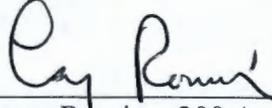
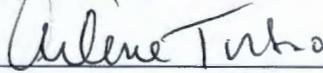
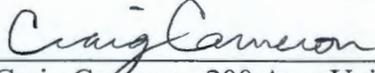
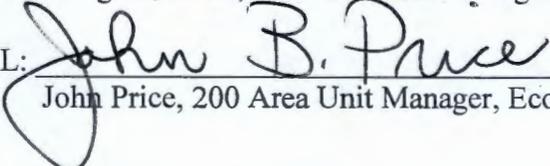


**Meeting Minutes Transmittal/Approval
Project Managers' Meeting
200 Area Groundwater and Source Operable Units
1200 Jadwin, Richland, Washington
June 19, 2008**

APPROVAL:  Date: 8/5/08
Larry Romine, 200 Area Unit Manager, DOE/RL

APPROVAL:  Date: 7/16/08
Arlene Tortoso, 200 Area Assistant Manager, DOE/RL

APPROVAL:  Date: 8/14/08
Craig Cameron, 200 Area Unit Manager, EPA

APPROVAL:  Date: 8-19-2008
John Price, 200 Area Unit Manager, Ecology

HFFACO Action Plan Section 4.1 requires signature of agreements and commitments made during the Unit Manager Meeting. Approval of these minutes documents approval of agreements and commitments documented in Attachment 3 to these minutes. Approval does not apply to any other attachments, which are included in these minutes for informational purposes.

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AUG 21 2008
EDMC

Minutes of the 200 Area Project Managers' Meeting of June 19, 2008 are attached.
Minutes are comprised of the following:

Attachment 1	Agenda
Attachment 2	Attendance Record
Attachment 3	Agreements and Issues List
Attachment 4	Action Item List
Attachment 5	Operable Units and Facilities Status
Attachment 6	200-UP-1 Uranium
Attachment 7	200-UP-1 Technetium-99
Attachment 8	200-ZP-1 Aquifer Recovery Testing
Attachment 9	Carbon tetrachloride concentrations in extraction well 299-W15-6.
Attachment 10	200-PW-1 OU: 3 Narrow Diameter Vapor Extraction Wells
Attachment 11	Figure 1: Wells 299-E33-205, 299-E33-340, 299-E33-341, 299-E33-342 and 299-E33-345 Location Map
Attachment 12	Figure 2: Well 699-52-55 Location Map
Attachment 13	Airborne EM Flight Area
Attachment 14	BCCA Downposting
Attachment 15	Change Notice for Modifying Approved Documents/Workplans In Accordance with the Tri-Party Agreement Action Plan, Section 9.0, Documentation and Records (TPA-CN-221)
Attachment 16	Change Notice for Modifying Approved Documents/Workplans In Accordance with the Tri-Party Agreement Action Plan, Section 9.0, Documentation and Records (TPA-CN-225)

Attachment 17

Change Notice for Modifying Approved Documents/Workplans In Accordance with the Tri-Party Agreement Action Plan, Section 9.0, Documentation and Records (TPA-CN-206)

Attachment 18

Change Notice for Modifying Approved Documents/Workplans In Accordance with the Tri-Party Agreement Action Plan, Section 9.0, Documentation and Records (TPA-CN-205)

200 AREA PROJECT MANAGERS' MEETING AGENDA

1200 Jadwin/Rm 1-C-1
June 19, 2008
8:30 – 10:00 AM

SOURCE REMEDIES AND D4

- 200-CW-3
- BC Control Area
- 200-UW-1
- Facilities (D4)
- Recap Agreements, Issues and Action Items

GROUNDWATER and SOURCE OPERABLE UNITS

- 200-UP-1, 200-CS-1 and 200-CW-1 Group
- Supplemental Characterization Model Groups 2/4/6 and 5
- 200-BC-1, 200-IS-1, 200-CW-5 and 200-SW-1/2 Group
- 200-ZP-1, 200-PW-1/3/6 Group
- 200-MW-1 Group and 200-PW-2/4
- 200-MG-1/2 and Eco. Group
- 200-BP-5 Group and 200-PO-1
- 200-SC-1 Group and 200-LW-1/2 Group
- 200-TW-1 and 200-PW-5
- 200-TW-2 Group
- 200-UR-1
- Recap Agreements, Issues and Action Items

200 Area Project Managers' Status Meeting
June 19, 2008

Please print clearly and use black ink

PRINTED NAME	ORGANIZATION	O.U. ROLE	TELEPHONE
Allan Danielson	DEPT OF HEALTH		.
Dave Black	FH TPA		376-0740
Mandy Jones	Ecology		372-7916
Shirley Ciment	OREGON		(541) 963-0853
Russ Hulvey	FH-S&GRP		376-0303
Jennie Seaver	FH-DAD		376-3762
Jamie Williams	FH		372 3553
Wade Woolery	DOE RL		372-2889
Kevin Leary	DOERL		373-7285
JERRY CAMMANN	FES		376-2037
Mark Byrnes	FH	PM for ZP-1	373-3996
Rich Oldham	FIH	ECO	372 2926
Arlene Turk	DOE	200 Area UN	373-9631
AL Farabee	DOE	N/A	376-8089
Tony Knapp	YAHUSGS	UP-1	438-6453
Deborah Singleton	Ecology		372-7923
Bryan Foley	DOE-RL		376-7087
Laura Buelow	EPA	TW-1, PWS	376-5469
Rod Lobos	EPA		
Ron Sprinke	FH	CS-ICW-1	376-2663

200 Area Project Managers' Status Meeting
June 19, 2008

Please print clearly and use black ink

PRINTED NAME	ORGANIZATION	O.U. ROLE	TELEPHONE
Larry Rowley	RL	200 A	376-4747
Elen Triner	FH	UP-1/OW-1	430-1013
Rick Bond	ECY	Fac DTD	372-7885
Craig Cameron	EPA		376-8665
Kathy Davis	FLOOR	200 PW1/3/6	376-2848
Virginia Rohay	FH	200-PW-1	373-3803
GENE ROOSENDAAL	FH	200-BC-1	373-5664
Phil Rogers	FH	200-PW-2/4 200-MW-1	376-5807
Jennifer Ollero	ECY	FACILITIES SW-1/2	372-7988
MIKE HICKEY	FH	200 PW-5 IS-1	373-3092
Greg Thomas	FH	BP-5	373-3907
Tom Watson	FH	CP	376-5450
GLORIA CUMMINGS	FH	PO-1	372-2484
BRIAN ESPARZA	FH	TW-1/PW-5 TW-2	376-6199
Jay Decker	FHI	SC-1 LW-1/2	376-4416
Chris Wollam	FH	UR-1	3-1587
Stuart Luttrell	FH	GW Mon	376-4531
Tom Fitcher	RL		

**200 Area Project Managers' Meeting
Agreements and Issues List
June 19, 2008**

Agreement: Ecology and RL agreed that a soil sample be collected at ~75 feet bgs during the drilling of the 216-U-10 borehole. This sample is in addition to the scheduled samples and will be analyzed for the same suite of contaminants indicated for soil sample at U-10 provided in the SAP. The reason for the agreement is a sample indicated a higher water content than any other sample to-date. The higher water content is considered indicative of a higher silt content. These conditions were considered important to understanding the potential for the pond to be a source of future groundwater contamination. Should contaminant still exist, these high silty lenses would likely be the source of retained pond contamination.

Agreement: TPA-CN-221 for DOE/RL-2007-0, Rev. 0, Supplemental Remedial Investigation/Feasibility Study Work Plan for the 200 Area Central Plateau Operable Units, Volume I and II: Delete supplemental characterization at 216-T-36 Crib (**Attachment 15**).

Agreement: TPA-CN-225 for DOE/RL-2007-2, Rev. 0, Site Specific Field Sampling Plans for the 216-A-5 Crib and 216-S-1 & 2 Cribs, 200-PW-2/4 Operable Unit: Delete installation of two dedicated downhole electrode probes from 216-A-5 Crib Sampling Plan (**Attachment 16**).

Agreement: TPA-CN-206 for DOE/RL-2003-30, Rev. 3, Waste Control Plan for the 200-BP-5 Operable Unit: Add two monitoring wells and an alternate monitoring well at the Liquid Effluent Retention Facility (LERF). Add one replacement well at Waste Management Area B-BX-BY (WMA B-BX-BY) (**Attachment 17**).

Agreement: TPA-CN-205 for DOE/RL-2003-4, Rev. 1, Sampling and Analysis Plan for the 200-PO-1 Operable Unit: Amend Table 2-1, Sampling and Analysis Schedule for 200-PO-1 Groundwater Operable Unit Near-Field Wells, Table 2-2, Sampling and Analysis Schedule for 200-PO-1 Groundwater Operable Unit Far-Field Wells and Table A.1, Sampling and Analysis Schedule for Supplemental Wells (**Attachment 18**).

Agreement: EPA, Ecology and RL agree that it is allowable that the 200-ZP-1 wells that were set for quarterly sampling in May have been postponed due to the aquifer recovery test in the T Tank Farm. As soon as wells W11-45 and W11-46 are back online the wells listed below will be sampled:

299-W10-24
299-W11-39

299-W11-40
299-W11-42

299-W11-45
299-W11-47

**200 Area Project Managers' Meeting
Agreements and Issues List
June 19, 2008**

Agreement: Ecology approves mobilization in the BC Control Area, prior to sign off on the RAWP.

Issue: None Identified.

Delegations for June 19, 2008 UMM meeting:

EPA	Craig Cameron
Ecology	Mandy Jones for John Price
DOE/RL	Arlene Tortoso
	Larry Romine

OPEN ACTION ITEM TRACKING							
Action #	Action/Subject	Assigned To	Owed To	Assigned Date	Original Due Date	Adjusted Due Date	Status
	NO ACTIONS						
CERCLA 5-Year Review Action Items							
Action #	Action/Subject	Assigned To			Due Date		Status
13-1	Complete a data quality objective process and sampling plan to further characterize the technetium-99 groundwater plume near T Tank Farm.	Fluor Hanford					Complete
14-1	Assess treatment options to address technetium-99 near T Tank Farm.	Fluor Hanford					Complete
15-1	Complete data quality objective process and sampling plan to further characterize the high soil conductivity measurements detected at B/C cribs and trenches.	sc					Complete
16-1	Increase the pump size in 200-ZP-1 extraction wells 299-W15-45 and 299-W15-47.	Fluor Hanford					Complete
17-1	Evaluate expanding the soil-vapor extraction operations. Also, specifically review converting former groundwater extraction well 299-W15-32 to a soil-vapor extraction well.	Fluor Hanford					Complete
18-1	Prepare an explanation of significant difference for 200-UP-1 Interim ROD	Ecology			6/1/2008		Second draft submitted by Ecology to DOE on 6/4/08.

S&GRP TPA Primary and Secondary Document Tracking List

Document Data									
Operable Unit/Project	Document Title	Document Owner	Document Type - Pri or Sec	Document ID	Date Issued	Date Approved	Document Status	Document Location	Document Description
200-CW-1	TPA Change Package M-15-08-02- Modification to TPA Milestone M-015-08B	Ron Brunke	NA						
200-CS-1	Feasibility Study, Draft B	Ron Brunke	P						
200-CS-1	RCRA Closure Plans for 216-A-29, 216-B-63, and 216-S10D	Ron Brunke	P						
200-CW-5	Feasibility Study and Proposed Plan, Draft B	Mike Hickey	P						
200-PW-1/3/6	DOERL-2007-27, Draft A, Feasibility Study for the Plutonium/Organic-Rich Process Condensate/Process Waste Group Operable Unit	Kathy Davis	P						
200-PW-1/3/6	DOERL-2007-40, Draft A, Proposed Plan for 200-PW-1, 200-PW-3, and 200-PW-6 Operable Units	Kathy Davis	P						
200-LW-1	Remedial Investigation/Feasibility Study Site Specific Field Sampling Plan, Draft A	Jay Decker	P						
200-LW-1	Remedial Investigation/Feasibility Study Site Specific Field Sampling Plan, Rev. 0	Jay Decker	P						
200-LW-1	Waste Control Plan	Jay Decker	S						
200-MW-1	Remedial Investigation, Draft A	Phil Rogers	P						
200-MW-1	Remedial Investigation Report for Supplemental Investigations (representative title)	Phil Rogers	P						
200-SW-1/2	Remedial Investigation Work Plan, Draft B	Greg Berlin	P						
200-IS-1	Remedial Investigation Work Plan, Rev. 1	Mike Hickey	P						
200-IS-1	Waste Control Plan for IS-1	Mike Hickey	TBD						
200-TW-2	Waste Control Plan	Bill Barrett	S						
200-MG-1/2	EE/CA for MG-1 and for MG-2	Roy Bauer	P						
200-BP-5	RIFS Work Plan/SAP, DOERL-2007-18, Rev. 1	Greg Thomas	P						
200-ZP-1	Decisional Draft Remedial Design Report, Rev. 4	Mark Byrnes	P						
200-ZP-1	Feasibility Study, Rev. 0	Mark Byrnes	P						
200-ZP-1	Proposed Plan, Rev. 0	Mark Byrnes	P						
200-ZP-1	Annual ZP-1 Dump and Treat System Performance Report, Rev. 0	Mark Byrnes	S						

200 AREA PROJECT MANAGERS' MEETING OPERABLE UNITS AND FACILITIES STATUS

June 19, 2008

D&D OUs

200-CW-3 - EPA Lead

- Remaining Sites SAP: Informal regulator comments received & being incorporated.
- Remaining Sites RAWP: In RL review.

Rail Car Disposition Options Study

The railroad car disposition options study will be provided to regulators for information in FY09.

EE/CA for Buildings 212-N, P, R - The development of the EE/CA has been initiated.
Target completion date: October 30, 2008.

Schedule Status: On schedule.

200-BC Control Area (BCCA) – Ecology Lead

- The Action Memorandum for BCCA has been approved. The RAWP is now with the regulators undergoing review and comment.
- Cultural/Historical assessment for Zone A of the BCCA has been forwarded to the SHPO for a 30 day public comment review period which ends June 27, 2008.
- The Biological/Ecological review for Zone A of the BCCA report was finalized on May 30, 2008.
- The Queue area development for BCCA is complete with the exception of the survey station which will be assembled ~mid-July in preparation for field excavation.

Schedule Status: On schedule.

200-UW-1 Ecology

- The revised technical basis documents that describe how the STOMP modeling approach being proposed satisfies the applicable or relevant and appropriate requirements of WAC 173-340-747(8) and other State and Federal regulations and guidance have been provided to DOE/RL for one final review before they officially transmit the documents to the EPA and Ecology.
- The U-1/2, U-12, and 270-W Supplemental Deep Vadose Zone characterization DQO will begin shortly.
- DOE/RL has requested FH to prepare a couple of different draft schedules based on supporting issuance of a final ROD next summer.

Schedule Status: DOE: On schedule, based on recently approved DOE baseline.

FACILITIES STATUS

- DOE received Regulator comments on the 221-U RD/RAWP and initiated the TPA dispute processes to resolve comments. Four of the five topics of dispute were resolved at the May 27, 2008 IAMIT. The last topic is on the June IAMIT agenda.

Central Plateau Facility Decommissioning

- The Agreement in Principle for decommissioning central plateau facilities is on hold pending completion of the dispute resolution process regarding comments to the 221-U RD/RAWP.

Schedule Status: 221-U RD/RAWP is behind schedule. There is no formal schedule for the Facility Decommissioning AIP.

200-UP-1, 200-CS-1, 200-CW-1 OU Group

200-UP-1

- Values at well 299-W19-36 dropped below the 9,000 pCi/L RAO for Technetium-99. Well 299-W19-36 yielded a concentration of 7,400 pCi/L in a January 8, 2008 sample based on interim results.
- All other wells are below the interim RAOs of 480 µg/L and 9,000 pCi/L respectively (**Attachments 6 and 7**).
- RI/FS Work Plan:
 - Monitoring continues.
- Explanation of Significant Difference (ESD):
 - Ecology transmitted the draft ESD to DOE/RL and EPA for review. A second Revision was received on 6/4/08. A meeting has tentatively been scheduled between DOE/RL and Ecology for 6/23/08 to discuss the document.
- Pump and Treat
 - On April 19, 2007 the pumps in wells W19-36 and W19-43 were restarted. Through March 31, 2008 the project has pumped about 18.4 million liters to the LERF Basin 43 at a current average rate of approximately 35L/m (9.24 gpm). These two wells address the higher uranium groundwater concentrations found in the area. Uranium concentrations have been below 300 ug/L since October 2007.
 - On April 16, 2008 well 299-W19-43 pump failed and went off-line. The pump is scheduled to be replaced the middle of July.

Schedule Status: On schedule.

200-CS-1

Ecology response has not been received on the Draft B of the feasibility study and proposed plan that were submitted to Ecology on September 27, 2007. Per TPA Action Plan Section 9.2, DOE/RL expected a response by October 29. Per Ecology's July 3, 2006 letter RL and TPA Action Plan Section 9.2, RL expected a response on the TSD closure plans by December 26. Ecology intends to include the three TSD units into the reissued RCRA Permit per Ecology letter of April 26, 2006.

On June 6 Ecology emailed informal comments to RL regarding the information shared by RL on May 8 regarding a process for reaching agreement on a remedy/action to propose for the TSD units. RL/FH are preparing for a follow on meeting that will incorporate responses to Ecology's informal comment. Also on May 8 Ecology shared an informal RL comment on a preliminary draft of RCRA Permit conditions for incorporating the TSD units. On June 6, Ecology informed RL/FH not to comment on the May 8 draft and that the comment draft of RCRA Permit conditions would be replaced soon.

Schedule Status: Behind schedule according to DOE baseline. Ecology/RL discussions to reach agreement on specific clean-up actions and clean-up levels are continuing.

200-CW-1

(M-015-38B, 5/31/09, Feasibility Study/Proposed Plan) Ecology

The Class II Change Request Number M-15-08-02 was approved on 5/29/08. The Change Request moves the date for submittal of the FS and PP to November 30, 2010.

Supplemental Remedial Investigation

- The 216-T-4B Pond slim line DPTs will occur in June (interface with Tank Farms).
- Logging of the 37 slim line DPTs will follow logging of the 100 foot slim line DPTs. Soil sample to follow. The 15-20' large diameter DPTs at U pond have been logged and decommissioned.
- The 100' direct pushes began June 10. Logging began June 16 and the direct pushes for soil samples will follow.
- The 216-U-10 borehole began June 3. The borehole is currently at 126 feet with one soil sample remaining at 135 feet.
 - Ecology and DOE agreed that a soil sample be collected at ~75 feet bgs during the drilling of the 216-U-10 borehole. This sample is in addition to the scheduled samples and will be analyzed for the same suite of contaminants indicated for soil sample at U-10 provided in the SAP. The reason for the agreement is a sample indicated a higher water content than any other sample to-date. The higher water content is considered indicative of a higher silt content. These conditions were considered important to understanding the potential for the pond to be a source of future groundwater contamination. Should contaminant still exist, these high silty lenses would likely be the source of retained pond contamination.
- The Test Pits (Augers) in U Pond are now scheduled to begin by July.

Schedule Status: On schedule

200-BC-1, 200-IS-1, 200-CW-5, & 200-SW-1/2 OU Group

200-BC-1

(M-15-51, 4/30/10, Feasibility Study/Proposed Plan) EPA

- Analyses are in progress to evaluate correlation of electrical resistivity characterization (ERC) data with contaminant concentrations and soil properties. Two of the three boreholes planned this FY are complete; the third is within ~20 ft of being complete. Analytical results continue to show the presence of high nitrate and Tc-99 concentrations in the area indicated by ERC to be contaminated.
- Phase 2 of the Excavation-based Treatability Test began with removal of the top four ft of soil from the 216-B-26 Trench excavation area. Excavation of soil below the four foot "bench level" and loading of containers for disposal at ERDF is in progress and about 40% complete.

Schedule Status: On schedule.

200-IS-1

(M-13-27, 6/30/07, RI/FS Work Plan) Ecology

- Ecology has approved the 200-IS-1 WP and SAPs.
- Field work scheduled to start mid-June 2008.

Schedule Status: On schedule.

200-CW-5 (no change)

(M-15-40D, 7/31/08, Feasibility Study/Proposed Plan) EPA

Feasibility Study and Proposed Plan are on schedule for submittal July 31, 2008.

Schedule Status: On schedule.

200-SW-1/2

(M-15-00, 12/31/11, Feasibility Study/Proposed Plan) Ecology

- Completed TPA milestone M-13-28 (Transmit RI/FS Work Plan (Draft B) to Ecology by 9/30/07) on schedule.
- Received Ecology's comments on Work Plan.
 - Comment resolution meetings with RL and Ecology began April 4, 2008.
 - Agreement reached on all comments (267 total) on June 4, 2008.

Schedule Status: On schedule.

200-ZP-1, 200-PW-1/3/6 OU Group

200-ZP-1

(M-15-48B, 9/30/07, Feasibility Study/Proposed Plan) EPA

- Remediation Treatment Status:
 - Between October 1, 2007 and June 1, 2008 the 200-ZP-1 pump-and-treat system average pumping rate was approximately 234 gpm.
 - All ten 200-ZP-1 extraction wells are currently off line as we are currently working on connecting the four new extraction wells to the ZP-1 treatment system.
 - T Tank Farm extraction well W11-46 is back on line for an aquifer drawdown test and is pumping water to ETF at a rate of approximately 38 gpm. T Tank Farm extraction well W11-45 will be put back on line the first week in July. The May sampling of the surrounding RCRA monitoring wells has been on hold so that the aquifer testing is not disturbed. The sampling of these wells has been moved to mid July when aquifer testing is complete.
 - RCRA Monitoring Wells: 299-W10-24, 299-W11-39, 299-W11-40, 299-W11-42, and 299-W11-45
 - **Attachment 8** shows the schedule for the aquifer testing in the vicinity of the T Tank Farm extraction wells. Also shown is the estimated ETF downtime for system upgrades.
 - SAP for Aquifer Testing has been distributed.
 - The results from a literature study for I-129, uranium, and nitrate treatment options has been finalized and has been issued.
 - EPA and RL comments on the decisional draft, Rev. 4, ZP-1 Remedial Design Report (DOE/RL-96-07) have been received and document has been modified to accommodate them. The document is currently being issued.
 - **Attachment 9** shows the latest carbon tetrachloride concentrations in extraction well 299-W15-6.
 - The tie-in of the four new ZP-1 extraction wells is on schedule. Discharge line is being laid. New control system software is being installed.
 - Held our eighth integration meeting with the tank waste EIS group on Monday, May 19, 2008. Meeting minutes will be issued shortly.
- RI/FS Status:
 - FS and PP Report:
 - Rev. 0 PP was issued to DOE-RL and EPA on Friday, June 6 to meet 45 day TPA schedule. The Rev. 0 FS will be issued in the next week or so.
- Tc-99 Investigation Status:
 - T Tank Farm Investigations:
 - The new "T-6" (W11-89) well will be staked in early September 2008 once the results from the aquifer testing have been evaluated by an

FH sub-contractor.

- Purolite Resin Treatability Testing:
 - EPA and RL comments on the decisional draft Purolite Resin Treatability Test Report (DOE/RL-2008-25) have been received and document has been modified to accommodate them. The document is currently being issued.

Schedule Status: On schedule.

200-PW-1, 200-PW-3, & 200-PW-6

(M-15-45B, 9/30/07, Feasibility Study/Proposed Plan) EPA

- RL provided a briefing for the Oregon Hanford Cleanup Board on 200-PW-1/3/6 on 5/29/08.
- Soil Vapor Extraction System (SVE):
 - The SVE system is still situated at Z-1A.
 - Between April 1 and June 1, 2008, the soil vapor extraction system average pumping rate was 365 cfm.
 - The RFP for two new 500 cfm SVE units was issued a couple of weeks ago. Many qualified vendors were contacted directly to bring their attention to the RFP. Only one vendor responded to the RFP and their systems will not meet our requirements. We have to simplify the systems in order for more companies to bid. This will require FH to install the HEPA and interlocks ourselves.
 - The passive systems remain operational.
 - Monthly monitoring results for April and May 2008 for the three narrow diameter wells south of 216-Z-9 are shown in **Attachment 10**. Monthly monitoring results for April and May 2008 at the other soil vapor probes and wells were consistent with results from previous monitoring.

Schedule Status: On schedule.

200-MW-1 & PW-2 OU Group

200-MW-1

(M-15-44B, 12/31/08, Feasibility Study/Proposed Plan) EPA

- The mini-RI for the supplemental investigations is being reviewed internally. Review comments have been requested by June 26, 2008.
- EPA comments on the draft RI (DOE/RL-2005-62) were received May 2, 2008 and are being addressed.
- Preparation of the FS report continues.
- The mini-DQO was kicked off June 10 with a meeting with EPA and DOE.

Schedule Status: On schedule to meet TPA interim milestone.

200-PW-2 & 200-PW-4

(M-15-43D, 12/31/10, Feasibility Study and Revised Recommended Remedy(ies)) Ecology

- DOE and Ecology approved a change notice (Change number TPA-CN-225) that deleted the requirement to install two dedicated downhole electrodes in the deep borehole in the 216-A-5 Crib (see Agreements and Issues List).
- The direct push at the 216-A-5 Crib was completed except for decommissioning. A direct push at the 216-S-1/2 has been advanced to 63 ft bgs. Preliminary geophysical logs indicate higher than expected levels of Cs-137 which require the work at the 216-S-1/2 Crib be upgraded to "high-risk".

Schedule Status: On schedule to meet TPA interim milestone.

200-MG-1/2 & ECO OU Group

200-MG-1/200-MG-2 Model Group 1 Sites (no change)

(M-15-49A, 12/31/08, MG-1 EE/CA) Ecology

(M-15-49B, 12/31/08, MG-2 EE/CA) EPA

The M-15-49A and M-15-49B Milestones require engineering evaluations/cost analyses (EE/CAs) by December 2008. Work continues to prepare the EE/CAs.

Schedule Status: On schedule to meet the TPA interim milestones.

Ecological Risk Assessment

- EPA submitted their comments on the Rev A Central Plateau Ecological Risk Assessment (ERA) on 4/30/08. Comments were received from the Yakama Nation on 5/5/08. Ecology's comments were received on 5/20/08.
- Responses are being developed for the decision-maker comments on the Rev A ERA.

Schedule Status: Currently 2 months behind the DOE baseline.

200-BP-5 & PO-1 OU Group

200-BP-5

(M-13-06B, 3/31/07, RI/FS Work Plan, Completed) EPA

(M-15-21A, 10/31/10, Feasibility Study/Proposed Plan) EPA

Drilling:

- Drilling of well 299-E33-205/C5989 began April 30, 2008 (Figure 1, **Attachment 11**). Drilling as of COB June 12 had advanced to 185' bgs.

- Drilling of well 299-E33-340/C5853 began April 7, 2008 (Figure 1). Drilling as of COB June 11 had advanced to 248.5' bgs. Drilling delays have been associated with extremely difficult drilling through Elephant Mountain Basalt formation.
- Drilling of well 299-E33-341/C5856 began April 28, 2008 (Figure 1). Well was completed and permanent pump installed June 11.
- Well 299-E33-345/C6226 initial well development completed April 25 (Figure 1).
 - Unusually low well yield was reported during initial development. Further evaluation is planned to determine if the low yield from the well are formational or associated with destruction and re-completion of permanent well casing and surrounding materials.
 - Analytical in progress.

Slug Tests:

- Well 699-52-55 Slug test report is in review. The test results indicate very low hydraulic conductivity conditions in this area (Figure 2, **Attachment 12**).
- Well 299-E33-345/C6226 redevelopment of this well development was completed June 9 and results indicated low hydraulic conductivity at this well location (Figure 1). Based on the low capacity of the well a slug test is being completed in place of the original pumping test.

Work Plan:

- Comment resolution requires minor changes to issue Rev 0 of DOE/RL-2007-18 "*RI/FS Work Plan for the 200-BP-5 GW OU*" and major changes to the DQO (WMP-28945) as discussed below.

200-BP-5 DQO Revision (WMP-28945 Rev 1):

Revision is focused on providing more detailed conceptual models and relating the conceptual models to the well placement locations. Areas identified for revision were the following:

- Section 1.4.3 and associated Appendix C: The revision has been completed and additional internal review was completed the week of June 12. The revisions included additional conceptual model figures for overlying waste sites and WMAs.
- Section 1.4.4 and associated Appendix D. The revision is approximately 70% complete and includes additional discussion and figures showing contaminant plumes to clarify transport and plume extent.
- Revision to DQO Section 1.10 and 7 will be completed next.

Meetings are being planned with EPA for review and comment after internal reviews have been completed for each section. Internal reviews include FH, PNNL, CHG and DOE.

Integration:

Working with CHG on DQO for WMA C.

Analyses for well 299-E33-205/C5989 are being integrated between CHG and FH.

Evaluation of sample investigation analytical results at UPR-86 was completed June 5.

Schedule Status: Behind schedule. The drilling schedule has slipped 3+ months due to delayed start this year, development of unplanned perched well, and completion problems for well 299-E33-345.

200-PO-1

(M-015-25C, 12/30/09 200-PO-1 OU RI/FS Phase II Report) Ecology

- Phase I Airborne EM Contract for the 600 Area along the Columbia River was awarded on April 3, 2008. The field crew arrived June 13, 2008 and began field acquisition on June 17, 2008. The purpose is to put the focus on geological controls on groundwater flow (**Attachment 13**).
- Waste Control Plan (DOE/RL-2004-18) update draft revision initiated March 1, 2008. Completed and was signed off on June 11, 2008.
- A TPA change notice (TPA-CN-205) for the 200-PO-1 OU Sampling and Analysis Plan (DOE/RL-2003-04, Rev. 1) is being signed off for page changes to address updates to the routine monitoring network in 200-PO-1 over the last two years.

Schedule Status: On schedule.

200-SC-1 & 200-LW-1 OU Group

200-SC-1

(M-15-40E, 12/31/10, Feasibility Study/Proposed Plan for 200-SC-1) EPA

- **Supplemental Characterization:**
 - **216-B55 Crib:** Re-sampling started May 12th and finished May 13th. Geophysical logging was completed May 14th. The borehole was decommissioned and samples were shipped for analysis on May 15.
 - **216-T-36 BH:** DOE-RL recommended to EPA that a characterization borehole not be drilled through the 216-T-36 crib. The recommendation was based on the weight of technical evidence that 216-T-36 is not a significant source of 200-ZP-1 groundwater contamination. The recommendation was prepared as described in the applicable SAP, which outlined a process to determine whether the characterization borehole was required. The recommendation was developed with the involvement and concurrence of the 200-ZP-1 groundwater project team. The characterization borehole was deleted from the applicable SAP through TPA Change Notice 221 (See Agreements and Issues List).

Schedule Status: On schedule.

200-LW-1/200-LW-2

(M-15-46B, 12/31/11, Feasibility Study/Recommended Remedy) Ecology

- **200-LW-1/2 Site-Specific Field-Sampling Plans (DOE/RL-2007-02-VOL II-ADD 2, Rev. 0):** Ecology had no comments on the draft SSSP submitted by DOE-RL. DOE-RL and Ecology approved the document and the Revision 0 document was issued May 29th.

Schedule Status: On schedule.

200-TW-1 & 200-PW-5 OU Group

200-TW-1 & 200-PW-5

(M-15-42D, 12/31/11, Feasibility Study/Proposed Plan for TW-1 & PW-5) EPA

- Waste Control Plan (SGW-37529) has been approved by EPA.

Schedule Status: On schedule.

200-TW-2 OU Group

200-TW-2

(M-15-42E, 12/31/11, Feasibility Study/Revised Recommended Remedy(ies) for TW-2) Ecology

- The site-specific field sampling plan (DOE/RL-2007-02-VOLII-ADD4) has been approved by Ecology.
- Waste Control Plan (SGW-37530) is in progress, draft should be submitted by 6/20/08.

Schedule Status: On schedule.

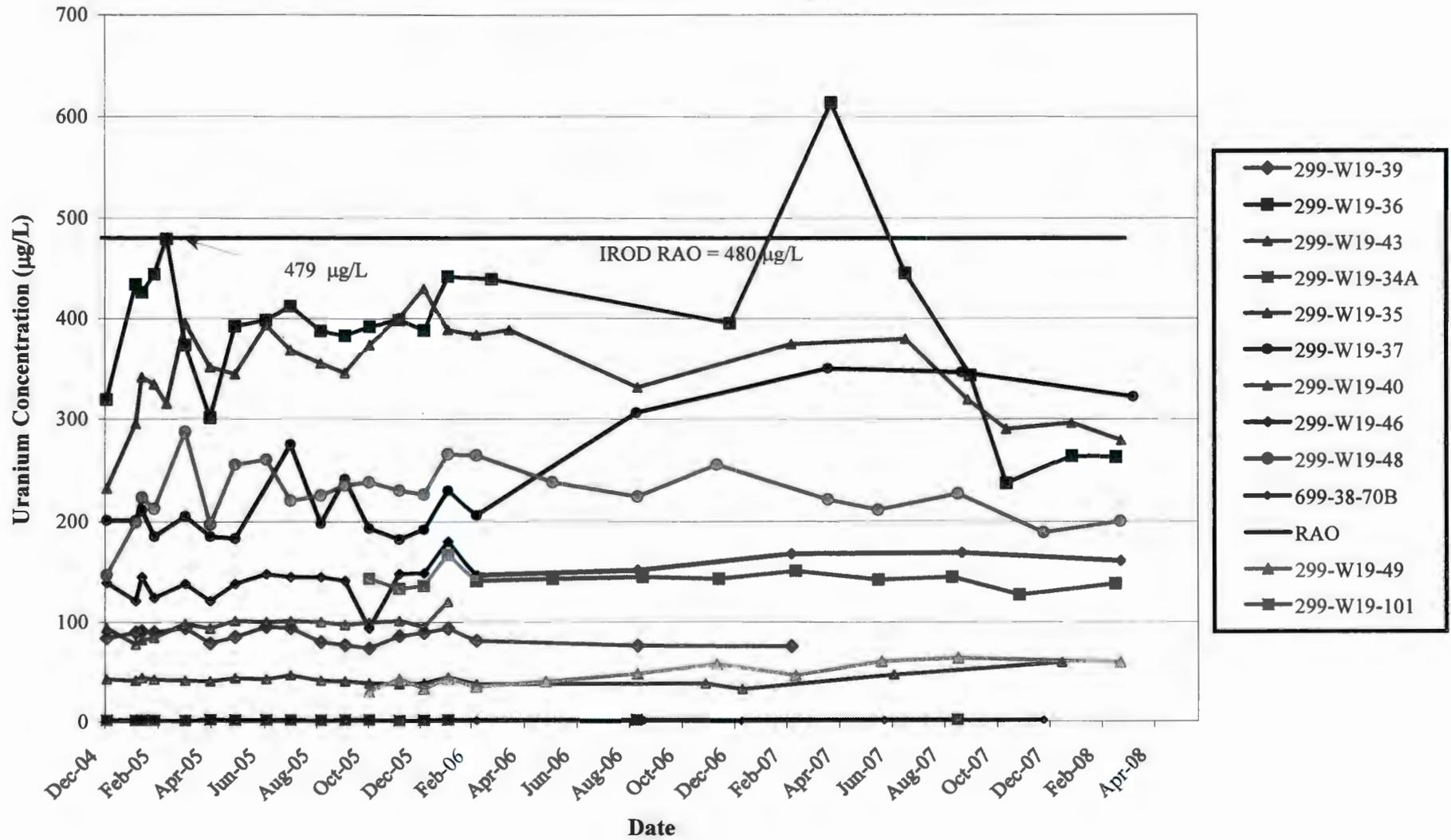
200-UR-1

200-UR-1 Ecology

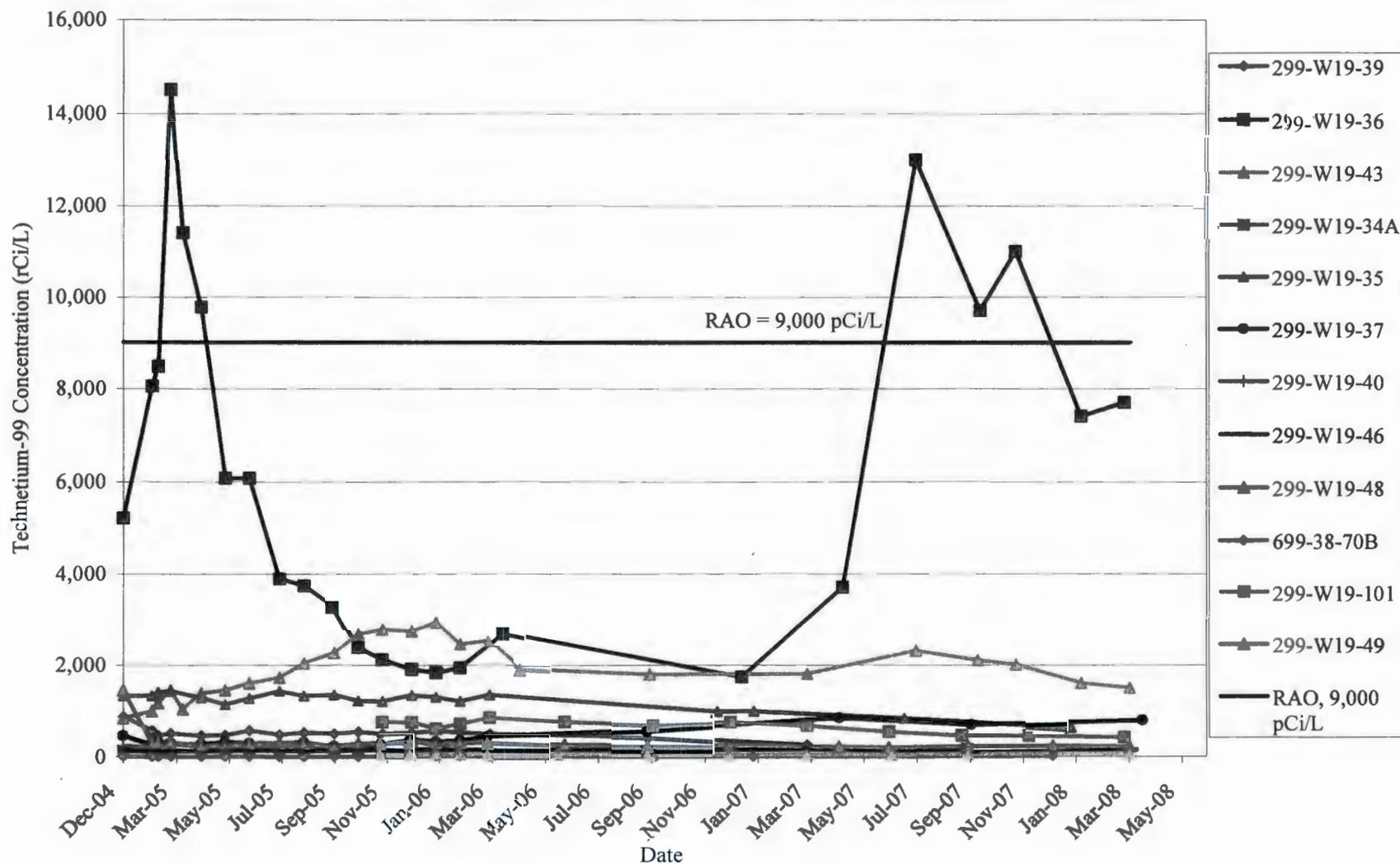
- BC Control Area
 - Radiological surveys for the Eastern section complete (**see Attachment 14**). Path forward: Move postings in FY08; and continue surveying West Section on a "contingency work" basis.
 - Draft DQA for soil samples and analyses completed.
 - Issued SOW for remaining BCCA tasks; will need to align with EE/CA R/T/D.
- West Lake DQO summary report
 - Ecology provided written comments May 16 and recommended initiating preparation of SAP June 5.
 - DOE concurred with initiating preparation of SAP.
- Other UR-1
 - Reclassification Forms in preparation for moving 12 sites from "No Action" to "Rejected," will be submitted to DOE by June 30, 2008.

Schedule Status: West Lake DQO and SAP twelve months behind DOE baseline.

200-UP-1, Uranium ($\mu\text{g/L}$)



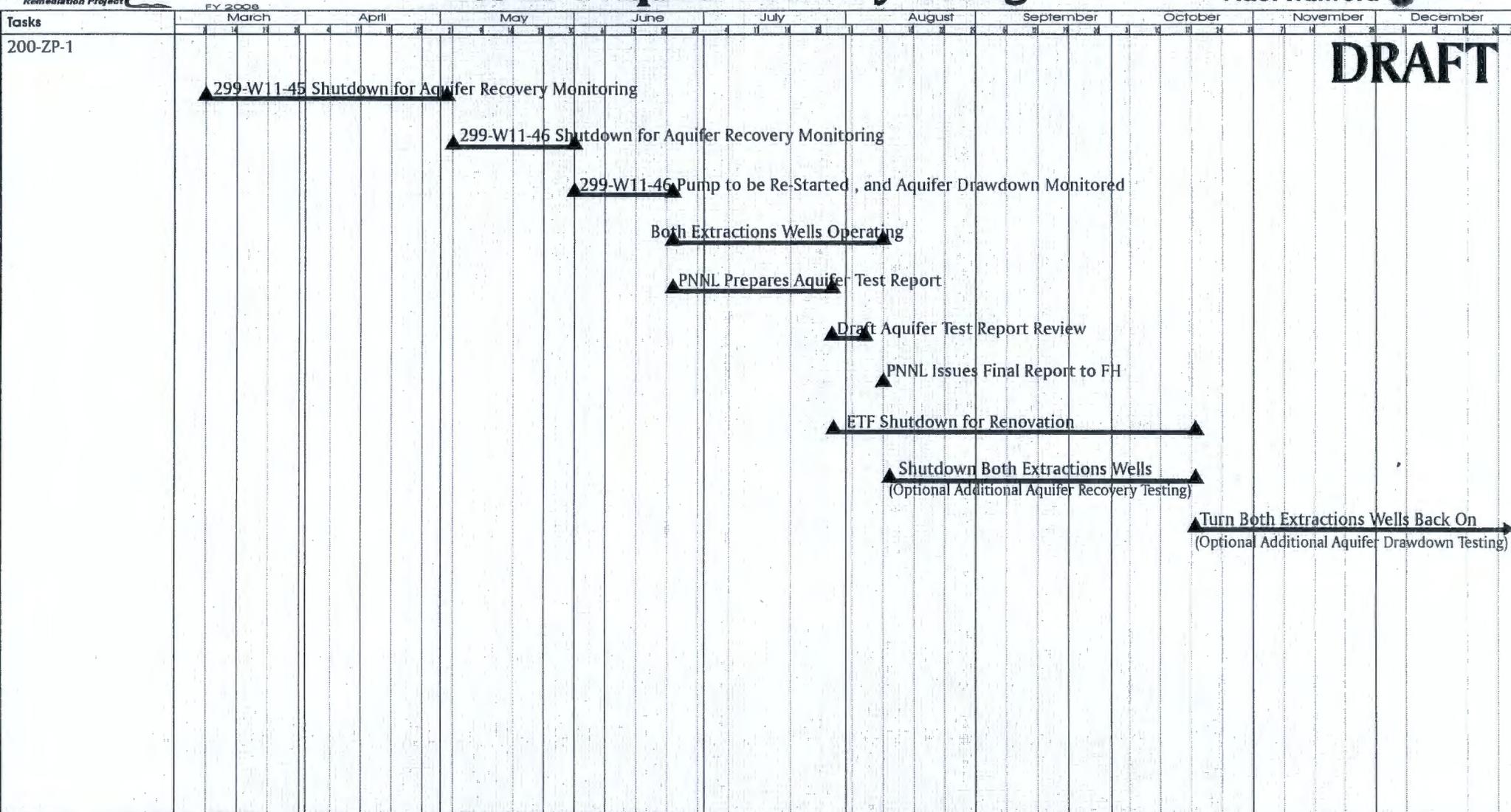
200-UP-1, Technetium-99 (rCi/L)





200-ZP-1 Aquifer Recovery Testing

Fluor Hanford Rev. DRAFT



Acronyms

Legend

- Key Personnel / Consulting
- Client / Sponsor
- Staff
- Other

Rev. DRAFT

200-PW-1 OU: 3 Narrow Diameter Vapor Extraction Wells

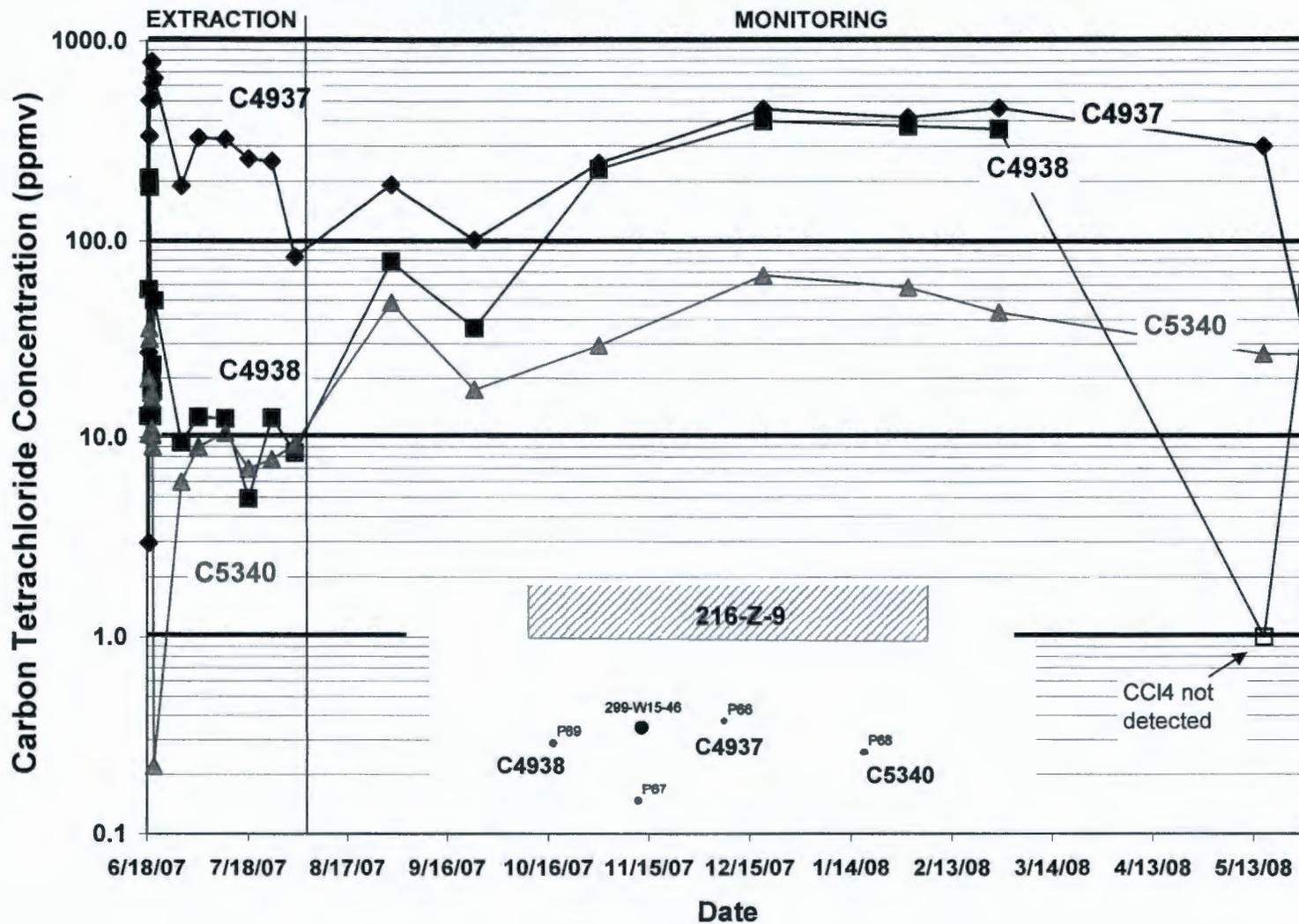


Figure 1: Wells 299-E33-205, 299-E33-340, 299-E33-341, 299-E33-342, and 299-E33-345 Location Map.

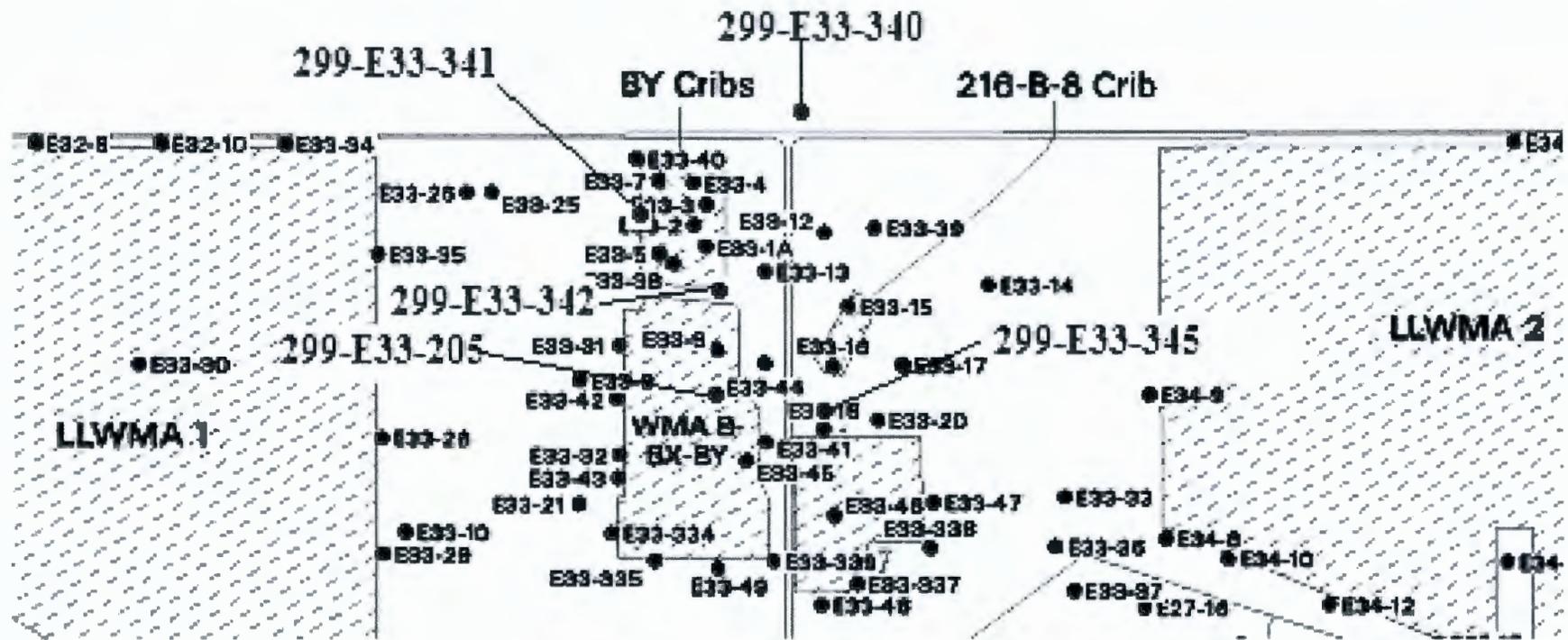
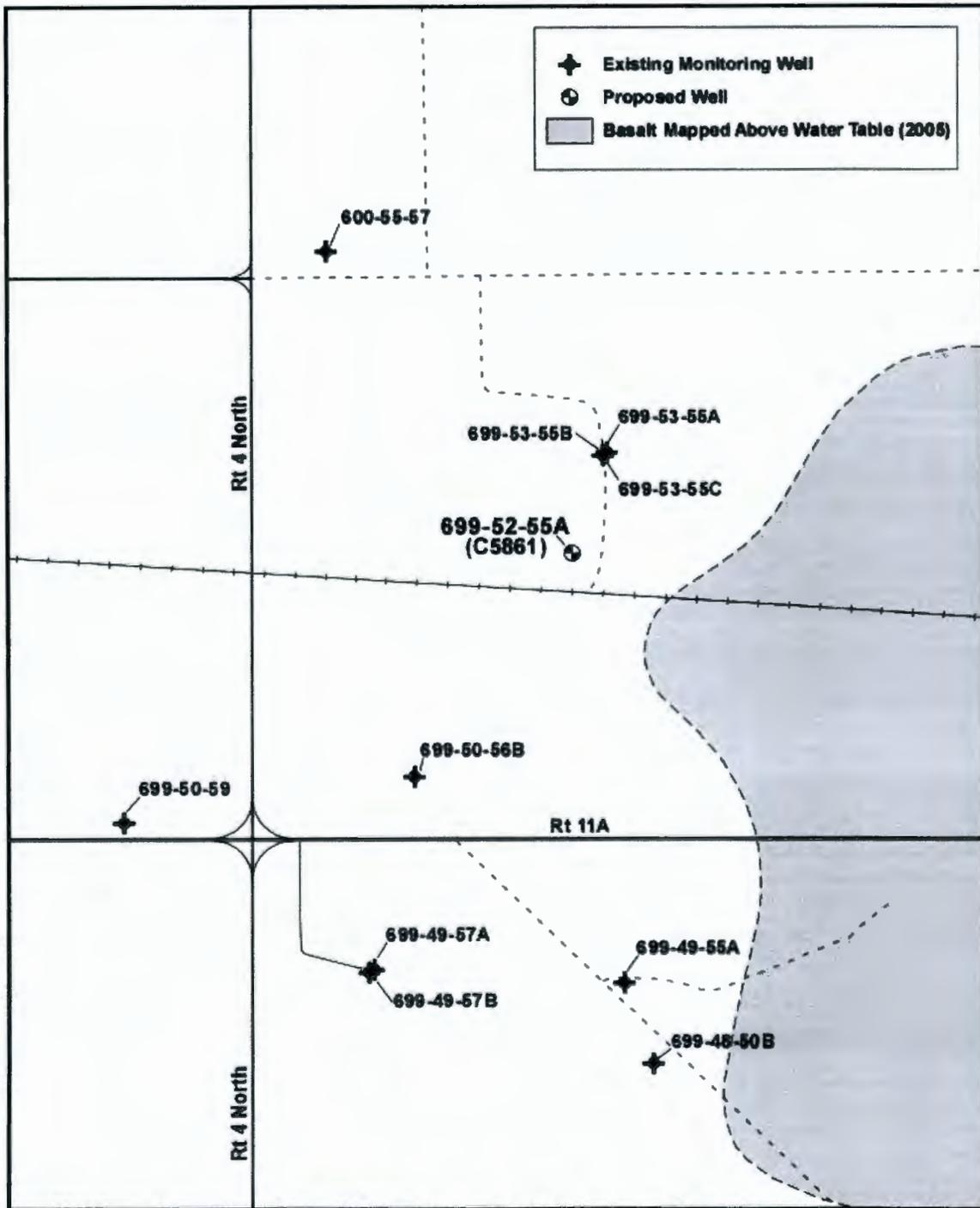
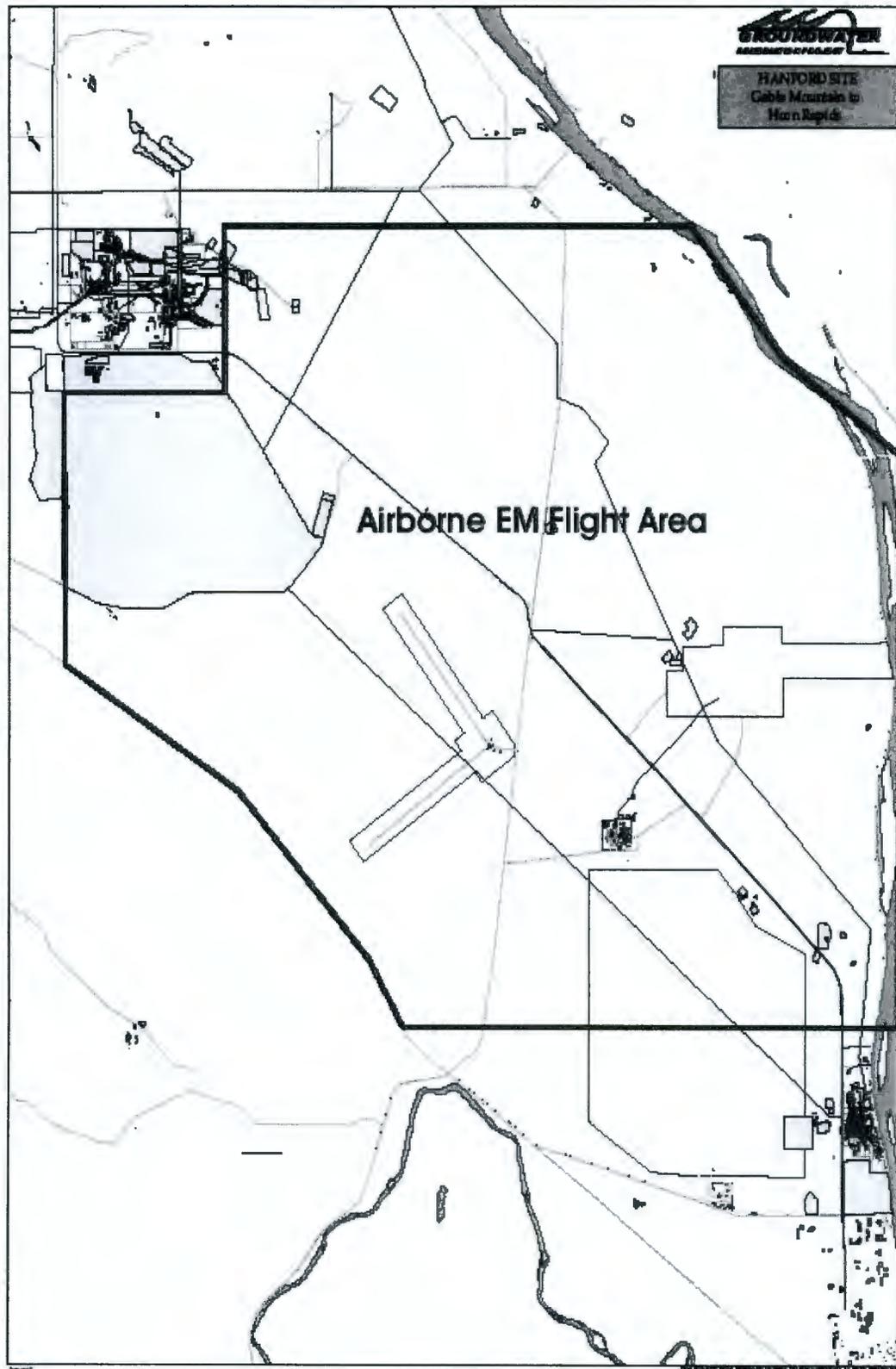


Figure 2: Well 699-52-55 Location Map.

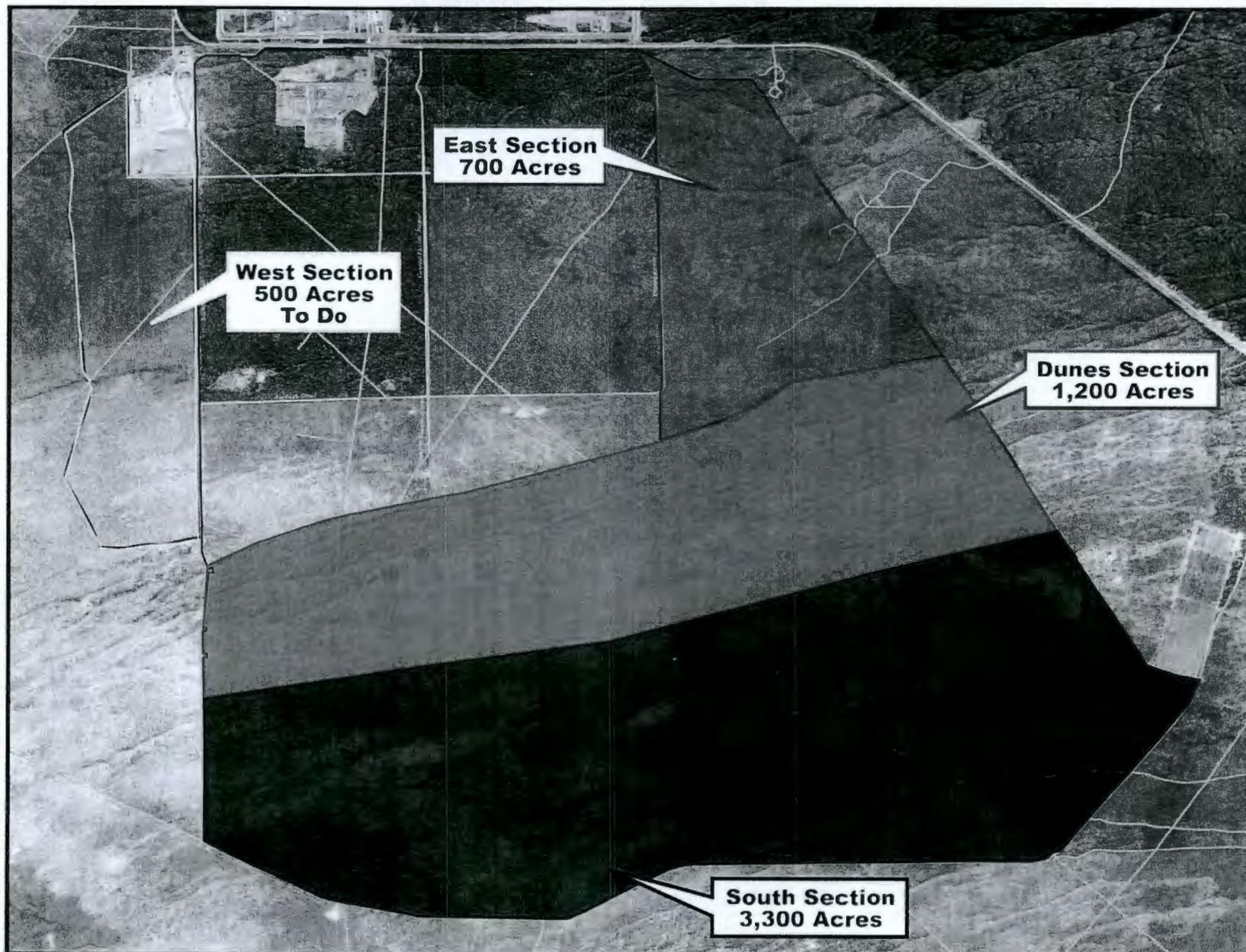




- Structure
- Storage and Tanks
- High Power
- Water Body

Issued May 20, 2002 10:00 AM

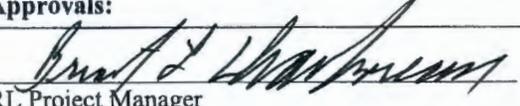
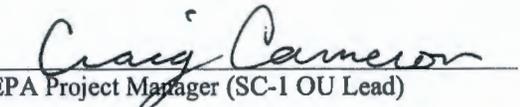
BCCA Downposting



Attachment 15, Figure 1



Change Notice for Modifying Approved Documents/ Workplans
In Accordance with the Tri-Party Agreement Action Plan,
Section 9.0, Documentation and Records

Change Number TPA-CN-221	Document Submitted Under Tri-Party Agreement Milestone N/A	Date: 06/___/08	
Document Number and Title: DOE/RL-2007-0, Rev. 0, Supplemental Remedial Investigation/Feasibility Study Work Plan for the 200 Area Central Plateau Operable Units, Volumes I and II		Date Document Last Issued: December 2007	
Originator: J. S. Decker		Phone: 376-4416 or 528-0808	
Description of Change: Delete supplemental characterization at 216-T-36 crib			
<p><u>B. L. Charboneau</u> and <u>C. Cameron</u> agree that the proposed change modifies an approved RL Lead Regulatory Agency</p> <p>workplan/document and will be processed in accordance with the Tri-Party Agreement Action Plan, Section 9.0, <i>Documentation and Records</i>, and not Chapter 12.0, <i>Changes to the Agreement</i>.</p> <ol style="list-style-type: none"> Volume I, Table 1-2, Supplemental Roll Up 2 through 7 – by Operable Unit, is revised to delete the “TBD” shallow characterization borehole for the 216-T-36 crib. Volume I, Table C-2, Supplemental Data Collection Activities by Operable Unit – Model Groups 2 through 7, is revised for the 216-T-36 crib per Attachment 1. Volume II is revised to delete Section AD1-3.0, 216-T-36, Crib Site-Specific Field-Sampling Plan. 			
Justification and Impacts of Change:			
<p>The referenced work plan states:</p> <p>Data from a borehole planned for the characterization of the 200-ZP-1 groundwater OU in this area will be used to help evaluate the potential for this crib to be contributing to groundwater contamination. If the groundwater well shows the indication of contaminant contribution from this site, then a shallow borehole will be drilled to acquire site specific information on nature and vertical extent within the crib. These data, along with the data from the groundwater well, would be used to better understand the current groundwater plume in the area and the protection of groundwater from contaminants remaining in the vadose zone</p> <p>This data evaluation was performed, reviewed with the regulatory agencies, and results indicate that the 216-T-36 crib is not a likely source of groundwater contamination in the area. Therefore, the references to drilling and sampling a shallow borehole in the 216-T-36 crib are being eliminated from the referenced document.</p>			
Approvals:			
 RL Project Manager	6-9-2008 Date	<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Disapproved
 EPA Project Manager (SC-1 OU Lead)	6/9/08 Date	<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Disapproved
	Date	<input type="checkbox"/> Approved	<input type="checkbox"/> Disapproved



**Change Notice for Modifying Approved Documents/ Workplans
In Accordance with the Tri-Party Agreement Action Plan,
Section 9.0, *Documentation and Records***

Attachment 1



Change Notice for Modifying Approved Documents/ Workplans
 In Accordance with the Tri-Party Agreement Action Plan,
 Section 9.0, Documentation and Records

DOE/RL-2007-02 REV 0

Table C-2. Supplemental Data Collection Activities by Operable Unit - Model Groups 2 through 7. (26 Pages)

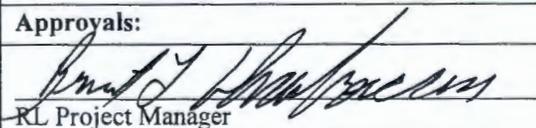
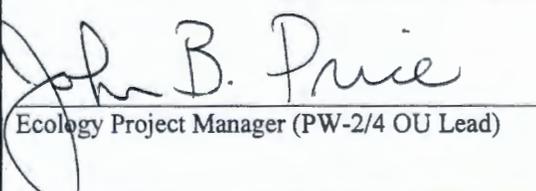
Waste Site	Operable Unit	Model #	Deep Boreholes	Existing Data						Proposed Supplemental Data Collection Activities						Rationale for Proposed Supplemental Data Collection Activities
				Shallow Boreholes	Drive Points	Test Pits	Geophysical Logging of Existing Boreholes	Surface Sampling	Geophysical Resistivity Characterization	Deep Boreholes	Shallow Boreholes	Drive Points	Test Pits	Geophysical Logging of Existing Boreholes	Geophysical Resistivity Characterization	
216-S-6	200-SC-1	6										1			Yes	The analogous relationship identified in the Draft A 200-CW-5/2/4/200-SC-1 FS between 216-U-10 (representative site) and 216-S-6 is somewhat uncertain; while inventory, geophysical logs, and analogous relationships may support shallow vadose zone decision making, geophysical resistivity characterization surveys would provide indication of deeper zones of elevated conductivity that may be associated with contamination. A shallow borehole would help correlate with the geophysical resistivity characterization, would provide information on pore water contamination, and would support the protection of groundwater evaluation for both the 216-S-6 and 216-S-5 Criba. Supplemental data would provide site-specific information on remaining inventory of uranium and nitrate in the soil column that may impact groundwater.
216-T-36	200-SC-1	6						Yes		1*					Complete	Existing data from site 216-T-26 will be used to evaluate this site Note: This site was listed as TBD for a shallow borehole in Rev. 0 of this document. Data from boreholes surrounding 216-T-38, including two recent 200-ZP-1 boreholes (299-W10-32 and 299-W10-33), were evaluated to determine the potential for this crib to contribute to groundwater contamination, e.g., To-99. The analytical data, process history, subsurface geology, and geophysical logging data evaluated indicate that this crib is not a likely source of groundwater contamination in the area. Therefore, the TBD shallow borehole was deleted.
UPR-200-E-19	200-SC-1	6													Yes (opportunistic)	See 216-A-6; this unplanned release site is associated with and will be addressed with 216-A-6
UPR-200-E-21	200-SC-1	6													Yes (opportunistic)	See 216-A-6; this unplanned release site is associated with and will be addressed with 216-A-6.

*Send approved form to FH TPAI, H8-12, and the Administrative Record, H6-08

Attachment 16, Figure 1



Change Notice for Modifying Approved Documents/ Workplans
In Accordance with the Tri-Party Agreement Action Plan,
Section 9.0, Documentation and Records

Change Number	Document Submitted Under Tri-Party Agreement Milestone	Date:		
TPA-CN-225	N/A	06/06/08		
Document Number and Title: DOE/RL-2007-2, Rev. 0, Site-Specific Field Sampling Plans for the 216-A-5 Crib and 216-S-1 & 2 Cribs, 200-PW-2/4 Operable Unit (Addendum 5)		Date Document Last Issued: March 2008		
Originator: P. M. Rogers		Phone: 376-5807		
Description of Change: Delete installation of two dedicated downhole electrode probes from 216-A-5 Crib Sampling Plan				
<p><u>B. L. Charboneau</u> and <u>J. Price</u> agree that the proposed change modifies an approved RL Lead Regulatory Agency</p> <p>workplan/document and will be processed in accordance with the Tri-Party Agreement Action Plan, Section 9.0, <i>Documentation and Records</i>, and not Chapter 12.0, <i>Changes to the Agreement</i>.</p> <p>1. Revise Table AD5-1, 216-A-5 Crib Sampling Plan, by deleting the requirement to install two dedicated downhole electrode probes in the deep borehole in the 216-A-5 crib. The requirement is found on page AD5-6. Table AD5-1 is attached and reflects the deletion by strike-out of the relevant text.</p>				
Justification and Impacts of Change:				
The probes would have been used for application of Electrical Resistivity Characterization (ERC) technology. Use of ERC technology in the area south of PUREX is not expected to be effective, given the nature of the waste and subsurface interference.				
Approvals:				
 RL Project Manager	<u>6-9-2008</u> Date	<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Disapproved	
 Ecology Project Manager (PW-2/4 OU Lead)	<u>6-10-2008</u> Date	<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Disapproved	
	_____ Date	<input type="checkbox"/> Approved	<input type="checkbox"/> Disapproved	

Attachment 16, Figure 2

Table AD5-1. 216-A-5 Crib Sampling Plan. (3 Pages)

Sample Collection Methodology	Sample Location	Maximum Depth of Investigation	Sample Interval Depth (ft bgs) ^a	Analyte List ^b	Physical Properties	
					Sample Interval	Parameters
One water sample collected from top of aquifer in bottom of characterization borehole ^c	Bottom of deep borehole located center of crib.	325 ft bgs or TD	1 groundwater sample near the water table at TD	200-PO-1 OU COPC analytes for groundwater are presented in DOE/RL-2007-31, Table A3-2.	N/A	N/A
Number of split-spoon samples ^d	12	N/A	N/A	N/A	N/A	N/A
Approximate number of field quality-control samples ^e	2	N/A	N/A	N/A	N/A	N/A
Approximate number of sediment grab samples collected	59	N/A	N/A	N/A	N/A	N/A
Total number of soil samples (split-spoon and grab samples) initially analyzed ^d	27	N/A	N/A	N/A	N/A	N/A
Approximate number of groundwater samples analyzed	1	N/A	N/A	N/A	N/A	N/A
Non-Sample Data Collection Methodology	Sample Location	Maximum Depth of Investigation	Sample Interval Depth (ft bgs) ^a	Analyte List ^b	Physical Properties	
					Sample Interval	Parameters
Two dedicated downhole electrodes	In deep borehole	Mid-vadose depth in lower Hanford Interval.	One probe each at -180 and -285 ft bgs	N/A	N/A	N/A

Attachment 16, Figure 4

Table AD5-1. 216-A-5 Crib Sampling Plan. (3 Pages)

Sample Collection Methodology	Sample Location	Maximum Depth of Investigation	Sample Interval Depth (ft bgs) ^a	Analyte List ^b	Physical Properties	
					Sample Interval	Parameters
Downhole high-resolution spectral gamma and neutron moisture geophysical logging	Log the direct-push borehole and the deep borehole	To TD	Surface to TD in each borehole	Evaluate for manmade gamma-emitting radioisotopes and anomalous vadose-zone moisture.	N/A	N/A

^aActual sampling depths may vary depending on the amount of backfill/overburden used in interim stabilization at the waste site, field-screening results, and varying subsurface conditions.

^bSee Volume 1, Appendix A, Tables A2-1, A2-2, A2-3, A2-5, and A3-2 for detection limits and other analytical parameters.

^cOne groundwater sample will be collected in support of the 200-PO-1 Groundwater Operable Unit and analyzed for OU specific COPCs.

^dTotal number of soil samples analyzed includes 12 split-spoon samples and 15 grab samples. Determination of which subset of grab samples to analyze will be based on the new push and borehole geologic and geophysical log data, and health and safety and radiological screening info.

^eOne duplicate and one equipment blank.

DOE/RL-2007-31, *Remedial Investigation/Feasibility Study Work Plan for the 200-PO-1 Groundwater Operable Unit*.

bgs = below ground surface.

COPC= contaminant of potential concern.

N/A = not applicable.

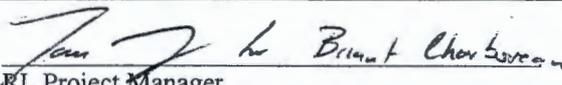
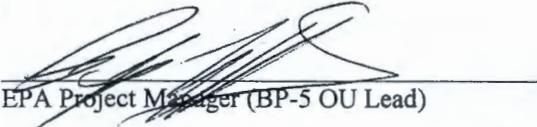
OU = operable unit.

TD = total depth of borehole.

Attachment 17, Figure 1



Change Notice for Modifying Approved Documents/ Workplans
In Accordance with the Tri-Party Agreement Action Plan,
Section 9.0, *Documentation and Records*

Change Number TPA-CN-206	Document Submitted Under Tri-Party Agreement Milestone N/A	Date: 06/___/08	
Document Number and Title: DOE/RL-2003-30, Revision 3, <i>Waste Control Plan for the 200-BP-5 Operable Unit</i>		Date Document Last Issued: October 2007	
Originator: Greg S. Thomas		Phone: 373-3907	
Description of Change: Add two monitoring wells and an alternate monitoring well at the Liquid Effluent Retention Facility (LERF). Add one replacement well at Waste Management Area B-BX-BY (WMA B-BX-BY).			
<p><u>B. Charboneau</u> and <u>R. Lobos</u> agree that the proposed change modifies an approved RL Lead Regulatory Agency workplan/document and will be processed in accordance with the Tri-Party Agreement Action Plan, Section 9.0, <i>Documentation and Records</i>, and not Chapter 12.0, <i>Changes to the Agreement</i>.</p> <p>Attachment 1 of the above referenced plan has been modified to add two monitoring wells (299-E26-77 & 299-E26-78) and an alternate monitoring well (299-E26-79) at the LERF and also to add one replacement well (299-E33-345) at WMA B-BX-BY.</p> <p>A location plat is provided for the LERF wells. Revised well lists (Table 1, page 13, and Table 2, page 15, of Attachment 1) are also provided with the changes identified in shaded text.</p>			
Justification and Impacts of Change:			
<p>Two monitoring wells are to be installed at the LERF because the water table has declined causing existing wells to go dry. An alternate well location is provided as a contingency. The well at WMA B-BX-BY is drilled adjacent to the initial well (299-E33-344) which was completed at a depth within a perching interval in the vadose zone instead of in the unconfined aquifer as planned. These changes will be reflected in the next revision to the 200-BP-5 Waste Control Plan.</p>			
Approvals:			
 RL Project Manager	6/16/08 Date	<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Disapproved
 EPA Project Manager (BP-5 OU Lead)	6/16/08 Date	<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Disapproved

Location Plat for New Wells Near LERF in 200-E

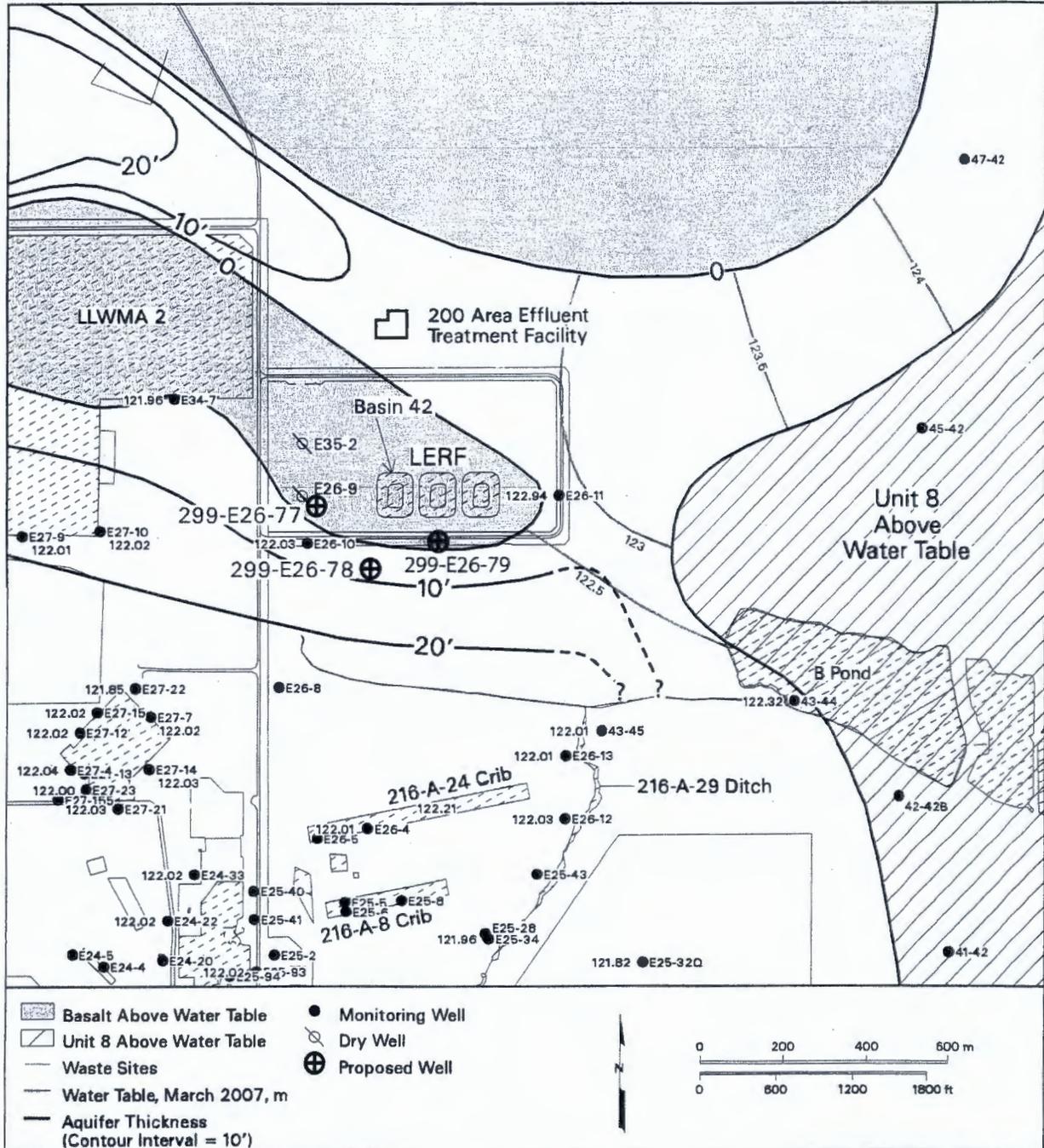


Table 1. 200-BP-5 Operable Unit Groundwater Well List
(from Revised Monitoring Network – SAP). (2 sheets)

216-B-5 Reverse Well and B-Plant		
299-E28-2	299-E28-8	299-E28-24
299-E28-5	299-E28-17	299-E28-25
299-E28-6	299-E28-23	
216-BY Cribs, Waste Management Area B-BX-BY		
299-E28-26	299-E33-40	699-52-55A
299-E28-27	299-E33-41	699-52-55B
299-E32-4	299-E33-42	699-53-55A
299-E32-6	299-E33-43	699-53-55B
299-E32-9	299-E33-44	699-53-55C
299-E32-10	299-E33-46	699-55-55
299-E-33-5	299-E33-50	699-55-60A
299-E33-7	299-E33-205	699-55-57
299-E33-12	299-E33-338	699-57-59
299-E33-13	299-E33-340	699-59-58
299-E33-14	299-E33-341	699-60-60
299-E33-15	299-E33-342	699-61-62
299-E33-16	299-E33-343	699-61-66
299-E33-18	299-E33-344	699-64-62
	299-E33-345*	
299-E33-26	699-47-60	699-65-50
299-E33-28	699-48-50B	699-65-72
299-E33-30	699-49-55A	699-66-58
299-E33-34	699-49-55B	699-66-64
299-E33-35	699-49-57A	699-70-68
299-E33-38	699-49-57B	699-72-73
299-E33-39	699-50-56	699-73-61
Waste Management Area C		
299-E27-7	299-E27-14	299-E27-15
	299-E27-155	
216-B-3 Pond		
699-43-40	699-45-42	

* Replacement for 299-E33-344

Table 2. 200-BP-5 Operable Unit Groundwater Well Supplemental List
(from Appendix B – SAP). (9 sheets)

Well Numbers	Sampling Project
299-E24-8	Surveillance Central
299-E26-6	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
299-E26-8	Surveillance Basalt
299-E26-9	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
299-E26-10	LERF, Surveillance Central
299-E26-11	LERF, Surveillance Central
299-E26-77	LERF, Surveillance Central
299-E26-78	LERF, Surveillance Central
299-E26-79	LERF, Surveillance Central*
299-E27-4	W/SW of SST C
299-E27-5	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
299-E27-7	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)
299-E27-8	B-63, LLBG 2, LLBG 2-PA
299-E27-9	B-63, LLBG 2, LLBG 2-PA
299-E27-10	Surveillance Central, LLBG 2, LLBG 2-PA
299-E27-11	B-63, LLBG 2, LLBG 2-PA
299-E27-12	SST C
299-E27-13	SST C
299-E27-16	B-63
299-E27-17	B-63, LLBG 2, LLBG 2-PA, Surveillance Central
299-E27-18	B-63, Surveillance Central
299-E27-19	B-63
299-E27-21	S of SST C
299-E27-22	NE of SST C
299-E27-23	SW of SST C
299-E28-4	Appendix A wells from the <i>Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit</i> (DOE/RL-2001-49)

* Alternate location



**Change Notice for Modifying Approved Documents/ Workplans
In Accordance with the Tri-Party Agreement Action Plan,
Section 9.0, Documentation and Records**

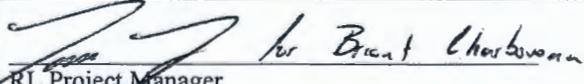
Change Number	Document Submitted Under Tri-Party Agreement Milestone <u>N/A</u>	Date:		
TPA-CN-205		06/___/08		
Document Number and Title: DOE/RL-2003-4, Revision 1, Sampling and Analysis Plan for the 200-PO-1 Operable Unit		Date Document Last Issued: August 2005		
Originator: G. D. Cummins		Phone: 372-2484		
Description of Change: Amend Table 2-1, Sampling and Analysis Schedule for 200-PO-1 Groundwater Operable Unit Near-Field Wells, Table 2-2, Sampling and Analysis Schedule for 200-PO-1 Groundwater Operable Unit Far Field Wells and Table A.1, Sampling and Analysis Schedule for Supplemental Wells.				
<p><u>B. L. Charboneau</u> and <u>J. Price</u> agree that the proposed change modifies an approved RL Lead Regulatory Agency</p> <p>workplan/document and will be processed in accordance with the Tri-Party Agreement Action Plan, Section 9.0, <i>Documentation and Records</i>, and not Chapter 12.0, <i>Changes to the Agreement</i>.</p> <p>Table 2-1, Sampling and Analysis Schedule for 200-PO-1 Groundwater Operable Unit Near-Field Wells, Table 2-2, Sampling and Analysis Schedule for 200-PO-1 Groundwater Operable Unit Far Field Wells and Table A.1, Sampling and Analysis Schedule for Supplemental Wells are amended to reflect changes to monitoring locations, frequency and analytes. Measurement of groundwater levels is also added. The changes to Table 2-1, Table 2-2 and Table A.1 are highlighted with gray shading.</p>				
Justification and Impacts of Change:				
<p>The data gathered under this sampling and analysis plan will be used to help satisfy the requirements of the <i>Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA)</i>, 40 CFR 300.430(b), "Remedial Investigation/Feasibility Study and Selection of Remedy," "Scoping," and to fulfill site-wide surveillance monitoring requirements under the <i>Atomic Energy Act of 1954 (AEA)</i>, as implemented under DOE O 450.1, <i>Environmental Protection Program</i>.</p>				
Approvals:				
 <u>Brent Charboneau</u> RL Project Manager		<u>6/16/08</u> Date	<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Disapproved
 <u>John B. Price</u> Ecology Project Manager (PO-1 OU Lead)		<u>6-18-2008</u> Date	<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Disapproved
		_____ Date	<input type="checkbox"/> Approved	<input type="checkbox"/> Disapproved

Table 2-1. Sampling and Analysis Schedule for 200-PO-1 Groundwater Operable Unit Near-Field Wells. (3 Pages)

Well ID	Well Number	Co-Sample	Comments	WAC Compliant	Contaminants of Concern							Supporting Constituents							
					Arsenic	Chromium, Manganese, and Vanadium	Iodine-129	Nitrate	Strontium-90	Technetium-99	Tritium	Specific Conductance ^a	Temperature ^a	Turbidity ^a	Gross Alpha	Anions ^b	Gross Beta	Metals ^c	Uranium
200-PO-1 Near-Field Wells																			
A5878	299-E16-2			N/1960	A	A	A	A	A		A	A	A	A	A	A	A	A	
A4728	299-E17-1	RCRA-PUREX		N/1955	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
A4730	299-E17-12			N/1986	A	A	A	A	A		A	A	A	A	A	A	A	A	
A4731	299-E17-13			N/1986	A	A	A	A	A		A	A	A	A	A	A	A	A	
A4732	299-E17-14	RCRA-PUREX		C/1988	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
A4734	299-E17-16	RCRA-PUREX		C/1988	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
A4736	299-E17-18	RCRA-PUREX		C/1988	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
A4737	299-E17-19	RCRA-PUREX		C/1988	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
C3827	299-E17-23	IDF		C/2002	A	A	A	A			A	A	A	A	A	A	A	A	
C3926	299-E17-25	IDF		C/2002	A	A	A	A			A	A	A	A	A	A	A	A	
A4743	299-E18-1	IDF		C/1988	A	A	A	A			A	A	A	A	A	A	A	A	
A4747	299-E23-1			N/1948	A	A	A	A			A	A	A	A	A	A	A	A	
A4751	299-E24-16	RCRA-PUREX		C/1988	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
A4753	299-E24-18	RCRA-PUREX		C/1988	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
A4756	299-E24-20	RCRA-A-AX		C/1991	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
C4123	299-E24-22	RCRA-A-AX		C/2003	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
C5301	299-E24-23			C/2007	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
C4257	299-E24-33	RCRA-A-AX		C/2004	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
A5899	299-E24-5			N/1956	A	A	A	A			A	A	A	A	A	A	A	A	
A6031	299-E25-17	RCRA-PUREX		N/1976	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
A4764	299-E25-18			N/1976	A	A	A	A	A		A	A	A	A	A	A	A	A	
A4765	299-E25-19	RCRA-PUREX		N/1976	A	A	A	A	A	A	A	A	A	A	A	A	A	A	

Table 2-1. Sampling and Analysis Schedule for 200-PO-1 Groundwater Operable Unit Near-Field Wells. (3 Pages)

Well ID	Well Number	Co-Sample	Comments	WAC Compliant	Contaminants of Concern							Supporting Constituents							
					Arsenic	Chromium, Manganese, and Vanadium	Iodine-129	Nitrate	Strontium-90	Technetium-99	Tritium	Specific Conductance ^a	Temperature ^a	Turbidity ^a	Gross Alpha	Anions ^b	Gross Beta	Metals ^c	Uranium
A4766	299-E25-2	RCRA-A-AX		N/1955	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
A4767	299-E25-20			N/1976	A	A	A	A	A		A	A	A	A	A	A	A	A	
A6032	299-E25-22			N/1983	A	A	A	A	A		A	A	A	A	A	A	A	A	
A4773	299-E25-28	RCRA-A-29	Deep unconfined	N/1986	A	A	A	A			A	A	A	A	A	A	A	A	
A4774	299-E25-29P		Piezometer	N/Unkn onwn	A	A	A	A			A	A	A	A	A	A	A	A	
A4775	299-E25-29Q		Piezometer	N/Unkn onwn	A	A	A	A			A	A	A	A	A	A	A	A	
C6542	299-E25-236	RCRA-A-AX		C/2008	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
A6024	299-E25-3			N/1954	A	A	A	A	A		A	A	A	A	A	A	A	A	
A4779	299-E25-32P	RCRA-A-29	Piezometer	C/1988	A	A	A	A			A	A	A	A	A	A	A	A	
A4780	299-E25-32Q		Piezometer	C/1988	A	A	A	A			A	A	A	A	A	A	A	A	
A4782	299-E25-34	RCRA-A-29		C/1988	A	A	A	A			A	A	A	A	A	A	A	A	
A4783	299-E25-35	RCRA-A-29		C/1988	A	A	A	A			A	A	A	A	A	A	A	A	
A4784	299-E25-36			C/1988	A	A	A	A	A		A	A	A	A	A	A	A	A	A
A4785	299-E25-37			C/1989	A	A	A	A			A	A	A	A	A	A	A	A	
A4789	299-E25-40	RCRA-A-AX		C/1989	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
A4790	299-E25-41	RCRA-A-AX		C/1989	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
A4791	299-E25-42			C/1991	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
A4792	299-E25-43			C/1991	A	A	A	A			A	A	A	A	A	A	A	A	
A5448	299-E25-44			C/1992	A	A	A	A			A	A	A	A	A	A	A	A	
A4794	299-E25-47			C/1992	A	A	A	A			A	A	A	A	A	A	A	A	
A4796	299-E25-6		Add gamma scan	N/1956	A	A	A	A	A		A	A	A	A	A	A	A	A	

Table 2-1. Sampling and Analysis Schedule for 200-PO-1 Groundwater Operable Unit Near-Field Wells. (3 Pages)

Well ID	Well Number	Co-Sample	Comments	WAC Compliant	Contaminants of Concern							Supporting Constituents							
					Arsenic	Chromium, Manganese, and Vanadium	Iodine-129	Nitrate	Strontium-90	Technetium-99	Tritium	Specific Conductance ^a	Temperature ^a	Turbidity ^a	Gross Alpha	Anions ^b	Gross Beta	Metals ^c	Uranium
			for 2 years																
C4122	299-E25-93	RCRA-A-AX		C/2003	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
C4665	299-E25-94	RCRA-A-AX		C/2004	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
C6542	299-E25-236	RCRA-A-AX	New WMA-A-AX wells. Replaces 299-E25-46	C/2008	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
A4804	299-E26-4			N/1958	A	A	A	A	A		A	A	A	A	A	A	A	A	
B2822	699-37-47A	RCRA-PUREX		C/1996	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
A5150	699-39-39			N/1970	A	A	A	A			A	A	A	A	A	A	A	A	
A5162	699-41-42			C/1992	A	A	A	A			A	A	A	A	A	A	A	A	
A5167	699-42-40A			N/1981	A	A	A	A			A	A	A	A	A	A	A	A	
A5171	699-42-42B	RCRA-B-Pond	Confined Ringold	C/1988	A	A	A	A			A	A	A	A	A	A	A	A	
A5180	699-43-45	RCRA-A-29, B-Pond		C/1989	A	A	A	A			A	A	A	A	A	A	A	A	
A5185	699-44-39B	RCRA-B-Pond		C/1992	A	A	A				A	A	A	A	A	A	A	A	

^aField measurement.

^bAnions - Analytes include but not limited to nitrate.

^cMetals - Analytes include but not limited to arsenic, chromium, manganese, and vanadium. Measured in *both* filtered and unfiltered samples in fiscal year 2008 *only* (see Section 2.3).

A = To be sampled annually.

C = Well construction is compliant with WAC 173-160 resource protection requirements, includes year of construction if available.

N = Well construction is not compliant with WAC 173-160 resource protection requirements, includes year of construction if available.

WAC 173-160, "Minimum Standards for Construction and Maintenance of Wells."

IDF = Integrated Disposal Facility.

RCRA = Resource Conservation and Recovery Act of 1976.

PUREX = plutonium-extraction.

WAC = Washington Administrative Code.

Table 2-2. Sampling and Analysis Schedule for 200-PO-1 Groundwater Operable Far-Field Wells. (6 Pages)

Well ID	Well or Aquifer Tube Name	Co-Sample	Comments	WAC Compliant ^a	Contaminants of Concern			Supporting Constituents																		
					I-129	Nitrate	Tritium	Specific Conductance ^b	Temperature ^b	Turbidity ^b	Gross Alpha	Anions ^c	Arsenic	Gross Beta	Hexavalent Chromium	Cyanide	Gamma ^d	Hg and Pb	ICP Metals ^e	Sr-90	Tc-99	Total Organic Carbon	Total Organic Halides	Uranium	VOA ^f	Other Constituents
200-PO-1 Far-Field Wells																										
BC Cribs																										
A4726	299-E13-14			N/1956		A	A	A	A	A	A	A		A	A		A	A	A			A				A
A5853	299-E13-5			N/1955		A	A	A	A	A	A	A		A	A		A	A	A			A				A
A5858	299-E13-11			N/1956		A	A	A	A	A	A	A		A	A		A	A	A			A				A
A5864	299-E13-19			N/1957		A	A	A	A	A	A	A		A	A		A	A	A			A				A
Southeast Transect																										
A5063	699-10-54A			N/1950		A	A	A	A	A	A	A		A		A		A	A						A	A
A8457	699-24-46			N/1958	A	A	A	A	A	A	A	A		A		A		A	A						A	A
A5101	699-26-33	RCRA-NRDWL		C/1986	A	A	A	A	A	A	A	A		A		A		A	A						A	A
A5123	699-31-31			N/1956	A	A	A	A	A	A	A	A		A		A		A	A						A	A
A5126	699-32-22A			N/1971	A	A	A	A	A	A	A	A		A		A		A	A						A	A
A5127	699-32-43			N/1968	A	A	A	A	A	A	A	A		A		A		A	A						A	A
A5159	699-41-23			N/1948	A	A	A	A	A	A	A	A		A		A		A	A						A	A
A5197	699-46-21B			N/1955	A	A	A	A	A	A	A	A		A		A		A	A						A	A
River Transect																										
A5065	699-10-E12			N/1962		A	A	A	A	A	A	A		A		A		A	A						A	A
A9613	699-20-E12O			N/1961	A	A	A	A	A	A	A	A		A		A		A	A						A	A
A8646	699-41-1A			N/1979	A	A	A	A	A	A	A	A		A		A		A	A						A	A
A8726	699-46-4			N/1979	A	A	A	A	A	A	A	A		A		A		A	A						A	A
A5374	699-S3-E12			N/1960		A	A	A	A	A	A	A		A		A		A	A						A	A
A5370	699-S19-E13			N/1971		A	A	A	A	A	A	A		A		A		A	A						A	A

Table 2-2. Sampling and Analysis Schedule for 200-PO-1 Groundwater Operable Far-Field Wells. (6 Pages)

Well ID	Well or Aquifer Tube Name	Co-Sample	Comments	WAC Compliant ^a	Contaminants of Concern			Supporting Constituents																			
					I-129	Nitrate	Tritium	Specific Conductance ^b	Temperature ^b	Turbidity ^b	Gross Alpha	Anions ^c	Arsenic	Gross Beta	Hexavalent Chromium	Cyanide	Gamma ^d	Hg and Pb	ICP Metals ^e	Sr-90	Tc-99	Total Organic Carbon	Total Organic Halides	Uranium	VOA ^f	Other Constituents	Water Level ^g
A8114	499-S1-8J	400 Area	Water supply well	N/1985	A	A	A	A	A		A	A		A			A		A	A	A			A	A	NH ₄	A
A8252	699-12-4D			N/1982	T	T	T	T	T	T		T															T
A8260	699-13-1A			N/1973	T	T	T	T	T	T		T															T
B2540	699-13-3A	300-FF-5		C/1995		T	T	T	T	T		T															T
A5068	699-14-38			N/1958		T	T	T	T	T		T															T
A5073	699-17-5			N/1950	T	T	T	T	T	T		T															T
A5075	699-19-43			N/1950	T	T	T	T	T	T		T															T
A5080	699-20-20			N/1948	T	T	T	T	T	T		T															T
A9617	699-20-E12S		Deep unconfined ^h	N/1962		T	T	T	T	T		T															T
A8428	699-20-E5A			N/1976		T	T	T	T	T		T															T
A8438	699-21-6			N/1979	T	T	T	T	T	T		T															T
A5078	699-2-3			N/1950	T	T	T	T	T	T		T															T
A8443	699-22-35			C/1994	T	T	T	T	T	T		T															T
A5092	699-24-34C	SWL		C/1987	T	T	T	T	T	T		T															T
A5100	699-26-15A			N/1958	T	T	T	T	T	T		T															T
A5103	699-26-35A	RCRA-NRDWL, SWL		C/1986	T	T	T	T	T	T		T															T
B8077	699-2-6A			C/1997		A	A	A	A	A		A															A
A8122	699-2-7			N/1978		A	A	A	A	A		A															A
A5110	699-28-40			N/1956	T	T	T	T	T	T		T															T
A8490	699-29-4			N/1979	T	T	T	T	T	T		T															T
A8503	699-31-11			N/1980	T	T	T	T	T	T		T															T

Table 2-2. Sampling and Analysis Schedule for 200-PO-1 Groundwater Operable Far-Field Wells. (6 Pages)

Well ID	Well or Aquifer Tube Name	Co-Sample	Comments	WAC Compliant ^a	Contaminants of Concern			Supporting Constituents																			
					I-129	Nitrate	Tritium	Specific Conductance ^b	Temperature ^b	Turbidity ^b	Gross Alpha	Anions ^c	Arsenic	Gross Beta	Hexavalent Chromium	Cyanide	Gamma ^d	Hg and Pb	ICP Metals ^e	Sr-90	Tc-99	Total Organic Carbon	Total Organic Halides	Uranium	VOA ^f	Other Constituents	Water Level ^b
A5334	699-8-25			N/1971	T	T	T	T	T	T		T														T	
A5349	699-9-E2			N/1958	T	T	T	T	T	T		T														T	
A5366	699-S12-3			N/1950		T	T	T	T	T		T														T	
A5421	699-S19-E14			C/1991		T	T	T	T	T		T														T	
A5373	699-S3-25			N/1971		T	T	T	T	T		T														T	
A5405	699-S6-E14A			N/1962		T	T	T	T	T		T														T	
A9152	699-S6-E4A	300-FF-5		N/1948		T	T	T	T	T		T														T	
A9153	699-S6-E4B	300-FF-5		N/1953		T	T	T	T	T		T														T	
A5408	699-S8-19			N/1950		T	T	T	T	T		T														T	
Aquifer Sampling Tube Locations (Hanford Town Site)¹																											
B8395, 6	82-M, S		82-Medium, Shallow		A	A	A					A	A		A	A											
B8397	83-D		83-Deep; scheduled for replacement in FY 2008		A	A	A					A	A		A	A											
B8400, 1, 2	84-D, M, S		84-Deep, Medium, Shallow		A	A	A					A	A		A	A											
B8403, 4, 5	85-D, M, S		85-Deep, Medium, Shallow		A	A	A					A	A		A	A											
B8406, 7, 8	86-D, M, S		86-Deep, Medium, Shallow		A	A	A					A	A		A	A											

Table 2-2. Sampling and Analysis Schedule for 200-PO-1 Groundwater Operable Far-Field Wells. (6 Pages)

Well ID	Well or Aquifer Tube Name	Co-Sample	Comments	WAC Compliant ^a	Contaminants of Concern		Supporting Constituents															
					I-129	Nitrate	Tritium	Specific Conductance ^b	Temperature ^b	Turbidity ^b	Gross Alpha	Anions ^c	Arsenic	Gross Beta	Hexavalent Chromium	Cyanide	Gamma ^d	Hg and Pb	ICP Metals ^e	Sr-90	Tc-99	Total Organic Carbon

^a Includes year of construction if available.

^b Field measurement.

^c Anions - Analytes include but not limited to nitrate. For the transect wells, analytes include but not limited to nitrate, sulfate, chloride, nitrite, and fluoride.

^d Gamma Scan - Analytes include but not limited to cobalt-60.

^e Metals - Analytes include but not limited to chromium, manganese, and vanadium.

^f VOA - Analytes include but not limited to trichloroethene, 1,1-dichloroethene, 1,2-dichloroethene, tetrachloroethene, and vinyl chloride.

^g Triennial sampling next scheduled for fiscal year 2009.

^h PNNL-13021, *Water-Level Monitoring Plan for the Hanford Groundwater Monitoring Project*

ⁱ Aquifer tube sites may include multiple depths: deep (D), medium (M), and shallow (S). Each tube is sampled for field parameters if conditions permit. Laboratory samples are collected from the tube having the highest specific conductance >160 µS/cm. If conductivity of no tube exceeds that value, lab samples are not collected.

A = To be sampled annually.

C = Well construction is compliant with WAC 173-160 resource protection requirements.

N = Well construction is not compliant with WAC 173-160 resource protection requirements.

T = To be sampled triennially and scheduled for fiscal year 2007.

PNL-10817, *Hydrochemistry and Hydrogeologic Conditions Within the Hanford Site Upper Basalt Confined Aquifer System.*

WAC 173-160, "Minimum Standards for Construction and Maintenance of Wells."

NRDWL = Nonradioactive Dangerous Waste Landfill.

RCRA = *Resource Conservation and Recovery Act of 1976.*

SWL = Solid Waste Landfill.

VOA = volatile organic analysis.

WAC = *Washington Administrative Code.*

IDF = Integrated Disposal Facility.

TEDF = Treated Effluent Disposal Facility.

WMA = Waste Management Area.

Table A-1. Sampling and Analysis Schedule for Supplementary Wells. (4 Pages)

Well or Aquifer Tube Name	Co-Sample	Comments	Alkalinity	Alpha	Anions ^a	Arsenic	Beta	Hexavalent Chromium	Cyanide	Gamma	Hg and Pb	I-129	ICP Metals (filtered) ^b	Phenols	Sr-90	Tc-99	Total Dissolved Solids ^c	Total Organic Carbon	Total Organic Halides	Tritium	Uranium	VOA	Other Constituents
RCRA Treatment, Storage, and Disposal Units																							
Cribs																							
299-E17-1	200-PO-1				S								S	A									
299-E17-14	200-PO-1				Q								Q	A									
299-E17-16	200-PO-1				S								S	A									
299-E17-18	200-PO-1				S								S	A									
299-E17-19	200-PO-1				S								S	A									
299-E24-16	200-PO-1				Q								Q	A									
299-E24-18	200-PO-1				S								S	A									
299-E25-17	200-PO-1				S								S	A									
299-E25-19	200-PO-1				Q								Q	A									
299-E25-31	200-PO-1				S								S	A									
699-37-47A	200-PO-1				S								S	A									
Management Area A-AX^e																							
299-E24-20	200-PO-1		Q		Q								Q			Q	Q						
299-E24-22	200-PO-1	Top of confined	Q		Q								Q			Q	Q						
299-E24-33	200-PO-1		Q		Q								Q			Q	Q						
299-E25-2	200-PO-1		Q		Q								Q			Q	Q						
299-E25-40	200-PO-1		Q		Q								Q			Q	Q						
299-E25-41	200-PO-1		Q		Q								Q			Q	Q						
299-E25-93	200-PO-1	Top of confined	Q		Q								Q			Q	Q						
299-E25-94	200-PO-1		Q		Q								Q			Q	Q						
299-E25-236	200-PO-1		Q		Q								Q			Q	Q						
Ditch																							
299-E25-26			S		S								A	A			S	S					
299-E25-28	200-PO-1	Deep unconfined	S		S								A	A			S	S					
299-E25-32P	200-PO-1		S		S								A	A			S	S					
299-E25-34	200-PO-1		S		S								A	A			S	S					
299-E25-35	200-PO-1		S		S								A	A			S	S					
299-E25-48			S		S								A	A			S	S					
299-E26-12			S		S								A	A			S	S					
299-E26-13			S		S								A	A			S	S					
699-43-45	200-PO-1		S		S								A	A			S	S					

Pond

Table A-1. Sampling and Analysis Schedule for Supplementary Wells. (4 Pages)

Well or Aquifer Tube Name	Co-Sample	Comments	Alkalinity	Alpha	Anions ^a	Arsenic	Beta	Hexavalent Chromium	Cyanide	Gamma	Hg and Pb	I-129	ICP Metals (filtered) ^b	Phenols	Sr-90	Tc-99	Total Dissolved Solids ^c	Total Organic Carbon	Total Organic Halides	Tritium	Uranium	VOA	Other Constituents
699-42-42B	200-PO-1	Confined Ringold ^f	A	S	A		S						A	A				S	S				
699-43-44			A	S	A		S						A	A				S	S				
699-43-45	200-PO-1		A	S	A		S						A	A				S	S				
699-44-39B	200-PO-1		A	S	A		S						A	A				S	S				

bioactive Dangerous Waste Landfill

699-25-33A		Bottom unconfined			S								A	A				S	S			S	
699-25-34A					S								A	A				S	S			S	
699-25-34B					S								A	A				S	S			S	
699-25-34D					S								A	A				S	S			S	
699-26-33	200-PO-1				S								A	A				S	S			S	
699-26-34A					S								A	A				S	S			S	
699-26-34B					S								A	A				S	S			S	
699-26-35A	RCRA/SWL 200-PO-1				Q	Q							Q	A				Q	S			Q	
699-26-35C		Bottom unconfined			S								A	A				S	S			S	

and Disposal Facility

299-E17-26			S	S	S		S						S	S			S	S	S				
299-E17-22			S	S	S		S						S	S			S	S	S				
299-E17-23	200-PO-1		S	S	S		S						S	S			S	S	S				
299-E17-25	200-PO-1		S	S	S		S						S	S			S	S	S				
299-E18-1	200-PO-1		S	S	S		S						S	S			S	S	S				
299-E24-21			S	S	S		S						S	S			S	S	S				
299-E24-24			S	S	S		S						S	S			S	S	S				

WAC Sites

Waste Landfill (600 Area Central Landfill)

699-22-35	200-PO-1				Q	Q							Q					Q				Q	Q:Amm, COD, Col
699-23-34A					Q	Q							Q					Q				Q	Q:Amm, COD, Col
699-23-34B					Q	Q							Q					Q				Q	Q:Amm, COD, Col
699-24-33					Q	Q							Q					Q				Q	Q:Amm, COD, Col
699-24-34A					Q	Q							Q					Q				Q	Q:Amm, COD, Col

Table A-1. Sampling and Analysis Schedule for Supplementary Wells. (4 Pages)

Well or Aquifer Tube Name	Co-Sample	Comments	Alkalinity	Alpha	Anions ^a	Arsenic	Beta	Hexavalent Chromium	Cyanide	Gamma	Hg and Pb	I-129	ICP Metals (filtered) ^b	Phenols	Sr-90	Tc-99	Total Dissolved Solids ^c	Total Organic Carbon	Total Organic Halides	Tritium	Uranium	VOA	Other Constituents
699-24-34B					Q	Q							Q					Q				Q	Q:Amm, COD, Col
699-24-34C	200-PO-1				Q	Q							Q					Q				Q	Q:Amm, COD, Col
699-24-35					Q	Q							Q					Q				Q	Q:Amm, COD, Col
699-26-35A	200-PO-1				Q	Q							Q					Q				Q	Q:Amm, COD, Col

Treated Effluent Disposal Facility (TEDF)

699-40-36				Q	Q		Q				Q						Q			A			Q: Cd, Tr. Mtls
699-41-35				Q	Q		Q				Q						Q			A			Q: Cd, Tr. Mtls
699-42-37				Q	Q		Q				Q						Q			A			Q: Cd, Tr. Mtls

CERCLA (300-FF-5)

urial Grounds and 316-4 Crib

699-S6-E4A	200-PO-1		S	Q	Q		Q						S			S				S	Q	S	S:SVOA
699-S6-E4B	200-PO-1		S	S	S		S						S							S	S		
699-S6-E4D			A	A	A		A						A			A				A	A		
699-S6-E4E			S	S	S		S						S							S	S		
699-S6-E4K			S	S	S		S						S		S					S	S	S	S:SVOA
699-S6-E4L			S	Q	Q		Q						S		S					S	Q	S	S:SVOA

urial Grounds

699-12-2C			S	Q	S		Q						S			S				Q	S		
699-13-0A			S	Q	S		Q						S							Q			
699-13-1E			S	Q	S		Q						S							Q			
699-13-2D			S	Q	S		Q						S		S					Q	S		
699-13-3A	200-PO-1		S	Q	S		Q						S		S					Q	S		
699-12-4D			A	A	A		A						A		A					A	A		

S: ^a Anions – Analytes include but not limited to nitrate.

^b Metals – Analytes include but not limited to chromium, manganese, and vanadium.

^c Optional constituent.

^d Field measurement.

^e Waste Management Area A-AX wells will be sampled and evaluated for possible continued use to monitor cribs and to provide a monitoring location between Management Area A-AX and Waste Management Area C.

^f PNNL-13021, *Water-Level Monitoring Plan for the Hanford Groundwater Monitoring Project*.

Q to be sampled annually.

S to be sampled semiannually.

A to be sampled quarterly.

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