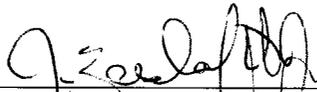


100/300 AREA UNIT MANAGERS MEETING
APPROVAL OF MEETING MINUTES

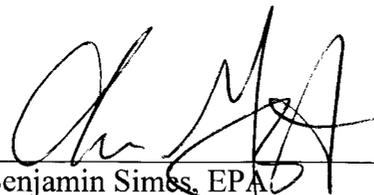
July 10, 2014

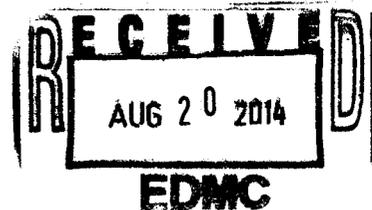
APPROVAL:  Date 8/14/14
for Mark French, DOE/RL (A6-38)
River Corridor Project Manager

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

APPROVAL:  Date 8/18/14
for Nina Menard, Ecology (H0-57)
Environmental Restoration Project
Manager

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

APPROVAL:  for Date 8/14/14
Benjamin Simes, EPA
(B1-46)
300 Area Project Manager



Please distribute to the following:

100/300 AREA UNIT MANAGER MEETING ATTENDANCE AND DISTRIBUTION

NAME	E-MAIL ADDRESS	MSIN	COMP
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Menard, Nina	NMEN461@ECY.WA.GOV	H0-57	ECO
Guzzetti, Chris	GUZZETTI.CHRISTOPHER@EPA.GOV	B1-46	EPA
Hadley, Karl A	karl.hadley@wch-rcc.com	H4-21	WCH

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

July 10, 2014

ADMINISTRATIVE

- Next Unit Manager Meeting (UMM) – The next meeting will be held August 14, 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 June 12, 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 Regular Session meeting agenda.

EXECUTIVE SESSION (Tri-Parties Only)

An Executive Session was not held by RL, EPA, and Ecology prior to the July 10, 2014, UMM.

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

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

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

Attachment 1 provides status and information for groundwater. Attachment 3 provides status and information for Washington Closure Hanford (WCH) Closure Operations activities (WCH combined its D4 and Field Remediation organizations). No issues were identified and no action items were documented.

Agreement 1: Attachment 4 provides EPA's approval to close the 100-B/C CTA by stockpiling the CTA material as bedding for the 100-B-35 electrical substation during remediation of the site. Any remaining material would be offered to other contractors for use in maintenance of various perimeter roads.

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

Attachment 1 provides status and information for groundwater. Attachment 3 provides status and information for WCH Closure Operations activities. Attachment 5 provides the Field Remediation Schedule for 100-N. No issues were identified and no action items were documented.

Agreement 1: Attachment 6 provides Ecology's and DOE's approvals to update the WIDS description for the 100-N-106 Shallow Petroleum-Only Releases (SPOR) waste site due to changes in the size of the waste site since it was initially created. The updated description will include sample data and a drawing. Concurrence also was provided to backfill and revegetate the site while awaiting future disposition in the final Record of Decision.

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

Attachment 1 provides status and information for groundwater. Attachment 3 provides status and information for WCH Closure Operations activities. Attachment 7 provides the Field Remediation Schedule for 100-D and 100-H. No issues were identified.

Action Item: At the next UMM, PRC will include charts showing pump and treat performance for the 100-D, 100-H, and 100-K Areas.

Agreement 1: Attachment 8 provides EPA's non-contiguous onsite approval to either (1) move an ERDF can containing lead debris from the 100-D CTA to the 100-H CTA to add some additional lead debris encountered from remediation activities at 100-H or (2) move the lead debris encountered at 100-H to 100-D and add it to the ERDF can staged there for macro encapsulation (depending on the quantity encountered).

Agreement 2: Attachment 9 provides Ecology's approval for a one-year extension to the 100-H container storage area for potential use to store waste from equipment spills and confirmatory sampling events. This brings the expiration of the area to June 5, 2015.

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

Attachment 1 provides status and information for groundwater. Attachment 3 provides status and information for WCH Closure Operations activities. Attachment 10 provides the Field Remediation Schedule for IU-2/6. No issues were identified and no action items were documented.

Agreement 1: Attachment 11 provides EPA's and DOE's concurrences to set up a container storage area at 600-349 for up to one year to store anomalous material (mainly lead) collected during UXO removal activities at the site prior to being sent for recycle.

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

Attachment 1 provides status and information for groundwater. Attachment 3 provides status and information for WCH Closure Operations activities. No issues were identified and no agreements or action items were documented.

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

Attachment 1 provides status and information for groundwater. Attachment 12 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 13 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.

OTHER TOPICS

Wanda Elliot noted that she would be taking over 100-D and 100-H from Artie Kapell.

Jamie Zeisloft noted that a public notice would go out requesting input between August 15 and October 1, 2014, on the Five Year Review. The Five Year Review would be drafted by October 2015 and be issued by November 2016.

Bill Faught offered to give an update on the status of the WSCF lab at the next UMM. (It will be given at the start of the next UMM.)

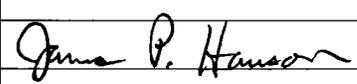
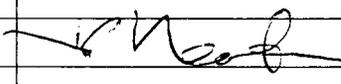
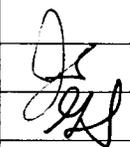
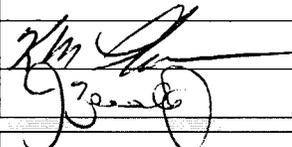
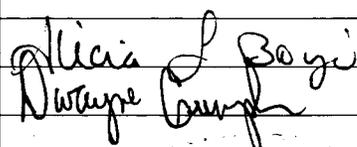
Chris Guzzetti requested that the new EPA 300 Area Project Manager, Benjamin Simes, be added to the distribution list. His email address is: Simes.Benjamin@EPA.gov

Attachment A

100/300 AREA UNIT MANAGER MEETING

ATTENDANCE AND DISTRIBUTION

July 10, 2014

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Attachment B

100/300 Area UMM

Action List

July 10, 2014

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Status

100/300 Area UMM

Action List

July 10, 2014

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Status

Attachment C

100/300 Area Unit Manager Meeting
July 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 (June 12, 2014)
- Update to Action Items List
- Next UMM (8/14/2014, 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

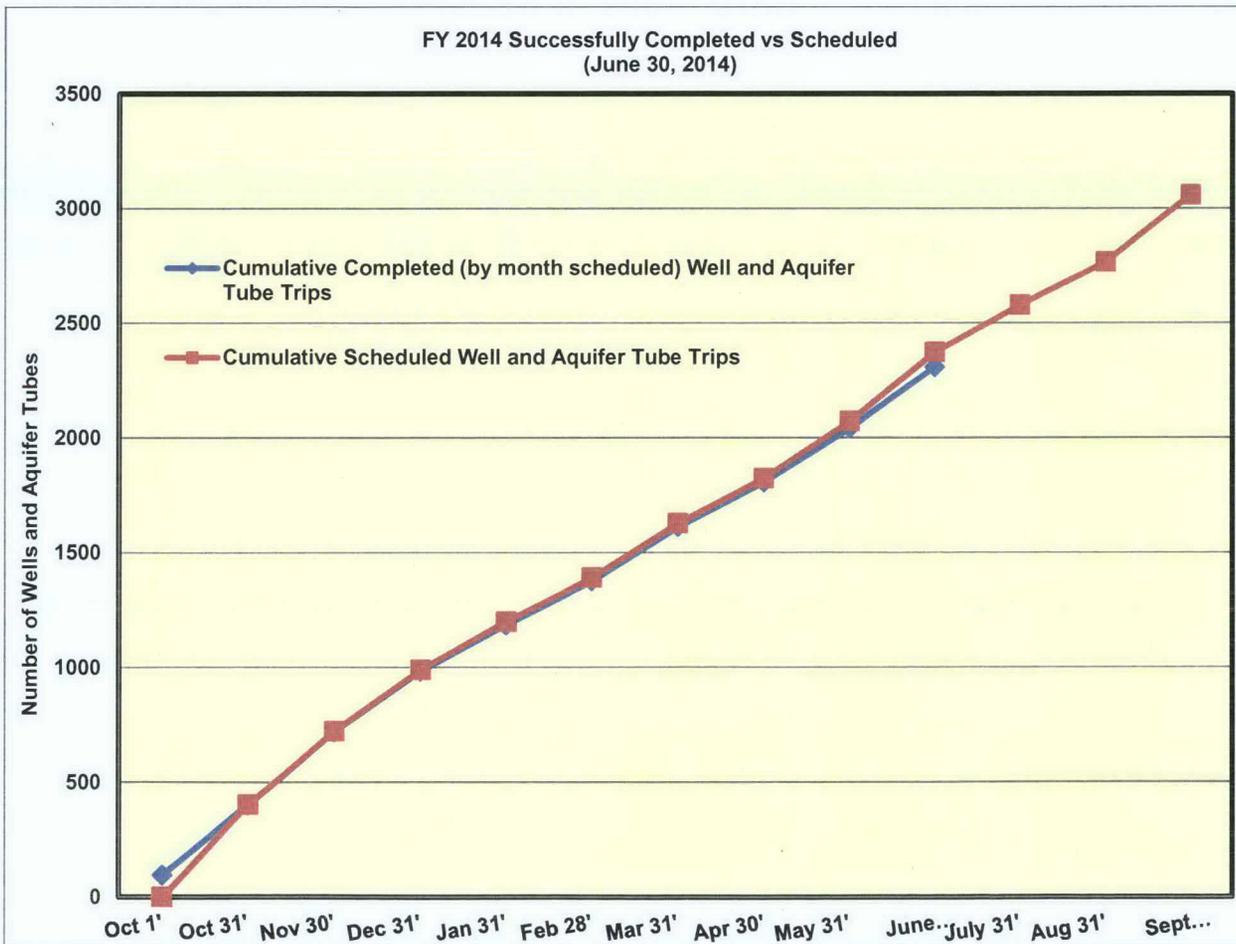
**100/300 Areas Unit Managers Meeting
July 10, 2014**

General information on Remedy Selection & Implementation

Hanford's overall Site groundwater monitoring program (River Corridor and Central Plateau) for 2014 has 3,064 sample trips scheduled for collection. During June 2014 (month nine) the program successfully completed 265 groundwater sampling trips of the 308 scheduled and 59 trips scheduled for October through May. In addition, 2 trips from FY-2013 were completed making the total number of successful trips collected in June at 326. This brings the total number of sample trips scheduled for October through June to be collected successfully to 2,307 of 2,380.

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

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



100/300 Areas Unit Managers Meeting
July 10, 2014

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/design is underway for FY14, with completion of the characterization scheduled for FY15.
 - RD/RAWP, Monitoring Plan, and Operations and Maintenance Plan: Based on the results from the RL SAP Panel review of the D/H monitoring plan, RL's comments will be addressed in the 100-KR-4 monitoring plan.
- Remedial Actions & System Modifications
 - Operations continue at KX, KR-4, and KW pump-and-treat systems. June 2014 performance:
 - The systems treated 51.99 million gallons.
 - The system removed 3.38 kg of hexavalent chromium.
 - Completed construction activities to connect injection well 199-K-206 to the KW P&T. This new injection well is now in service.
 - Continued construction activities to connect extraction well 199-K-205 to the KW P&T facility
 - Initiated construction activities to connect extraction wells 199-K-210, 199-K-212 and 199-K-220 to the KX P&T facility.
 - Completed construction and development of well 199-K-210, 199-K-212 and 199-K-220.
- Monitoring and Reporting
 - Hexavalent chromium concentration in groundwater at 100-KR-4 OU continues a general decline with operation of the pump-and-treat systems. Three exceptions to the general decline are observed at well 100-K-36 (located at the KE Head House vicinity), well 199-K-111A (located near the 118-K-1 Burial Ground) (see Figure K-1 below), and new well 199-K-205 (located at the KW Head House vicinity). Two of these wells have exhibited increasing hexavalent chromium concentration trends since 2011 and are inferred to represent two different conditions; Well 199-K-36 apparently represents continued release of hexavalent chromium from a vadose zone source in the head house vicinity. Well 199-K-111A apparently indicates migration of hexavalent chromium from the vicinity of the head end of the 116-K-2 Trench under the groundwater flow vectors associated with the 100-KX and 100-KR4 pump-and-treat system injection wells. The chromium observed in these wells is expected to be captured by down gradient extraction wells; the condition observed at 199-K-111A is in the capture area of extraction wells 199-K-141, -K-178, -K-144, and newly-installed well 199-K-210. The condition observed at well 199-K-36 will fall within the expected capture area of newly-installed well 199-K-220. 199-K-205, a newly-installed KW extraction well located at the KW Head House vicinity, which exhibited hexavalent chromium at a concentration exceeding 3,200 ug/L during well development activities. This concentration is consistent with that previously observed at former well 199-K-195 in the same general location (see Figure K-2, below). This condition likely indicates a continued contribution of hexavalent chromium from a secondary source within the vadose zone in this area.
 - Strontium-90 continues to exhibit an increasing trend in extraction well 199-K-141 (see Figure K-3, below). We continue to monitor this condition which appears to result from ongoing down gradient migration of strontium-90 from the vicinity of the 116-KE-3 Fuel Storage Basin Crib/Reverse Well.

**100/300 Areas Unit Managers Meeting
July 10, 2014**

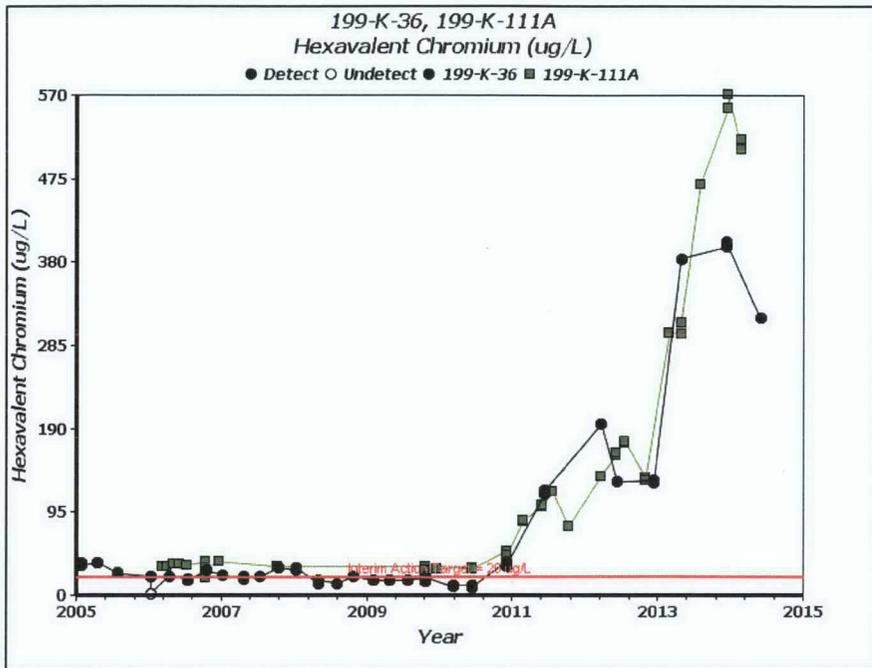


Figure K-1. Hexavalent Chromium Time Series in Wells 199-K-36 and 199-K-111A.

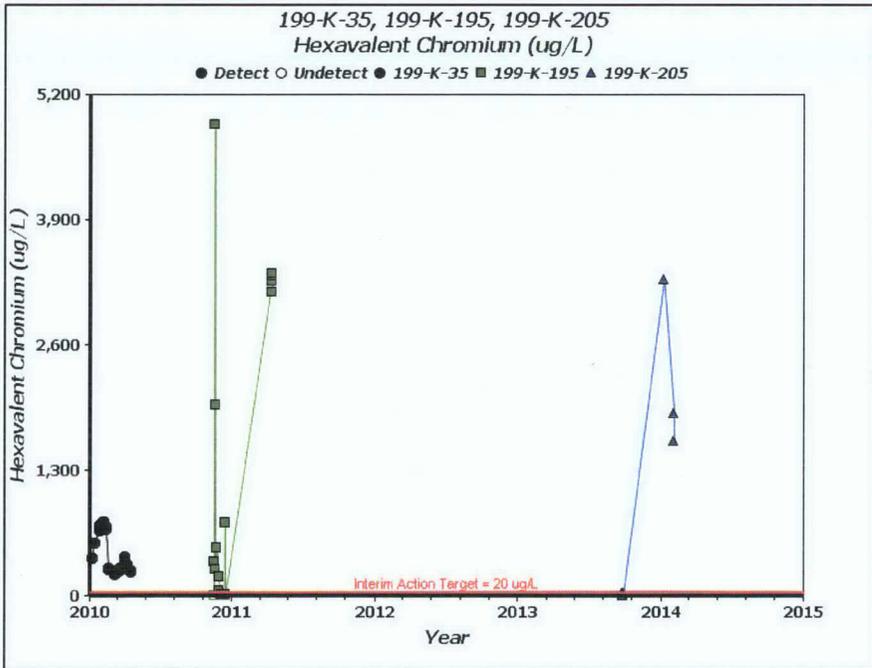


Figure K-2. Hexavalent Chromium in New Well 199-K-205 and Two Decommissioned Wells in the Vicinity of KW Head House.

100/300 Areas Unit Managers Meeting
July 10, 2014

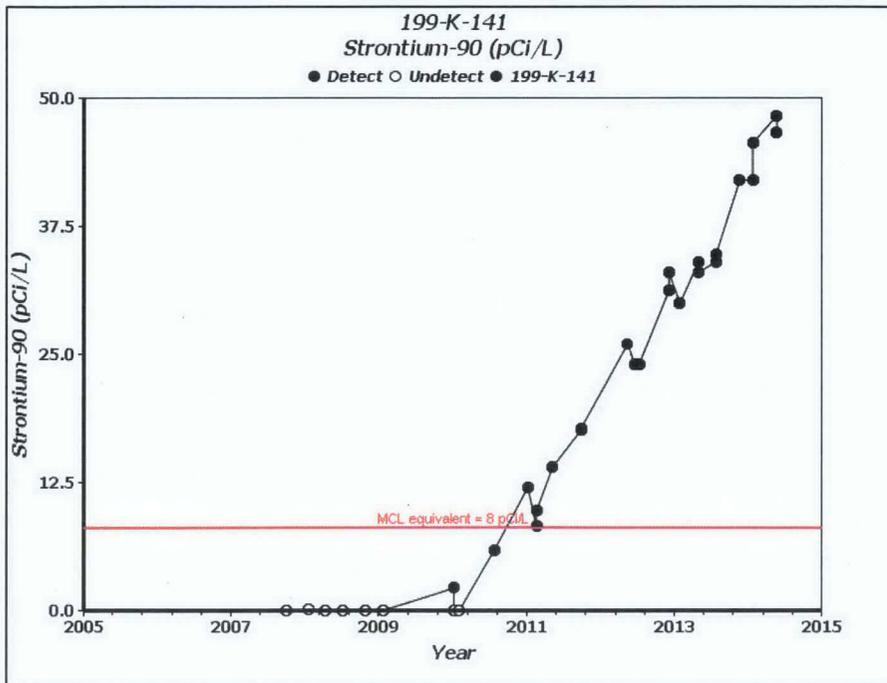


Figure K-3. Strontium-90 Time Series in Well 199-K-141.

**100/300 Areas Unit Managers Meeting
July 10, 2014**

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

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

- CERCLA Process Implementation
 - Monitoring of natural attenuation parameters in groundwater and the interaction of groundwater to the Columbia River continues.
 - On June 18, 2014, the team held a conference call with EPA to discuss the results of recent groundwater monitoring for natural attenuation parameters, the results and path forward of hexavalent chromium isotopic studies, and the monitoring results of the hyporheic zone sampling. A decision was made to continue the isotopic studies and where feasible repair three of the fourteen hyporheic sampling points. During low river stage the conventional aquifer tubes will be modified to extend sampling tubing up the river bank to allow collection of samples during high river and where necessary, supplement the hyporheic sampling.
- Monitoring & Reporting
 - Fourteen hyporheic sampling points (HSPs) were sampled for Cr(VI) in June; 11 of the 14 half-meter HSPs and all 3 of the one-meter HSPs. As previously reported, 3 of the half-meter HSPs are broken and we are looking into options for repair or replacement.
 - As illustrated in Figure BC-1, river stage during the June sampling event was lower than in May.
 - Figures BC-2 and BC-3 illustrate specific conductance and Cr(VI) in June 2014 compared to May 2014, April 2014 and December 2013. Only one HSP (C8855) had Cr(VI) concentration above the 8 µg/L detection limit in June. The concentration was 23 µg/L, which is comparable to the upper range of values detected in this HSP in November and December 2013.
 - Thirteen monitoring wells were sampled in June. Twelve wells are scheduled for sampling in July, including the eight new wells.

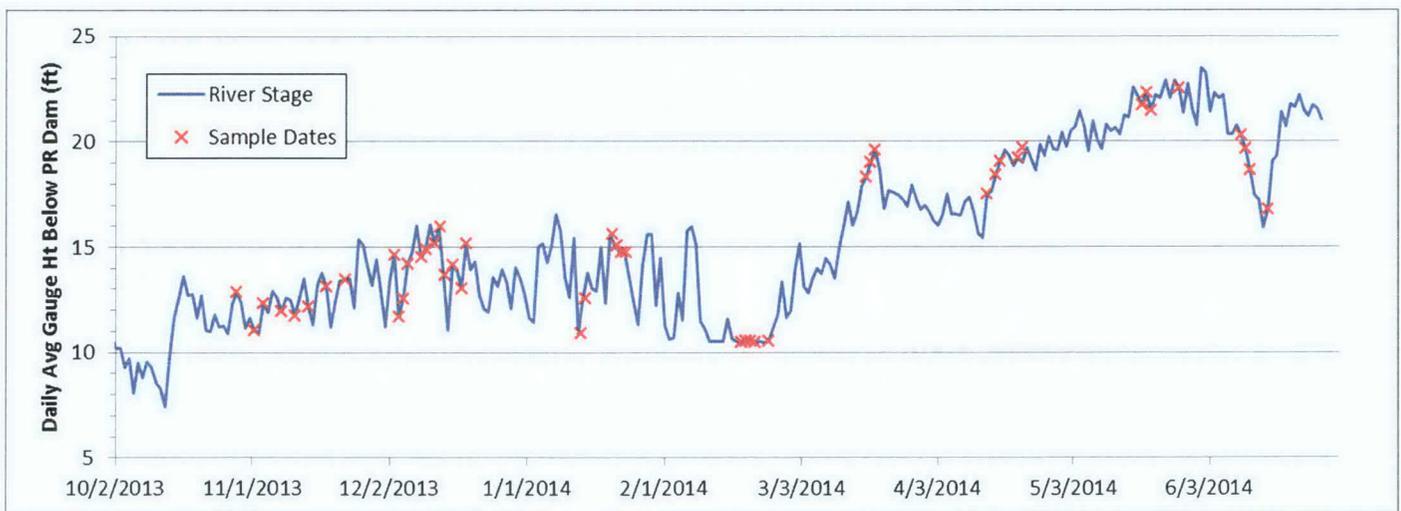


Figure BC-1. Daily Average River Stage Below Priest Rapids Dam and 100-BC HSP Sample Dates

**100/300 Areas Unit Managers Meeting
July 10, 2014**

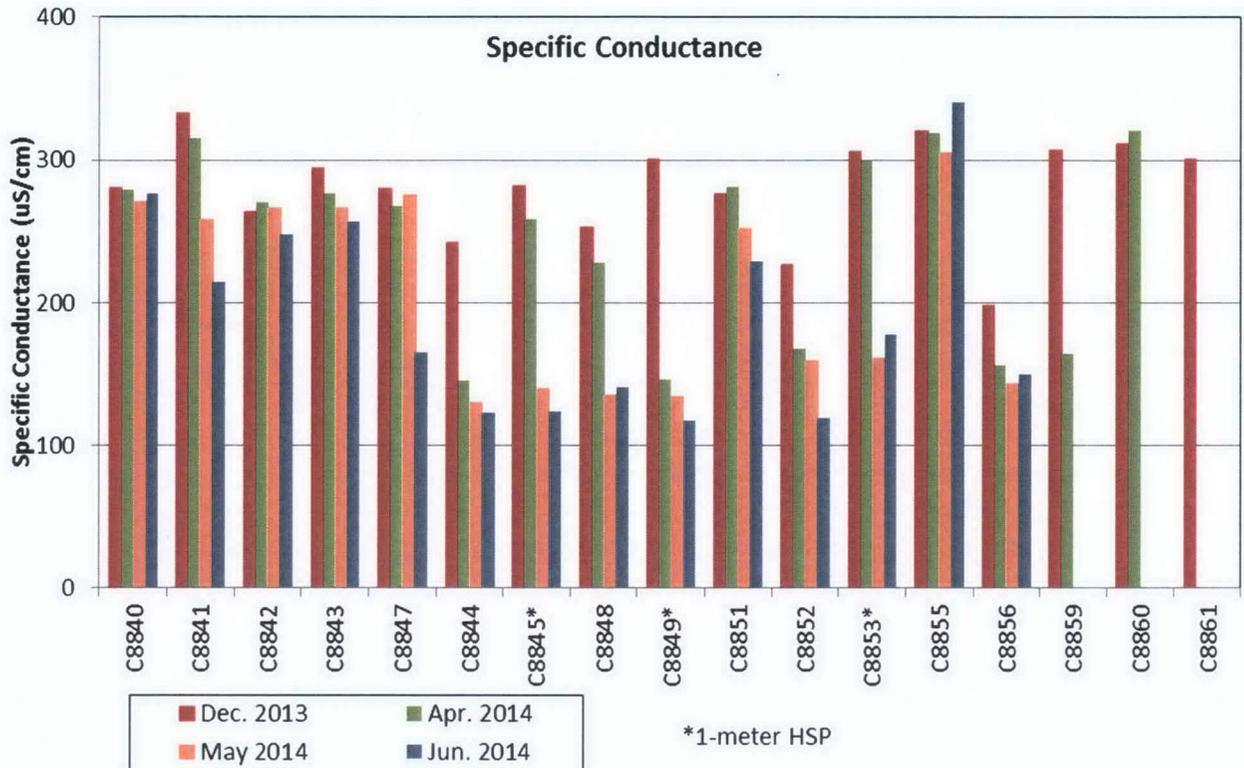


Figure BC-2. Specific Conductance in 100-BC Hyporheic Sampling Points.

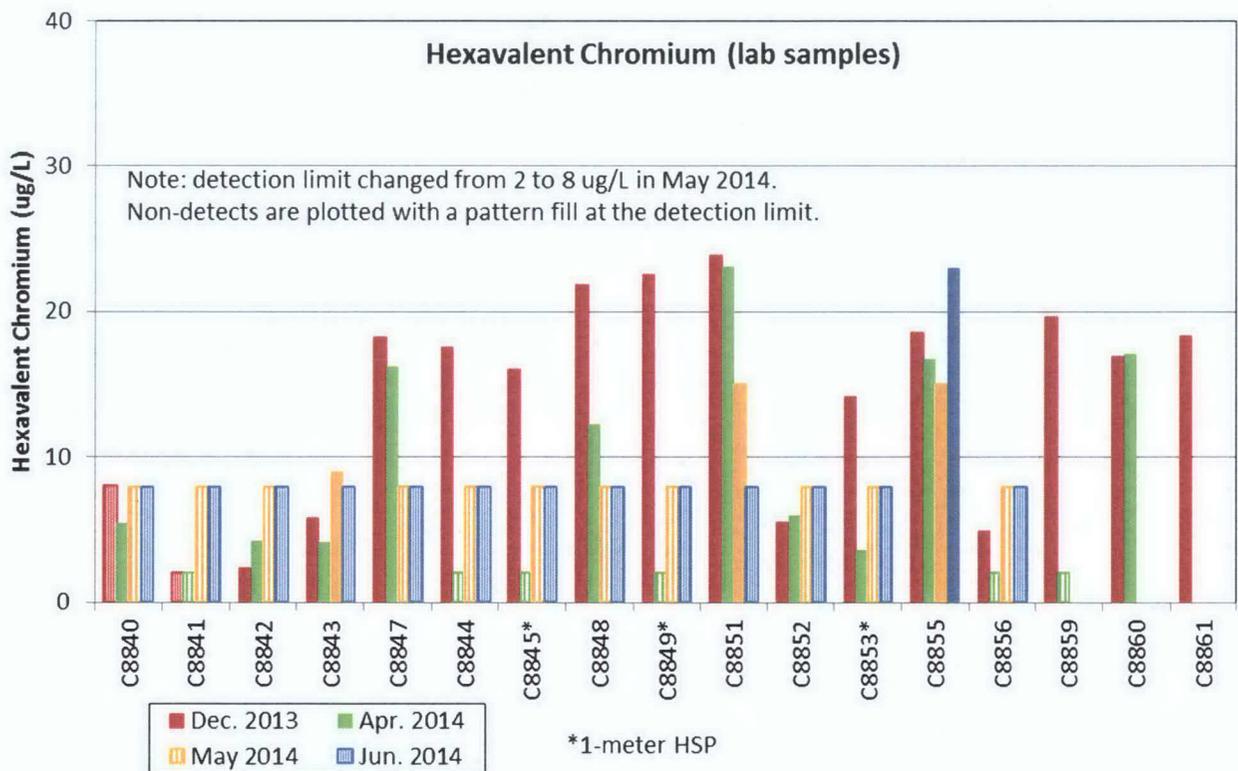


Figure BC-3. Hexavalent Chromium in 100-BC Hyporheic Sampling Points.

**100/300 Areas Unit Managers Meeting
July 10, 2014**

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

- CERCLA Process Implementation:
 - The Draft A RI/FS Report (DOE/RL-2012-15) and Proposed Plan (DOE/RL-2012-68) were transmitted to Ecology on June 24, 2013 completing TPA milestone M-015-75. Ecology comments on the RI/FS report were received on October 2, 2013. Preliminary responses and redline changes have been prepared to the majority of Ecology's comments for Chapters 1 through 8.
 - Ecology comments on Rev. 1, Draft A of the Remedial Design/Remedial Action Work Plan (DOE/RL-2001-27) were received on June 19, 2014. Preliminary responses and redline changes are being prepared.
- Monitoring & Reporting:
 - The next groundwater sampling event for aquifer tubes C7934, C7935, and C7936 is scheduled for September. All samples have been collected at the three CERCLA monitoring wells and the 47 apatite barrier monitoring wells and aquifer tubes scheduled for sampling in June. The next groundwater sampling event for CERCLA, including the apatite barrier, and RCRA sampling is scheduled for September 2014.
 - The PRB injection work scheduled for 2014 is currently on hold pending an MOA with the YN Tribe regarding cultural mitigation efforts.

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

- CERCLA Process Implementation:
 - RI/FS: Comment resolution is planned to be complete by July 14, 2014. That will close more than 700 comments to the RI/FS.
 - PP: The draft Rev. 0 of the PP was provided to Ecology on June 25, 2014 to begin their legal review. EPA's response on the National Remedy Review Board waiver for the 100 D/H Operable Units Proposed Plan is expected by mid-July, 2014.
 - RD/RAWP, Monitoring Plan, and Operations and Maintenance (O&M) Plan: The O&M Plan and Monitoring Plan were reviewed by RL's SAP Review Panel. The project is continuing to meet with the Panel to further refine the SAP for HR-3.
- Remedial Actions and System Modifications
 - Operations continue at DX and HX pump-and-treat system. June 2014 performance:
 - The systems treated 60.36 million gallons
 - The system removed 14.02 kg of hexavalent chromium.
 - Extraction wells 199-D5-153 and 199-D5-146 are now operational. In addition, injection well 199-D5-148 is also operational with just over 100 gpm being injected.
- Monitoring & Reporting
 - The 100-D-100 draft letter report was submitted to DOE for review on June 24, 2014.

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

- CERCLA Process Implementation:
 - The public review period is underway, which began on June 9, 2014 and ends on August 11, 2014. The public meeting is scheduled for July 23, 2014, in Hood River, Oregon.
 - Preparation of the ROD and Responsiveness Summary is scheduled to occur from June to September, with the ROD planned to be issued in September 2014.
- Monitoring & Reporting: Nothing to report.

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

**100/300 Areas Unit Managers Meeting
July 10, 2014**

- CERCLA Process Implementation:
 - EPA currently reviewing the Integrated Remedial Design Report/Remedial Action Work Plan, DOE/RL-2014-13, Draft A, and associated Addenda 1 & 2; comments were due on July 6, 2014
 - Delivered *Sampling Instructions for the 300-FF-5 Operable Unit Supplemental Post-ROD Field Investigations* (SGW-56993), Draft A, for EPA review on June 17, 2014. Received EPA comments on July 3, 2014.
 - DOE submitted Cultural Resources Review to State Historic Preservation Officer on June 12, 2014; written response anticipated no later than July 11, 2014
- Monitoring & Reporting
 - 300 Area Industrial Complex: As of July 2, all but two samples had been collected at the 47 wells scheduled for sampling in June. The next sampling event is scheduled for September.
 - 340 Vault Area: As of July 2, all samples had been collected at the seven wells scheduled for sampling in June. The next sampling event is scheduled for September.
 - 618-11 Burial Ground: Nothing new to report. The next sampling event is scheduled for July.
 - 618-10 Burial Ground/316-4 Crib: As of July 2, three samples had been collected at the five wells scheduled for sampling in June. The next sampling event is scheduled for September.
 - 300 Area Process Trenches (316-5) RCRA Monitoring: As of July 2, all samples had been collected at the eight wells scheduled for sampling in June. The next sampling event is scheduled for July.
 - 300 Area Aquifer Tubes: Nothing new to report.

**100/300 Areas Unit Managers Meeting
July 10, 2014**

Information Tables for Groundwater Sampling

Table 1. Wells, Aquifer Tubes and springs in the River Corridor Successfully Sampled in June 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-B2-14		199-D2-11	199-H1-1	199-K-106A	199-K-131	699-S30-E15A	399-1-1
199-B2-16		199-D2-11	199-H1-2	199-K-11	199-K-150		399-1-10A
199-B3-1		199-D3-2	199-H1-25	199-K-132	199-N-122		399-1-10B
199-B3-46		199-D3-5	199-H1-27	199-K-146	199-N-123		399-1-11
199-B3-47		199-D4-22	199-H1-3	199-K-161	199-N-146		399-1-12
199-B3-50		199-D4-23	199-H1-32	199-K-182	199-N-147		399-1-15
199-B4-1		199-D4-62	199-H1-33	199-K-192	199-N-165		399-1-16A
199-B4-14		199-D5-103	199-H1-34	199-K-194	199-N-173		399-1-16B
199-B4-8		199-D5-103	199-H1-35	199-K-197	199-N-173		399-1-17A
199-B5-1		199-D5-104	199-H1-36	199-K-200	199-N-185		399-1-17B
199-B5-2		199-D5-106	199-H1-37		199-N-187		399-1-18A
199-B5-5		199-D5-106	199-H1-38		199-N-188		399-1-18B
199-B8-6		199-D5-123	199-H1-39		199-N-200		399-1-2
199-B9-3		199-D5-125	199-H1-4		199-N-201		399-1-21A
C8840		199-D5-126	199-H1-40		199-N-210		399-1-21B
C8841		199-D5-127	199-H1-42		199-N-333		399-1-57
C8842		199-D5-132	199-H1-43		199-N-342		399-1-59
C8843		199-D5-133	199-H1-45		199-N-343		399-1-6
C8844		199-D5-143	199-H1-6		199-N-346		399-1-7
C8845		199-D5-145	199-H3-2A		199-N-347		399-1-8
C8847		199-D5-145	199-H3-2C		199-N-348		399-2-1
C8848		199-D5-146	199-H3-4		199-N-349		399-2-2
C8849		199-D5-147	199-H3-9		199-N-350		399-2-32
C8851		199-D5-15	199-H4-10		199-N-351		399-2-5
C8852		199-D5-16	199-H4-12C		199-N-352		399-3-1
C8853		199-D5-17	199-H4-13		199-N-353		399-3-10
C8855		199-D5-18	199-H4-15A		199-N-354		399-3-12
C8856		199-D5-19	199-H4-4		199-N-355		399-3-18
		199-D5-34	199-H4-45		199-N-356		399-3-19
		199-D5-34	199-H4-5		199-N-357		399-3-2
		199-D5-38	199-H4-63		199-N-358		399-3-20
		199-D5-39	199-H4-64		199-N-359		399-3-22
		199-D5-40	199-H4-69		199-N-360		399-3-33
		199-D5-41	199-H4-70		199-N-361		399-3-34
		199-D5-43	199-H4-75		199-N-362		399-3-38
		199-D5-97	199-H4-76		199-N-363		399-3-6
		199-D5-97	199-H4-77		199-N-364		399-3-9
		199-D6-3	199-H4-84		199-N-365		399-4-1
		199-D8-5	199-H4-90		199-N-366		399-4-10

**100/300 Areas Unit Managers Meeting
July 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-D8-53	199-H4-91		199-N-367		399-4-12
		199-D8-54B	699-94-41		199-N-41		399-4-14
		199-D8-68	699-94-43		199-N-71		399-4-15
		199-D8-69	699-95-45		199-N-92A		399-4-7
		199-D8-70	699-97-41		199-N-96A		399-5-4B
		199-D8-71	699-98-46		199-N-96A		399-6-3
		199-D8-72	699-99-41		199-N-99A		399-8-5A
		199-H1-5	699-99-44		APT1		699-13-1C
		199-H4-80			APT5		699-S6-E4A
		199-H4-81			C6132		699-S6-E4E
		199-H4-82			C6324		699-S6-E4K
		699-93-48A			C7881		
		699-95-48			N116mArray-0A		
		699-95-51			N116mArray-10A		
		699-96-52B			N116mArray-11A		
		699-97-51A			N116mArray-15A		
		699-98-49A			N116mArray-2A		
		699-98-51			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		

**100/300 Areas Unit Managers Meeting
July 10, 2014**

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

GWIA	SAMP_SITE_TYPE	SITE_NAME	SCHEDULE_DATE	Sample Status Comment	
100-BC-5	PROPOSED AQUIFER TUBE	C8859	5/1/2014	Unsuccessful	
	PROPOSED AQUIFER TUBE	C8860	5/1/2014	Unsuccessful	
100-HR-3-D	WELL	199-D4-14	6/1/2014	Quarterly	
	WELL	199-D4-25	6/1/2014	Quarterly	
	WELL	199-D4-38	6/1/2014	Quarterly	
	WELL	199-D5-142	5/1/2014	Quarterly	
	WELL	199-D8-54A	6/1/2014	Quarterly	
	WELL	199-D8-6	4/1/2014	Quarterly	
	WELL	199-D8-73	6/1/2014	Quarterly	
100-KR-4	WELL	199-D8-88	6/1/2014	Quarterly	
	WELL	199-K-120A	5/1/2014	Biannual	
	WELL	199-K-127	5/1/2014	Biannual	
	WELL	199-K-153	5/1/2014	Biannual	
	WELL	199-K-154	5/1/2014	Biannual	
	WELL	199-K-163	5/1/2014	Biannual	
100-NR-2	WELL	199-K-171	5/1/2014	Biannual	
	WELL	199-N-186	6/1/2014	Quarterly	
	300-FF-5	WELL	399-1-2	12/1/2013	Access Restricted
		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		399-4-9	6/1/2014	Unsuccessful	
WELL		399-5-4B	6/1/2014	Quarterly	
WELL		699-S11-E12AP	6/1/2014	Annual	
WELL		699-S6-E4B	12/1/2013	Maintenance Required	
WELL		699-S6-E4B	6/1/2014	Maintenance Required	
WELL	699-S6-E4L	6/1/2014	Quarterly		

**100/300 Areas Unit Managers Meeting
July 10, 2014**

Table 3. Groundwater Sampling Locations in the River Corridor Scheduled to be Sampled in July 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-H4-6	199-K-117A	199-K-150		399-1-10A
199-B4-16		199-D2-11	199-H4-84	199-K-166			399-1-10B
199-B4-18		199-D4-19	699-100-43B	199-K-173			399-1-16A
199-B4-7		199-D4-26	699-101-45	199-K-18			399-1-16B
199-B5-10		199-D4-86		199-K-20			399-1-17A
199-B5-11		199-D4-92		199-K-34			399-1-17B
199-B5-12		199-D4-93		C7641			399-1-18A
199-B5-13		199-D4-95		C7642			399-1-18B
199-B5-14		199-D4-96		C7643			699-12-2C
199-B5-6		199-D4-97					699-13-2D
199-B5-9		199-D4-98					699-13-3A
199-B8-9		199-D4-99					
C8840		199-D5-101					
C8841		199-D5-103					
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					
		199-D5-133					
		199-D5-133					
		199-D5-14					
		199-D5-145					
		199-D5-145					
		199-D5-145					
		199-D5-146					
		199-D5-146					
		199-D5-146					
		199-D5-20					
		199-D5-32					
		199-D5-33					
		199-D5-34					
		199-D5-34					
		199-D5-34					

**100/300 Areas Unit Managers Meeting
July 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-D5-36					
		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					

Attachment 2

**100K Area Unit Managers Meeting
July 10, 2014**

RL-0012 Sludge Treatment Project

TPA Milestone **M-016-175**, *Begin Sludge Removal from 105-KW Fuel Storage Basin (9/30/14)* – To Be Missed

- ECRTS process component procurements continue.
- 105-K West Basin Annex structural steel, roof decking installation, and roof concrete placement is in-progress. A surveillance of the 105-K West Basin Annex HEPA Filtration System Factory Acceptance Test was performed at the Flanders facility.
- The in-basin ECRTS construction contractor has begun removing legacy equipment and preparing to install ECRTS process related equipment.
- The Integrated Process Optimization Demonstration continues at MASF. STSC overflow recovery evolutions are in-progress. Nuclear Chemical Operations are taking part in the evolutions for training purposes.
- DOE-RL letter #14-AMRP-0214, dated June 12, 2014, notified EPA that this milestone will be missed. The letter was accompanied by a draft change control form, indicating that a revised schedule for sludge removal will be provided to EPA by September 30, 2014, based on the President's 2015 budget proposal.

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 to facilitate future deactivation continued. Such activities include preparation for below-water debris relocation to clear the ECRTS footprint, debris dose rate measurement and characterization, and IWTS garnet filter and Skimmer System sand filter media characterization.
- 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

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

Other Information and Status Updates

- No demolition or soil remediation activities were conducted at 100K during May.
- 105-KE Roof Repairs. Repairs were completed on the damaged portions of the roof as planned. The repaired portions were sealed, along with other various damaged sections of the roof, with a Class A foam and coating on June 18th. The Contractor demobilized from the site on the 19th. The work was satisfactorily completed without incident during the reporting period.
- 105-KW Roof Improvements. The 105-KW roof improvements will follow the 105-KE Repairs as funding and resources become available.
- 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 have been written and submitted for RL and regulator review. Field work planning and design is over 50% complete.
- Disposition of found fuel pieces at KW Basins. RL has provided a proposed plan to EPA to use six pieces of fuel discovered during K West Basin sludge level measurement for STP Phase 2 technology testing. The testing to be performed at PNNL includes size reduction and oxidation, and is expected to consume the fuel pieces.

Attachment 3

July 10, 2014 Unit Manager's Meeting
Closure Operations Status

100-B/C

- Completed relocation and disposal at ERDF of MO-474
- Continued exit item removal activities

100-D

- Continued remediation and stockpiling activities at 100-D-85:2 and 100-D-86:1
- 100-D-86:3 and 147-D (ISRM Pond) require additional excavation to chase plumes
- Continued load-out of stockpile areas to ERDF

100-H

- Continued load-out of stockpile areas to ERDF

100-N

- Continued system operations for in-situ bioremediation system for UPR-100-N-17, deep vadose zone remediation;
- Continued bioremediation respirometry testing and data evaluation
- Completed and received DOE and regulator approval on the Operations & Maintenance Manual for in-situ bioremediation system operation
- Continued preparation of closure documents
- Continued backfill of closed out waste sites

618-10 Trench Remediation

- Continued excavation and sorting of trench area
- Continued waste load out
- Continued drum characterization & handling activities
- Evaluating results of VPU mockup testing

100-IU-2/6

- Continued UXO removal activities at 600-349
- Commenced an engineered design to excavate a portion of 600-20 deeper than 20' based on in-process samples at 18' deep showing Diesel contamination continuing deeper.
- Graded access roads to the 600-358 sites in preparation for future remediation.

Attachment 4

176474

^WCH Document Control

From: Saueressig, Daniel G
Sent: Wednesday, July 09, 2014 2:36 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: Buelow, Laura [mailto:Buelow.Laura@epa.gov]
Sent: Wednesday, July 09, 2014 2:03 PM
To: Saueressig, Daniel G; Guzzetti, Christopher
Cc: Post, Thomas C; Strom, Dean N
Subject: RE: 100-K CTA

Dan and Tom,

I agree with the path forward.

Laura

From: Saueressig, Daniel G [mailto:daniel.saueressig@wch-rcc.com]
Sent: Tuesday, July 08, 2014 4:42 PM
To: Buelow, Laura; Guzzetti, Christopher
Cc: Post, Thomas C; Strom, Dean N
Subject: RE: 100-K CTA

Laura, we'd like to close the CTA soon as plans are to send the 100-B-35 waste to ERDF with MHVs so a CTA won't be needed. I performed a visual inspection of the CTA last week and didn't see any staining besides darker areas most likely attributable to past magnesium chloride applications. In addition, radcon surveyed and downposted the area from a radiological perspective.

We'd like to use the material as bedding while remediating 100-B-35 so it will all end up at ERDF anyway. Let me know if you have any concerns.

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

From: Buelow, Laura [mailto:Buelow.Laura@epa.gov]
Sent: Monday, June 30, 2014 1:08 PM
To: Saueressig, Daniel G; Guzzetti, Christopher
Cc: Post, Thomas C
Subject: RE: 100-K CTA

7/9/2014

Dan,

When will the CTA be closed? After 100-B-35 has been sampled? I assume that we still need the CTA while 100-B-35 is being remediated. Let me know if that is not the case.

I agree that we should follow the same process as 100-K.

Laura

From: Saueressig, Daniel G [<mailto:daniel.saueressig@wch-rcc.com>]
Sent: Thursday, June 26, 2014 12:18 PM
To: Guzzetti, Christopher; Buelow, Laura
Cc: Post, Thomas C
Subject: RE: 100-K CTA

Chris/Laura, consistent with how the 100-K CTA was closed, WCH would like to close the 100-B/C CTA in a similar manner. We plan to visually inspect the area for staining and survey the area prior to stockpiling the material for future use. Current plans are to use some of the material as bedding for the 100-B-35 electrical substation during remediation of the site. Any remaining material would be offered to other contractors for use in maintenance of various perimeter roads.

Let me know if you concur and give me a call if you have any questions.

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

7/9/2014

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



Attachment 5

Activity ID	Activity Name	RD	Start	Finish	2014							2015						
					% Cmpl	16	23	30	07	14	21	28	04	11	18	25	01	08

FY13 CPP 100-N AREA CURRENT

Excavation

NB5B8A	Excavation - 100-N-84:6 (12,721 BCM)	1	10-Apr-13 A	23-Jun-14	27%														
NB5B4D08	Excavation over IPB - 100-N-84:2 (20,819 BCM)	0	17-Apr-13 A	23-Jun-14	99%														
NB5B7A	Excavation - 100-N-84:5 (39,722 BCM)	2	03-Jul-13 A	24-Jun-14	34%														
NB5B1A	Excavation - 100-N-81 (690 BCM)	0	22-Oct-13 A	23-Jun-14	99%														
NB590A	Excavation - 100-N-91 (4.05 BCM)	0	12-Nov-13 A	23-Jun-14	99%														
NB5093A	Excavation - 100-N-97 (10.09 BCM)	1	12-Nov-13 A	23-Jun-14	99%														
NB595A	Excavation - 100-N-100 (89.58 BCM)	1	13-Nov-13 A	23-Jun-14	99%														
NB5B6A	Excavation - 100-N-84:4 (8,348 BCM)	2	02-Dec-13 A	24-Jun-14	49%														
NB591A	Excavation - 100-N-94 (51.34 BCM)	1	31-Jan-14 A	24-Jun-14	99%														
NB594A	Excavation - 100-N-99 (40.33 BCM)	1	31-Jan-14 A	24-Jun-14	99%														
NB5C7A	Excavation - 100-N-104 (49 BCM)	0	12-Mar-14 A	23-Jun-14	99%														
NB583A	Excavation - 100-N-82	0	24-Mar-14 A	23-Jun-14	99%														
NB5C3A	Excavation - 100-N-96 (2600 BCM)	6	01-Oct-14*	09-Oct-14	0%														
NB5B2A	Excavation - 100-N-83 (20,659 BCM)	30	13-Oct-14	04-Dec-14	0%														
NB5B6A60	Design - 100-N-107 (Final ROD)	55	01-Oct-15*	13-Jan-16	0%														
NB5B6A10	Excavation - 100-N-107 (Final ROD)	16	09-Jun-16	07-Jul-16	0%														

Loadout

NB5B8B	Loadout - 100-N-84:6 (27,987 UST)	1	10-Apr-13 A	23-Jun-14	27%														
NB5B4D09	Loadout over IPB - 100-N-84:2 (45,800 UST)	2	17-Apr-13 A	24-Jun-14	99%														
NB5B7B	Loadout - 100-N-84:5 (87,389 UST)	2	11-Jul-13 A	24-Jun-14	34%														
NB584D10	Loadout - 100-N-54 (500 UST)	1	04-Nov-13 A	23-Jun-14	99%														
NB590B	Loadout - 100-N-91 (0.71 UST)	1	12-Nov-13 A	23-Jun-14	99%														
NB5093B	Loadout - 100-N-97 (5.94 UST)	1	12-Nov-13 A	23-Jun-14	99%														
NB595B	Loadout - 100-N-100 (49.5 UST)	1	13-Nov-13 A	23-Jun-14	99%														
NB5B6B	Loadout - 100-N-84:4 (18,366 UST)	2	02-Dec-13 A	24-Jun-14	49%														
NB591B	Loadout - 100-N-94 (49.5 UST)	1	31-Jan-14 A	24-Jun-14	99%														
NB594B	Loadout - 100-N-99 (42.1 UST)	1	31-Jan-14 A	24-Jun-14	99%														
NB5C7B	Loadout - 100-N-104 (108 UST)	0	12-Mar-14 A	23-Jun-14	99%														
NB583B	Loadout - 100-N-82	0	24-Mar-14 A	23-Jun-14	99%														
NB5C3B	Loadout - 100-N-96 (2,943 UST)	6	01-Oct-14	09-Oct-14	0%														
NB5B2B	Loadout - 100-N-83 (45,451 UST)	30	13-Oct-14	04-Dec-14	0%														
NB5B6A20	Loadout - 100-N-107 (Final ROD)	16	09-Jun-16	07-Jul-16	0%														

Backfill

NB525C	Backfill - 100-N-61 (incl 100-N-64) 112,271 BCMs	20	20-Jan-14 A	28-Jul-14	20%														
NB578C10	Backfill - 100-N-63	8	27-Jan-14 A	07-Jul-14	87%														
NB528C	Backfill - 116-N-2	3	05-Feb-14 A	25-Jun-14	99%														
NB578C30	Backfill - 100-N-63 (39,518 BCMs)	5	23-Jun-14*	30-Jun-14	0%														

■ Actual Work
 ◆ Milestone
 ◆ Actual Milestone
 ■ Remaining Work
 ■ % Complete

Data Date: 23-Jun-14

Page 1 of 4

Activity ID	Activity Name	% Cmpl	RD	Start	Finish	2014				2015										
						16	23	30	07	14	21	28	04	11	18	25	01	08	15	
NB578C20	Backfill - 100-N-63 AUW	0%	10	23-Jun-14	09-Jul-14															
NB537C	Backfill - 124-N-3 (0 BCMs)	0%	1	23-Jun-14	23-Jun-14															
NB517C	Backfill - 100-N-36 (0 BCMs)	0%	1	23-Jun-14	23-Jun-14															
NB528C10	Backfill - 116-N-2 (12,010 BCMs)	0%	2	01-Jul-14	02-Jul-14															
NB560C	Backfill - UPR-100-N-25 (0 BCMs)	0%	1	01-Jul-14	01-Jul-14															
NB565C	Backfill - UPR-100-N-31 (5,872 BCMs)	0%	1	01-Jul-14	01-Jul-14															
NB570C	Backfill - UPR-100-N-4 (63 BCMs)	0%	1	01-Jul-14	01-Jul-14															
NB539C	Backfill - 124-N-9 (0 BCMs)	0%	1	01-Jul-14	01-Jul-14															
NB576C	Backfill - UPR-100-N-8 (28 BCMs)	0%	1	01-Jul-14	01-Jul-14															
NB573C	Backfill - UPR-100-N-5 (0 BCMs)	0%	1	01-Jul-14	01-Jul-14															
NB535C	Backfill - 124-N-10 (9,978 BCMs)	0%	1	01-Jul-14	01-Jul-14															
NB541C	Backfill - 130-N-1 (10,000 BCMs)	0%	2	02-Jul-14	07-Jul-14															
NB568C10	Backfill - UPR-100-N-36 AUW	0%	2	08-Jul-14	09-Jul-14															
NB568C	Backfill - UPR-100-N-36 (8,153 BCMs)	0%	2	08-Jul-14	09-Jul-14															
NB529C	Backfill - 116-N-4 (5,951 BCMs)	0%	1	10-Jul-14	10-Jul-14															
NB545C	Backfill - UPR-100-N-1 (0 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															
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															
NB562C	Backfill - UPR-100-N-29 (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															
NB577C	Backfill - UPR-100-N-9 (0 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															
NB567C	Backfill - UPR-100-N-35 (170 BCMs)	0%	1	15-Jul-14	15-Jul-14															
NB531C	Backfill - 118-N-1 (11,549 BCMs)	0%	2	16-Jul-14	17-Jul-14															
NB536C	Backfill - 124-N-2 (1,554 BCMs)	0%	1	21-Jul-14	21-Jul-14															
NB542C	Backfill - 1908-N (0 BCMs)	0%	1	21-Jul-14	21-Jul-14															
NB587C	Backfill - 100-N-79 (672.58 BCM)	0%	1	21-Jul-14	21-Jul-14															
NB5C1C	Backfill - 100-N-84:8 (0 BCM)	0%	1	21-Jul-14	21-Jul-14															
NB592C	Backfill - 100-N-62 (3,563 BCM)	0%	1	22-Jul-14	22-Jul-14															
NB593C	Backfill - 100-N-28 (2,504 BCM)	0%	1	22-Jul-14	22-Jul-14															
NB508C	Backfill - 100-N-24 (0 BCMs)	0%	1	22-Jul-14	22-Jul-14															
NB586C	Backfill - 100-N-68 (0 BCM)	0%	1	23-Jul-14	23-Jul-14															
NB519C	Backfill - 100-N-38 (0 BCMs)	0%	1	23-Jul-14	23-Jul-14															
NB575C	Backfill - UPR-100-N-7 (0 BCMs)	0%	1	23-Jul-14	23-Jul-14															
NB511C	Backfill - 100-N-29 (0 BCMs)	0%	1	23-Jul-14	23-Jul-14															
NB512C	Backfill - 100-N-30 (0 BCMs)	0%	1	23-Jul-14	23-Jul-14															
NB518C	Backfill - 100-N-37 (0 BCMs)	0%	1	23-Jul-14	23-Jul-14															
NB513C	Backfill - 100-N-31 (0 BCMs)	0%	1	23-Jul-14	23-Jul-14															
NB525C21	Backfill - 100-N-61 (incl 100-N-64) 112,271 BCMs	0%	20	23-Jul-14	23-Jul-14															
NB525C11	Backfill - 100-N-61 (incl 100-N-64) AUW	0%	20	23-Jul-14*	26-Aug-14															

Data Date: 23-Jun-14
Page 2 of 4

Actual Work Milestone Actual Milestone
Remaining Work % Complete

Activity ID	Activity Name	% Cmpl	RD	Start	Finish	2014			July 2014			August 2014			September 2014		
						16	23		30	07	14	21	28	04	11	18	25
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												



Attachment 6

176313

^WCH Document Control

From: Saueressig, Daniel G
Sent: Monday, June 16, 2014 3:59 PM
To: ^WCH Document Control
Subject: FW: UPDATE 100-N-106 WIDS DESCRIPTION
Attachments: SPOR AGREEMENT.pdf; SPOR samples locations.ppt; 100-N-106 SPOR and additional locations.xls

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

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

From: Chance, Joanne C [mailto:joanne.chance@rl.doe.gov]
Sent: Monday, June 16, 2014 3:46 PM
To: Saueressig, Daniel G
Cc: Elliott, Wanda; Boyd, Alicia; Neath, John P
Subject: RE: UPDATE 100-N-106 WIDS DESCRIPTION

Hi Dan,

RL also concurs with the attached modifications to the WIDS description for the 100-N-106 Shallow Petroleum Only Releases waste site (SPOR) with the understanding/clarification that only the indicated failed sample locations are deferred to SPOR (not the entire shaded waste sites of the attached figure). In addition, RL concurs with the planned backfilling and revegetation of these SPOR locations during the current backfill campaign. Finally, please also document these changes to the SPOR agreement in UMM. 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, June 12, 2014 12:04 PM
To: Chance, Joanne C
Cc: Saueressig, Daniel G; Boyd, Alicia (ECY)
Subject: RE: UPDATE 100-N-106 WIDS DESCRIPTION

6/16/2014

Ecology basically concurs with the requests outlined below. Ecology approves of the update of the WIDS for this site. DOE understands that there is a possible risk associated with the backfilling and revegetation before having a final disposition, if at a later date the site needs to be remediated. At the current time Ecology sees no reason why backfill and revegetation cannot occur for this waste site while awaiting a final disposition in the ROD.

Let me know if you have any other questions regarding this issue,

Thanks,

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



From: Saueressig, Daniel G [<mailto:daniel.saueressig@wch-rcc.com>]
Sent: Wednesday, June 11, 2014 12:42 PM
To: Elliott, Wanda (ECY); Chance, Joanne C
Subject: UPDATE 100-N-106 WIDS DESCRIPTION
Importance: High

Wanda/Joanne, per our discussion at yesterday's interface, I'd like to request your approval to update the WIDS description for the 100-N-106 (SPOR) waste site due to changes in the size of the waste site since it was initially created. I've attached the original agreement (SPOR AGREEMENT) for your information. In addition, the PowerPoint file (SPOR sample locations) and the Excel spreadsheet (100-N-106 SPOR and additional locations) depict the updates I'm proposing to be included in the updated WIDS description. Below is a summary of the information, which will also be provided to the WIDS database coordinator based on your approval to this request.

Closure documents (Remaining Sites Verification Packages) for 5 waste sites deferred portions of the sites to 100-N-106 based on elevated TPH and PAH sample results. These 5 sites are 100-N-61:1, 100-N-61:2, 100-N-61:4, 100-N-63:2 and 120-N-3. The Excel spreadsheet lists the sample numbers for the various waste sites that had TPH/PAH failures and coincides with the information provided in the PowerPoint slide depicting the locations of the samples. The PowerPoint slide is also color coded to show which areas are tied to which waste sites. In addition, the original SPOR WIDS boundary is depicted on the slide in red. I had samples taken at numerous of these locations (SPOR-1 through SPOR-7 on the PowerPoint and in the Excel spreadsheet) and the sample results show that there is no contamination above remedial action goals. In addition, 2 original 100-N-

106 locations within the 100-N-63:2 boundary (shaded light purple) were removed with the expansion of the 100-N-84:2 excavation and the other one (furthest north) was confirmed to be in the deep zone (within the old 116-N-2, golf ball excavation) so it shouldn't be included as part of 100-N-106.

To summarize, I'd like to request your approval to update the WIDS description for 100-N-106 to include the sample data in the Excel spreadsheet and the drawing in the PowerPoint slide. The original WIDS boundary (depicted in red in the PowerPoint) would be removed from the WIDS description based on the favorable sample results, the fact that a couple area were removed with the expansion of 100-N-84:2 and the final area was confirmed to be in the deep zone. The Excel spreadsheet includes sample numbers which are included in the Hanford Environmental Information System (HEIS) database for future retrievability.

Also, one other note regarding the original SPOR agreement that created the 100-N-106. You'll notice that it states that at the end of the first paragraph that backfill and revegetation will be delayed until disposition of the SPOR site is complete. I believe everyone is in agreement that disposition of the 100-N-106 waste site will be addressed in the final ROD. In addition, I believe this updated information being included in the WIDS database is sufficient to allow the site to be addressed in the future even if the sites are backfilled. I'd like to request your concurrence to backfill these waste sites now since it is unknown when the final ROD for 100-N will be complete and we have resources available now to backfill the entire 100-N area.

Let me know if you concur and give me a call if you have any questions.

Thanks,

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

<< File: SPOR AGREEMENT.pdf >> << File: SPOR samples locations.ppt >> << File: 100-N-106 SPOR and additional locations.xls >>

167464**^WCH Document Control**

From: Saueressig, Daniel G
Sent: Wednesday, September 12, 2012 4:00 PM
To: ^WCH Document Control
Subject: FW: SPOR Agreement -- Concurrence needed ASAP please
Attachments: SPOR Agreement 082712__approved ECY.docx; Initial SPOR Discovery Sites 9-12-12.xls

Please provide a chron number (and include the attachments). This email documents a regulatory agreement and supersedes CCN 167273

Thanks,

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

From: Chance, Joanne C [mailto:joanne.chance@rl.gov]
Sent: Wednesday, September 12, 2012 1:53 PM
To: Elliott, Wanda; Saueressig, Daniel G
Cc: Boyd, Alicia; Landon, Roger J; Wilkinson, Stephen G
Subject: RE: SPOR Agreement -- Concurrence needed ASAP please

RL concurs.

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

From: Elliott, Wanda (ECY) [mailto:well461@ecy.wa.gov]
Sent: Wednesday, September 12, 2012 1:17 PM
To: Saueressig, Daniel G; Chance, Joanne C
Cc: Boyd, Alicia (ECY); Landon, Roger J; Wilkinson, Stephen G
Subject: RE: SPOR Agreement -- Concurrence needed ASAP please

Ecology concurs.

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

From: Saueressig, Daniel G [mailto:dgsauere@wch-rcc.com]
Sent: Wednesday, September 12, 2012 11:07 AM
To: Chance, Joanne C; Elliott, Wanda (ECY)

9/13/2012

Cc: Boyd, Alicia (ECY); Landon, Roger J; Wilkinson, Stephen G
Subject: FW: SPOR Agreement -- Concurrence needed ASAP please

Joanne/Wanda, verification sampling indicated that there was no TPH contamination associated with 100-N-25 so I'm planning to take it off the list of SPOR sites, with your concurrence. In addition, the table listing the SPOR sites was revised to include the HEIS numbers associated with the samples so that this information is available via WIDS when the site gets put into the database. Let me know if you concur and I'll get this agreement into the UMM meeting minutes tomorrow.

Thanks,

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

From: Chance, Joanne C [<mailto:joanne.chance@rl.gov>]
Sent: Tuesday, August 21, 2012 4:44 PM
To: Boyd, Alicia
Cc: Menard, Nina; Elliott, Wanda; 'Welsch, Kim (ECY) (KIWE461@ECY.WA.GOV)'; Saueressig, Daniel G; Buckmaster, Mark A; Ovink, Roger W; Thompson, Wendy S; Neath, John P
Subject: FW: SPOR Agreement -- Concurrence needed ASAP please

Hi Alicia,

RL accepts Ecology's edits to the SPOR Agreement and will submit it at the next UMM with the associated table of waste sites and this e-mail chain. Thanks once again for your help!

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: Boyd, Alicia (ECY) [<mailto:aboy461@ecy.wa.gov>]
Sent: Tuesday, August 21, 2012 1:50 PM
To: Chance, Joanne C
Cc: Menard, Nina (ECY); Elliott, Wanda (ECY); Welsch, Kim (ECY); Saueressig, Daniel G
Subject: RE: SPOR Agreement -- Concurrence needed ASAP please

Joanne/Dan

Ecology has made some minor changes to the SPOR Agreement. I don't believe there is anything problematic. I've attached the version with our edits to this e-mail. Please use the "review" function to see the "final show markup" version. If you concur with the changes, please print the "final" version for inclusion in the UMM. If we need to discuss any of the suggested changes, please give me a call.

Alicia L. Boyd
Washington State Department of Ecology
3100 Port of Benton Blvd

9/13/2012

Richland, WA 99352
509-372-7934

From: Chance, Joanne C [<mailto:joanne.chance@rl.gov>]
Sent: Tuesday, August 21, 2012 10:17 AM
To: Boyd, Alicia (ECY)
Cc: Menard, Nina (ECY); Elliott, Wanda (ECY); Welsch, Kim (ECY); Saueressig, Daniel G; Ovink, Roger W
Subject: SPOR Agreement -- Concurrence needed ASAP please
Importance: High

Hi Alicia,

Per my phone message this morning, would you have time to review the SPOR Agreement (e-mailed to you on August 14th) this week? RL requests e-mail concurrence this week (with ensuring documentation at the next UMM). We are nearing 'pens down' time on the 100-N RI/FS and we need to verify that Ecology is on board with this agreement so that it can be incorporated into the document, and just as importantly, our on-going fall remediation plans. I believe we have incorporated Ecology's review comments on the concept's white paper into the Agreement. Dan and I are available for questions today, and I have placed the matter on the Comment Resolution Agenda for tomorrow, if that facilitates your review. Thanks so much for your assistance with this matter.

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

100-N SHALLOW PETROLEUM-ONLY RELEASES (SPOR) WASTE SITE AGREEMENT BETWEEN ECOLOGY AND DOE-RL

The Washington State Department of Ecology (Ecology) and the U.S. Department of Energy, Richland Operations Office (DOE-RL) agree to initiate the Tri-Party Agreement MP-14 approval process for the creation of a Discovery Site to address recent unanticipated discoveries of shallow petroleum contamination at 100-N. The site shall be titled: "Shallow Petroleum-Only Releases" (SPOR) waste site and will initially consist of the petroleum contamination component of the waste site locations listed in the attached table entitled: "Initial SPOR Discovery Site." The first designation criterion for inclusion of a waste site in the table is the discovery during remediation activities of stains and/or elevated TPH or petroleum-derived PAH concentrations where petroleum contamination was not listed as a constituent of concern (COC) or a constituent of potential concern (COPC). Only sites for which the remove/treat/dispose (RTD) remedy is appropriate (for example, those from 0 to 20 feet in depth) are included in the SPOR waste site (second criterion). Remediation and interim closure of the listed sites will proceed for non-petroleum COCs and COPCs. However, backfill and revegetation will be delayed until disposition of the SPOR site is complete.

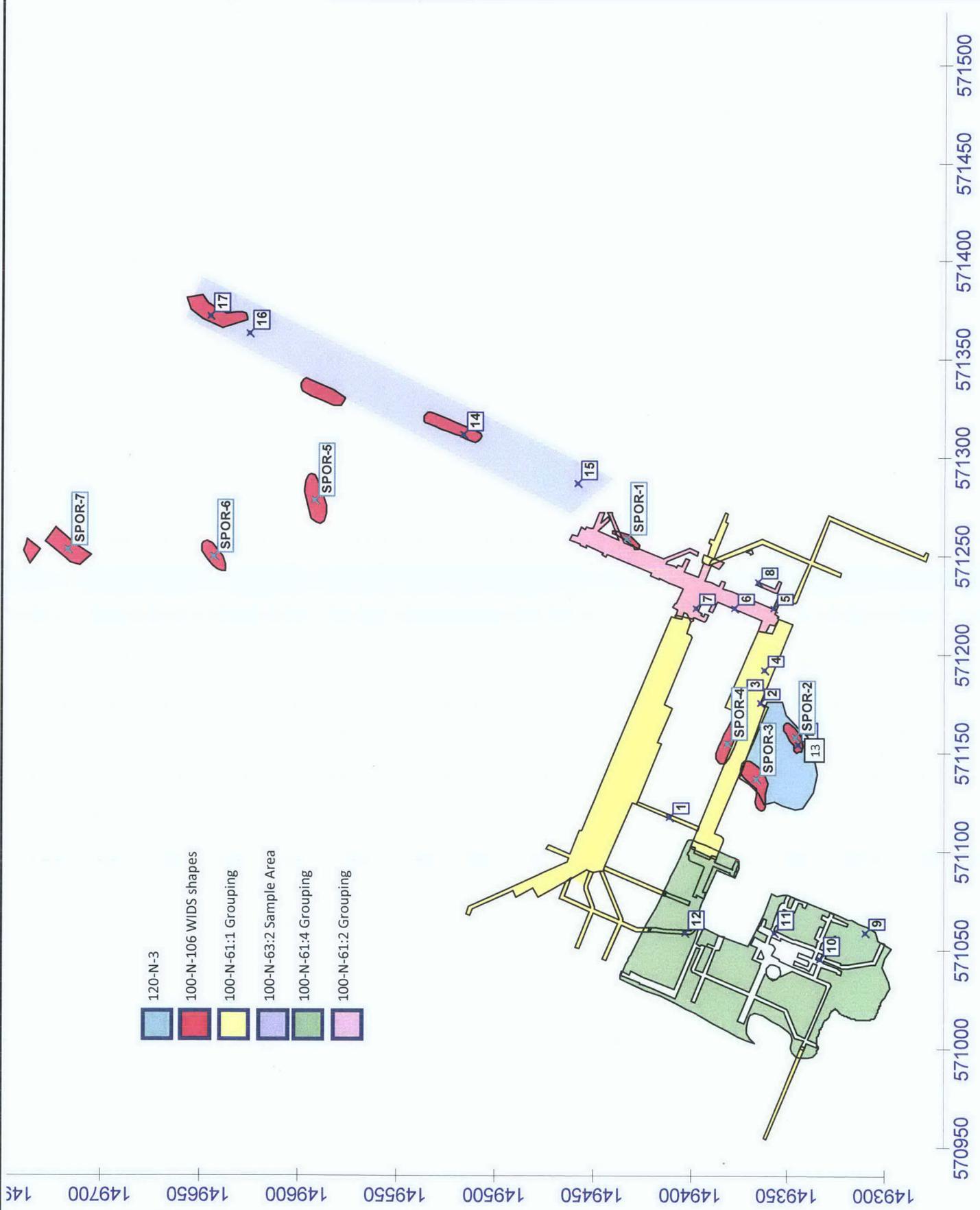
Future discoveries of petroleum contamination that meet the preceding two criteria will be added to the SPOR site (via colonization) upon the mutual agreement of Ecology and DOE-RL. The SPOR site will be evaluated for final disposition via the Remedial Investigation/Feasibility Study (RI/FS), Proposed Plan (PP), and the final ROD for 100-N. Ecology and DOE-RL technical staff will also develop a methodology to differentiate asphalt contamination from contamination resulting from petroleum release to facilitate site closures.

If petroleum contamination is found at depth (i.e., at the extent of excavation), further discussions will be held between Ecology and DOE-RL to identify the disposition (for example, bioventing, plume chasing, or evaluation under the final ROD) for such locations.

This Agreement can be amended upon mutual agreement between Ecology and DOE-RL as documented in UMM Minutes.

Initial SPOR Discovery Site

Collocated Waste Site Group #	Waste Site	Description	M-16-55 Milestone Completion 12/31/2012	Comments	HEIS Samples
1	116-N-2	1310-N Chemical Waste Storage Tank	Yes	Stain location on west end of 116-N-2 and stain indicate potential issue, further sampling required. (collocated sites whose backfill and revegetation depend on this site: UPR-100-N-5 and UPR-100-N-25)	None
2	100-N-61:1	100-N Water Treatment and Storage Facilities Underground Pipelines	No	Stain on side slopes of excavation and stain indicate potential issue, further sampling required. Backfill in some areas has been completed with Ecology approvals. (collocated sites whose backfill and revegetation depend on this site: 100-N-9, 100-N-28, 100-N-29, 100-N-30 and 100-N-37)	Verification samples J1R0J3, J1R0J5, and J1R0K5. In-process sample J1NLI9
2	100-N-64:1	105-N, 116-N-4 (1300-N), 1304-N, 107-N Underground Pipelines to 1908-N Outfall	Yes	No analytical data, stain on side slopes of excavation and stain indicate potential issue, further sampling required. (collocated sites whose backfill and revegetation depend on this site: 100-N-9, 100-N-28, 100-N-29, 100-N-30 and 100-N-37)	See waste site 100-N-61:1
3	120-N-3	Neutralization Pit and French Drain	Yes	No analytical data, stain on west slope of excavation including were excavation merges into 120-N-3 open excavation and stains indicate potential issue, further sampling required.	Verification samples J1PWD4, J1PWF5, In-process sample J1POX3
4	100-N-61:2	100-N Water Treatment and Storage Facilities Underground Pipelines	No	No analytical data, stain on east slope of excavation at 100-N-62 pipeline lower excavation and stains indicate potential issue, further sampling required. (collocated sites whose backfill and revegetation depend on this site: 100-N-24 and 100-N-28)	See waste site 100-N-62
4	100-N-62	100-N 105-N, 109-N, 163-N, 182-N, 183-N and 184-N Underground Pipelines	Yes	No analytical data, 100-N-62 pipe laid underneath 100-N-61:2 and 100-N-64:2, stain on east slope of excavation and stains indicate potential issue, further sampling required. (collocated sites whose backfill and revegetation depend on this site: 100-N-24 and 100-N-28)	In-process sample J1NP43 and J1NP47
4	100-N-64:2	105-N, 116-N-4 (1300-N), 1304-N, 107-N Underground Pipelines to 1908-N Outfall	Yes	No analytical data, stain on east slope of excavation and stains indicate potential issue, further sampling required. (collocated sites whose backfill and revegetation depend on this site: 100-N-24 and 100-N-28)	See waste site 100-N-62
5	UPR-100-N-14	Drain System Leak	Yes	No analytical data, stain on east slope of excavation and stains indicate potential issue, further sampling required. (collocated sites whose backfill and revegetation depend on this site: 100-N-87 and 100-N-102:1)	None
6	100-N-63:2	105-N, 116-N-1 (1301-N) Crib, 116-N-3 (1325-N) Crib, and 116-N-2 (1310-N Tank) Underground Pipelines.	Yes	Not all portions of pipeline length effected by plumes and issues. (collocated sites whose backfill and revegetation depend on this site: 100-N-59, 100-N-60, 100-N-89, UPR-100-N-13, UPR-100-N-26, UPR-100-N-6	100-N-63:2 verification samples; J1MXD5, J1MXD3, J1PVM6, and J1P1N6. Collocated waste site 100-N-60 verification sample J1PX68



From: Nielson, Renee J
Sent: Wednesday, May 07, 2014 7:56 AM
To: Weiss, Richard L
Subject: crosstab request

Hi Rich,

Will you prepare a crosstab report for the attached list of HEIS numbers? They are associated with several waste sites and SDGs. Please include the coordinates if available and TPH and PAH results only. The COA is 01N106NGW0. Please let me know if you have any questions.

Thank you!

Renee Nielson
372-9075 (office)
430-5466 (cell)

SITE CODE	SAMP NUM	SAMP DATE TIME	SAMPLE AREA	NORTHING	EASTING	TPH - diesel range extended to C36			TPH - diesel range			TPH - motor oil (high boiling)		
						GENORG			GENORG			GENORG		
						ug/kg	Q	PQL	ug/kg	Q	PQL	ug/kg	Q	PQL
100-N-106	JIT831	1/22/2014 7:40		1	149433	571259	2700 J		990	2000 J	670			
100-N-106	JIT832	1/22/2014 8:05		2	149346.3	571157.9	25000		1000	18000	700			
100-N-106	JIT833	1/22/2014 8:10		3	149366.2	571136.3	13000		1000	10000	690			
100-N-106	JIT834	1/22/2014 8:15		4	149381.2	571154.9	78000		1000	36000	690			
100-N-106	JIT835	1/22/2014 8:40		5	149591.8	571278.3	22000		1000	13000	710			
100-N-106	JIT836	1/22/2014 8:45		6	149643.3	571249.2	4000 J		1000	2200 J	690			
100-N-106	JIT837	1/22/2014 8:50		7	149717.4	571252.6	3100 J		1000	1800 J	680			
100-N-60	JIRF81	2/12/2013 13:02 FS-2			149721.62	571237.68	970 U		970	660 U	660			
100-N-61:1	JIROH9	8/21/2012 13:50 FS-3			149417	571166	990 U		990	670 U	670			
100-N-61:1	JIROJ0	8/21/2012 13:20 FS-4			149435	571131	7800		970	5500 B	660			
100-N-61:1	JIROJ1	8/21/2012 14:00 FS-5			149427	571167	930 U		930	630 U	630			
100-N-61:1	JIROJ2	8/21/2012 13:15 FS-6			149445	571128	4700		1000	3300 JB	680			
100-N-61:1	JIROJ3	8/21/2012 13:35 FS-7			149411	571117	240000 D		2000	180000 BD	1300			
100-N-61:1	JIROJ4	8/21/2012 14:30 FS-8			149368	571160	1900 J		960	1400 JB	650			
100-N-61:1	JIROJ5	8/21/2012 14:37 FS-9			149364	571175	14000		950	10000 B	650			
100-N-61:1	JIROJ6	8/21/2012 14:45 FS-10			149373	571180	830000 D		5000	670000 DB	3400			
100-N-61:1	JIROJ7	8/21/2012 14:52 FS-11			149362	571192	8200		940	5900 B	640			
100-N-61:2	JIROM9	8/28/2012 7:00 EXP-1			149357.55	571223.7	1500000 D		9600	1E+06 D	6500			
100-N-61:2	JIRON0	8/28/2012 7:15 EXP-2			149377.78	571223.7	130000		940	85000	640			
100-N-61:2	JIRON1	8/28/2012 7:35 EXP-3			149387.9	571229.54	36000		940	29000	640			
100-N-61:2	JIRON2	8/28/2012 7:45 EXP-4			149398.02	571223.7	28000		980	15000	660			
100-N-61:2	JIRON3	8/28/2012 7:55 EXP-5			149398.02	571235.38	8200		1000	5300	680			
100-N-61:2	JIRON4	8/28/2012 8:15 EXP-6			149408.14	571241.23	15000		1000	9300	680			
100-N-61:2	JIRON5	8/28/2012 8:40 EXP-7			149418.26	571247.07	7900		960	5800	650			
100-N-61:2	JIRON6	8/28/2012 8:50 EXP-8			149428.37	571252.91	6200		980	3000 J	670			
100-N-61:2	JIRON7	8/28/2012 9:20 EXP-10			149458.73	571258.75	2600 J		1000	2100 J	680			
100-N-61:2	JIRON8	8/28/2012 9:40 EXP-11			149354.76	571236.86	380000 D		1900	290000 D	1300			
100-N-61:2	JIRON9	8/28/2012 9:55 EXP-12			149370.01	571252.44	11000		970	8600	660			
100-N-61:2	JIROP0	8/28/2012 7:55 R Tie To JIRON3			149398.02	571235.38	19000 N		930	14000 N	640			
100-N-61:2	JIROP1	8/28/2012 9:05 EXP-9			149448.61	571264.59	3100 J		970	2200 J	660			
100-N-61:4	JIRN152	4/25/2013 12:27 S Tie to JIRL18			149333.6	571018.2				380 U	380	730 U		730
100-N-61:4	JIRL16	4/25/2013 12:13 EXC-1			149310.5	571031.6	4900		1000	4400	690			
100-N-61:4	JIRL17	4/25/2013 13:04 EXC-2			149310.5	571058.3	410000 N		1000	340000 N	680			
100-N-61:4	JIRL18	4/25/2013 12:27 EXC-3			149333.6	571018.2	4400		1100	3100 J	720			
100-N-61:4	JIRL19	4/25/2013 12:24 EXC-4			149333.6	571044.9	420000		990	330000	670			
100-N-61:4	JIRL20	4/25/2013 12:37 EXC-5			149356.8	571031.6	5000		1000	4000 J	700			
100-N-61:4	JIRL21	4/25/2013 12:42 EXC-6			149356.8	571058.3	950000 D		4900	790000 D	3300			
100-N-61:4	JIRL22	4/25/2013 13:54 EXC-7			149379.9	571018.2	5700		940	4000	640			
100-N-61:4	JIRL23	4/25/2013 12:49 EXC-8			149379.9	571044.9	5000		980	3700 J	670			
100-N-61:4	JIRL24	4/25/2013 14:00 EXC-9			149403	571031.6	4200		990	2300 J	680			
100-N-61:4	JIRL25	4/25/2013 12:54 EXC-10			149403	571058.3	9400		940	6200	640			
100-N-61:4	JIRL26	4/25/2013 13:13 EXC-11			149403	571085	3700		920	3000 J	620			
100-N-61:4	JIRL27	4/25/2013 13:48 EXC-12			149426.2	571044.9	2900 J		950	2200 J	650			
100-N-61:4	JIRL28	4/25/2013 12:27 R Tie To JIRL18			149333.6	571018.2	5800		1100	3800 J	740			
100-N-61:4	JIRMR0	5/16/2013 12:34 EXC-10			149403	571058.3								
120-N-3	JIP0X1	4/18/2012 9:45			149355.9	571167.1	3600 JB		1000	2700 JB	700			
120-N-3	JIP0X2	4/18/2012 9:50			149347.9	571159.4	15000 B		1000	12000 B	700			
120-N-3	JIP0X3	4/18/2012 10:00			149344.9	571153.9	460000 B		990	390000 B	670			
UPR-100-N-6	JIPWW1	8/7/2012 11:15 EXC-1			149592.7	571279.5			1900 J	3340	3790 J		10000	
UPR-100-N-6	JIPWW2	8/7/2012 10:05 EXC-2			149592.7	571285.5			880 J	3460	10400 U		10400	
UPR-100-N-6	JIPWW3	8/7/2012 11:05 EXC-3			149596.02	571292.45			886 J	3390	10200 U		10200	
UPR-100-N-6	JIPWW4	8/7/2012 10:15 EXC-4			149600.31	571312.86			3390 U	3390	8220 J		10200	
UPR-100-N-6	JIPWW5	8/7/2012 10:12 EXC-5			149603.2	571321.7			3350 U	3350	12800		10100	
UPR-100-N-6	JIPWW6	8/7/2012 10:57 EXC-6			149603.2	571327.8			3230 U	3230	20700		9680	
UPR-100-N-6	JIPWW7	8/7/2012 10:52 EXC-7			149608.4	571342.9			3360 U	3360	11800		10100	
UPR-100-N-6	JIPWW8	8/7/2012 10:45 EXC-8			149608.4	571348.9			3290 U	3290	17500		9860	
UPR-100-N-6	JIPWW9	8/7/2012 10:40 EXC-9			149613.6	571351.9			3320 U	3320	26600		9950	
UPR-100-N-6	JIPWX0	8/7/2012 10:40 EXC-10			149618.9	571361			1220 J	3290	9870 U		9870	
UPR-100-N-6	JIPWX1	8/7/2012 10:30 EXC-11			149624.1	571364			18800	3330	31400		9990	
UPR-100-N-6	JIPWX2	8/7/2012 10:25 EXC-12			149634.5	571376			1680 J	3340	10000 U		10000	
UPR-100-N-6	JIPWX3	8/7/2012 10:15 R Tie To JIPWW4			149600.31	571312.86			2790 J	3210	6590 J		9630	

Site Code	Sample Number	Sample Date	Sample Location	Northing	Easting	TPH - diesel range extended to C36		TPH - diesel range		TPH - motor oil (high boiling)		Benzzo(a)anthracene		Benzzo(a)pyrene		Benzzo(b)fluoranthene		Dibenz(a,h)anthracene		Indeno(1,2,3-c)pyrene		
						ug/kg	Q	POL	ug/kg	Q	POL	ug/kg	Q	POL	ug/kg	Q	POL	ug/kg	Q	POL	ug/kg	Q
100-N-106	J1T831	1/22/2014	SFOR-1	149433	571259	2700	J	990	2000	J	670											
100-N-106	J1T832	1/22/2014	SFOR-2	149346.3	571157.9	25000	1000	1000	18000		700											
100-N-106	J1T833	1/22/2014	SFOR-3	149366.2	571136.3	13000	1000	1000	10000		690											
100-N-106	J1T834	1/22/2014	SFOR-4	149381.2	571154.9	78000	1000	1000	36000		690											
100-N-106	J1T835	1/22/2014	SFOR-5	149391.8	571278.3	22000	1000	1000	13000		710											
100-N-106	J1T836	1/22/2014	SFOR-6	149443.3	571249.2	4000	1000	1000	2200	J	690											
100-N-106	J1T837	1/22/2014	SFOR-7	149471.74	571252.6	3100	J	1000	1800	J	680											
100-N-611	J1R003	8/21/2012	1	149411	571117	240000	D	2000	180000	BD	1300											
100-N-611	J1R005	8/21/2012	2	149364	571175	14000	950	10000	B	650												
100-N-611	J1R006	8/21/2012	3	149373	571180	830000	D	5000	670000	DB	3400											
100-N-611	J1R007	8/21/2012	4	149362	571192	8200	940	5900	B	640												
100-N-612	J1R008	8/28/2012	5	149375.55	571223.7	1500000	D	9600	1200000	D	6500											
100-N-612	J1R009	8/28/2012	6	149377.78	571223.7	130000	940	85000	640													
100-N-612	J1R010	8/28/2012	7	149398.02	571223.7	28000	980	15000	660													
100-N-614	J1R17	4/25/2013	9	14934.76	571058.3	380000	D	1900	290000	D	1300											
100-N-614	J1R19	4/25/2013	10	149333.6	571044.9	420000	990	330000	D	670												
100-N-614	J1R21	4/25/2013	11	149356.8	571058.3	950000	D	4900	790000	D	3300											
100-N-614	J1R25	4/25/2013	12	149403	571058.3	9400	940	6200	640													
100-N-632	J1M3D3	3/11/2012	13	149344.2	571155.9	465000	B	990	390000	B	670											
100-N-632	J1M3D3	3/11/2012	14	149316.6	571311.4	650000	B	5000	560000	B	2100											
100-N-632	J1P1M6	5/15/2012	15	149458.6	571287.1	380000	NS	1000	130000	NS	700											
100-N-632	J1P1M6	5/15/2012	16	149425.3	571365.2	910000	D	2000	700000	D	14000											
100-N-632	J1P1M6	5/15/2012	17	149454.4	571371.8	3800000	1900	1200000	1300													

Site Code	Sample Number	Sample Date	Sample Location	Northing	Easting	Acenaphthene		Acenaphthylene		Anthracene		Benzzo(k)fluoranthene		Chrysene		Fluoranthene		Fluorene		Naphthalene		Phenanthrene		Pyrene										
						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-106	J1T831	1/22/2014	SFOR-1	149433	571259																													
100-N-106	J1T832	1/22/2014	SFOR-2	149346.3	571157.9																													
100-N-106	J1T833	1/22/2014	SFOR-3	149366.2	571136.3																													
100-N-106	J1T834	1/22/2014	SFOR-4	149381.2	571154.9																													
100-N-106	J1T835	1/22/2014	SFOR-5	149391.8	571278.3																													
100-N-106	J1T836	1/22/2014	SFOR-6	149443.3	571249.2																													
100-N-106	J1T837	1/22/2014	SFOR-7	149471.74	571252.6																													
100-N-611	J1R003	8/21/2012	1	149411	571117	590	X	10	66	JX	9	3.1	U	3.1	840	7.2	1000	3.9	2800	4.8	6500	13	460	X	5.3	12	U	12	3600	12	6400	12		
100-N-611	J1R005	8/21/2012	2	149364	571175	910	DX	50	45	UD	45	2400	D	15	410	XD	36	930	D	20	3100	D	24	8400	D	65	980	D	60	7500	D	60		
100-N-611	J1R006	8/21/2012	3	149373	571180	530	X	9.4	52	JX	8.5	2000		2.9	670	6.8	650	3.7	2300	4.6	5700		11	U	11	3900		11	5500		11			
100-N-611	J1R007	8/21/2012	4	149362	571192	600	X	9.7	8.7	U	8.7	3	U	3	450	7	330	3.8	1300	4.7	3500		13	650	5.1	12	U	12	3700		12	3300		
100-N-612	J1R009	8/28/2012	5	149375.55	571223.7	1300	DX	46	41	UD	41	2700	D	14	2100	D	33	1800	D	18	5700	D	22	13000	D	60	1200	D	24	55	UD	55	12000	D
100-N-612	J1R010	8/28/2012	6	149377.78	571223.7	190	X	9.7	8.7	U	8.7	170		3	400	7	350	3.8	1000	4.7	2300		13	150	5.1	12	U	12	460		12	1100		
100-N-612	J1R012	8/28/2012	7	149398.02	571223.7	270	X	9.7	8.7	U	8.7	500		3	280	7	330	3.8	960	4.7	2300		13	250	X	5.1	12	U	12	460		12	1100	
100-N-614	J1R17	4/25/2013	9	149310.5	571058.3	430	X	10	9	U	9	800		3	410	7.2	540	3.9	1600	4.8	3900		13	350	X	5.3	12	U	12	1600		12	3800	
100-N-614	J1R19	4/25/2013	10	149333.6	571044.9	44000	DX	490	440	UD	440	81000	D	150	13000	D	350	14000	DX	190	87000	D	240	24000	D	640	33000	D	260	590	UD	590	2E+05	D
100-N-614	J1R21	4/25/2013	11	149356.8	571058.3	4600	DX	190	170	UD	170	10000	D	58	3400	D	140	3700	D	76	16000	D	93	41000	D	250	4300	DX	100	230	UD	230	22000	D
100-N-614	J1R25	4/25/2013	12	149403	571058.3	140	X	9.9	8.9	U	8.9	98		3	190	7.1	97	3.9	370	4.8	660		13	63	X	5.2	12	U	12	390		12	570	
100-N-632	J1M3D3	3/11/2012	13	149344.2	571155.9	10	U	10	9.3	U	9.3	87		3.2	82	7.5	65	4.1	170	5	370		13	43	X	5.3	12	U	12	170		12	370	
100-N-632	J1M3D3	3/11/2012	14	149316.6	571311.4																													
100-N-632	J1M3D3	3/11/2012	15	149458.6	571287.1																													
100-N-632	J1P1M6	5/15/2012	16	149425.3	571365.2																													
100-N-632	J1P1M6	5/15/2012	17	149454.4	571371.8																													

Pink - failed TPH and PAH
Blue - failed PAH only
Purple - failed TPH only

SAMPLE NUMBER	JIN152		JIP0X1		JIP0X2		JIP0X3		JIPWW1		JIPWW2		JIPWW3		JIPWW4	
	100-N-61.4	120-N-3	UPR-100-N-6													
CONSTITUENT	CLASS	04/25/13 12:27 PM	04/18/12 09:45 AM	04/18/12 09:50 AM	04/18/12 10:00 AM	08/07/12 11:15 AM	08/07/12 10:05 AM	08/07/12 11:05 AM	08/07/12 10:05 AM	08/07/12 11:05 AM	08/07/12 10:05 AM	08/07/12 11:05 AM	08/07/12 10:15 AM	08/07/12 11:05 AM	08/07/12 10:15 AM	08/07/12 10:15 AM
		ug/kg														
		Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
		PQL														
Acenaphthene	PAH	25 JN	10 U	11 U	10 U	10 U	10 U	10 U	3.25 U	3.25 U	7.79	3.45	3.41	3.41	59.1	3.35
Acenaphthylene	PAH	31 U	9.2 U	9.6 U	9.3 U	9.3 U	9.3 U	9.3 U	16.8	3.25	3.45 U	3.45	3.41 U	3.41	5.37	3.35
Anthracene	PAH	3.5 U	13 J	3.1	3.2	87	3.2	3.25 U	3.25	3.25 U	3.45 U	3.45	3.41 U	3.41	1.86 J	3.35
Benzo(a)anthracene	PAH	15 JN	3.5	19	3.3	210	3.3	4.08	3.25	3.06 J	3.45	3.45	3.41	3.41	21.2	3.35
Benzo(a)pyrene	PAH	14 JN	3.5	14 J	6.5	120	6.7	3.3	3.25	3.45 U	3.45	3.45	3.41	3.41	20.9	3.35
Benzo(b)fluoranthene	PAH	15 J	3.5	16	4.3	130	4.4	2.88 J	3.25	3.45 U	3.45	3.45	3.41	3.41	11.2	3.35
Benzo(ghi)perylene	PAH	5.8 J	3.5	11 J	7.3	83	7.5	2.44 J	3.25	3.45 U	3.45	3.45	3.41	3.41	12.9	3.35
Benzo(k)fluoranthene	PAH	6 J	3.5	8.7 J	4	57	4.1	1.15 J	3.25	3.45 U	3.45	3.45	3.41	3.41	8.09	3.35
Chrysene	PAH	18 N	3.5	21 J	4.9	170 X	5	3.58	3.25	3.25 J	3.45	3.45	3.41	3.41	26.8	3.35
Dibenz[a,h]anthracene	PAH	6.9 U	6.9	11 U	11	26 JX	11	3.25 U	3.25	3.45 U	3.45	3.45	3.41 U	3.41	2.35 J	3.35
Fluoranthene	PAH	24 JN	6.9	45	13	430	13	7.73	3.25	6.28	3.45	3.45	3.41	3.41	43.4	3.35
Fluorene	PAH	6.9 U	6.9	5.4 U	5.4	52	5.5	3.25 U	3.25	3.45 U	3.45	3.45	3.41 U	3.41	1.48 J	3.35
Indeno(1,2,3-cd)pyrene	PAH	5.7 JN	3.5	12 U	12	66	12	3.87	3.25	4.11	3.45	3.45	3.41	3.41	3.35 U	3.35
Naphthalene	PAH	25 U	25	12 U	12	13 U	12	5.84	3.25	7.63	3.45	3.45	3.41	3.41	29.8	3.35
Phenanthrene	PAH	8.1 JN	6.9	30 J	12	260	12	2.46 J	3.25	3.64	3.45	3.45	3.41	3.41	21.3	3.35
Pyrene	PAH	23 JN	3.5	43	12	440	12	6.08	3.25	4.49	3.45	3.45	3.41	3.41	47	3.35

JIPWW5		JIPWW6		JIPWW7		JIPWW8		JIPWW9		JIPWX0		JIPWX1		JIPWX2		JIPWX3		JIR0H9	
UPR-100-N-6		100-N-6:1																	
ug/kg	Q	ug/kg	Q																
86.5	3.38	289	3.24	95.1	3.31	126	3.32	53.1	3.34	9.12	3.31	3.32	5.8	3.26	29.1	3.36	9.4	9.4	U
11.3	3.38	13.2	3.24	2.86	3.31	6.07	3.32	3.34	3.34	3.31	3.31	3.32	6.87	3.26	3.36	3.36	8.4	8.4	U
2.27	J	3.38	11.1	2.17	3.31	7.85	3.32	1.02	3.34	3.31	3.31	8.77	3.26	3.36	3.36	2.9	2.9	2.9	U
34.5	3.38	126	3.24	42.6	3.31	50	3.32	26.6	3.34	4.83	3.31	31.4	3.32	4.78	3.26	10.6	3.36	3.36	3
40.2	3.38	128	3.24	43.3	3.31	43.1	3.32	23.7	3.34	3.41	3.31	37.7	3.32	4.07	3.26	10.9	3.36	6.0	6
14.3	3.38	76.3	3.24	26.4	3.31	24.1	3.32	11.2	3.34	2.25	3.31	86.7	3.32	2.78	3.26	6.5	3.36	3.9	3.9
33.7	3.38	105	3.24	33.4	3.31	27.2	3.32	12.7	3.34	0.91	3.31	2.56	3.32	2.64	3.26	9.19	3.36	6.7	6.7
13.8	3.38	51	3.24	16.9	3.31	16.1	3.32	12.7	3.34	0.91	3.31	3.32	3.32	1.14	3.26	3.36	3.7	3.7	U
27.3	3.38	91	3.24	30.4	3.31	34.6	3.32	19.2	3.34	2.98	3.31	3.32	4.02	3.26	9.58	3.36	5.7	4.5	J
3.18	J	3.38	8.83	2.88	3.31	2.96	3.32	3.34	3.34	3.31	3.31	3.32	3.26	3.26	3.36	10	10	10	U
55.9	3.38	216	3.24	66.8	3.31	98.1	3.32	37.6	3.34	3.31	3.31	104	3.32	9.55	3.26	19.6	12	12	J
3.38	U	3.38	3.24	3.31	3.31	2.38	3.32	3.34	3.34	3.31	3.31	3.32	1.52	3.26	3.36	3.36	4.9	4.9	U
3.38	U	3.38	50.1	25.6	3.31	3.32	3.32	10.5	3.34	3.31	3.31	2.03	3.32	3.26	3.36	3.36	11	11	U
28.8	3.38	108	3.24	28.4	3.31	46.3	3.32	24.6	3.34	5.91	3.31	19.7	3.32	8.16	3.26	13.7	11	11	U
17.3	3.38	43.4	3.24	10.8	3.31	37.5	3.32	13.4	3.34	1.37	3.31	28.3	3.32	2.15	3.26	7.11	11	11	U
65.3	3.38	205	3.24	58.7	3.31	75.5	3.32	32.6	3.34	4.33	3.31	14.6	3.32	7.28	3.26	17.7	11	11	J

J1R0J0		J1R0J1		J1R0J2		J1R0J3		J1R0J4		J1R0J5		J1R0J6		J1R0J7		J1R0M9		J1R0N0		
100-N-61:1		100-N-61:1		100-N-61:1		100-N-61:1		100-N-61:1		100-N-61:1		100-N-61:1		100-N-61:1		100-N-61:2		100-N-61:2		
08/21/12 01:20 PM	Q	PQL	ug/kg	Q	PQL	ug/kg	Q	PQL	ug/kg	Q	PQL	ug/kg	Q	PQL	ug/kg	Q	PQL	ug/kg	Q	PQL
9.2 U	10	9.9	9.9 U	10	9.8 U	9.8	910 DX	50	530 X	9.4	600 X	9.7	1300 DX	46	190 X	9.7	8.7 U	8.7	41	8.7 U
8.3 U	9	8.9	8.9 U	9	8.8 U	8.8	45 UD	45	52 JX	8.5	8.7 U	8.7	41 UD	41	8.7 U	8.7	2.8	3.1 U	3	2700 D
25	3.1	3.2	3.2 U	3.1	3.1 U	3	3800 D	15	2000	2.9	3 U	3	2700 D	14	170	3	2.9	3.1 U	3	2700 D
120	3.2	3.2	3.2 U	3.2	3.1 U	3.1	3800 D	16	2700	3	1400	3.1	6700 D	15	850	3.1	2.9	3.2 U	3.2	3300
82	6.4	6.3	6.3 U	6.4	6.3 U	6.3	1500 D	32	1400	6.1	760	6.2	3900 D	29	760	6.2	5.9	6.4 U	6.4	1700
110	4.2	4.2	4.2 U	4.2	4.1 U	4.1	1900 D	21	1700	4	920	4.1	4600 D	19	740	4.1	3.9	4.2 U	4.2	2200
45	7.2	7.1	7.1 U	7.2	7 U	7	410 XD	36	670	6.8	450	7	2100 D	33	400	7	6.7	7.2 U	7.2	840
38	3.9	3.9	3.9 U	3.9	3.8 U	3.8	930 D	20	650	3.7	330	3.8	1800 D	18	350	3.8	3.6	3.9 U	3.9	1000
120	4.8	4.8	4.8 U	4.8	4.7 U	4.7	3100 D	24	2300	4.6	1300	4.7	5700 D	22	1000	4.7	4.5	4.8 U	4.8	2800
10 U	11	11	11 U	11	11 U	11	170 XD	55	200 X	10	160 X	11	510 DX	50	11 U	11	10	11 U	11	240 X
170	13	13	13 U	13	13 U	13	8400 D	65	5700	12	3500	13	13000 D	60	820 X	13	12	13 U	12	6500
17 J	5.3	5.2	5.2 U	5.3	5.1 U	5.1	980 D	26	630 X	5	650	5.1	1200 D	24	150	5.1	4.9	5.3 U	5.3	460 X
40	12	12	12 U	12	12 U	12	790 D	60	570	11	450	12	1800 D	55	280	12	11	12 U	12	710
11 U	12	12	12 U	12	12 U	12	60 UD	60	11 U	11	12 U	12	55 UID	55	12 U	12	11	12 U	11	12 U
66	12	12	12 U	12	12 U	12	7500 D	60	3900	11	3700	12	6400 D	55	460	12	11	12 U	11	3600
200	12	12	12 U	12	12 U	12	7500 D	60	5500	11	3300	12	12000 D	55	1100	12	11	12 U	11	6400

JIRON1	JIRON2	JIRON3	JIRON4	JIRON5	JIRON6	JIRON7	JIRON8	JIRON9	JIROPO
100-N-61:2									
08/28/12 07:35 AM	08/28/12 07:45 AM	08/28/12 07:55 AM	08/28/12 08:15 AM	08/28/12 08:40 AM	08/28/12 08:50 AM	08/28/12 09:20 AM	08/28/12 09:40 AM	08/28/12 09:55 AM	08/28/12 07:55 AM
ug/kg									
Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
PQL									
9.5 U	270 X	9.7	9.6 U	9.9	9.3 U	9.5 U	9.9	9.3 U	9.3
8.6 U	8.7 U	8.7	8.6 U	8.9	8.4 U	8.6 U	8.9	8.4 U	8.4
12 J	3 500	3 26	2.9 48	3 2.8 U	2.8	2.9 U	3 26000 D	31 8.9 J	2.8
64	3 1100	3.1 120	3.1 130	3.1 64	3 3 U	3 3.1 U	3.1 27000 D	32 19 X	3 87
37	6.1 560	6.2 78	6.2 81	6.3 29	6 6.1 U	6.1 6.3 U	6.3 12000 D	65 46	6 74
57	4 730	4.1 91	4 96	4.1 39	4 4 U	4 4.1 U	4.1 16000 D	42 34	3.9 73
28 JX	6.9 280	7 51	6.9 61	7.1 16 J	6.7 6.8 U	7.1 7.1 U	7.1 5500 D	73 23 JX	6.7 40
24	3.8 330	3.8 31	3.8 34	3.9 16	3.7 3.7 U	3.7 3.9 U	3.9 5400 D	40 16	3.7 29
54	4.6 960	4.7 120	4.6 150	4.8 53	6.3 J	4.6 4.8 U	4.8 22000 D	49 47	4.5 88
10 U	10 76 X	11 11 U	11 20 JX	11 10 U	10 10 U	11 11 U	11 1800 DX	110 10 U	10 12 JX
110	12 2300	13 170	12 220	13 150	12 12 U	12 13 U	13 66000 D	130 72	12 120
5 U	5 250 X	5.1 17 JX	5.1 24 J	5.2 9.9 J	5 U	5.2 U	5.2 12000 D	53 4.9 U	4.9 14 J
21 JX	11 220	12 54	12 54	12 11 J	11 11 U	11 12 U	12 4600 D	120 15 J	11 40
11 U	11 12 U	12 12 U	12 12 U	12 11 U	11 11 U	11 12 U	12 120 UID	120 11 U	11 12 U
36 J	11 1300	12 47	12 110	12 65	11 11 U	11 12 U	12 61000 D	120 25 J	11 39 J
110	11 2200	12 210	12 260	12 140	11 12 J	11 12 U	12 61000 D	120 110	11 150

JIROP1		JIIF81		JIIRL16		JIIRL17		JIIRL18		JIIRL19		JIIRL20		JIIRL21		JIIRL22		JIIRL23			
100-N-61:2		100-N-60		100-N-61:4																	
08/28/12 09:05 AM	02/12/13 01:02 PM	02/12/13 01:02 PM	04/25/13 12:13 PM	04/25/13 01:04 PM	04/25/13 12:27 PM	04/25/13 12:24 PM	04/25/13 12:37 PM	04/25/13 12:42 PM	04/25/13 01:54 PM	04/25/13 12:49 PM	04/25/13 12:42 PM	04/25/13 12:37 PM	04/25/13 12:42 PM	04/25/13 01:54 PM	04/25/13 12:49 PM						
ug/kg	Q	PQL																			
9.9 U	10 U	10	9.9 U	10	11 U	11 U	9.9 U	11 U	11 U	490	490	9.9 U	9.9 U	9.9 U	190	23 JX	9.9	14 JX	9.3	9.3	
8.9 U	9.4 U	9.4	8.9 U	9 U	9.8 U	9.8 U	8.9 U	9.8 U	9.8 U	440	440	8.9 U	8.9 U	8.9 U	170	8.9 U	8.9	8.4 U	8.4	8.4	
3.9 J	3.2 U	3.2	3.2 U	3	3.3 U	3.3 U	3.2 U	3.3 U	3.3 U	150	150	3 U	3 U	3 U	58	29	3	20	2.8	2.8	
19	3.2 U	3.3	3.2 U	3.2	25	25	3.1 U	3.1 U	3.5	99000 D	160	3.1 U	3.1 U	3.1	20000 D	61	140	3.1	58	3	
16	6.3 U	6.7	6.4 U	6.4	15 J	15 J	6.3 U	6.3 U	7	48000 D	320	6.3 U	6.3 U	6.3	7800 D	120	110	6.3	31	6	
17	4.2 U	4.4	4.2 U	4.2	16	16	4.1 U	4.1 U	4.6	43000 DX	210	4.1 U	4.1 U	4.1	8900 D	81	96 X	4.1	30 X	3.9	
7.1 U	7.5 U	7.5	7.2 U	7.2	7.8 U	7.8 U	7.1 U	7.1 U	7.8	13000 D	350	7.1 U	7.1 U	7.1	3400 D	140	16 JX	7.1	15 J	6.7	
7.1 J	4.1 U	4.1	3.9 U	3.9	6 J	6 J	3.9 U	3.9 U	4.3	14000 DX	190	3.9 U	3.9 U	3.9	3700 D	76	42	3.9	13 J	3.7	
17 J	5.1 U	5.1	6 J	4.8	20 JX	20 JX	4.8 U	4.8 U	5.3	87000 D	240	4.8 U	4.8 U	4.8	16000 D	93	160	4.8	59	4.5	
11 U	11 U	11	11 U	11	12 U	12 U	11 U	11 U	12	3600 DX	540	11 U	11 U	11	550 JDX	210	11 U	11	10 U	10	
33 J	14 U	14	13 U	13	54	54	13 U	13 U	14	2E+05 D	640	13 U	13 U	13	41000 D	250	230	13	97	12	
5.2 U	5.5 U	5.5	5.2 U	5.2	5.8 U	5.8 U	5.2 U	5.2 U	5.8	33000 D	260	5.2 U	5.2 U	5.2	4300 DX	100	22 JX	5.2	11 J	4.9	
12 U	13 U	13	12 U	12	43 X	43 X	12 U	12 U	13	11000 D	590	12 U	12 U	12	2700 D	230	35	12	14 J	11	
12 U	13 U	13	12 U	12	13 U	13 U	12 U	12 U	13	590 UD	590	12 U	12 U	12	230 UD	230	12 U	12	11 U	11	
12 U	13 U	13	12 U	12	1600	1600	12 U	12 U	13	2E+05 D	590	12 U	12 U	12	22000 D	230	45	12	48	11	
37 J	13 U	13	12 J	12	55	55	12 J	12 J	13	2E+05 D	590	12 U	12 U	12	40000 D	230	240	12	110	11	11

J1RL24			J1RL25			J1RL26			J1RL27			J1RL28			J1RMRO		
100-N-61.4																	
04/25/13 02:00 PM			04/25/13 12:54 PM			04/25/13 01:13 PM			04/25/13 01:48 PM			04/25/13 12:27 PM			05/16/13 12:34 PM		
ug/kg	Q	PQL															
9.8 U			140 X			9.9 U			9.5 U			11 U			11 U		
8.9 U			8.9 U			8.9 U			8.6 U			9.7 U			8.9 U		
3 U			3 U			3 U			2.9 U			3.3 U			3.3 U		
3.1 U			3.2 U			3.2 U			3 U			24 X			3.5 U		
6.3 U			6.3 U			6.3 U			6.1 U			31			6.9 U		
4.1 U			4.1 U			4.1 U			4 U			88			4.5 U		
7.1 U			7.1 U			7.1 U			6.9 U			30 J			7.8 U		
3.9 U			3.9 U			3.9 U			3.8 U			32			4.3 U		
4.8 U			4.8 U			4.8 U			4.6 U			39 J			5.2 U		
11 U			11 U			11 U			10 U			12 U			11 U		
13 U			13 U			13 U			12 U			14 U			98 N		
5.2 U			62 X			5.2 U			5 U			5.7 U			5.7 U		
12 U			12 U			12 U			11 U			13 U			13 U		
12 U			12 U			12 U			11 U			13 U			13 U		
12 U			12 U			12 U			11 U			13 U			13 U		
12 U			730			13 J			11 U			13 U			13 U		

Attachment 7

Activity ID	Activity Name	RD	Start	Finish	July 2014	August 2014	S	O	N	D	
100 D											
Excavation											
CBB0558A	Excavate 100-D-75:1	13	07-Jul-14 A	28-Jul-14	3	0	1	2	2	0	1
CBB751A20	Exc Process - 100-B-35	0%	19 21-Jul-14*	20-Aug-14	1	2	0	1	2	0	1
DMS070A	Excavation Campaign Complete 100D	0%	0	28-Jul-14	1	2	0	1	2	0	1
Loadout											
CBB0544B	Loadout 100-D-85:2 (RAD) OrangeCans	99%	11 06-May-14 A	23-Jul-14	3	0	1	2	0	1	2
CBB0546B	Loadout 100-D-86:3 506 Tons	99%	3 15-May-14 A	09-Jul-14	1	2	0	1	2	0	1
CBB0547B	Loadout 100-D-96:2 - (3 Tons) MHVs	99%	1 01-Jul-14 A	07-Jul-14	1	2	0	1	2	0	1
CBB0541B	Loadout 100-D-83:3 - (174 Tons)	99%	1 01-Jul-14 A	07-Jul-14	1	2	0	1	2	0	1
CBB0516G	Loadout 100-D-31:11&12	11%	6 01-Jul-14 A	15-Jul-14	1	2	0	1	2	0	1
CBB0558B	Loadout 100-D-75:1	5%	42 07-Jul-14 A	17-Sep-14	1	2	0	1	2	0	1
CBB0534B	Loadout 100-D-81 5,318 Tons	0%	1 16-Jul-14	16-Jul-14	1	2	0	1	2	0	1
DMS080A	Loadout Campaign Complete (Super Dumps) 100D/H	0%	0	21-Jul-14	1	2	0	1	2	0	1
CBB0543B	Loadout 100-D-84:2 280 Tons	0%	1 24-Jul-14	24-Jul-14	1	2	0	1	2	0	1
CBB0513B1	Loadout 1607-D2:5 (112 Tons)	0%	1 24-Jul-14	24-Jul-14	1	2	0	1	2	0	1
DMS090A	Loadout Campaign Complete (ERDF Containers) 100D	0%	0	24-Jul-14	1	2	0	1	2	0	1
CBB751A30	Loadout - 100-B-35	0%	35 30-Jul-14	30-Sep-14	1	2	0	1	2	0	1
DMS090B	Loadout Campaign Complete (ERDF Containers) 100H	0%	0	11-Aug-14	1	2	0	1	2	0	1
DMS080A30	Loadout Campaign Complete 100-D-75:1	0%	0	17-Sep-14	1	2	0	1	2	0	1
Non Site Specific Support											
RDCONT5323	100-D Exit Items	85%	32 10-Feb-14 A	28-Aug-14	1	2	0	1	2	0	1
RDCONT5393	Demobilization from Partial D-Mac and 100-H Area trailer and ε	0%	37 02-Sep-14*	04-Nov-14	1	2	0	1	2	0	1
100 H											
Excavation											
DMS070B	Excavation Campaign Complete 100H	0%	0	05-Aug-14	1	2	0	1	2	0	1
Loadout											
HB511B04	Loadout 100-H-28:2	99%	3 02-Oct-13 A	24-Jul-14	1	2	0	1	2	0	1
HB513B4	Loadout 100-H-28:4 2,202 Tons	6%	3 24-Feb-14 A	15-Jul-14	1	2	0	1	2	0	1
HB528B	Loadout 100-H-59 (16,903 Tons)	72%	4 08-Apr-14 A	22-Jul-14	1	2	0	1	2	0	1
HB515B	Loadout 100-H-42 Orange Cans	99%	3 02-Jun-14 A	09-Jul-14	1	2	0	1	2	0	1
HB514B	Loadout 100-H-28:5 (Blue Dot - 4,096 Tons)	99%	2 16-Jun-14 A	29-Jul-14	1	2	0	1	2	0	1
HB525B	Loadout 100-H-51:1 (686 Tons)	0%	1 17-Jul-14	17-Jul-14	1	2	0	1	2	0	1
HB526B10	Loadout 100-H-51:6 (1,676 Tons)	0%	1 21-Jul-14	21-Jul-14	1	2	0	1	2	0	1
HB528B10	Loadout 100-H-59	0%	3 21-Jul-14*	23-Jul-14	1	2	0	1	2	0	1
HB512B11	Loadout 100-H-28:3 BlueDot	0%	5 29-Jul-14	30-Jul-14	1	2	0	1	2	0	1
HB519B	Loadout 100-H-48 951 Tons	0%	2 31-Jul-14	04-Aug-14	1	2	0	1	2	0	1
HB520B	Loadout 100-H-51:2 (Direct Load - 336 Tons) BlueDot	0%	1 05-Aug-14	05-Aug-14	1	2	0	1	2	0	1

Activity ID	Activity Name	% Cmpl	RD	Start	Finish	July 2014	August 2014	S	O	N	D	J										
HB516B	Loadout 100-H-43 (1,803 Tons)	0%	3	06-Aug-14	11-Aug-14	3	0	1	2	0	1	2	0	0	1	2	0	1	2	0	1	2
Non Site Specific Support																						
HNSSETC2	100-H Exit Items	35%	78	19-Mar-14 A	19-Nov-14																	



Attachment 8

176455

^WCH Document Control

From: Saueressig, Daniel G
Sent: Tuesday, July 08, 2014 10:48 AM
To: ^WCH Document Control
Subject: FW: NON-CONTIGUOUS ONSITE APPROVAL

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

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

From: Guzzetti, Christopher [mailto:Guzzetti.Christopher@epa.gov]
Sent: Tuesday, July 08, 2014 9:40 AM
To: Saueressig, Daniel G
Cc: Kapell, Arthur
Subject: RE: NON-CONTIGUOUS ONSITE APPROVAL

I don't have an issue with it.

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:daniel.saueressig@wch-rcc.com]
Sent: Monday, July 07, 2014 1:07 PM
To: Guzzetti, Christopher
Cc: Kapell, Arthur
Subject: NON-CONTIGUOUS ONSITE APPROVAL

Chris, we have been accumulating some lead debris in an ERDF can at the 100-D CTA for future macro encapsulation at ERDF. I'd like to request a non-contiguous onsite approval to move the ERDF can to the 100-H CTA to add some additional lead debris encountered from remediation activities at 100-H. The other possibility would be to move the lead debris encountered at 100-H to 100-D and add it to the ERDF can staged there for macro encapsulation (depending on the quantity encountered). Either way, I'll need your approval to either transfer the lead to the ERDF can at 100-D or to move the ERDF can from 100-D to 100-H.

I discussed this with Artie Kapell a couple weeks ago and he didn't have any concerns with allowing this. Let me know if you concur.

7/8/2014

Thanks,

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

Attachment 9

176325

^WCH Document Control

From: Saueressig, Daniel G
Sent: Tuesday, June 17, 2014 9:07 AM
To: ^WCH Document Control
Subject: FW: REQUEST FOR APPROVAL CERCLA WASTE CONTAINER STORAGE AREAS AT 100-D, 100-H AND BORROW PIT 23

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

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

From: Kapell, Arthur (ECY) [<mailto:akap461@ECY.WA.GOV>]
Sent: Tuesday, June 17, 2014 7:13 AM
To: Saueressig, Daniel G
Cc: Glossbrenner, Ellwood T
Subject: RE: REQUEST FOR APPROVAL CERCLA WASTE CONTAINER STORAGE AREAS AT 100-D, 100-H AND BORROW PIT 23

Dan,

I concur with extending the 100-H container storage area by one year. This brings the expiration of the area to June 5, 2015.

From: Saueressig, Daniel G [<mailto:daniel.saueressig@wch-rcc.com>]
Sent: Monday, June 16, 2014 9:49 AM
To: Kapell, Arthur (ECY)
Cc: Glossbrenner, Ellwood T
Subject: RE: REQUEST FOR APPROVAL CERCLA WASTE CONTAINER STORAGE AREAS AT 100-D, 100-H AND BORROW PIT 23

Artie, I'd like to request your approval for a 1 year extension to the 100-H container storage area originally approved below. The area was first used June 6, 2013 and although there is currently no waste being stored in the area, there is a potential need for this area during ongoing remediation activities at 100-H to store waste from equipment spills and confirmatory sampling events. Let me know if you concur with the one year extension.

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

From: Kapell, Arthur (ECY) [<mailto:akap461@ECY.WA.GOV>]
Sent: Wednesday, February 12, 2014 4:16 PM
To: Saueressig, Daniel G
Cc: Post, Thomas C; Glossbrenner, Ellwood T
Subject: RE: REQUEST FOR APPROVAL CERCLA WASTE CONTAINER STORAGE AREAS AT 100-D, 100-H AND

6/17/2014

BORROW PIT 23

Dan,

I am sending my concurrence for extending by one year approval of the 100-D container storage area. As the area was first used on February 20, 2013, this will extend its use up until February 20, 2015. Let me know if you have any questions.

Artie Kapell
Washington State Department of Ecology
Nuclear Waste Program
(509) 372-7895
akap461@ecy.wa.gov

From: Saueressig, Daniel G [<mailto:dqsauere@wch-rcc.com>]
Sent: Wednesday, February 12, 2014 2:43 PM
To: Kapell, Arthur (ECY)
Cc: Post, Thomas C; Glossbrenner, Ellwood T
Subject: RE: REQUEST FOR APPROVAL CERCLA WASTE CONTAINER STORAGE AREAS AT 100-D, 100-H AND BORROW PIT 23

Artie, I'd like to request your approval for a 1 year extension to the 100-D container storage area originally approved below. The area was first used on February 20, 2013 and although there is currently no waste being stored in the area, there is a potential need for this area during ongoing remediation activities at 100-D to store waste from equipment spills and confirmatory sampling events. Let me know if you concur with the one year extension.

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

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

From: Kapell, Arthur (ECY) [<mailto:akap461@ECY.WA.GOV>]
Sent: Thursday, October 04, 2012 9:26 AM
To: Winterhalder, John A
Cc: Saueressig, Daniel G; Harrison, Robert P; Boyd, Alicia; Post, Thomas C
Subject: RE: REQUEST FOR APPROVAL CERCLA WASTE CONTAINER STORAGE AREAS AT 100-D, 100-H AND BORROW PIT 23

John,

This email is to approve your request to establish three container storage areas at the 100-D and 100-H areas as described in your email. The locations are described in your email as follows:

The 100-D container storage area would be established very near the shippers trailer and packaging tent at the

6/17/2014

Container Transfer Area. The 100-H waste container storage area would be situated a short distance west of the packaging tent, across the road from the Container Transfer Area. The Pit 23 waste container storage area would be located within the footprint of the borrow pit. The first two areas are depicted in the following aerial photographs. Please provide either an aerial photograph depicting the location of the third area within the Pit 23 boundary or the coordinates.

Each of the areas may operate for up to one year from the date(s) that the first drums are stored there. There is the possibility of an extension for up to one year with the approval of Ecology. Please provide notification as to when storage has begun at each of these areas.

You may store no more than ten (10) 55-gallon drums of waste at each of these container storage areas at any one time. The waste may consist of spill cleanup material (hydraulic fluids and fuels combined with soil), personal protective equipment from verification and confirmatory sampling, oils and/or water drained from pipelines, and lead and other anomalous materials collected during remediation of waste sites. Please note that containerized waste that has been taken from a staging pile to a container storage area must reach its final disposal location (such as ERDF) before the expiration date for that staging pile.

The container storage area must be managed in compliance with the Washington Administrative Code container management requirements, including WAC 173-303-630. The following is a summary of these requirements. Please refer to the regulations for the complete requirements.

WAC 173-303-630 (Use and Management of Containers)

Identification of containers

Label identifying major risk(s) associated with the container.

Management

The containers must always be closed except when adding or removing waste.

Inspections

At least weekly, the owner/operator must inspect the areas where containers are stored, and must keep an inspection log including the date and time of inspection, name and signature of inspector.

Containment

There must be a containment system that is:

Capable of holding leaks and spills

Includes a base underlying the containers

Can contain ten percent of the volume of all containers of free liquids or the volume of the largest container, whichever is greater

Is sloped or otherwise designed to drain and remove liquids unless the containers are elevated or otherwise protected from contact with accumulated liquids.

Container storage areas that do not contain free liquids and do not exhibit either the characteristic of ignitability or reactivity need not have a containment system provided that:

The storage area is sloped or designed and operated to drain and remove liquid resulting from precipitation, or

The containers are elevated or protected from contact with accumulated liquids.

Closure

At closure, all dangerous waste and residues must be removed from the containment system. Remaining containers and soil containing or contaminated with dangerous waste or dangerous waste residues must be decontaminated or removed.

Artie Kapell
Nuclear Waste Program
Washington State Department of Ecology

(509) 372-7895 Office
(509) 372-7971 Fax

From: Winterhalder, John A [<mailto:jawinter@wch-rcc.com>]
Sent: Wednesday, October 03, 2012 3:35 PM
To: Kapell, Arthur (ECY)
Cc: Winterhalder, John A; Saueressig, Daniel G
Subject: FW: REQUEST FOR APPROVAL CERCLA WASTE CONTAINER STORAGE AREAS AT 100-D, 100-H AND BORROW PIT 23

Artie -- I did mention "oils and water drained from pipelines" (see bold & underlined text below) in my request below the figure that follows. I copied what Dan sent to Wanda for 100-N for the sake of consistency. Although we hope not to encounter any free liquids, we would follow the requirements of WAC 173-303-630 should we in fact turn something up. The requirements would most likely be met by using DOT spec containers placed on a commercially available "spill pallet". As I said on the way back in from D Area this morning, we hope not to have to use any of these requested areas. But if we have a spill or encounter an anomaly in the field that is outside of an AOC, we need somewhere to go with it. This advance request seems like the best option available to us. If and when we do encounter something that needs to go into a container storage area, we will notify you promptly and document the start of the one-year clock. I hope you find this approach acceptable.

I still haven't been able to locate a map or photo of the borrow pit area that I can send. I found one but it says it exceeds the allowable size for the user (me) and it doesn't send. So until I can locate something usable or Dan comes through with a photo or two, I don't have anything to send you, other than the borrow pit's location at the south east corner of the intersection of Route 1 and Route 4 (south east of the fire station at the same intersection). The container storage area would be located within boundary of Pit 23. I'll keep trying to find something and hopefull Dan will come back with a couple of useful photos.

Thanks!
John

er, John A
ptember 25, 2012 2:21 PM

C; Winterhalder, John A
EST FOR APPROVAL CERCLA WASTE CONTAINER STORAGE AREAS AT 100-D, 100-H AND BORROW PIT 23

Artie,

I am requesting your approval to set up CERCLA waste container storage areas at 100-D and 100-H as shown on the attached aerial photos. The 100-D container storage area would be established very near the shippers trailer and packaging tent at the Container Transfer Area. The 100-H waste container storage area would be situated a short distance west of the packaging tent, across the road from the Container Transfer Area. The Pit 23 waste container storage area would be located within the footprint of the borrow pit and I do not have a photo of that location. If you'd like, we can take a drive by these areas before you decide whether these locations are satisfactory.

Each of these areas could operate for up to 1 year, and it is estimated that up to ten (10) 55-gallon drums of

6/17/2014

waste could be stored at each location at any one time. It is possible that we may seek up to a 1 year extension for the storage area 100-D as work there is not expected to be complete until fiscal year 2014.

The types of waste that we expect to store includes spill cleanup material (hydraulic fluids and fuels combined with soil), personal protective clothing from confirmatory and verification sampling, **oils and/or water drained from pipelines** and potentially lead or other anomalous material encountered during remediation of various waste sites. The container storage areas will be managed in compliance with the substantive Washington Administrative Code container management requirements, including WAC 173-303-630 and -646(7).

Let me know if you concur or would like to take a drive by these locations.

Thank you,

John Winterhalder
100-D/H FR Environmental Project Lead
Washington Closure Hanford
554-8933

<< File: Visio-100D Waste Cont Storage Area.pdf >> << File: Visio-100H Waste Cont Storage Area.pdf >>

Attachment 10

Attachment 11

176315

^WCH Document Control

From: Saueressig, Daniel G
Sent: Tuesday, June 17, 2014 6:43 AM
To: ^WCH Document Control
Subject: FW: REQUEST FOR CONTAINER STORAGE AREA TO SUPPORT 600-349
Please provide a chron number. This email documents a regulatory approval.

Thanks,

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

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

From: Guzzetti, Christopher [mailto:Guzzetti.Christopher@epa.gov]
Sent: Tuesday, June 17, 2014 6:20 AM
To: Glossbrenner, Ellwood T; Saueressig, Daniel G
Subject: RE: REQUEST FOR CONTAINER STORAGE AREA TO SUPPORT 600-349

I concur as well.

From: Glossbrenner, Ellwood T [ellwood.glossbrenner@rl.doe.gov]
Sent: Monday, June 16, 2014 12:01 PM
To: Saueressig, Daniel G; Guzzetti, Christopher
Subject: RE: REQUEST FOR CONTAINER STORAGE AREA TO SUPPORT 600-349

Chris/Dan,

I concur with this approach.

Ellwood T. Glossbrenner
509-376-5828

From: Saueressig, Daniel G [mailto:daniel.saueressig@wch-rcc.com]
Sent: Monday, June 16, 2014 11:24 AM
To: Guzzetti, Christopher; Glossbrenner, Ellwood T
Subject: REQUEST FOR CONTAINER STORAGE AREA TO SUPPORT 600-349

Chris/Ellwood,

I'd like to request your approval to set up a CERCLA waste container storage area at 600-349 as shown on the aerial photo below. The area could operate for up to 1 year but will likely operate for a much shorter timeframe since 600-149 should finish remediation this fall.

The area would be used to store anomalous material (mainly lead) collected during UXO removal activities at the site prior to being sent offsite for recycle. The container storage area will be managed in compliance with the substantive Washington Administrative Code container management requirements, including WAC 173-303-630 and -646(7).

Let me know if you concur and give me a call if you have any questions.

6/17/2014



Thanks,

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

Attachment 12

300 Area Closure Project Status
July 10, 2014
100/300 Area Combined Unit Manager Meeting

Ongoing Activities

- 309 – Below-grade demolition ongoing. The moderator tank was removed from lower containment and shipped to ERDF for disposal.
- 340 - Continue final remediation of 340 waste sites. Encountered ground water the week of June 2nd.
- 324 – Continue min-safe operations. NHPA Section 106 review of the AREVA off-site mockup location is complete. 300-296 30% retrieval design under review
- Remaining 300 Area Waste Sites – Continue Zone 1 process sewer remediation.
- Final 300 Area ROD RDR/RAWP and SAP undergoing EPA for review and comment.
- Finalizing preparations to stabilize high contamination RRLWS and RLWS piping.
- Initiated demolition of 310 Retention Transfer System.
- Initiated remediation of the 300-7 waste site (early burial ground).
- Initiated remediation of the 300-11 waste site (gasoline release).

Demolition & Remediation Preparation Activities

- Preparing to initiate demolition of the 351 and 352F Substations, and 342 complex.

60-Day Project Look Ahead

- Continue south of Apple waste sites remediation.
- Finalize revision to the 300-FF-2 portion of the RDR/RAWP and SAP.
- Complete stabilization of RRLWS and RLWS piping and initiate remediation.
- Complete 340 Waste Sites remediation.
- Complete Zone 1 process sewer remediation.
- Continue 309 below-grade demolition.

Attachment 13

ESH&QA Mission Completion Project

July 10, 2014

Long-Term Stewardship

- Finalizing the 100-K Area Interim Remedial Action Report, Revision 0 for transmittal to RL and subsequent transmittal to EPA.

300 Area Final Action ROD RDR/RAWP

- Draft A of the 300 Area RDR/RAWP Soil Addendum was submitted to EPA on May 23, 2014. Review comments are anticipated by mid-August.
- Draft A of the revised associated 300 Area soil SAP was provided to EPA on July 7, 2014.

Document Review Look-Ahead

- None