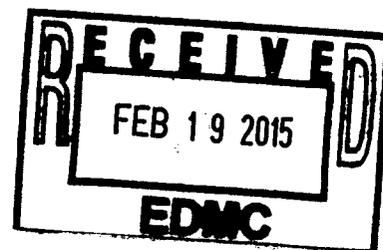


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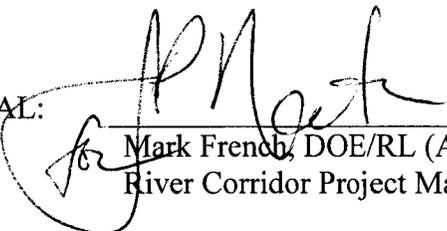
## 100/300 AREA UNIT MANAGER MEETING ATTENDANCE AND DISTRIBUTION

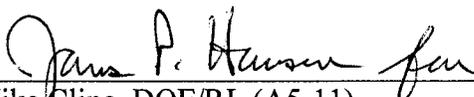
NAME	E-MAIL ADDRESS	MSIN	COMP
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Guzzetti, Chris	Guzzetti.Christopher@epa.gov	B1-46	EPA
Hadley, Karl A	karl.hadley@wch-rcc.com	H4-21	WCH

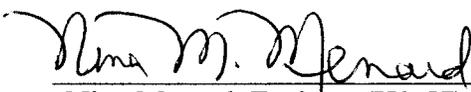


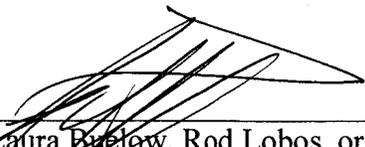
100/300 AREA UNIT MANAGERS MEETING  
APPROVAL OF MEETING MINUTES

January 8, 2015

APPROVAL:  Date 2/12/15  
Mark French, DOE/RL (A6-38)  
River Corridor Project Manager

APPROVAL:  Date 2/12/15  
Mike Cline, DOE/RL (A5-11)  
Acting Groundwater Project Manager

APPROVAL:  Date 2/12/15  
Nina Menard, Ecology (H0-57)  
Environmental Restoration Project  
Manager

APPROVAL:  Date 2/12/15  
Laura Byelow, Rod Lobos, or Christopher  
Guzzetti, EPA (B1-46)  
100 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**

**January 8, 2015**

### **ADMINISTRATIVE**

- **Next Unit Manager Meeting (UMM)** – The next meeting will be held February 12, 2015, at the Washington Closure Hanford (WCH) Office Building, 2620 Fermi Avenue, Room C209.
- **Attendees/Delegations** – Attachment A is the list of attendees. Representatives from each agency were present to conduct the business of the UMM.
- **Approval of Minutes** – The December 11, 2014, meeting minutes were approved by the U.S. Environmental Protection Agency (EPA), Washington State Department of Ecology (Ecology), and U.S. Department of Energy, Richland Operations Office (RL).
- **Action Item Status** – The status of action items was reviewed and updates were provided (see Attachment B).
- **Agenda** – Attachment C is the Regular Session meeting agenda.

### **EXECUTIVE SESSION (Tri-Parties Only)**

An Executive Session was not held by RL, EPA, and Ecology prior to the January 8, 2015, UMM.

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

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

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

Attachment 1 provides status and information for groundwater. Attachment 3 provides status and information for Washington Closure Hanford (WCH) Closure Operations activities at 100-B/C, 100-D, 100-H, 100-N, 100-IU-2/6, and 618-10. Attachment 4 provides the Field Remediation schedule for 100-B, 100-D, 100-H, 100-N, and 100-IU-2/6. No issues were identified and no agreements or action items were documented.

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

Attachment 1 provides status and information for groundwater. Attachment 3 provides status and information for WCH Closure Operations activities at 100-B/C, 100-D, 100-H, 100-N, 100-IU-2/6, and 618-10. Attachment 4 provides the Field Remediation schedule for 100-B, 100-D, 100-H, 100-N, and 100-IU-2/6. No issues were identified and no agreements or action items were documented.

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

Attachment 1 provides status and information for groundwater. Attachment 3 provides status and information for WCH Closure Operations activities at 100-B/C, 100-D, 100-H, 100-N, 100-IU-2/6, and 618-10. Attachment 4 provides the Field Remediation schedule for 100-B, 100-D, 100-H, 100-N, and 100-IU-2/6. Attachment 5 provides the backfill schedule for 100-D, 100-H, and 100-IU-2/6. No issues were identified and no action items were documented.

Agreement 1: Attachment 6 provides EPA's approval of a non-contiguous onsite determination request to suspect friable asbestos pipe lagging material from 100-H-28:5 in an ERDF can at 100-D for disposal at ERDF. The material will be double-bagged and the area will be downposted from asbestos control with a visual inspection from an asbestos competent person.

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

Attachment 1 provides status and information for groundwater. Attachment 3 provides status and information for WCH Closure Operations activities at 100-B/C, 100-D, 100-H, 100-N, 100-IU-2/6, and 618-10. Attachment 4 provides the Field Remediation schedule for 100-B, 100-D, 100-H, 100-N, and 100-IU-2/6. Attachment 5 provides the backfill schedule for 100-D, 100-H, and 100-IU-2/6. No issues were identified and no action items were documented.

Agreement 1: Attachment 7 provides EPA's concurrence of a request to backfill and revegetate the 600-332 waste site.

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

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

Agreement 1: Attachment 8 provides EPA's approval to set up a staging pile area to support remediation at 600-367.

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

Attachment 1 provides status and information for groundwater. Attachment 9 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 10 provides status and information regarding the Long-Term Stewardship and the 300 Area Final Action ROD RDR/RAWPs. No issues were identified and no agreements or action items were documented.

### **ORCHARD LANDS**

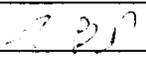
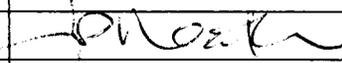
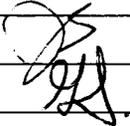
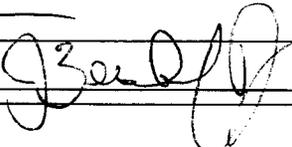
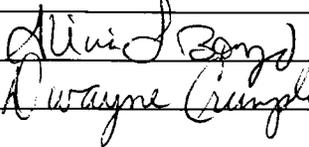
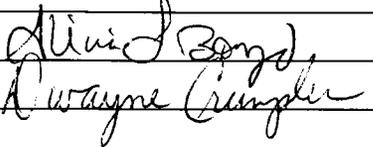
John Sands noted that DOE/RL had received the work plan for review. Chris Guzzetti (EPA) indicated that he would set up a meeting for discussing the topic outside the UMM.

# Attachment A

100/300 AREA UNIT MANAGER MEETING

ATTENDANCE AND DISTRIBUTION

January 8, 2015

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# Attachment B

100/300 Area UMM  
Action List  
January 8, 2015

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Status
O	100-202	RL	G. Sinton	Groundwater	CHPRC will present a demonstration of the web-enabled 100 Area and 200 Area pump and treat report.	Open: 10/9/14; Action:

# Attachment C

100/300 Area Unit Manager Meeting  
January 8, 2015  
Washington Closure Hanford Building  
2620 Fermi Avenue, Richland, WA 99354  
Room C209; 2:00 p.m.

**Administrative:**

- Approval and signing of previous meeting minutes (December 11, 2014)
- Update to Action Items List
- Next UMM (2/12/2015, Room C209)

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

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

**Special Topics/Other**

**Adjourn**

# Attachment 1

## Remedy Selection & Implementation

### *Summary Hanford Sampling Program*

Hanford's overall Site groundwater monitoring program managed by CHPRC (river corridor and central plateau) coordinates collection of groundwater samples from wells and aquifer tubes, as well as surface water samples from springs. Sample trips are scheduled by target month and prioritized based on project needs. Target sample dates (months) are chosen to minimize the number of sample trips by temporally aligning requests from multiple activities for a single location into a single trip where practical.

For locations scheduled less frequently than monthly and where data quality objectives permit, collection may occur outside the target month scheduled (before or after the target month). The amount of time a trip is allowed to float is determined by the data quality objectives and sample frequency. This allows for the optimization of available resources and reduces sampling and analysis costs. This report summarizes sampling trip metrics both as trips scheduled in a given month and as trips collected in a given month.

### Sample Trip Status by Month Scheduled

For Fiscal Year 2015 Hanford's overall Site groundwater monitoring program has 3,004 sample trips scheduled for collection. During December 2014 (month three) the program successfully completed 212 groundwater sampling trips of the 286 scheduled for December. This combined with 5 trips scheduled for December that were collected in November (before the target month) brings the total number of sample trips scheduled for December 2014 to be collected successfully to 217.

### Sample Trip Status by Month Collected

In addition to the 212 trips scheduled for December that were successfully collected in December, 1 carry over sample trip scheduled for FY-2014 was completed in December, resulting in 213 for the total number of trips successfully collected in December.

The specific wells, aquifer tubes, and springs sampled in the river corridor areas during December 2014 are listed in Table 1.

### Outstanding Sample Trips

Sample trips not collected by the end of the month scheduled are considered to be outstanding. This includes trips that are allowed to float past the end of the month scheduled without being considered late. Outstanding trips remain in the work schedule and take increasing priority the longer they persist on the list. Trips are considered late when they have persisted past the next target sample date for the respective location. Table 2 presents the sample trips for only the river corridor that were not successfully completed in December. Reasons for sample trips to be outstanding include but are not limited to issues such as well maintenance, weather conditions, access restrictions, and resource limitations.

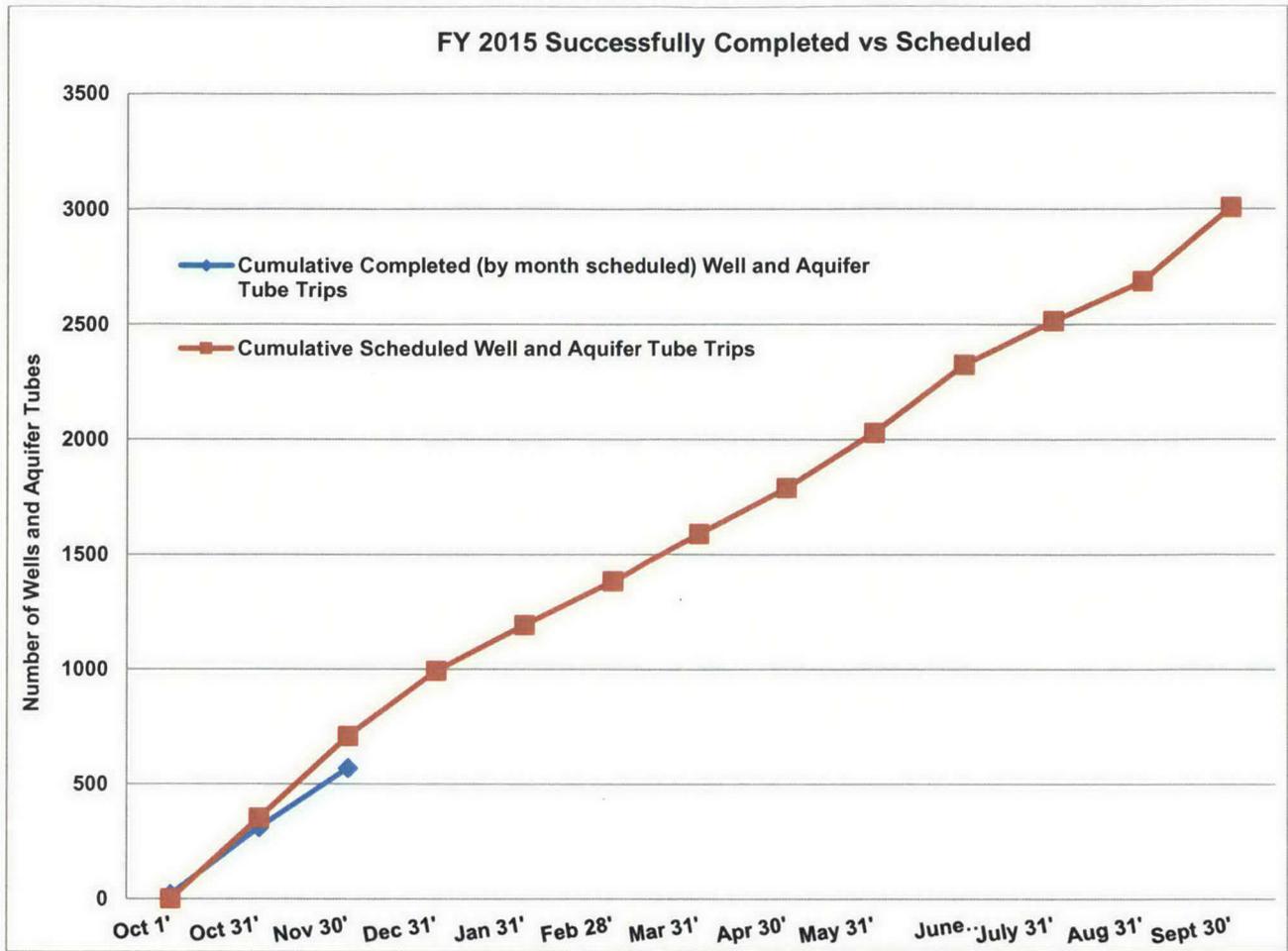
### Upcoming Sample Trips

Sample trips scheduled for collection in January 2015 and not collected before the target sample month are listed in Table 3.

### Data Access

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  
January 8, 2015



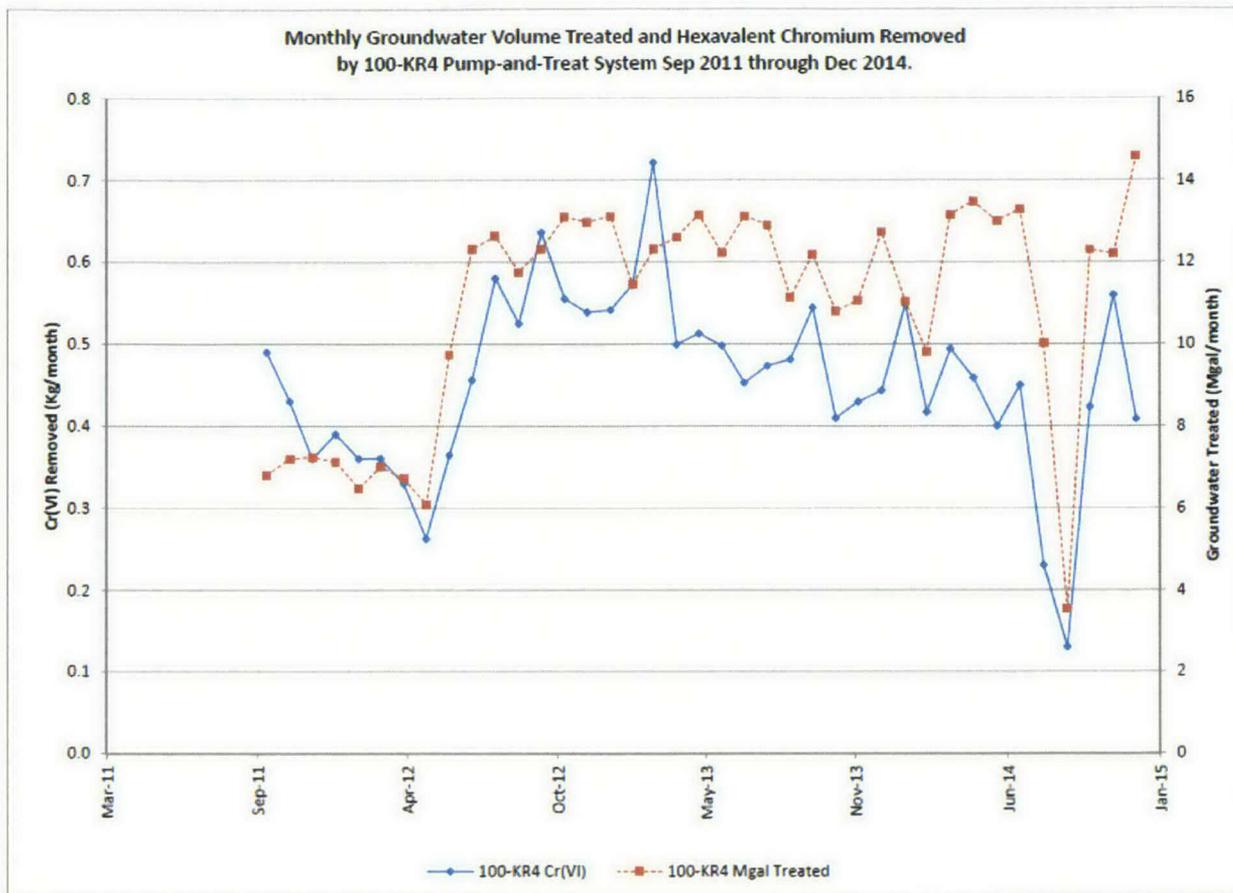
**100/300 Areas Unit Managers Meeting  
January 8, 2015**

***Operable Unit Specifics***

**100-KR-4 Groundwater Operable Unit – Ella Feist/Chuck Miller/Jason Hulstrom-**

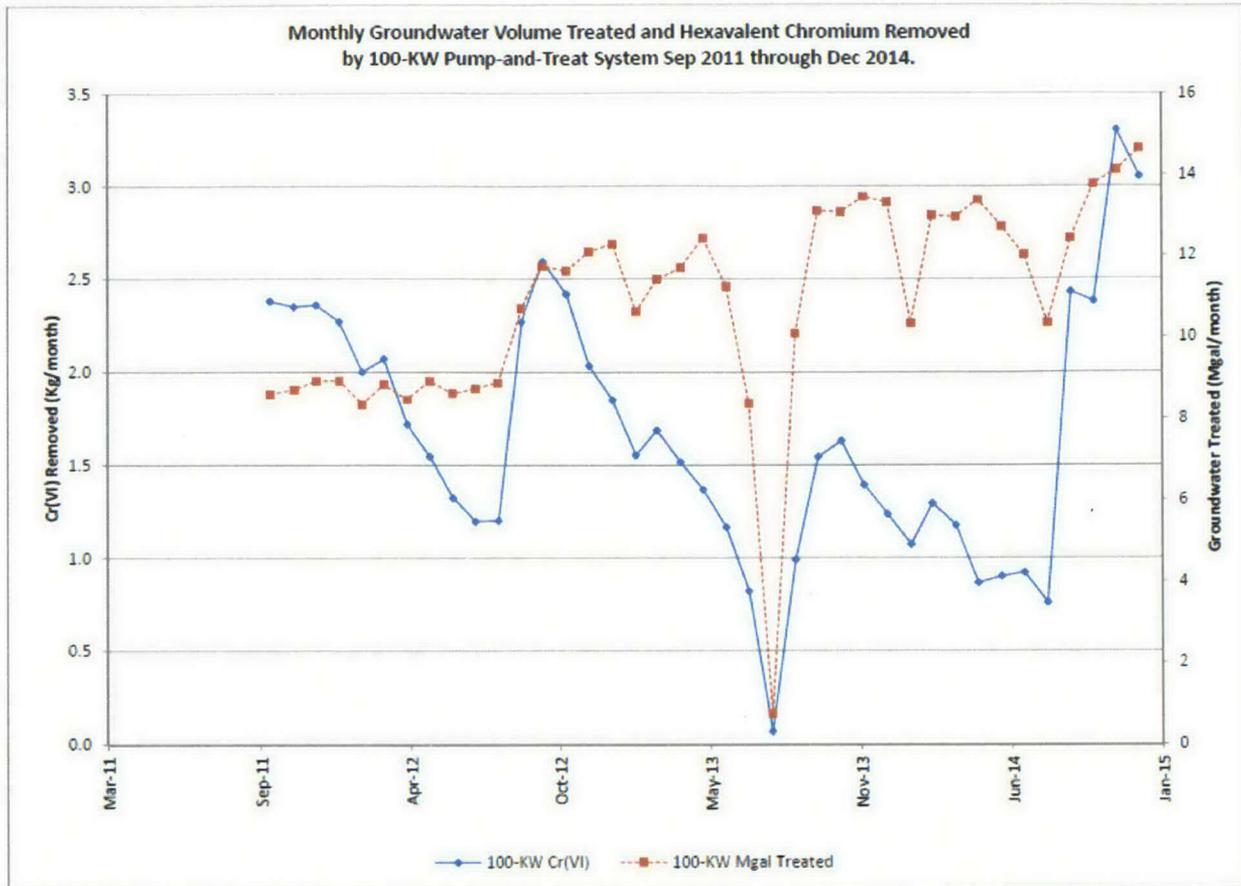
- CERCLA Process Implementation:
  - RI/FS and Proposed Plan: The documents are on hold pending 100-K East Reactor waste site characterization wells (116-KE-3 and UPR-100-K-1) and modeling. Planning/design is complete and construction of gravel drill pad adjacent to 105-KE Reactor Building was completed in December.
  - RD/RAWP, Monitoring Plan, and Operations and Maintenance Plan: CHPRC presented a briefing on the monitoring DQO to RL and EPA on November 3, 2014. Comments have been incorporated and the Draft A Monitoring Plan is scheduled to be delivered to RL by mid-January 2015. The Draft A Operations and Maintenance Plan and RD/RAWP were delivered to RL in December.
- Remedial Actions & System Modifications
  - Summaries of the volume of groundwater treated and Cr(VI) removed for each 100-K P&T systems (**KX**, **KR-4**, and **KW**) through December 2014 are shown in Figures K-1 through K-3. Current overall month performance is:
    - Treated 62.53 million gallons.
    - Removal 6.18 kg of hexavalent chromium.
  - The observed general decrease in the monthly mass of Cr(VI) removed over time is largely due to the overall reduction in Cr(VI) concentrations in the groundwater. Cr(VI) mass removal at 100-KW, however, increased substantially since bringing new extraction well 199-K-205 on-line. Similar increases are also seen at KR4 and KX due to the increased pumping rates to optimize remediation.
  - Construction of new well 199-K-203, located in a down gradient position relative to 116-KE-1 Gas Condensate Crib, is nearly complete and the well is planned to be developed in early January. This well, along with newly constructed 199-K-204, will provide carbon-14 extent information in the reactor areas.
  - Drilling at new well 199-K-207, which is located in the northern portion of the 118-K-1 Burial Ground, is complete and the well design is in preparation. Drilling at new well 199-K-208, located at the southern end of the 116-K-1 Trench, is expected to recommence in mid-January. 199-K-207 will monitor the conditions beneath the 118-K-1 Burial Ground. 199-K-208 will be completed in the known Cr(VI) plume near the K East Reactor and will become an extraction well in the 100-KX pump-and-treat system.
  - The original 2-inch ID conveyance line to extraction well 199-K-182 was successfully changed to a 3-inch-ID line; this allowed the pumping rate from this well to increase from 25 gpm to 40 gpm.

**100/300 Areas Unit Managers Meeting  
January 8, 2015**



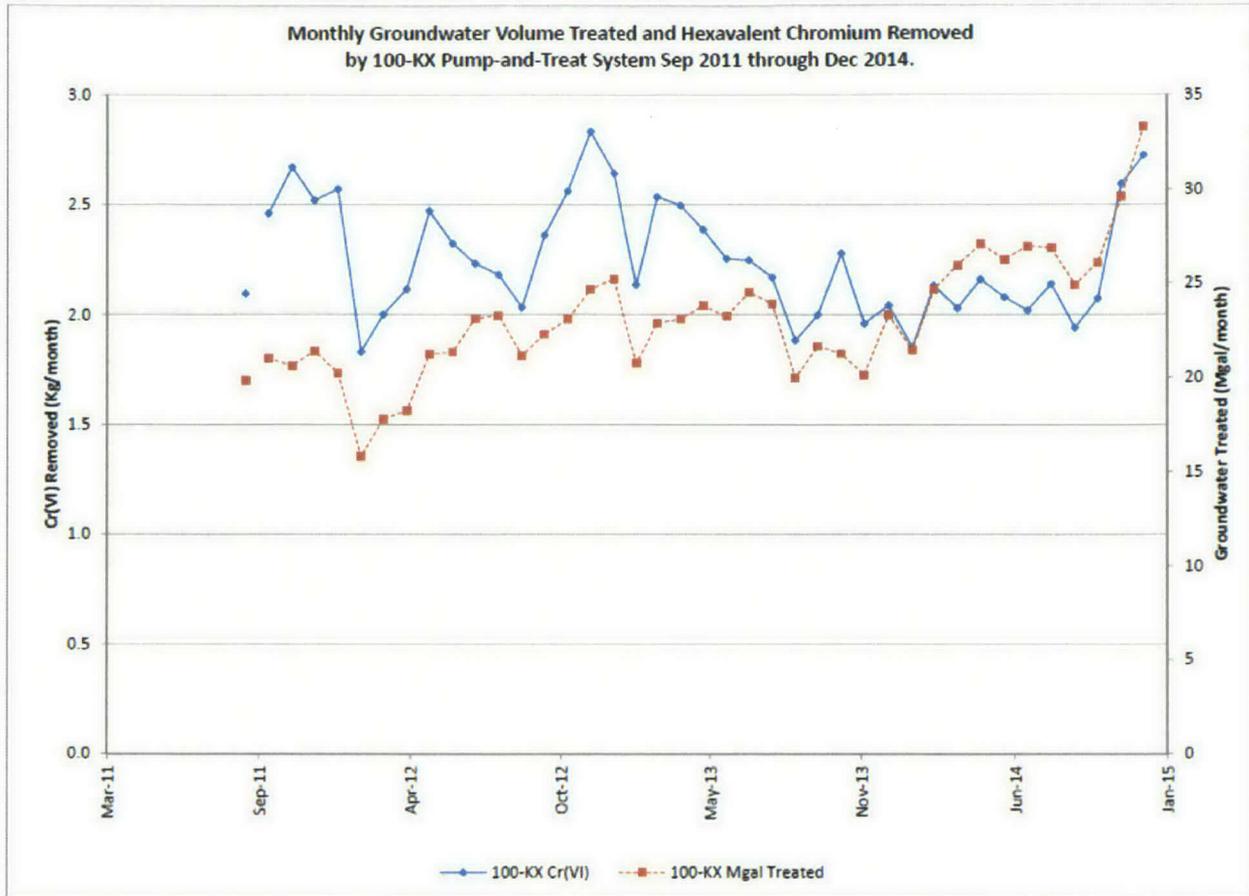
**Figure K-3. Monthly Cr(VI) removed and groundwater volume treated by 100-KR4 pump-and-treat, Sep 2011 through Dec 2014.**

**100/300 Areas Unit Managers Meeting  
January 8, 2015**



**Figure K-4. Monthly Cr(VI) removed and groundwater volume treated by 100-KW pump-and-treat, Sep 2011 through Dec 2014.**

**100/300 Areas Unit Managers Meeting  
January 8, 2015**



**Figure K-5. Monthly Cr(VI) removed and groundwater volume treated by 100-KX pump-and-treat, Sep 2011 through Dec 2014.**

**100/300 Areas Unit Managers Meeting  
January 8, 2015**

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

Milestone M-015-79: Due 12/15/2016 for the CERCLA RI/FS Report and Proposed Plan for the 100-BC-1, 100-BC-2 and 100-BC-5 Operable Units

- CERCLA Process Implementation:
  - Continued groundwater monitoring and hyporheic zone sampling.
- Monitoring & Reporting:
  - The HSPs were sampled as planned in December, including the 6 new, shallow HSPs (15 cm below the river bottom). In addition, seven samples of river water, collected approximately 15 cm off the bottom, were collected near HSPs. These extra samples will allow comparison of Cr(VI) concentrations in the shallow hyporheic zone to concentrations in the river itself. If Cr(VI) concentrations are low in the river samples, the river sampling will not be repeated. All of the Cr(VI) results were not available when this report was prepared and will be discussed next month.

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

- 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 Draft A RI/FS Report were received on October 2, 2013. Responses and redline changes have been prepared to the majority of Ecology's comments for Chapters 1 through 8 and we have started review/responding to informal comments on the "Hot Spots" position paper.
  - An additional 92 waste sites have been added to the RI/FS since WCH completed their waste site remediation scope. The risk screening and related analysis are underway and Chapter 6 has been revised and is under final review at this time.
- Remedial Actions – ***Bioventing and Product Recovery***
  - ***Bio-venting***- The bioventing system was transitioned from WCH to CHPRC on October 1, 2014 and shut-down for upgrades. The system was turned on to test the repairs and then stopped to prepare for respirometry testing. Gas samples were collected on December 3, 2014 with the system shut off, and then the system was then turned back on December 3, 2014.

Figure NR-1 provides a chart showing bio-vent well gas sample results for monitoring wells 199-N-171 and 199-N-169. O<sub>2</sub> and CO<sub>2</sub> measurements indicate continuation of the bioremediation process at 199-N-171, while the system was shut down. Well 199-N-169 did not indicate this same trend and has not done so over the past several months. The system then operated for 12 days to allow the vadose zone soils to re-oxygenate prior to start of respirometry testing.

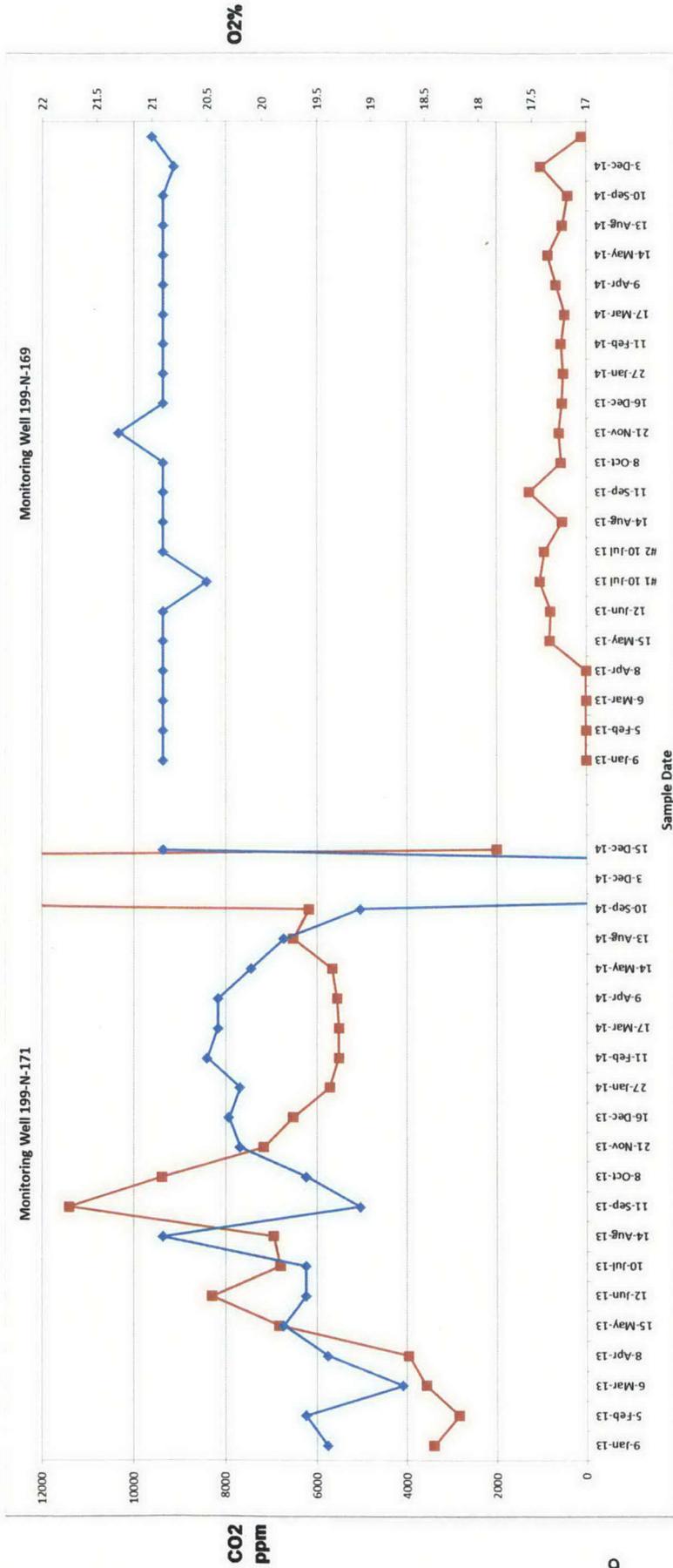
Gas samples were collected on December 15, 2014 indicating that oxygen concentrations had returned to pre-shutdown levels (Figure NR-1). The bioventing system was then shut-down for start of respirometry testing on December 15, 2014. During the respiration testing, soil gas samples are collected and analyzed for oxygen, carbon dioxide, methane, and total volatile hydrocarbons from six monitoring locations (Wells 199-N-167, 199-N-169, 199-N-171, 199-N-172, 199-N-183, and 199-N-18). The relationship between oxygen consumption and carbon dioxide production is used to estimate the rate of biodegradation. Oxygen utilization is the primary method for estimating the rate of hydrocarbon degradation in the soil.

**100/300 Areas Unit Managers Meeting  
January 8, 2015**

Gas samples from the first week of sampling indicate similar response at the respirometry test monitoring wells observed during last years' (January 2014) testing. Results from the first week of gas measurements indicate higher oxygen utilization rates at wells 199-N-169 and 199-N-171 than the other respirometry test monitoring wells as indicated by the declining trend observed in the measured oxygen concentration at N-169 and N-171 compared to the other wells. The data is being assessed to determine if observed increasing oxygen concentrations is contributed to instrument drift (temperature and pressure effects) or other contributing factors. Figure NR-2 through NR-7 plot the oxygen concentration for the six respirometry test monitoring wells.

- Product Recovery- during CY 2014, the “smart sponge” in well 199-N-18 was sampled in February, April, June, August, and October, 2014. The next sampling is scheduled for the first week of January 2015.

As of October 2014, a total of 2,250 g of TPH was removed from groundwater using the sponge(s). Assuming that the TPH is diesel with a density of 0.85 g/mL, 2.6 L of diesel was removed.



**BIOVENT WELL SAMPLE RESULTS**

Well #	Date	O2%	CO2 ppm	Well #	Date	O2%	CO2 ppm
199-N-171	9-Jan-13	19.4	3400	199-N-169	9-Jan-13	20.9	0
	5-Feb-13	19.6	2940		5-Feb-13	20.9	0
	6-Mar-13	18.7	3570		6-Mar-13	20.9	0
	8-Apr-13	19.4	3860		8-Apr-13	20.9	0
	15-May-13	19.8	6820		15-May-13	20.9	800
	12-Jun-13	19.6	8290		12-Jun-13	20.9	760
	10-Jul-13	19.6	6800		#1 10-Jul-13	20.5	1020
	14-Aug-13	20.9	6940		#2 10-Jul-13	20.9	920
	11-Sep-13	19.1	11400		14-Aug-13	20.9	530
	8-Oct-13	19.6	9380		11-Sep-13	20.9	1250
	21-Nov-13	20.2	7160		8-Oct-13	20.9	550
	16-Dec-13	20.3	6520		21-Nov-13	21.3	600
	27-Jan-14	20.2	5720		16-Dec-13	20.9	530
	11-Feb-14	20.5	5520		27-Jan-14	20.9	500
	17-Mar-14	20.4	5520		11-Feb-14	20.9	550
	9-Apr-14	20.4	5660		17-Mar-14	20.9	470
	14-May-14	20.1	5670		9-Apr-14	20.9	660
	20-Aug-14	19.8	6520		14-May-14	20.9	840
	10-Sep-14	19.1	6180		20-Aug-14	20.9	520
	3-Dec-14	7.3	69000		10-Sep-14	20.9	410
	15-Dec-14	20.9	2000		3-Dec-14	20.8	1000
					15-Dec-14	21	100

\* Results were measured from gas samples with system shutdown for 2 months

Figure N-1. Bioventing Well 199-N-169 and 199-N-171 Monthly Sampling Results

Date	Time	Elapsed Time		199-N-167	
		(hours)	Power off	Oxygen %	Oxygen %
12/15/2014	9:15	0:07		21	
12/15/2014	10:20	1:08		21.2	
12/15/2014	11:12	1:56		21.3	
12/15/2014	13:18	4:00		21.4	
12/15/2014	15:21	6:10		21.3	
12/15/2014	17:15	8:00		21.4	
12/15/2014	19:18	10:05		21.5	
12/16/2014	8:57	23:70		21	
12/16/2014	20:10	34:22		20.3	
12/17/2014	8:48	47:57		20.5	
12/18/2014	9:00	71:78		21.1	
12/19/2014	8:57	95:70		21.5	
12/20/2014	9:26	120:18		21.5	
12/21/2014	8:56	143:67		21.5	
12/22/2014	8:53	167:63		21.9	

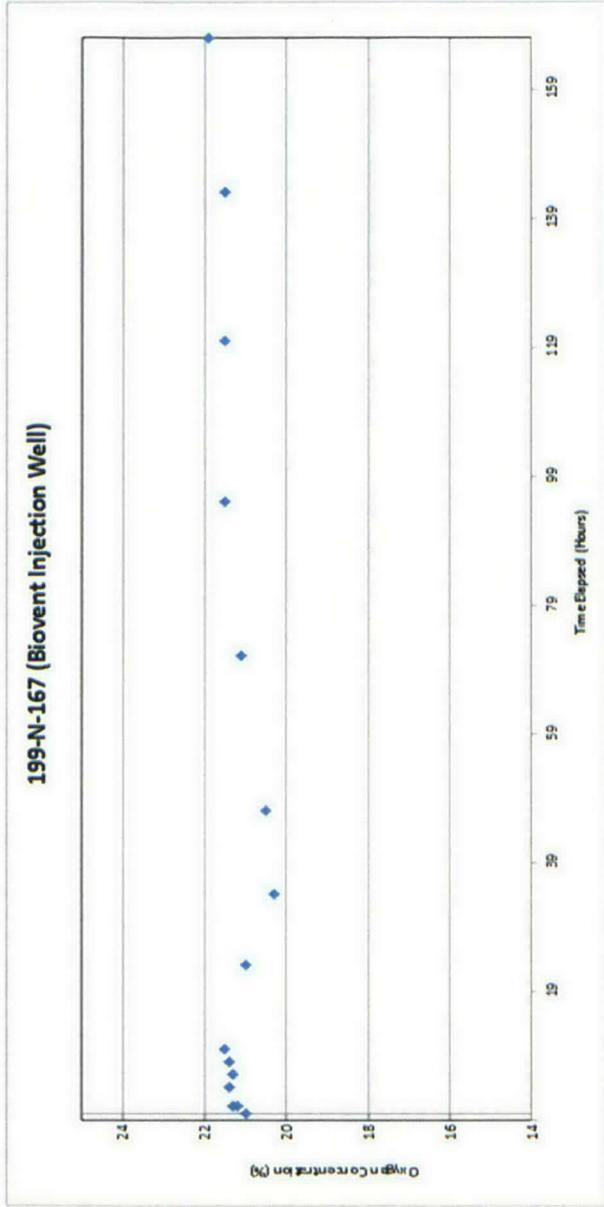


Figure N-2. Respirometry Testing Gas Sample Measurements at Well 199-N-167

Date	Time	Elapsed Time		199-N-169	
		(hours)	Power off	Oxygen %	Oxygen %
12/15/2014	9:15	0:07		21	
12/15/2014	9:10	0:05		21.1	
12/15/2014	10:15	1:00		21.2	
12/15/2014	11:07	1:57		21.2	
12/15/2014	13:08	3:58		21.3	
12/15/2014	15:16	6:02		21.2	
12/15/2014	17:15	8:00		21.2	
12/15/2014	19:12	9:56		21.3	
12/16/2014	8:51	23:60		20.9	
12/16/2014	20:15	35:00		20.1	
12/17/2014	8:55	47:67		20.1	
12/18/2014	9:07	71:87		20.6	
12/19/2014	9:03	95:80		20.6	
12/20/2014	9:19	120:07		20.1	
12/21/2014	9:01	143:77		20.3	
12/22/2014	8:59	167:73		20.7	

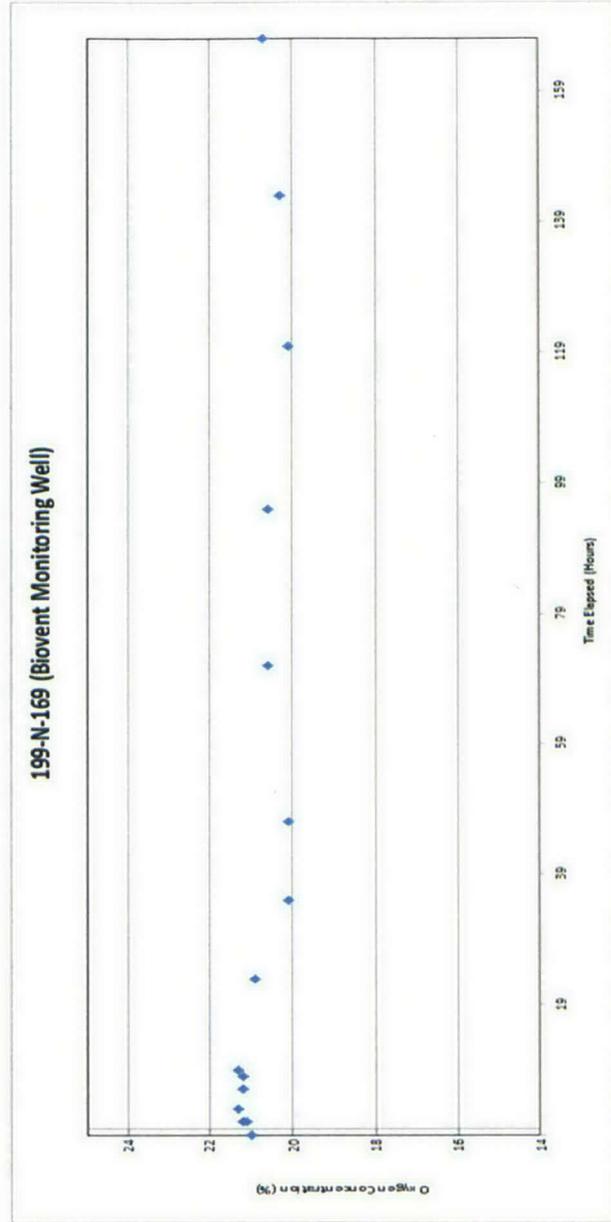


Figure N-3. Respirometry Testing Gas Sample Measurements at Well 199-N-169

Date	Time	Elapsed Time (hours)	199-N-171 Oxygen %
12/15/2014	9:15	Downtime	20.9
12/15/2014	9:39	0:20	19.8
12/15/2014	9:38	0:38	19.8
12/15/2014	10:38	1:38	19.8
12/15/2014	12:38	3:38	19.8
12/15/2014	14:39	5:40	19.8
12/15/2014	16:38	7:38	19.5
12/15/2014	18:38	9:38	19.5
12/16/2014	8:12	22:55	20.1
12/16/2014	19:07	33:57	18.7
12/17/2014	7:44	48:48	18.4
12/18/2014	7:44	70:48	18.8
12/19/2014	7:52	94:52	18.7
12/20/2014	8:13	118:57	17.5
12/21/2014	7:50	142:58	18.5
12/22/2014	7:48	167:56	18.5

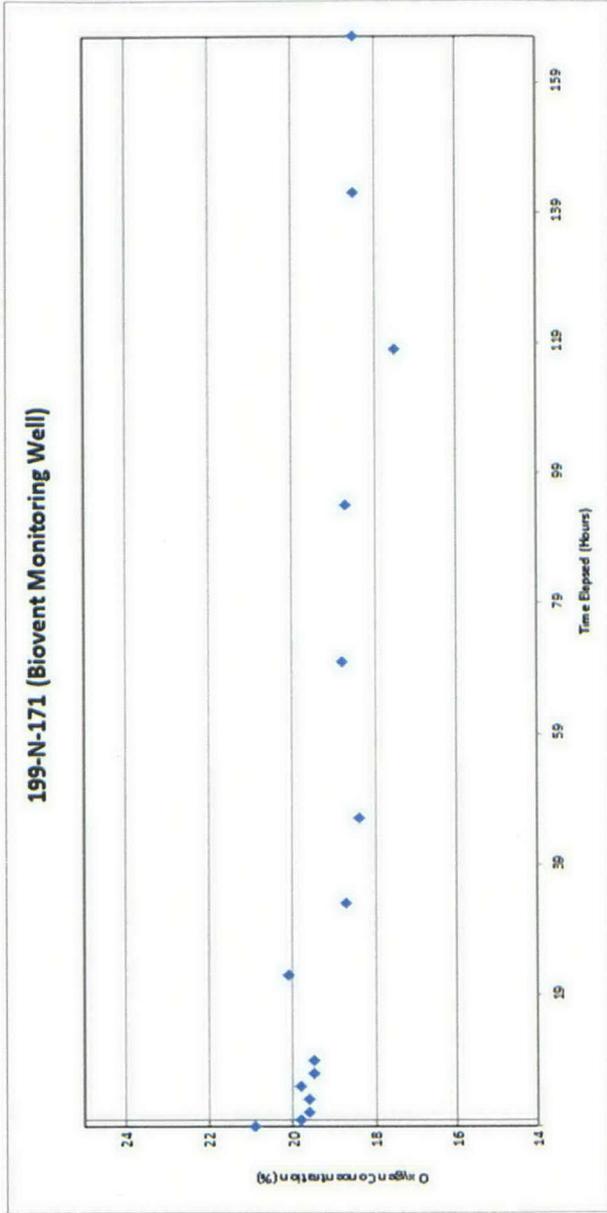


Figure N-4. Respirometry Testing Gas Sample Measurements at Well 199-N-171

Date	Time	Elapsed Time (hours)	199-N-172 Oxygen %
12/15/2014	9:15	Downtime	20.6
12/15/2014	9:25	0:17	20.8
12/15/2014	10:05	0:53	20.7
12/15/2014	11:00	1:49	20.7
12/15/2014	13:00	3:49	20.6
12/15/2014	15:11	5:58	20.7
12/15/2014	17:10	7:58	20.6
12/16/2014	8:43	23:47	21.2
12/16/2014	19:28	34:22	20.2
12/17/2014	8:37	47:37	20.5
12/18/2014	8:49	71:57	21
12/19/2014	8:43	95:47	21.2
12/20/2014	9:07	119:57	21.3
12/21/2014	8:43	143:47	21.3
12/22/2014	8:42	167:45	21.9

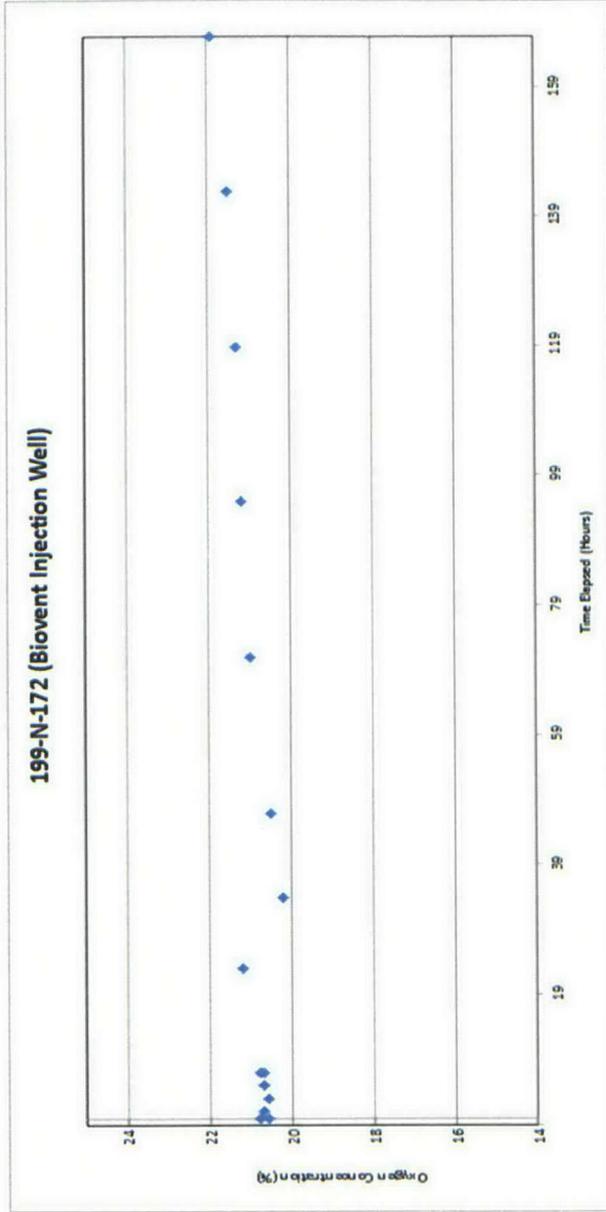


Figure N-5. Respirometry Testing Gas Sample Measurements at Well 199-N-172

Date	Time	Elapsed Time (hours)	blower off	199-N-183 Oxygen %
12/15/2014	9:15			--
12/15/2014	8:49		-0:43	20.8
12/15/2014	9:46		0:52	20.8
12/15/2014	10:46		1:52	20.7
12/15/2014	12:48		3:52	20.6
12/15/2014	14:55		5:57	20.7
12/15/2014	16:53		7:53	20.6
12/15/2014	18:53		9:53	20.7
12/16/2014	8:15		23:00	20.6
12/16/2014	19:59		34:19	20.2
12/17/2014	8:17		47:03	20.1
12/18/2014	8:27		71:20	20.9
12/19/2014	8:23		95:13	21
12/20/2014	8:46		119:52	21.4
12/21/2014	8:22		143:12	21.3
12/22/2014	8:34		167:32	22

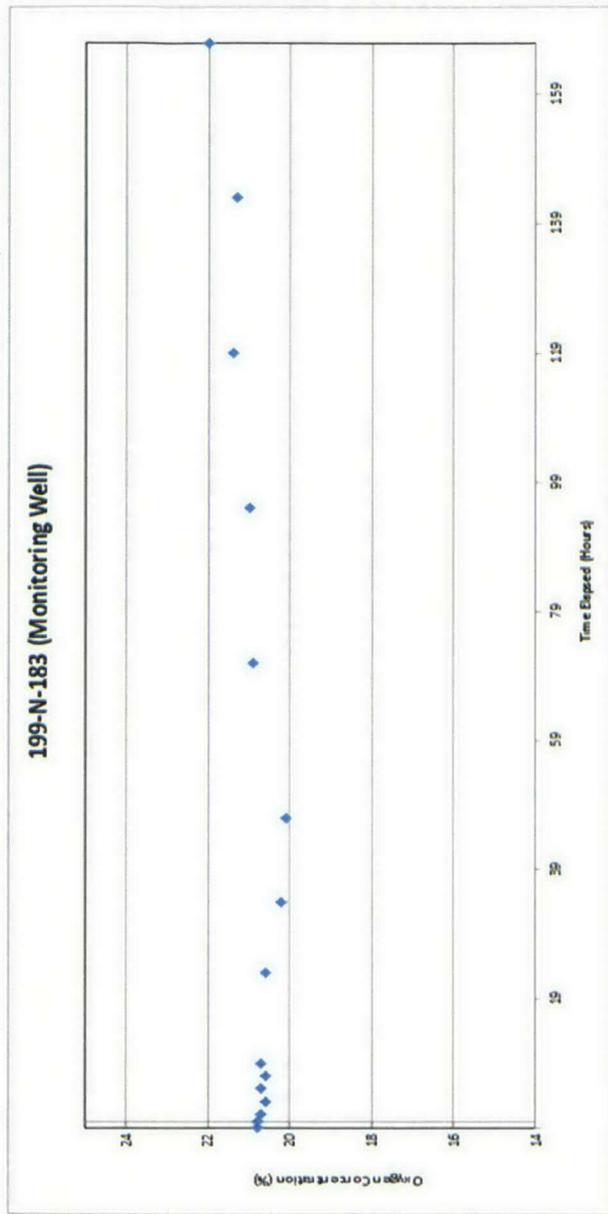


Figure N-6. Respirometry Testing Gas Sample Measurements at Well 199-N-183

Date	Time	Elapsed Time (hours)	blower off	199-N-18 Oxygen %
12/15/2014	9:15			--
12/15/2014	8:53		-0:28	20.7
12/15/2014	9:59		0:73	20.6
12/15/2014	10:56		1:67	20.6
12/15/2014	12:55		3:67	20.6
12/15/2014	15:06		5:56	20.6
12/15/2014	17:04		7:52	20.7
12/15/2014	19:02		9:78	20.5
12/16/2014	8:35		22:38	21.1
12/16/2014	19:59		34:73	20.1
12/17/2014	8:17		47:03	20.3
12/18/2014	8:41		71:43	21
12/19/2014	8:37		95:37	21.3
12/20/2014	9:00		119:75	21.3
12/21/2014	8:36		143:35	21.2
12/22/2014	8:33		168:50	21.4

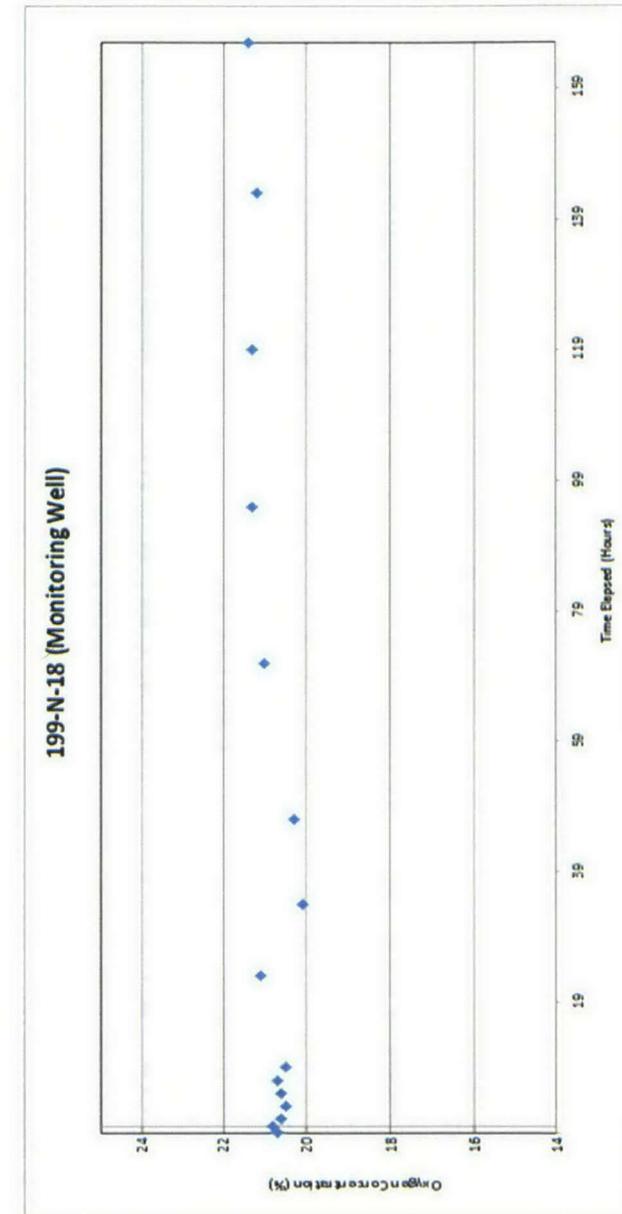
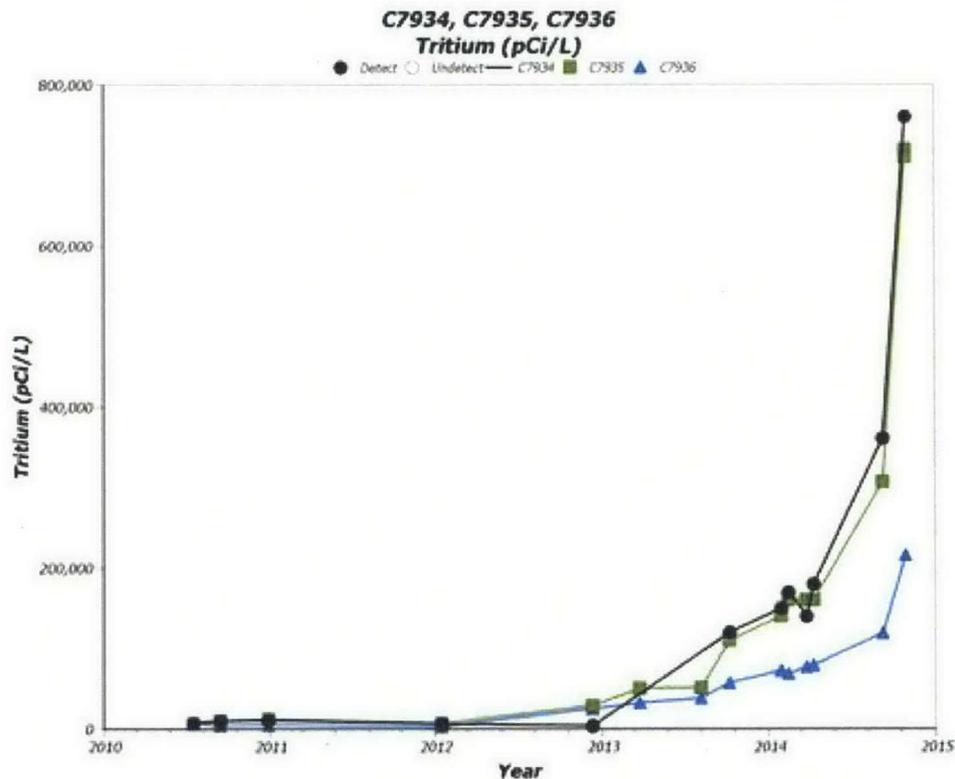


Figure N-7. Respirometry Testing Gas Sample Measurements at Well 199-N-18

**100/300 Areas Unit Managers Meeting  
January 8, 2015**

○ Monitoring & Reporting:

- Aquifer tubes C7934, C7935, and C7936 were sampled on December 11. Results are not yet available. The next sampling event is scheduled for January. Tritium and strontium-90 concentration trends through October 2014 are shown in Figure NR-8 and Figure NR-9.
- The next semi-annual sampling event for 100-NR-2 groundwater wells is scheduled for March 2015.
- The next groundwater sampling event for the bioventing wells is scheduled for mid-January 2015.
- The three quarterly RI groundwater monitoring wells (199-N-186, 199-N-187, 199-N-188) were sampled on November 12-13, 2014. The next quarterly groundwater sampling event is scheduled for March 2015. This sampling is the subject of the two most recent Change Notices for these wells: TPA-CN-632 to end the quarterly sampling required by the RI SAP (DOE/RL-2009-42); and TPA-CN-644 to revise the analyte list required by the RD/RAWP SAP (DOE/RL-2001-27, Rev. 1).
- The next sampling event for the apatite barrier wells is scheduled for June 2015.
- The next sampling event for RCRA monitoring wells is scheduled for March 2015.



**Figure NR-8. Tritium trends through October 2014 at Aquifer Tubes C7934, C7935, C7936.**

100/300 Areas Unit Managers Meeting  
January 8, 2015

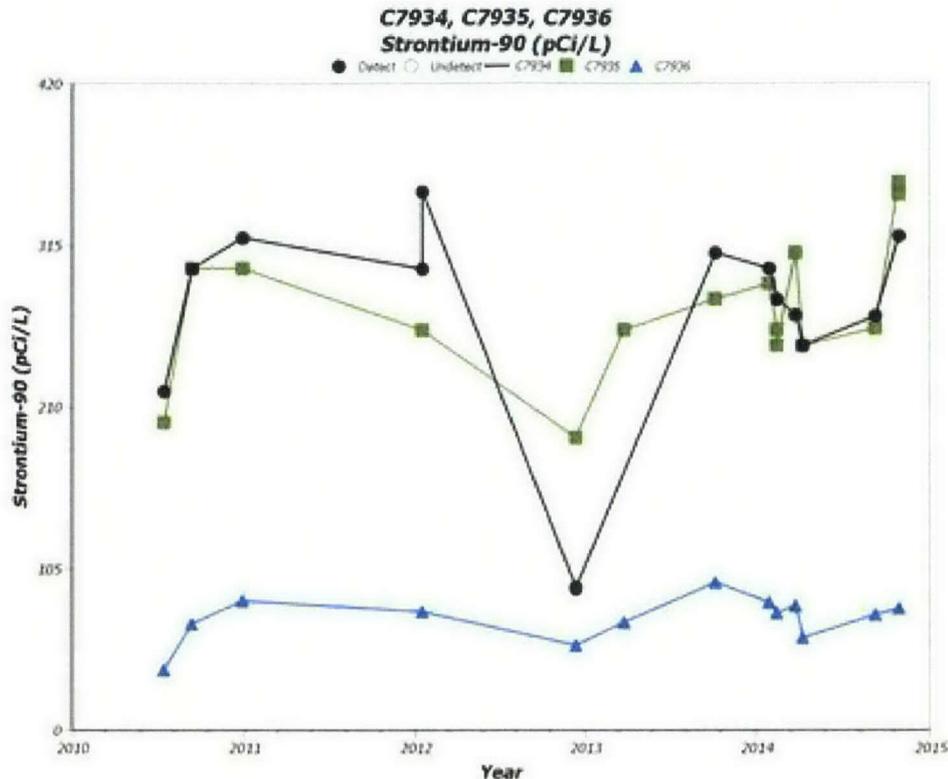


Figure NR-9. Strontium-90 trends through October 2014 at Aquifer Tubes C7934, C7935, C7936.

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

- CERCLA Process Implementation:
  - RI/FS: Final Rev. 0 was transmitted to Ecology on October 17, 2014
  - PP: The draft Rev. 0 was provided to Ecology on June 25, 2014 for legal review. The National Remedy Review Board is scheduled for January 26 to 30, 2015.
  - RD/RAWP, Monitoring Plan, and O&M Plan. Draft A Monitoring Plan was transmitted to RL on September 30, 2014. Informal Ecology comments on the Draft A Monitoring Plan were incorporated and the Draft B Monitoring Plan, Draft A RD/RAWP and Draft A O&M Plan were submitted to Ecology for formal review on December 4, 2014.
- Remedial Actions & System Modifications:
  - December 2014 performance for **DX** and **HX** systems:
    - Treated: 51.6 million gallons
    - Removed: 9.9 kg of Cr(VI).
  - Removal of additional material from below the water table at 100-D-100 is in progress. The removal of contaminated sediment from the aquifer and the periodically rewetted zone will reduce the amount of Cr(VI) mass available for dissolution into the groundwater and is anticipated to accelerate the groundwater cleanup in that area. A full report detailing the sampling at the waste site, drilling, groundwater monitoring, leach testing and evaluation of the data is scheduled to be completed in January.
  - Summaries of the volume of groundwater treated and Cr(VI) removed for the 100-DX and 100-HX pump-and-treat systems are shown in Figures H-1 and H-2, respectively.

## 100/300 Areas Unit Managers Meeting January 8, 2015

Both systems exhibit general reduction in Cr(VI) mass removal over time, which is a function of progress of remediation with associated reduction in groundwater contaminant concentration. Planned system modifications are moving forward.

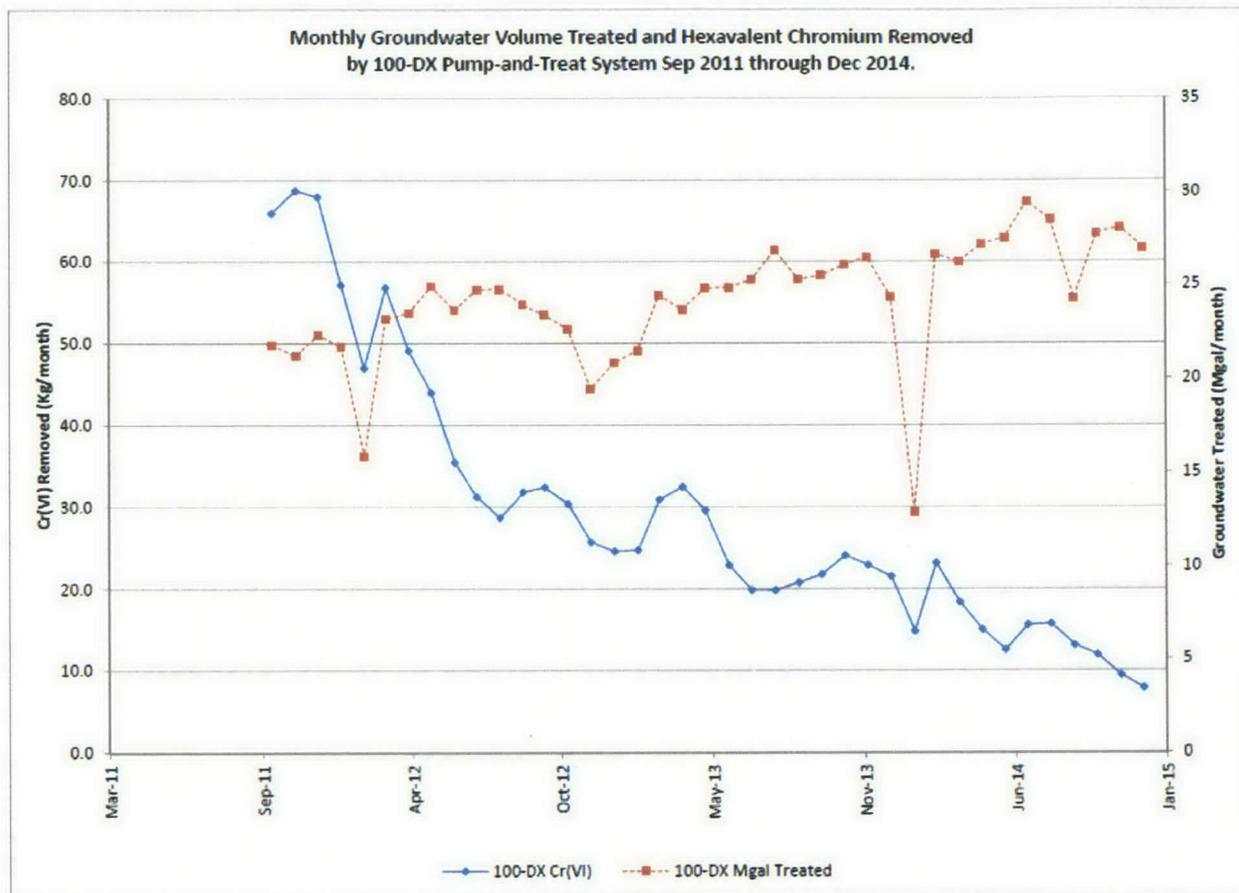


Figure H-1. Monthly Cr(VI) removed and groundwater volume treated by 100-DX pump-and-treat, Sep 2011 through Dec 2014.

100/300 Areas Unit Managers Meeting  
January 8, 2015

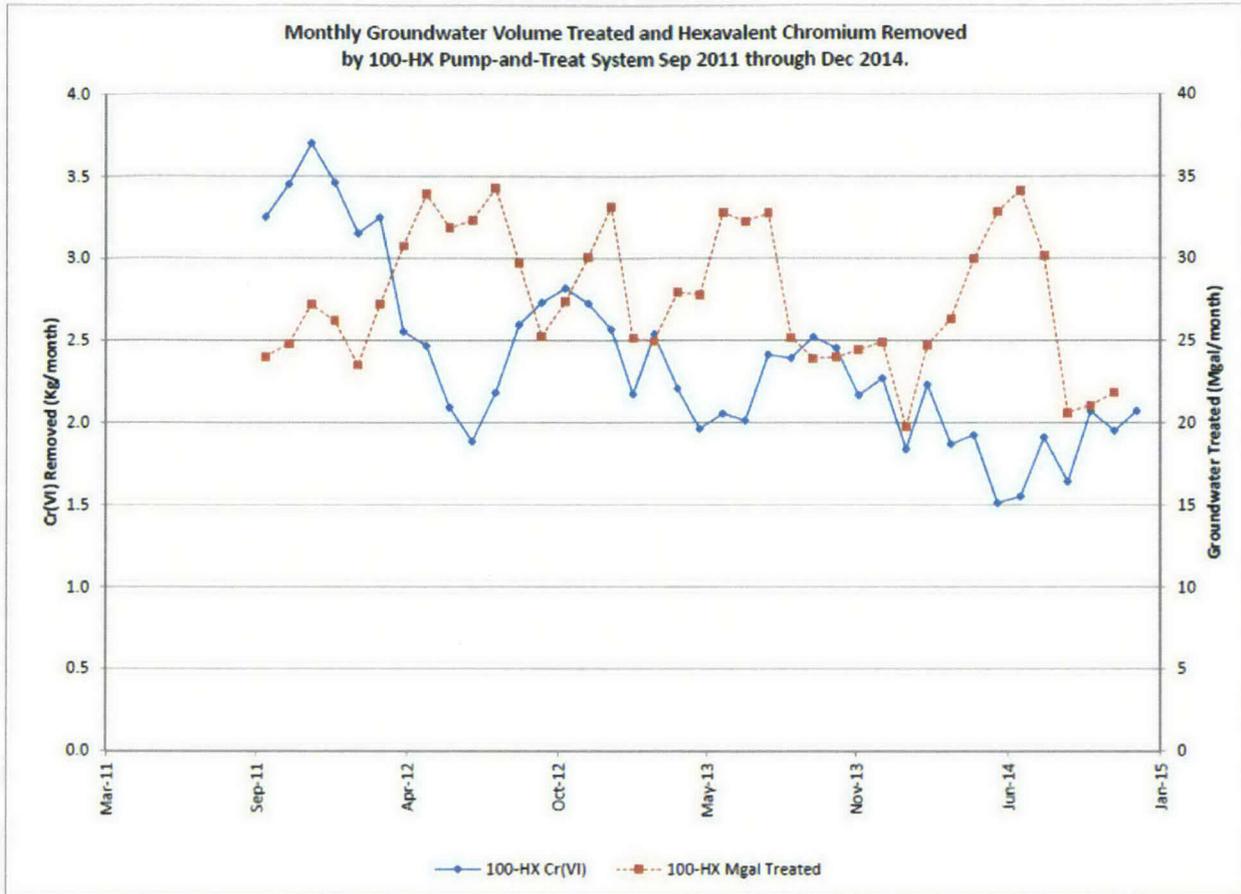


Figure H-2. Monthly Cr(VI) removed and groundwater volume treated by 100-HX pump-and-treat, Sep 2011 through Dec 2014.

**100/300 Areas Unit Managers Meeting  
January 8, 2015**

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

- CERCLA Process Implementation:
  - RD/RA Work Plan Decisional Draft was delivered to RL for review on December 9, 2014. The document is on schedule for delivery of the Draft A Work Plan on March 30, 2015.
- Monitoring & Reporting:
  - Eleven of the thirteen aquifer tubes scheduled for December were sampled. The two aquifer tubes not sampled were 72-M, which is not accessible and subsequently cancelled, and 77-D, which has been damaged by animals. Possible repairs are being evaluated with RL.

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

- CERCLA Process Implementation:
  - Received RLs signature on the Rev. 0 RDR/RAWP (DOE/RL-2014-13) integrated and groundwater addendum; awaiting EPAs signature
  - Conducted a 300 Area Remedy Implementation SAP DQO workshop with EPA on December 1, 2014; updating draft DQO for CHPRC, RL, SAP Panel, and EPA review in support of January workshop(s).
- Remedial Actions
  - Commenced 300 Area post-ROD field investigation drilling on December 30, 2014. Drilling and sampling is progressing as expected.
- Monitoring & Reporting:
  - 300 Area Industrial Complex: Samples have been collected from all 47 wells scheduled for December (46 in December, 1 in early January). The next sampling event is scheduled for March 2015.
  - 340 Vault Area: All seven wells were sampled in December, as scheduled. These seven wells were sampled quarterly during CY2014, in accordance with TPA-CN-611. It is proposed that we stop sampling at these wells or other wells to monitor potential impacts from remediation of the 340 Vault. Based on results available for samples collected in March, June, and September, Cs-137 was not detected at well 399-3-12 (only well required to be monitored for Cs-137); phosphate was not detected at 5 wells (maximum concentration detected was estimated at 260 µg/L); Sr-90 was not detected at 5 wells (maximum concentration detected was 1.9 pCi/L); and uranium was detected at 7 wells (maximum concentration was 98 µg/L).
  - 618-10 Burial Ground/316-4 Crib: Samples were collected on December 5 from all 6 wells scheduled for December sampling. The next sampling event is scheduled for March 2015.
  - 618-11 Burial Ground: The next sampling event is scheduled for January 2015.
  - 300 Area Process Trenches (316-5) RCRA Monitoring: All 8 wells were sampled in December as scheduled. The next sampling event is scheduled for January 2015.

**100/300 Areas Unit Managers Meeting  
January 8, 2015**

**Hanford Sampling Program Information-**

**Table 1. Wells, Aquifer Tubes and Springs in the River Corridor Successfully Sampled, December 2014**

<b>100-BC-3</b>	<b>100-FR-3</b>	<b>100-HR-3-D</b>	<b>100-HR-3-H</b>	<b>100-KR-4</b>	<b>100-NR-2</b>	<b>100-EM-1</b>	<b>300-FF-5</b>
199-B4-14	62-M	199-D3-2	199-H1-1	18-S	C6132	699-S27-E9A	399-1-1
699-68-105	64-M	199-D4-1	199-H1-2	199-K-124A	C6323	699-S28-E12	399-1-10A
C8840	67-M	199-D4-14	199-H1-25	199-K-144	C7881	699-S29-E16A	399-1-10B
C8841	74-D	199-D4-22	199-H1-27	199-K-178	C7934	699-S30-E15A	399-1-11
C8842	75-D	199-D4-23	199-H1-32	199-K-181	C7934	699-S31-E10A	399-1-12
C8843	76-D	199-D4-25	199-H1-33	199-K-193	C7935	699-S31-E8A	399-1-15
C8844	C6302	199-D4-27	199-H1-34	199-K-200	C7935	699-S36-E13A	399-1-16A
C8845	C6303	199-D4-31	199-H1-36	199-K-205	C7936	699-S37-E14	399-1-16B
C8847	C6306	199-D4-32	199-H1-42	199-K-220	C7936	699-S41-E12	399-1-17A
C8848	C6309	199-D4-36	199-H1-43		C7937	699-S42-E8A	399-1-17B
C8849	C6315	199-D4-38	199-H1-45		C7938		399-1-18B
C8851		199-D4-4	199-H1-6		C7939		399-1-2
C8853		199-D4-48	199-H3-2A		N116mArray-0A		399-1-21A
C8855		199-D4-6	199-H3-2C		N116mArray-10A		399-1-21B
C8856		199-D4-62	199-H4-10		N116mArray-11A		399-1-57
C8859		199-D4-7	199-H4-13		N116mArray-13A		399-1-59
C8860		199-D4-95	199-H4-4		N116mArray-15A		399-1-6
C8861		199-D5-103	199-H4-45		N116mArray-1A		399-1-7
C9441		199-D5-104	199-H4-5		N116mArray-2A		399-1-8
C9442		199-D5-106	199-H4-63		N116mArray-4A		399-2-1
C9443		199-D5-123	199-H4-64		N116mArray-6A		399-2-2
C9444		199-D5-125	199-H4-69		N116mArray-8A		399-2-32
C9445		199-D5-126	199-H4-70		N116mArray-9A		399-2-5
C9446		199-D5-145	199-H4-75		NVP1-2		399-3-1
		199-D5-146	199-H4-77		NVP1-3		399-3-10
		199-D5-15	199-H4-91		NVP1-4		399-3-12
		199-D5-16	52-D		NVP1-5		399-3-18
		199-D5-34	52-M		NVP2-115.1		399-3-19
		199-D5-38	52-S		NVP2-115.4		399-3-20
		199-D5-39	54-D		NVP2-115.7		399-3-22
		199-D5-41	54-M		NVP2-116.0		399-3-33

**100/300 Areas Unit Managers Meeting  
January 8, 2015**

100-BC-3	100-FR-3	100-HR-3-D	100-HR-3-H	100-KR-3	100-NR-2	1100-EM-1	300-FE-3
		199-D5-43	54-S		NVP2-116.3		399-3-34
		199-D5-97	699-97-41				399-3-38
		199-D8-5	C5681				399-3-6
		199-D8-53					399-3-9
		199-D8-54A					399-4-1
		199-D8-54B					399-4-10
		199-D8-68					399-4-12
		199-D8-69					399-4-14
		199-D8-70					399-4-15
		199-D8-88					399-4-7
		199-H1-5					399-4-9
		199-H4-80					399-5-4B
		199-H4-81					399-6-3
		199-H4-82					399-8-5A
		36-S					699-S19-E13
		38-D					699-S6-E4A
		38-M					699-S6-E4B
		699-96-52B					699-S6-E4D
		AT-D-1-D					699-S6-E4E
		AT-D-1-M					699-S6-E4K
		AT-D-1-S					699-S6-E4L
		AT-D-2-M					
		AT-D-2-S					
		AT-D-3-D					
		AT-D-3-M					
		AT-D-3-S					
		AT-D-4-D					
		AT-D-4-M					
		AT-D-4-S					
		AT-D-5-D					
		AT-D-5-M					
		C6266					
		C6267					
		C6268					
		C6269					

**100/300 Areas Unit Managers Meeting  
January 8, 2015**

100-BC-5	100-FR-3	100-HR-3-D	100-HR-3-H	100-KR-4	100-NR-2	1100-EM-1	300-FF-5
		C6270					
		C6271					
		C6272					
		C6275					
		C6278					
		C7645					
		C7646					
		C7647					
		C7648					
		DD-06-2					
		DD-06-3					
		DD-12-2					
		DD-12-4					
		DD-15-2					
		DD-15-3					
		DD-15-4					
		DD-16-3					
		DD-16-4					
		DD-17-2					
		DD-17-3					
		DD-41-1					
		DD-41-2					
		DD-41-3					
		DD-42-2					
		DD-42-3					
		DD-42-4					
		DD-43-2					
		DD-43-3					
		DD-44-3					
		DD-44-4					
		Redox-1-3.3					
		Redox-1-6.0					
		Redox-2-6.0					
		Redox-3-3.3					
		Redox-3-4.6					

**100/300 Areas Unit Managers Meeting  
January 8, 2015**

100-BC-5	100-FR-3	100-HR-3-D	100-HR-3-H	100-KR-4	100-NR-2	1100-EM-1	300-PF-5
		Redox-4-3.0					
		Redox-4-6.0					
		SD-110-1					
		SD-110-2					

**100/300 Areas Unit Managers Meeting  
January 8, 2015**

**Table 2. Sample Trips Outstanding at the end of December 2014**

<b>GWA</b>	<b>SAMP_SITE_TYPE</b>	<b>SITE_NAME</b>	<b>SCHEDULE DATE</b>	<b>Frequency</b>	<b>Status</b>	<b>Comment</b>
100-BC-5	AQUIFER TUBE	C8845	8/1/2014	Monthly	To be Canceled	Collected 10-9-2014
	AQUIFER TUBE	C8852	12/1/2014	Monthly	Unsuccessful	
	AQUIFER TUBE	C8860	5/1/2014	Monthly	To be Canceled	Decommissioned
100-FR-3	AQUIFER TUBE	77-D	10/1/2014	Annual		
100-HR-3-D	WELL	199-D5-107	10/1/2014	Annual		Maintenance Required
	WELL	199-D5-149	11/1/2014	Quarterly		Awaiting Drilling
	WELL	199-D5-20	10/1/2014	Quarterly	Late	Maintenance Required, P&T Well Not Running
	WELL	199-D8-72	9/1/2014	Quarterly	Late	
	WELL	199-D8-72	12/1/2014	Quarterly		
	WELL	199-D8-73	12/1/2014	Quarterly		
	AQUIFER TUBE	36-M	11/1/2014	Annual		
	AQUIFER TUBE	C6281	11/1/2014	Annual		
	AQUIFER TUBE	C6282	11/1/2014	Annual		
	AQUIFER TUBE	C6333	9/1/2014	Annual	Late	
100-HR-3-H	AQUIFER TUBE	DD-39-1	11/1/2014	Biannual		
	WELL	199-H1-3	12/1/2014	Quarterly		
	WELL	199-H1-39	12/1/2014	Quarterly		
	WELL	199-H1-4	12/1/2014	Quarterly		
	WELL	199-H4-76	12/1/2014	Quarterly		
	WELL	199-H4-90	12/1/2014	Quarterly		
	AQUIFER TUBE	50-M	11/1/2014	Annual		
	AQUIFER TUBE	50-S	11/1/2014	Annual		
	AQUIFER TUBE	AT-H-1-D	11/1/2014	Annual		
	AQUIFER TUBE	C6290	11/1/2014	Annual	Unsuccessful	
100-KR-4	AQUIFER TUBE	C7649	11/1/2014	Annual		
	AQUIFER TUBE	C7650	11/1/2014	Annual		
	WELL	199-K-112A	11/1/2014	Annual		Maintenance Required
	WELL	199-K-132	11/1/2014	Annual		
	WELL	199-K-201	11/1/2014	Quarterly		
	WELL	199-K-203	12/1/2014	Quarterly		Awaiting Drilling
	WELL	199-K-204	12/1/2014	Quarterly		Awaiting Drilling
	WELL	199-K-208	11/1/2014	Quarterly		Awaiting Drilling
100-NR-2	WELL	199-K-221	10/1/2014	Quarterly	Late	Awaiting Drilling, Not on WAL
	WELL	199-K-222	10/1/2014	Quarterly	Late	Awaiting Drilling, Not on WAL
	SPRING	SK-077-1	10/1/2014	Annual		
	WELL	199-K-150	12/1/2014	Monthly	Unsuccessful	
	WELL	199-N-167	10/1/2014	Annual		Access Restrictions
	WELL	199-N-169	10/1/2014	Quarterly	Late	Access Restrictions
100-NR-2	WELL	199-N-171	10/1/2014	Quarterly	Late	Access Restrictions
	WELL	199-N-172	10/1/2014	Annual		Access Restrictions
	WELL	199-N-173	10/1/2014	Quarterly	Late	Access Restrictions

**100/300 Areas Unit Managers Meeting  
January 8, 2015**

CWA	SAMP SITE TYPE	SITE NAME	SCHEDULE DATE	Frequency	Status	Comment
	WELL	199-N-183	10/1/2014	Quarterly	Late	Access Restrictions
	WELL	199-N-19	9/1/2014	Quarterly	Late	Access Restrictions
	WELL	199-N-19	10/1/2014	Quarterly	Late	Access Restrictions
	WELL	199-N-21	9/1/2014	Quarterly	Late	
	WELL	199-N-3	10/1/2014	Quarterly	Late	Access Restrictions
	WELL	199-N-56	10/1/2014	Quarterly	Late	Access Restrictions
	WELL	199-N-96A	10/1/2014	Quarterly	Late	Access Restrictions
	AQUIFER TUBE	C6132	10/1/2014	Quarterly	Late	
	AQUIFER TUBE	C6135	10/1/2014	Annual		
	AQUIFER TUBE	N116mArray-0A	10/1/2014	Quarterly	Late	
	AQUIFER TUBE	N116mArray-3A	12/1/2014	Quarterly		
	AQUIFER TUBE	N116mArray-8.5A	9/1/2014	Quarterly	Late	
	AQUIFER TUBE	N116mArray-8.5A	12/1/2014	Quarterly		
	AQUIFER TUBE	NVP1-1	9/1/2014	Quarterly	Late	
	AQUIFER TUBE	NVP1-1	12/1/2014	Quarterly		
	1100-EM-1	WELL	699-S31-E10C	12/1/2014	Annual	
AQUIFER TUBE		AT-3-8-M	12/1/2014	Annual		
AQUIFER TUBE		AT-3-8-S	12/1/2014	Annual		
300-FF-5	WELL	399-1-18A	12/1/2014	Monthly		
	WELL	399-1-63	12/1/2013	Annual	FY-2014 Carry over	Maintenance Required
	WELL	399-3-2	12/1/2014	Biannual		
	WELL	699-S6-E4B	12/1/2013	Biannual	To be Canceled	Sampled 9-8-2014
	AQUIFER TUBE	AT-3-1-D(1)	12/1/2014	Annual		
	AQUIFER TUBE	AT-3-1-M	12/1/2014	Annual		
	AQUIFER TUBE	AT-3-1-S	12/1/2014	Annual		
	AQUIFER TUBE	AT-3-2-M	12/1/2014	Annual		
	AQUIFER TUBE	AT-3-2-S	12/1/2014	Annual		
	AQUIFER TUBE	AT-3-3-D	12/1/2014	Annual		
	AQUIFER TUBE	AT-3-3-M	12/1/2014	Annual		
	AQUIFER TUBE	AT-3-3-S	12/1/2014	Annual		
	AQUIFER TUBE	AT-3-4-D	12/1/2014	Annual		
	AQUIFER TUBE	AT-3-4-M	12/1/2014	Annual		
	AQUIFER TUBE	AT-3-4-S	12/1/2014	Annual		
	AQUIFER TUBE	AT-3-5-S	12/1/2014	Annual		
	AQUIFER TUBE	AT-3-6-D	12/1/2014	Annual		
	AQUIFER TUBE	AT-3-6-M	12/1/2014	Annual		
	AQUIFER TUBE	AT-3-6-S	12/1/2014	Annual		
	AQUIFER TUBE	AT-3-7-D	12/1/2014	Annual		
AQUIFER TUBE	AT-3-7-M	12/1/2014	Annual			
AQUIFER TUBE	AT-3-7-S	12/1/2014	Annual			
AQUIFER TUBE	C6341	12/1/2014	Annual			
AQUIFER TUBE	C6342	12/1/2014	Annual			

**100/300 Areas Unit Managers Meeting  
January 8, 2015**

<b>GWIA</b>	<b>SAMP_SITE_TYPE</b>	<b>SITE_NAME</b>	<b>SCHEDULE DATE</b>	<b>Frequency</b>	<b>Status</b>	<b>Comment</b>
	AQUIFER TUBE	C6343	12/1/2014	Annual		
	AQUIFER TUBE	C6344	12/1/2014	Annual		
	AQUIFER TUBE	C6347	12/1/2014	Annual		
	AQUIFER TUBE	C6348	12/1/2014	Annual		
	AQUIFER TUBE	C6350	12/1/2014	Annual		
	AQUIFER TUBE	C6351	12/1/2014	Annual		
	AQUIFER TUBE	C6368	12/1/2014	Annual		
	AQUIFER TUBE	C6374	12/1/2014	Annual		
	AQUIFER TUBE	C6375	12/1/2014	Annual		
	AQUIFER TUBE	C6378	12/1/2014	Annual		
	AQUIFER TUBE	C6380	12/1/2014	Annual		

**100/300 Areas Unit Managers Meeting  
January 8, 2015**

**Table 3. Sample Locations in the River Corridor Scheduled to be sampled in January 2015**

100-BC-5	100-FR-3	100-HR-1-D	100-HR-3-H	100-KR-4	100-NR-2	100-EM-1	300-FE-9
199-B4-14		199-D4-19	199-H4-6	199-K-117A	199-K-150		399-1-10A
199-B4-16		199-D4-26	199-H4-84	199-K-166	C7934		399-1-10B
199-B4-18		199-D4-86	699-100-43B	199-K-173	C7935		399-1-16A
199-B4-7		199-D4-92	699-101-45	199-K-18	C7936		399-1-16B
199-B5-10		199-D4-93		199-K-20			399-1-17A
199-B5-11		199-D4-95		199-K-202			399-1-17B
199-B5-12		199-D4-96		199-K-205			399-1-18A
199-B5-13		199-D4-97		199-K-221			399-1-18B
199-B5-14		199-D4-98		199-K-222			699-10-E12
199-B5-6		199-D4-99		C7641			699-12-2C
199-B5-9		199-D5-101		C7642			699-13-2D
199-B8-9		199-D5-103		C7643			699-13-3A
C8840		199-D5-104					
C8841		199-D5-106					
C8842		199-D5-127					
C8843		199-D5-13					
C8844		199-D5-130					
C8845		199-D5-131					
C8847		199-D5-14					
C8848		199-D5-145					
C8849		199-D5-146					
C8851		199-D5-154					
C8852		199-D5-17					
C8853		199-D5-32					
C8855		199-D5-33					
C8856		199-D5-34					
C8859		199-D5-36					
C8860		199-D5-37					
C8861		199-D5-39					
C9441		199-D5-97					
C9442		199-D7-3					
C9443		199-D7-6					
C9444		199-D8-101					
C9445		199-D8-4					
C9446		199-D8-89					
		199-D8-90					
		199-D8-91					
		199-D8-95					
		199-D8-96					
		199-D8-97					

**100/300 Areas Unit Managers Meeting  
January 8, 2015**

100-BC-5	100-FR-3	100-HR-3-D	100-HR-3-H	100-KR-4	100-NR-2	1100-EM-1	300-FF-5
		199-D8-98					

# Attachment 2

**100K Area Report**  
**100/300 Area Unit Manager Meeting**  
**January 8, 2015**

**RL-0012 Sludge Treatment Project**

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

- Following EPA's disapproval of DOE's request to extend TPA milestone M-016-175, a statement of dispute was transmitted to EPA and the IAMIT on December 3, 2014. DOE and EPA have agreed to extend resolution of the dispute to January 8, 2015, at the IAMIT level.
- Procurement of ECRTS process components continues to move forward. Seven contracts out of a total of twenty have been issued and are in various stages of implementation. Procurement documents are being prepared for 13 additional contracts.
- 105-K West Basin Annex building construction work included fire coating touch-up, fabrication of fire system sprinkler piping, installation of metal wall framing and gypsum wall board between rooms, and installation of electrical and mechanical equipment.
- The 105-KW Basin contractor performing in-basin electrical work has been given notice to proceed and is expected to start in January 2015.
- DOE continues to review and provide comment on the ECRTS Preliminary Documented Safety Analysis (PDSA). Periodic meetings are being held between DOE and CHPRC to facilitate comment resolution. DOE approval of the PDSA is expected in mid-January, 2015.

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

- EPA disapproved a TPA change request submitted by RL on December 12, 2014 to extend the due date for M-016-173 from March 31, 2015 to September 30, 2015. RL initiated dispute resolution at the Project Manager level on January 5, 2015.

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

- Initiation of this milestone follows completion of Milestone M-016-176.
- Pre-deactivation activities to facilitate future deactivation continue. Such activities include below-water debris relocation to clear the ECRTS footprint; debris dose rate measurement and characterization; and, completion of the Integrated Water Treatment System garnet filter pre-conceptual design.
- The KW Basin below-water debris and demolition rubble Sample Analysis Plan has been prepared and is expected to be provided to EPA for review and approval in January 2015.

## **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. Two phase 3 buildings (MO293 and MO442) were removed in November to facilitate future work on waste sites near the KE Head House. No phase 2 waste sites have been remediated thus far in FY15.

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

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

## **Other Information and Status Updates**

105-KW Roof Improvements. The 105KW Roof work was suspended on 12/17/14 until spring. It was not cost effective to keep construction resources on site during the winter when temperature and humidity conditions necessary to apply coatings (too wet and cold) are unlikely to be met. Additionally, a fall protection question has been raised regarding the existing engineered walkway to access the 105KW roof. All roof access has been suspended until it can be resolved. Resolving the fall protection issue is moving forward with engineering and safety and will support roof improvement re-start activities in the spring.

100K Bore Holes. Field mobilization is in process with material placement for the drill pad and access ramps complete. The drilling contract award was completed in December. Enclosure construction has been delayed and is scheduled to start in January.

# Attachment 3

January 8, 2015 Unit Manager's Meeting  
Closure Operations Status

**100-B/C**

- Continued excavation and stockpiling of 100-B-35 plume
- Completed revegetation of Pit 24 and the majority of the Container Transfer Area

**100-D**

- Continued excavation and load-out of 100-D-100 Tier 4
- Planning for 100-D-86:3 plume chase
- Continued backfill at 100-D-30/104
- Commenced revegetation activities at former soil stockpile areas

**100-H**

- Planning for 100-H-28:2-5 plume chase

**100-N**

- Completed revegetation activities
- Commenced remediation of 100-N-96

**618-10 Trench Remediation**

- Continued excavation and sorting of trench area
- Concrete drum removal activities put on hold pending Safety Basis update
- Continued waste load out
- Continued non-concrete drum characterization & handling activities
- Continued cone penetrometer removal activities surrounding VPUs
- Continued preparations for VPU over-casing installation
- Continued preparations for VPU augering
- Initiated design and fabrication of suspect TRU waste retrieval system

**100-IU-2/6**

- Continued planning for detonating UXO discovered in 600-349 and 600-358.
- Continued remediation of 600-358

# Attachment 4







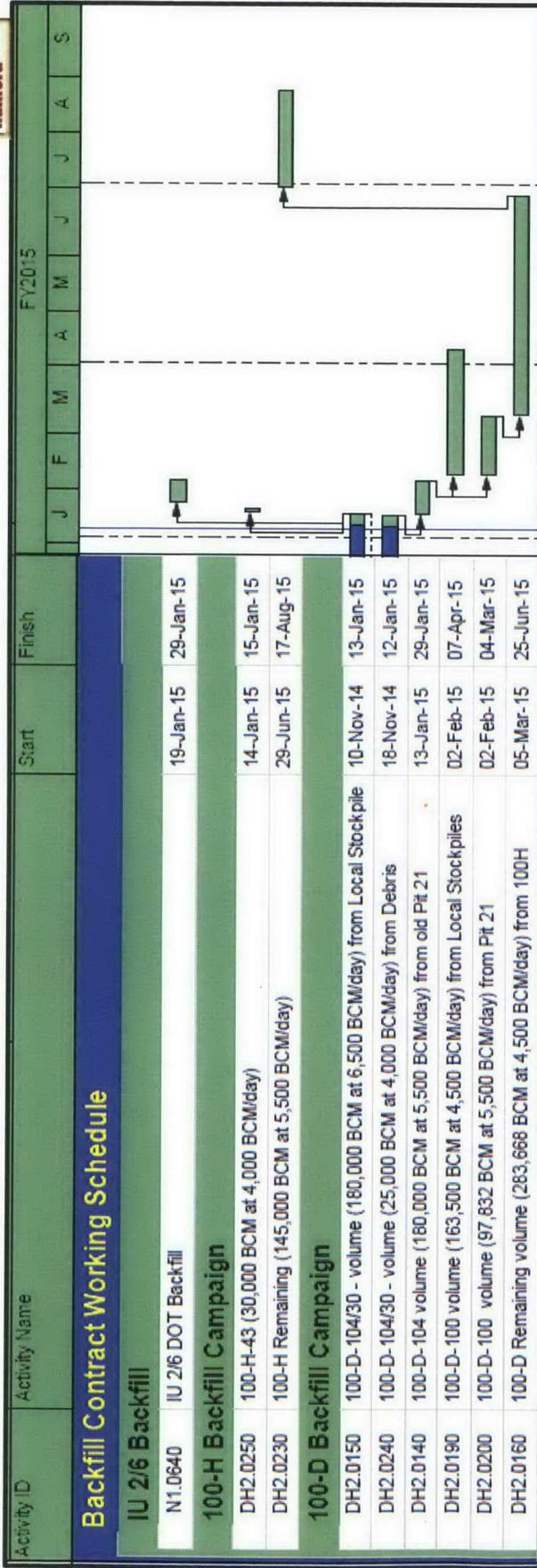




# Attachment 5



# Closure Operations Backfill



# Attachment 6

**^WCH Document Control**

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**From:** Saueressig, Daniel G  
**Sent:** Monday, December 15, 2014 7:44 AM  
**To:** ^WCH Document Control  
**Subject:** FW: NON-CONTINGUOUS ONSITE REQUEST

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

Thanks,

Dan Saueressig  
Environmental Project Lead  
Washington Closure Hanford  
521-5326

---

**From:** Guzzetti, Christopher [<mailto:Guzzetti.Christopher@epa.gov>]  
**Sent:** Monday, December 15, 2014 7:27 AM  
**To:** Saueressig, Daniel G  
**Cc:** Chance, Joanne C; Zeisloft, Jamie; Boyd, Alicia  
**Subject:** RE: NON-CONTINGUOUS ONSITE REQUEST

I concur.

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](mailto:guzzetti.christopher@epa.gov)

---

**From:** Saueressig, Daniel G [<mailto:daniel.saueressig@wch-rcc.com>]  
**Sent:** Thursday, December 11, 2014 1:10 PM  
**To:** Guzzetti, Christopher  
**Cc:** Chance, Joanne C; Zeisloft, Jamie; Boyd, Alicia  
**Subject:** NON-CONTINGUOUS ONSITE REQUEST

Chris, we found some pipe lagging that is suspect of being friable asbestos in the sideslope of 100-H-28:5 in an area that we are planning on performing some closure sampling in the vicinity. The material was most likely exposed over the past couple weeks of rain and wind. The area contains other subsurface debris (rebar, concrete) indicating the area probably has some building foundation/remaining substructure. We immediately sprayed fixative on the material and posted the area for asbestos controls. I'd like your concurrence for a non-contiguous onsite determination to place this material in an ERDF can at 100-D for disposal at ERDF. The material will be double bagged prior to placement in the

ERDF can and the area will be downposted from asbestos controls with a visual inspection from an asbestos competent person. I've discussed this with Ecology and they didn't have any concerns.

Let me know if you concur.

Thanks,

Dan Saueressig  
Environmental Project Lead  
Washington Closure Hanford  
521-5326

# Attachment 7

**^WCH Document Control**

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**From:** Saueressig, Daniel G  
**Sent:** Monday, December 15, 2014 6:13 AM  
**To:** ^WCH Document Control  
**Subject:** FW: RL Concurrence - BACKFILL AND REVEGETATION REQUEST FOR 600-332  
**Attachments:** Backfill request for 600-332.doc

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

Thanks,

Dan Saueressig  
Environmental Project Lead  
Washington Closure Hanford  
521-5326

---

**From:** Zeisloft, Jamie [<mailto:jamie.zeisloft@rl.doe.gov>]  
**Sent:** Friday, December 12, 2014 4:13 PM  
**To:** Guzzetti, Christopher; Saueressig, Daniel G  
**Subject:** RL Concurrence - BACKFILL AND REVEGETATION REQUEST FOR 600-332

I also concur.

---

**From:** Guzzetti, Christopher [<mailto:Guzzetti.Christopher@epa.gov>]  
**Sent:** Wednesday, December 10, 2014 4:11 PM  
**To:** Saueressig, Daniel G; Zeisloft, Jamie  
**Subject:** RE: BACKFILL AND REVEGETATION REQUEST FOR 600-332

I concur.

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](mailto:guzzetti.christopher@epa.gov)

---

**From:** Saueressig, Daniel G [<mailto:daniel.saueressig@wch-rcc.com>]  
**Sent:** Wednesday, December 10, 2014 3:59 PM  
**To:** Guzzetti, Christopher; Zeisloft, Jamie  
**Subject:** BACKFILL AND REVEGETATION REQUEST FOR 600-332

Chris/Jamie, I'd like to request your concurrence to backfill and revegetate the small location where 600-332 was thought to be. Based on previous walk downs and discussions there seemed to be agreement that taking a meter of soil in the location where the septic tank was thought to be and also taking an in process sample at the location would help to close this site. The attached summary was prepared to assist with approval to backfill and revegetated the site while the formal closure documents are routed for review and signature.

Let me know if you concur.

Thanks,

Dan Saueressig  
Environmental Project Lead  
Washington Closure Hanford  
521-5326

<< File: Backfill request for 600-332.doc >>

## BACKFILL CONCURRENCE REQUEST FOR 600-332

The 600-332 waste site supported the Gable Mountain Patrol Range House, Building 661, and was believed to contain a septic tank as well as potential piping and a drain field. During a geophysical investigation in March of 2010 there were no anomalous features detected that had characteristics typically associated with either a septic tank, drain field, or its associated piping. In addition, a 3 ft (1 m) excavation was completed on October 12, 2014 at the location where the septic tank was thought to exist prior to the geophysical investigation. During this time there were no anomalous materials, septic tank, or drain field encountered. As additional supporting information, an in-process composite sample was taken on October 12, 2014 from the floor of the excavation and showed no contamination above direct exposure cleanup levels (refer to Attachment 1). The in-process data showed a few pesticides that are above cleanup levels for groundwater and river protection. However, these have high enough  $K_d$ 's that they will not migrate to groundwater. Text will be added to the CVP discussing this.

Attachment 1 contains the analytical data,  $K_d$ 's for constituents that are above groundwater and river protection criteria are as follows;

### $K_d$

4-4'-DDE = 86.4 mL/g

4-4'-DDT = 678 mL/g

Chlordane (alpha, gamma) = 51 mL/g

Heptachlor = 9.53 mL/g

A conservative 8 meters of vadose is needed to show groundwater and river protection, which 600-332 meets.

Based on the lack of septic features at this site, the 600-332 waste site will be proposed as No Action under the residential land-use scenario in the 100-F/IU Area Final ROD and the RDR/RAWP; therefore backfill and revegetation of the site is requested while the Cleanup Verification Report and Waste Site Reclassification Form for this site is finalized.

**Attachment 1**

**600-332 Waste Site In-Process Sample**

Attachment I. 600-332 Waste Site In-Process Sample Results (Metals, Anion, and TPH)																		
Sample Location	HEIS Number	Sample Date	Aluminum		Antimony		Arsenic		Barium		Beryllium		Boron					
			mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	
EXC-COMP	JITXF8	8/12/14	6630		6.68	1.62	UD	1.62	3.47	0.491	80.8	0.0982	1.12	0.0982	1.34	UJB	0.982	
Sample Location	HEIS Number	Sample Date	Cadmium		Calcium		Chromium		Cobalt		Copper		Iron					
			mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	
EXC-COMP	JITXF8	8/12/14	0.357	B	0.0982	5490	7.85	10.2	0.147	11.6	0.147	13.7	0.295	22600	7.85			
Sample Location	HEIS Number	Sample Date	Lead		Magnesium		Manganese		Mercury		Molybdenum		Nickel					
			mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	
EXC-COMP	JITXF8	8/12/14	5.48		0.324	4810	8.35	370	0.196	0.00750	B	0.00402	0.213	B	0.196	11.2	0.147	
Sample Location	HEIS Number	Sample Date	Potassium		Selenium		Silicon		Silver		Sodium		Vanadium					
			mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	
EXC-COMP	JITXF8	8/12/14	1490		6.28	0.323	UD	0.323	782	JN	1.47	1.16	BD	0.491	144	6.87	58.5	0.0982
Sample Location	HEIS Number	Sample Date	Zinc		Nitrogen in Nitrite and Nitrate		TPH - Diesel Range		TPH - Gasoline Range		TPH - motor oil (high boiling)							
			mg/kg	Q	PQL	mg/kg	Q	PQL	ug/kg	Q	PQL	ug/kg	Q	PQL				
EXC-COMP	JITXF8	8/12/14	42.7	C	0.393	3.09	J	0.161	2170	U	2170	16.8	U	16.8	16600	2170		

Grey cells indicate not applicable or data will not be used

A acronyms and notes apply to all of the tables in this attachment.

Note: Data qualified with B, C, J, N and/or X are considered acceptable

B = blank contamination (inorganic constituents)

C = detected in both sample and associated QC blank, sample concentration <=5X blank concentration.

D = reported from a dilution

EXC-COMP = composite sample from the bottom of the excavation

HEIS = Hanford Environmental Information System

J = estimate

N = recovery exceeds upper or lower control limit.

P = A rector target analyte with greater than 25% difference between column analyses

Q = practical quantitation limit

Q = qualifier

RAG = remedial action goal

T = Spike and/or spike duplicate recovery is outside control limits.

U = not detected.

X (metals) = >40% difference between the primary and confirmation detector results. The lower of the two results is reported.

Attachment 1  
 Originator J. D. Skoglie  
 Checked R. J. Nielson  
 Calc. No. 0600X-CA-V0183

Sheet No. 1 of 2  
 Date 11/24/2014  
 Date 11/24/2014  
 Rev. No. 0

**Attachment 1. 600-332 Waste Site In-Process Sample Results (Organics)**

CONSTITUENT	CLASS	EXC-COMP - J1TXF8			CONSTITUENT	CLASS	EXC-COMP - J1TXF8		
		8/12/14					8/12/14		
		ug/kg	Q	PQL			ug/kg	Q	PQL
2,4,5-TP	HERB	3.33	UJX	3.33	1,2,4-Trichlorobenzene	SVOA	101	U	101
MCP	HERB	402	UJXT	402	1,2-Dichlorobenzene	SVOA	101	U	101
2,4,5-T	HERB	3.33	UJX	3.33	1,3-Dichlorobenzene	SVOA	101	U	101
2,4-D	HERB	5.58	UJXT	3.33	1,4-Dichlorobenzene	SVOA	101	U	101
MCPA	HERB	462	UJX	462	2,4,5-Trichlorophenol	SVOA	101	U	101
Dinoseb	HERB	3.33	UJXT	3.33	2,4,6-Trichlorophenol	SVOA	101	U	101
2,4-DB	HERB	3.33	UJXT	3.33	2,4-Dichlorophenol	SVOA	101	U	101
Dalapon	HERB	70.3	UJXT	70.3	2,4-Dimethylphenol	SVOA	101	U	101
Dicamba	HERB	4.02	UJX	4.02	2,4-Dinitrophenol	SVOA	101	UJ	101
Dichloroprop	HERB	4.54	UJX	4.54	2,4-Dinitrotoluene	SVOA	101	U	101
Acenaphthene	PAH	5.03	U	5.03	2,6-Dinitrotoluene	SVOA	101	U	101
Acenaphthylene	PAH	5.03	U	5.03	2-Chloronaphthalene	SVOA	10.1	U	10.1
Anthracene	PAH	1.68	U	1.68	2-Chlorophenol	SVOA	101	U	101
Benzo(a)anthracene	PAH	1.41	J	0.536	2-Methylnaphthalene	SVOA	10.1	U	10.1
Benzo(a)pyrene	PAH	1.81	P	0.536	2-Methylphenol (cresol, o-)	SVOA	101	U	101
Benzo(b)fluoranthene	PAH	0.536	U	0.536	2-Nitroaniline	SVOA	111	U	111
Benzo(ghi)perylene	PAH	1.02	J	0.536	2-Nitrophenol	SVOA	101	U	101
Benzo(k)fluoranthene	PAH	0.268	U	0.268	3,3'-Dichlorobenzidine	SVOA	101	U	101
Chrysene	PAH	0.807	J	0.536	3+4 Methylphenol (cresol, m+p)	SVOA	101	U	101
Dibenz(a,h)anthracene	PAH	0.536	U	0.536	3-Nitroaniline	SVOA	101	U	101
Fluoranthene	PAH	1.25	J	0.536	4,6-Dinitro-2-methylphenol	SVOA	101	U	101
Fluorene	PAH	5.03	U	5.03	4-Bromophenylphenyl ether	SVOA	101	U	101
Indeno(1,2,3-cd)pyrene	PAH	0.536	U	0.536	4-Chloro-3-methylphenol	SVOA	134	U	134
Naphthalene	PAH	5.03	U	5.03	4-Chloroaniline	SVOA	101	U	101
Phenanthrene	PAH	5.03	U	5.03	4-Chlorophenylphenyl ether	SVOA	101	U	101
Pyrene	PAH	1.33	J	0.536	4-Nitroaniline	SVOA	101	U	101
Aroclor-1016	PCB	11.1	UD	11.1	4-Nitrophenol	SVOA	101	U	101
Aroclor-1221	PCB	11.1	UD	11.1	Acenaphthene	SVOA	10.1	U	10.1
Aroclor-1232	PCB	11.1	UD	11.1	Acenaphthylene	SVOA	10.1	U	10.1
Aroclor-1242	PCB	11.1	UD	11.1	Anthracene	SVOA	10.1	U	10.1
Aroclor-1248	PCB	11.1	UD	11.1	Benzo(a)anthracene	SVOA	10.1	U	10.1
Aroclor-1254	PCB	11.1	UD	11.1	Benzo(a)pyrene	SVOA	10.1	U	10.1
Aroclor-1260	PCB	11.1	UD	11.1	Benzo(b)fluoranthene	SVOA	10.1	U	10.1
Aroclor-1262	PCB	11.1	UD	11.1	Benzo(ghi)perylene	SVOA	10.1	U	10.1
Aroclor-1268	PCB	11.1	UD	11.1	Benzo(k)fluoranthene	SVOA	10.1	U	10.1
Aldrin	PEST	0.835	UD	0.835	Bis(2-chloro-1-methylethyl)ether	SVOA	101	U	101
Alpha-BHC	PEST	0.835	UD	0.835	Bis(2-Chloroethoxy)methane	SVOA	101	U	101
alpha-Chlordane	PEST	12.8	D	0.835	Bis(2-chloroethyl) ether	SVOA	101	U	101
Beta-BHC	PEST	0.835	UD	0.835	Bis(2-ethylhexyl) phthalate	SVOA	101	U	101
Delta-BHC	PEST	0.835	UD	0.835	Butylbenzylphthalate	SVOA	101	U	101
4,4'-DDD	PEST	1.67	UD	1.67	Carbazole	SVOA	10.1	U	10.1
4,4'-DDE	PEST	186	D	1.67	Chrysene	SVOA	10.1	U	10.1
4,4'-DDT	PEST	44.5	D	1.67	Dibenz(a,h)anthracene	SVOA	10.1	U	10.1
Dieldrin	PEST	1.67	UD	1.67	Dibenzofuran	SVOA	101	U	101
Endosulfan I	PEST	0.835	UTD	0.835	Diethyl phthalate	SVOA	101	U	101
Endosulfan II	PEST	1.67	UD	1.67	Dimethyl phthalate	SVOA	101	U	101
Endosulfan sulfate	PEST	1.67	UD	1.67	Di-n-butylphthalate	SVOA	101	U	101
Endrin	PEST	1.67	UD	1.67	Di-n-octylphthalate	SVOA	101	U	101
Endrin aldehyde	PEST	1.67	UD	1.67	Diphenylamine	SVOA	101	U	101
Endrin ketone	PEST	1.67	UD	1.67	Fluoranthene	SVOA	10.1	U	10.1
Gamma-BHC (Lindane)	PEST	0.835	UD	0.835	Fluorene	SVOA	10.1	U	10.1
gamma-Chlordane	PEST	18.9	D	0.835	Hexachlorobenzene	SVOA	101	U	101
Heptachlor	PEST	3.97	D	0.835	Hexachlorobutadiene	SVOA	101	U	101
Heptachlor epoxide	PEST	0.835	UTD	0.835	Hexachlorocyclopentadiene	SVOA	101	UJ	101
Methoxychlor	PEST	8.35	UD	8.35	Hexachloroethane	SVOA	101	U	101
Toxaphene	PEST	27.8	UJ	27.8	Indeno(1,2,3-cd)pyrene	SVOA	10.1	U	10.1
					Isophorone	SVOA	101	U	101
					Naphthalene	SVOA	10.1	U	10.1
					Nitrobenzene	SVOA	101	U	101
					N-Nitroso-di-n-dipropylamine	SVOA	101	U	101
					Pentachlorophenol	SVOA	101	U	101
					Phenanthrene	SVOA	10.1	U	10.1
					Phenol	SVOA	101	U	101
					Pyrene	SVOA	10.1	U	10.1

Attachment  
Originator  
Checked  
Calc. No.

1  
J. D. Skoglie  
R. J. Nielson  
0600X-CA-V0183

Sheet No. 2 of 2  
Date 11/24/2014  
Date 11/24/2014  
Rev. No. 0

# Attachment 8

**^WCH Document Control**

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**From:** Saueressig, Daniel G  
**Sent:** Tuesday, January 06, 2015 6:16 AM  
**To:** ^WCH Document Control  
**Subject:** FW: STAGING PILE AREA REQUEST TO SUPPORT 600-367  
**Attachments:** 600-367 Design Drawing.pdf; 600-367 SPA Request.ppt

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

Thanks,

Dan Saueressig  
Environmental Project Lead  
Washington Closure Hanford  
521-5326

**From:** Simes, Benjamin [<mailto:Simes.Benjamin@epa.gov>]  
**Sent:** Tuesday, January 06, 2015 5:47 AM  
**To:** Saueressig, Daniel G  
**Cc:** Zeisloft, Jamie; Laurenz, Julian E; Faulk, Dennis A  
**Subject:** RE: STAGING PILE AREA REQUEST TO SUPPORT 600-367

Jamie and Dan,

The SPA drawings have been reviewed, I have no additional comments. I would like to see some pictures after the SPA has been prepared, prior to excavation.

Thanks,

Benjamin Simes, CHMM  
US EPA, OSWER  
Federal Facilities Restoration and Reuse Office  
703-603-0055 D  
571-302-6189 C  
703-603-0043 F

**From:** Saueressig, Daniel G [<mailto:daniel.saueressig@wch-rcc.com>]  
**Sent:** Thursday, December 11, 2014 12:42 PM  
**To:** Simes, Benjamin  
**Cc:** Zeisloft, Jamie; Laurenz, Julian E  
**Subject:** STAGING PILE AREA REQUEST TO SUPPORT 600-367

Ben, I'd like to request your approval to set up a staging pile area (SPA) to support remediation of 600-367. The attached drawing was shared with you during your visit on December 2 and depicted a proposed SPA to the north of the

drawing. I've also attached an aerial photograph showing the proposed area where the SPA could be located. We're planning to direct load the waste from 600-367 but would like to have a SPA location approved if the need to stockpile waste arises.

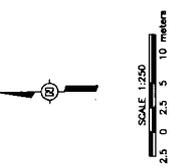
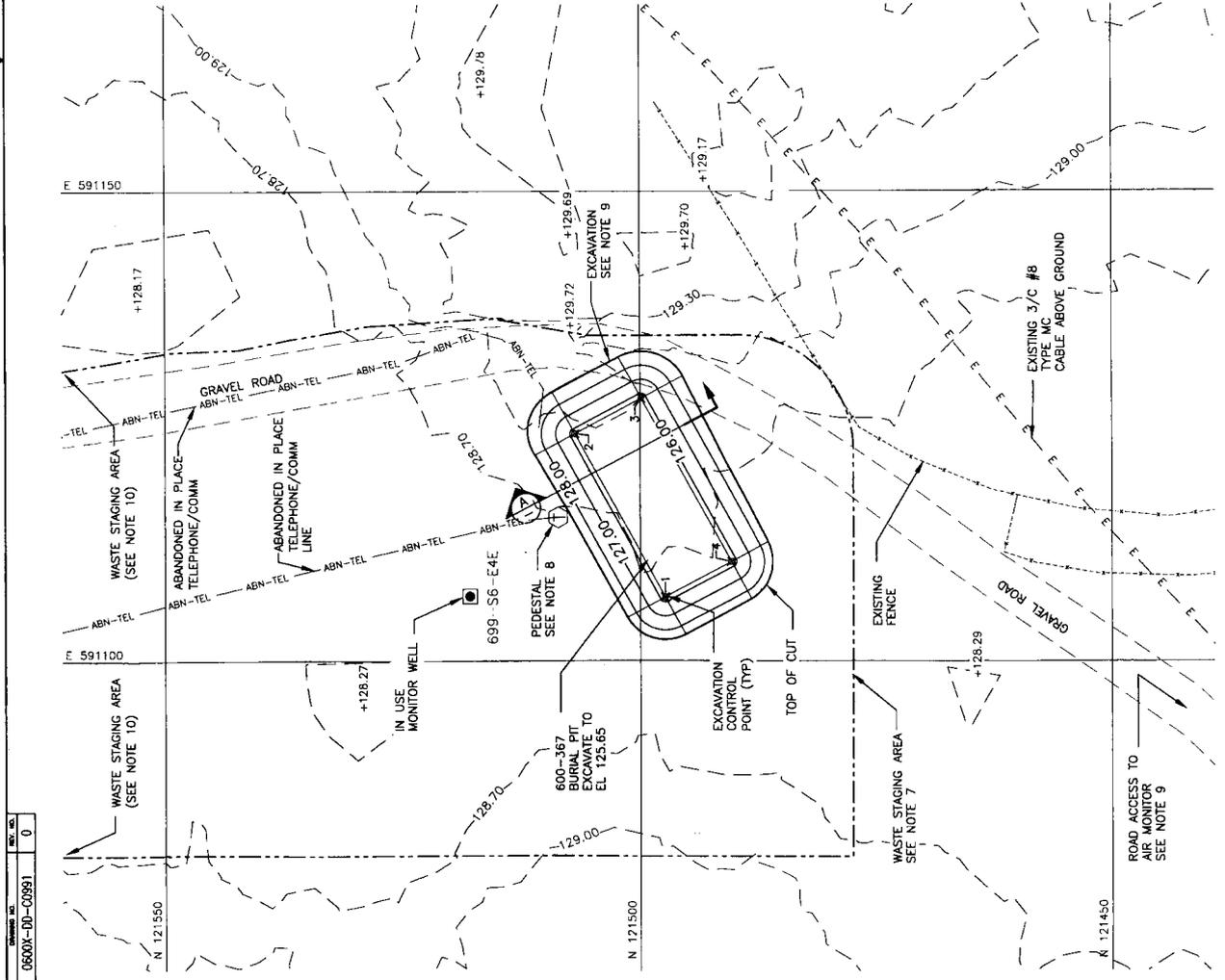
The SPA will be operated in compliance the RDR/RAWP for the 300 Area (DOE/RL-2001-47, Section 4.4.2 or DOE/RL-2014-13-ADD1, section 5.4.3 if approved before remediation begins).

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

Thanks,

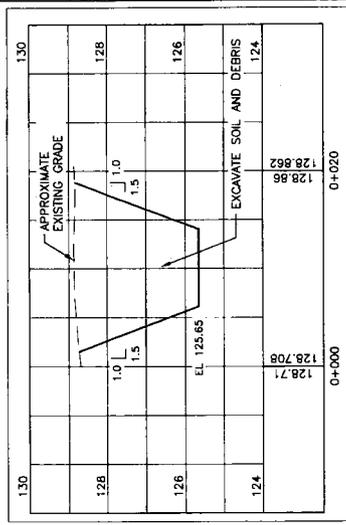
Dan Saueressig  
Environmental Project Lead  
Washington Closure Hanford  
521-5326

0600X-DD-C0991 0



600-367 SOIL REMOVAL EXCAVATION COORDINATE CONTROL TABLE

Point #	Coasting	Northing	Elevation	Description
1	591106.78	121497.37	125.65	EXCAV. BTM
2	591124.22	121506.85	125.65	EXCAV. BTM
3	591127.97	121499.91	125.65	EXCAV. BTM
4	591110.52	121490.40	125.65	EXCAV. BTM



SECTION A-HORIZONTAL SCALE: 1:250 VERTICAL EXAGGERATION 4X

NOTES

1. DEPTH OF EXCAVATION TO BE APPROXIMATELY 3.05M (10 FEET) BELOW EXISTING TOPOGRAPHY.
2. ALL ELEVATIONS AND DIMENSIONS ARE IN METERS EXCEPT AS SPECIFICALLY SHOWN.
3. BASE TOPOGRAPHY USED FOR DESIGN WAS TAKEN FROM AEROMETRIC'S 2008 FLY-OVER.  
HORIZONTAL DATUM: WASHINGTON STATE PLANE.  
SOUTH ZONE METERS NAD83(91)  
VERTICAL DATUM: NATIONAL GEODETIC SURVEY DATUM NAD88 METERS. CONTOUR INTERVAL: 0.5 METERS
4. LOCATION OF 600-367 WASTE SITE TAKEN FROM GEOPHYSICAL SITE INVESTIGATION SUMMARY G# 0614559.
5. PROTECT ALL ABOVE AND BELOW GRADE INTERFERENCES INCLUDING WELLS, BENCHMARKS, AND EXISTING ACTIVE UTILITIES.
6. LIMITS OF EXCAVATION ARE BASED ON A 1.5 HORIZONTAL TO 1.0 VERTICAL CUT SLOPE. THE ACTUAL EXCAVATION LIMITS SHALL BE ESTABLISHED IN ACCORDANCE WITH TECHNICAL SPECIFICATION DOCUMENTS.
7. STAGING OF DEBRIS AND WASTE SHALL OCCUR WITHIN THE WASTE STAGING AREA.
8. EXISTING TELEPHONE PEDESTAL AND BURIED ABANDONED TELEPHONE/COMM WIRES TO BE REMOVED AS REQUIRED TO OBTAIN EXCAVATION ACCESS. DEBRIS TO BE DISPOSED.
9. EXCAVATION LIMITS TO ENCRoACH GRAVEL ROAD. ROAD ACCESS SHALL BE MAINTAINED AS REQUIRED BY 618-10 OPERATIONS TO ACCESS AIR MONITOR.
10. WASTE STAGING AREA EXTENDS APPROXIMATELY 50 METERS NORTH BEYOND LIMITS OF DRAWING.

DOCUMENT CONTROL 02/29/14

NO.	DATE	DESCRIPTION	BY	CHKD.
1	8/17/14	ISSUE FOR CONSTRUCTION	CM	14/08/14

**U.S. DEPARTMENT OF ENERGY**  
DOE RICHLAND OPERATIONS OFFICE  
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC.  
RICHLAND, WASHINGTON

600 AREA  
REMEDIAL ACTION DESIGN  
600-367 CIVIL PLOT PLAN

WCH JOB NO. 14655  
DOE CONTRACT NO. DE-AC06-05RL-14655 (0600X-DD-C0991-R00)  
TASK FF-2  
DRAWING NO. 0600X-DD-C0991  
REV. NO. 0

Fluor Daniel  
Dedicated to Safety & Excellence



Requested Staging/Stockpile Area (Everything below dark blue line)



- Legend**
- Area of Potential Effect (APE)
  - 800-367 Waste Site
  - Roads

NOTES: Aerial Image, 2011. NAIP.



**Detail of Area of Potential Effect (APE)**  
 HCR/C2013-100-031 | 800-367 Waste Site  
 Hairford Site, Benton County, WA

From: C:\unifac\map\hairford\2013-100-031\_800-367.mxd

# Attachment 9

300 Area Closure Project Status  
January 8, 2015  
100/300 Area Combined Unit Manager Meeting

**309 PRTR**

- Below-grade demolition to the -32 foot elevation is completed.
- Remediation of waste sites UPR-300-5, 300-255, and 300-22 is completed.
- Evaluating deep zone characterization data and preparing to decontaminate the -32 foot deck surfaces.

**340 Complex**

- Completed final remediation of 340 waste sites and cleanup of hot-spots.
- Close-out verification sampling Work Instruction with EPA for approval.
- Backfill of the access ramp completed, verification sampling pending.

**324 Laboratory**

- 60% Design for the 300-296 remediation has been delivered to DOE.
- Construction of the REC mock-up is ongoing.
- Continue facility min-safe operations.

**Remediation**

- Zone 1, 300-15 (process sewer) remediation completed, close-out verification samples collected, backfill concurrence in development.
- Remediation of Zones 2 and 3 RRLWS, RLWS, 300-214 (retention process sewer) and 300-15 piping completed.
- Completed remediation and close-out verification sampling of the 300-7 waste site (early burial ground), backfill concurrence submitted to EPA for approval.
- Completed remediation of 300-9 waste site, verification sampling completed.
- Remediation of the 300-289 waste completed, close-out verification sampling pending. Remediation of the 300-4 waste site ongoing.
- Initiated remediation of the 316-3 waste site.

# Attachment 10

## **ESH&QA Mission Completion Project**

January 8, 2015

### **Long-Term Stewardship**

- Continued drafting of the 100-BC-2 OU Interim Remedial Action Report.

### **Final Action ROD RDR/RAWPs**

- All comments on the 300-FF-2 RDR/RAWP Soil Addendum have been resolved and the document is in the final approval process.
- The decisional draft of the 100-F/IU-2/IU-6 RDR/RAWP Soil Addendum was provided to DOE-RL for review on 12/3/14.