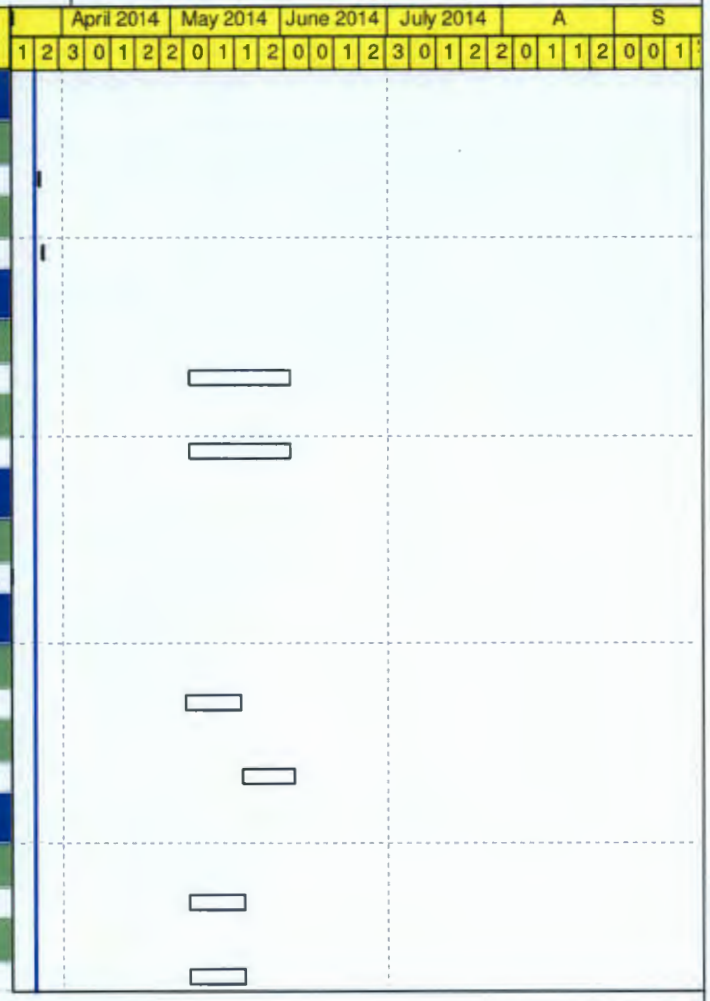
Activity ID	Activity Name	% Cmpl	RD	Start	Finish
Excavation					
IU226500	Plume Chase 600-356 (Segment 1)	98%	1	05-Dec-13 A	24-Mar-14
Final Project Closeout					
IU226050	Prepare Closure Document 600-356	38%	73	06-Mar-14 A	30-Jul-14
IU226470	RL/Reg Review of Draft A Closure Document 600-356	0%	26	29-Apr-14	12-Jun-14
IU226480	RL/Reg Signature Rev.0 Closure Document 600-356	0%	4	15-Jul-14	21-Jul-14
Backfill					
IU226030	Backfill 600-356	0%	1	31-Jul-14	31-Jul-14
Revegetation					
IU226060	Revegetation 600-356	0%	1	10-Nov-14*	10-Nov-14
600-375					
Final Project Closeout					
IU224500	Prepare Closure Document 600-375	76%	14	02-Dec-13 A	15-Apr-14
IU224510	RL/Reg Review of Draft A Closure Document 600-375	100%	0	21-Jan-14 A	27-Mar-14 A
IU224520	RL/Reg Signature Rev.0 Closure Document 600-375	0%	4	31-Mar-14	03-Apr-14
600-377					
Excavation					
IU224790	Excavation 600-377	98%	1	16-Dec-13 A	24-Mar-14
Loadout					
IU224690	Loadout 600-377	98%	1	16-Dec-13 A	24-Mar-14
Final Project Closeout					
IU224720	Prepare Closure Document 600-377	38%	66	27-Feb-14 A	17-Jul-14
IU224730	RL/Reg Review of Draft A Closure Document 600-377	0%	26	05-May-14	18-Jun-14
IU224740	RL/Reg Signature Rev.0 Closure Document 600-377	0%	4	21-Jul-14	24-Jul-14
Backfill					
IU224770	Backfill 600-377	0%	1	21-Jul-14	21-Jul-14
Revegetation					
IU224780	Revegetation 600-377	0%	12	10-Nov-14*	02-Dec-14
600-379					
Excavation					
IU225010	Excavation 600-379	98%	1	18-Dec-13 A	24-Mar-14
Loadout					
IU224910	Loadout 600-379	98%	1	18-Dec-13 A	24-Mar-14
Final Project Closeout					



Activity ID	Activity Name	% Cmpl	RD	Start	Finish
IU224940	Prepare Closure Document 600-379	69%	62	11-Feb-14 A	10-Jul-14
IU224950	RL/Reg Review of Draft A Closure Document 600-379	0%	26	07-Apr-14	20-May-14
IU224960	RL/Reg Signature Rev.0 Closure Document 600-379	0%	4	19-Jun-14	25-Jun-14
Backfill					
IU224990	Backfill 600-379	0%	1	14-Jul-14	14-Jul-14
Revegetation					
IU225000	Revegetation 600-379	0%	12	10-Nov-14*	02-Dec-14
600-378					
Excavation					
IU224900	Excavation 600-378	98%	1	17-Dec-13 A	24-Mar-14
Loadout					
IU224800	Loadout 600-378	98%	1	17-Dec-13 A	24-Mar-14
Closeout Sampling & Docs					
IU224820	Closure Sampling 600-378	50%	14	26-Feb-14 A	15-Apr-14
Final Project Closeout					
IU224830	Prepare Closure Document 600-378	0%	93	16-Apr-14	30-Sep-14
IU224840	RL/Reg Review of Draft A Closure Document 600-378	0%	26	23-Jun-14	06-Aug-14
IU224850	RL/Reg Signature Rev.0 Closure Document 600-378	0%	4	08-Sep-14	11-Sep-14
Backfill					
IU224880	Backfill 600-378	0%	1	01-Oct-14	01-Oct-14
Revegetation					
IU224890	Revegetation 600-378	0%	12	10-Nov-14*	02-Dec-14
600-279					
Final Project Closeout					
IU223290	Prepare Closure Document 600-279	76%	14	12-Dec-13 A	15-Apr-14
IU223300	RL/Reg Review of Draft A Closure Document 600-279	100%	0	03-Feb-14 A	27-Mar-14 A
IU223310	RL/Reg Signature Rev.0 Closure Document 600-279	0%	4	31-Mar-14	03-Apr-14
100-K Area Exit Items					
Loadout					
IU226400	100-K Exit Items Removal	5%	8	12-Feb-14 A	03-Apr-14
IU Exit Items					
Loadout					
IU226420	IU-2 Exit Items Removal	50%	12	22-Jan-14 A	10-Apr-14
IU226430	IU-6 Exit Items Removal	0%	8	07-Apr-14*	17-Apr-14



Activity ID	Activity Name	% Cmpl	RD	Start	Finish
600-331					
Excavation					
IU223580	Excavation 600-331	0%	1	25-Mar-14*	25-Mar-14
Loadout					
IU223480	Loadout 600-331	0%	1	26-Mar-14	26-Mar-14
600-332					
Excavation					
IU223690	Excavation 600-332	0%	16	06-May-14*	03-Jun-14
Loadout					
IU223590	Loadout 600-332	0%	16	06-May-14	03-Jun-14
600-380					
Final Project Closeout					
IU225050	Prepare Closure Document 600-380	100%	0	16-Dec-13 A	18-Mar-14 A
600-20					
Excavation					
IU226110	Excavation 600-20	0%	10	05-May-14*	20-May-14
Loadout					
IU226120	Loadout 600-20	0%	8	21-May-14	04-Jun-14
600-358					
Excavation					
IU225900	Excavation 600-358	0%	10	06-May-14*	21-May-14
Loadout					
IU225910	Loadout 600-358	0%	10	06-May-14*	21-May-14



Attachment 14

175136

^WCH Document Control

From: Saueressig, Daniel G
Sent: Thursday, March 20, 2014 2:47 PM
To: ^WCH Document Control
Subject: FW: Remediation at 26 IU2/IU6 Waste Sites

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: Thursday, March 20, 2014 2:00 PM
To: Glossbrenner, Ellwood T; Saueressig, Daniel G
Subject: RE: Remediation at 26 IU2/IU6 Waste Sites

Works for me as well.

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: Glossbrenner, Ellwood T [mailto:ellwood.glossbrenner@rl.doe.gov]
Sent: Thursday, March 20, 2014 1:50 PM
To: Saueressig, Daniel G; Guzzetti, Christopher
Subject: RE: Remediation at 26 IU2/IU6 Waste Sites

Dan and Chris,

I concur with using the smaller CERCLA warning signs.

Ellwood T. Glossbrenner
509-376-5828

From: Saueressig, Daniel G [mailto:dgsauere@wch-rcc.com]
Sent: Tuesday, March 18, 2014 4:01 PM
To: 'Christopher Guzzetti'; Glossbrenner, Ellwood T
Subject: RE: Remediation at 26 IU2/IU6 Waste Sites

Chris/Ellwood, with your concurrence, we plan to use the smaller CERCLA warning signs at the entrance to the

600-346 and 600-20 waste sites.

Let me know if you're concur.

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
> 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]

Attachment 15

175119

^WCH Document Control

From: Saueressig, Daniel G
Sent: Wednesday, March 19, 2014 3:44 PM
To: ^WCH Document Control
Subject: FW: OSD

Please provide a chron number. This email documents a regulatory approval. Please distribute to Jeff Westcott, Mike Thurman and Darrin Faulk.

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

From: Einan, Dave [mailto:Einan.David@epa.gov]
Sent: Wednesday, March 19, 2014 3:37 PM
To: Westcott, Jeffery L
Cc: Thurman, Michael E; Saueressig, Daniel G
Subject: RE: OSD

I have heard back from Region 4 and DSSI is acceptable for shipments through May 19, 2014.

Dave Einan
509-376-3883

From: Westcott, Jeffery L [mailto:jlwestco@wch-rcc.com]
Sent: Wednesday, March 19, 2014 1:38 PM
To: Einan, Dave
Cc: Thurman, Michael E; Saueressig, Daniel G
Subject: OSD

I will be away from work 3/20 through 3/31, in my absence please send the OSD to Mike Thurman.

(S!)

Attachment 16

300 Area Closure Project Status
April 10, 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 reactor containment.
- 340 - Initiated final remediation of 340 waste sites.
- 324 – Continue min-safe operations. Initiated NEPA and NHPA Section 106 reviews of the AREVA off-site mockup location.
- Remaining 300 Area Waste Sites – Completed Zone 5 process sewer piping remediation, initiated Zone 4 process sewer remediation.
- Continuing development of new RDR/RAWP following issuance of the 300 Area Final Action Record of Decision.
- 326 - Completing below-grade demolition, backfill initiated.
- 3730 – Shipped last remaining hot-cell, backfill pending.

Demolition & Remediation Preparation Activities

- 3790 – Demolition 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 17

ESH&QA Mission Completion Project
April 10, 2014

Long-Term Stewardship

- The 100-K Area Interim Remedial Action Report, Draft A is currently in the process of being transmitted to RL for review and subsequent transmittal to EPA for review.

300 Area Final Action ROD RDR/RAWP

- The decisional draft of the associated revision to the soil SAP was submitted to RL for review on 3/11/14.

Document Review Look-Ahead

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