1222766

174304

Please distribute to the following:

100/300 AREA UNIT MANAGER MEETING
ATTENDANCE AND DISTRIBUTION

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

RECEIVED
JAN 16 2013
EDMC

100/300 AREA UNIT MANAGERS MEETING
APPROVAL OF MEETING MINUTES

November 14, 2013

APPROVAL: _____ Date 1/9/14
Mark French, DOE/RL (A6-38)
River Corridor Project Manager

APPROVAL: _____ Date 1/9/2014
Brian Charboneau, DOE/RL (A6-38)
Groundwater Project Manager

APPROVAL: _____ Date 1/9/2014
for Nina Menard, Ecology (H0-57)
Environmental Restoration Project
Manager

APPROVAL: _____ Date 1/9/2014
Laura Buelow, Rod Lobos, or Christopher
Guzzetti, EPA (B1-46)
100 Area Project Manager

APPROVAL: _____ Date 1-9-2014
Larry Gadbois, EPA
(B1-46)
300 Area Project Manager

100 & 300 AREA UNIT MANAGER MEETING MINUTES

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

November 14, 2013

ADMINISTRATIVE

- Next Unit Manager Meeting (UMM) – The next meeting will be held December 12, 2013, 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. Attachment B is a delegation from Nina Menard to Alicia Boyd.
- Approval of Minutes – The September 19, 2013, 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 C).
- Agenda – Attachment D is the meeting agenda.

EXECUTIVE SESSION (Tri-Parties Only)

An Executive Session was not held by RL, EPA, and Ecology prior to the November 14, 2013, UMM.

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

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

> Agreement 1: Attachment 5 provides Tri-Party Agreement (TPA) Change Notice (CN) number TPA-CN-579 modifying DOE/RL-2005-26, Rev. 1, Removal action Work Plan for 105-KE/105-KW Reactor Facilities and Ancillary Facilities, to change the Cold vacuum Drying Facility Air Monitoring Plan to reflect reduced radiological monitoring requirements due to a change in facility mission.

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

Attachment 1 provides status and information for groundwater. Attachment 2 provides status and information for Field Remediation activities. Attachment 6 provides a schedule for Field Remediation at 100-B/C Area. Attachment 7 provides status and information for D4/ISS activities at 100-N, 100-D and 100-B. No issues were identified and no action items were documented.

Agreement 1: Attachment 8 provides Tri-Party Agreement (TPA) Change Notice (CN) number TPA-CN-602 modifying DOE/RL-2009-44, Rev. 0, Sampling and Analysis Plan for the 100-BC-1, 100-BC-2, and 100-BC-5 Operable Units Remedial Investigation/Feasibility Study, to revise Appendix B regarding installation and sampling frequency of shallow aquifer tubes.

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

Attachment 1 provides status and information for groundwater. Attachment 2 provides status and information for Field Remediation activities. Attachment 7 provides status and information for D4/ISS activities at 100-N, 100-D and 100-B. Attachment 9 provides the 100-N Area FR Schedule. Attachment 10 provides a chart showing biovent well sample results for 199-N-171 and 199-N-169. No issues were identified and no action items were documented.

Agreement 1: Attachment 11 provides Ecology's concurrence to add 100-N-104 to the 100-N Air Monitoring Plan.

Agreement 2: Attachment 12 provides Ecology's concurrence to shut down ambient air monitors at 100-D, 100-H, and 100-N.

Agreement 3: Attachment 13 provides DOE's and Ecology's concurrences to place clean inert debris from various 100-N locations into the 182-N subgrade foundation prior to backfill of the area.

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

Attachment 1 provides status and information for groundwater. Attachment 2 provides status and information for Field Remediation activities. Attachment 14 provides the Field Remediation Schedule for 100-D and 100-H. Attachment 7 provides status and information for D4/ISS activities at 100-N, 100-D and 100-B. No issues were identified and no agreements or action items were documented.

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

Attachment 1 provides status and information for groundwater. Attachment 2 provides status and information for Field Remediation activities. Attachment 15 provides the Field Remediation Schedule for IU-2/6. No issues were identified and no action items were documented.

Agreement 1: Attachment 16 provides EPA's approval to set up a temporary container storage area between 100-D and 100-H to support storage of waste from 600-383:4.

Agreement 2: Attachment 17 provides EPA's concurrence regarding the demolition approach of an old transite irrigation pipe at site S4-477 to ensure the category II asbestos will not become crumbled, pulverized, or reduced to powder by the forces expected to act upon it during demolition.

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

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

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

Attachment 1 provides status and information for groundwater. Attachment 18 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 19 provides status and information regarding the Long-Term Stewardship, the 100-K Shoreline Characterization, and a Document Review Look-Ahead. No issues were identified and no agreements or action items were documented.

Attachment A

Hadley, Karl A

From: Menard, Nina (ECY) <nmen461@ECY.WA.GOV>
Sent: Thursday, November 14, 2013 9:25 AM
To: French, Mark S; Charboneau, Briant L
Cc: Welsch, Kim; Boyd, Alicia; Price, John; Hedges, Jane; Crumpler, Joe; Elliott, Wanda; Goswami, Dib; Hendrickson, Michelle; Jackson-Maine, Zelma; Kapell, Arthur; Rochette, Elizabeth; Smith-Jackson, Noe'L; Walmsley, Mign; Yokel, Jerel; Hanson, James P; Hansen, James A (james.hansen@rl.gov); Neath, John P; Ayres, Jeffrey M; Day, Roberta E; Hadley, Karl A; Sands, John P; Price, John; Hedges, Jane
Subject: Delegation of Authority

Mark and Briant,

I will be acting for Cheryl Whalen while she is on extended leave. Therefore, in accordance with Section 4.1 "Project Manager Role", I am delegating my authority as project manager to Alicia Boyd. She will act for me and have signature authority in accordance with the TPA for November 14, 2013 through January 26, 2014.

Alicia can be reached at (509) 372-7934.

Thank you,

Nina M. Menard
WA State Dept of Ecology
509-372-7941 Office
509-420-6839 Cell

Attachment B

100/300 AREA UNIT MANAGER MEETING

ATTENDANCE AND DISTRIBUTION

November 14, 2013

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

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

Clark, Steven W	steven.clark@wch-rcc.com	H4-23	WCH	
Darby, John W	john.darby@wch-rcc.com	L6-06	WCH	
Fancher, Jonathan D (Jon)	jon.fancher@wch-rcc.com	L6-06	WCH	
Faulk, Darrin E	defaulk@wch-rcc.com	L6-06	WCH	
Hadley, Karl A	karl.hadley@wch-rcc.com	H4-21	WCH	
Hedel, Charles W	charles.hedel@wch-rcc.com	H4-22	WCH	
Jacques, Duane	idjacque@wch-rcc.com	H4-22	WCH	
Landon, Roger J	rjlandon@wch-rcc.com	H4-21	WCH	
Lawrence, Barry L	bllawren@wch-rcc.com	T2-03	WCH	
Lerch, Jeffrey A	jeffrey.lerch@wch-rcc.com	H4-22	WCH	
McCurley, Clay D	cdmccurl@wch-rcc.com	X5-50	WCH	
Myer, Robin S	rsmyers@wch-rcc.com	L6-06	WCH	
Obenauer, Dale F	dale.obenauer@wch-rcc.com	X2-05	WCH	
Parnell, Scott E	scott.parnell@wch-rcc.com	N3-21	WCH	
Proctor, Megan	Megan.Proctor@wch-rcc.com	H4-22	WCH	
Saueressig, Daniel G	Daniel.Saueressig@wch-rcc.com	X2-07	WCH	
Strand, Chris	cpstrand@wch-rcc.com	L1-07	WCH	
Strom, Dean N	dean.strom@wch-rcc.com	X3-40	WCH	
Thompson, Wendy	wsthomps@wch-rcc.com	H4-21	WCH	
Thomson, Jill E	thomson@wch-rcc.com	H4-21	WCH	
Wright, Bryan D	bdwright@wch-rcc.com	X3-40	WCH	
Yasek, Donna	Donna.yasek@wch-rcc.com	H4-22	WCH	

Attachment C

100/300 Area UMM
Action List
November 14, 2013

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

Attachment D

100/300 Area Unit Manager Meeting
November 14, 2013
Washington Closure Hanford Building
2620 Fermi Avenue, Richland, WA 99354
Room C209; 2:00p.m.

Administrative:

- Approval and signing of previous meeting minutes (September 19, 2013)
- Update to Action Items List
- Next UMM (12/12/2013, 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

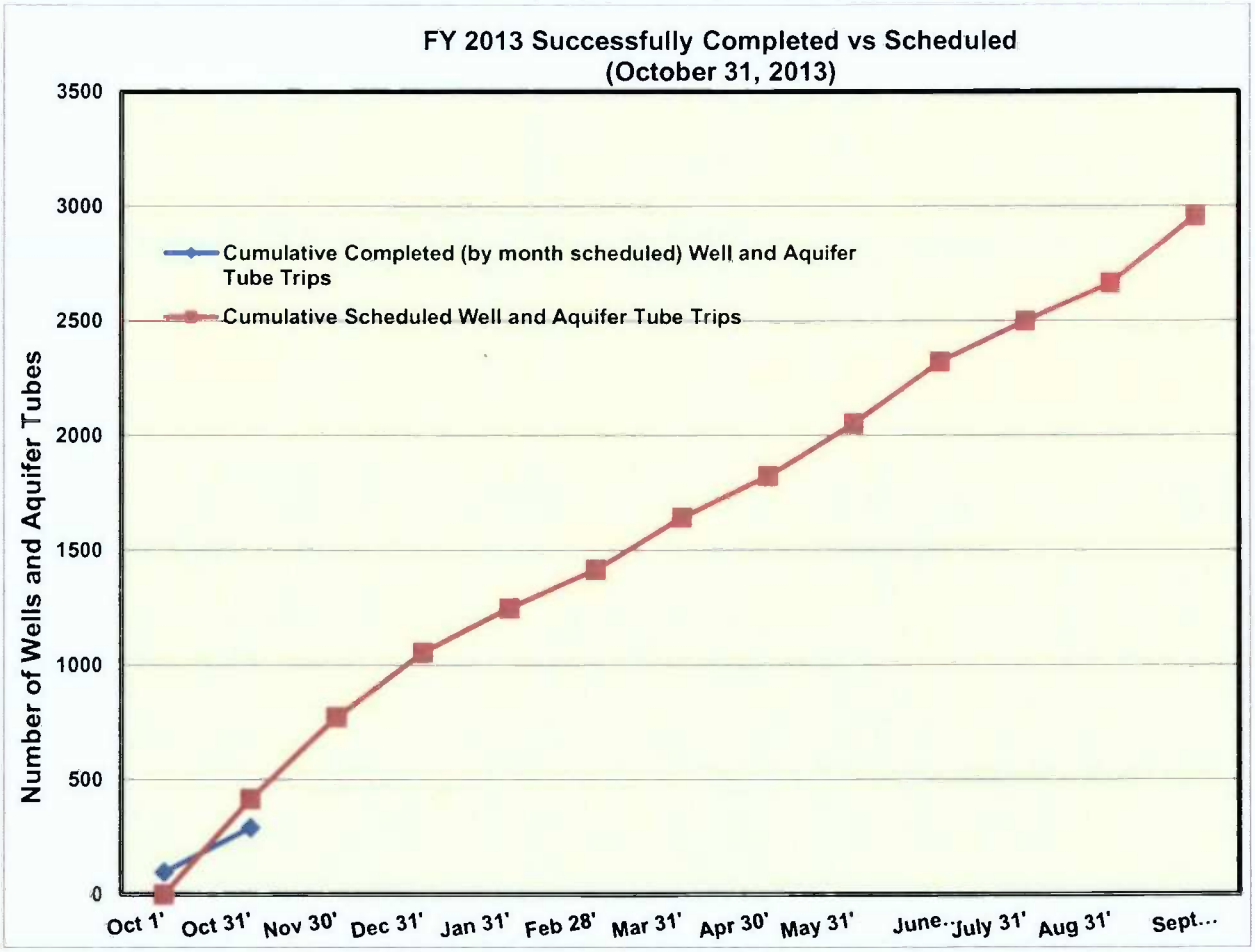
Adjourn

Attachment 1

100/300 Areas Unit Managers Meeting
November 14, 2013

General information on Groundwater Sampling

Hanford's overall Site groundwater monitoring program (river corridor and central plateau) for 2014 has 2,956 samples scheduled for collection. For October 2013 (month one) the program successfully completed 348 groundwater sampling trips of the 416 scheduled for October. Ninety six (96) of these were aquifer tubes collected ahead of schedule in September, and 194 were collected in October, as planned. In addition, 45 sample trips scheduled for November were completed in October (ahead of plan) and 13 trips from various times and locations in FY2013 were completed making an October total successful trips of 348.



The specific wells, aquifer tubes and spring sampled in the river corridor areas during October 2013 are listed in Table 1. Table 2 presents the samples for the river corridor only that were not successfully completed in October. Sample trips scheduled for collection in November 2013 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
November 14, 2013

Table 1. Wells, Aquifer Tubes and Springs in the River Corridor Areas Successfully Sampled in October 2013

100-BC-5	100-FR-3	100-HR-3-D	100-HR-3-H	100-KR-4	100-NR-2	300-FF-5
199-B2-13	199-F5-1	199-D4-13	199-H1-7	100-K SPRING 68-1	199-K-150	C6378
199-B2-15	199-F5-43A	199-D4-15	199-H2-1	100-K SPRING 82-2	199-N-106A	C6380
199-B2-16	199-F5-43B	199-D4-19	199-H3-10	199-K-117A	199-N-189	
199-B3-1	199-F5-44	199-D4-20	199-H3-3	199-K-18	199-N-75	
199-B3-46	199-F5-46	199-D4-5	199-H3-5	199-K-20	25-D	
199-B3-50	199-F5-47	199-D4-6	199-H3-6	199-K-21	26-D	
199-B4-4	199-F5-48	199-D4-78	199-H3-7	22-D	26-M	
199-B4-7	199-F5-52	199-D4-86	199-H3-9	22-M	26-S	
199-B4-8	199-F5-53	199-D5-103	199-H4-12A	23-M	AT-K-6-D	
199-B5-2	199-F5-54	199-D5-106	199-H4-15CP	AT-K-4-M	AT-K-6-M	
199-B5-5	199-F5-55	199-D5-126	199-H4-15CQ	AT-K-4-S	AT-K-6-S	
199-B5-6	199-F5-56	199-D5-13	199-H4-15CR	AT-K-5-D	C6263	
199-B5-8	199-F5-6	199-D5-134	199-H4-15CS	AT-K-5-M	C6264	
199-B8-6	199-F7-1	199-D5-14	199-H4-16	AT-K-5-S	C6265	
199-B9-2	199-F7-2	199-D5-141	199-H4-46	C6260	C6317	
199-B9-3	199-F7-3	199-D5-146	199-H4-49	C6261	C6318	
699-65-83	199-F8-4	199-D5-17	199-H4-6	DK-04-2	C6319	
SEEP 039-2	199-F8-7	199-D5-19	199-H4-85		C6329	
	66-D	199-D5-33	199-H5-1A		C6330	
	66-M	199-D5-34	199-H6-1		C6331	
	66-S	199-D5-36	199-H6-3		C6352	
	67-M	199-D5-37	199-H6-4		C7934	
	67-S	199-D5-97	699-90-45		C7935	
	68-D	199-D8-101	699-91-46A		C7936	
	68-M	199-D8-4			C7937	
	68-S	699-98-49A			C7938	
	699-64-27	C6332			C7939	
	699-66-23	C6333				
	699-71-30	C6334				
	699-77-36					
	699-83-47					
	699-86-42					
	AT-F-1-D					
	AT-F-1-M					
	AT-F-1-S					
	C6311					
	C6312					
	C6314					

100/300 Areas Unit Managers Meeting
November 14, 2013

100-BC-5	100-FR-3	100-HR-3-D	100-HR-3-H	100-KR-4	*100-NR-2	300-FF-5
	C6315					
	C6316					
	SEEP 187-1					

Table 2. Sample Trips Outstanding at the end of October 2013

GWMA	SAMPLE SITE TYPE	SITE NAME	SCHEDULE DATE	[illegible]
100-BC-5	PROPOSED AQUIFER TUBE	C8840	10/1/2013	Installed 10-17-2013
	PROPOSED AQUIFER TUBE	C8841	10/1/2013	Installed 10-17-2013
	PROPOSED AQUIFER TUBE	C8842	10/1/2013	Installed 10-17-2013
	PROPOSED AQUIFER TUBE	C8843	10/1/2013	Installed 10-17-2013
	PROPOSED AQUIFER TUBE	C8844	10/1/2013	Installed 10-17-2013
	PROPOSED AQUIFER TUBE	C8845	10/1/2013	Installed 10-17-2013
	PROPOSED AQUIFER TUBE	C8846	10/1/2013	Installed 10-17-2013
	PROPOSED AQUIFER TUBE	C8847	10/1/2013	Installed 10-17-2013
	PROPOSED AQUIFER TUBE	C8848	10/1/2013	Installed 10-17-2013
	PROPOSED AQUIFER TUBE	C8849	10/1/2013	Installed 10-17-2013
	PROPOSED AQUIFER TUBE	C8851	10/1/2013	Installed 10-17-2013
	PROPOSED AQUIFER TUBE	C8852	10/1/2013	Installed 10-17-2013
	PROPOSED AQUIFER TUBE	C8853	10/1/2013	Installed 10-17-2013
	PROPOSED AQUIFER TUBE	C8855	10/1/2013	Installed 10-17-2013
	PROPOSED AQUIFER TUBE	C8856	10/1/2013	Installed 10-17-2013
	PROPOSED AQUIFER TUBE	C8859	10/1/2013	Installed 10-17-2013
	PROPOSED AQUIFER TUBE	C8860	10/1/2013	Installed 10-17-2013
	PROPOSED AQUIFER TUBE	C8861	10/1/2013	Installed 10-17-2013
	WELL	199-B2-14	10/1/2013	Quarterly
	WELL	199-B3-47	10/1/2013	Quarterly
	WELL	199-B3-51	10/1/2013	Quarterly
	WELL	199-B4-1	10/1/2013	Quarterly
	WELL	199-B4-14	10/1/2013	Not attempted
	WELL	199-B5-1	10/1/2013	Access
	WELL	199-B8-9	10/1/2013	Quarterly
	WELL	699-63-90	10/1/2013	Quarterly
100-FR-3	AQUIFER TUBE	64-S	10/1/2013	Quarterly-Unsuccessful
	AQUIFER TUBE	74-D	10/1/2013	Quarterly
	AQUIFER TUBE	75-D	10/1/2013	Quarterly
	AQUIFER TUBE	76-D	10/1/2013	Quarterly
	AQUIFER TUBE	77-D	10/1/2013	Quarterly

100/300 Areas Unit Managers Meeting
November 14, 2013

GWIA	SAMP_SITE_TYPE	SITE_NAME	SCHEDULE_DATE	Sample Status Comment
	SPRING	100-F SPRING 207-1	10/1/2013	Quarterly
	SPRING	100-K SPRING 68-1	10/1/2012	Missed sample event 2012 project has not cancelled, FY-14 has been successfully sampled.
	SPRING	SEEP 190-4	10/1/2013	Quarterly
	WELL	199-F8-3	10/1/2013	Maintenance required
	WELL	699-58-24	10/1/2013	Quarterly
	WELL	699-81-38	10/1/2013	Quarterly
	WELL	699-87-42A	10/1/2013	Sampled 11-1-2013
100-HR-3-D	SPRING	SD-098-1	9/1/2013	Annual sample event, 3 months to get sampled
	SPRING	SD-110-1	9/1/2013	Annual sample event, 3 months to get sampled
	SPRING	SK-077-1	10/1/2013	Quarterly
	WELL	199-D4-26	10/1/2013	Quarterly
	WELL	199-D4-92	10/1/2013	Quarterly
	WELL	199-D4-93	7/1/2013	Maintenance required
	WELL	199-D4-93	10/1/2013	Maintenance required
	WELL	199-D4-95	10/1/2013	Sampled 11-6-2013
	WELL	199-D4-96	10/1/2013	Sampled 11-6-2013
	WELL	199-D4-97	10/1/2013	Sampled 11-6-2013
	WELL	199-D4-98	10/1/2013	Sample 11-6-2013
	WELL	199-D4-99	10/1/2013	Sampled 11-6-2013
	WELL	199-D5-101	10/1/2013	Sampled 11-6-2013
	WELL	199-D5-104	10/1/2013	Sampled 11-6-2013
	WELL	199-D5-107	10/1/2013	Quarterly
	WELL	199-D5-108	10/1/2013	Quarterly
	WELL	199-D5-109	10/1/2013	Quarterly
	WELL	199-D5-110	10/1/2013	Quarterly
	WELL	199-D5-114	10/1/2013	Quarterly
	WELL	199-D5-115	10/1/2013	Quarterly
	WELL	199-D5-127	10/1/2013	Sampled 11-6-2013
	WELL	199-D5-130	10/1/2013	Sampled 11-6-2013
	WELL	199-D5-131	10/1/2013	Sampled 11-6-2013

100/300 Areas Unit Managers Meeting
November 14, 2013

GWIA	SAMP_SITE_TYPE	SITE_NAME	SCHEDULE_DATE	Sample Status Comment
	WELL	199-D5-20	10/1/2013	Sampled 11-7-2013
	WELL	199-D5-32	10/1/2013	Sampled 11-7-2013
	WELL	199-D5-39	10/1/2013	Sampled 11-7-2013
	WELL	199-D7-3	10/1/2013	Sampled 11-6-2013
	WELL	199-D7-6	10/1/2013	Sampled 11-6-2013
	WELL	199-D8-6	10/1/2013	Quarterly
	WELL	199-D8-68	3/1/2013	Maintenance required
	WELL	199-D8-72	3/1/2013	Maintenance required
	WELL	199-D8-72	6/1/2013	Maintenance required
	WELL	199-D8-72	9/1/2013	Maintenance required
	WELL	199-D8-89	10/1/2013	Sampled 11-7-2013
	WELL	199-D8-90	10/1/2013	Sampled 11-6-2013
	WELL	199-D8-91	10/1/2013	Sampled 11-6-2013
	WELL	199-D8-95	10/1/2013	Sampled 11-6-2013
	WELL	199-D8-96	10/1/2013	Sampled 11-6-2013
	WELL	199-D8-97	10/1/2013	Sampled 11-6-2013
	WELL	199-D8-98	10/1/2013	Sampled 11-6-2013
	WELL	199-H1-5	9/1/2013	Not attempted
	WELL	699-97-48B	10/1/2013	Sampled 11-1-2013
100-HR-3-H	WELL	199-H4-4	10/1/2013	Quarterly
	WELL	699-100-43B	10/1/2013	Sampled 11-1-2013
	WELL	699-101-45	10/1/2013	Sampled 11-1-2013
	WELL	699-88-41	10/1/2013	Sampled 11-1-2013
	WELL	699-96-43	10/1/2013	Quarterly
	WELL	699-97-43B	10/1/2013	Sampled 11-1-2013
	WELL	699-97-45	10/1/2013	Sampled 11-1-2013
	WELL	699-98-43	10/1/2013	Sampled 11-1-2013
100-KR-4	WELL	199-K-130	10/1/2013	Quarterly
	WELL	199-K-152	10/1/2013	Quarterly
	WELL	199-K-165	10/1/2013	Quarterly
	WELL	199-K-166	10/1/2013	Quarterly
	WELL	199-K-173	10/1/2013	Quarterly

100/300 Areas Unit Managers Meeting
November 14, 2013

GWIA	SAMP_SITE_TYPE	SITE_NAME	SCHEDULE_DATE	Sample Status Comment
	WELL	199-K-34	10/1/2013	Sampled 11-4-2013
100-NR-2	AQUIFER TUBE	C6132	02-Oct-13	Quarterly
	AQUIFER TUBE	C6135	02-Oct-13	Quarterly
	AQUIFER TUBE	N116mArray-0A	02-Oct-13	Quarterly
	AQUIFER TUBE	N116mArray-13A	9/1/2013	Quarterly was sent to field and they didn't get to it so was reprinted for 9-5-13
	AQUIFER TUBE	N116mArray-8.5A	9/1/2013	Quarterly - it was sent out to the field and they didn't get to it so was reprinted for 9-5-13
	WELL	199-K-151	10/1/2013	Quarterly
	WELL	199-N-122	9/1/2013	Quarterly not on WAL in Sept. Added back 10-16-13
	WELL	199-N-123	9/1/2013	Quarterly not on WAL in Sept. Added back 10-16-13
	WELL	199-N-147	9/1/2013	Quarterly not on WAL in Sept. Added back 10-16-13
	WELL	199-N-169	02-Oct-13	Quarterly
	WELL	199-N-171	02-Oct-13	Quarterly
	WELL	199-N-173	9/1/2013	Not on WAL in Sept. Added back 10-16-13
	WELL	199-N-173	02-Oct-13	Quarterly
	WELL	199-N-183	02-Oct-13	Quarterly
	WELL	199-N-185	9/1/2013	Quarterly not on WAL in Sept. Added back to the WAL 10-16-13
	WELL	199-N-19	02-Oct-13	Quarterly
	WELL	199-N-3	02-Oct-13	Quarterly
	WELL	199-N-41	9/1/2013	Quarterly
	WELL	199-N-56	02-Oct-13	Quarterly
	WELL	199-N-96A	02-Oct-13	Quarterly
	WELL	699-87-55	10/1/2013	Sampled 11-1-2013
300-FF-5	AQUIFER TUBE	C6368	10/1/2013	Quarterly
	AQUIFER TUBE	C6371	10/1/2013	Quarterly
	AQUIFER TUBE	C6374	10/1/2013	Quarterly

GWIA	SAMP SITE TYPE	SITE NAME	SCHEDULE DATE	Sample Status Comment
	AQUIFER TUBE	C6375	10/1/2013	Quarterly
	WELL	399-1-63	9/1/2013	Maintenance required
	WELL	399-3-19	9/1/2013	Maintenance required
	WELL	399-6-5	9/1/2013	Quarterly
	WELL	699-12-2C	10/1/2013	Quarterly
	WELL	699-12-4D	10/1/2013	Quarterly
	WELL	699-13-0A	10/1/2013	Quarterly
	WELL	699-13-1E	10/1/2013	Quarterly
	WELL	699-13-2D	10/1/2013	Quarterly
	WELL	699-13-3A	10/1/2013	Quarterly
	WELL	699-S3-E12	10/1/2013	Quarterly
	WELL	699-S6-E4B	12/1/2012	Access
	WELL	699-S6-E4B	6/1/2013	Access

Table 3. Groundwater Sampling Locations in the River Corridor Areas Scheduled to be Sampled in November 2013

100-BC-5	100-FR-3	100-HR-3-D	100-HR-3-H	100-KR-4	100-NR-2	300-FF-5
199-B4-14		100-H SPRING 145-1	199-H1-32	199-K-106A	199-K-131	
C8840		100-H SPRING 150-1	199-H1-33	199-K-107A	199-K-149	
C8841		100-H SPRING 152-2	199-H1-35	199-K-108A	199-K-150	
C8842		100-H SPRING 153-1	199-H1-37	199-K-11	C7935	
C8843		199-D2-11	199-H1-38	199-K-110A	C7936	
C8844		199-D2-6	199-H1-40	199-K-111A		
C8847		199-D3-5	199-H3-4	199-K-112A		
C8848		199-D4-39	199-H4-11	199-K-113A		
C8851		199-D4-83	199-H4-12C	199-K-114A		
C8852		199-D5-103	199-H4-15A	199-K-115A		
C8855		199-D5-104	199-H4-4	199-K-116A		
C8856		199-D5-106	199-H4-65	199-K-118A		
C8859		199-D5-132	199-H4-8	199-K-119A		
C8860		199-D5-133	199-H4-84	199-K-120A		
C8861		199-D5-142	199-H4-86	199-K-124A		
		199-D5-143	44-M	199-K-125A		
		199-D5-145	45-D	199-K-127		
		199-D5-146	45-M	199-K-129		

100/300 Areas Unit Managers Meeting
November 14, 2013

100-BC-5	100-FR-3	100-HR-3-D	100-HR-3-H	100-KR-4	100-NR-2	300-FF-5
		199-D5-147	45-S	199-K-13		
		199-D5-148	47-D	199-K-132		
		199-D5-149	47-M	199-K-133		
		199-D5-18	48-M	199-K-134		
		199-D5-34	48-S	199-K-135		
		199-D5-39	49-D	199-K-136		
		199-D5-40	50-M	199-K-137		
		199-D5-41	50-S	199-K-138		
		199-D5-92	51-D	199-K-139		
		199-D5-97	51-M	199-K-140		
		199-D6-3	51-S	199-K-141		
		199-D8-71	52-D	199-K-142		
		36-D	52-M	199-K-144		
		36-M	52-S	199-K-145		
		36-S	54-D	199-K-146		
		38-D	54-M	199-K-147		
		38-M	54-S	199-K-148		
		699-93-48A	699-94-41	199-K-153		
		699-95-48	699-94-43	199-K-154		
		699-95-51	699-95-45	199-K-157		
		699-96-52B	699-97-41	199-K-161		
		699-97-48C	699-97-43C	199-K-162		
		699-97-51A	699-97-45B	199-K-163		
		699-98-51	699-98-46	199-K-168		
		AT-D-1-D	699-99-41	199-K-171		
		AT-D-1-M	699-99-44	199-K-178		
		AT-D-1-S	AT-H-1-D	199-K-181		
		AT-D-2-M	AT-H-1-M	199-K-182		
		AT-D-2-S	AT-H-1-S	199-K-184		
		AT-D-3-D	AT-H-2-D	199-K-185		
		AT-D-3-M	AT-H-2-M	199-K-186		
		AT-D-3-S	AT-H-2-S	199-K-187		
		AT-D-4-D	AT-H-3-D	199-K-188		
		AT-D-4-M	AT-H-3-S	199-K-189		
		AT-D-4-S	C5632	199-K-19		
		AT-D-5-D	C5633	199-K-190		
		AT-D-5-M	C5634	199-K-191		
		C6266	C5635	199-K-192		
		C6267	C5636	199-K-193		
		C6268	C5637	199-K-194		
		C6269	C5638	199-K-196		

100/300 Areas Unit Managers Meeting
November 14, 2013

100-BC-5	100-FR-3	100-HR-3-D	100-HR-3-H	100-KR-4	100-NR-2	300-FF-5
		C6270	C5641	199-K-197		
		C6271	C5644	199-K-198		
		C6272	C5673	199-K-199		
		C6275	C5674	199-K-200		
		C6278	C5676	199-K-201		
		C6281	C5677	199-K-22		
		C6282	C5678	199-K-23		
		C7645	C5679	199-K-32A		
		C7646	C5680	199-K-32B		
		C7647	C5681	199-K-36		
		C7648	C5682	199-K-37		
		DD-06-2	C6284	699-78-62		
		DD-06-3	C6285			
		DD-12-2	C6286			
		DD-12-4	C6287			
		DD-15-2	C6288			
		DD-15-3	C6290			
		DD-15-4	C6291			
		DD-16-3	C6293			
		DD-16-4	C6296			
		DD-17-2	C6297			
		DD-17-3	C6299			
		DD-39-1	C6300			
		DD-41-1	C6301			
		DD-41-2	C7649			
		DD-41-3	C7650			
		DD-42-2	SH-144-1			
		DD-42-3				
		DD-42-4				
		DD-43-2				
		DD-43-3				
		DD-44-3				
		DD-44-4				
		DD-49-1				
		DD-49-2				
		DD-49-3				
		DD-49-4				
		DD-50-1				
		DD-50-2				
		DD-50-3				
		DD-50-4				

100-BC-5	100-FR-3	100-HR-3-D	100-HR-3-H	100-KR-4	100-NR-2	300-FF-5
		Redox-1-3.3				
		Redox-1-6.0				
		Redox-2-6.0				
		Redox-3-3.3				
		Redox-3-4.6				
		Redox-4-3.0				
		Redox-4-6.0				
		SD-110-2				

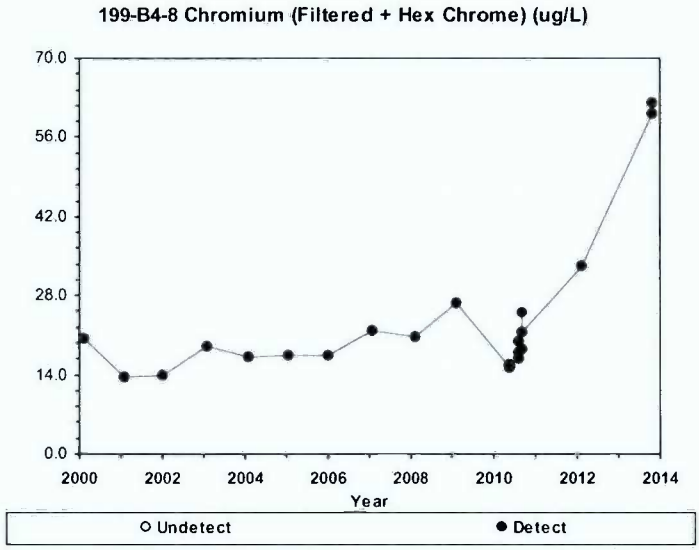
General Information on Annual Reports – Bill Faught/Naomi Bland

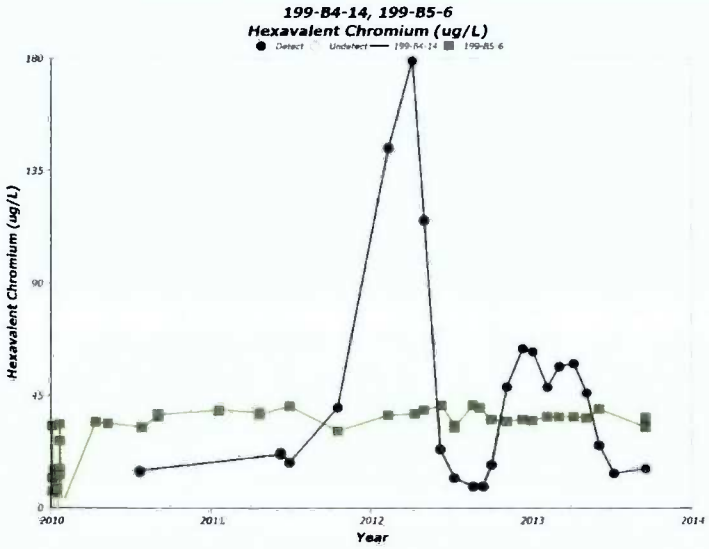
The 2013 Annual Groundwater Monitoring Report will begin upgrades to the new web-based application in November so it can be used in January for the report.

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

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

- CERCLA Process Implementation:
  - Drilling of new wells continued in October, with four rigs working.
  - 18 of the planned 22 hyporheic sampling points (shallow aquifer tubes) were successfully installed in October. All 14 of the planned 0.5-m tubes were installed, but 3 of the 2-m tubes and one of the 1-m tubes could not be installed. DOE and EPA have agreed on a path forward that is documented in a TPA change notice to the SAP (TPA-CN-602).
  -
- Monitoring & Reporting
  - High-frequency sampling of 8 HSPs began the last week in October and will continue through November. All 18 HSPs will be sampled (single samples) for the semiannual campaign after that.
  - Seventeen of the 25 monitoring wells were sampled as scheduled in October.
  - Data from the conventional aquifer tubes sampled in September were loaded into HEIS. Conductivity and Cr(VI) concentrations are consistent with previous results. The highest Cr(VI) concentration was 39 µg/L in 06-M.
  - Data from several 100-BC wells sampled in September were loaded into HEIS. Some Cr(VI) results from October also have been loaded. Results are consistent with movement of the southern 100-BC Cr(VI) plume toward the northeast – concentrations have increased in 199-B4-4, B4-7, and B4-8, with several concentrations above 48 µg/L. The highest concentration was 60 µg/L in 199-B4-8, located northeast of B Reactor. Near 100-C-7:1, concentrations in 199-B4-14 (16 ug/L; water table) and 199-B5-6 (35 ug/L; bottom of aquifer) remained consistent with previous results.
  -


199-B4-8 Chromium (Filtered + Hex Chrome) (ug/L)
70.0
56.0
42.0
28.0
14.0
0.0
2000
2002
2004
2006
2008
2010
2012
2014
Year
Undetect
Detect


199-B4-14, 199-B5-6
Hexavalent Chromium (ug/L)
Hexavalent Chromium (ug/L)
180
135
90
45
0
2010
2011
2012
2013
2014
Year

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

- CERCLA Process Implementation
  - RI/FS and Proposed Plan: Production of both documents is on hold until path forward is agreed to by RL and EPA regarding:
    - Data gaps/data needs resolution at waste sites in proximity to the 100-K East Reactor
    - Data gaps/data needs resolution at 100-K-111 and 100-K-64 near the river
  - RD/RAWP: Conducting Decisional Draft review.
  - Operations and Maintenance Plan: Initiated document preparation
- Remedial Actions & System Modifications
  - Operations continue at KX, KR-4, and KW pump-and-treat systems. October 2013 performance:
    - The systems treated 46.94 million gallons.
    - The system removed 4.09 kg of hexavalent chromium.
  - Completed well realignment field construction activities on 199-K-198 and 199-K-199 (KR4) and 199-K-181 (KX) on November 6, 2013; minor punch list items remain prior to initiating operational testing.
- Monitoring and Reporting
  - Monitoring Plan: Completing document updates and preparing for project team review.
  - Well Installation SAP (DOE/RL-2013-36): Completed Addendum 2, Rev. 0, and received final regulatory signatures on October 28, 2013.
  - 199-K-202: Completed construction and final development on November 5, 2013
  - 199-K-205: Initiated construction on October 29, 2013
  - 199-K-206: Completed drilling on October 9, 2013

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 have been prepared and will begin RL review during the week of November 11th.
  - Responses are being prepared to Ecology's comments on Rev. 1 Draft A of the Remedial Design/Remedial Action Work Plan (DOE/RL-2001-27). The RD/RAWP was revised to support the interim ROD amendment.
  - The report is being prepared on the apatite barrier extension completed in 2011 in accordance with the design optimization study.
- Monitoring & Reporting:
  - Samples were collected from aquifer tubes C7935 and C7936 on August 6, 2013, per Action No. 100-98. Concentrations increased slightly (to 51,000 pCi/L in C7935 and to 38,000 pCi/L in C7936) (Figure 100NR2-1). These two aquifer tubes were sampled on October 7, 2013 for tritium and strontium-90; results are

not yet available. The locations of aquifer tubes C7935 and C7936 are shown on Figure 100NR2-2.

- As identified in Table 1, 19 additional aquifer tubes were sampled in September and October.
- As of November 4, 47 of the 53 wells scheduled for CERCLA and RCRA sampling in September had been sampled. As of November 4, 19 of the 22 apatite barrier monitoring wells and aquifer tubes had been sampled.

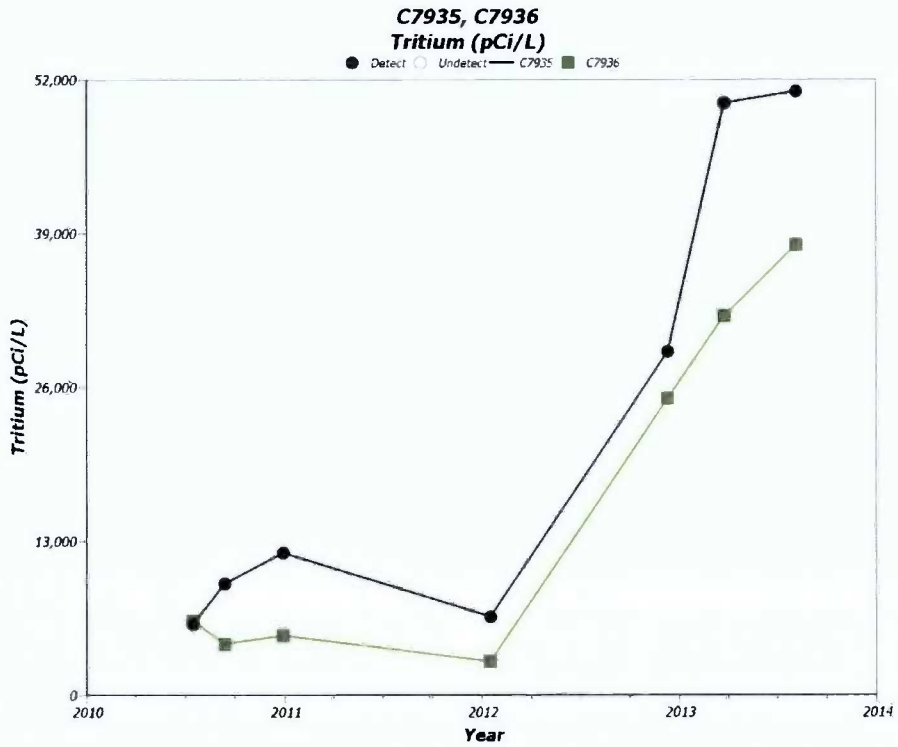


Figure 100NR2-1. Tritium Trends (through August 6, 2013) at Aquifer Tubes C7935 and C7936 in the 100-NR-2 OU.

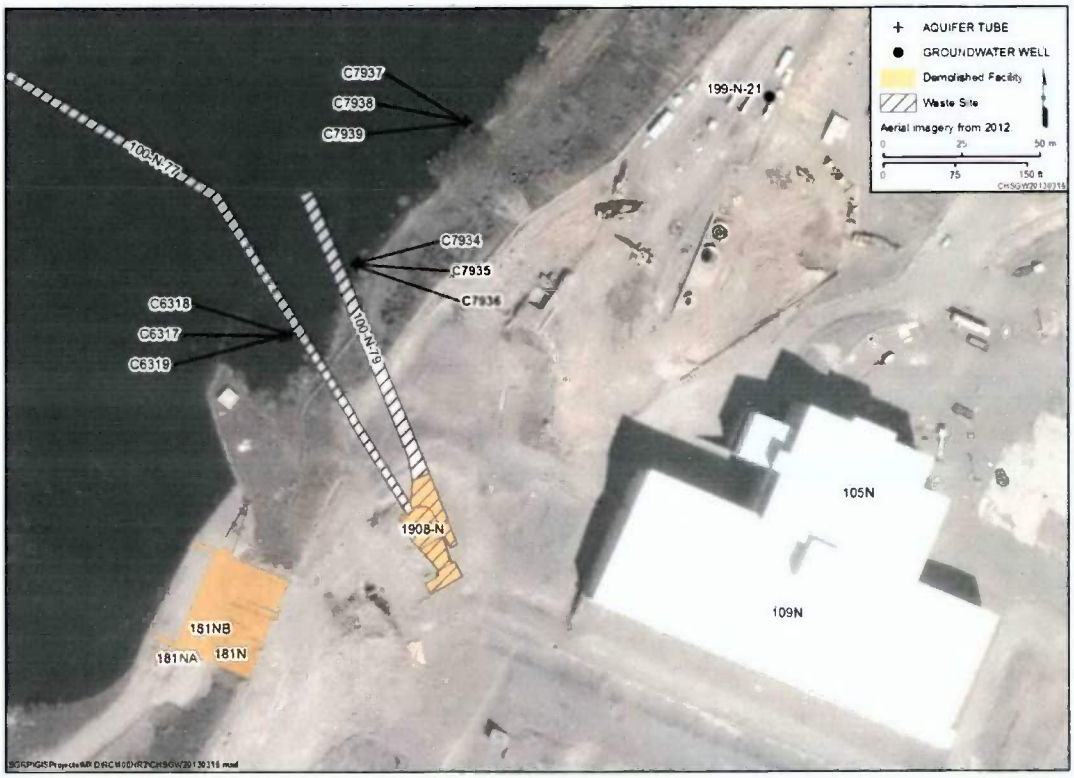
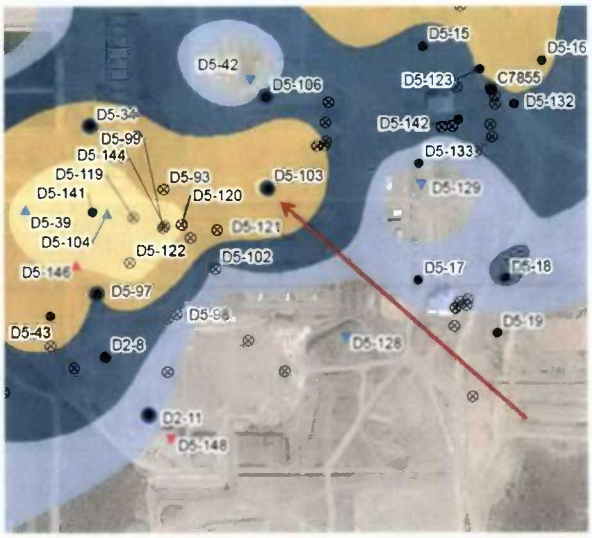


Figure 100NR2-2. Locations of Aquifer Tubes C7935 and C7936.

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

- CERCLA Process Implementation:
  - RI/FS & PP: Continuing comment resolution and document updates; comment closure or conceptual agreement has been reached with Ecology on 87% of the comment responses. The remaining 13% are in varying stages of review by RL or Ecology or are in preparation by PRC.
  - RD/RAWP: Conducting Decisional Draft review
  - Operations and Maintenance Plan: Initiated document preparation
- Remedial Actions and System Modifications
  - Operations continue at DX and HX pump-and-treat system. October 2013 performance:
    - The systems treated 49.4 million gallons
    - The system removed 24.3 kg of hexavalent chromium.
  - Conducted 199-D5-146 and 199-D5-153 well realignment (DX extraction) field walk down on October 24, 2013; initiated design changes.

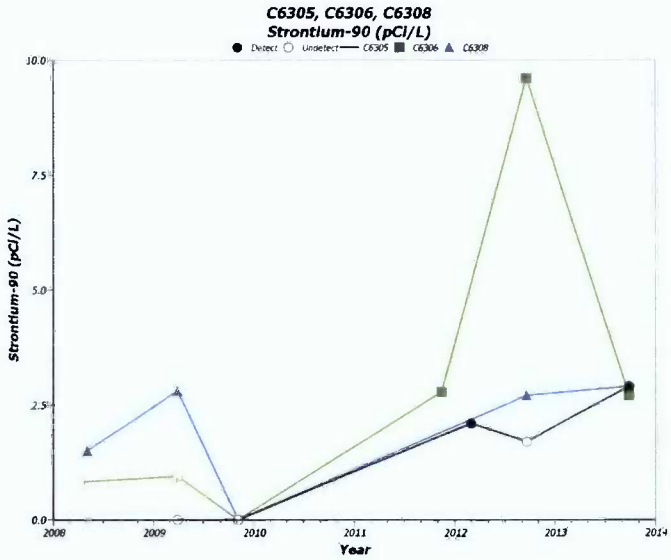


- Monitoring & Reporting
  - Monitoring Plan: Completing document updates and preparing for Decisional Draft review
  - Well Installation SAP (DOE/RL-2013-35): Completed Addendum 2, Rev. 0, and received final regulatory signatures on November 1, 2013.
  - Wells 199-H4-90, 199-H4-91, 199-D5-153, and 199-D5-154 are completed with initial well development done; well acceptance is in progress
  - Hexavalent chromium concentrations in Well 199-D5-103, near the 100-D-104 waste site remediation, have increased to over 1,500 µg/L in September and October of 2013, from about 670 µg/L in December of 2012. The team is evaluating if modifications are necessary.

100/300 Areas Unit Managers Meeting
November 14, 2013

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

- CERCLA Process Implementation:
  - Completed RL and local EPA comment response and delivered the "Long Version" and "Short Version" Working Draft Rev. 0 Proposed Plan (DOE/RL-2012-41) to EPA. EPA legal review of the proposed plan is expected to begin toward the end of the calendar year. The public comment period for the Proposed Plan is currently scheduled for February 2013.
  - Resolved RL and local EPA comments on the RI/FS (DOE/RL-2010-98) and the team is completing the Rev. 0 version.
- Monitoring & Reporting
  - 24 of 27 monitoring wells were sampled as planned in October. The others will be sampled when resources permit.
  - 26 of 31 aquifer tubes were sampled in September and October. The others will be sampled when resources permit. The strontium-90 concentration in C6306 declined to 2.7 pCi/L after exceeding the DWS in 2012 (9.6 pCi/L). The 2012 result was the only strontium-90 exceedance observed in a 100-F aquifer tube.



300-FF-5 Groundwater Operable Unit – Curt Wittreich/Virginia Rohay

- CERCLA Process Implementation:
  - The public review of the Proposed Plan was completed on September 16, 2013.
  - The Record of Decision is being prepared by EPA with support from RL and CHPRC.
- Monitoring & Reporting
  - The 300-FF-5 Groundwater OU includes the groundwater impacted by releases from waste sites associated with three geographic subregions: 300 Area Industrial Complex, 618-11 Burial Ground, and 618-10 Burial Ground/316-4 Cribs.
    - 300 Area Industrial Complex — As of November 4, 2013, 37 of the 40 wells that were scheduled to be sampled in September had been sampled.
    - 618-11 Burial Ground — As of November 4, the one well scheduled to be

sampled in September had been sampled. None of the six wells scheduled for sampling in October had been sampled.

- 618-10 Burial Ground/316-4 Crib — Groundwater data from August 21, 2013 at well 699-S6-E4L near the 618-10 Burial Ground showed lower concentrations of uranium and of magnesium and calcium (common soil fixatives) than detected in January through May 2013 (Figure 300FF5-2). The increase in the uranium concentration may be associated with the excavation activities that began in March 2011 at some of the trenches in the burial ground. Well 699-S6-E4K also was sampled on August 21, 2013. Results for uranium, magnesium, and calcium were consistent with previous results. As of September 30, 2013, both of these wells, which were scheduled to be sampled in September, had been sampled. The next sampling event is scheduled for December 2013.

- RCRA Monitoring – 300 Area Process Trenches (316-5)
  - The next sampling event is scheduled for December 2013.
- 300 Area Aquifer Tubes
  - The next sampling event is scheduled for December 2013.

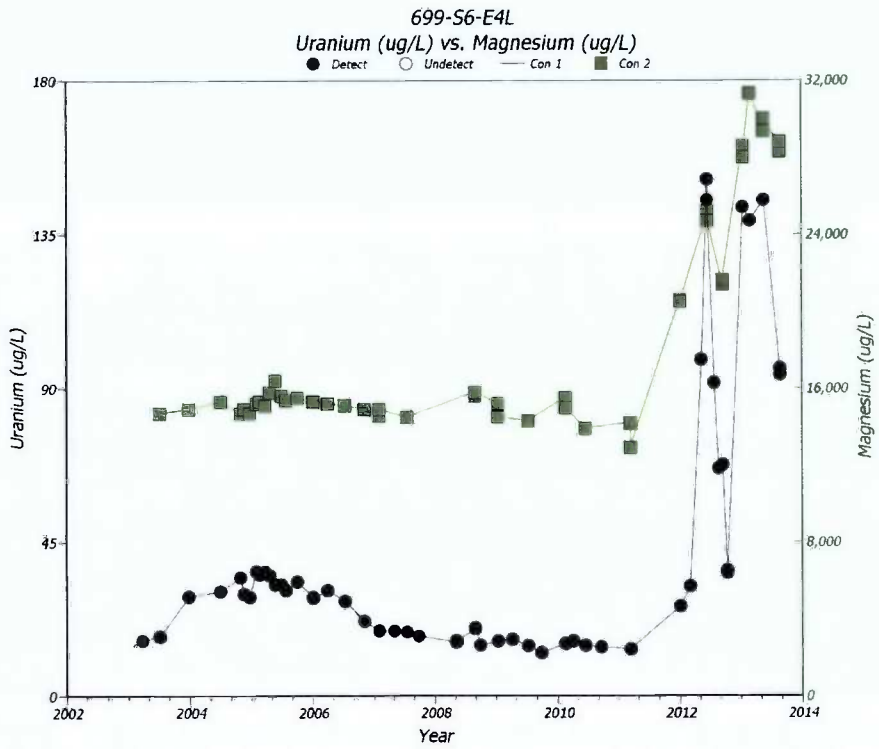


Figure 300FF5-2. Uranium and Magnesium Trends (through August 21, 2013) at Well 699-S6-E4L at the 618-10 Burial Ground.

Attachment 2

Nobvember14, 2013 Unit Manager's Meeting
Field Remediation Status

100-B/C

- Closure documentation for 100-C-7:1 expected for completion before end of February 2014
- Continued backfill activities at 100-C-7:1

100-D

- Continued remediation and layback removal at 100-D-100
- Continued remediation and layback removal at 100-D-30/104
- Collected verification samples at 100-D-50:7
- Continued super-dump load-out to ERDF

100-H

- Continued excavation and load-out activities at 100-H-28:2-5
- Continued stockpile load-out to ERDF

100-K

- Continued preparation of close-out documentation for all 100-K TPA milestone sites
- Continued preparation of subcontract documents for upcoming backfill campaign

100-N

- Continued remediation of 100-N-84:2 and 100-N-84:5
- Completed remediation of 100-N-54, 100-N-81 and 100-N-101 pending favorable sample results
- Began remediation of 100-N-91, 100-N-97, and 100-N-100
- Continued system operations for in-situ bioremediation system for UPR-100-N-17, deep vadose zone remediation
- Continued preparation of closure documents and conducting verification sampling

618-10 Trench Remediation

- Continued excavation and sorting of trench area
- Continued waste load out
- Continued drum characterization & handling activities

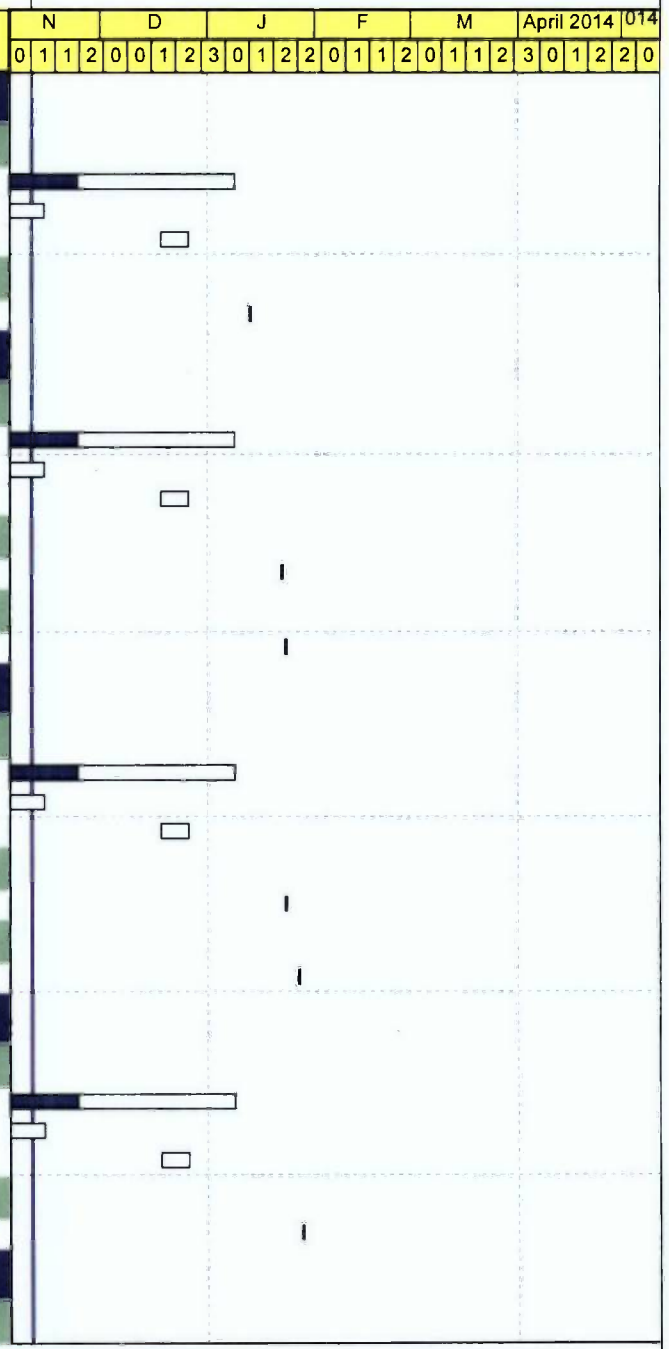
100-IU-2/6

- Completed excavation and load-out activities at 600-279, 600-373, 600-374, 600-375 and 600-376 pending favorable sample results
- Continued Remediation of 600-382, 600-383 and 600-384
- Collected closeout samples at 600-373, 600-374, 600-375 and 600-376

Attachment 3

UMM K SCHEDULE

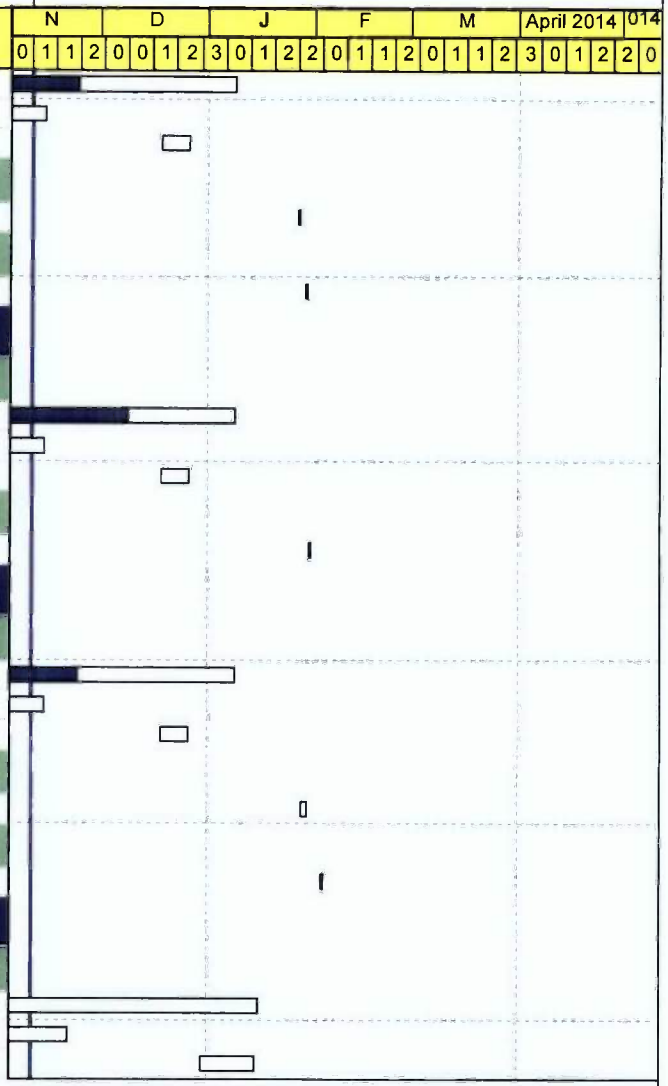
Activity ID	Activity Name	% Cmpl	RD	Start	Finish
100-K-84 Red Soil Sw. of 118-K-1					
Final Project Closeout					
RK084D33	Prepare Closure Document	76%	30	03-Jul-13 A	08-Jan-14
RK084D19	RL/Reg Review Draft A Closure Document for - 100-K-84	50%	4	10-Sep-13 A	14-Nov-13
RK084D21	RL/Reg Sign Rev. 0 Closure Document for - 100-K-84	0%	4	18-Dec-13	26-Dec-13
Revegetation					
RK084E2	Revegetation - -100-K-84 (2.3 Acres)	0%	1	13-Jan-14*	13-Jan-14
100-K-86 - Stained Areas					
Final Project Closeout					
RK084D43	Prepare Closure Document	76%	30	03-Jul-13 A	08-Jan-14
RK086D19	RL/Reg Review Draft A Closure Document for - 100-K-86	50%	4	10-Sep-13 A	14-Nov-13
RK086D21	RL/Reg Sign Rev. 0 Closure Document for - 100-K-86	0%	4	18-Dec-13	26-Dec-13
Backfill					
RK086C	Backfill - 100-K-86 (134 BCMs)	0%	1	22-Jan-14*	22-Jan-14
Revegetation					
RK086E2	Revegetation - -100-K-86 (0.74 Acres)	0%	1	23-Jan-14*	23-Jan-14
100-K-87 Asbestos					
Final Project Closeout					
RK084D53	Prepare Closure Document	76%	30	03-Jul-13 A	08-Jan-14
RK087D19	RL/Reg Review Draft A Closure Document for - 100-K-87	50%	4	10-Sep-13 A	14-Nov-13
RK087D21	RL/Reg Sign Rev. 0 Closure Document for - 100-K-87	0%	4	18-Dec-13	26-Dec-13
Backfill					
RK087C	Backfill - 100-K-87 (0.48 BCMs)	0%	1	23-Jan-14*	23-Jan-14
Revegetation					
RK087E2	Revegetation - -100-K-87 (0.1 Acres)	0%	1	27-Jan-14*	27-Jan-14
100-K-91 - Battery					
Final Project Closeout					
RK084D63	Prepare Closure Document	76%	30	03-Jul-13 A	08-Jan-14
RK091D19	RL/Reg Review Draft A Closure Document for - 100-K-91	50%	4	10-Sep-13 A	14-Nov-13
RK091D21	RL/Reg Sign Rev. 0 Closure Document for - 100-K-91	0%	4	18-Dec-13	26-Dec-13
Revegetation					
RK091E2	Revegetation - -100-K-91 (0.1 Acres)	0%	1	28-Jan-14*	28-Jan-14
100-K-92 - Reddish Stained Gravels					
Final Project Closeout					



Current Bar Labels ▬ % Complete ◆ ◆

UMM K SCHEDULE

Activity ID	Activity Name	% Cmpl	RD	Start	Finish
RK084D73	Prepare Closure Document	76%	30	03-Jul-13 A	08-Jan-14
RK092D19	RL/Reg Review Draft A Closure Document for - 100-K-92	50%	4	10-Sep-13 A	14-Nov-13
RK092D21	RL/Reg Sign Rev. 0 Closure Document for - 100-K-92	0%	4	18-Dec-13	26-Dec-13
Backfill					
RK092C	Backfill - 100-K-92 (7 BCMs)	0%	1	27-Jan-14*	27-Jan-14
Revegetation					
RK092E2	Revegetation - -100-K-92 (1.57 Acres)	0%	1	29-Jan-14*	29-Jan-14
100-K-93 - Drum Remnant					
Final Project Closeout					
RK084D83	Prepare Closure Document	76%	30	03-Sep-13 A	08-Jan-14
RK093D19	RL/Reg Review Draft A Closure Document for - 100-K-93	50%	4	02-Oct-13 A	14-Nov-13
RK093D21	RL/Reg Sign Rev. 0 Closure Document for - 100-K-93	0%	4	18-Dec-13	26-Dec-13
Revegetation					
RK093E2	Revegetation - -100-K-93 (0.1 Acres)	0%	1	30-Jan-14*	30-Jan-14
100-K-95 - Tar Dump					
Final Project Closeout					
RK084D93	Prepare Closure Document	76%	30	03-Jul-13 A	08-Jan-14
RK095D19	RL/Reg Review Draft A Closure Document for - 100-K-95	50%	4	10-Sep-13 A	14-Nov-13
RK095D21	RL/Reg Sign Rev. 0 Closure Document for - 100-K-95	0%	4	18-Dec-13	26-Dec-13
Backfill					
RK095C	Backfill - 100-K-95 (118.6 BCMs)	0%	2	28-Jan-14*	29-Jan-14
Revegetation					
RK095E2	Revegetation - -100-K-95 (0.3 Acres)	0%	1	03-Feb-14*	03-Feb-14
118-K-1 Burial Ground					
Final Project Closeout					
RK18K12030	Prepare Closure Document 118-K-1	76%	34	04-Dec-12 A	15-Jan-14
RK18K12062	RL/Reg Review Draft A Closure Document for - 118-K-1	20%	8	07-Oct-13 A	21-Nov-13
RK18K12052	RL/Reg Sign Rev. 0 Closure Document for - 118-K-1	0%	9	30-Dec-13	14-Jan-14



Current Bar Labels % Complete

Attachment 4

100K Area Unit Managers Meeting
November 14, 2013

RL-0012 Sludge Treatment Project

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-016-174, Complete Final Design of Sludge Retrieval and Transfer System (9/30/13) - Complete

- DOE issued the notification letter to EPA stating that ECRTS final design and M-016-174 are complete.

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

- Annex construction has re-started with 205 yards of concrete placed in building walls and foundations. The balance of concrete placement is planned to complete by the end of December. Fabrication of building structural steel has started and the overhead crane has been fabricated and delivered.
- The Integrated Process Optimization Demonstration continues at MASF.

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

- 105-K West Basin legacy system pre-deactivation planned for FY 2013 (settler tank removal and canister cleaning equipment) was completed in September.

RL-0041 K Facility Demolition and Soil Remediation

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

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

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

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

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

Other Information

- No demolition or soil remediation activities were conducted at100K during September and October.

Attachment 5

1222077

TRI-PARTY AGREEMENT

Change Notice Number TPA-CN- 579	TPA CHANGE NOTICE FORM	Date: October 18, 2013
Document Number, Title, and Revision: DOE/RL-2005-26, Rev. 1, Removal Action Work Plan for 105-KE/105-KW Reactor Facilities and Ancillary Facilities 0072338		Date Document Last Issued: March 2007
Originator: DJ Watson		Phone: 376-5532

Description of Change:
Change in Cold Vacuum Drying Facility (CVDF) Air Monitoring Plan to reflect reduced radiological monitoring requirements due to change in facility mission.

R. A. Quintero (**DOE**) and R. Lobos (**Lead Regulatory Agency**) agree that the proposed change modifies an approved workplan/document and will be processed in accordance with the Tri-Party Agreement Action Plan, Section 9.0, *Documentation and Records,* and not Chapter 12.0, *Changes to the Agreement.*

Changes to pages C-6 and C-7 of DOE/RL-2005-26, Rev. 1, to modify the requirements for air monitoring for the CVDF, are reflected in the revised text on the following pages of this change notice. Text to be deleted is shown in ~~strikethrough~~.

Note: Include affected page number(s)

Justification and Impacts of Change:
The mission and regulatory framework of the 142-K CVDF has changed from an operating nuclear facility for drying spent nuclear fuel, under the auspice of NEPA and radioactive air emissions permits, to an operations and maintenance support facility for 100-K CERCLA response actions. This mission change has greatly reduced the potential-to-emit radiological constituents, allowing a reduction in radiological air monitoring.

RECEIVED
NOV 05 2013
EDMC

Approvals:

R. A. Quintero RA Quintero DOE Project Manager	10/22/13 Date	[X] Approved [ ] Disapproved
R. Lobos EPA Project Manager	11-5-13 Date	[X] Approved [ ] Disapproved
N/A Ecology Project Manager	Date	[ ] Approved [ ] Disapproved

A-6005-413 (REV 1)

100-KR-2

C.5 OPERATION OF ACTIVE EMISSION POINTS

~~In the event that emission point operations continue after initiation of CERCLA activities at a specific facility, the existing emission controls and air monitoring systems on the stacks will be utilized as appropriate. Each stationary source shall be maintained and operated, including associated equipment for air pollution control, in a manner consistent with good air pollution control practice for minimizing emissions pursuant to WAC 246-247-040 and 40 CFR Part 61.12(c). For stacks that are operated during the CERCLA action, the associated records will be maintained for a period of 1 year in the 100 Area or other nearby location, and/or in an electronic format such that the records are readily retrievable. When it is determined that the emission control system is no longer needed, the emission control and monitoring system and air monitoring and the associated stack will be shut down.~~

~~The existing radioactive air monitoring requirements for the 1706-KE building and the 142-K Cold Vacuum Drying Facility are as follows:~~

~~**Cold Vacuum Drying Facility**~~

~~One sample per month will be analyzed for each radionuclide that could contribute greater than 10 percent of the potential to emit total effective dose equivalent.~~

~~**1706-KE**~~

~~Four week sample/year will be analyzed for Total Alpha and Total Beta.~~

The 1706-KE has been removed and is no longer an emission point. This 142-K Cold Vacuum Drying Facility (CVDF) Air Monitoring Plan (AMP) now represents the air emissions approval for the facility due to implementation of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERLCA) action at the facility. The transition of CVDF from operations to D4 under CERCLA has been documented by a Memo-to-File approved by DOE/RL and EPA dated January 30, 2013, in accordance with Section 2.5 of the Action Memorandum for the Non-Time-Critical Removal Action for the 105-KE and 105-KW Reactor and Ancillary Facilities, dated January 2007. [http://www5.hanford.gov/arpir/?content=findpage&AKey=1303070058]

During the remaining CERCLA response actions at 100-K, the CVDF facility will be utilized for surveillance and maintenance activities only of a non-radiological nature. The existing emission controls on the stack will be utilized as appropriate. The control equipment shall be maintained and operated in a manner described herein. The associated records will be maintained for a period of 1 year in the 100 Area or other nearby location, and/or in an electronic format such that the records are readily retrievable. When it is determined that the emission control system is no longer needed, the emission controls and stack will be shut down.

While used as a surveillance and maintenance facility, the CVDF will exhibit a lesser potential-to-emit (PTE) as compared to that associated with its prior operating mission associated with drying spent nuclear fuel. This lesser PTE is based on residual contamination held up in deactivated systems and represents a potential public dose impact of less than 1% of the offsite standard. The reduced PTE is addressed in the ECF-100KR2-13-0001, "Cold Vacuum Drying Facility Estimated PTE for Surveillance and Maintenance." Since the existing continuous emission sampling and monitoring system is no longer required for monitoring of the now minor CVDF source, the existing continuous emission sampling and monitoring system will no longer be operated or maintained, and may be removed.

As this emission unit has a potential-to-emit of less than 0.1mrem/yr TEDE to the MEI, an estimate of the radionuclide emissions, in lieu of monitoring, in accordance with 40CFR61 Appendix D will be performed [WAC 246-247-075(3)]. An annual engineering estimate of emissions, derived directly from the abated emissions estimate detailed in the ECF-100KR2-13-0001, will be included within the annual Radioactive Air Emissions Report for the Hanford Site, issued by the U.S. Department of Energy as required by the substantive reporting requirements of WAC 246-247 and 40 CFR 61, Subpart H. The potential emissions identified with the CVDF stem entirely from low levels of residual radioactive material remaining in the facility from earlier processing. No further activities are planned during surveillance and maintenance

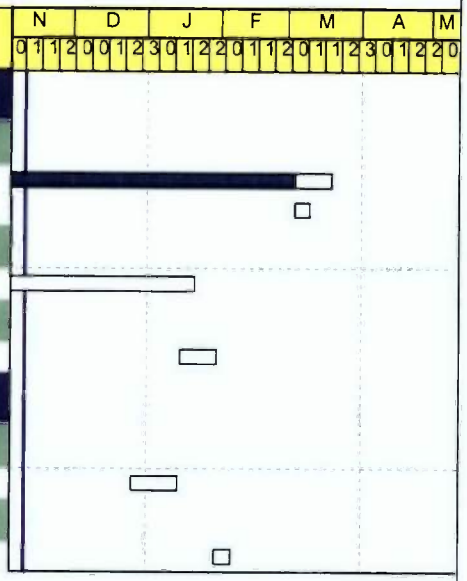
which would cause the conservatively estimated radioactive material inventory or PTE for the CVDF to become increased.

As Low As Reasonably Control Technology (ALARACT) at CVDF (142-K) will consist of HEPA filtration provided by the facility's General Exhaust System. HEPA filters in this system were recently replaced in July 2011. These HEPA filters will be leak tested every three years starting from their last leak test in 2012. The General Exhaust system will be operated whenever there are HVAC systems operating that provide outside air to interior spaces within the facility.

Attachment 6

UMM B/C SCHEDULE

Activity ID	Activity Name	% Cmpl	RD	Start	Finish
100-C-7 Waste Site Remediation					
Closeout Sampling & Docs					
BC502D131	Prepare Closure Document for 100-C-7:1 West Sidewall / Stockpile Areas	96%	69	06-Mar-13 A	19-Mar-14
BC524G86	RL/Regulator Sign Rev. 0 Closure Document for 100-C-7:1 West Sidewall	0%	4	04-Mar-14*	10-Mar-14
Backfill					
BC502C41	100-C-7:1 Post C-7 Work Remaining Backfill	34%	37	19-Aug-13 A	21-Jan-14
Revegetation					
BC502E22	100-C-7:1 Perform Revegetation (30 acres)	0%	10	15-Jan-14*	30-Jan-14
600-253 Waste Site (Pit 24)					
Backfill					
BC508C	600-253 (Pit 24) Recontouring	0%	10	26-Dec-13*	14-Jan-14
Revegetation					
BC508E2	600-253 (Pit 24) Plant Reveg/Sage (40 acres)	0%	4	30-Jan-14	05-Feb-14



Current Bar Labels % Complete

Attachment 7

100 Area D4/ISS Status
November 14, 2013

100-N

100-N Miscellaneous Items – Removal and disposition of miscellaneous materials and equipment from around the site continues. Preparing for decontamination of remaining heavy equipment and relocating to either the 300 Area or ERDF. Continue preparation for D4 demobilization from 100-N.

181-N River Pump House Anchor Blocks – Mobilization activities for construction of access roads initiated. Removal of anchor blocks scheduled to begin week of 11/18/13.

100-D

183-D Water Treatment Plant – Demolition of above grade structure complete, below grade demolition and load-out continues, site preparations for demobilization upcoming.

151-D Electrical Switchyard – Demolition of above grade structure continues. Transformer recycling activities completed 11/7/13.

100-B

151-B Electrical Switchyard – Demolition of above grade structure continues.

Attachment 8

TRI-PARTY AGREEMENT

Change Notice Number TPA-CN- 602	TPA CHANGE NOTICE FORM	Date: 5 November, 2013
Document Number, Title, and Revision: DOE/RL-2009-44, *Sampling and Analysis Plan for the 100-BC-1, 100-BC-2, and 100-BC-5 Operable Units Remedial Investigation/Feasibility Study*, Rev. 0 as modified by TPA-CN-559 and TPA-CN-593		Date Document Last Issued: 24 September, 2013
Originator: Phil Burke		Phone: 376-0023

Description of Change:
This change revises Appendix B of the sampling and analysis plan. See "Justification and Impacts of Change" for details.

Briant Charboneau (**DOE**) and Laura Buelow (**EPA**) agree that the proposed change modifies an approved work plan/document and will be processed in accordance with the Tri-Party Agreement Action Plan, Section 9.0, *Documentation and Records,* and not Chapter 12.0, *Changes to the Agreement.*

- Insert the attached text, table, and figure (pages 2-4 of this change notice) into Section B.3.5.1 of DOE/RL-2009-44, as indicated.
- Insert text on page 5 of this change notice on Page B-13 of DOE/RL-2009-44, as indicated.

Justification and Impacts of Change:

- Field conditions encountered during installation of the shallow aquifer tubes prevented some of the new tubes from being installed as originally planned. DOE and EPA agreed upon an approach to determine whether the additional tubes are necessary or not (documented in Section B.3.5.1of the document).
- Planned hourly sampling frequency is not achievable in many cases. The change allows for a less frequent sampling where needed, with DOE and EPA discussion (documented on Page B-13 of the document).

Approvals:

BRIANT CHARBONEAU DOE Project Manager	11-6-2013 Date	[X] Approved [ ] Disapproved
EPA Project Manager	11.6.13 Date	[X] Approved [ ] Disapproved

Insert into DOE/RL-2009-44 after first paragraph of Section B.3.5.1

Field conditions encountered during installation of the shallow aquifer tubes prevented some of the new tubes from being installed as originally planned. The differences included the following.

a) Could not install cluster AT-5 (C8844/45/46) at its planned site due to the presence of large cobbles and boulders. Moved this cluster slightly east. Two of the three tubes were successfully installed at the new location (see item d).
b) Could not install cluster AT-7 (C8848/49/50) at its planned site due to the presence of large cobbles and boulders. Moved this cluster farther west (near planned location of AT-6). Two of the three tubes were successfully installed at the new location (see item d).
c) Because AT-5 and AT-7 were moved, tube AT-6 (C8847) was no longer needed at its planned location. It was moved to the west of C8844/45.
d) Could not install three of the 2-meter tubes and one of the 1-meter tubes. The tubes could not be driven to the desired depths, most likely because of cobbles and boulders. At least three attempts were made in the vicinity of the site.

Table 1 lists the aquifer tubes and Figure 1 shows their locations. The modified locations are still within the Cr(VI) plume boundaries and provide acceptable coverage.

The objective of monitoring the 1-meter and 2-meter tubes is to help evaluate natural attenuation of Cr(VI) near the point of discharge to the river. These deeper tubes are scheduled for semiannual sampling. Data from the existing tubes and wells will be evaluated after two sampling events to determine if additional 1-meter and 2-meter tubes are needed. Decisions about the additional tubes require DOE and EPA approval. If required, installation methods and tube design will be modified as needed and the new tubes will be installed in fall 2014.

Insert into DOE/RL-2009-44, Section B.3.5.1 after new text:

Table 1. Aquifer Sampling Tubes Installed in 100-BC-5 Fall 2013						
Aquifer Tube Well ID	**Temporary Number**	**Planned Depth (m)**	**Final Depth (m)**	**Easting (m)**	**Northing (m)**	**Riverbed Elevation (m)**
C8840	AT-1	0.5	0.5	563550.26	145735.27	118.37
C8841	AT-2	0.5	0.5	564081.60	145552.34	118.21
C8842	AT-3	0.5	0.5	564581.95	145379.76	117.96
C8843	AT-4	0.5	0.5	564783.93	145276.23	116.84
C8844	AT-5-1	0.5	0.5	564918.09	145393.27	117.27
C8845	AT-5-2	1.0	1.0	564917.39	145393.38	117.28
C8846	AT-5-3	2.0	2.0	564920.77	145392.92	117.27
C8847	AT-6	0.5	0.5	564859.66	145311.08	116.90
C8848	AT-7-1	0.5	0.5	565039.64	145390.90	118.20
C8849	AT-7-2	1.0	1.0	565039.05	145391.64	118.20
C8850	AT-7-3	2.0	Not installed			
C8851	AT-8	0.5	0.5	565188.87	145421.13	117.68
C8852	AT-9-1	0.5	0.5	565293.95	145447.13	117.61
C8853	AT-9-2	1.0	0.9	565293.90	145447.07	117.61
C8854	AT-9-2	2.0	Not installed			
C8855	AT-10	0.5	0.5	565424.07	145474.93	117.60
C8856	AT-11-1	0.5	0.5	565561.41	145526.68	116.93
C8857	AT-11-2	1.0	Not installed			
C8858	AT-11-3	2.0	Not installed			
C8859	AT-12	0.5	0.5	565738.52	145565.42	118.60
C8860	AT-13	0.5	0.5	565839.62	145600.73	118.83
C8861	AT-14	0.5	0.5	566140.12	145687.59	117.75

Insert into DOE/RL-2009-44, Section B.3.5.1 after new text:

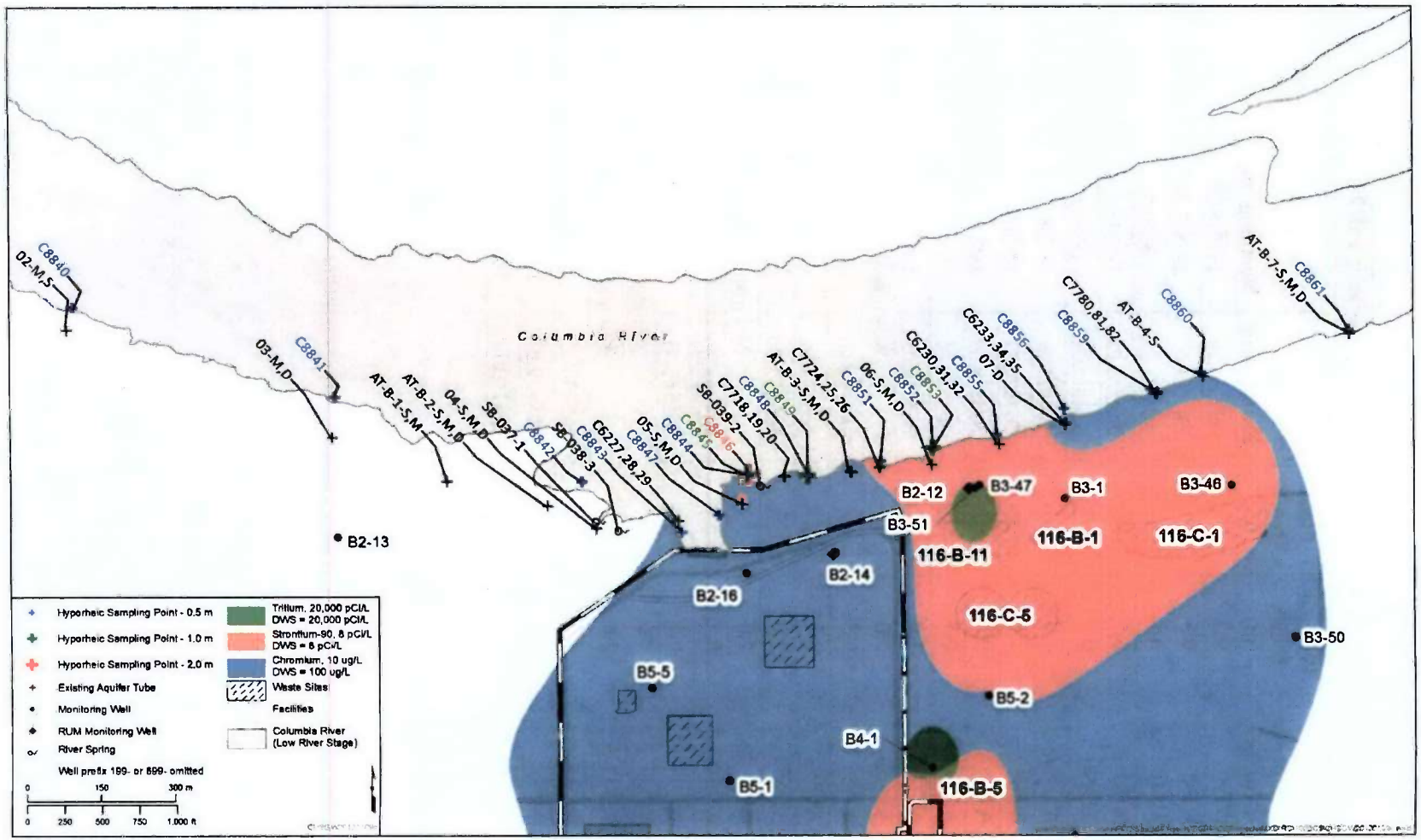


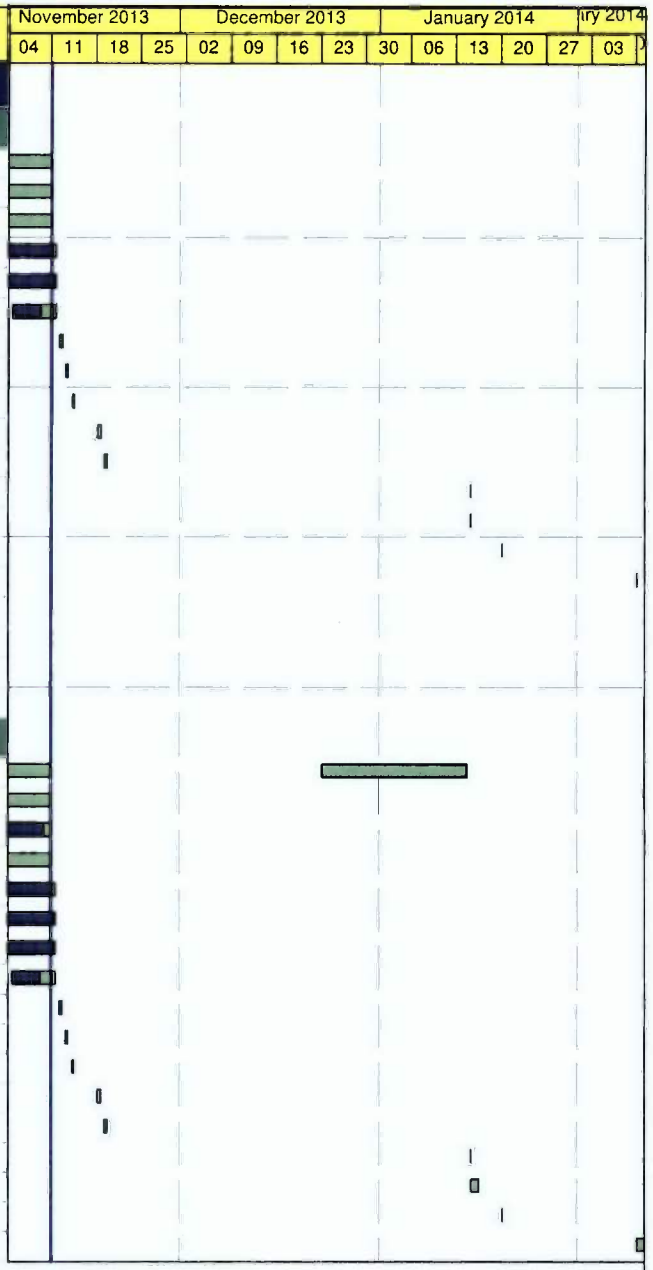
Figure 1. Locations of 100-BC-5 Aquifer Tubes and Hyporheic Sampling Points. The new, shallow aquifer tubes are referred to as "hyporheic sampling points" to distinguish them from the older, deeper aquifer sampling tubes.

Insert on p. B-13 of DOE/RL-2009-44, after the bulleted list:

During installation of the new aquifer tubes, hourly sampling was determined to be unachievable at some locations because pumping rates need to be kept very low to avoid inducing flow of river water into the hyporheic zone ("short circuiting"). Other factors such as weather, river conditions, and limitations on work hours also may prevent samples from being collected as frequently as originally planned. During the first month the tubes will be sampled as frequently as is practical. DOE and EPA will evaluate the sampling, and determine if there is a need to modify the sampling frequency.

Attachment 9

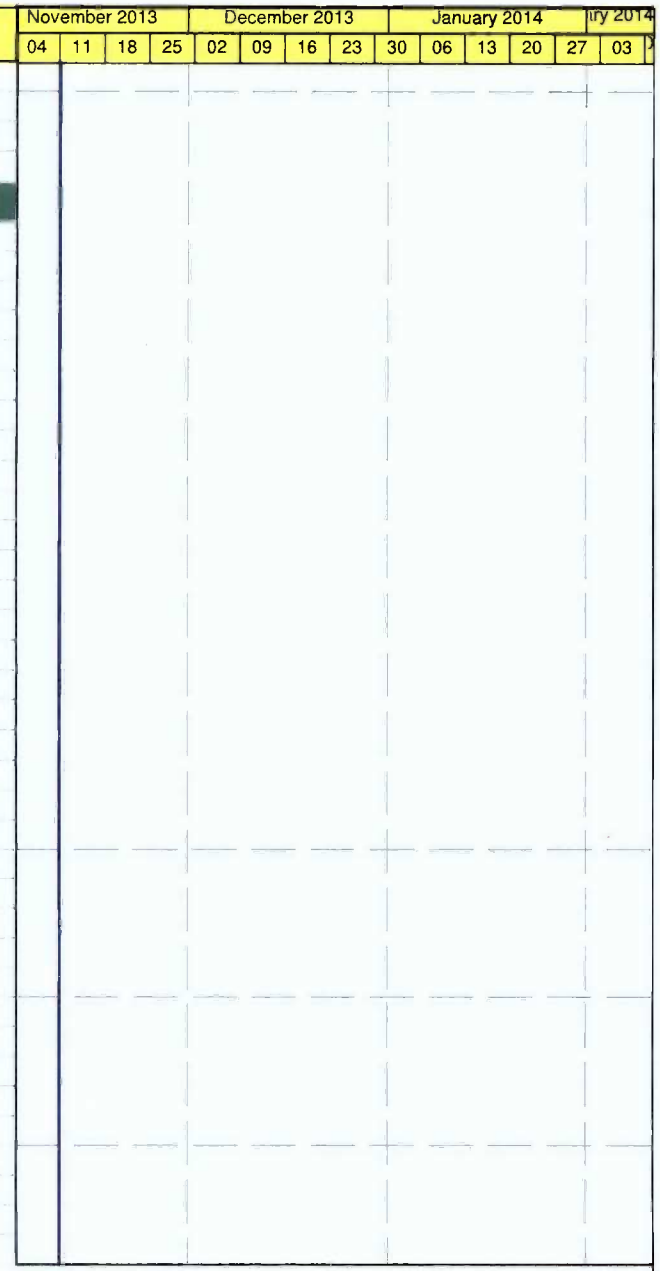
Activity ID	Activity Name	% Cmpl	RD	Start	Finish
FY13 CPP 100-N AREA CURRENT					
Excavation					
NB5B8A	Excavation - 100-N-84:6 (12,721 BCM)	9%	11	10-Apr-13 A	14-Jan-14
NB5B4D08	Excavation over IPB - 100-N-84:2 (20,819 BCM)	90%	4	17-Apr-13 A	14-Nov-13
NB5B7A	Excavation - 100-N-84:5 (39,722 BCM)	27%	13	03-Jul-13 A	19-Dec-13
NB596A	Excavation - 120-N-4 (646.86 BCM)	99%	1	08-Oct-13 A	11-Nov-13
NB5B1A	Excavation - 100-N-81 (690 BCM)	99%	1	22-Oct-13 A	11-Nov-13
NB5A3A	Excavation - 100-N-101 (132.36 BCM)	67%	1	05-Nov-13 A	11-Nov-13
NB595A	Excavation - 100-N-100 (89.58 BCM)	0%	1	12-Nov-13*	12-Nov-13
NB590A	Excavation - 100-N-91 (4.05 BCM)	0%	1	13-Nov-13	13-Nov-13
NB5093A	Excavation - 100-N-97 (10.09 BCM)	0%	1	14-Nov-13	14-Nov-13
NB591A	Excavation - 100-N-94 (51.34 BCM)	0%	1	18-Nov-13*	18-Nov-13
NB594A	Excavation - 100-N-99 (40.33 BCM)	0%	1	19-Nov-13	19-Nov-13
NB5C1A	Excavation - 100-N-84:8 (0 BCM)	0%	12	15-Jan-14	04-Feb-14
NB583A	Excavation - 100-N-82	0%	2	15-Jan-14	16-Jan-14
NB5B6A	Excavation - 100-N-84:4 (8,348 BCM)	0%	12	20-Jan-14	06-Feb-14
NB5C7A	Excavation - 100-N-104 (49 BCM)	0%	4	10-Feb-14	13-Feb-14
NB5C3A	Excavation - 100-N-96 (2600 BCM)	0%	6	18-Feb-14	26-Feb-14
NB5B2A	Excavation - 100-N-83 (20,659 BCM)	0%	30	27-Feb-14	21-Apr-14
NB5B6A60	Design - 100-N-107 (Final ROD)	0%	55	01-Oct-15*	13-Jan-16
NB5B6A10	Excavation - 100-N-107 (Final ROD)	0%	16	09-Jun-16	07-Jul-16
Loadout					
NB5B8B	Loadout - 100-N-84:6 (27,987 UST)	9%	11	10-Apr-13 A	14-Jan-14
NB5B4D09	Loadout over IPB - 100-N-84:2 (45,800 UST)	90%	4	17-Apr-13 A	14-Nov-13
NB5A1B10	Loadout over IPB quantity - 100-N-93 (65,690)	92%	5	13-May-13 A	25-Nov-13
NB5B7B	Loadout - 100-N-84:5 (87,389 UST)	27%	13	11-Jul-13 A	19-Dec-13
NB596B	Loadout - 120-N-4 (1,379.16 UST)	99%	1	08-Oct-13 A	11-Nov-13
NB5B1B	Loadout - 100-N-81 (1,518.0 UST)	99%	1	22-Oct-13 A	11-Nov-13
NB584D10	Loadout- 100-N-54 (500 UST)	99%	1	04-Nov-13 A	11-Nov-13
NB5A3B	Loadout - 100-N-101 (220.0 UST)	67%	1	05-Nov-13 A	11-Nov-13
NB595B	Loadout - 100-N-100 (49.5 UST)	0%	1	12-Nov-13	12-Nov-13
NB590B	Loadout - 100-N-91 (0.71 UST)	0%	1	13-Nov-13	13-Nov-13
NB5093B	Loadout - 100-N-97 (5.94 UST)	0%	1	14-Nov-13	14-Nov-13
NB591B	Loadout - 100-N-94 (49.5 UST)	0%	1	18-Nov-13	18-Nov-13
NB594B	Loadout - 100-N-99 (42.1 UST)	0%	1	19-Nov-13	19-Nov-13
NB5C1B	Loadout - 100-N-84:8 (0 UST)	0%	12	15-Jan-14	04-Feb-14
NB583B	Loadout - 100-N-82	0%	2	15-Jan-14	16-Jan-14
NB5B6B	Loadout - 100-N-84:4 (18,366 UST)	0%	12	20-Jan-14	06-Feb-14
NB5C7B	Loadout - 100-N-104 (108 UST)	0%	4	10-Feb-14	13-Feb-14



Actual Work ◆ Milestone ◆ Actual Milestone
Remaining Work % Complete

Data Date: 11-Nov-13

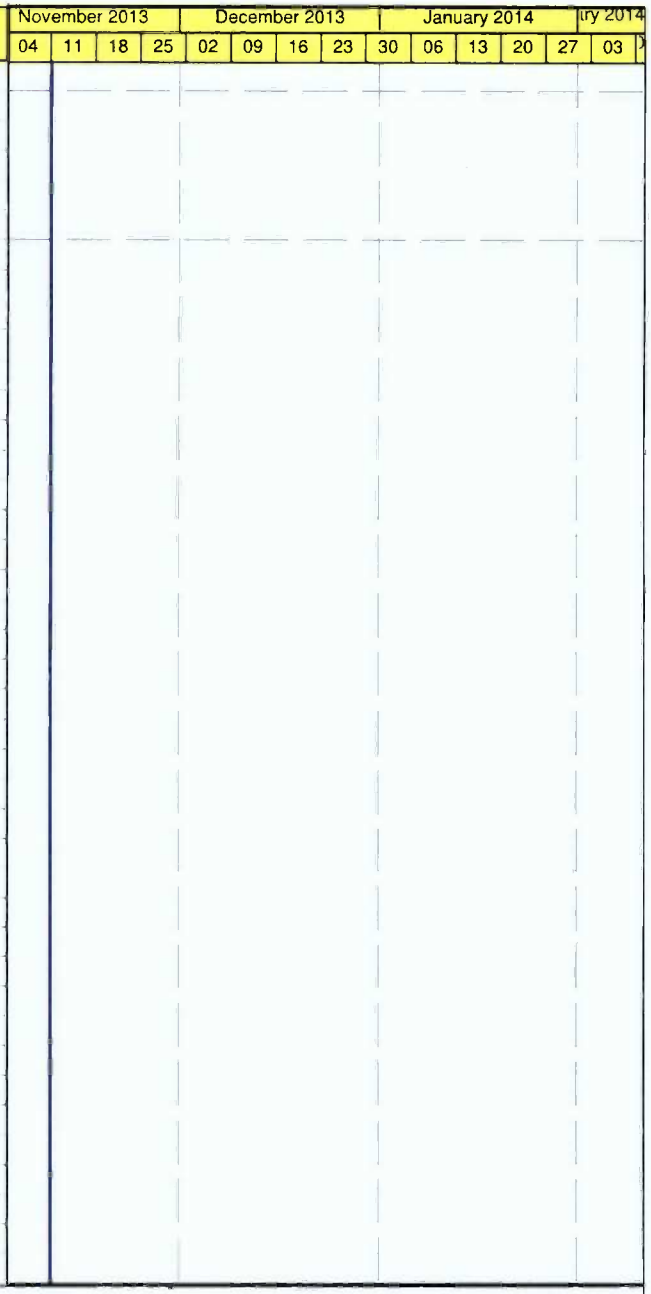
Activity ID	Activity Name	% Cmpl	RD	Start	Finish
NB5C3B	Loadout - 100-N-96 (2,943 UST)	0%	6	18-Feb-14	26-Feb-14
NB5B2B	Loadout - 100-N-83 (45,451 UST)	0%	30	27-Feb-14	21-Apr-14
PROJMS1	100-N Remediation Complete	0%	0		21-Apr-14*
NB5B6A20	Loadout - 100-N-107 (Final ROD)	0%	16	09-Jun-16	07-Jul-16
Backfill					
NB587C	Backfill - 100-N-79 (672.58 BCM)	0%	1	06-Mar-14	06-Mar-14
NB5092C	Backfill - 100-N-95 (2,158.57 BCM)	0%	1	06-Mar-14	06-Mar-14
NB535C	Backfill - 124-N-10 (9,978 BCMs)	0%	2	01-Apr-14*	02-Apr-14
NB541C	Backfill - 130-N-1 (10,000 BCMs)	0%	4	01-Apr-14*	07-Apr-14
NB509C	Backfill - 100-N-25 (333 BCMs)	0%	1	14-Apr-14*	14-Apr-14
NB568C10	Backfill - UPR-100-N-36 AUW	0%	1	15-Apr-14	15-Apr-14
NB568C	Backfill - UPR-100-N-36 (3,333 BCMs)	0%	1	15-Apr-14*	15-Apr-14
NB525C11	Backfill - 100-N-61 (incl 100-N-64) AUW	0%	15	16-Apr-14*	12-May-14
NB525C	Backfill - 100-N-61 (incl 100-N-64) 112,271 BCMs	0%	15	16-Apr-14*	12-May-14
NB599C	Backfill - 100-N-86 (1030 BCM)	0%	1	30-Apr-14	30-Apr-14
NB529C	Backfill - 116-N-4 (5,951 BCMs)	0%	1	13-May-14*	13-May-14
NB532C	Backfill - 120-N-3 (3,915 BCMs)	0%	1	14-May-14*	14-May-14
NB566C	Backfill - UPR-100-N-32 (0 BCMs)	0%	1	15-May-14	15-May-14
NB554C	Backfill - UPR-100-N-2 (0 BCMs)	0%	1	15-May-14	15-May-14
NB545C	Backfill - UPR-100-N-1 (0 BCMs)	0%	1	15-May-14	15-May-14
NB562C	Backfill - UPR-100-N-29 (0 BCMs)	0%	1	15-May-14	15-May-14
NB521C	Backfill - 100-N-57 (4,296 BCMs)	0%	1	15-May-14*	15-May-14
NB564C	Backfill - UPR-100-N-30 (0 BCMs)	0%	1	15-May-14	15-May-14
NB574C	Backfill - UPR-100-N-6 (166 BCMs)	0%	1	19-May-14*	19-May-14
NB517C	Backfill - 100-N-36 (5 BCMs)	0%	16	20-May-14*	17-Jun-14
NB5A4C	Backfill - 600-340 (126.60 BCM)	0%	4	21-May-14	28-May-14
NB586C	Backfill - 100-N-68 (788.65 BCM)	0%	1	16-Jun-14*	16-Jun-14
NB537C	Backfill - 124-N-3 (15 BCMs)	0%	1	18-Jun-14*	18-Jun-14
NB514C	Backfill - 100-N-32 (0 BCMs)	0%	16	19-Jun-14*	17-Jul-14
NB531C	Backfill - 118-N-1 (11,549 BCMs)	0%	16	19-Jun-14*	17-Jul-14
NB567C	Backfill - UPR-100-N-35 (170 BCMs)	0%	16	19-Jun-14*	17-Jul-14
NB546C	Backfill - UPR-100-N-10 (0 BCMs)	0%	16	19-Jun-14*	17-Jul-14
NB569C	Backfill - UPR-100-N-39 (0 BCMs)	0%	16	19-Jun-14*	17-Jul-14
NB548C	Backfill - UPR-100-N-12 (0 BCMs)	0%	16	19-Jun-14*	17-Jul-14
NB519C	Backfill - 100-N-38 (0 BCMs)	0%	16	19-Jun-14*	17-Jul-14
NB563C	Backfill - UPR-100-N-3 (0 BCMs)	0%	16	19-Jun-14*	17-Jul-14
NB513C	Backfill - 100-N-31 (0 BCMs)	0%	16	19-Jun-14*	17-Jul-14
NB575C	Backfill - UPR-100-N-7 (2,624 BCMs)	0%	16	19-Jun-14*	17-Jul-14
NB592C	Backfill - 100-N-62 (3563 BCM)	0%	2	10-Jul-14*	14-Jul-14
NB593C	Backfill - 100-N-28 (2504 BCM)	0%	2	10-Jul-14*	14-Jul-14



Actual Work ◆ Milestone ◆ Actual Milestone
Remaining Work % Complete

Data Date: 11-Nov-13

Activity ID	Activity Name	% Cmpl	RD	Start	Finish
NB536C	Backfill - 124-N-2 (1554 BCMs)	0%	1	21-Jul-14*	21-Jul-14
NB550C	Backfill - UPR-100-N-14 (182 BCMs)	0%	1	21-Jul-14*	21-Jul-14
NB577C	Backfill - UPR-100-N-9 (97 BCMs)	0%	1	21-Jul-14*	21-Jul-14
NB507C	Backfill - 100-N-23 (3588 BCMs)	0%	1	22-Jul-14*	22-Jul-14
NB510C	Backfill - 100-N-26 (276 BCMs)	0%	1	23-Jul-14*	23-Jul-14
NB518C	Backfill - 100-N-37 (0 BCMs)	0%	1	24-Jul-14*	24-Jul-14
NB511C	Backfill - 100-N-29 (0 BCMs)	0%	1	24-Jul-14*	24-Jul-14
NB508C	Backfill - 100-N-24 (0 BCMs)	0%	1	24-Jul-14*	24-Jul-14
NB512C	Backfill - 100-N-30 (0 BCMs)	0%	1	24-Jul-14*	24-Jul-14
NB578C20	Backfill - 100-N-63 AUW	0%	5	28-Jul-14*	04-Aug-14
NB578C10	Backfill - 100-N-63 (14,272 BCMs)	0%	5	28-Jul-14*	04-Aug-14
NB560C	Backfill - UPR-100-N-25 (0 BCMs)	0%	1	05-Aug-14*	05-Aug-14
NB528C	Backfill - 116-N-2 (32,074 BCMs)	0%	5	05-Aug-14*	12-Aug-14
NB573C	Backfill - UPR-100-N-5 (0 BCMs)	0%	1	05-Aug-14*	05-Aug-14
NB555C	Backfill - UPR-100-N-20 (1,840 BCMs)	0%	8	06-Aug-14	19-Aug-14
NB552C	Backfill - UPR-100-N-18 (30,000 BCMs)	0%	8	06-Aug-14*	19-Aug-14
NB559C	Backfill - UPR-100-N-24 (126 BCMs)	0%	8	06-Aug-14	19-Aug-14
NB558C	Backfill - UPR-100-N-23 (0 BCMs)	0%	1	20-Aug-14*	20-Aug-14
NB557C	Backfill - UPR-100-N-22 (0 BCMs)	0%	1	20-Aug-14*	20-Aug-14
NB553C	Backfill - UPR-100-N-19 (5617BCMs)	0%	2	20-Aug-14*	21-Aug-14
NB556C	Backfill - UPR-100-N-21 (0 BCMs)	0%	3	20-Aug-14*	25-Aug-14
NB572C	Backfill - UPR-100-N-43 (9 BCMs)	0%	1	20-Aug-14*	20-Aug-14
NB596C	Backfill - 120-N-4 (618.71 BCM)	0%	1	21-Aug-14	21-Aug-14
NB576C	Backfill - UPR-100-N-8 (28 BCMs)	0%	1	21-Aug-14*	21-Aug-14
NB570C	Backfill - UPR-100-N-4 (63 BCMs)	0%	1	21-Aug-14*	21-Aug-14
NB565C	Backfill - UPR-100-N-31 (5,872 BCMs)	0%	1	21-Aug-14*	21-Aug-14
NB506C	Backfill - 100-N-22 (866 BCMs)	0%	1	25-Aug-14*	25-Aug-14
NB595C	Backfill - 100-N-100 (85.69 BCM)	0%	1	25-Aug-14	25-Aug-14
NB5B1C	Backfill - 100-N-81 (659.98 BCM)	0%	1	26-Aug-14	26-Aug-14
NB590C	Backfill - 100-N-91 (3.87 BCM)	0%	1	26-Aug-14	26-Aug-14
NB542C	Backfill - 1908-N (1,732 BCMs)	0%	1	26-Aug-14*	26-Aug-14
NB5A3C	Backfill - 100-N-101 (126.6 BCM)	0%	1	27-Aug-14	27-Aug-14
NB539C	Backfill - 124-N-9 (0 BCMs)	0%	1	27-Aug-14*	27-Aug-14
NB5093C	Backfill - 100-N-97 (9.65 BCM)	0%	1	27-Aug-14	27-Aug-14
NB534C	Backfill - 124-N-1 (597BCMs)	0%	1	28-Aug-14*	28-Aug-14
NB591C	Backfill - 100-N-94 (49.11BCM)	0%	1	28-Aug-14	28-Aug-14
NB594C	Backfill - 100-N-99 (38.58 BCM)	0%	1	02-Sep-14	02-Sep-14
NB522C	Backfill - 100-N-59 (95 BCMs)	0%	1	02-Sep-14*	02-Sep-14
R120N37	Backfill - 120-N-7 (145 BCMs)	0%	1	03-Sep-14*	03-Sep-14
NB5A1C	Backfill - 100-N-93 (0 BCM)	0%	1	08-Sep-14	08-Sep-14
NB5B6C	Backfill - 100-N-84:4 (14,060 BCM)	0%	8	22-Sep-14	02-Oct-14

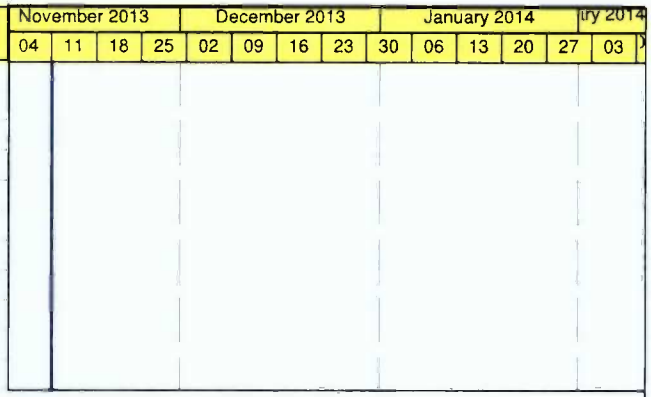


Actual Work ◇ ◇ Milestone ◆ ◆ Actual Milestone

Remaining Work % Complete

Data Date: 11-Nov-13

Activity ID	Activity Name	% Cmpl	RD	Start	Finish
NB5B4C	Backfill - 100-N-84:2 (15,545 BCM)	0%	5	29-Sep-14	06-Oct-14
NB5C7C	Backfill - 100-N-104 (612 BCM)	0%	1	02-Oct-14	02-Oct-14
NB597C	Backfill - 628-2 (1,880.2 BCM)	0%	1	13-Oct-14	13-Oct-14
NB5B8C	Backfill - 100-N-84:6 (12,721 BCM)	0%	2	20-Oct-14	21-Oct-14
NB583C	Backfill - 100-N-82	0%	1	22-Oct-14	22-Oct-14
NB5B7C	Backfill - 100-N-84:5 (72,786 BCM)	0%	30	29-Oct-14	23-Dec-14
NB5C1C	Backfill - 100-N-84:8 (0 BCM)	0%	1	10-Nov-14	10-Nov-14
NB5C3C	Backfill - 100-N-96 (2600 BCM)	0%	1	03-Dec-14	03-Dec-14
NB5B2C	Backfill - 100-N-83 (20,659 BCM)	0%	5	29-Jan-15	05-Feb-15
PROJMS3	100-N Backfill Complete	0%	0		05-Feb-15*
NB5B6A30	Backfill - 100-N-107 (Final ROD)	0%	4	09-May-17	15-May-17



Actual Work ◆ Milestone ◆ Actual Milestone
Remaining Work % Complete

Data Date: 11-Nov-13

Attachment 10

BIOVENT WELL SAMPLE RESULTS

Well #	Date	O2%	CO2 ppm
199-N-171	9-Jan	19.4	3400
	5-Feb	19.6	2840
	6-Mar	18.7	3570
	8-Apr	19.4	3960
	15-May	19.8	6820
	12-Jun	19.6	8290
	10-Jul	19.6	6800
	14-Aug	20.9	6940
	11-Sep	19.1	11400
	8-Oct	19.6	9380

Well #	Date	O2%	CO2 ppm
199-N-169	9-Jan	20.9	0
	5-Feb	20.9	0
	6-Mar	20.9	0
	8-Apr	20.9	0
	15-May	20.9	800
	12-Jun	20.9	780
	#1 Jul 10	20.5	1020
	#2 Jul 10	20.9	920
	14-Aug	20.9	530
	11-Sep	20.9	1250
	8-Oct	20.9	550

O2%

CO2 ppm

Attachment 11

173579

^WCH Document Control

From: Saueressig, Daniel G
Sent: Wednesday, October 30, 2013 11:20 AM
To: ^WCH Document Control
Subject: FW: AIR MONITORS AT N, D and H

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

Thanks,

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

From: Elliott, Wanda (ECY) [mailto:well461@ECY.WA.GOV]
Sent: Thursday, October 24, 2013 8:58 AM
To: Saueressig, Daniel G; Boyd, Alicia
Cc: Chance, Joanne C
Subject: RE: AIR MONITORS AT N, D and H

Alicia is out. I concur with adding the 100-N-104 to the plan.

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, October 23, 2013 7:45 AM
To: Boyd, Alicia (ECY)
Cc: Elliott, Wanda (ECY); Chance, Joanne C
Subject: RE: AIR MONITORS AT N, D and H

Thanks Alicia, I'm currently working on getting air monitoring plan revisions prepared for review. In the meantime, does Ecology concur that 100-N-104 is approved to be added to the 100-N Air Monitoring Plan (see original email below) while the revisions are being prepared, reviewed and approved?

Thanks,

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

From: Boyd, Alicia (ECY) [mailto:aboy461@ecy.wa.gov]
Sent: Monday, September 30, 2013 3:24 PM
To: Saueressig, Daniel G
Cc: Kapell, Arthur; Elliott, Wanda; Menard, Nina; Boothe, Gabriel; Chance, Joanne C; Post, Thomas C; Glossbrenner, Ellwood T
Subject: RE: AIR MONITORS AT N, D and H

Dan,

The Washington Department of Health has reviewed your request to shut down ambient air monitors at 100-D, 100-H, and 100-N based upon updated TEDE calculations you reference in an email dated September 4, 2013. Their recommendation, outlined in the accompanying letter from Gabriel Boothe at WA DOH, is that the following air monitors may be removed: N467, N468, N514, N515, N508, N509, N510, N574, N102, N103, and N106.

These revisions to the TEDE calculations, and monitoring/reporting requirements are to be included in updates to the 100-D, 100-H, and 100-N air monitoring plans.
Ecology concurs with their recommendations. Let me know if you have any questions.

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

From: Saueressig, Daniel G [mailto:dgsauere@wch-rcc.com]
Sent: Thursday, September 26, 2013 3:49 PM
To: Kapell, Arthur (ECY); Boyd, Alicia (ECY)
Subject: FW: AIR MONITORS AT N, D and H

Artie or Alicia, I was wondering if one of you could reply to the message below and attach the Department of Health approval to shut down our air monitors. Thanks a bunch, the only reason I'm asking is that we are planning to shut down the monitors on Monday.

Thanks,

Dan Saueressig
FR Environmental Project Lead
Washington Closure Hanford

521-5326

From: Saueressig, Daniel G
Sent: Wednesday, September 04, 2013 1:06 PM
To: Elliott, Wanda; Kapell, Arthur; Gent, Phil
Cc: Biebrich, Ernest J; Strom, Dean N; Winterhalder, John A; Wilkinson, Stephen G; Landon, Roger J
Subject: AIR MONITORS AT N, D and H

Wanda/Artie/Phil,

We would like to request that the air monitors at 100-N, 100-D, and 100-H be shut down based on the provisions of the Remedial Design Report/Remedial Action Work Plans (RAWP) for these areas (DOE/RL-96-17, Revision 6 for 100-D/H and DOE/RL-2005-93, Revision 0) for 100-N). Routine radiological control surveys will continue to be performed as part of the radiological control program for all these areas. This will alleviate issues with obtaining power sources as work is completed, while still providing routine verification that radiological emissions are being adequately controlled as required by the air monitoring plans. Section 3.4.6 of the 100 Area RAWP (DOE/RL-96-17, Revision 6) states: "The substantive requirements applicable to radioactive air emissions resulting from remediation activities are to quantify potential emissions, monitor emissions, and identify and employ best available radionuclide control technology. Exemptions from these requirements may be requested if the potential-to-emit for the activity or emission unit would result in a total effective dose equivalent of less than 0.1 mrem/yr." Note: application of this exemption is already being used for remediation activities being conducted at 100-B at this time. Although the 100-N RAWP (DOE/RL-2005-93, Revision 0) does not contain the same language cited above, Washington Administrative Code (WAC) 246-247 is included as an Applicable or Relevant and Appropriate Requirement (ARAR) in Section 2.1.8 of the 100-N RAWP and it is believed that the exemption contained in WAC 246-247-020(2)(c) is applicable and can be utilized.

100-N AREA:

The only waste sites with potential radiological inventories remaining to be remediated at the 100-N Area include 100-N-79, 100-N-82, 100-N-83, 100-N-84:2, 100-N-84:6 and 100-N-104. All of these waste sites except 100-N-82 are included in the Total Effective Dose Equivalent for the Remedial Action of the 100-N Area FCS (0100N-CA-V0100, Rev. 2). The calculation has a Total Effective Dose Equivalent (TEDE) of 3.44E-03 mrem/yr. 100-N-82 was included in the Total Effective Dose Equivalent for the Remedial Action of the 100N Area Waste Sites (0100N-CA-V0091, Rev. 0).

Based on a review of calculation 0100N-CA-V0091, 100-N-82 is an insignificant contributor to the total curies of all the waste sites in this calculation as shown below.

Isotope	All Sites Ci/yr	100-N-82 Ci/yr
Ba-137M	1.85E-01	5.33E-08
Co-60	6.77E-02	4.54E-07
Cs-137	1.96E-01	5.63E-08
Pu-238	2.43E-04	1.12E-09
Pu-239/240	1.74E-03	8.31E-09
Sr-90	1.65E-02	2.77E-07
Y-90	1.27E-02	2.77E-07

Both calculations combined results in a TEDE of 0.05484 mrem/yr, and since 100-N-82 is such a small contributor to the overall dose estimated in 0100N-CA-V0091, the actual PTE is much lower than 0.05 mrem/year. In addition, the radiologically contaminated portions of 100-N-84:2 and 100-N-84:6 have already been remediated (north and west of N Reactor), ongoing remediation at these sites have found no additional radiological contamination.

The TEDE from these sites is less than 0.1 mrem/yr; therefore, application of the exemption per the RAWP is being requested.

In addition, it is requested that 100-N-104 be added to the Air Monitoring Plan for the 100-N Remedial Action. This was the only site added to Revision 2 of calculation 0100N-CA-V0100 and has a TEDE of 1.0E-05.

100-D AREA

The only waste sites with potential radiological inventories remaining to be remediated at the 100-D Area include 100-D-85:2, 100-D-86:1, 100-D-86:3, 100-D-102, 100-D-105, 1607-D2:5 and 100-D-104. All of these waste sites except 100-D-104 are included in the TEDE for 100-D/DR Waste Sites (0100D-CA-V0459, Revision 0). The calculation has a TEDE of 6.34E-03 mrem/yr. 100-D-104 is the only waste site remaining to be remediated that is included in the TEDE for the Remedial Action of the 100-D Area Waste Sites (0100D-CA-V0283, Revision 2). The TEDE for 100-D-104 can be calculated by subtracting Revision 2 TEDE from Revision 1 TEDE as the only modification to Revision 2 was to add 100-D-104.

- 9.48E-04 mrem/yr (Rev. 2, 0100D-CA-V0283) - 9.39E-04 mrem/yr (Rev. 1, 0100D-CA-V0283) = 9.0E-06 mrem/yr

The combined dose of the waste sites remaining to be remediated is calculated as follow:

- 6.34E-03 mrem/yr (0100D-CA-V0459) + 9.0E-06 mrem/yr (Rev. 2 - Rev. 1 of 0100D-CA-V0283) = 6.35E-03 mrem/yr

The TEDE from these sites is less than 0.1 mrem/yr; therefore, application of the exemption per the RAWP is being requested.

100-H AREA

The only waste sites with potential radiological inventories remaining to be remediated at 100-H include 100-H-49:1, 100-H-51:6, 100-H-59, 100-H-28:2, 100-H-42, and 100-H-51:2 for a combined TEDE as follows:

- 1.2E-04 mrem/yr: TEDE for the Remediation of the 100-H Failed Confirmatory Sites (0100H-CA-V0190)
- 2.39E-03 mrem/yr: TEDE for the 100-H-42 and 100-H-51:2 Waste Sites (0100H-CA-V0181)
- 1.54E-03 mrem/yr: TEDE for the Remedial Action of the 100-H Area FY 2009 Remaining Waste Sites (0100H-CA-V0100). NOTE: Dose is less as all waste sites included in this calculation are done with the exception of 100-H-28:2.

Total: 4.05E-03 mrem/yr

The TEDE from these sites is less than 0.1 mrem/yr; therefore, application of the exemption per the RAWP is being requested.

Copies of the air monitoring plans and air calculations will be provided. Please let me know if any additional information is needed to assist in the evaluation of this request.

Thanks,

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

From: Danielson, Al (DOH) [mailto:Al.Danielson@DOH.WA.GOV]
Sent: Thursday, August 01, 2013 9:55 AM

To: Schmidt, John; Gent, Phil; Boothe, Gabriel
Cc: Utley, Randy; Martell, John; Elliott, Wanda; Saueressig, Daniel G
Subject: RE: AIR MONITORS AT N

Phil:

I discussed this with the RAES staff and advise continued monitoring of the site for 24/7. This will keep them compliant with the state and federal reg until we can get someone out to assess the PTE for the remaining work. If they can show a PTE of less than 0.1 mrem, they can go to periodic confirmatory monitoring.

We can probably get Gabriel Boothe, or myself, to visit the site and make an assessment before the end of August. Please have your staff contact Gabriel directly at 509 943-5217 to schedule a meeting. I can be reached via email by any of the numbers listed below if necessary.

Thanks
Allan Danielson
Radioactive Air Emissions Section
Yakima Office Phone - 509 574-0198
Richland Office Phone - 509 946-0192
Cell Phone - 509 727-0645
Public Health - Always Working for a Safer and Healthier Washington

---

From: Schmidt, John W (DOH)
Sent: Wednesday, July 31, 2013 3:49 PM
To: Danielson, Al (DOH)
Cc: Utley, Randell J (DOH); Martell, P John (DOH)
Subject: FW: AIR MONITORS AT N

Please think about this and we can discuss in the morning (when I'm in charge and can blame John M)

From: Gent, Philip (ECY)
Sent: Wednesday, July 31, 2013 3:23 PM
To: Schmidt, John W (DOH)
Cc: Utley, Randell J (DOH)
Subject: FW: AIR MONITORS AT N

John,

Can you please advise.

Philip Gent, PE
Waste Management Section
Nuclear Waste Program
Washington Department of Ecology
Phone: (509) 372-7983
Email: pgen461@ecy.wa.gov
FAX: (509) 372-7971

From: Elliott, Wanda (ECY)
Sent: Wednesday, July 31, 2013 2:06 PM
To: Boyd, Alicia (ECY); Gent, Philip (ECY)
Cc: Saueressig, Daniel G
Subject: FW: AIR MONITORS AT N

FYI…let me know if you have any issues with this.

Wanda Elliott

(509) 372-7904

Environmental Scientist

Nuclear Waste Program

Washington State Department of Ecology

<< OLE Object: Picture (Device Independent Bitmap) >>

From: Saueressig, Daniel G [mailto:dgsauere@wch-rcc.com]
Sent: Wednesday, July 31, 2013 1:50 PM
To: Elliott, Wanda (ECY)
Cc: Chance, Joanne C; Biebrich, Ernest J
Subject: AIR MONITORS AT N

Wanda, as we discussed earlier today, we will be losing permanent power to 2 air monitors (N102 and N106) at the end of August when CHPRC takes down the power for their old pump and treat infrastructure north of the 1301-N crib and trench. We plan to continue to operate these air monitors for the remainder of the project with generators. Since we will be using generators we plan to only operate these monitors during the work day (they will not be left running 24 hours a day as was the previous practice) and will only be operated during work on radiologically contaminated sites addressed by the air monitoring plan.

Can you run this by your air contact and ensure there are no concerns.

Thanks,

Dan Saueressig

FR Environmental Project Lead

Washington Closure Hanford

521-5326

Attachment 12

172826

^WCH Document Control

From: Saueressig, Daniel G
Sent: Monday, September 30, 2013 4:33 PM
To: ^WCH Document Control
Subject: FW: AIR MONITORS AT N, D and H
Attachments: Memo WDOH to ECY 9-23-13 Re Removing monitors at N, D, H.pdf

Please provide a chron number (and include the attachment). This email documents a regulatory approval. Also, could you relate this approval to the 100-N Air Monitoring Plan (CCN 169089), the 100-D Air Monitoring Plan (CCN PLN-0016, Revision 0) and the 100-H Air Monitoring Plan (CCN 157903) so that this approval is traceable to those plans?

Thanks,

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

From: Boyd, Alicia (ECY) [mailto:aboy461@ecy.wa.gov]
Sent: Monday, September 30, 2013 3:24 PM
To: Saueressig, Daniel G
Cc: Kapell, Arthur; Elliott, Wanda; Menard, Nina; Boothe, Gabriel; Chance, Joanne C; Post, Thomas C; Glossbrenner, Ellwood T
Subject: RE: AIR MONITORS AT N, D and H

Dan,

The Washington Department of Health has reviewed your request to shut down ambient air monitors at 100-D, 100-H, and 100-N based upon updated TEDE calculations you reference in an email dated September 4, 2013. Their recommendation, outlined in the accompanying letter from Gabriel Boothe at WA DOH, is that the following air monitors may be removed: N467, N468, N514, N515, N508, N509, N510, N574, N102, N103, and N106.

These revisions to the TEDE calculations, and monitoring/reporting requirements are to be included in updates to the 100-D, 100-H, and 100-N air monitoring plans.
Ecology concurs with their recommendations. Let me know if you have any questions.

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

From: Saueressig, Daniel G [mailto:dgsauere@wch-rcc.com]

Sent: Thursday, September 26, 2013 3:49 PM
To: Kapell, Arthur (ECY); Boyd, Alicia (ECY)
Subject: FW: AIR MONITORS AT N, D and H

Artie or Alicia, I was wondering if one of you could reply to the message below and attach the Department of Health approval to shut down our air monitors. Thanks a bunch, the only reason I'm asking is that we are planning to shut down the monitors on Monday.

Thanks,

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

From: Saueressig, Daniel G
Sent: Wednesday, September 04, 2013 1:06 PM
To: Elliott, Wanda; Kapell, Arthur; Gent, Phil
Cc: Biebrich, Ernest J; Strom, Dean N; Winterhalder, John A; Wilkinson, Stephen G; Landon, Roger J
Subject: AIR MONITORS AT N, D and H

Wanda/Artie/Phil,

We would like to request that the air monitors at 100-N, 100-D, and 100-H be shut down based on the provisions of the Remedial Design Report/Remedial Action Work Plans (RAWP) for these areas (DOE/RL-96-17, Revision 6 for 100-D/H and DOE/RL-2005-93, Revision 0) for 100-N). Routine radiological control surveys will continue to be performed as part of the radiological control program for all these areas. This will alleviate issues with obtaining power sources as work is completed, while still providing routine verification that radiological emissions are being adequately controlled as required by the air monitoring plans. Section 3.4.6 of the 100 Area RAWP (DOE/RL-96-17, Revision 6) states: "The substantive requirements applicable to radioactive air emissions resulting from remediation activities are to quantify potential emissions, monitor emissions, and identify and employ best available radionuclide control technology. Exemptions from these requirements may be requested if the potential-to-emit for the activity or emission unit would result in a total effective dose equivalent of less than 0.1 mrem/yr." Note: application of this exemption is already being used for remediation activities being conducted at 100-B at this time. Although the 100-N RAWP (DOE/RL-2005-93, Revision 0) does not contain the same language cited above, Washington Administrative Code (WAC) 246-247 is included as an Applicable or Relevant and Appropriate Requirement (ARAR) in Section 2.1.8 of the 100-N RAWP and it is believed that the exemption contained in WAC 246-247-020(2)(c) is applicable and can be utilized.

100-N AREA:

The only waste sites with potential radiological inventories remaining to be remediated at the 100-N Area include 100-N-79, 100-N-82, 100-N-83, 100-N-84:2, 100-N-84:6 and 100-N-104. All of these waste sites except 100-N-82 are included in the Total Effective Dose Equivalent for the Remedial Action of the 100-N Area FCS (0100N-CA-V0100, Rev. 2). The calculation has a Total Effective Dose Equivalent (TEDE) of 3.44E-03 mrem/yr. 100-N-82 was included in the Total Effective Dose Equivalent for the Remedial Action of the 100N Area Waste Sites (0100N-CA-V0091, Rev. 0).

Based on a review of calculation 0100N-CA-V0091, 100-N-82 is an insignificant contributor to the total curies of all the waste sites in this calculation as shown below.

Isotope	All Sites Ci/yr	100-N-82 Ci/yr
Ba-137M	1.85E-01	5.33E-08

Co-60	6.77E-02	4.54E-07
Cs-137	1.96E-01	5.63E-08
Pu-238	2.43E-04	1.12E-09
Pu-239/240	1.74E-03	8.31E-09
Sr-90	1.65E-02	2.77E-07
Y-90	1.27E-02	2.77E-07

Both calculations combined results in a TEDE of 0.05484 mrem/yr, and since 100-N-82 is such a small contributor to the overall dose estimated in 0100N-CA-V0091, the actual PTE is much lower than 0.05 mrem/year. In addition, the radiologically contaminated portions of 100-N-84:2 and 100-N-84:6 have already been remediated (north and west of N Reactor), ongoing remediation at these sites have found no additional radiological contamination.

The TEDE from these sites is less than 0.1 mrem/yr; therefore, application of the exemption per the RAWP is being requested.

In addition, it is requested that 100-N-104 be added to the Air Monitoring Plan for the 100-N Remedial Action. This was the only site added to Revision 2 of calculation 0100N-CA-V0100 and has a TEDE of 1.0E-05.

100-D AREA

The only waste sites with potential radiological inventories remaining to be remediated at the 100-D Area include 100-D-85:2, 100-D-86:1, 100-D-86:3, 100-D-102, 100-D-105, 1607-D2:5 and 100-D-104. All of these waste sites except 100-D-104 are included in the TEDE for 100-D/DR Waste Sites (0100D-CA-V0459, Revision 0). The calculation has a TEDE of 6.34E-03 mrem/yr. 100-D-104 is the only waste site remaining to be remediated that is included in the TEDE for the Remedial Action of the 100-D Area Waste Sites (0100D-CA-V0283, Revision 2). The TEDE for 100-D-104 can be calculated by subtracting Revision 2 TEDE from Revision 1 TEDE as the only modification to Revision 2 was to add 100-D-104.

- 9.48E-04 mrem/yr (Rev. 2, 0100D-CA-V0283) - 9.39E-04 mrem/yr (Rev. 1, 0100D-CA-V0283) = 9.0E-06 mrem/yr

The combined dose of the waste sites remaining to be remediated is calculated as follow:

- 6.34E-03 mrem/yr (0100D-CA-V0459) + 9.0E-06 mrem/yr (Rev. 2 - Rev. 1 of 0100D-CA-V0283) = 6.35E-03 mrem/yr

The TEDE from these sites is less than 0.1 mrem/yr; therefore, application of the exemption per the RAWP is being requested.

100-H AREA

The only waste sites with potential radiological inventories remaining to be remediated at 100-H include 100-H-49:1, 100-H-51:6, 100-H-59, 100-H-28:2, 100-H-42, and 100-H-51:2 for a combined TEDE as follows:

- 1.2E-04 mrem/yr: TEDE for the Remediation of the 100-H Failed Confirmatory Sites (0100H-CA-V0190)
- 2.39E-03 mrem/yr: TEDE for the 100-H-42 and 100-H-51:2 Waste Sites (0100H-CA-V0181)
- 1.54E-03 mrem/yr: TEDE for the Remedial Action of the 100-H Area FY 2009 Remaining Waste Sites (0100H-CA-V0100). NOTE: Dose is less as all waste sites included in this calculation are done with the exception of 100-H-28:2.

Total: 4.05E-03 mrem/yr

The TEDE from these sites is less than 0.1 mrem/yr; therefore, application of the exemption per the RAWP is being requested.

Copies of the air monitoring plans and air calculations will be provided. Please let me know if any additional

information is needed to assist in the evaluation of this request.

Thanks,

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

From: Danielson, Al (DOH) [mailto:Al.Danielson@DOH.WA.GOV]
Sent: Thursday, August 01, 2013 9:55 AM
To: Schmidt, John; Gent, Phil; Boothe, Gabriel
Cc: Utley, Randy; Martell, John; Elliott, Wanda; Saueressig, Daniel G
Subject: RE: AIR MONITORS AT N

Phil:

I discussed this with the RAES staff and advise continued monitoring of the site for 24/7. This will keep them compliant with the state and federal reg until we can get someone out to assess the PTE for the remaining work. If they can show a PTE of less than 0.1 mrem, they can go to periodic confirmatory monitoring.

We can probably get Gabriel Boothe, or myself, to visit the site and make an assessment before the end of August. Please have your staff contact Gabriel directly at 509 943-5217 to schedule a meeting. I can be reached via email by any of the numbers listed below if necessary.

Thanks
Allan Danielson
Radioactive Air Emissions Section
Yakima Office Phone - 509 574-0198
Richland Office Phone - 509 946-0192
Cell Phone - 509 727-0645
Public Health - Always Working for a Safer and Healthier Washington

---

From: Schmidt, John W (DOH)
Sent: Wednesday, July 31, 2013 3:49 PM
To: Danielson, Al (DOH)
Cc: Utley, Randell J (DOH); Martell, P John (DOH)
Subject: FW: AIR MONITORS AT N

Please think about this and we can discuss in the morning (when I'm in charge and can blame John M)

From: Gent, Philip (ECY)
Sent: Wednesday, July 31, 2013 3:23 PM
To: Schmidt, John W (DOH)
Cc: Utley, Randell J (DOH)
Subject: FW: AIR MONITORS AT N

John,

Can you please advise.

Philip Gent, PE
Waste Management Section
Nuclear Waste Program
Washington Department of Ecology
Phone: (509) 372-7983
Email: pgen461@ecy.wa.gov
FAX: (509) 372-7971

From: Elliott, Wanda (ECY)
Sent: Wednesday, July 31, 2013 2:06 PM
To: Boyd, Alicia (ECY); Gent, Philip (ECY)
Cc: Saueressig, Daniel G
Subject: FW: AIR MONITORS AT N

FYI…let me know if you have any issues with this.

Wanda Elliott

(509) 372-7904

Environmental Scientist

Nuclear Waste Program

Washington State Department of Ecology

<< OLE Object: Picture (Device Independent Bitmap) >>

From: Saueressig, Daniel G [mailto:dgsauere@wch-rcc.com]
Sent: Wednesday, July 31, 2013 1:50 PM
To: Elliott, Wanda (ECY)
Cc: Chance, Joanne C; Biebrich, Ernest J
Subject: AIR MONITORS AT N

Wanda, as we discussed earlier today, we will be losing permanent power to 2 air monitors (N102 and N106) at the end of August when CHPRC takes down the power for their old pump and treat infrastructure north of the 1301-N crib and trench. We plan to continue to operate these air monitors for the remainder of the project with generators. Since we will be using generators we plan to only operate these monitors during the work day (they will not be left running 24 hours a day as was the previous practice) and will only be operated during work on radiologically contaminated sites addressed by the air monitoring plan.

Can you run this by your air contact and ensure there are no concerns.

Thanks,

Dan Saueressig

FR Environmental Project Lead

Washington Closure Hanford

521-5326

DEPARTMENT OF HEALTH
Office of Radiation Protection

September 23, 2013 AIR 13-909

TO: Alicia Boyd
Washington State Department of Ecology (WDOE)

FROM: Gabriel T. Boothe
Radioactive Air Emission Section (RAES)

SUBJECT: WDOH Response for Removal of the 100-N, 100-D, and 100-H Ambient Air Monitors Associated with CERCLA Activities.

Reference 1: *Air Monitoring Plans for 100-N, 100-D, and 100-H with Updated Total Effective Dose Equivalent (TEDE) Calculations*

RAES has completed a review of the referenced document in relation to the removal of the ambient air monitors at the 100-N, 100-D, and 100-H waste sites associated with CERCLA activities. The review focused on the updated TEDE calculations for the waste sites, which have been revised to reflect the more accurate remaining radiological inventory after removal and remedial activities have occurred.

Based off the calculations, the remaining radiological inventory for these sites has been shown to provide a potential to emit a TEDE of less than 0.1 mrem per year to the Maximally Exposed Individual. Therefore, WDOH agrees that removal of the following ambient air monitors: N467, N468, N514, N515, N508, N509, N510, N574, N102, N103, and N106, and implementing periodic confirmatory monitoring through analysis of existing and future ambient air monitors located in the 100 areas, which are called out in the Hanford Site Radioactive Air Emissions License FF-01, in conjunction with radiological surveys, and reported in the Hanford Air Emissions Annual Report, satisfies adequate monitoring and reporting for the purposes of dose projection to a member of the public.

RAES recommends these revisions to the TEDE calculations, monitoring, and reporting requirements be included in an updated version of the air monitoring plans for the 100-N, 100-D, and 100-H areas. Please contact Gabriel T. Boothe at (509) 943-5217 if you have any questions.

cc. Shawna Berven, WDOH
Gabriel T. Boothe, WDOH
John Martell, WDOH
Al Danielson, WDOH
Brenda Jentzen, Ecology
Dennis Faulk, USEPA
John Price, Ecology
Wanda Elliot, Ecology
Arthur Kapell, Ecology
RAES tracking: CERCLA 32, CERCLA 49, CERCLA 67

Attachment 13

172570

^WCH Document Control

From: Saueressig, Daniel G
Sent: Monday, September 16, 2013 1:04 PM
To: ^WCH Document Control
Subject: FW: REQUEST TO USE DEBRIS FOR BACKFILL AT 100-N

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

Thanks,

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

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

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

RF Guercia

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

Hi Wanda and Dan,

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

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

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

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

All,

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

Please ensure the following:
The debris does not contain visual indications of staining. Any debris with visual stains will be disposed of at ERDF.
The material to be placed will not have been in an area controlled for radiological purposes and if the material was in a radiologically controlled area, surveys would be performed to ensure no radiological contamination is present prior to placement. Any debris with radiological contamination will be disposed of at ERDF.
The void spaces are filled.
Ecology is notified prior to placement and provided with approximate mass/volumes and type of debris.

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

Thanks,

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

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

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

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

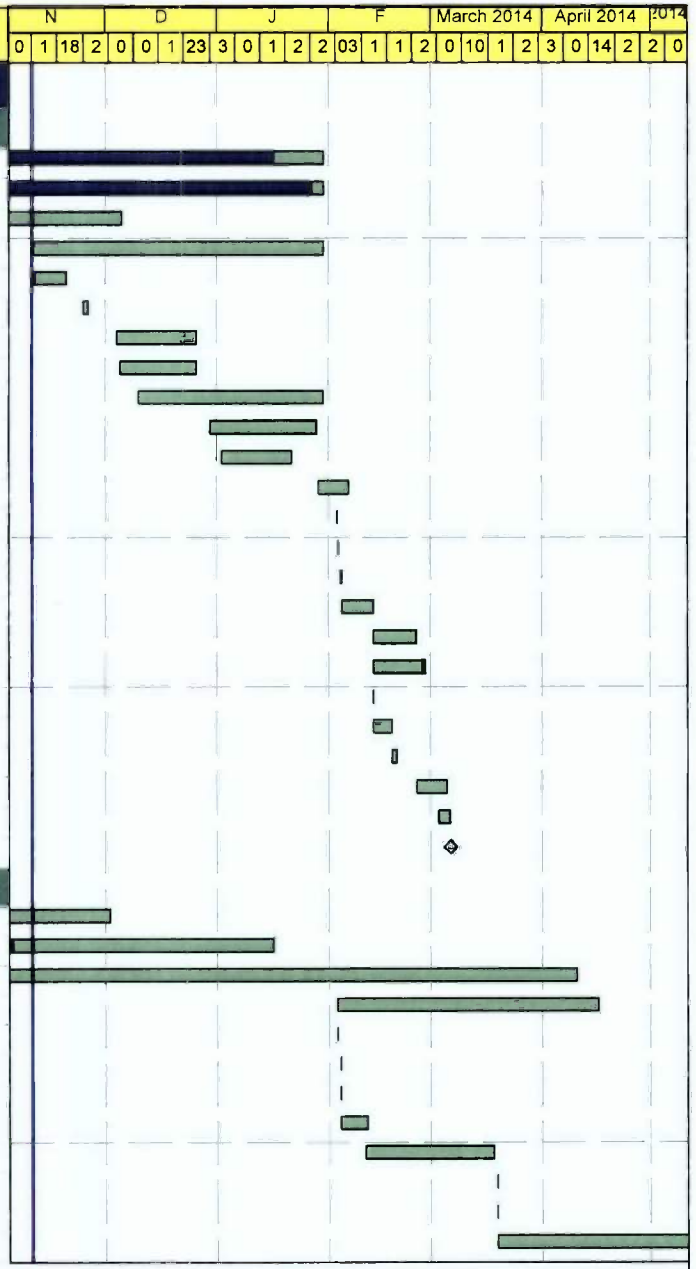
Let me know if you concur and I'll document this agreement at the next UMM.

Thanks,

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

Attachment 14

Activity ID	Activity Name	% Cmpl	RD	Start	Finish
100 D					
Excavation					
RD10D301AUW2	Excavate 100-D-30 Plume (227,900 BCM)	96%	43	14-Feb-13 A	30-Jan-14
100D104A311	Excavate 100-D-104 Tier 3 Phase 2 (57,935 BCM)	99%	42	19-Feb-13 A	30-Jan-14
100D100A311P	Excavate 100-D-100: Tier 3 Plume Chase (121,000 BCM)	80%	14	17-Jun-13 A	05-Dec-13
100D104A355	Excavate 100-D-104 Tier 3 Phase 2B (6,135 BCM)	0%	43	11-Nov-13	30-Jan-14
100D104A365	100-D-104 Tier 3 Plume Concrete Demo (7,000 BCM)1724 Bldg	0%	7	12-Nov-13 A	20-Nov-13
CBB0546A	Excavate 100-D-86:3 (1,817 BCM) **RAD** (BATS)	0%	2	25-Nov-13*	26-Nov-13
CBB0556A	Excavate 147-D ISRM Pond (11,317 BCM)	0%	12	04-Dec-13*	26-Dec-13
CBB0516FCDD	Excavate 100-D-31:11&12 Phase 1 (32,800 BCM BCL)	0%	11	05-Dec-13*	26-Dec-13
100D104A385	Excavate 100-D-104 Tier 3 Plume (67,765 BCM)	0%	28	10-Dec-13*	30-Jan-14
CBB0516FAUW	Excavate 100-D-31:11&12 Phase 2 (7,700 BCM ACL)	0%	17	30-Dec-13	28-Jan-14
CBB0516F1B	Demo 100-D-31:11&12 Phase 3 (370 LM Pipeline demo)	0%	11	02-Jan-14*	21-Jan-14
CBB0537A	Excavate 100-D-72 (5,306 BCM)	0%	6	29-Jan-14	06-Feb-14
CBB0541A	Excavate 100-D-83:3 (182 BCM)	0%	1	03-Feb-14	03-Feb-14
CBB0543A	Excavate 100-D-84:2 (634 BCM)	0%	1	03-Feb-14	03-Feb-14
CBB0548A	Excavate 100-D-97 (128 BCM)	0%	1	04-Feb-14	04-Feb-14
CBC0518A	Excavate 100-D-106 - (5,412 BCM)	0%	6	04-Feb-14	13-Feb-14
CBB0545A	Excavate 100-D-86:1 (5,200 BCM) **RAD**	0%	6	13-Feb-14*	25-Feb-14
CBB0544A	Excavate 100-D-85:2 (7,400 BCM) **RAD**	0%	8	13-Feb-14*	27-Feb-14
CBB0547A	Excavate 100-D-96:2 - (145 BCM)	0%	0	13-Feb-14	13-Feb-14
CBB0550A	Excavate 100-D-99 - (567 BCM)	0%	1	13-Feb-14	18-Feb-14
CBB0535A	Excavate 100-D-69 - (1,754 BCM)	0%	2	18-Feb-14	19-Feb-14
CBB0545AA10	Demo 100-D-86:1 (5,200 BCM) **RAD**	0%	5	25-Feb-14*	05-Mar-14
CBB0513A1	Excavate 1607-D2:5 (357 BCM)	0%	4	03-Mar-14*	06-Mar-14
DMS070A	Excavation Campaign Complete 100D	0%	0		06-Mar-14
Loadout					
100D100A312	Loadout 100-D-100 Tier 3 - Phase 2 - (MHVs - 103,000 Tons)	74%	11	23-Jul-13 A	02-Dec-13
100D104A312	Loadout 100-D-104 Tier 3 (MHVs -27,375 Tons)	41%	35	17-Sep-13 A	16-Jan-14
RD100D30A42	Loadout 100-D-30 Plume Loadout (MHVs - 97,600 Tons)	1%	82	14-Oct-13 A	10-Apr-14
100D100A422	LDR for 100-D Area	0%	42	03-Feb-14	16-Apr-14
CBB0541B	Loadout 100-D-83:3 (Blue Dot Containers - 174 Tons)	0%	0	03-Feb-14	03-Feb-14
CBB0543B	Loadout 100-D-84:2 (Blue Dot Cans - 280 Tons)	0%	0	04-Feb-14	04-Feb-14
CBB0548B	Loadout 100-D-97 (Blue Dot Containers - 45 Tons)	0%	0	04-Feb-14	04-Feb-14
CBB0542B	Loadout 100-D-83:5 (Blue Dot Cans - 7,089 Tons)	0%	4	04-Feb-14	11-Feb-14
100D100A313	Loadout 100-D-100 Tier 3 (Blue Dot Cans - 35,280 Tons)	0%	20	11-Feb-14*	18-Mar-14
RD100D30A43	Loadout 100-D-30 (Blue Dot Cans - 15,000 Tons)	0%	0	19-Mar-14	19-Mar-14
100D104A313	Loadout 100-D-104 Tier 3 (Blue Dot Cans - 10,950 Tons)	0%	0	19-Mar-14	19-Mar-14
100D104A375	Loadout 100-D-104 Tier 3 Plume (MHVs 49,335 tons)	0%	36	19-Mar-14	20-May-14



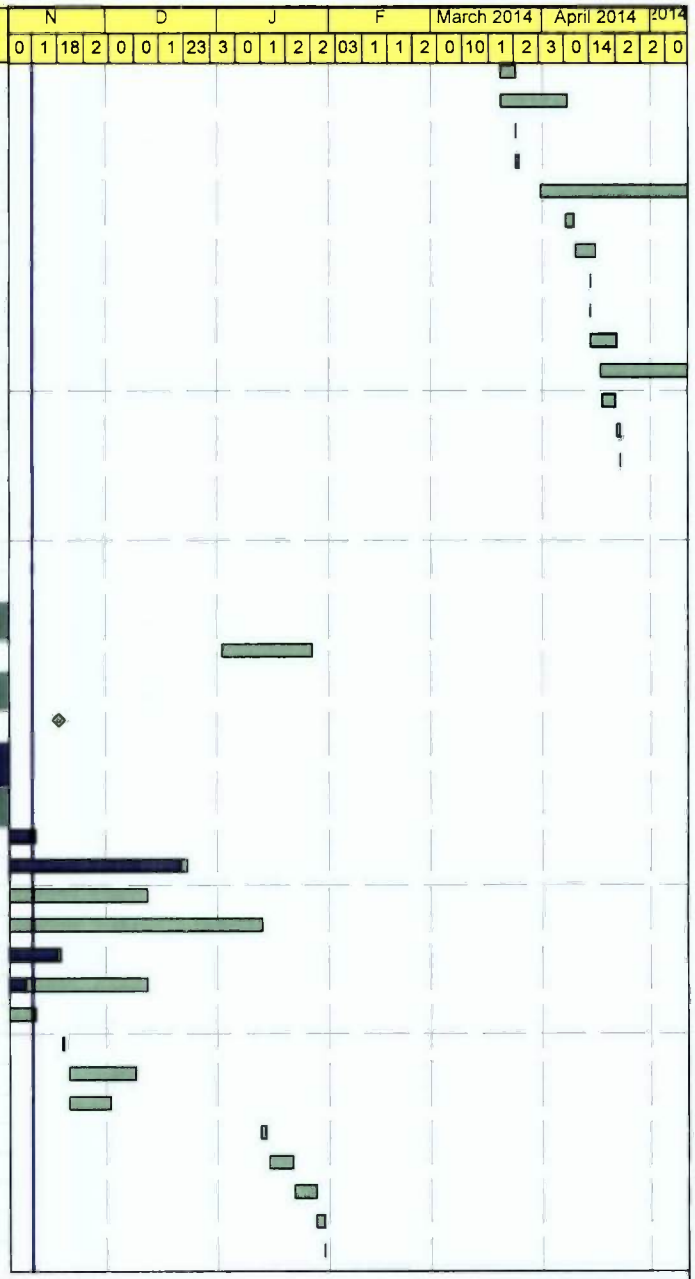
SPIF Bar | Remaining Work | Critical Remaining Work
Actual Work | Actual Critical Work | Remaining Level of Effort

Data Date: 11-Nov-13

CPP 100-D - Current - After FR525 Rev. 2...

TASK filter: 100-DH POW Content.

Activity ID	Activity Name	% Cmpl	RD	Start	Finish
CBB0545B	Loadout 100-D-86:1 (Orange Cans - 1,384 Tons)	0%	1	20-Mar-14	24-Mar-14
CBB0516G	Loadout 100-D-31:11&12 (Blue Dot - 17,360 Tons)	0%	10	20-Mar-14	07-Apr-14
CBB0544B	Loadout 100-D-85:2 (RAD) OrangeCans	0%	1	24-Mar-14	24-Mar-14
CBB0546B	Loadout 100-D-86:3 (Orange Cans - 506 Tons)	0%	1	24-Mar-14	25-Mar-14
CBB0556B	Loadout 147-D ISRM Pond - (24,898 Tons) MHVs	0%	24	31-Mar-14	12-May-14
CBB0537B	Loadout 100-D-72 (Blue Dot Cans - 3,232 Tons)	0%	3	07-Apr-14	09-Apr-14
CBB0534B	Loadout 100-D-81 (Blue Dot Cans - 5,318 Tons)	0%	3	10-Apr-14	15-Apr-14
CBB0547B	Loadout 100-D-96:2 - (3 Tons) MHVs	0%	0	14-Apr-14	14-Apr-14
CBB0550B	Loadout 100-D-99 - (281 Tons) MHVs	0%	0	14-Apr-14	14-Apr-14
CBC0518B	Loadout 100-D-106 - (11,906 Tons) MHVs	0%	5	14-Apr-14	21-Apr-14
100D100AD	Loadout 100-D-100 Tier 3 BlueDot	0%	20	17-Apr-14*	21-May-14
100D100A375	Loadout Power Poles & Debris from Power Line Relocation	0%	1	17-Apr-14	21-Apr-14
CBB0535B	Loadout 100-D-69 - (1,538 Tons) MHVs	0%	1	21-Apr-14	22-Apr-14
CBB0513B1	Loadout 1607-D2:5 (112 Tons) MHVs	0%	0	22-Apr-14	22-Apr-14
DMS080B	Loadout Campaign Complete (Super Dumps) 100H	0%	0		13-May-14
DMS080A	Loadout Campaign Complete (Super Dumps) 100D	0%	0		20-May-14
DMS090A	Loadout Campaign Complete (ERDF Containers) 100D	0%	0		21-May-14
DMS090B	Loadout Campaign Complete (ERDF Containers) 100H	0%	0		21-May-14
Backfill					
100D501A030	Backfill - 100-D-50:1	0%	13	02-Jan-14*	27-Jan-14
Revegetation					
DMSR13	2013 100-D Reveg Campaign	0%	0	18-Nov-13*	
100 H					
Excavation					
HB512A	Excavate 100-H-28:3 Section A - Export Water Line (5,000 BCM)	99%	1	28-Jun-13 A	11-Nov-13
HB512A6	Excavate 100-H-28:3 Section C - All Else (41,394 BCM)	99%	23	17-Jul-13 A	23-Dec-13
HB511A023	Demo 100-H-28:2-3 Concrete Demolition and Size Reduction	27%	18	30-Jul-13 A	12-Dec-13
HB514A	Excavate 100-H-28:5 Section B - All else (11,900 BCM)	35%	32	06-Aug-13 A	13-Jan-14
HB512A5	Excavate 100-H-28:3 Section B - Power Line (12,500 BCM)	99%	5	09-Sep-13 A	18-Nov-13
HB511A04	Excavate 100-H-28:2 Phase 2 - (55,355 BCMs)	58%	18	23-Sep-13 A	12-Dec-13
HB515A2	Excavate 100-H-42 (15,000 BCM) non-RAD	19%	1	08-Oct-13 A	11-Nov-13
HB514A1	Excavate 100-H-28:5 Section A - Power Line (650 BCM)	0%	1	19-Nov-13	19-Nov-13
HB515A10	Demo 100-H-42 **RAD** & Shear Demo	0%	8	21-Nov-13	09-Dec-13
HB515A	Excavate 100-H-42 (33,197 BCM) **RAD**	0%	4	21-Nov-13	02-Dec-13
HB516A	Excavate 100-H-43 - Power line Interference (819 BCM)	0%	2	13-Jan-14	14-Jan-14
HB513A02	Excavate 100-H-28:4 Phase 2 (3,644 BCMs)	0%	4	15-Jan-14	21-Jan-14
HB528A10	Excavate 100-H-51:6 (3,073 BCM)	0%	3	22-Jan-14	28-Jan-14
HB525A	Excavate 100-H-51:1 (1,793 BCM)	0%	2	28-Jan-14	30-Jan-14
HB526A	Excavate 100-H-51:3 (625 BCM)	0%	1	30-Jan-14	30-Jan-14



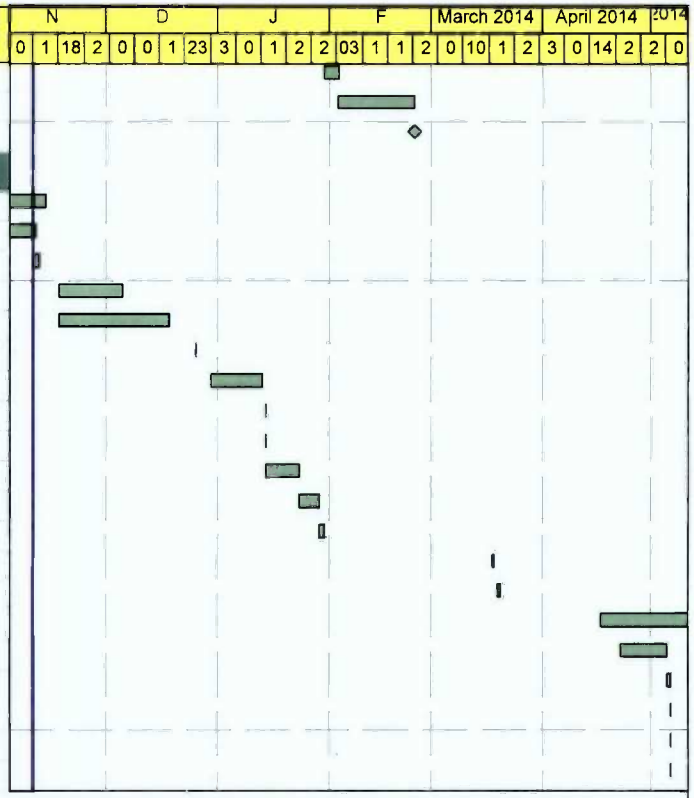
SPIF Bar | Remaining Work | Critical Remaining Work
Actual Work | Actual Critical Work | Remaining Level of Effort

Data Date: 11-Nov-13

CPP 100-D - Current - After FR525 Rev. 2...

TASK filter: 100-DH POW Content.

Activity ID	Activity Name	% Cmpl	RD	Start	Finish
HB524A	Excavate 100-H-49:1 (426 BCM)	0%	1	30-Jan-14	03-Feb-14
HB528A	Excavate 100-H-59 (10,662 BCM)	0%	12	03-Feb-14	24-Feb-14
DMS070B	Excavation Campaign Complete 100H	0%	0		24-Feb-14
Loadout					
HB518B1	Loadout 100-H-46 (Blue Dot - 103,505 Tons)	65%	4	17-Jul-13 A	14-Nov-13
HB511B1	Loadout 100-H-28:2 ABCM (1,200 sq m) BlueDot	10%	1	02-Oct-13 A	11-Nov-13
HB512B1	Loadout 100-H-28:3 ABCM (5,300 sq m) BlueDot	0%	2	11-Nov-13	12-Nov-13
HB517B	Loadout 100-H-44 (Blue Dot - 20,000 Tons)	0%	10	18-Nov-13	05-Dec-13
HB512B	Loadout 100-H-28:3 (Blue Dot - 11,518 Tons)	0%	17	18-Nov-13	18-Dec-13
HB511B04E	Loadout 100-H-28:2 (Orange Containers - 9,857 Tons)	0%	0	26-Dec-13	26-Dec-13
HB515B	Loadout 100-H-42 (Orange Cans - 10,573 Tons)	0%	8	30-Dec-13*	13-Jan-14
HB520B	Loadout 100-H-51:2 (Direct Load - 336 Tons) BlueDot	0%	1	14-Jan-14	14-Jan-14
HB521B	Loadout 100-H-52 (Blue Dot - 156 Tons)	0%	0	14-Jan-14*	14-Jan-14
HB511B04	Loadout 100-H-28:2 (Blue Dot - 12,047 Tons)	0%	7	14-Jan-14*	23-Jan-14
HB514B	Loadout 100-H-28:5 (Blue Dot - 4,096 Tons)	0%	3	23-Jan-14*	29-Jan-14
HB519B	Loadout 100-H-48 (Blue Dot - 951 Tons)	0%	1	29-Jan-14	30-Jan-14
HB516B	Loadout 100-H-43 (Blue Dot - 1,803 Tons)	0%	1	18-Mar-14*	18-Mar-14
HB513B4	Loadout 100-H-28:4 (Blue Dot - 2,202 Tons)	0%	1	19-Mar-14	20-Mar-14
HB518BAD	Loadout 100-H-46 BlueDot	0%	20	17-Apr-14	21-May-14
HB528B	Loadout 100-H-59 (16,903 Tons) MHVs	0%	7	22-Apr-14	05-May-14
HB526B10	Loadout 100-H-51:6 (1,676 Tons) MHVs	0%	1	05-May-14	06-May-14
HB526B	Loadout 100-H-51:3 (330 Tons) MHVs	0%	0	06-May-14	06-May-14
HB525B	Loadout 100-H-51:1 (686 Tons) MHVs	0%	0	06-May-14	06-May-14
HB524B	Loadout 100-H-49:1 (135 Tons) MHVs	0%	0	06-May-14	06-May-14



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

Data Date: 11-Nov-13

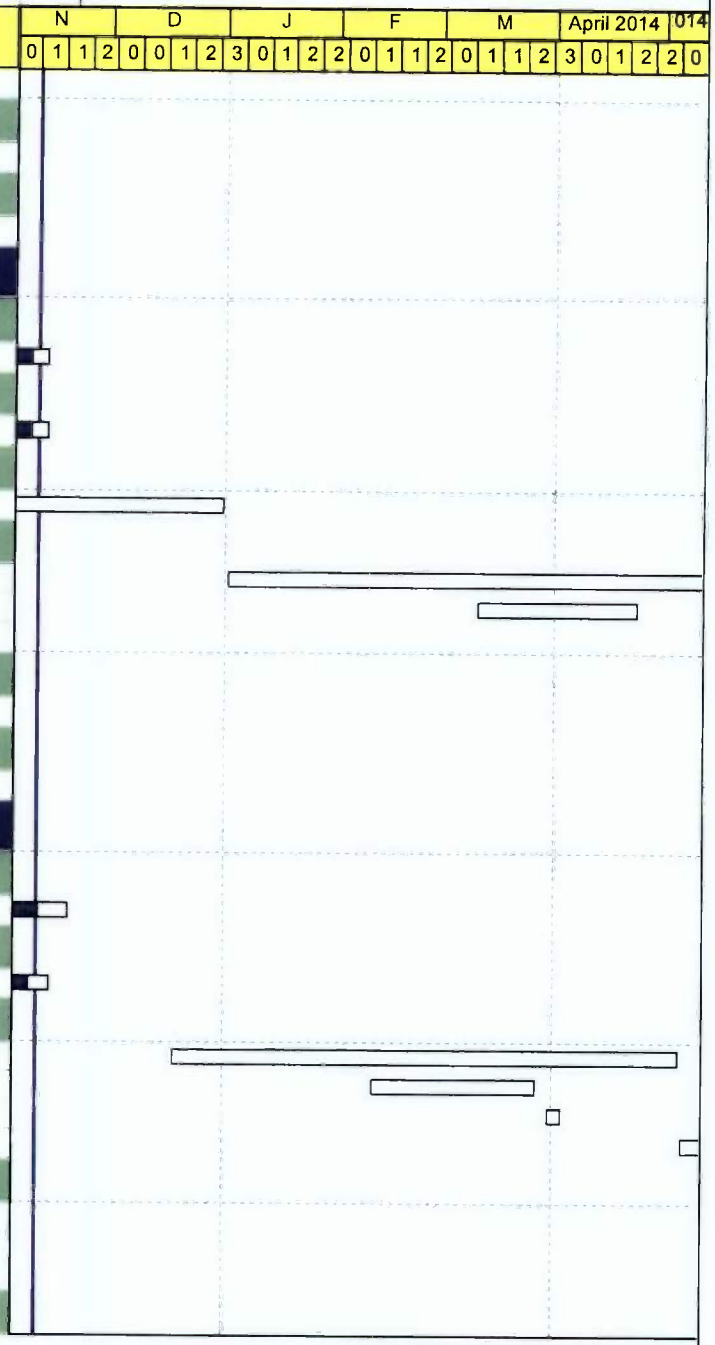
CPP 100-D - Current - After FR525 Rev. 2...

TASK filter: 100-DH POW Content.

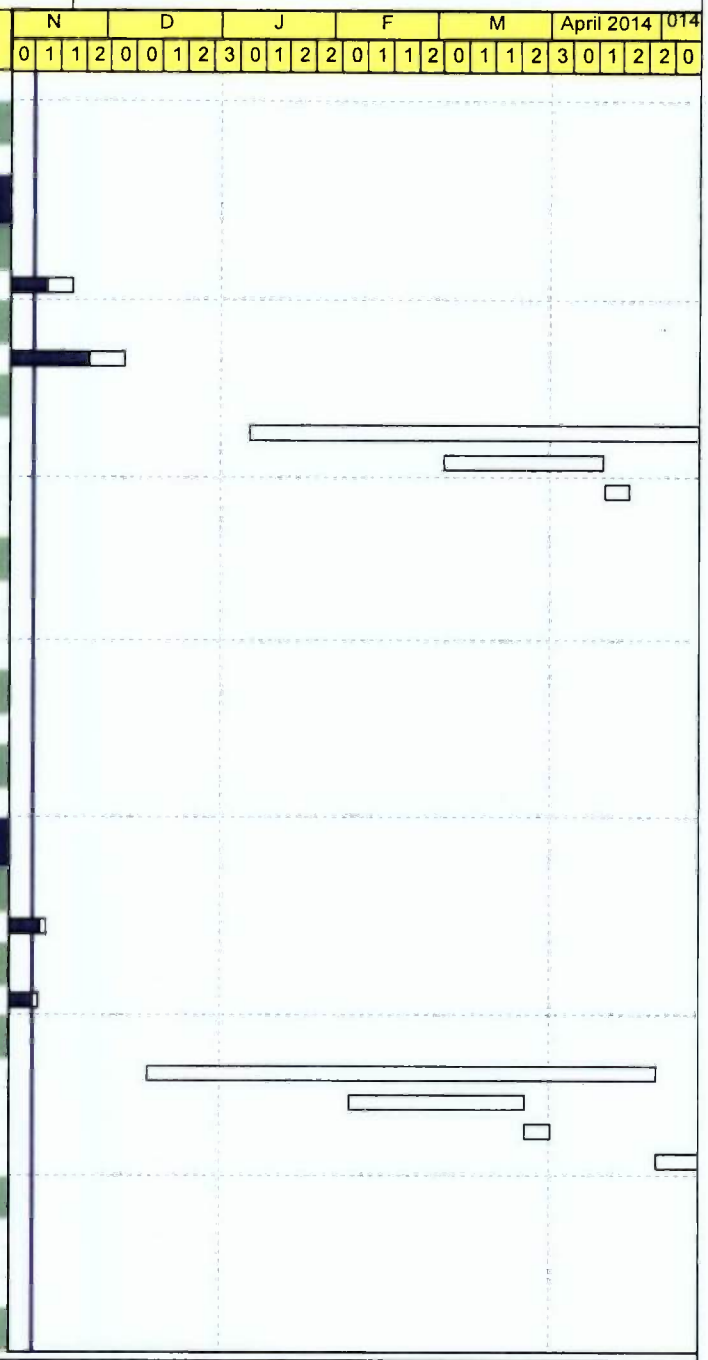
Attachment 15

Activity ID	Activity Name	% Cmpl	RD	Start	Finish
600-326					
Excavation					
IU222640	Excavation 600-326 (IU-6) *INDEFINITE HOLD	0%	3	08-Sep-15*	10-Sep-15
Loadout					
IU222650	Loadout 600-326 *INDEFINITE HOLD	0%	3	14-Sep-15*	16-Sep-15
Closeout Sampling & Docs					
IU222710	Closure Sampling 600-326	0%	26	01-Oct-15	16-Nov-15
Final Project Closeout					
IU222720	Prepare Closure Document 600-326	0%	83	17-Nov-15	19-Apr-16
IU222730	RL/Reg Review of Draft A Closure Document 600-326	0%	26	28-Jan-16	15-Mar-16
IU222740	RL/Reg Signature Rev.0 Closure Document 600-326	0%	4	13-Apr-16	19-Apr-16
Backfill					
IU222660	Backfill 600-326	0%	1	20-Apr-16*	20-Apr-16
Revegetation					
IU222680	Revegetation 600-326	0%	1	21-Apr-16*	21-Apr-16
Culture Resource Reviews					
IU225110	Cultural / Eco Clearance 600-326 *INDEFINITE HOLD	5%	145	26-Jun-13 A	04-Aug-14
600-301					
Closeout Sampling & Docs					
IU223060	Closure Sampling 600-301	10%	26	16-Sep-13 A	31-Dec-13
Final Project Closeout					
IU223070	Prepare Closure Document 600-301	0%	93	02-Jan-14	17-Jun-14
IU223080	RL/Reg Review of Draft A Closure Document 600-301	0%	26	11-Mar-14	23-Apr-14
IU223090	RL/Reg Signature Rev.0 Closure Document 600-301	0%	4	22-May-14	29-May-14
Backfill					
IU223120	Backfill 600-301	0%	1	18-Jun-14	18-Jun-14
Revegetation					
IU223130	Revegetation 600-301	0%	12	10-Nov-14*	02-Dec-14
600-293					
Closeout Sampling & Docs					
IU222840	Closure Sampling 600-293	10%	26	19-Sep-13 A	31-Dec-13
Final Project Closeout					
IU222850	Prepare Closure Document 600-293	0%	93	02-Jan-14	17-Jun-14
IU222860	RL/Reg Review of Draft A Closure Document 600-293	0%	26	11-Mar-14	23-Apr-14

Activity ID	Activity Name	% Cmpl	RD	Start	Finish
IU222870	RL/Reg Signature Rev.0 Closure Document 600-293	0%	4	22-May-14	29-May-14
Backfill					
IU222900	Backfill 600-293	0%	1	19-Jun-14	19-Jun-14
Revegetation					
IU222910	Revegetation 600-293	0%	12	10-Nov-14*	02-Dec-14
600-294					
Excavation					
IU223030	Excavation 600-294	98%	3	28-Mar-13 A	13-Nov-13
Loadout					
IU222930	Loadout 600-294	98%	3	28-Mar-13 A	13-Nov-13
Closeout Sampling & Docs					
IU222950	Closure Sampling 600-294	10%	26	19-Sep-13 A	31-Dec-13
Final Project Closeout					
IU222960	Prepare Closure Document 600-294	0%	93	02-Jan-14	17-Jun-14
IU222970	RL/Reg Review of Draft A Closure Document 600-294	0%	26	11-Mar-14	23-Apr-14
IU222980	RL/Reg Signature Rev.0 Closure Document 600-294	0%	4	22-May-14	29-May-14
Backfill					
U223010	Backfill 600-294	0%	1	23-Jun-14	23-Jun-14
Revegetation					
IU223020	Revegetation 600-294	0%	12	10-Nov-14*	02-Dec-14
600-383					
Excavation					
IU225450	Excavation 600-383 (D/H Boundary Site)	60%	6	31-Oct-13 A	19-Nov-13
Loadout					
IU225350	Loadout 600-383	60%	4	31-Oct-13 A	14-Nov-13
Closeout Sampling & Docs					
IU225410	Prepare Work Instruction 600-383	0%	75	18-Dec-13	05-May-14
IU225420	RL/Reg Review of Draft A Work Instruction 600-383	0%	26	11-Feb-14	27-Mar-14
IU225360	RL/Reg Signature Rev.0 WI 600-383	0%	4	31-Mar-14	03-Apr-14
IU225370	Closure Sampling 600-383	0%	26	06-May-14	19-Jun-14
Final Project Closeout					
IU225380	Prepare Closure Document 600-383	0%	93	23-Jun-14	08-Dec-14
IU225390	RL/Reg Review of Draft A Closure Document 600-383	0%	26	27-Aug-14	13-Oct-14
IU225400	RL/Reg Signature Rev.0 Closure Document 600-383	0%	4	11-Nov-14	17-Nov-14
Backfill					

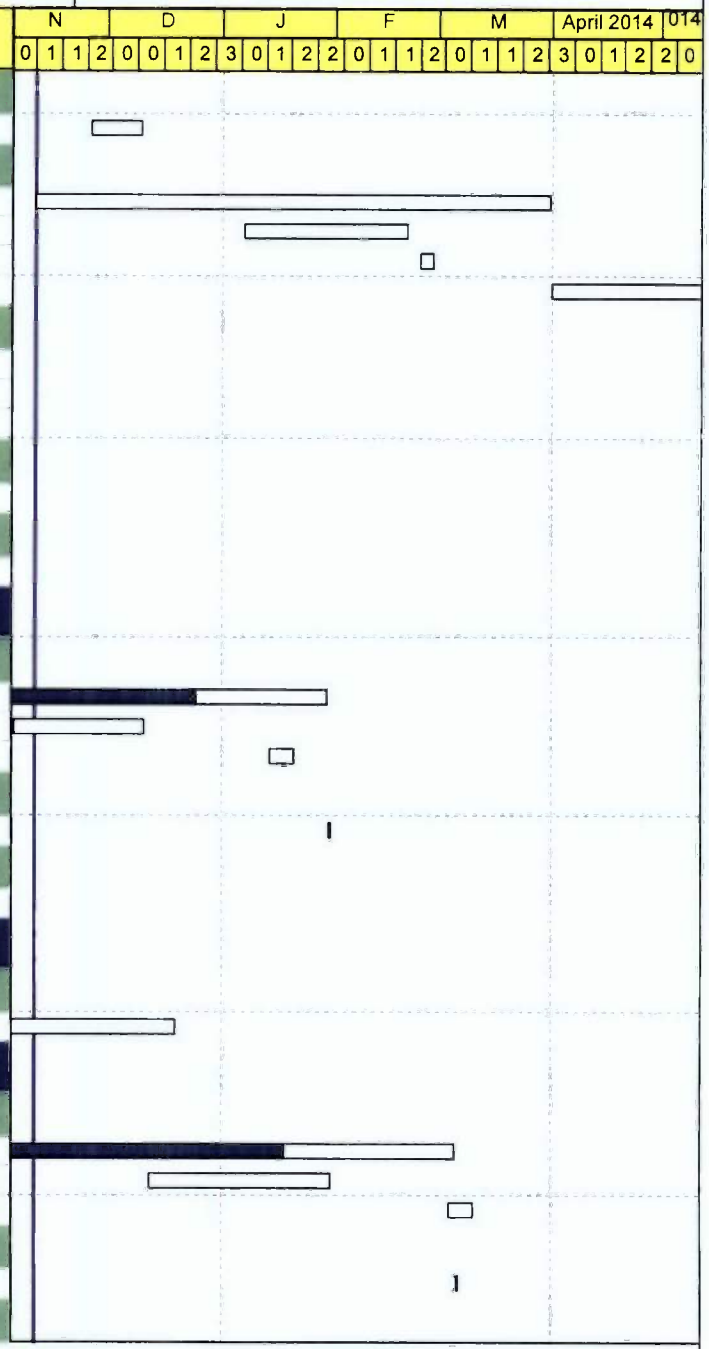


Activity ID	Activity Name	% Cmpl	RD	Start	Finish
IU225430	Backfill 600-383	0%	1	09-Dec-14	09-Dec-14
Revegetation					
IU225440	Revegetation 600-383	0%	8	10-Dec-14*	23-Dec-14
600-384					
Excavation					
IU225560	Excavation 600-384 (D/H Boundary Site)	60%	8	04-Nov-13 A	21-Nov-13
Loadout					
IU225460	Loadout 600-384	70%	14	04-Nov-13 A	05-Dec-13
Closeout Sampling & Docs					
IU225520	Prepare Work Instruction 600-384	0%	75	09-Jan-14	21-May-14
IU225530	RL/Reg Review of Draft A Work Instruction 600-384	0%	26	03-Mar-14	15-Apr-14
IU225470	RL/Reg Signature Rev.0 WI 600-384	0%	4	16-Apr-14	22-Apr-14
IU225480	Closure Sampling 600-384	0%	26	22-May-14	09-Jul-14
Final Project Closeout					
IU225490	Prepare Closure Document 600-384	0%	93	10-Jul-14	29-Dec-14
IU225500	RL/Reg Review of Draft A Closure Document 600-384	0%	26	16-Sep-14	29-Oct-14
IU225510	RL/Reg Signature Rev.0 Closure Document 600-384	0%	4	02-Dec-14	08-Dec-14
Backfill					
IU225540	Backfill 600-384	0%	1	30-Dec-14	30-Dec-14
Revegetation					
IU225550	Revegetation 600-384	0%	8	31-Dec-14*	14-Jan-15
600-382					
Excavation					
IU225340	Excavation 600-382 (D/H Boundary Site)	90%	4	29-Oct-13 A	14-Nov-13
Loadout					
IU225240	Loadout 600-382	90%	2	29-Oct-13 A	12-Nov-13
Closeout Sampling & Docs					
IU225300	Prepare Work Instruction 600-382	0%	75	12-Dec-13	30-Apr-14
IU225310	RL/Reg Review of Draft A Work Instruction 600-382	0%	26	05-Feb-14	25-Mar-14
IU225250	RL/Reg Signature Rev.0 WI 600-382	0%	4	25-Mar-14	01-Apr-14
IU225260	Closure Sampling 600-382	0%	26	30-Apr-14	17-Jun-14
Final Project Closeout					
IU225270	Prepare Closure Document 600-382	0%	93	17-Jun-14	03-Dec-14
IU225280	RL/Reg Review of Draft A Closure Document 600-382	0%	26	21-Aug-14	08-Oct-14
IU225290	RL/Reg Signature Rev.0 Closure Document 600-382	0%	4	05-Nov-14	12-Nov-14
Backfill					

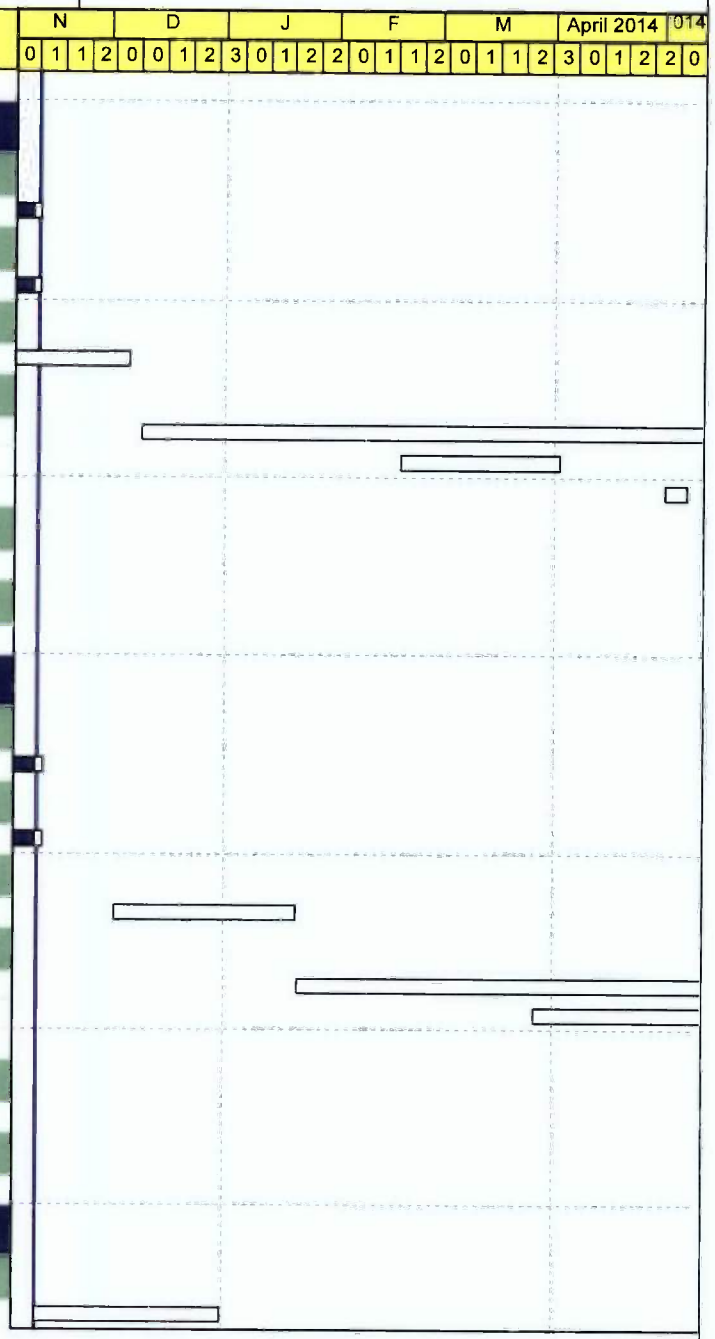


Activity ID	Activity Name	% Cmpl	RD	Start	Finish
IU225320	Backfill 600-382	0%	1	03-Dec-14	04-Dec-14
Revegetation					
IU225330	Revegetation 600-382	0%	8	04-Dec-14*	18-Dec-14
600-369					
Final Project Closeout					
IU223840	Prepare Closure Document 600-369	76%	30	15-Aug-13 A	08-Jan-14
IU223850	RL/Reg Review of Draft A Closure Document 600-369	50%	5	12-Sep-13 A	18-Nov-13
IU223860	RL/Reg Signature Rev.0 Closure Document 600-369	0%	4	25-Nov-13*	03-Dec-13
Backfill					
IU223890	Backfill 600-369	0%	1	21-Jan-14	21-Jan-14
Revegetation					
IU223900	Revegetation 600-369	0%	12	10-Nov-14*	02-Dec-14
MR IU-2 & Segment 4					
Loadout					
IU226090	Remove IU-2 & Segment 4 MR	70%	19	10-Jun-13 A	16-Dec-13
600-368					
Final Project Closeout					
IU223730	Prepare Closure Document 600-368	76%	30	15-Aug-13 A	08-Jan-14
IU223740	RL/Reg Review of Draft A Closure Document 600-368	50%	5	12-Sep-13 A	18-Nov-13
IU223750	RL/Reg Signature Rev.0 Closure Document 600-368	0%	4	25-Nov-13*	03-Dec-13
Backfill					
IU223780	Backfill 600-368	0%	1	20-Jan-14*	20-Jan-14
Revegetation					
IU223790	Revegetation 600-368	0%	12	10-Nov-14*	02-Dec-14
600-370					
Final Project Closeout					
IU223950	Prepare Closure Document 600-370	69%	56	26-Sep-13 A	25-Feb-14
IU223960	RL/Reg Review of Draft A Closure Document 600-370	0%	26	11-Nov-13*	31-Dec-13
IU223970	RL/Reg Signature Rev.0 Closure Document 600-370	0%	4	30-Jan-14*	05-Feb-14
Backfill					
IU224000	Backfill 600-370	0%	1	26-Feb-14	26-Feb-14
Revegetation					
IU224010	Revegetation 600-370	0%	12	10-Nov-14*	02-Dec-14
600-356					

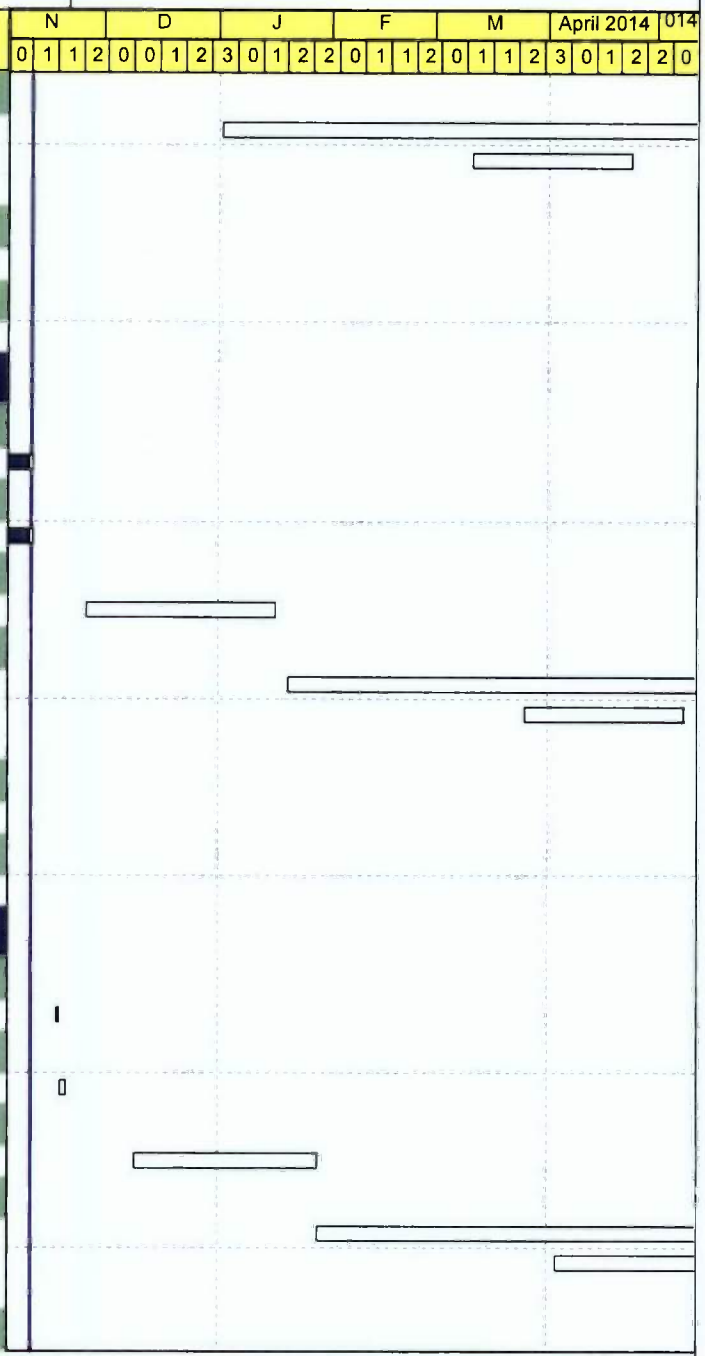
Activity ID	Activity Name	% Cmpl	RD	Start	Finish
Excavation					
IU226500	Plume Chase 600-356 (Segment 1)	0%	6	26-Nov-13*	09-Dec-13
Closeout Sampling & Docs					
IU226070	Work Instructions 600-356	0%	75	11-Nov-13	31-Mar-14
IU226450	RL/Reg Review of Draft A Work Instruction 600-356	0%	26	07-Jan-14	20-Feb-14
IU226460	RL/Reg Signature Rev.0 WI 600-356	0%	4	24-Feb-14	27-Feb-14
IU226040	Closeout Sampling 600-356	0%	26	01-Apr-14	14-May-14
Final Project Closeout					
IU226050	Prepare Closure Document 600-356	0%	93	15-May-14	29-Oct-14
IU226470	RL/Reg Review of Draft A Closure Document 600-356	0%	26	23-Jul-14	08-Sep-14
IU226480	RL/Reg Signature Rev.0 Closure Document 600-356	0%	4	07-Oct-14	13-Oct-14
Backfill					
IU226030	Backfill 600-356	0%	1	30-Oct-14	30-Oct-14
Revegetation					
IU226060	Revegetation 600-356	0%	1	10-Nov-14*	10-Nov-14
600-371					
Final Project Closeout					
IU224060	Prepare Closure Document 600-371	76%	42	03-Sep-13 A	29-Jan-14
IU224070	RL/Reg Review of Draft A Closure Document 600-371	50%	16	01-Oct-13 A	10-Dec-13
IU224080	RL/Reg Signature Rev.0 Closure Document 600-371	0%	4	14-Jan-14	20-Jan-14
Backfill					
IU224110	Backfill 600-371	0%	1	30-Jan-14	30-Jan-14
Revegetation					
IU224120	Revegetation 600-371	0%	12	10-Nov-14*	02-Dec-14
MR fencing removal 600-275					
Loadout					
IU226080	MR Remove Fence around 600-275 (Segment 1)	20%	22	01-Aug-13 A	19-Dec-13
600-372					
Final Project Closeout					
IU224170	Prepare Closure Document 600-372	69%	61	07-Oct-13 A	05-Mar-14
IU224180	RL/Reg Review of Draft A Closure Document 600-372	0%	26	12-Dec-13	30-Jan-14
IU224190	RL/Reg Signature Rev.0 Closure Document 600-372	0%	4	04-Mar-14	10-Mar-14
Backfill					
IU224220	Backfill 600-372	0%	1	06-Mar-14	06-Mar-14
Revegetation					



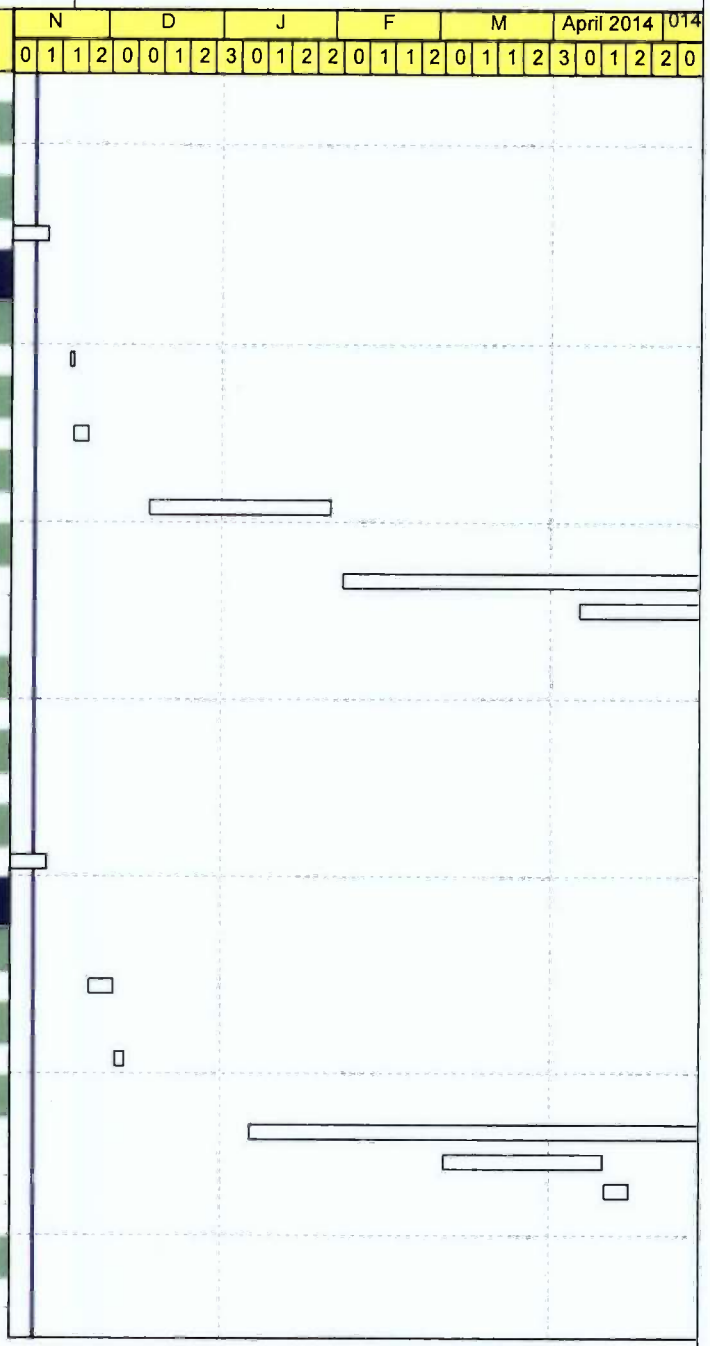
Activity ID	Activity Name	% Cmpl	RD	Start	Finish
IU224230	Revegetation 600-372	0%	12	10-Nov-14*	02-Dec-14
600-373					
Excavation					
IU224350	Excavation 600-373	98%	1	18-Jul-13 A	11-Nov-13
Loadout					
IU224250	Loadout 600-373	98%	1	18-Jul-13 A	11-Nov-13
Closeout Sampling & Docs					
IU224270	Closure Sampling 600-373	10%	14	02-Aug-13 A	05-Dec-13
Final Project Closeout					
IU224280	Prepare Closure Document 600-373	0%	93	09-Dec-13	27-May-14
IU224290	RL/Reg Review of Draft A Closure Document 600-373	0%	26	18-Feb-14	02-Apr-14
IU224300	RL/Reg Signature Rev.0 Closure Document 600-373	0%	4	01-May-14	07-May-14
Backfill					
IU224330	Backfill 600-373	0%	1	28-May-14	28-May-14
Revegetation					
IU224340	Revegetation 600-373	0%	12	10-Nov-14*	02-Dec-14
600-375					
Excavation					
IU224570	Excavation 600-375	98%	2	06-Aug-13 A	12-Nov-13
Loadout					
IU224470	Loadout 600-375	98%	2	06-Aug-13 A	12-Nov-13
Closeout Sampling & Docs					
IU224490	Closure Sampling 600-375	0%	26	02-Dec-13	20-Jan-14
Final Project Closeout					
IU224500	Prepare Closure Document 600-375	0%	93	21-Jan-14	07-Jul-14
IU224510	RL/Reg Review of Draft A Closure Document 600-375	0%	26	27-Mar-14	12-May-14
IU224520	RL/Reg Signature Rev.0 Closure Document 600-375	0%	4	11-Jun-14	17-Jun-14
Backfill					
IU224550	Backfill 600-375	0%	1	08-Jul-14	08-Jul-14
Revegetation					
IU224560	Revegetation 600-375	0%	12	10-Nov-14*	02-Dec-14
600-376					
Closeout Sampling & Docs					
IU224600	Closure Sampling 600-376	0%	26	11-Nov-13	31-Dec-13



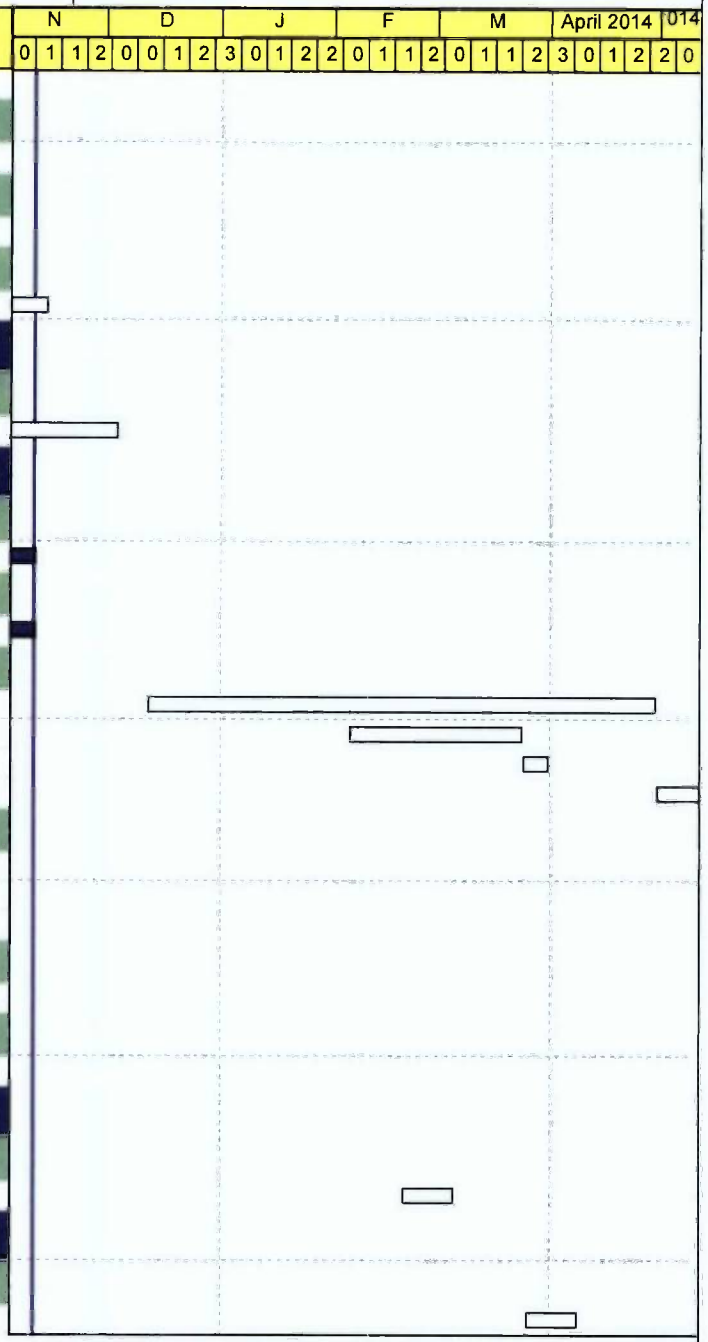
Activity ID	Activity Name	% Cmpl	RD	Start	Finish
Final Project Closeout					
IU224610	Prepare Closure Document 600-376	0%	93	02-Jan-14	17-Jun-14
IU224620	RL/Reg Review of Draft A Closure Document 600-376	0%	26	11-Mar-14	23-Apr-14
IU224630	RL/Reg Signature Rev.0 Closure Document 600-376	0%	4	22-May-14	29-May-14
Backfill					
IU224660	Backfill 600-376	0%	1	09-Jul-14	09-Jul-14
Revegetation					
IU224670	Revegetation 600-376	0%	12	10-Nov-14*	02-Dec-14
600-374					
Excavation					
IU224460	Excavation 600-374	98%	1	17-Sep-13 A	11-Nov-13
Loadout					
IU224360	Loadout 600-374	98%	1	17-Sep-13 A	11-Nov-13
Closeout Sampling & Docs					
IU224380	Closure Sampling 600-374	0%	26	26-Nov-13	16-Jan-14
Final Project Closeout					
IU224390	Prepare Closure Document 600-374	0%	93	20-Jan-14	02-Jul-14
IU224400	RL/Reg Review of Draft A Closure Document 600-374	0%	26	26-Mar-14	08-May-14
IU224410	RL/Reg Signature Rev.0 Closure Document 600-374	0%	4	10-Jun-14	16-Jun-14
Backfill					
IU224440	Backfill 600-374	0%	1	07-Jul-14	07-Jul-14
Revegetation					
IU224450	Revegetation 600-374	0%	12	10-Nov-14*	02-Dec-14
600-377					
Excavation					
IU224790	Excavation 600-377	0%	1	18-Nov-13	18-Nov-13
Loadout					
IU224690	Loadout 600-377	0%	2	19-Nov-13	20-Nov-13
Closeout Sampling & Docs					
IU224710	Closure Sampling 600-377	0%	26	09-Dec-13	28-Jan-14
Final Project Closeout					
IU224720	Prepare Closure Document 600-377	0%	93	28-Jan-14	15-Jul-14
IU224730	RL/Reg Review of Draft A Closure Document 600-377	0%	26	03-Apr-14	20-May-14
IU224740	RL/Reg Signature Rev.0 Closure Document 600-377	0%	4	18-Jun-14	25-Jun-14
Backfill					



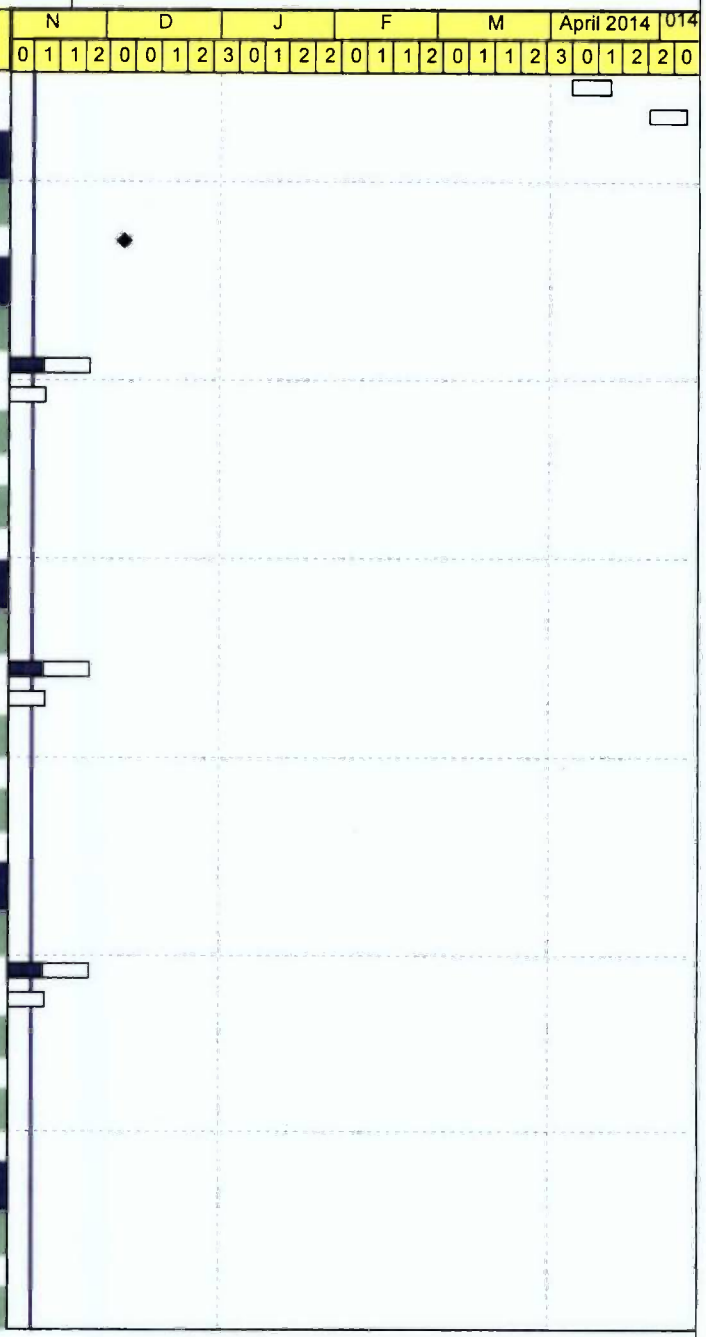
Activity ID	Activity Name	% Cmpl	RD	Start	Finish
IU224770	Backfill 600-377	0%	1	15-Jul-14	16-Jul-14
Revegetation					
IU224780	Revegetation 600-377	0%	12	10-Nov-14*	02-Dec-14
Culture Resource Reviews					
IU226370	Cult/Eco Clearance 600-377	90%	4	01-May-13 A	14-Nov-13
600-379					
Excavation					
IU225010	Excavation 600-379	0%	1	20-Nov-13	21-Nov-13
Loadout					
IU224910	Loadout 600-379	0%	2	21-Nov-13	25-Nov-13
Closeout Sampling & Docs					
IU224930	Closure Sampling 600-379	0%	26	12-Dec-13	30-Jan-14
Final Project Closeout					
IU224940	Prepare Closure Document 600-379	0%	93	03-Feb-14	17-Jul-14
IU224950	RL/Reg Review of Draft A Closure Document 600-379	0%	26	09-Apr-14	22-May-14
IU224960	RL/Reg Signature Rev.0 Closure Document 600-379	0%	4	24-Jun-14	30-Jun-14
Backfill					
IU224990	Backfill 600-379	0%	1	21-Jul-14	21-Jul-14
Revegetation					
IU225000	Revegetation 600-379	0%	12	10-Nov-14*	02-Dec-14
Culture Resource Reviews					
IU226390	Cult/Eco Clearance 600-379	90%	4	01-May-13 A	14-Nov-13
600-378					
Excavation					
IU224900	Excavation 600-378	0%	2	26-Nov-13	02-Dec-13
Loadout					
IU224800	Loadout 600-378	0%	3	03-Dec-13	05-Dec-13
Closeout Sampling & Docs					
IU224860	Prepare Work Instruction 600-378	0%	75	09-Jan-14	21-May-14
IU224870	RL/Reg Review of Draft A Work Instruction 600-378	0%	26	03-Mar-14	15-Apr-14
IU224810	RL/Reg Signature Rev.0 WI 600-378	0%	4	16-Apr-14	22-Apr-14
IU224820	Closure Sampling 600-378	0%	26	22-May-14	09-Jul-14
Final Project Closeout					
IU224830	Prepare Closure Document 600-378	0%	93	10-Jul-14	29-Dec-14
IU224840	RL/Reg Review of Draft A Closure Document 600-378	0%	26	16-Sep-14	29-Oct-14



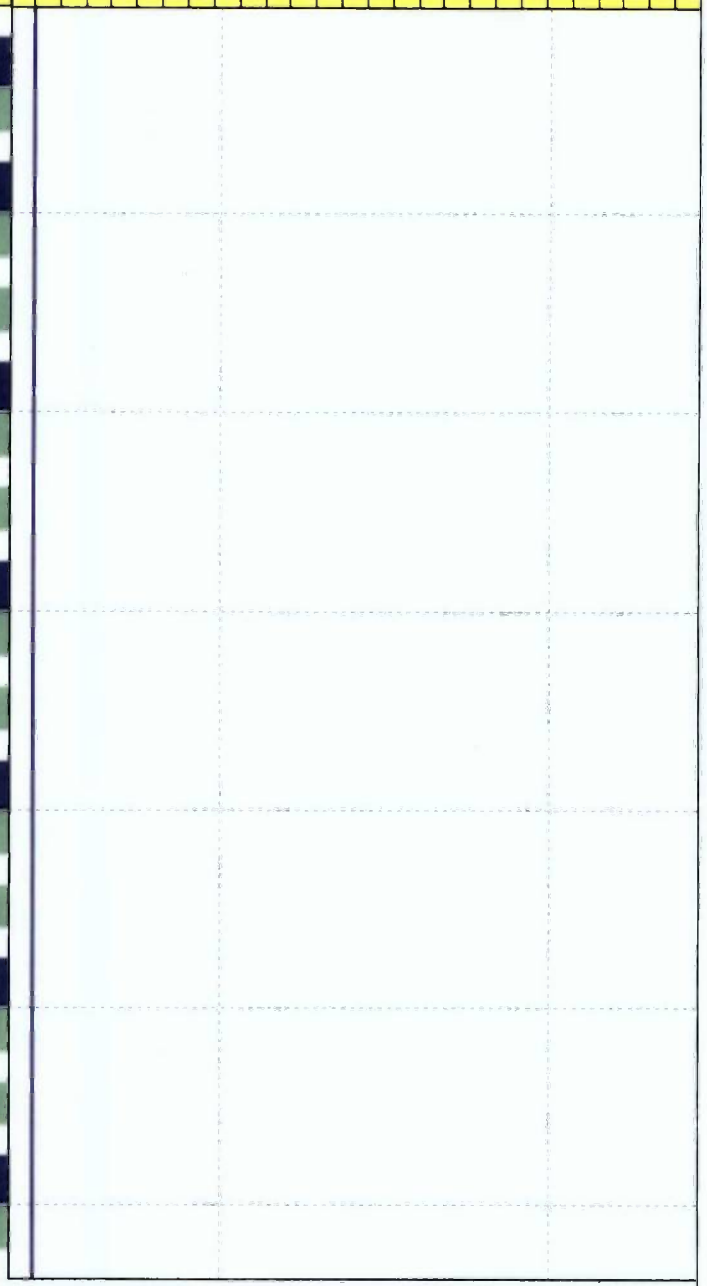
Activity ID	Activity Name	% Cmpl	RD	Start	Finish
IU224850	RL/Reg Signature Rev.0 Closure Document 600-378	0%	4	02-Dec-14	08-Dec-14
Backfill					
IU224880	Backfill 600-378	0%	1	30-Dec-14	30-Dec-14
Revegetation					
IU224890	Revegetation 600-378	0%	12	31-Dec-14*	21-Jan-15
Culture Resource Reviews					
IU226380	Cult/Eco Clearance 600-378	90%	4	01-May-13 A	14-Nov-13
100-B/C Additional MR Items					
Loadout					
IU226250	100-B/C Additional MR Items	50%	12	21-Aug-13 A	03-Dec-13
600-279					
Excavation					
IU223360	Excavation 600-279	98%	1	30-Sep-13 A	11-Nov-13
Loadout					
IU223260	Loadout 600-279	98%	1	01-Oct-13 A	11-Nov-13
Closeout Sampling & Docs					
IU223320	Prepare Work Instruction 600-279	0%	75	12-Dec-13	29-Apr-14
IU223330	RL/Reg Review of Draft A Work Instruction 600-279	0%	26	05-Feb-14	24-Mar-14
IU223270	RL/Reg Signature Rev.0 WI 600-279	0%	4	25-Mar-14	31-Mar-14
IU223280	Closure Sampling 600-279	0%	26	30-Apr-14	16-Jun-14
Final Project Closeout					
IU223290	Prepare Closure Document 600-279	0%	93	17-Jun-14	02-Dec-14
IU223300	RL/Reg Review of Draft A Closure Document 600-279	0%	26	21-Aug-14	07-Oct-14
IU223310	RL/Reg Signature Rev.0 Closure Document 600-279	0%	4	05-Nov-14	11-Nov-14
Backfill					
IU223340	Backfill 600-279	0%	1	03-Dec-14	03-Dec-14
Revegetation					
IU223350	Revegetation 600-279	0%	12	04-Dec-14*	29-Dec-14
100-K Area Exit Items					
Loadout					
IU226400	100-K Exit Items Removal	0%	8	20-Feb-14*	05-Mar-14
IU Exit Items					
Loadout					
IU226420	IU-2 Exit Items Removal	0%	8	26-Mar-14*	08-Apr-14



Activity ID	Activity Name	% Cmpl	RD	Start	Finish
IU226430	IU-6 Exit Items Removal	0%	8	07-Apr-14*	17-Apr-14
IU226440	Segment 4 Exit Items Removal	0%	8	28-Apr-14*	08-May-14
Milestones					
Milestone					
IU226350	Completion of EX/LO at IU-2 & Segment 4 Sites	0%	0		05-Dec-13
600-298					
Final Project Closeout					
IU2290	Prepare Closure Document 600-298	95%	10	25-Mar-13 A	26-Nov-13
IU2310	RL/Reg Signature Rev.0 Closure Document 600-298	80%	4	28-Aug-13 A	14-Nov-13
Backfill					
IU2230	Backfill 600-298	0%	1	15-Jul-14*	15-Jul-14
Revegetation					
IU2250	Revegetation 600-298	0%	1	25-Apr-16*	25-Apr-16
600-299					
Final Project Closeout					
IU22180	Prepare Closure Document 600-299	95%	10	25-Mar-13 A	26-Nov-13
IU22200	RL/Reg Signature Rev.0 Closure Document 600-299	80%	4	28-Aug-13 A	14-Nov-13
Backfill					
IU22120	Backfill 600-299	0%	1	14-Jul-14*	14-Jul-14
Revegetation					
IU22140	Revegetation 600-299	0%	1	26-Apr-16*	26-Apr-16
600-300					
Final Project Closeout					
IU22290	Prepare Closure Document 600-300	95%	10	25-Mar-13 A	26-Nov-13
IU22310	RL/Reg Signature Rev.0 Closure Document 600-300	80%	4	28-Aug-13 A	14-Nov-13
Backfill					
IU22230	Backfill 600-300	0%	1	16-Jul-14*	16-Jul-14
Revegetation					
IU22250	Revegetation 600-300	0%	1	27-Apr-16	27-Apr-16
600-303					
Backfill					
IU222550	Backfill 600-303	0%	1	10-Jul-14*	10-Jul-14
Revegetation					



Activity ID	Activity Name	% Cmpl	RD	Start	Finish
IU222570	Revegetation 600-303	0%	1	14-Jul-14*	14-Jul-14
600-313					
Revegetation					
IU221300	Revegetation 600-313	0%	1	15-Jul-14*	15-Jul-14
600-316					
Backfill					
IU221440	Backfill 600-316	0%	1	17-Jul-14*	17-Jul-14
Revegetation					
IU221460	Revegetation 600-316	0%	1	21-Jul-14	21-Jul-14
600-317					
Backfill					
IU221550	Backfill 600-317	0%	1	22-Jul-14*	22-Jul-14
Revegetation					
IU221570	Revegetation 600-317	0%	1	23-Jul-14	23-Jul-14
600-318					
Backfill					
IU221660	Backfill 600-318	0%	1	23-Jul-14*	23-Jul-14
Revegetation					
IU221680	Revegetation 600-318	0%	1	24-Jul-14	24-Jul-14
600-319					
Backfill					
IU221770	Backfill 600-319	0%	1	21-Jul-14*	21-Jul-14
Revegetation					
IU221790	Revegetation 600-319	0%	1	28-Jul-14	28-Jul-14
600-320					
Backfill					
IU221880	Backfill 600-320	0%	1	15-Jul-14*	15-Jul-14
Revegetation					
IU221900	Revegetation 600-320	0%	1	29-Jul-14	29-Jul-14
600-321					
Backfill					
IU221990	Backfill 600-321	0%	1	16-Jul-14*	16-Jul-14



Activity ID	Activity Name	% Cmpl	RD	Start	Finish
Revegetation					
IU222010	Revegetation 600-321	0%	1	30-Jul-14	30-Jul-14
600-328					
Revegetation					
IU222340	Revegetation 600-328	0%	1	31-Jul-14	31-Jul-14
600-108					
Revegetation					
UC501E30	Reveg for 600-108 bpa disturbance	0%	22	18-Nov-13*	31-Dec-13
600-380					
Loadout					
IU225020	Loadout 600-380 (D/H Boundary Site)	0%	1	09-Dec-13*	09-Dec-13
Closeout Sampling & Docs					
IU225080	Prepare Work Instruction 600-380	0%	75	13-Jan-14*	22-May-14
IU225090	RL/Reg Review of Draft A Work Instruction 600-380	0%	26	04-Mar-14	16-Apr-14
IU225030	RL/Reg Signature Rev.0 WI 600-380	0%	4	17-Apr-14*	23-Apr-14
IU225040	Closure Sampling 600-380	0%	26	27-May-14	10-Jul-14
Final Project Closeout					
IU225050	Prepare Closure Document 600-380	0%	93	14-Jul-14	30-Dec-14
IU225060	RL/Reg Review of Draft A Closure Document 600-380	0%	26	17-Sep-14	30-Oct-14
IU225070	RL/Reg Signature Rev.0 Closure Document 600-380	0%	4	03-Dec-14	09-Dec-14

Attachment 16

173624

^WCH Document Control

From: Saueressig, Daniel G
Sent: Monday, November 04, 2013 4:19 PM
To: ^WCH Document Control
Subject: FW: REQUEST FOR TEMPORARY CONTAINER STORAGE AREA
Attachments: myMap DS.JPG; RE REQUEST FOR TEMPORARY CONTAINER STORAGE AREA.rtf

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

Thanks,

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

From: Guzzetti, Christopher [mailto:Guzzetti.Christopher@epa.gov]
Sent: Thursday, October 31, 2013 2:19 PM
To: Glossbrenner, Ellwood T; Saueressig, Daniel G
Subject: RE: REQUEST FOR TEMPORARY CONTAINER STORAGE AREA

I am ok with it as long as Ecology doesn't have issue.

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

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

From: Glossbrenner, Ellwood T [mailto:ellwood.glossbrenner@rl.doe.gov]
Sent: Thursday, October 31, 2013 1:41 PM
To: Saueressig, Daniel G
Cc: Guzzetti, Christopher
Subject: RE: REQUEST FOR TEMPORARY CONTAINER STORAGE AREA

Dan,

I'm fine with this approach, but I think that this area (100-HR-3 underlies this area) will fall under Ecology's jurisdiction so you'll need to talk with Artie Kapell.

Ellwood

From: Saueressig, Daniel G [mailto:dgsauere@wch-rcc.com]
Sent: Thursday, October 31, 2013 1:25 PM
To: Guzzetti, Christopher; Glossbrenner, Ellwood T
Subject: REQUEST FOR TEMPORARY CONTAINER STORAGE AREA

Chris/Ellwood, I'd like to request your approval to set up a temporary container storage area to support storage of some waste from 600-383:4. This site is between 100-D and 100-H. I've depicted the location we'd like to temporarily store the waste pending shipment and disposal on the attached map. The location is just south of an existing asphalt road which will make pickup and transport of the waste easier since the waste site is approximately 100 yards further south in the desert. The site contains dry cell batteries and contaminated soil. We believe only one 5 gallon drum will be needed for the dry cell batteries and a 55 gallon drum for the soil. Plans are to macroencapsulate the dry cell batteries at ERDF and send the soil offsite for treatment due to the cadmium concentration. I will send a separate request to send the soil offsite for treatment and disposal once the offsite facility has been officially determined.

Plans are to have the waste removed in December, possibly January at the latest.

Let me know if you concur.

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

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

<< File: myMap DS.JPG >>

From: Kapell, Arthur (ECY) [akap461@ECY.WA.GOV]
Sent: Monday, November 04, 2013 1:27 PM
To: Saueressig, Daniel G
Subject: RE: REQUEST FOR TEMPORARY CONTAINER STORAGE AREA

Thanks for the notification Dan. Can you let me know when it starts operation. And is the waste only coming from 600-383:4, or will they also come from some of the other 600-383 and -384 sites? Thanks.

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

From: Saueressig, Daniel G [mailto:dgsauere@wch-rcc.com]
Sent: Monday, November 04, 2013 11:33 AM
To: Kapell, Arthur (ECY)
Subject: FW: REQUEST FOR TEMPORARY CONTAINER STORAGE AREA

Artie, EPA and DOE have approved setting up a temporary container storage area for some IU-2 waste between 100-D and 100-H as discussed below. Like I stated in my request, I don't foresee the waste being there past January 2014 at the latest.

Let me know if you have any questions or need any additional information.

Thanks,

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

From: Saueressig, Daniel G
Sent: Thursday, October 31, 2013 1:25 PM
To: Guzzetti, Christopher; Glossbrenner, Ellwood T
Subject: REQUEST FOR TEMPORARY CONTAINER STORAGE AREA

Chris/Ellwood, I'd like to request your approval to set up a temporary container storage area to support storage of some waste from 600-383:4. This site is between 100-D and 100-H. I've depicted the location we'd like to temporarily store the waste pending shipment and disposal on the attached map. The location is just south of an existing asphalt road which will make pickup and transport of the waste easier since the waste site is approximately 100 yards further south in the desert. The site contains dry cell batteries and contaminated soil. We believe only one 5

gallon drum will be needed for the dry cell batteries and a 55 gallon drum for the soil. Plans are to macroencapsulate the dry cell batteries at ERDF and send the soil offsite for treatment due to the cadmium concentration. I will send a separate request to send the soil offsite for treatment and disposal once the offsite facility has been officially determined.

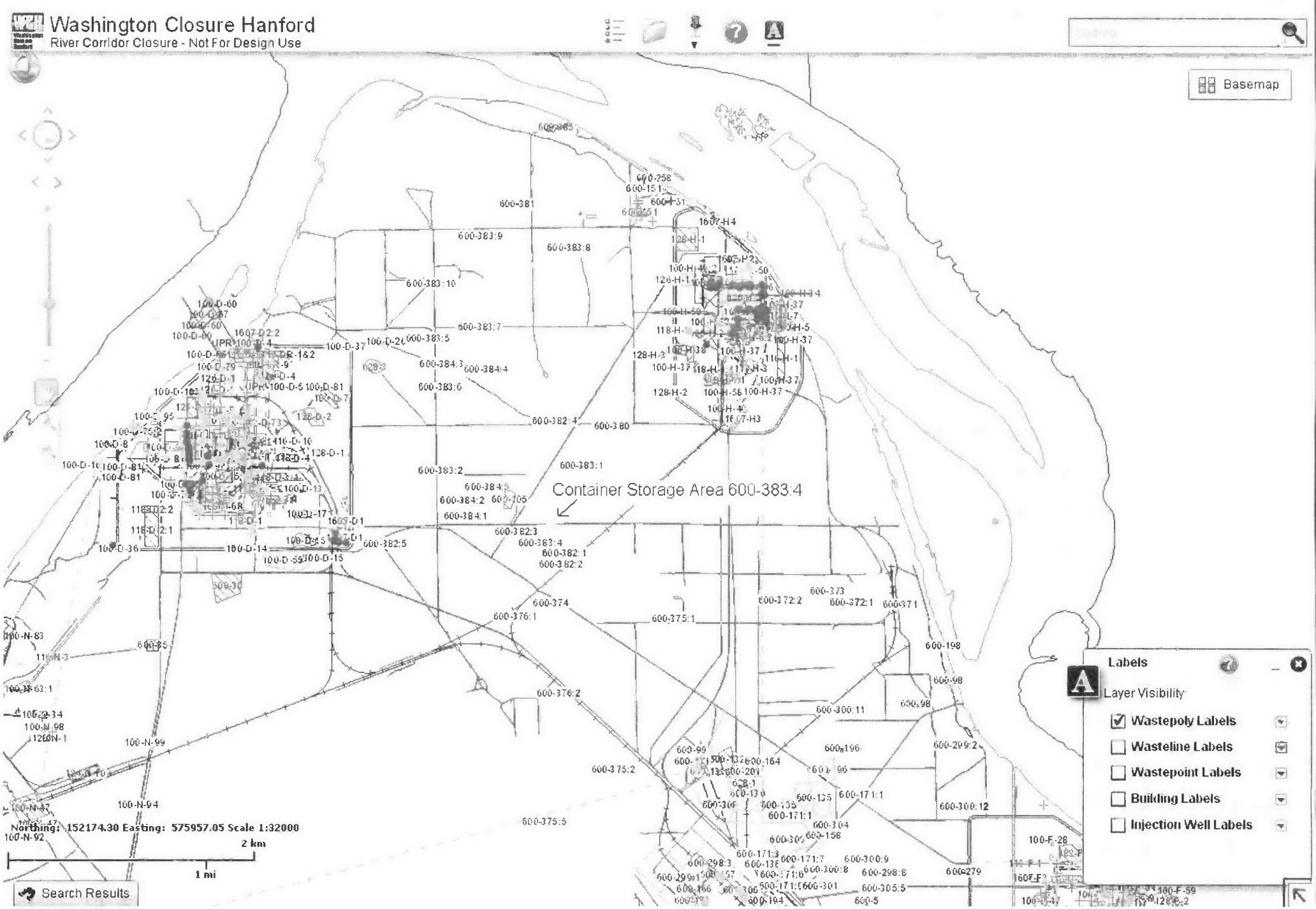
Plans are to have the waste removed in December, possibly January at the latest.

Let me know if you concur.

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

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

<< File: myMap DS.JPG >>


Washington Closure Hanford
River Corridor Closure - Not For Design Use
Basemap
Container Storage Area 600-383:4
Labels
Layer Visibility
Wastepoly Labels
Wasteline Labels
Wastepoint Labels
Building Labels
Injection Well Labels
Northing: 152174.30 Easting: 575957.05 Scale 1:32000
2 km
1 mi
Search Results

Attachment 17

173728

^WCH Document Control

From: Saueressig, Daniel G
Sent: Monday, November 11, 2013 7:04 AM
To: ^WCH Document Control
Subject: FW: TRANSITE PIPE AT MR SITE SG4-477

Please provide a chron number. This email confirms a regulatory interpretation.

Thanks,

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

From: Guzzetti, Christopher [mailto:Guzzetti.Christopher@epa.gov]
Sent: Thursday, November 07, 2013 4:42 PM
To: Saueressig, Daniel G
Subject: FW: TRANSITE PIPE AT MR SITE SG4-477

Dan-

See input from Pavitt below.

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: Pavitt, John
Sent: Thursday, November 07, 2013 4:37 PM
To: Guzzetti, Christopher
Subject: RE: TRANSITE PIPE AT MR SITE SG4-477

Chris, cement pipe is Category II nonfriable asbestos which is typically non-regulated. To the extent that the pipe can be pulled apart without crushing, pulverizing or reducing it to dust, it will remain non-regulated. EPA guidance says the "some incidental breakage" is allowed when handling ACM cement, which appears to be the case in the photos you shared.

However, if they find that the pipe will not pull apart and they have to begin cutting it or breaking it into small pieces, the pipe will then be classified as regulated (RACM) and all safe work practice standards under the NESHAP will apply, including the use of wet methods to prevent visible emissions.

Let me know if you need additional details.

Thanks,

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

From: Guzzetti, Christopher
Sent: Thursday, November 07, 2013 8:57 AM
To: Pavitt, John
Subject: FW: TRANSITE PIPE AT MR SITE SG4-477

John,

The project inquired about this again today. I know you have been busy with other things but can you provide input at your earliest convenience.

Thanks,

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: Guzzetti, Christopher
Sent: Monday, July 15, 2013 10:46 AM
To: Pavitt, John
Subject: FW: TRANSITE PIPE AT MR SITE SG4-477

John,

See the email below and the attached pictures. I talked with the project about this the other day and they are going to try and separate the pipes at the joint first, if they don't separate then they will break them. Let me

know what you think.

<< File: SG4-447 1.JPG >> << File: SG4-447 6.JPG >> << File: SG4-447 8.JPG >>

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: Monday, June 10, 2013 3:33 PM
To: Guzzetti, Christopher
Cc: Glossbrenner, Ellwood T; Fancher, Jonathan D (Jon)
Subject: TRANSITE PIPE AT MR SITE SG4-477

Chris, as you know, Section 2.4 of the General Decommissioning RAWP (DOE/RL-2010-34) requires when demolition activities that involve Category II non-friable asbestos are being planned, we receive EPA concurrence on our demolition approach to ensure the Category II asbestos will not become crumbled, pulverized, or reduced to powder, by the forces expected to act upon it during demolition.

MR site SG4-477 is an old transite irrigation pipe that runs approximately 450 meters through the desert north of the old Hanford Townsite (near the old gun range and Hanford Canal). WCH plans to use a bucket with a thumb to break the transite pipe into manageable pieces that would fit into ERDF containers. The areas the pipes will be broken will be near the existing joints and all activities will be performed using wet methods to ensure no visible emission. Our Asbestos Competent Person will visually verify removal of all asbestos material prior to downposting the area. Let me know if you want to walk down the site.

Thanks,

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

Attachment 18

300 Area Closure Project Status
November 14, 2013
100/300 Area Combined Unit Manager Meeting

Ongoing Activities

- 309 Reactor – Core drilling, beam pocket cutting, lower reactor space interference removal nearly complete.
  340 Complex: Excavation under the vault for placement of lifting beams nearly complete.
- 324 – Continue min-safe operations. Evaluating proposals from potential offerors for 300-296 retrieval.
- Remaining 300 Area Waste Sites – Continue to advance remedial designs and decision units.

Demolition & Remediation Preparation Activities

- 3730 – Cobalt 60 gamma well loaded and shipped to ERDF on 11/8/13
- 3760 – Demolition and backfill complete.
- 326 – Above-grade demolition complete, initiated below-grade demolition.
- 3790 – Deactivation and hazardous material removal initiated.
- 340 – Completing final preparations for lift assembly installation.

60-Day Project Look Ahead

- Continue preparations for 340 Vault lift and transport to ERDF.
- Continue 309 PRTR reactor removal preparations.
- Complete demolition of the 326 Building.
- Initiate demolition of 3790.
- Begin mobilizing for south Apple waste sites remediation.
- Initiate revision to the 300-FF-2 portion of the RDR/RAWP.
- Complete south queue expansion for south of Apple work.
- Backfill UPR-300-4 excavation.
- Complete 3730 demolition and backfill.

Attachment 19

ESH&QA Mission Completion Project
November 14, 2013

Long-Term Stewardship

- The Segment 5/400 Area Interim Remedial Action Report is currently in review with EPA.

100-K Shoreline Characterization

- The draft data summary report for the 100-K shoreline characterization was submitted to RL for review.

Document Review Look-Ahead

- None