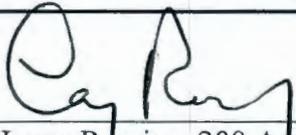
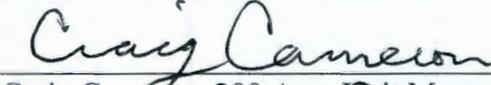


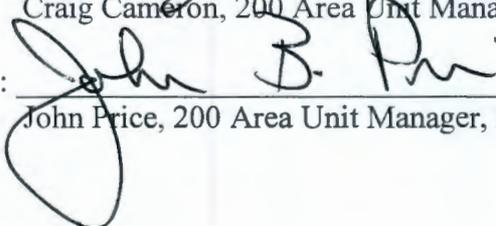
**Meeting Minutes Transmittal/Approval  
Unit Managers' Meeting  
200 Area Groundwater and Source Operable Units  
1200 Jadwin, Richland, Washington  
May 15, 2008**

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APPROVAL:  Date: 6/19/08  
Larry Romine, 200 Area Unit Manager, DOE/RL

APPROVAL:  Date: 6/19/08  
Arlene Tortoso, 200 Area Assistant Manager, DOE/RL

APPROVAL:  Date: 6/24/08  
Craig Cameron, 200 Area Unit Manager, EPA

APPROVAL:  Date: 6-24-2008  
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.

*See pen and ink changes under  
ZP-1 section. C.E.C.*

**RECEIVED**  
JUN 26 2008  
**EDMC**

Minutes of the 200 Area Project Managers' Meeting of May 15, 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	Figure 1: Wells 299-E33-205, 299-E33-342, 299-E33-343, 299-E33-344 and 299-E33-345 Location Map
Attachment 11	Two Aquifer Tubes at PO-1 Locations C6374 and C6375
Attachment 12	C5941 Combination Plot
Attachment 13	BCCA Downposting
Attachment 14	Change Notice for Modifying Approved Documents/Workplans In Accordance with the Tri-Party Agreement Action Plan, Section 9.0, Documentation and Records (TPA-CN-219)

# 200 AREA PROJECT MANAGERS' MEETING AGENDA

1200 Jadwin/Rm 1-C-1

May 15, 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-PC-1
- 200-SC-1 Group and 200-LVV-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 Unit Managers' Status Meeting  
May 15, 2008

Please print clearly and use black ink

PRINTED NAME	ORGANIZATION	O.U. ROLE	TELEPHONE
Frank Roddy	DOE	many OUs	372-0945
Glen C Trainer	DOE	UP-1/OW-1	430-1013
Jennie Seaver	FH	200 DAD	376-3762
Jennifer Oller	Ecy	200 SW1/2	372-7978
Kevin Leary	DOE-RL	200-UW-1 IS-1	373-7285
Mark Byrnes	FH	ZP-1 PM	373-3996
Brian Charboneau	RL	PM	373-6137
Chris Wollam	FH	PM	373-1587
Wade Woolery	RL	PM	372-2889
Russ Huddy	FH	SERP	376-0303
Ron Brunke	FH	SW-1	376-2663
Chris Berlin	FH	SW-2 PK	376-2389
Allan Donelson	WIDOH		<del>443-</del> 727-0645
BRIAN ESPARZA	FH	TW-1/TW-2/PW-5	376-6199
Greg Thomas	FH	200-BPS	373-3907
RD/Ho Debraud	DOE-RL	200-SP-5 PO-1, PW200	373-9626
Gene Rosendale	FH	200-DC-1	3-5664
Nay Decker	FH	200-LW-1/2 200-SC-1	376-4416

200 Area Unit Managers' Status Meeting  
May 15, 2008

Please print clearly and use black ink

PRINTED NAME	ORGANIZATION	O.U. ROLE	TELEPHONE
Dale Black	FH TPA	—	376-0740
Tina Crane	FH TPA	UPlant 200-cw-3	376-9789
Larry Remine	RL	200 A	376-4747
Shawey Cimor	OREGON	(S91)	943-0853
Janice Williams	FH		372 3552
John Price	Ecology	Proj Mgr	372-792)
Dennis Felt	<del>CRA</del>		
Jon Lindberg	<del>FH</del>	PO-1	376-4511
Bryan Taylor	DOERL		376-7087
L. Craig Johnson	FH	Technical	373-5807
Rich Oldham	FH	ECO	372 2426
RDB (11080)	FH	TOP	373-3285
G.D. Cummins	FH	PO-1	372 2484
MIKE Hickey	FH	<del>200-cw-5</del> IS-1	373 3092
Stuart Luttrell	FH / RCRA/GW		376-4531
Ted Repasmy	CTUR		541-946-2412
Tom Watson	FH	Central Plateau	376-5450
Virginia Rohay	FH	200-PW-1	373-3803
Phil Rog	FM	MW-1/PW-2/4	376-5807
Arlene Tortoso	DOE-RL	200-Proc UM	373-9631

**200 Area Project Managers' Meeting  
Agreements and Issues List  
May 15, 2008**

**Agreement:** TPA-CN-219 for the Waste Control Plan (SGW-36088, Rev. 0) for the 200-SC-1 Operable Unit and DOE/RL-2007-0-Volume II, Rev. 0, Supplemental Remedial Investigation/Feasibility Study Work Plan for the 200 Area Central Plateau Operable Units, Volume II: Site-Specific Field-Sampling Plan Addenda have been approved by DOE and EPA, dated 5/6/08 (**Attachment 14**).

**Agreement:** Ecology and DOE agree that sampling and analysis for toluene described on page 3-11 of the 200-CW-1 SAP does not need to be done.

**Agreement:** EPA accepts the aquifer test plan and directed that the test plan be transmitted to the 200-ZP-1 Administrative Record.

**Issue:** None Identified.

**Delegations for May 15, 2008 UMM meeting:**

EPA	Dennis Faulk/David Einan for Craig Cameron
Ecology	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	Ecology working with EPA.

# 200 AREA PROJECT MANAGERS' MEETING OPERABLE UNITS AND FACILITIES STATUS

May 15, 2008

## D&D OUs

### **200-CW-3 - EPA Lead**

- SAP: Comments have been incorporated and will be sent to RL.
- RAWP in electronic transmittal process for 30-day RL review.

### **Rail Car Disposition Options Study**

The railroad car disposition options study is in progress. Target completion date is September 30, 2008.

**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 public comments following the BCCA EE/CA 30-day Public Review have been responded to and are being finalized.
- Cultural/Historical/Biological/Ecological field assessments for Zone A of the BCCA were completed in April and the report is now being prepared for transmittal to DOE-RL.
- The RAWP is currently in development and the Action Memorandum for the BCCA has been drafted and transmitted to DOE-RL for review.
- Access and Haul roads to support the BCCA excavation have been completed. The Queue area development is underway and will be complete by mid-May.
- The RI/FS for the BCCA is discussed below under 200-UR-1.

**Schedule Status:** On schedule.

### **200-UW-1 Ecology**

- The 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 was informally transmitted to DOE/RL on October 1, 2007. DOE/RL is working through their concurrence process and making revisions 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.

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

## FACILITIES STATUS

- DOE received Regulator comments on the 221-U RD/RAWP and initiated the TPA dispute processes to resolve comments. This dispute is currently scheduled for review by the IAMIT May 27, 2008.

### **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:
  - Drilling has been completed on the remaining six wells (UP-6, UP-7, UP-8, UP-9, UP-10, and UP-12) and all have been accepted.
- Explanation of Significant Difference (ESD):
  - Ecology transmitted the draft ESD to DOE/RL and EPA for review. DOE/RL will schedule a meeting with Ecology to discuss comments.
- 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. Engineering has decided to resize the pump, and an FMP will be processed the week of 5/9/2008 and the work package will be released shortly thereafter.

**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 3 TSD units into the reissued RCRA Permit per Ecology letter of April 26, 2006.

Ecology and RL/FH met on May 8 to discuss a process for reaching agreement on a remedy/action to propose for the TSD units. A process approach was generally agreed upon and the parties will review details and prepare for a follow-on meeting. Ecology shared an informal RL comment on a preliminary draft of RCRA Permit conditions for incorporating the TSD units.

**Schedule Status:** Behind schedule. 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**

### **Supplemental Remedial Investigation**

- Completed 15-20 ft slim line DPTs, at Gable Mountain Pond, 216-S-17 Pond, 216-S-16 Pond, the 216-U-11 Ditch, B Pond, and U Pond, May 8.
  - The 216-T-4B Pond DPTs will occur in June (interface with Tank Farms).
  - Logging will begin as early as May 27.
  - Soil samples to follow.
- The 15-20' large diameter DPTs at U pond began May 7. HPG logging to follow.
- The 100' direct pushes are scheduled to begin May 19. Logging and soil samples to follow.
- The Borehole schedule has been moved up to begin as early as May 15 (previously scheduled for mid-August).
- The Test Pits (Augers) in U Pond are now scheduled to begin by June 1, rather than in May.

**Schedule Status:** Behind schedule to meet current milestone. TPA Change Request submitted.

## **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. Initial results continue to show the presence of high nitrate and Tc-99 concentrations in the area indicated by ERC to be contaminated.

- The excavation-based treatability test plan and SAP were approved April 17, 2008. The treatability test air monitoring plan was approved April 14, 2008.
- Excavation of the 216-B-26 Trench commenced May 1 as removal of the top 4 ft of the 1/3 section of trench began. As of May 9, approximately 3/4 of this element is complete.

**Schedule Status:** On schedule.

#### **200-IS-1**

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

- Ecology reviewing WP redline strike comment incorporation.
- Waste control plan has been signed by Ecology.
- Field work scheduled to start late May 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 (265 total) on Work Plan.
  - Comment resolution meetings with RL and Ecology are ongoing.
    - 90 percent of comments have been resolved to date.

**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 April 27, 2008 the 200-ZP-1 pump-and-treat system average pumping rate was approximately 232 gpm.

- All ten 200-ZP-1 extraction wells are currently on line pumping water at approximately 250 gpm.
  - Both of the T Tank Farm extraction wells (W11-45 and W11-46) are offline supporting an aquifer recovery test. Well W11-46 is scheduled to be put back on line around June 2, 2008 for an aquifer drawdown test.
  - **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 finalized and is currently being issued.
  - The decisional draft Purolite Resin Treatability Test Report (DOE/RL-2008-25) has been released to DOE-RL for review and comment. Comments are due back Thursday, May 22, 2008.
  - The decisional draft, Rev. 4, ZP-1 Remedial Design Report (DOE/RL-96-07) has been issued for DOE-RL review and comment. This document has been updated to include the 4 new ZP-1 extraction wells going on line later in FY2008 and the two T Tank Farm extraction wells. Comments are due back Thursday, May 29, 2008.
  - **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. Extraction well and injection well testing is complete.
  - We will be holding our eighth integration meeting with the tank waste EIS group on Monday, May 19, 2008.
- RI/FS Status:
    - FS and PP Report:
      - Rev. 0 FS and PP is scheduled to be delivered to DOE-RL on Friday, June 6, 2008 to meet 45 day TPA schedule.
      - The full quantitative assessment of the two Native American scenarios will be included in Revision 0. The calculations have gone through internal review.
- Tc-99 Investigation Status:
    - T Tank Farm Investigations:
      - The new "T-6" (W11-89) well will be positioned shortly after the extraction well W11-45 and W11-46 aquifer testing has been completed.
    - Purolite Resin Treatability Testing:
      - The Purolite Resin Test Report is out for DOE-RL Review.
      - Dennis Faulk, EPA, asked that text be added to the conclusion section of this report noting that the Purolite resin will be considered ~~to be~~ <sup>as</sup> part of the final treatment system since it was ~~so~~ <sup>so</sup> effective in removing Tc-99 from ZP-1 groundwater,

**Schedule Status:** On schedule.

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

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

- A Tri-Parties workshop on the 200-PW-1/3/6 FS was held on April 15.
- Soil Vapor Extraction System (SVE):
  - The SVE system is still situated at Z-1A.
  - Between April 1 and May 4, 2008, the soil vapor extraction system average pumping rate was 388 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.
  - The passive systems remain operational.
  - Monthly monitoring for March 2008 was conducted at two wells inside the 216-Z-1A Tile Field; results were consistent with those of previous months. No other wells were sampled in March because of intermittent electrical supply problems to the field screening trailer. Monthly monitoring results for April 2008 for the soil vapor probes and wells are not yet available. It is anticipated that these results will be summarized at the June UMM meeting.

**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**

- Work continues on the mini-RI for the supplemental investigations. Internal review is anticipated to begin the week of May 12, 2008.
- EPA comments on the draft RI (DOE/RL-2005-62) were received May 2, 2008 and are being addressed.
- Kick off for the FS report preparation took place on April 28, 2008 and initial deliverable are due May 9, 2008.

**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**

- A draft report on the surface electrical resistivity (ERC) was provided by the contractor in late-March. These and subsequent evaluations indicate that the ERC technique should not be undertaken where the wastes are of low ionic strength and there are numerous subsurface structures such as pipelines, cables, etc.
- Planning for the field work at the 216-A-5 and 216-S-1/2 Cribs is underway and nearly complete. The direct pushes are anticipated to be performed in mid-May and the high-risk borehole at 216-A-5 is expected to start on or about May 27, 2008.

**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**  
**(M-15-49A, 12/31/08, MG-1 EE/CA) Ecology**  
**(M-15-49B, 12/31/08, MG-2 EE/CA) EPA**

Both EPA and Ecology signed the TPA change requests to redefine the M-15-49A and M-15-49B Milestones from feasibility studies to engineering evaluations/cost analyses. The workscope has shifted accordingly.

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

### **Ecological Risk Assessment**

- DOE/RL transmitted the Draft A ERA to regulators on March 6, 2008. Due to a delay in the transmittal process, Ecology has taken an extension to the due date.
- A workshop was held on April 9, 2008 with the Tri-Party Agency decision-makers, tribal participants and external stakeholders to discuss the risk assessment results.
- EPA submitted their comments on the Central Plateau Ecological Risk Assessment on 4/30/08. Comments were received from the Yakama Nation on 5/5/08. Ecology's comments are expected on 5/20/08.

**Schedule Status:** Currently 2 months behind the baseline due to the resolution of comments from RL on the Rev A document prior to issuance and the extension taken by Ecology for their review.

### **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 10**). Drilling as of COB May 9<sup>th</sup> had advanced to 53' bgs.
- Drilling of well 299-E33-340/C5853 began April 7, 2008 (Figure 1). Drilling as of COB May 9 had advanced to 243.5' bgs.
- Drilling of well 299-E33-341/C5856 began April 28, 2008 (Figure 1). Drilling as of COB May 9 had advanced to 150' bgs.
- Well 299-E33-342/C5857 was completed April 23 (Figure 1).
  - Analytical is in progress.
- Well 299-E33-345/C6226 initial well development completed April 25th (Figure 1).

- Unusually low well yield was reported during initial development. Further evaluation is planned to determine if the low yield from the well is formational or associated with destruction and re-completion of permanent well casing and surrounding materials.
- Analytical in progress.

**Work Plan:**

- Comment resolution meeting for Rev 0 of DOE/RL-2007-18 "RI/FS Work Plan for the 200-BP-5 GW OU" was held April 30, 2008. Minor changes to DOE/RL-2007-18 Rev 0 and significant rewrite of DQO (WMP-28945) will be completed.

**Integration:**

Working with CHG on DQO for WMA C. Participated in the development of decision statements, principle study questions, boundaries, and characterization planning. Attended Tribal Work Shop for this document planning on May 8, 2008.

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

Planning for additional characterization at UPR-81 was completed May 9, 2008.

**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. Expected start of field activity May 24, 2008. The purpose is to put the focus on geological controls on groundwater flow.
- Aquifer tube installation at PO-1 locations continued in May. Two locations encountered refusal C6362-4 and C6377-9 and alternative locations are being evaluated (**Attachment 11**).
- Waste Control Plan (DOE/RL-2004-18) update draft revision initiated March 1, 2008. Completed and is being transmitted to RL.
- 200-PO-1 OU Sampling and Analysis Plan (DOE/RL-2003-04, Rev. 2) Draft Document for routine monitoring activities is being transmitted to RL. This revision addresses updates and changes 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:** A recovery plan that addresses missed sample hold times was approved May 6 through TPA Change Notice 219; re-sampling is required. Re-sampling is scheduled to begin the week of May 12, 2008.
- **216-A-30 Crib:** Drilling and sampling was completed April 21. A groundwater sample was collected by the 200-PO-1 OU project on April 23. Borehole decommissioning was completed May 7. The borehole total depth was approximately 296.5 ft bgs. The figure entitled "C5941 Combination Plot" in **Attachment 12** presents the preliminary geophysical logging results. A recovery plan that addresses missed sample hold times was approved May 6 through TPA Change Notice 219; re-sampling is not required.
- **216-S-6 Crib:** Drilling and sampling was completed April 23. Decommissioning was completed April 29. The borehole total depth was approximately 100 ft bgs.

**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 Rev 1A):**
  - **Draft Document:** The draft document was transmitted to Ecology for review and approval on April 24, 2008.

**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**

- Site-specific field sampling plan has been approved by EPA.
- Waste Control Plan is in Internal Review.

**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 has been transmitted to Ecology for review/comments

**Schedule Status:** On schedule.

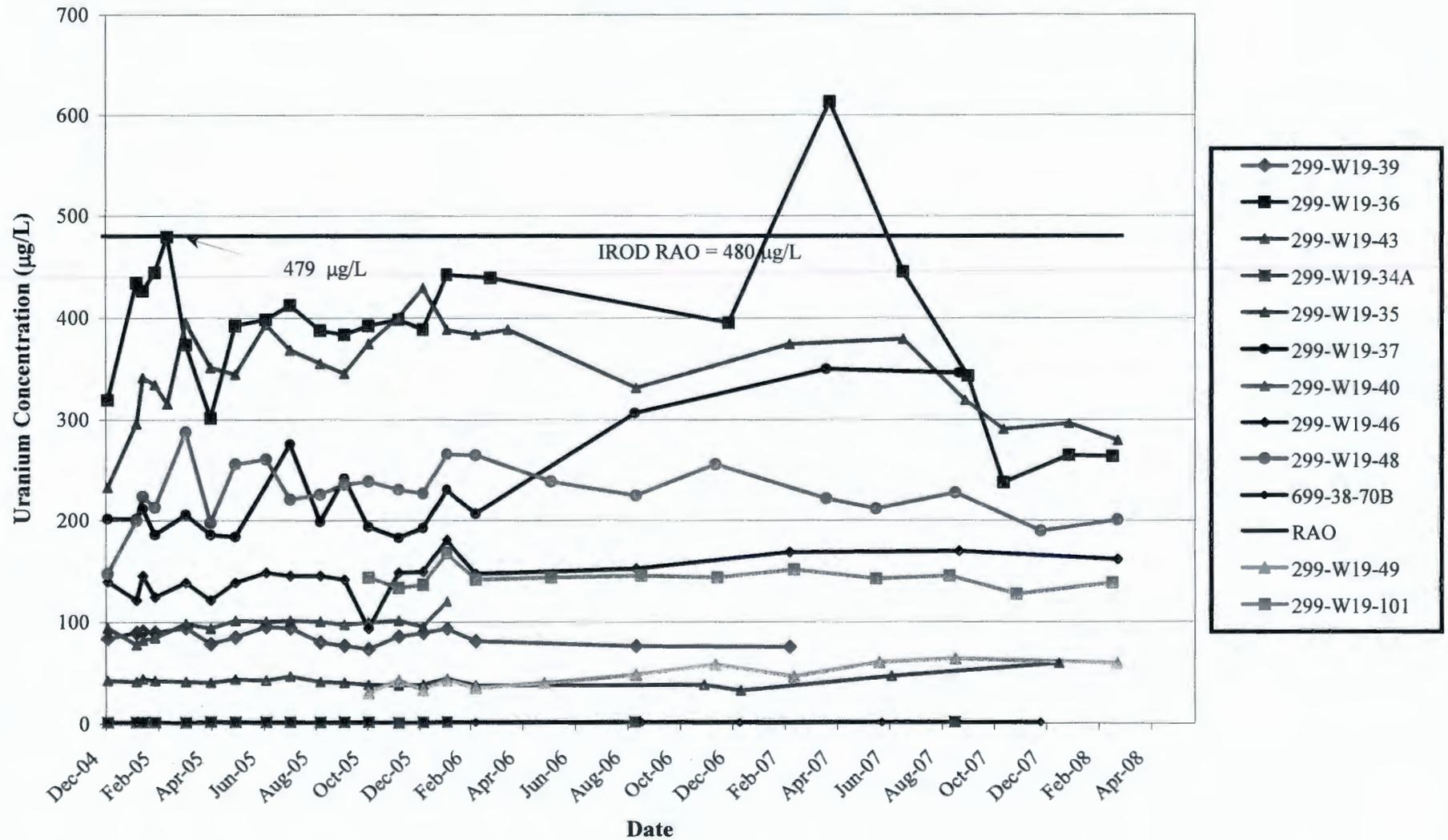
## 200-UR-1

### **200-UR-1 Ecology**

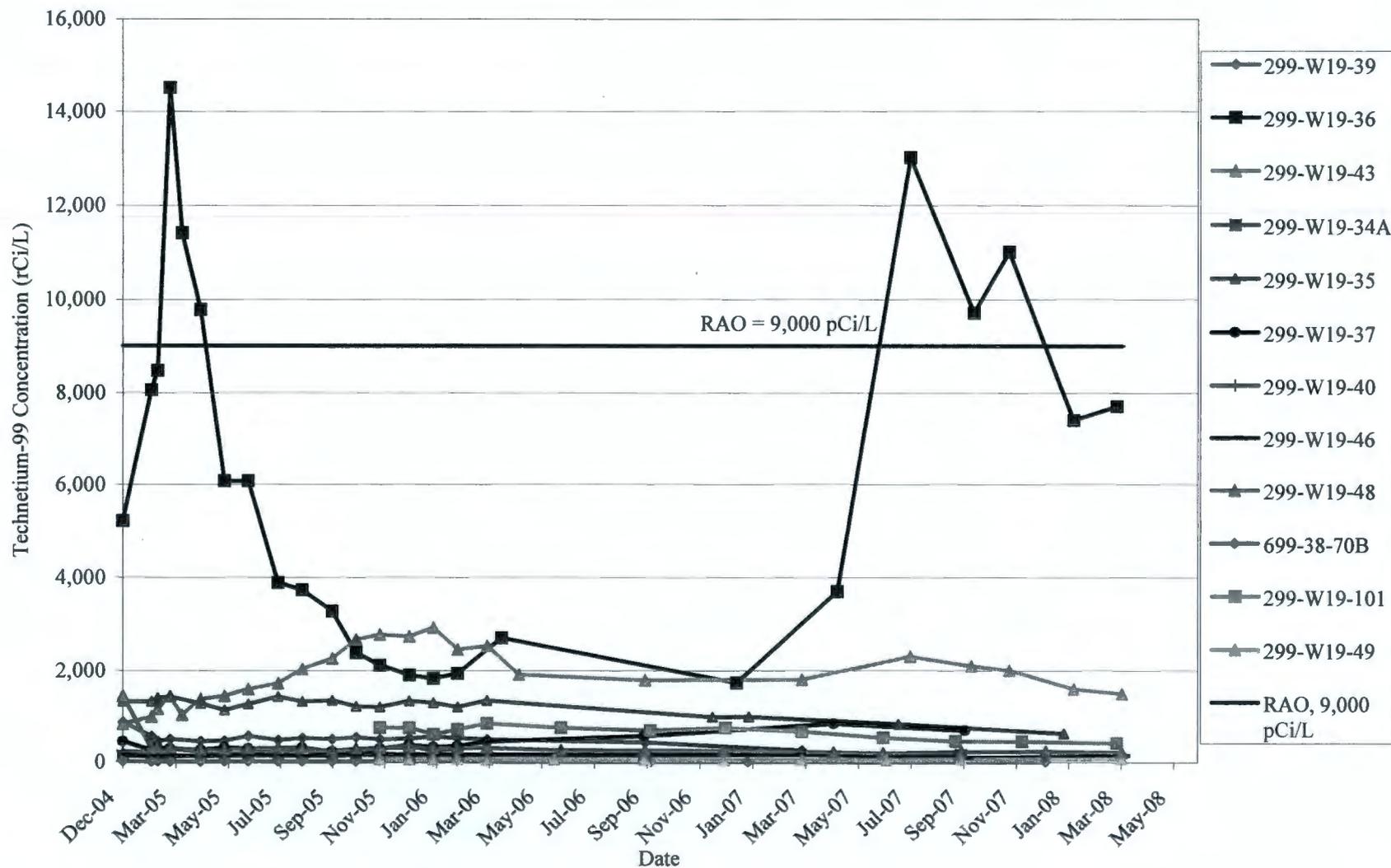
- BC Control Area
  - Radiological surveys for the Eastern and Western sections approximately 60% complete (Eastern Section complete, **see Attachment 13**). Path forward: Move postings in FY08; carry over funding for surveying West Section and complete in FY09.
  - Draft DQA for soil samples and analyses completed.
  - Revise plan for remaining BCCA tasks to align with EE/CA R/T/D.
- West Lake DQO summary report
  - Review workshops with Ecology concluded February 25, 2008. Ecology is preparing written comments.
  - Briefing for Tribes February 21, 2008, follow-up briefing April 16.

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

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

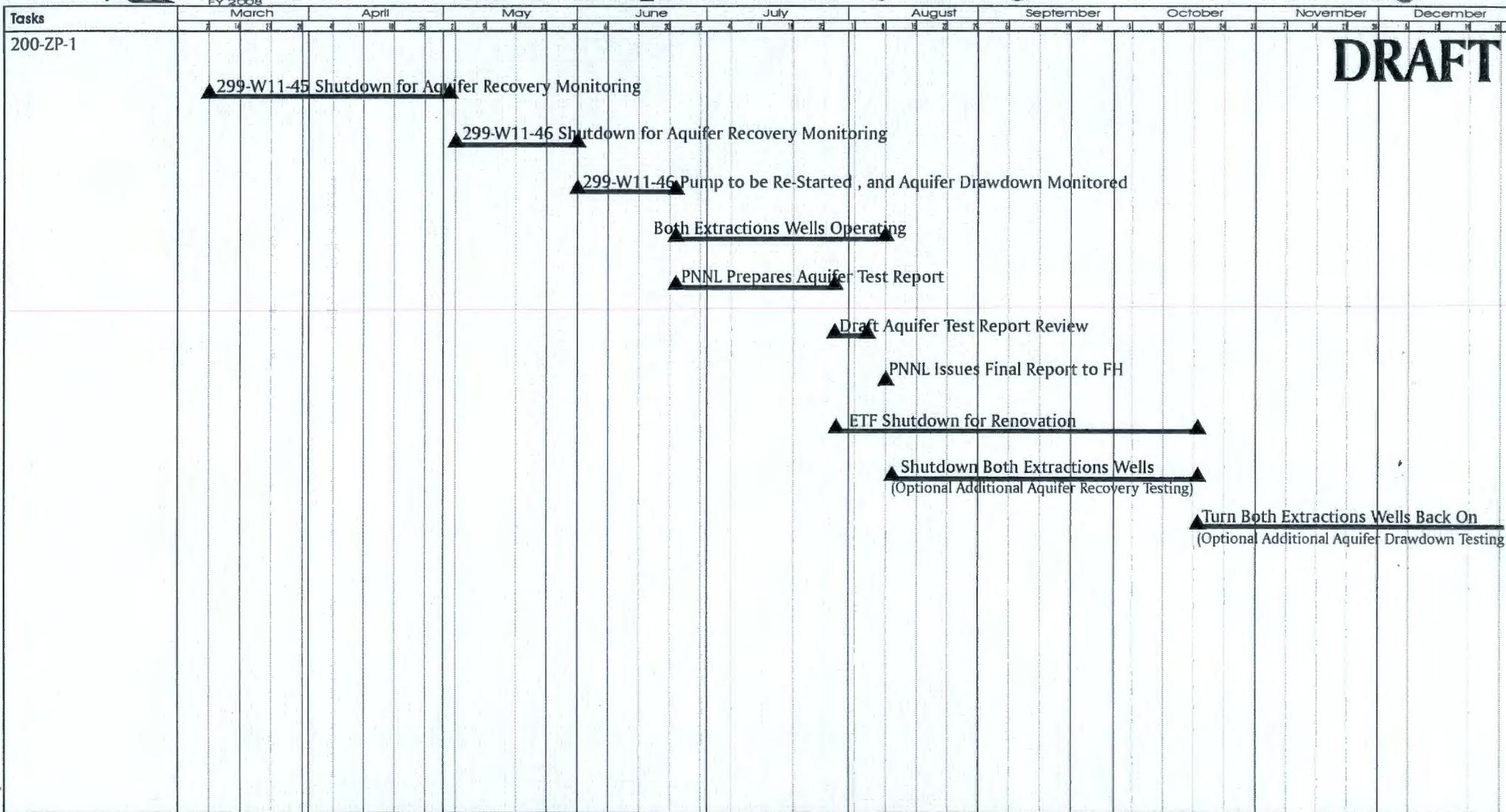


200-UP-1, Technetium-99 (rCi/L)





# 200-ZP-1 Aquifer Recovery Testing



**DRAFT**

Acronyms

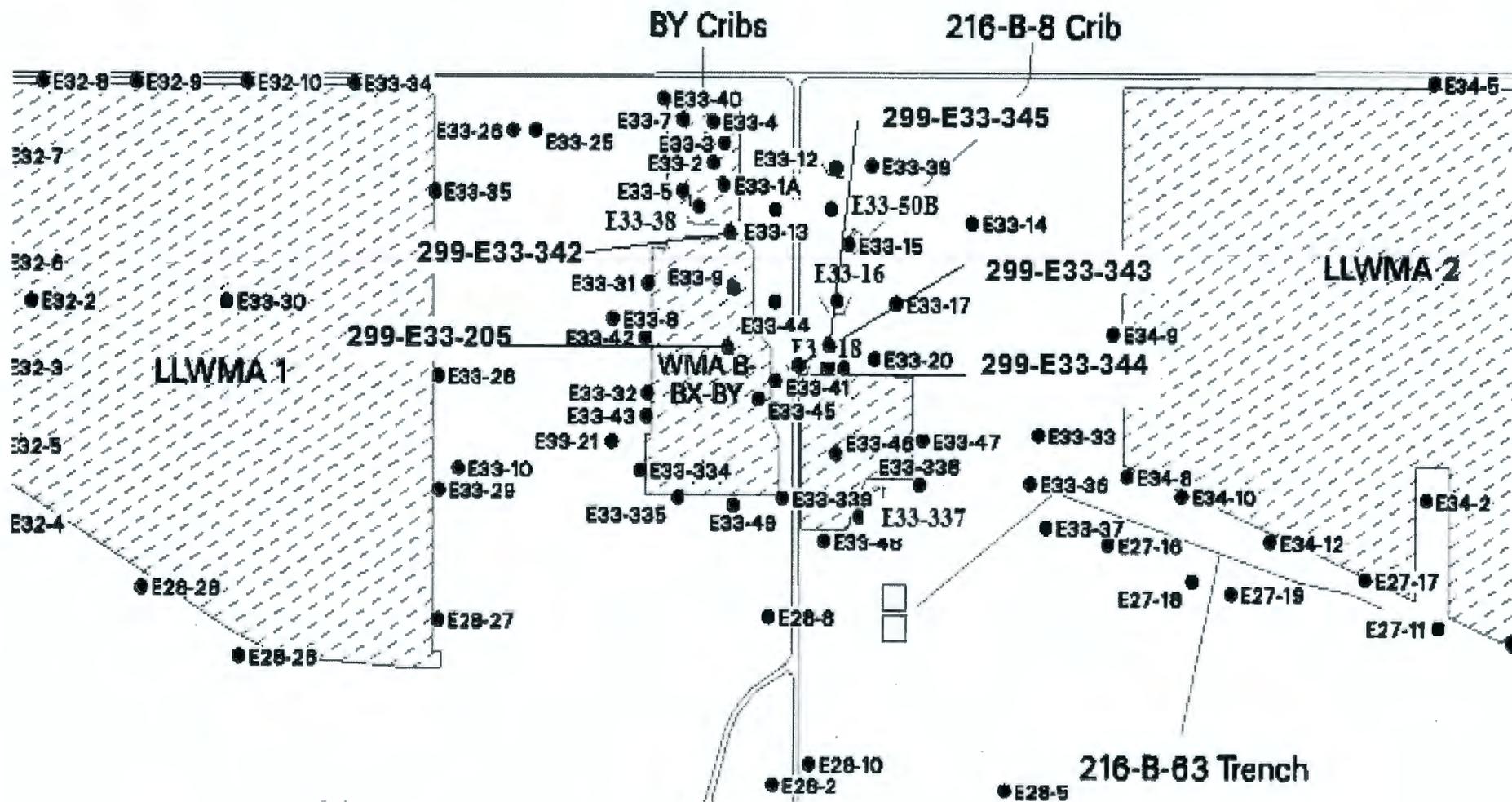
**Legend**

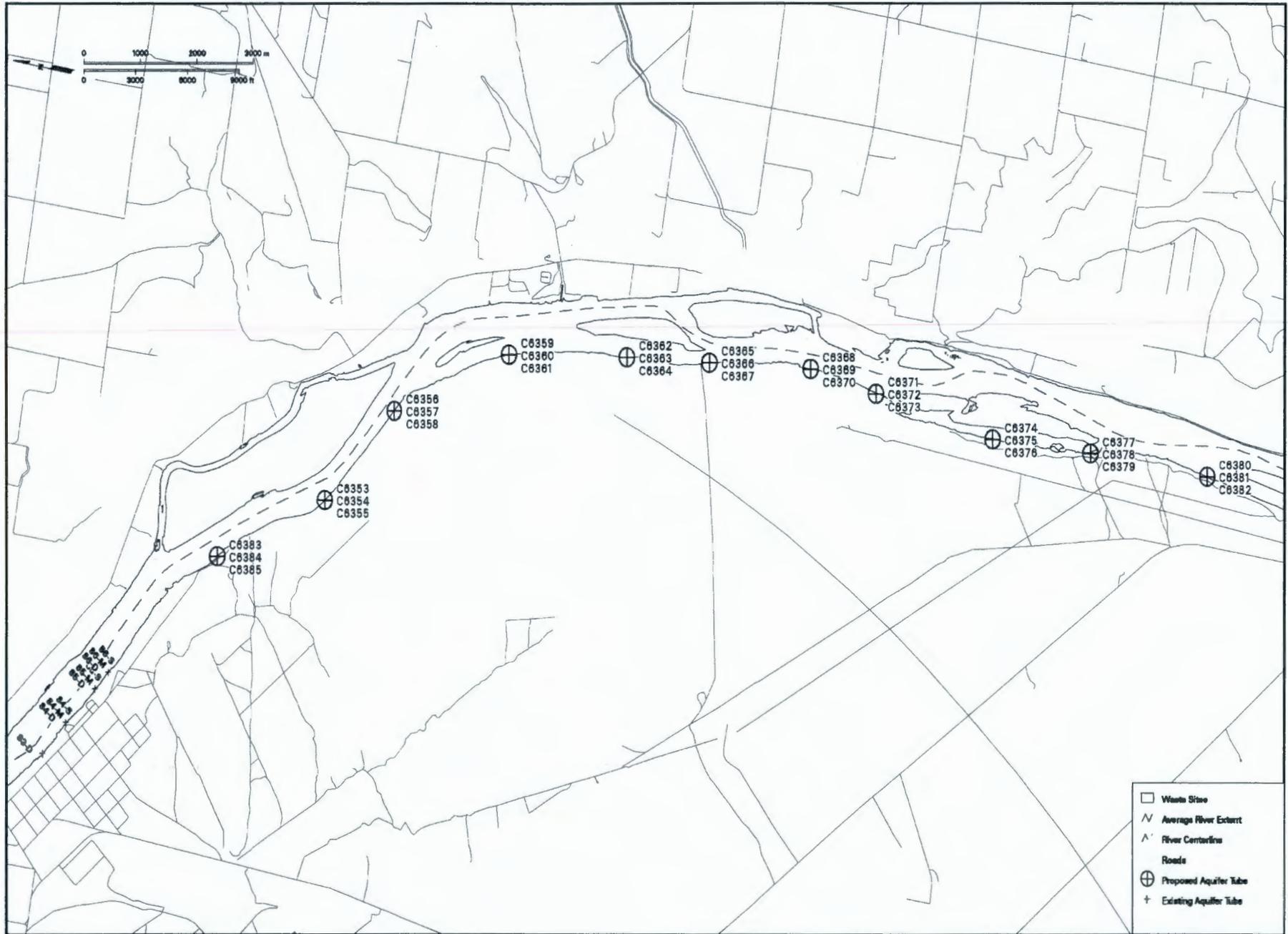
- Not Scheduled / Completed
- Start of Activity
- End of Activity
- Milestone

Rev. DRAFT



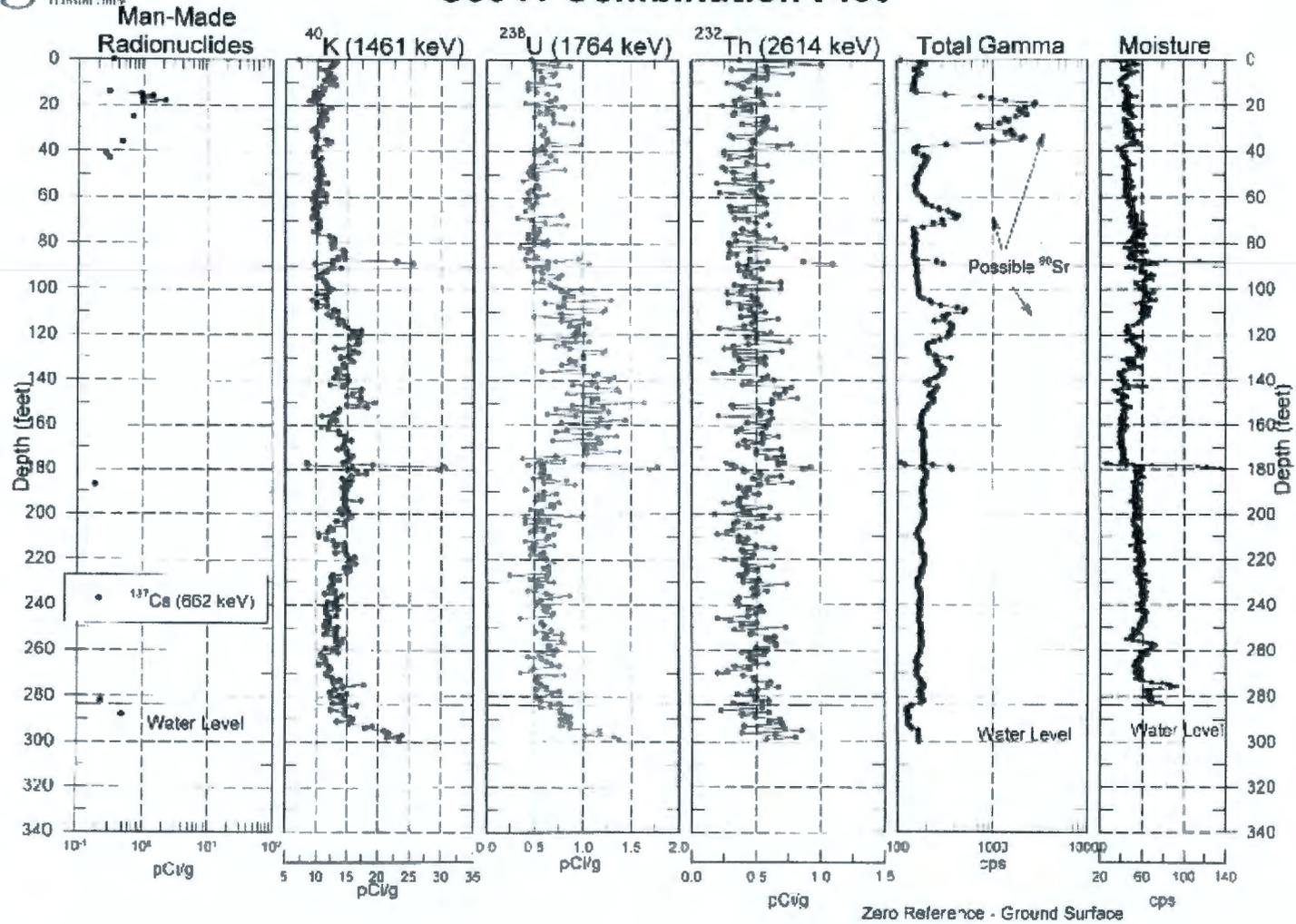
Figure 1: Wells 299-E33-205, 299-E33-342, 299-E33-343, 299-E33-344, and 299-E33-345 Location Map.



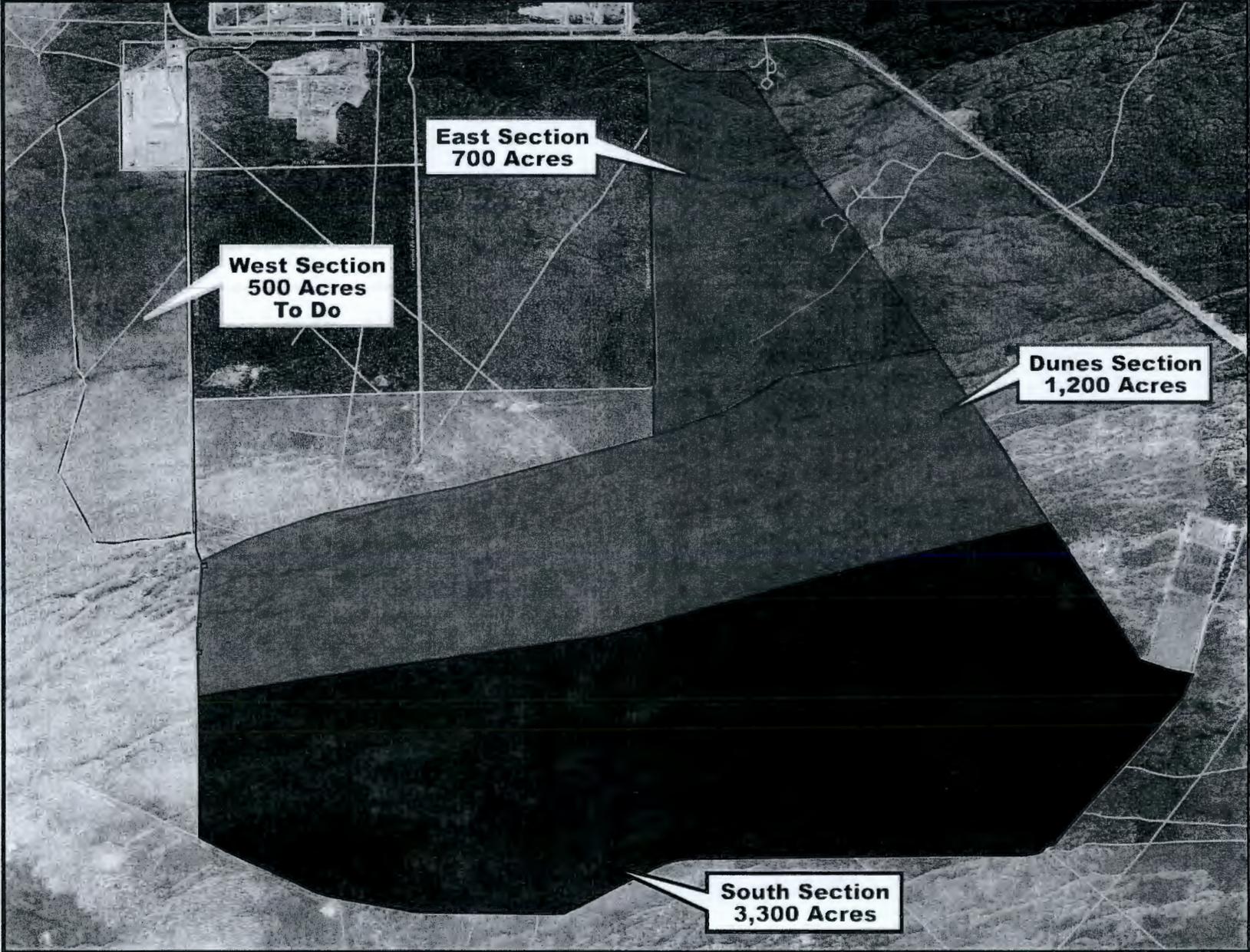




### C5941 Combination Plot



# BCCA Downposting





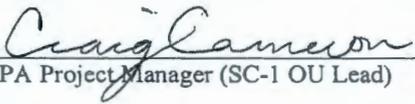
**Change Notice for Modifying Approved Documents/ Workplans  
In Accordance with the Tri-Party Agreement Action Plan,  
Section 9.0, Documentation and Records**

<b>Change Number</b>	<b>Document Submitted Under Tri-Party Agreement Milestone</b>	<b>Date:</b>
TPA-CN-219	N/A	05/06/08
<b>Document Number and Title:</b> SGW-36088, Revision 0, Waste Control Plan for the 200-SC-1 Operable Unit, and DOE/RL-2007-0-VOL II, Rev. 0, Supplemental Remedial Investigation/Feasibility Study Work Plan for the 200 Area Central Plateau Operable Units, Volume II: Site-Specific Field-Sampling Plan Addenda.		<b>Date Document Last Issued:</b> January 2008 and December 2007
<b>Originator:</b> J. S. Decker		<b>Phone:</b> 376-4416 or 528-0808
<b>Description of Change:</b> Add one boring at 216-B-55 crib, one boring at 216-T-36 crib and change the analyte list for 216-A-30 crib.		
<p style="text-align: center;"><u>B. L. Charboneau</u> and <u>C. Cameron</u> agree that the proposed change modifies an approved RL <span style="margin-left: 100px;">Lead Regulatory Agency</span></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 3, 200-SC-1 Planned Well List, of SGW-36088, Revision 0, Waste Control Plan for the 200-SC-1 Operable Unit, is revised to show the addition of one additional characterization borehole (C6743) at 216-B-55 crib and one direct push technology borehole (C6694) at 216-T-36 crib. Location plats are provided in the attachments.</p> <p>Table AD1-9, 216-A-30 Crib Sampling Plan, of DOE/RL-2007-02-Vol II, Rev. 0, is revised to show that the analyte list for split-spoon samples shall exclude the sulfide and the "Organics" listed in Table A2-3, Combined List of Contaminants of Potential Concern, of DOE/RL-2007-02-Vol I, Rev. 0. The revisions are provided in the attachments.</p>		
<b>Justification and Impacts of Change:</b>		
<p>New information suggests that the degree of radiological contamination in 216-T-36 maybe greater than estimated in historical documents. The additional direct push technology borehole at 216-T-36 will verify radiological contamination levels using geophysical logging for health and safety planning purposes. This borehole will be drilled if it is determined that supplemental characterization of 216-T-36 is necessary through the process described in the work plan and sampling and analysis plan for 216-T-36 (DOE/RL-2007-02-VOL II, Rev. 0).</p> <p>The changes pertaining to 216-B-55 and 216-A-30 implement a characterization recovery plan for the two waste sites. The characterization recovery plan addresses missed sample hold times for some of the samples collected during characterization performed at the two waste sites.</p> <p>The plan for 216-B-55 is to drill and sample another borehole, C6743, near the inlet of the crib at the expected edge of the crib. The location is perpendicular to the crib centerline by a distance of approximately 11 feet. The additional samples from this location are intended to provide information on the nature and extent of contamination as described in the Rationale for Proposed Supplemental Data Collection Activities (DOE/RL-2007-02-VOL I, Rev. 0, Table C-2). The data from the original characterization borehole and the additional data from the additional borehole will satisfy the requirements of the applicable work plan, and if it is determined that any additional characterization is required, any additional characterization would be pursued through the follow-on DQO process described in the work plan (DOE/RL-2007-02-VOL I, Rev. 0, A2.4.4 Follow-On Data Quality Objectives).</p> <p>The plan for 216-A-30 is to evaluate the data collected during characterization and determine whether additional characterization is required through the follow-on DQO process described (DOE/RL-2007-02-VOL I, Rev. 0, A2.4.4 Follow-On Data Quality Objectives). In order to satisfy the data collection requirements of the work plan and sampling and analysis plan, the sulfide and organic compounds were deleted from the analyte list for 216-A-30.</p>		



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Approvals:

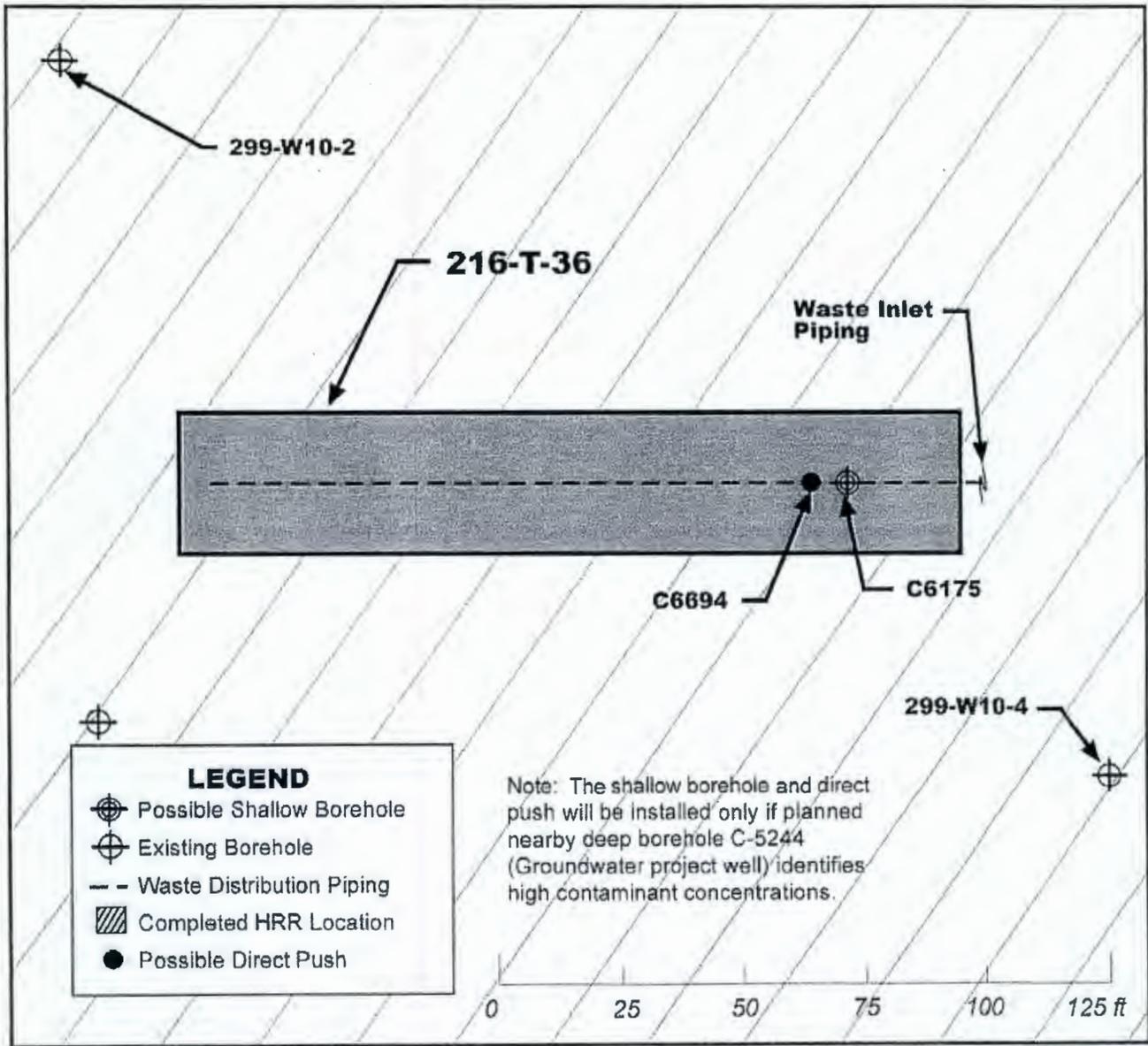
RP  RL Project Manager	5/06/08 Date	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved	<input type="checkbox"/> Disapproved	
 EPA Project Manager (SC-1 OU Lead)	5/6/08 Date	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved	<input type="checkbox"/> Disapproved <input type="checkbox"/> Disapproved	



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Attachment 1

Figure - 1



**LEGEND**

- Possible Shallow Borehole
- Existing Borehole
- Waste Distribution Piping
- Completed HRR Location
- Possible Direct Push

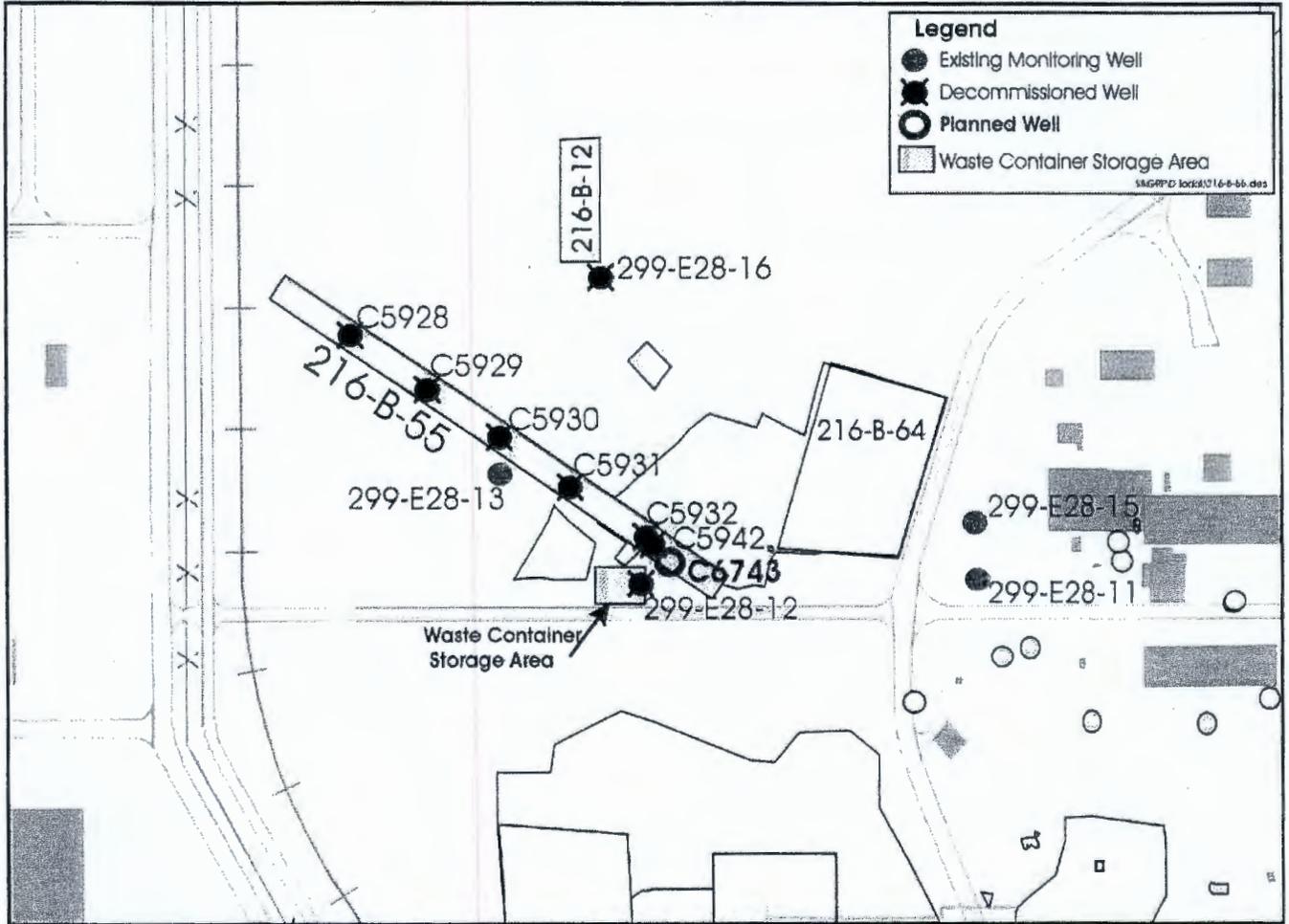
Note: The shallow borehole and direct push will be installed only if planned nearby deep borehole C-5244 (Groundwater project well) identifies high contaminant concentrations.

FG2170.5



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Figure - 2





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DOE/RL-2007-02-VOL II REV 0

Table AD1-9. 216-A-30 Crib Sampling Plan.

Sample Collection Methodology	Sample Location	Maximum Depth of Investigation	Sample Interval Depth (ft bgs) <sup>a</sup>	Analyte List <sup>b</sup>	Physical Properties	
					Sample Interval	Parameters
Borehole drilling and sampling	One new borehole near the inlet end of crib	To water table (~275 ft bgs)	Split- spoon sample intervals: 1 – 3.5 ft bgs 3.5 – 6 ft bgs 15 – 17.5 ft bgs 85 – 87.5 ft bgs 122.5 – 125 ft bgs TD (~272.5 – 275 ft bgs)	Analytes are presented in Volume I, Table A2-3, the 200-CW-5, 200-CW-2, 200-CW-4, and 200-SC-1 columns <sup>c</sup> .	All split- spoon samples	pH, specific conductance, bulk density, moisture, particle-size distribution
			Collect grab samples every 2.5 ft from depth 15 ft bgs to TD. Perform extraction analysis on grab samples, starting with samples every 10 ft.			
Number of split- spoon samples		6				
Approximate number of field quality- control samples <sup>d</sup>		3				
Approximate number of grab samples		105				
Approximate total number of soil samples collected		113				
Approximate total number of soil samples initially analyzed <sup>d</sup>		36				
<b>Non-Sample Data Collection</b>		<b>Maximum Depth of Investigation</b>				
Electrical resistivity characterization		Not defined				
Downhole gamma- spectroscopy log, neutron moisture, and passive neutron logs		Surface to TD in new borehole at ~275 ft bgs				

<sup>a</sup> Actual sampling depths may vary depending on the amount of backfill/overburden used in interim- stabilization activities at the waste site, field screening results, and varying subsurface conditions.

<sup>b</sup> See Volume I, Appendix A, Tables A2-1, A2-2, A2-3, and A3-2 for detection limits and other analytical parameters.

<sup>c</sup> One duplicate, one split, and one equipment blank. Field blanks also will be collected for volatile organic analysis, but are not included here.

<sup>d</sup> Samples analyzed include 6 split spoon samples, 27 grab samples, and 3 quality- control samples.

bgs = below ground surface. N/A = not applicable. TD = total depth.

<sup>e</sup> The analyte list shall exclude Sulfide and the "Organics" compounds listed in Volume I, Table A2-3, per Tri-Party Agreement Change Number TPA-CN-219.

AD1-37

**DISTRIBUTION  
PROJECT MANAGERS' MEETING,  
200 AREA GROUNDWATER SOURCE OPERABLE UNITS  
May 15, 2008**

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