

**Meeting Minutes Transmittal/Approval
Unit Managers' Meeting
200 Area Groundwater and Source Operable Units
1200 Jadwin Avenue, Richland, Washington
October 21, 2004**

0063950

APPROVAL: *Arlene Tortoso* Date: 2/17/05
Arlene Tortoso, Groundwater Unit Manager, DOE/RL

APPROVAL: *Larry Romine* Date: 2-17-05
Larry Romine, Federal Project Director, 200 Area D4 & Waste Site
Remediation, DOE/RL

APPROVAL: *Craig Cameron* Date: 2/17/05
Craig Cameron, 200 Area Unit Manager, EPA

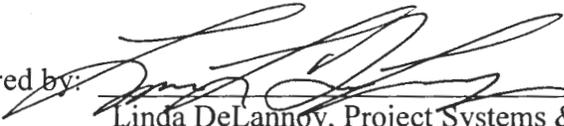
APPROVAL: *John B. Price* Date: 2/17/05
John Price, 200 Area Unit Manager, Ecology

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Meeting minutes are attached. Minutes are comprised of the following:

Attachment 1	--	Agenda
Attachment 2	--	Attendance Record
Attachment 3	--	200 Area UMM Minutes – October 21, 2004
Attachment 4	--	200 Area Current Action Log
Attachment 5	--	Float Table
Attachment 6	--	200-UP-1, 200-ZP-1 and 200-PW-1 Status Report
Attachment 7	--	Comparison of Maximum Carbon Tetrachloride Rebound Concentrations Monitored at 200-PW-1 Soil Vapor Extraction Sites FY 1998- FY 2004
Attachment 8	--	Decommissioning Well List for 200 ZP-1 and 200- PW-1
Attachment 9	--	Central Plateau D&D Schedule
Attachment 10	--	Decommissioning Well List for 200-BP-5

Prepared by:


Linda DeLannoy, Project Systems & Support (H8-49)

Date 2-18-05

Concurrence by:


Mary Todd-Robertson, FH Deactivation & Decommissioning (E6-35)

Date 2/18/05

**DISTRIBUTION
UNIT MANAGERS' MEETING,
200 AREA GROUNDWATER SOURCE OPERABLE UNITS**

EPA

Craig Cameron

B5-01

Ecology

John Price

H0-57

Administrative Record (2)

A3-01

UNIT MANAGERS' MEETING AGENDA

1200 Jadwin/Rm 1-C1

October 21, 2004

9:00-9:20 a.m.

Issues Resolution Meeting (20 minutes)

- Review of Issues Table from September UMM

9:40 a.m. – 10:30 a.m.

General (10 minutes)

- Outstanding Action Items
- Open for Regulatory Topics or Action Items
- Start Cards

Central Plateau Closure (3 min)

- Decision/issues framework discussion

U Plant Area (3 minutes)

- 200-UW-1 Waste Sites
- Ancillary Facilities
- 221-U Canyon Disposition Initiative

BC Cribs Area Closure (2 minutes)

- Schedule Review
 - Tc Plume Delineation
 - 216-B-26 Fate & Transport Modeling

200-TW-1, 200-TW-2, & 200-PW-5 (2 minutes)

- Schedule Review
 - Status of RI Report
 - Status of FS and PP

GROUNDWATER OPERABLE UNITS

200-BP-5 & 200-PO-1 OUs (2 minutes)

- Sampling and Analysis Plans status

200-UP-1 OU (2 minutes)

- Remediation Treatment Status
- RI/FS Work Plan Status – Received Ecology comments 9/3
- Status of New Wells, “P,” “K,” and “R”
- Update on Rebound Study

200-ZP-1 OU (2 minutes)

- Remediation Treatment Status
- RI/FS Work Plan Status – Issued
- Update on Expanding P&T System to North
- Approval to Use Single Wall Discharge Line (P&T Expansion)

200-PW-1, 200-ZP-2 OU (2 minutes)

- Remediation Treatment Status
- Monthly Monitoring

SOURCE OPERABLE UNITS

200-PW-1, 200-PW-3, & 200-PW-6 OUs (3 minutes)

- Schedule Review
 - Status of Field Work Preparation and Planning
 - Status of Field Work at 216-Z-9
 - Status of Carbon Tetrachloride DNAPL Investigation

200-CW-1 & 200-CW-3 OUs (2 minutes)

- Schedule Review
 - Status of FS and PP

200-PW-2 & 200-PW-4 OUs (3 minutes)

- Schedule Review
 - Status of RI Report
 - Status of Field Planning for 216-S-7 Borehole

200-CS-1 OU (2 minutes)

- Schedule Review
 - Status of RI Report

200-CW-5, CW-2, CW-4, & SC-1 OUs (2 minutes)

- Schedule Review
 - Status of Work Plan
 - Status of RI Report
 - Status of FS and PP

200 Area Ecological Evaluation (3 minutes)

- Schedule Review
 - Status of Eco DQO
 - Status of Eco Evaluation Report
- Overview of Eco Activities
 - Spring Sampling Progress
 - Status of the FY04 Sampling

200-IS-1 & 200-ST-1 (2 minutes)

- Schedule Review
 - Status of Work Plan

200-LW-1/200-LW-2 (2 minutes)

- Status of Field Work

200-MW-1 (2 minutes)

- Status of Field Work

200-UR-1 (2 minutes)

- Schedule Review
 - Status of DQO and Work Plan

200-SW-1/2 (2 minutes)

- Schedule Review
 - Status of DQO and Work Plan
 - Reassignment of Trench 94 and Integrated Disposal Facility

Groundwater and Source Operable Units Unit Managers' Meeting
Official Attendance Record – 200 Area Issues
October 21, 2004

Please print clearly and use black ink

PRINTED NAME	ORGANIZATION	O.U. ROLE	TELEPHONE
Lanny Dwek	FH	D&D Tech Spt.	509 438-1756
Dennis F. J. J.	SPA		
Beth Rochette	Ecology	U-Plant area	509-372-7922
STEVE BERTNESS	DOE	MANN	376-6221
Arlene Tortoso	DOE	200 Area GW	373-9631
Craig Cameron	EPA	U.M.	376-8665
Ron Jahn	FH	U-Plant	373-3599
Virginia Rohay	FH	PW-1, SW-2	373-3803
Mark Benedek	FH	EC Cibs TW-1	376-0002
MARY Topp-Robertson	FH	Waste site Remediation	373-3920
John Winterhalter	FH	ECO	372-8144
Mark Byrnes	FH	Task Lead	373-3996
Bruce Ford	FH	FAERP Director	373-3809
Zelma Jackson	Ecology	200 Area	372-7172
Dave Erby	FH	200-IS-1	373-4457
Jon PERRY	FH	FH-EP	376-4791
Mike Hickey	FH	CW-1 & CW5	373 3092
Jennie Skulas	Ecology	project	372-7956
Stuart Luttrell	PNNL	G Water	376-6023
MARGO VOOGD	DOE	Acting PM	376-8375

UNIT MANAGERS' MEETING MINUTES
1200 Jadwin/Rm 1-C1
October 21, 2004

Agenda: See Attachment #1

Attendees: See Attachment #2

Table of Issues: 10/21/04

IAMIT	UMM	ISSUES	AGREEMENTS	FOLLOW- ON ACTION	LESSONS LEARNED
X		ROD Strategy	This issue will be tracked in UMM but resolution is currently at IAMIT level.	Hold workshop before going out to public.	
	X	RCRA/CERCLA Integration	U Plant Regional Closure should be used as example	J. Price to give presentation on RCRA/CERCLA next 30 min of UMM	OU w/TSD – identify how we are doing.
X	X	<ul style="list-style-type: none"> SW-2 OU – Ecology requested task-level schedule and float in accordance with TPA. Ecology will use task-level schedule to evaluate whether RL can meet 12/31/2008 milestones to complete RI/FS. 		<ul style="list-style-type: none"> RL response to Ecology letter due by 9/22. FH staff has been reviewing the INEL WAG7 info. 	
		<ul style="list-style-type: none"> Ecology would like to talk about COPCs, analyses by method, and analytical report. Beth Rochette will discuss the issue on behalf of Ecology. Review Costs & Options on Method. Get knowledgeable about process 		<p>Method based approach to COPC lists.</p> <p>Clarifying question from EPA: Once we have RCRA/CERCLA process nailed down, bring to EPA.</p>	
		<ul style="list-style-type: none"> Ecology requested target milestones for U Plant pipelines. Would like to have EE/CA by March 31, 2005. RL deferred agreement until this UMM, to evaluate baseline data. Ecology recommending enforceable milestones if target milestones not acceptable. Need to consider HAB advice of September 10. 		<ul style="list-style-type: none"> RL to respond at November UMM. Should include ORP in discussions prior to going to enforceable milestones. Discuss due date for Tri-Party response to HAB advice. 	DOE working on meetings before next UMM-John/Larry talk before next UMM Formal response waiting for comments from JP to TPA to respond to HAB.
		<ul style="list-style-type: none"> Dennis Issue: Well Decommissioning, EPA out of loop. 		<ul style="list-style-type: none"> Meeting w/Data evaluators, 	

IAMIT	UMM	ISSUES	AGREEMENTS	FOLLOW- ON ACTION	LESSONS LEARNED
		<ul style="list-style-type: none"> • List of Wells, no justification; no • indication if part of network • Why decommission • M-24 Milestone • EPA has no input • More rigorous process • CERCLA • DQO Questions • Formalize 		examples, what is value – FH before next UMM.	

IAMIT	UMM	CLOSED ISSUES	AGREEMENTS	FOLLOW- ON ACTION	LESSONS LEARNED

Issues Resolution Meeting

- Review of Issues Table from September UMM
- General Discussion Topics
 - If Team Leads are not going to be in UMM, need to notify in writing.

Unit Managers Meeting

Topics of Discussion:

1. General

- Outstanding Action Items – Status was provided for Action #36. Two new actions were added: #38: “All agencies to provide written notification and who is designee when unable to attend” and Action #39: “Assignment of POC listing for RL leads to be made available to FH.”
- Open for Regulatory Topics or Action Items – No discussion.

2. Central Plateau Closure

- Decision/Issues Framework Discussion – The Plan for Central Plateau Closure was completed and submitted to RL on September 29, 2004.

3. U Plant Area

- 200-UW-1 Waste Sites – FH is scheduled to provide copies of the redline/strike version of the FFS/PP for RL review on October 21, 2004, with comments due back to FH on November 11, 2004. SAP is on hold until a general agreement is reached with regulators on Draft C of the FFS/PP. A workshop held on September 27 and 30, 2004, with the regulators identified the potential for additional boreholes to define the foot print of the proposed surface barriers for the high risk waste sites. A DQO workshop on surface barrier monitoring is planned on October 21-22, 2004, with RL, Regulators, PNNL, CHG, and barrier consultants.

- Ancillary Facilities – Sampling analysis scheduled for completion by November 1, 2004; D&D is expected to start by December 1, 2004. |
- 221-U Canyon Disposition Initiative – Huge progress on CDI. RL is expecting comments on the CDI FS/PP from Ecology in the next few days with subsequent public review in December timeframe.

4. BC Cribs Area Closure

- Schedule Review
 - Tc Plume Delineation – latest characterization included the cribs. Similar to the previous characterization of the trenches, merging of contamination beneath individual cribs was evident. Also, the apparent depth of contamination is similar to that for the trenches.
 - 216-B-26 Fate & Transport Modeling – final report is expected this week.

5. 200-TW-1, 200-TW-2, & 200-PW-5

- Schedule Review
 - Status of RI Report – No progress has been made in resolving fate and transport modeling of the 216-T-26 Crib during this report period.
 - Status of FS and PP – Completion of these documents has been deferred to FY 2006.

GROUNDWATER OPERABLE UNITS

6. 200-BP-5 & 200-PO-1 OUs

- Sampling and Analysis Plans status – Working on Sampling and Analysis Plan. Transmitted an updated well decommissioning table for 200-BP-5.

7. 200-UP-1 OU

- Remediation Treatment Status – Performance information attached. Average Pumping Rate (counting all outage time as 0 gpm) for January 26 through October 10, 2004, is approximately 51.1 gpm. From August 23 through September 30, the system operated between 46.7 and 51.3 gpm. The system was shutdown for 7 hours August 26 and 7.5 hours on September 28 for an ERDF leachate transfer. Extraction well 299-W19-39 shutdown for approximately 5 hours on September 19 due to low water level. System Run Time:

– For August 23 through September 30	98.4%
– FY 2004 (Year to date)	91.9%
– System Inception to date	92.5%
- RI/FS Work Plan Status Draft B – A 4th meeting will be held with Ecology to fully address well completion and well network comments. Work on the RI Report was scheduled to re-start October 1, but due to drilling delays, data from these wells will not be available until early December. Important Deliverables:

- July 12, 2005 – DOE-RL submits Draft A RI Report to Regulators
- April 5, 2007 – Issue Draft A FS Report to Regulators
- Status of New Wells – New monitoring well “P” and “R” are currently being constructed (see attached map). Drilling of new well “K” has started (~100 ft below ground surface). These wells were scheduled to be installed last spring, but encountered drilling delays.
- Update on Rebound Study – Need Ecology status on their review of the 200-UP-1 Operating Plan for rebound study.

8. 200-ZP-1 OU

- Remediation Treatment Status – Performance Information attached. Average Pumping Rate for FY 2004 through September 30, 2004: 142 gpm; from August 23 through September 30, the system operated at 205 gpm. System was shutdown for a short period on August 27 and 30, 2004, due to broken gas analyzer. System was shutdown for 2 hours on September 20 for a GAC change-out. System Run Time:
 - For August 23 through September 30 93.4%
 - FY 2004 (year to date) 95.6%
 - System Inception to date 92.6%
- RI/FS Work Plan Status - Issue
- Update on Expanding P&T System to North – Regarding ZP-1 pump-and-treat expansion: Design work started October 1 as scheduled; next week we will be reviewing the implementation schedule to see if the schedule for placing new extraction wells online can be accelerated.
- Approval to Use Single Wall Discharge Line (P&T Expansion) – After discussion with Brenda Becker-Khaleel, DOE-RL is in the process of issuing a letter to Ecology noting that we will be using single-walled above-ground piping for the ZP-1 expansion combined with daily inspections. This is consistent with WAC 173-303-640 (4) (f).

9. 200-PW-1, 200-ZP-2 OU

- Remediation Treatment Status – The soil vapor extraction system was shutdown the week of September 30, 2004, to relocate it in the vicinity of the 216-Z-9 site. The system will not be shutdown until November 1, 2004, at EPA’s request. The passive systems remain operational. A new monitoring plan will be prepared for the November – March period while the SVE system is not in operation.
- Monthly Monitoring – Monitoring was conducted October 7, 2004 (see attached handout). Average Air Flow Rate for August 23 through September 30, 2004: 336 CFM. Results were consistent with results from previous months. The three monitoring probes at CPT-9A were damaged by a construction vehicle. The monitoring probe at 60 ft depth at CPT-9A was salvaged and monitored on October 7, 2004.

SOURCE OPERABLE UNITS

10. 200-PW-1, 200-PW-3, & 200-PW-6 OUs

- Schedule Review
 - Status of Field Work Preparation and Planning – Pre-job planning for 216-A-8 Crib and 216-Z-9 Trench representative sites remedial investigation is continuing in support of drilling in FY 2005. Pre-job planning for Step II of dispersed carbon tetrachloride plume was initiated to support the remedial investigation in FY 2005. The tasks are being coordinated with the field tasks planned for the DNAPL investigation by Vista Engineering so that the 200-PW-1 RI will have a consistent database.
 - Status of Field Work at 216-Z-9 – DOE-RL requested groundwater field screening data from 216-Z-9 borehole. The current depth of the borehole is 294 ft.
 - Status of Carbon Tetrachloride DNAPL Investigation – Vista has submitted the test plan for conducting the next phase of the passive soil gas survey for November in the 216-Z-1A/Z-18/Z-12 and PFP areas. EPA suggested that the Vista Engineering work plan be turned into an official DOE document that EPA would approve. DOE-RL agreed to consider this and to respond back to EPA.

11. 200-CW-1 & 200-CW-3 OUs

- Schedule Review
 - Status of FS and PP – In a holding pattern. FH and Ecology to convene about a path forward to roll CS-1 and CW-1 in alignment with ROD strategy starting with CS-1.

12. 200-PW-2 & 200-PW-4 OUs

- Jennie Stults is the lead. FH requested an updated assignment list from Ecology. Three documents were requested from Ecology to support the RI report review. FH provided the documents to Jennie Stults at the meeting.
- Schedule Review
 - Status of RI Report – The Work Plan was approved on September 10, 2004. Comments from Ecology on the RI report were submitted on October 19, 2004.
 - Status of Field Planning for 216-S-7 Borehole – The drill rig is there; moving equipment; Health and Safety Plan is in place; hoping to drill next week.

13. 200-CS-1 OU

- Schedule Review
 - Status of RI Report – Work continuing on incorporating comments into R/0 document. Assuming no comments are received from stakeholders, the R/0 document is currently scheduled for submittal to Ecology on November 30, 2004. Reached agreement on all but arsenic; plan to close on arsenic and go back to RL November 15, 2004.

14. 200-CW-5, CW-2, CW-4, & SC-1 OUs

- Schedule Review - Approved SAP offline. Need letter to confirm completion.
 - Status of Work Plan – Delivered to RL and passed on to EPA. Need approval of Work Plan.
 - Status of RI Report - Delivered to RL and passed on to EPA. Conditional approval.
 - Status of FS and PP – submitted October 15, 2004, and submitted to EPA. Plan to send out on October 29, 2004.

15. 200 Area Ecological Evaluation

- Schedule Review
 - Status of Eco DQO – In clearance process. SAP is being revised and is scheduled for completion November 2004.
 - Status of Eco Evaluation Report – Plan to submit for clearance next week and then to distribution.
- Overview of Eco Activities
 - Spring Sampling Progress – Currently planning FY 2005 work, including equipment purchases. FY 2005 results will be found on Gable Mountain and B Pond.
 - Status of the FY 2004 Sampling – No discussion.

16. 200-IS-1 & 200-ST-1

- Schedule Review
 - Status of Work Plan – Would like to get together with Ecology to discuss plans for pipelines – meeting next Monday on UR-1, setting up for IS/ST.

17. 200-LW-1/200-LW-2

- Schedule Review
 - Status of Field Work – 216-S-20 complete; 216-T-28 drilling @ ~20'; B-58 complete. Delays in drilling 216-S-7 borehole will continue to impact the schedule. The 216-Z-7 borehole was originally scheduled for completion by the end of FY 2004; however, it has been delayed until the 216-S-7 borehole is completed because of limited resources and a determination that the 216-S-7 borehole is a higher priority.

18. 200-MW-1

- Schedule Review
 - Status of Field Work – 216-A-4 crib on hold – compiling data to assess recommendation for path forward. U-3 setup following T-28; T-33 being set up; setting up for test pits.

19. 200-UR-1

- Schedule Review
 - Status of DQO and Work Plan – Evaluating impacts to include West Lake. TPA change package approved. Formal responses meeting on Monday. Oregon responses sent to RL.

20. 200-SW-1/2

- Schedule Review
 - Status of DQO and Work Plan – The work plan is being prepared to meet the existing TPA schedule. In response to a question from DOE-RL, Ecology indicated that the proposed meeting between Ecology and DOE-RL will be scheduled after Ecology has obtained a facilitator for the meeting.
 - Reassignment of Trench 94 and Integrated Disposal Facility – FH is compiling a list of waste sites that need administrative changes. Ecology said that DOE can assume that Trenches 31 and 34 will remain in the 200-SW-2 OU, but that this needs to be confirmed with Ecology management.
- Ecology Staff Changes – J. Stults will be the Ecology lead for 200-SW-1 and 200-SW-2 OUs.

**200 Area Unit Managers' Meeting
200 Area Remedial Action Float Table
October 2004**

Task	Scheduled Date	Float	Comments
200-CS-1			
Deliver Rev. 0 RI Report for Regulatory Agency Approval	10/31/04	-21 d	Met with Ecology on 9/30 to discuss comments received on 9/17; reached consensus on Ecology comments but revisions require additional time; John Price was amenable to revising the due date. RL is preparing a letter to reset the date to 11/30/04.
Deliver Draft A FS/PP for Regulatory Agency Review	11/30/05	--	On schedule
200-CW-1			
Deliver Draft B FS for Regulatory Agency Review	7/3/03 (original date based on receipt of regulatory agency comments 45 calendar days after submittal (which would be 5/15/03) with 45 days to revise and reissue)	-435-d	Regulatory agency comments originally due on 5/15/03; policy level comments received on that date; Ecology indicated additional comments would be coming; additional informal comments were received on 6/25/04; further delays are associated with funding issues, priority of this FS compared to other FSs, and Ecology's suggestion to look at accelerating confirmatory sampling
	1/30/05 (new target date based on collecting spring samples and incorporating data into the revision)	--	Schedule revised due to delays at analytical laboratory. New schedule delivery due to funding shortfalls for FY05
200-LW-1			
Deliver Draft A RI Report for Regulatory Agency Review	10/31/05	--	On schedule
200-PW-2			
Ecology approve Rev 1 RI/FS work plan	2/14/03	--	Work Plan approved
Deliver Draft A RI Report	6/30/04	--	Delivered 6/24/04. Ecology requested 60 day extension to review document. Comments expected 10/18.

**200 Area Unit Managers' Meeting
200 Area Remedial Action Float Table
October 2004**

Task	Scheduled Date	Float	Comments
for Regulatory Agency Review			
Deliver Draft A FS/PP for Regulatory Agency Review	12/31/05	--	On schedule
200-SW-1/200-SW-2			
Brief Ecology on DQO Approach	7/8/04	--	Initial briefing conducted on 7/8/04. A subsequent briefing was conducted on 9/3/04. On 10/7, Ecology and DOE-RL agreed to discussions to resolve issues relating to work scope. Schedule for discussions is TBD. Resulting impacts to the work plan schedule will be assessed.
Deliver draft A RI/FS work plan for regulatory Agency review	12/31/04	--	On schedule
Deliver Waste Control Plan for regulatory Agency review	4/15/05	--	On schedule
Start field sampling	7/27/05	--	On schedule
Deliver Draft A RI Report for Regulatory Agency Review	9/19/07	--	On schedule
200-TW-1 (includes 200-TW-2)			
EPA/Ecology approve RI Report	7/10/03	-448-d	Modeling results delivered on 5/21/04 to regulatory agency. Meeting with USGS held for 9/08/04 to resolve differences. Issue resolution is ongoing
Deliver Draft A FS/PP for Regulatory Agency review	3/31/04	--	Comments received and document modification underway
Revise FF/PP for Region 10 review	5/18/04	-120-d	Request from regulatory agency to separate BC Cribs and Trenches to a standalone FFS/PP and withdrawal of the TW1/2 FS/PP. Issue is being worked between RL and regulatory agency. FS and PP on hold with a new

**200 Area Unit Managers' Meeting
200 Area Remedial Action Float Table
October 2004**

Task	Scheduled Date	Float	Comments
			delivery date of 1/06
BC Crib Focused Feasibility Study	9/30/04	-15	Document delayed until 11/30/04 due to extensive fate and transport modeling.
200-UR-1			
Deliver draft A RI/FS work plan for regulatory Agency review	6/30/04	--	Delivered 6/30/04
Deliver Waste Control Plan for regulatory Agency review	3/1/2006	--	On schedule
Start field sampling	4/26/06	--	On schedule
Deliver Draft A RI Report for Regulatory Agency Review	5/14/07	--	On schedule
200-UW-1			
Obtain Regulatory Agency/RL concurrence on SAP	7/29/04	-82-d	Workshop to address additional comments held on 9/23/04. Additional sample locations under discussions
RL Transmit Draft C to Regulatory Agency	9/15/04	-36-	Draft C FS and PP scheduled for delivery to Regulatory Agencies 1/4/05.
Initiate confirmatory sampling	11/1/2004	--	Held work shop with RL and Regulatory Agencies on 9/27-28/04. Confirmation sampling deferred until total number of sample locations agreed to with Regulatory Agencies.
200-IS-1/200-ST-1			
Deliver Rev. 1 RI/FS work plan	12/31/04	--	On schedule
Deliver Waste Control Plan for regulatory agency	1/24/05	--	On schedule

**200 Area Unit Managers' Meeting
200 Area Remedial Action Float Table
October 2004**

Task	Scheduled Date	Float	Comments
review			
200-PW-1/200-PW-3/200-PW-6			
Deliver Draft A RI Report for Regulatory agency Review	6/30/06	--	On schedule
200-MW-1			
Deliver Draft A RI Report for Regulatory agency Review	12/31/05	--	On schedule
200-CW-5/200-CW-2/200-CW-4/200-SC-1			
Deliver Rev. 1 RI/FS work plan	M-013-22 met on schedule; Rev. 0 work plan approved 9/28/02. Consolidation TPA change package approved 6/5/02. Rev. 1 originally scheduled to be delivered 5/6/03	0 d	Submitted to EPA on 9/20/04
Deliver Rev. 0 RI Report	9/1/03 (original date based on receipt of regulatory agency comments on 7/15/03 with 45 days for revision)	0 d	Submitted to EPA on 8/30/04
Deliver Draft A FS/PP for Regulatory agency Review	10/31/04	--	On schedule
200 Area Common - Ecological			
Central Plateau Ecological Evaluation	7/16/04	-102-d	New schedule date 10/26/04
Central Plateau Ecological DQO	4/22/04	-224-d	New schedule date 12/2/04
Central Plateau	6/28/04	-136-d	New schedule date 11/11/04

**200 Area Unit Managers' Meeting
200 Area Remedial Action Float Table
October 2004**

Task	Scheduled Date	Float	Comments
Ecological SAP			

200 Area UMM – October 2004

200-UP-1:

- Average Pumping Rate (counting all outage time as 0 gpm) for January 26 through October 10 is approximately 51.1 gpm.
- From August 23 through September 30, the system operated between 46.7 and 51.3 gpm.
- The system was shutdown for 7 hours August 26 and 7.5 hours on September 28 for an ERDF leachate transfer. Extraction well 299-W19-39 shutdown for approximately 5 hours on September 19 due to low water level.
- System Run Time

➤ For August 23 through September 30	98.4%
➤ FY2004 (Year to date)	91.9%
➤ System Inception to date	92.5%
- RI/FS Work Plan Draft B – We will be holding a 4th meeting with Ecology in the next week or so to fully address well completion and well network comments.
- Need Ecology status on their review of the 200-UP-1 Operating Plan for a rebound study.
- Important Milestones:

➤ July 12, 2005 – G2U40195 , DOE-RL submits Draft A RI Report to Regulators
➤ April 5, 2007 – G2U54160 , Issue Draft A FS Report to Regulators
- New monitoring well "P" and "R" are currently being constructed (see attached map). Drilling of new well "K" has started (~100 ft below ground surface). These wells were scheduled to installed last spring, but encountered drilling delays.
- Work on the RI Report was scheduled to re-start October 1, but due to drilling delays, data from these wells will not be available until early December.

200-ZP-1:

- Average Pumping Rate for FY04 through September 30: 142 gpm
- From August 23 through September 30, the system operated at 205 gpm.
- System was shutdown for a short period on August 27 and 30 due to broken gas analyzer. System was shutdown for 2 hours on September 20 for a GAC change-out.
- System Run Time

➤ For August 23 through September 30	93.4%
➤ FY2004 (Year to date)	95.6%
➤ System Inception to date	92.6%

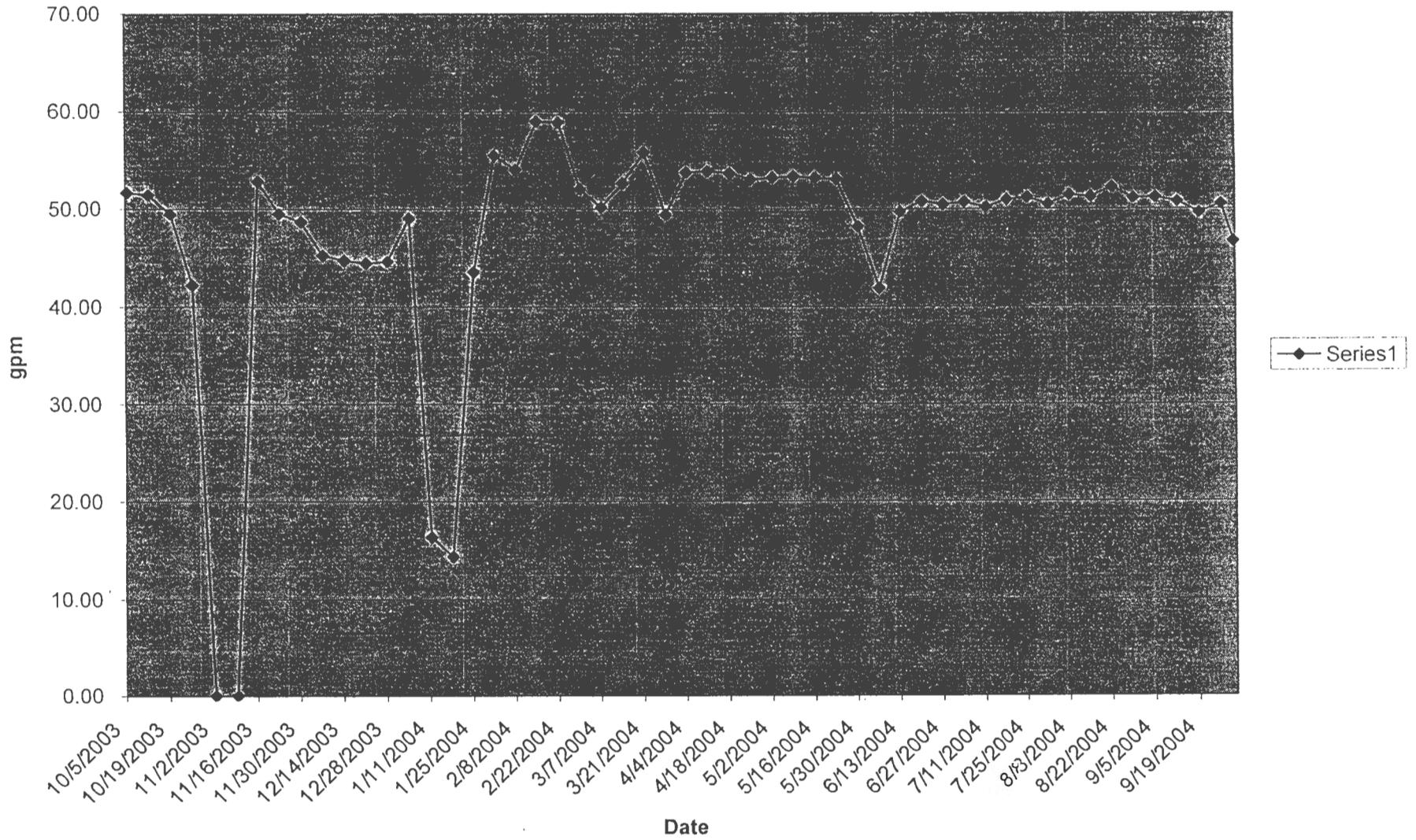
- Regarding ZP-1 pump-and-treat expansion:
 - Design work started October 1 as scheduled.
 - Next week we will be re-looking at the implementation schedule to see if we can speed-up the schedule for getting new extraction wells online.
 - After getting concurrence from Brenda Becker-Khaleel, DOE-RL is in the process of issuing a letter to Ecology noting that we will be using single-walled above-ground piping for the ZP-1 expansion combined with daily inspections. This is consistent with WAC 173-303-640 (4) (f)-

*Send to EPA
+ Ecology*

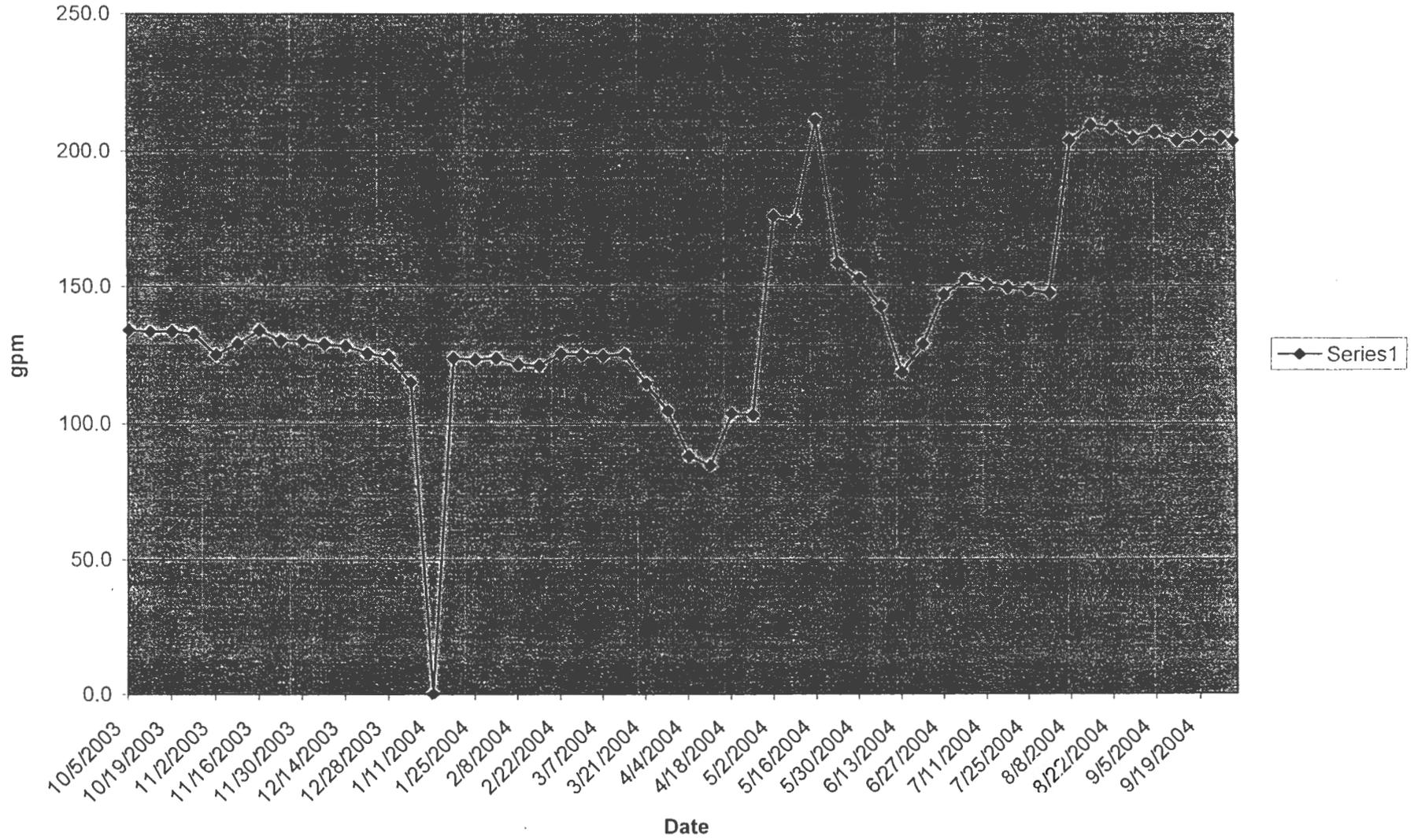
200-PW-1 (200-ZP-2):

- Average Air Flow Rate for August 23 through September 30: 336 CFM
- System was shutdown week of September 30 to relocate to vicinity of Z-9
- Active system will be shutdown October 31, 2004
- The passive system remains operational

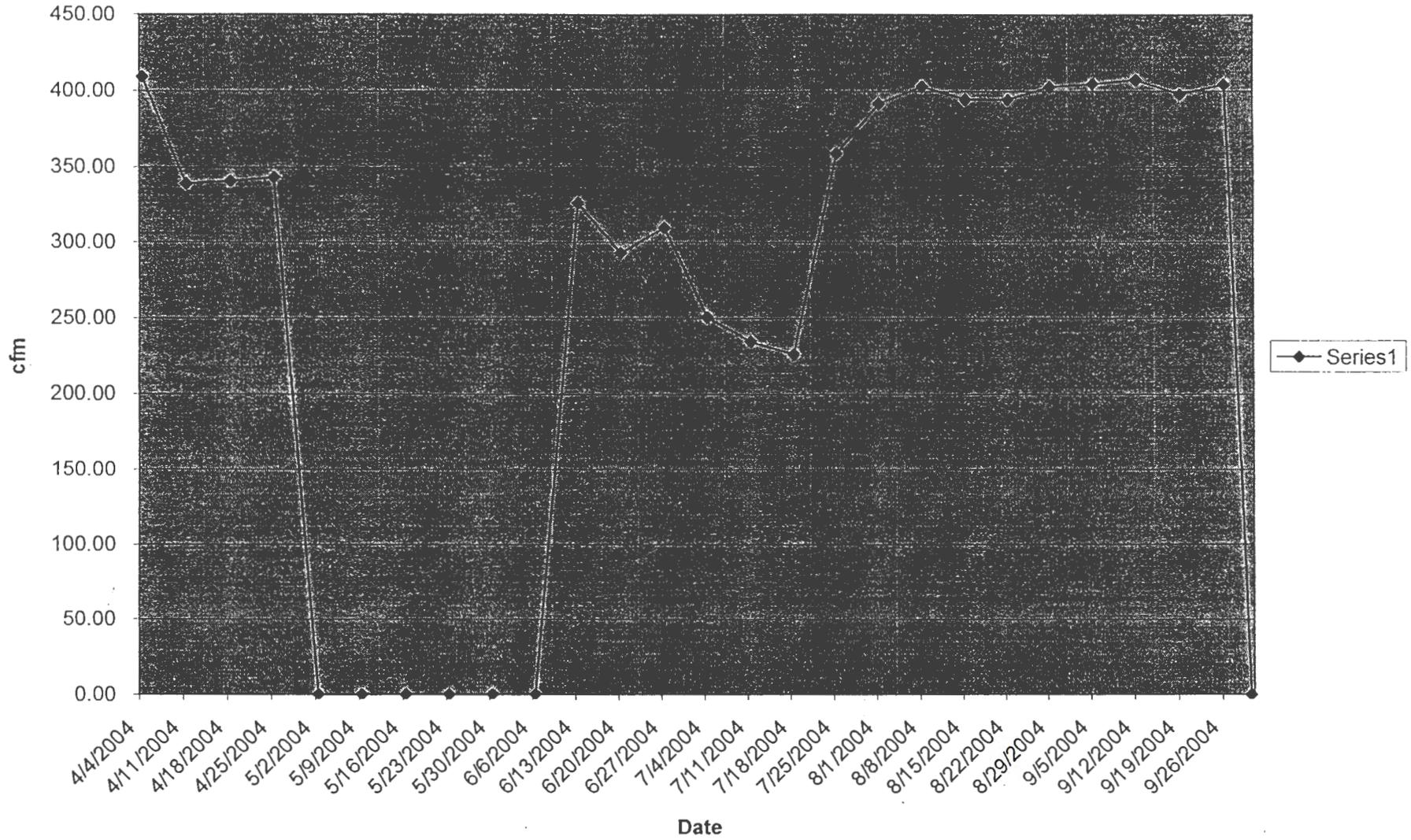
200-UP-1 Average Pumping Rates for FY2004

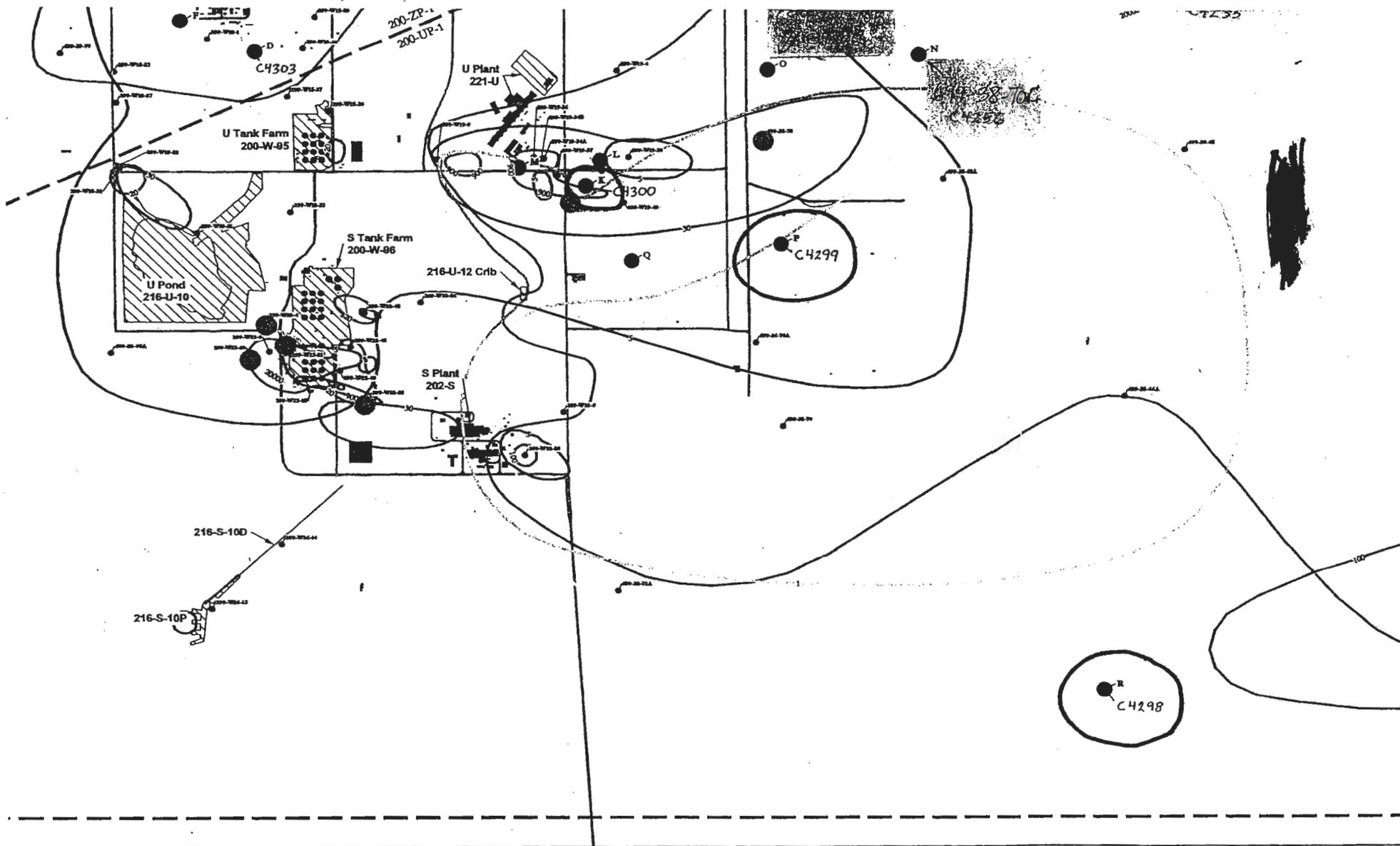


200-ZP-1 Average Pumping Rate for FY2004



200-ZP-2 Average Flow Rates for FY2004





Comparison of Maximum Carbon Tetrachloride Rebound Concentrations
Monitored at 200-PW-1 Soil Vapor Extraction Sites
FY 1998 - FY 2004

200-PW-1 (200-ZP-2)		July 1998 - September 1999		July 1999 - June 2001		July 2001 - June 2002		July 2002 - September 2003		July 2002 (Z-9) or October 2003 (Z-1A) - March 2004		July 2002 (Z-9) or April 2004 (Z-1A) - September 2004	
Location (Well or Probe)	Site	Maximum Rebound Carbon Tetrachloride (ppmv)	months* of rebound	Maximum Rebound Carbon Tetrachloride (ppmv)	months* of rebound	Maximum Rebound Carbon Tetrachloride (ppmv)	months* of rebound						
79-03/ 5 ft	Z-18	0	12										
79-06/ 5 ft	Z-1A	1.4	12										
79-11/ 5 ft	Z-1A	2.9	12										
86-05/ 5 ft	Z-9	0	3										
86-05-01/ 5 ft	Z-9	0	3										
86-06/ 5 ft	Z-9	1.9	6										
87-05/ 5 ft	Z-1A	1.0	12										
87-09/ 5 ft	Z-1A	2.6	12										
94-02/ 5 ft	Z-9	1.4	3										
95-11/ 5 ft	Z-9	2.5	6										
95-12/ 5 ft	Z-9	1.3	6										
95-14/ 5 ft	Z-9	0	3										
CPT-13A/ 9 ft	Z-1A	1.0	12										
CPT-16/ 10 ft	Z-9	1.5	6										
CPT-17/ 10 ft	Z-9	5.1	6	6.6	24	3.2	6	6.6	15	9.0	21	9.9	27
CPT-18/ 15 ft	Z-9	5.0	6	5.2	24	1.4	6	2.4	15	2.4	21	2.5	27
CPT-4A/ 25 ft	Z-1A	not measured		3.5	0	3.4	10						
CPT-4E/ 25 ft	Z-1A	not measured		not measured		2.6	12	1.3	0			2.4	0
CPT-16/ 25 ft	Z-9	not measured		1.8	24	1.1	6	2	15	2.6	21	3.6	27
CPT-31/25 ft	Z-1A	0	12										
CPT-32/ 25 ft	Z-1A	10	12	16.5	18	13.0	12	8.3	6	6	6		
CPT-30/ 28 ft	Z-18	3.2	12	1.4	18	0	12	0	6	0	6		
CPT-13A/ 30 ft	Z-1A	not measured		3.6	18	2.6	12	1.6	6	2	6	1.9	0
CPT-7A/ 32 ft	Z-1A	5.4	12	6.2	18	5.6	12	3.9	6	9.5	6	1.9	0
CPT-27/ 33 ft	Z-9	not measured		2.6	24	1.5	6	1.7	15	2.7	21	2.7	27
CPT-1A/ 35 ft	Z-12	3.0	12	7.7	18	11.3	12	22.0	15	18.3	6	18.0	0
CPT-28/ 40 ft	Z-9					56.5	6						
CPT-33/ 40 ft	Z-1A	2.6	12			2.3	12						
CPT-34/ 40 ft	Z-18	1.7	12	1.9	0	2.2	12	1.6	0			1.8	0
CPT-21A/ 45 ft	Z-9	57	3	127	24	133	6	90.0	15	150	21	150	27
W15-220ST/ 52 ft	Z-9	1.6	3	2.5	24			1.5	1				
CPT-28/ 60 ft	Z-9	3.7	3										
CPT-9A/ 60 ft	Z-9	44	3	68	24	45.3	6	35.9	15	35.9	21	35.9	27
CPT-16/ 65 ft	Z-9	not measured		not measured		not measured		4.2	15			4.2	27
CPT-1A/ 68 ft	Z-12	not measured		not measured		5.5	12						
CPT-30/ 68 ft	Z-18	3.0	12										
CPT-32/ 70 ft	Z-1A					7.7	12						
CPT-13A/ 70 ft	Z-1A	5.6	12										
CPT-24/70 ft	Z-9	3.6	3					4.7	15			9.1	27
W15-219SST/ 70 ft	Z-9	7.6	3	7.8	24			1.9	1			9.5	22
CPT-18/ 75 ft	Z-9	not measured		18	24			4.5	15			8.3	27
CPT-4A/ 75 ft	Z-1A	not measured		not measured		7.1	3						
CPT-31/ 76 ft	Z-1A	4.2	12										
CPT-33/ 80 ft	Z-1A	9.2	12										
W15-82/ 83 ft	Z-9	46	6	55	24	66.7	6	85.8	15	85.8	21	85.8	27
CPT-21A/ 86 ft	Z-9	148	6	195	24	186	6	206	15	244	21	244	27
CPT-34/ 86 ft	Z-18	0	12										
W15-95U/ 86 ft	Z-9	39	6	43	21								
W15-218SST/ 86 ft	Z-9	0	3					1.6	2				
CPT-28/ 87 ft	Z-9	203	6	224	24	229	6	235	15	258	21	258	27
CPT-4B/ 90 ft	Z-1A					3.2	10						
CPT-1A/ 91 ft	Z-18	4.2	12			10.7	10						
CPT-4A/ 91 ft	Z-1A	14	12			7.5	2						
CPT-9A/ 91 ft	Z-9	72	3			74.3	6						
W15-85/ 91 ft	Z-9	not measured		51	24								
W18-252SST/ 100	Z-1A	24	12										
W18-152/ 101 ft	Z-12	33	12	25	18	25.7	12	20.7	6	12.4	6		
CPT-4E/ 103 ft	Z-1A	not measured		not measured		16.1	12						
W18-167/ 106 ft	Z-1A	228	12	248	18	297	12	243	6	266	6		
W18-165/ 109 ft	Z-1A	not measured		not measured		278	12	328	6	205	6		
W15-217/ 114 ft	Z-9	561	6	442	24	93.6	6	444	15	458	21	467	27
CPT-24/ 118 ft	Z-9	37	6	35	24			27.8	15			15.3	27
W15-220SST/ 118	Z-9	36	3	34	24			27.5	3			26.0	27
W18-158L/ 120 ft	Z-1A	492	12	284	18	163	3						
W15-219SST/ 130	Z-9	47	3	54	24			23.1	1			5.7	22
W18-249/ 130 ft	Z-18	215	12	176	18	196	12	46.3	6	41.0	6		
W18-248/ 131 ft	Z-1A	177	12	214	18	306	12	182	6	180	6		
W15-95L/ 144 ft	Z-9	not measured		not measured		31.8	6	25.1	15	40.3	21	40.3	27
W15-219SST/ 155	Z-9	24	3	44	24			6.8	1			0	22
W15-220L/ 163 ft	Z-9							-----	15			8	27
W15-219L/ 175 ft	Z-9							-----	15			23	27
W15-9L/ 176 ft	Z-9	15	6	20	21	16.9	6	13.1	15	13.1	21	13.1	27
W15-84L/ 180 ft	Z-9	not measured		not measured		not measured		25.9	15	25.9	21	25.9	27
W15-6L/ 182 ft	Z-9	1.3	6										
W15-220SST/ 185	Z-9	13	3	15	24			-----	1				
W18-7/ 197 ft	Z-1A	29	12										
W18-12/ 198 ft	Z-18	19	12										
W18-6L/ 208 ft	Z-1A	15	12										

* based on location (Z-1A/18/12 or Z-9) of monitoring point, specific points may be beyond SVE zone of influence during particular operating configurations
 - Z-18 and Z-12 wells off-line Oct 96 - Apr 98
 - CPT-1A, CPT-9A, and possibly CPT-7A appeared to be beyond SVE zone of influence in Oct 96 based on differential pressure (BHI-01105, p. 6-1)
 - CPT-9A, CPT-21A, CPT-28 beyond SVE zone of influence in May 96 based on CCl4 concentrations and airflow modeling based on measured vacuums (BHI-01105, p. 6-1)

Carbon Tetrachloride Rebound Concentrations
Monitored at 200-PW-1 Soil Vapor Extraction Sites
October 2003 - September 2004

200-PW-1 (200-ZP-2)		10/31/2003	12/04/2003	12/22/2003	01/20/2004	02/19/2004	03/16/2004	03/24/2004	04/29/2004	05/05/2004	06/03/2004	06/24/2004	07/15/2004	07/23/2004	08/26/2004	10/07/2004			
Location (Well or Probe) /feet bgs	Site	CCI4 (ppmv)	CCI4 (ppmv)	CCI4 (ppmv)	CCI4 (ppmv)	CCI4 (ppmv)	CCI4 (ppmv)	CCI4 (ppmv)	CCI4 (ppmv)	CCI4 (ppmv)	CCI4 (ppmv)	CCI4 (ppmv)	CCI4 (ppmv)	CCI4 (ppmv)	CCI4 (ppmv)	CCI4 (ppmv)			
CPT-17/ 10 ft	Z-9	3.2	4.1	2.7	5.8	5.0	---	(c)	9.0	7.0		9.9	9.0	7.4		6.7	6.6		
CPT-18/ 15 ft	Z-9	0	1.1	1.0	1.5	1.4	---	(c)	1.6	1.2		2.5	2.5	---	(e)	0	0		
CPT-4E/ 25 ft	Z-1A									1.7		1.4	2.0	2.4		0	0		
CPT-16/ 25 ft	Z-9	2.6	1.2	1.4	0	1.7	2.2			1.8		1.4	3.6	---	(e)	1.3	1.2		
CPT-32/ 25 ft	Z-1A	0	0	0	2.4	5.1	5.9												
CPT-30/ 28 ft	Z-1A	0	0	0	0	0	0												
CPT-13A/ 30 ft	Z-1A	0	0	0	0	0	1.8			1.4		1.5	1.8	1.9		0	0		
CPT-7A/ 32 ft	Z-1A	2.4	3.0	2.7	4.3	3.0	9.5			1.7		1.9	1.7	1.6		1.21 (f)	1.5		
CPT-27/ 33 ft	Z-9	1.1	0	1.1	1.5	2.0	2.7			2.5		1.4	2.2	1.2		0	0		
CPT-1A/ 35 ft	Z-12	18.3	9.5	13.1	10.8	6.0	9.0			4.2		10.7	9.0	5.2		18.0	3.2		
CPT-34/ 40 ft	Z-18									1.4		1.1	1.0	0		1.6	1.8		
CPT-21A/ 45 ft	Z-9	52.3	89.1	68.5	59.2	71.8	---	(c)	150	59.2		136	81.9	34.0		92.5	86.7		
CPT-9A/ 60 ft	Z-9	25.9	33.1	30.8	24.3	33.8	27.1			25.7		28.3	26.0	24.8		---	(g)	26.7 (h)	
CPT-9A/ 50 ft	Z-9																	45.8 (h)	
CPT-9A/ 64 ft	Z-9																	0 (h)	
CPT-16/ 65 ft	Z-9									3.1		4.0	1.5	---	(e)	4.2	2.9	2.7	
CPT-24/ 70 ft	Z-9									4.4		4.4	9.1	5.0		4.2	4.2	4.6	
W15-219SST/ 70 ft	Z-9									9.5									
CPT-18/ 75 ft	Z-9									8.0		6.2	4.7	---	(e)	6.3	8.3	0	
W15-82/ 83 ft	Z-9	24.0	34.4	43.1	47.5	45.9	50.5			83.1		0	85.4	81.3		71.2	7.9		
CPT-21A/ 86 ft	Z-9	91.8	183	171	244	98.1	---	(c)	212	73.3		177	157	95.7		40.5	80.5		
CPT-28/ 87 ft	Z-9	155	206	140	56.7	96.1	---	(c)	258	26.8		222	164	227		222	218		
W18-152/ 101 ft	Z-12	5.7	10.5	11.3	10.5	12.4	12.1												
W18-167/ 106 ft	Z-1A	201	223	201	266	201	---	(b)											
W18-165/ 109 ft	Z-1A	94.2	205	193	188	186	94.8												
W15-217/ 114 ft	Z-9	53.8	80.4	66.4	82.5	62.0	---	(c)	458	256		377	257	467		63.1	264		
CPT-24/ 118 ft	Z-9									5.3		15.3	8.5	6.9		2.8	8.5		
W15-220SST/ 118 ft	Z-9										26.0	18.7	18.5	15.7		9.0	0		
W18-249/ 130 ft	Z-18	8.0	31.1	21.4	19.6	22.1	41.0												
W15-219SST/ 130 ft	Z-9									5.7									
W18-248/ 131 ft	Z-1A	78.6	80.4	85.6	90.9	166	180												
W15-95L/ 144 ft	Z-9	19.2	20.3	---	(a)	---	(a)	40.3	23.0			35.0	22.0	28.1	---	(e)	18.6	22.7	18.5
W15-219SST/ 155 ft	Z-9									0									
W15-220L/ 163 ft	Z-9									7.5		6.4	0	0		5.7	0		
W15-219L/ 175 ft	Z-9									---	(d)	23.0	2.9	0	---	(e)	0	0	
W15-9L/ 176 ft	Z-9	6.1	5.8	---	(a)	---	(a)	9.1	9.6			8.8	10.1	11.9	---	(e)	10.9	9.0	6.6
W15-84L/ 180 ft	Z-9	4.7	4.9	4.9	10.7	18.5	---	(c)	19.5	15.6		16.4	20.9	18.1		17.7	10.7		
		(a) Unable to access because of drilling operations																	
		(b) Unable to sample; tubing will be repaired.																	
		(c) anomalously low due to pump problems; resampled on 3/24/04																	
		(d) unable to install sample tubing; sampled W15-219SST/70 ft, W15-219SST/130 ft, and W15-219SST/155 ft instead																	
		(e) Unable to access																	
		(f) condensate in tubing																	
		(g) Unable to access; aboveground tubing damaged by construction vehicle.																	
		(h) Depths to probes measured through existing tubing. 60 ft deep probe confirmed and sampled. The other two depths measured (50 ft and 64 ft) could not be correlated to original depths (70 and 91 ft); these two probes were sampled also.																	

**Carbon Tetrachloride Concentrations
Monitored at 200-PW-1 Passive Soil Vapor Extraction Wells**

200-PW-1 (200-ZP-2)		6/1/2001	12/10/2002	01/20/2003	03/04/2003	05/07/2003	09/09/2003	10/29/2003	02/25/2004	04/12/2004	10/11/2004
Location (Well or Probe) /feet bgs	Site	CCl4 (ppmv)									
W18-6L/ 208 ft	Z-1A	47.4	29.2	19.6	34.8	20.2	---- (a)	22.1	23.4	23.8	8.6
W18-7/ 197 ft	Z-1A	38.5	36.8	28.9	26.4	23.0	---- (a)	23.7	18.6	35.9	18.6
W18-10L/ 183 ft	Z-18	12.8	14.7	11.1	15.1	2.5	2.5	9.1	10.1	9.6	4.3
W18-11L/ 199 ft	Z-18	11.4	7.7	---- (a)	9.9	---- (a)	0				
W18-12/ 198 ft	Z-18	30.5	---- (a)	---- (a)	---- (a)	7.9	5.4	13.4	13.0	11.4	1.4
W18-246L/ 170 ft	Z-18	40.9	---- (a)	31.1	33.1	10.3	---- (a)	20.3	29.4	47.7	14.7
W18-247L/ 167 ft	Z-18	7.2	5.7	8.5	8.1	2.4	2.4	2.4	4.3	4.6	0
W18-252L/ 175 ft	Z-18	38.1	22.7	---- (a)	24.4	23.1	---- (a)	16.2	37.7	22.7	0
(a) Unable to sample.											

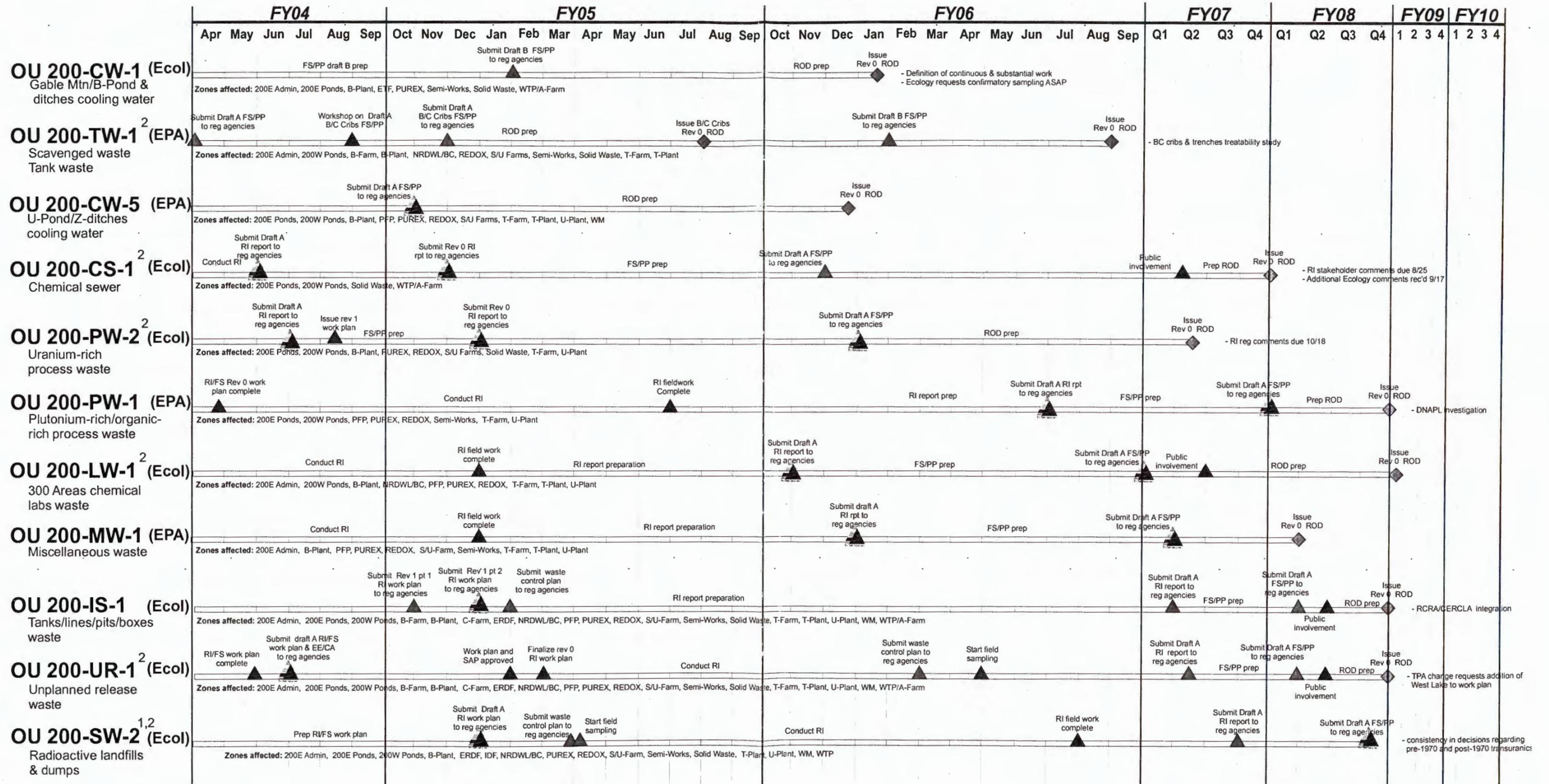
Table A-3. Decommissioning Well List

(This list will be updated as wells are identified for decommissioning, and will be provided at the 200 Areas Unit Manager's Meeting, and included in the UMM minutes)

FY 2004		
Well Name	Well Name	Well Name
299-W6-5	299-W11-17	299-W15-22
299-W6-8	299-W11-19	299-W15-23
299-W10-6	299-W11-20	299-W15-24
299-W10-7	299-W11-21	299-W15-25
299-W10-9	299-W11-24	299-W18-2
299-W10-18	299-W11-27	299-W18-4
299-W11-1	299-W11-29	299-W18-5
299-W11-2	299-W11-35	299-W18-8
299-W11-2P	299-W11-35P	299-W18-26
299-W11-2Q	299-W11-35Q	299-W18-82
299-W11-2R	299-W14-10	299-W18-88
299-W11-2S	299-W14-12	299-W18-177
299-W11-2T	299-W14-59	299-W18-179
299-W11-4	299-W14-60	699-37-82B
299-W11-5	299-W14-61	699-37-82BP
299-W11-8	299-W15-10	699-37-82BQ
299-W11-9	299-W15-12	699-37-82BR
299-W11-11	299-W15-18	699-37-82BS
299-W11-15	299-W15-19	699-51-63
299-W11-16	299-W15-20	
FY 2005		
Well Name	Well Name	Well Name
299-W10-2	299-W14-10	299-W18-164
299-W14-1	299-W15-4	699-37-82A
299-W14-2	299-W15-14	299-W15-63*
299-W14-3	299-W-15-62	299-W15-64*
299-W14-4	299W15-202	299-W15-78*
299-W14-7	299-W18-3	

* Optional wells that could replace one or more of the above that are planned for FY05, or that might be decommissioned should there be funding remaining within this subcontract.

CENTRAL PLATEAU D&D



General OU Notes:

- 1 TRU retrieval issue
- 2 Central Plateau Ecological Evaluation Report (Rev 0 report & Rev 0 SAP finalization in progress)

- ▲ Document to Reg Agencies
- ▲ Key Event
- ▲ TPA Milestone
- ◆ Decision/Final Document
- ◆ Remedial/Removal Action Starts



ATTACHMENT 3B
200-BP-5 OPERABLE UNIT GROUNDWATER WELL
DECOMMISSIONING LIST

(This list will be updated as wells are identified for decommissioning, and will be provided at the
200 Areas Unit Manager's Meeting, and included in the UMM Minutes)

FY 2004

299-E26-1
299-E26-9
299-E28-16
299-E28-3
299-E33-11
299-E33-19
299-E34-11
299-E34-3
299-E34-4
299-E34-6
299-E35-1
699-47-46A
699-51-63
699-52-46B
699-52-54
699-53-48B
699-55-50A
699-55-50AP
699-55-50AQ
699-55-50D
699-56-51

FY 2005

299-E28-12
299-E28-19
299-E28-20
299-E28-22
299-E28-29
299-E33-22
299-E33-23
299-E33-6
299-E34-1
699-50-48A
699-55-60B