

**Meeting Minutes Transmittal/Approval
Unit Managers' Meeting
200 Area Groundwater and Source Operable Units
1200 Jadwin Avenue, Richland, Washington
September 16, 2004**

0063949

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

APPROVAL: *Larry Romne* Date: 2-17-05
Larry Romne, 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

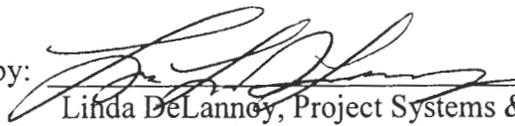
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Meeting minutes are attached. Minutes are comprised of the following:

| | | |
|--------------|----|---|
| Attachment 1 | -- | Agenda |
| Attachment 2 | -- | Attendance Record |
| Attachment 3 | -- | 200 Area UMM Minutes – September 16, 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 |

Prepared by:

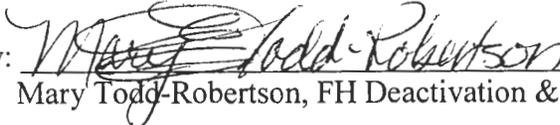


Linda DeLaney, Project Systems & Support (H8-49)

Date

2/9/05

Concurrence by:



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

Date

2/9/05

**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

September 16, 2004

9:00 AM-10:45

Issues Resolution Meeting

- Review of Issues Table from August UMM

10 45 a.m. – Noon

General (15 minutes)

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

Central Plateau Closure (5 min)

- Decision/issues framework discussion

U Plant Area (10 minutes)

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

BC Cribs Area Closure (5 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

General (5 minutes)

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
September 16, 2004**

Please print clearly and use black ink

| PRINTED NAME | ORGANIZATION | O.U. ROLE | TELEPHONE |
|----------------|--------------|-------------------|-----------|
| JULIA BROWNING | FH-DED | Minutes | 373-4456 |
| Arlene Tortoso | DOE-RL | 200-Area GW | 373-9631 |
| STEVE BOWEN | DOE-RL | WASTESITES | 376-6221 |
| Kevin Leary | DOE-RL | U-Plant | 373-7285 |
| Ron Jackson | FH | U-Plant | 373-3599 |
| Jenire Stubbs | Ecology | OUS | 372-7956 |
| Dave Erb | FH | 200W-CW IS-1 | 373-4457 |
| Larry Rounne | RL | 200A | 376-4747 |
| Bruce Ford | FH | GW Remed Proj | 373-3809 |
| Larry Dusek | FH | Fac + Waste Sites | 373-2465 |
| Larry Hulstrom | FH | 200A | 373-3928 |
| John Price | Ecology | Proj. Mgr. | 372-7924 |
| Bryan Foley | DOE-RL | 200A | 376-7087 |
| Craig Cameron | EPA | 200A | 376-8665 |
| Dennis Faulk | ZPA | 200 Area RPA | 376-8631 |
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| | | | |

Browning, Sylvia L

Subject: Unit Managers' Status Meeting
Location: 1200 Jadwin/Room 1-C1

Start: Thu 9/16/2004 10:45 AM
End: Thu 9/16/2004 12:00 PM

Recurrence: Monthly
Recurrence Pattern: the third Thursday of every 1 month from 10:45 AM to 12:00 PM

Meeting Status: Meeting organizer

Required Attendees: ^GP Programs; Hulstrom, Larry C; Jackson, Ronald L; Jentzen, Brenda; Koerner, Chris C; Luttrell, Stuart P; McMahon, William J; Rohay, Virginia J; Tortoso, Arlene C; Vanni, Jeanne; Wittreich, Curtis D; Faulk, Dennis A (Dennis_A_Faulk@rl.gov); ^GWP Environmental; Perry, Jon K; Winterhalder, John A; Hamar, Alicia; Leary, Kevin D; Zinsli, Lloyd C; Bond, Rick; Mills, Matt; 'gpriddy@aol.com'; Myers, David A (Dave); Todd, Mary E; Benecke, Mark W; Erb, David; Rochette, Beth; Romine, Larry D; Clark, Clifford E (Cliff); Gurske, Richard H; Morse, John G; Charboneau, Briant L; Jackson, Zelma; Smith-Jackson, Noel; Becker-Khaleel, Brenda; Goswami, Dibakar; Hamar, Alicia; Hickey, Michael; Price, John (ECY); Bertness, Steven L; Browning, Sylvia L; Brownell, Helen; Cameron, Craig; Faulk, Dennis; Goldstein, Mike; Jennings, Adam R; 'JEST461@ECY.WA.GOV'

Optional Attendees: Bergman, Theresa B; Dusek, Lansing; Murphy-Fitch, Eileen J; Veitenheimer, S J (Steve); Wilde, Richard T; Robertson, Julie R; Hilliard, James R (Jim); Larsen, Astrid P; Petersen, Scott W; LeBaron, Gregory J; Ruck, Fred A III; Miskho, Anthony G; Thornton, Edward C

Meeting requested by Bruce Ford
 Meeting scheduled by Sylvia Browning, 373-4456

Note: UMM Status by exception ; not full status, i.e., significant changes.

9/13/04: Added Mike Goldstein and updated email addresses for Dennis Faulk and Craig Cameron.

ATTENDEES: 9/16/04

Sylvia Browning
 John Price Ecology
 Jennie Stults Ecology
 Larry Hulstrom FH
 Lanny Dusek FH
 Arlene Tortoso DOE-RL
 John Winterhalder FH
 Kevin Leary DOE-RL
 Ron Jackson FH

Mark Byrnes FH
 Virginia Rohay FH
 Eileen Murphy Fitch FH TPAI
 Craig Cameron EPA
 Bryan Foley DOE-RL
 Beth Rochette - Ecology
 Brenda L Becker-Khaleel ECY
 Jon Perry FH

MEETING MINUTES
200 AREA UNIT MANAGERS' MEETING -- 200 AREA
September 16, 2004

Agenda: See Attachment #1

Attendees: See Attachment #2

Table of Issues: September 16, 2004

| IAMIT | UMM | ISSUES | AGREEMENTS | FOLLOW- ON ACTION | LESSONS LEARNED |
|-------|-----|---|--|--|-----------------|
| X | X | ROD Strategy | This issue will be tracked in UMM but resolution is currently at IAMIT work group level. | Monthly status until agreement reached. EPA/Ecology sending letter on priority of responding to their email proposals. Plan on RODs for all OUs. | |
| | X | RCRA/CERCLA Integration | UW-1 should be used as example | October – EPA Status – Captured process in Lessons Learned. | |
| | X | SW-2 OU – Ecology requested task-level schedule and float in accordance with TPA. <ul style="list-style-type: none"> • Ecology will use task-level schedule to evaluate whether RL can meet 12/31/08 milestones to complete RI/FS. | | <ul style="list-style-type: none"> • RL response to Ecology letter due by 9/22. • FH Staff have been reviewing the INEEL WAG7 information. | |
| | X | <ul style="list-style-type: none"> • Ecology requested target milestones for U Plant pipelines. Would like to have EE/CA by 3/31/05. • 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 9/10. | | <ul style="list-style-type: none"> • RL to respond at Oct. UMM. • Should include ORP in discussions. • Ecology going to pursue target milestones. • Discuss due date for Tri-Party response to HAB advice. | |
| | | <ul style="list-style-type: none"> • FY 2005 Priorities Meeting – Review of Scope | | RL set up mtg for first week in October; RL-30 October 7 in the afternoon. | |

| IAMIT | UMM | CLOSED ISSUES | AGREEMENTS | FOLLOW-ON ACTION | LESSONS LEARNED |
|-------|-----|--|---|---|---|
| | X | Points of calculation | CLOSED 8/24/04 EPA and Ecology committed to strive for consistency. | None | N/A |
| | X | IS-1 OU –RL/ORP Agreements on scope (pipeline) by Oct 2004, clear delineation of sites, TSD vs. RPP status | CLOSED 8/24/04 - RL/ORP in process of addressing issues raised by Ecology. | RL requested that the regulatory agencies help resolve issues on RCRA/CERCLA integration. | N/A |
| | | Informal transmittal of docs | CLOSED 8/24/04 | None | N/A |
| | X | Ecology is concerned with the delay of the FY 2004 Eco sampling and potential impacts to RI/FS Process. | CLOSED 8/24/04 | None | Early notification & discussions with regulatory agencies would alleviate many of the issues/ concerns. |

Issues Resolution Meeting

- Review of Issues Table From August UMM – Ecology and EPA expressed concerns regarding FY 2005 budget priorities. An agreement was reached to review Groundwater Remediation on October 7, 2004, from 1 to 3 p.m. and to review Waste Site Remediation on October 6, 2004, from 8 a.m. to 12 p.m. Ecology expressed concern over late issuance of UMM minutes and due diligence required to get the minutes out within 30 days of the UMM.
- **200-TW-1, 200-TW-2, & 200-PW-5**
 - Status of 200-TW-1 FS/PP: Revision of TW-1/2 FS has been placed on hold while a focused FS is prepared for the BC Cribs and Trenches.
 - Status of RI Report: Follow-up meeting with USGS personnel conducted September 8, 2004, that revealed some issues are not resolved. Work continues.
 - Float Table: Not clear on schedule for TW-2 and PW-5 as to when submittal is due. Remaining remedial FS is January 2006. Need to update Float Table to reflect that. Show separately next month (BC Cribs).

Unit Managers Meeting

Topics of Discussion:

1. General

- Outstanding Action Items (attached)
- Open Regulatory Topics or Action Items – None

- Start Cards – Resolved by email. Ecology asked that RL/FH makes sure internal procedure reflects the process. (Okay to remove this item for October UMM.)

2. Central Plateau Closure

- Decision/Issues/Framework Discussion – FH sending Central Plateau Closure Plan to RL by the end of September. RL is currently incorporating final comments. Ecology suggested status on groundwater operable units be reported by exception only.

3. U Plant Area

- 200-UW-1 Status
 - Proposed Plan – Preparing for RL/Agencies September 23, 2004, workshop on the 200-UW-1 PP. Attended HAB meeting on September 9, 2004, in Seattle. RL presented U Plant Area project including 200-UW-1 path forward. In addition, the HAB presented their draft advice on the U Plant Closure Area. The advice recommends: “. . .that the U Plant Area remediation activities be adequately prioritized and funded by DOE to ensure it is completed in a timely manner to facilitate 200 Area closure decisions.”
 - The Focused Feasibility Study – Study is being updated consistent with the modifications requested as part of the PP review. In concert with the FFS updates, a separate technical memo is being produced to re-evaluate the application of caisson removal as a technology for the deep contaminants.
 - Soil Waste Sites Status – Remedial design drive casing/Spectral Gamma – CH2M HILL submitted FY 2004 borehole summary report for FH internal review. Comments are due by September 17, 2004.
 - Sampling and Analysis Plan – DOE/FH will meet with Ecology on September 15, 2004, to discuss Ecology’s comments associated with the SAP.
 - Remedial Design Activities – The preliminary design (60%) was submitted to FH for RTD review on May 18, 2004. The intermediate design (90%) will be performed in FY 2005, following receipt of comments and completion of field activities supporting design needs.
 - Surface Barrier Sites Remedial Design – The complete 60% design package for all three cap sites is on schedule to be delivered September 27, 2004, to FH for review. Cost estimates are being developed with an expected completion date of November 1, 2005.
 - Barrier Performance Monitoring DQO – Detailed project schedule was revised to include participation from agencies.
 - Remedial Design Report/Remedial Action Work Plan – Preparation of the draft RDR/RAWP continues based on path forward recommendations and modifications to the proposed plan.
 - Pipeline EE/CA deferred to FY 2005 due to budget constraints.

- Ancillary Facilities – A list of ancillary facilities covered by the EE/CA was handed out at the HAB last week. Field work is scheduled to start in October. Some mobilization efforts are underway.
- 221-U Canyon Disposition Initiative – Canyon Disposition Initiative (CDI) moving on quite well; got rapid signoff in two hours. Formal transfer will be made to Ecology/EPA for concurrence then to public for review.

4. BC Cribs Area Closure

- Schedule Review
 - Status of FFS/PP – FFS due middle of October. Significant updates include latest information from Andy Ward. Dib Goswami to be invited to meeting that presents the documents.
 - Tc Plume Delineation – Getting more plume delineation (high resolution resistivity [HRR]) which shows merging contamination beneath the waste sites. Contamination associated with the 216-B-26 Trench appears to extend west under the road to merge with contamination from the 216-B-33/34 Trenches. Data suggests groundwater threat is not imminent. It is believed that silt layers are holding up the contamination. Cameron wants more information collected, i.e., such as HRR characterization and perhaps a borehole in the cribs area.
 - 216-B-26 Fate and Transport Modeling – The modeling is not yet complete.

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

- Schedule Review
 - Status of RI Report: Follow-up meeting with USGS personnel conducted September 8, 2004, revealed that some issues were not resolved. Work continues.
 - Status of FS and PP Float Table – Revision of TW-1/2 FS has been placed on hold while a focused FS is prepared for the BC Cribs and Trenches. FS is planned to be submitted January 2006. Need to update Float Table to reflect that. Will show separately next month (BC Cribs).

GROUNDWATER OPERABLE UNITS

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

- Sampling and Analysis Plans Status

7. 200-UP-1 OU

- Remediation Treatment Status – January 26 or 27, 2005, will have big download of water transferred. FH stated that backup pumps should be able to handle the load. Performance information is attached.
- RI/FS Work Plan Status – Received Ecology comments on September 3, 2004. Meeting with Ecology on September 27, 2004, to clarify comments. Mr. Goswami, Ecology, will be invited to the September 27, 2004, meeting.

- Status of New Wells, “P”, “K”, and “R” – Well P near completion; Well R below groundwater. Drilling of new Well K will follow. Missing data to support the CERCLA RI/FS process will be collected from these wells.
- Update on Rebound Study – No discussion.

8. 200-ZP-1 OU

- Remediation Treatment Status – Performance information is attached.
- RI/FS Work Plan Status – Rev. 0 has been issued. Figure 6-1 (Page 6-2) needs to be reissued.
- Update on expanding P&T System to North – Design work will begin next month.
- Approval to use single wall discharge line (P&T Expansion) - Met with Brenda Becker-Khaleel (Ecology) to discuss single-walled piping and need for variance related to “daily” versus “workday” inspections.

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

- Remediation Treatment Status – Performance information attached. Average air flow rate for August 9-22, 2004, is 395 GPM. The passive systems remain operational. The period of operation has been extended to October 31, 2004.
- Monthly Monitoring – No discussion.

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 remedial investigation is continuing in support of drilling in FY 2005.
 - Status of Field Work at 216-Z-9 – The casing was downsized at 201 ft bgs. Geophysical logging indicated no man-made radionuclides in the 11-inch diameter interval below the caliche. The water table was encountered at 228 ft bgs on September 9, 2004, and was measured at 222 ft bgs on September 13, 2004. Groundwater samples were collected on September 13, 2004. Four split-spoon and groundwater sample pairs will be collected throughout the aquifer to support the Kd study. The borehole depth was 230 ft bgs on September 15, 2004.
 - Status of Carbon Tetrachloride DNAPL Investigation – A passive soil gas survey was initiated in the vicinity of the 216-Z-9 Trench and the 216-T-25 trenches on September 13, 2004. Samplers will be retrieved at the end of this week and returned to the vendor for analysis. The first project technical workshop will be held September 28-30, 2004.

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

- Schedule Review
 - Status of FS and PP – FS Draft B due end of November 2004.

- Review Path Forward – Ecology has requested to move 216-N-8 Pond site into 200-UR-1 OU. Currently it is in 200-CW-1 OU. Ecology also requests that we explore the possibility of starting DQO development for confirmatory sampling earlier than the current baseline indicates. Due to FY 2005 funding shortfall, completion of this work as currently scheduled is being reevaluated. Once the impacts of the funding shortfall are known, impacts to the current schedule will be assessed. Hickey to provide early start date for confirmation sampling and funding impacts. Completion is dependent on current funding shortfall analysis.

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

- Schedule Review

- Status of Work Plan – An Ecology letter, dated September 10, 2004, formally approving Rev. 1 of the Work Plan was received.
- Status of RI Report – A letter from Ecology was received on July 30, 2004, requesting an extension to October 18, 2004, for completion of their review of the RI report. This will complicate initiation of FS, which is scheduled to begin on October 1, 2004, but will not prevent work from proceeding.
- Status of Field Planning for 216-S-7 Borehole: Pre-job planning activities continued for characterization activities at the 216-S-7 Crib. Drilling activities currently scheduled to begin the week of 9/13.

13. 200-CS-1 OU

- Schedule Review – Ecology will have letter out September 17, 2004.
- Status of RI Report – Ecology stated that the report did not discuss additional data from Snows Canyon (216-A-29) ditch. Need to document sampling done in 1998 and some in 2001/2002. FH responded that this data was included in the RI report.

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

- Schedule Review

- Status of Work Plan – Not discussed
- Status of RI Report – RI to RL in concurrence: routing up to Klein this week.
- EPA received letter but not R/O of RI report. Need formal correspondence regarding EPA's expectation regarding ditches.
- Status of FS and PP – EPA does not want an overview.

15. 200 Area Ecological Evaluation

- Schedule Review

- Status of Eco DQO – SAP to be transmitted to RL by end of September. Tech editing complete; due September 22, 2004.
- Status of Eco Evaluation Report – Dept. of Ecology suggested in the DQO interview to sample near the US Ecology disposal site. This requires FH to send a contractual related letter to RL. Dept. of Ecology now says they don't need sampling at US

Ecology disposal site. RL requests email from Dept. of Ecology to respond to FH on this issue.

- Overview of Eco Activities
 - Spring Sampling Progress – No discussion.
 - Status of FY 2004 Sampling – No discussion.

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

- Schedule Review
 - Status of Work Plan – Close to having solid approach. Plan has been reviewed and returned by John Price at Ecology on August 31, 2004. Comments indicated general satisfaction with the outline content. DOE drafted a transmittal letter to Ecology. Due date for the work plan is reset to October 29, 2004, with selected additional text due into the document by December 31, 2004.
 - Status of ORP/RL Work on Pipeline Strategy – The proposed approach will focus on non-characterization-based matching of a preferred remediation alternative for a set of pipelines matching a conceptual model. Conceptual models are defined for leaking and non-leaking pipe types and for waste streams consisting of low, moderate, and high activity waste streams. Remediation alternatives will then get selected for the conceptual model based on depth of burial. The conceptual models have been refined to address the presence of encasements for high activity lines.

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

- Schedule Review
 - Status of Field Work – Drill site preparations have begun at the 216-T-28 Crib with drilling expected to begin later this week. 222-S lab personnel (truck drivers) would like to have the waste container storage area at the 216-S-20 site to be moved north of the waste site to improve truck access. Ecology agreed to the relocation, however, requested that an email be sent to Brenda Becker-Khaleel with the details of the relocation request. DOE wanted the request to be added to the meeting minutes.

18. 200-MW-1

- Schedule Review
 - Status of Field Work – Drilling is suspended at 216-A-4 Crib pending review of additional data. Installation of drive casing was completed August 26, 2004. Spectral gamma logging of drive casing was completed September 2, 2004. The drive casing was logged for passive neutron logging on September 8, 2004. Once all data is evaluated a path forward for the borehole drilling will be determined. Test pits and 2 of the 3 boreholes were deferred to first quarter FY 2005. 216-A-4 will be delayed until 1st quarter of FY 2005 because of the unexpected radiological conditions that resulted in additional data needs.

19. 200-UR-1

- Schedule Review
 - Status of DQO and Work Plan – FH transmitted the final responses to the Ecology comments on the 200-UR-1 Draft A Work Plan to RL on September 13, 2004, for transmittal to Ecology. FH/RL notified Ecology that the addition of West Lake Waste Site 216-N-8 to the work plan would require a schedule extension for issuance of R/O version. RL has prepared a request to extend the due date for issuance of R/O work plan by 60 days. RL submitted a TPA proposed change package and a request for schedule extension. The request is for moving the 216-N-8 West Lake Waste Site from the 200-CW-1 OU to the 200-UR-1 OU. CERCLA removal action - \$4 million is high figure. Give specific sites that are high risk for target list; Subset of UR-1 to generate a CERCLA. Ecology indicated target would be \$3 million.

20. 200-SW-1/2

- Schedule Review
 - Status of DQO and Work Plan – Ecology suggested that Trench 94 in the 218-E-12B Burial Ground be assigned a separate WIDS number and be transferred out of the 200-SW-2 OU. Ecology suggested that Trenches 31 and 34 in the 218-W-5 Burial Ground could be assigned separate WIDS numbers also. The Integrated Disposal Facility should not be included in the 200-SW-1/2 OU. There are sites in Appendix B of the TPA that are not assigned to OUs. FH will provide a list of recommendations for 200-SW-1/2 waste sites to RL and Ecology. Ecology and EPA could send letter to RL suggesting changes to get timing on it.

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

| Task | Scheduled Date | Float | Comments |
|--|---|--------------|--|
| 200-MW-1 | | | |
| Deliver Draft A RI Report for Regulatory agency Review | 12/31/2005 | -- | 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 9/28/2002. Consolidation TPA change package approved 6/5/2002. Rev. 1 originally scheduled to be delivered 5/6/2003 | -407-d | Delivered to RL 4/1/04; on hold at RL pending some comments on the QAP, P. Issued to RL on 08/12/04 |
| Deliver Rev. 0 RI Report | 9/1/2003 (original date based on receipt of regulatory agency comments on 7/15/2003 with 45 days for revision) | -349-d | Inconsistencies between the work plan and the RI report were addressed. RESRAD runs have been completed and comments were incorporated. Issued to RL on 08/05/04 |
| Deliver Draft A FS/PP for Regulatory agency Review | 10/31/2004 | -- | On schedule |
| 200 Area Common - Ecological | | | |
| Central Plateau Ecological Evaluation | 07/16/04 | -48-d | New schedule date 09/xx/04 |
| Central Plateau Ecological DQO | 04/22/04 | -162-d | New schedule date 09/30/04 |
| Central Plateau Ecological SAP | 06/28/04 | -96-d | New schedule date 09/30/04 |

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

| Task | Scheduled Date | Float | Comments |
|---|-----------------------|--------------|---|
| work plan for regulatory Agency review | | | |
| Deliver Waste Control Plan for regulatory Agency review | 3/1/2006 | -- | On schedule |
| Start field sampling | 4/26/2006 | -- | On schedule |
| Deliver Draft A RI Report for Regulatory Agency Review | 5/14/2007 | -- | On schedule |
| 200-UW-1 | | | |
| Obtain Regulatory Agency/RL concurrence on SAP | 7/29/2004 | -22-d | Workshop to address additional comments scheduled 8/12/04. Workshop postponed pending regulatory agency availability. |
| RL Transmit Draft C to Regulatory Agency | 9/15/2004 | -- | Draft C delivered to Regulatory Agencies 09/08/04. FFS scheduled for delivery to Regulatory Agencies 2-weeks after workshop. |
| Initiate confirmatory sampling | 11/1/2004 | -- | On schedule |
| 200-IS-1/200-ST-1 | | | |
| Deliver Rev. 1 RI/FS work plan | 12/31/2004 | -- | Implementation of RCRA and CERCLA has uncovered several technical challenges. Currently working on issues to assess impacts on schedule |
| Deliver Waste Control Plan for regulatory agency review | 1/24/2005 | -- | On schedule |
| 200-PW-1/200-PW-3/200-PW-6-- | | | |
| Deliver Draft A RI Report for Regulatory agency Review | 6/30/2006 | -- | On schedule |

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

| Task | Scheduled Date | Float | Comments |
|--|---|--------------|---|
| 200-CS-1 | | | |
| Deliver Draft A FS/PP for Regulatory Agency Review | 11/30/2005 | -- | On schedule |
| 200-CW-1 | | | |
| Deliver Draft B FS for Regulatory Agency Review | 7/3/2003 (original date based on receipt of regulatory agency comments 45 calendar days after submittal (which would be 5/15/2003) with 45 days to revise and reissue) | -405-d | Regulatory agency comments originally due on 5/15/2003; policy level comments received on that date; Ecology indicated additional comments would be coming; additional informal comments were received on 6/25/2004 |
| | 11/30/2004 (new target date based on collecting spring samples and incorporating data into the revision) | -- | Schedule revised due to delays at analytical laboratory |
| 200-LW-1 | | | |
| Deliver Draft A RI Report for Regulatory Agency Review | 10/31/2005 | -- | On schedule |
| 200-PW-2 | | | |
| Ecology approve Rev 1 RI/FS work plan | 2/14/2003 | -580-d | Field work will started 9/04 and completion of work is forecast to not generate a variance for the FS. Work Plan delivered to Ecology xx/xx/04, pending approval |
| Deliver Draft A RI Report for Regulatory Agency Review | 6/30/2004 | -- | Delivered 6/24/04. Ecology requested 60 day extension. |
| Deliver Draft | 12/31/2005 | -- | On schedule |

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

| Task | Scheduled Date | Float | Comments |
|--|-----------------------|--------------|--|
| A FS/PP for Regulatory Agency Review | | | |
| 200-SW-1/200-SW-2 | | | |
| Brief Ecology on DQO Approach | 7/8/2004 | -- | Initial briefing conducted on 7/8/04. |
| Deliver draft A RI/FS work plan for regulatory Agency review | 12/31/2004 | -- | On schedule |
| Deliver Waste Control Plan for regulatory Agency review | 4/15/2005 | -- | On schedule |
| Start field sampling | 7/27/2005 | -- | On schedule |
| Deliver Draft A RI Report for Regulatory Agency Review | 9/19/2007 | -- | On schedule |
| 200-TW-1 (includes 200-TW-2) | | | |
| EPA/Ecology approve RI Report | 7/10/2003 | -307-d | Modeling results delivered on 05/21/04 to regulatory agency; waiting on response from USGS. Meeting with USGS scheduled for 09/08/04 to resolve differences |
| Deliver Draft A FS/PP for Regulatory Agency review | 3/31/2004 | -- | Comments received and document modification underway |
| Revise FF/PP for Region 10 review | 5/18/2004 | -90-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. |
| BC Crib Focused Feasibility Study | 9/30/2004 | -15 | Document delayed until 10/15/04 due to extensive fate and transport modeling. |
| 200-UR-1 | | | |
| Deliver draft A RI/FS | 6/30/2004 | -- | Delivered 6/30/04 |

200 Area UMM –September 2004

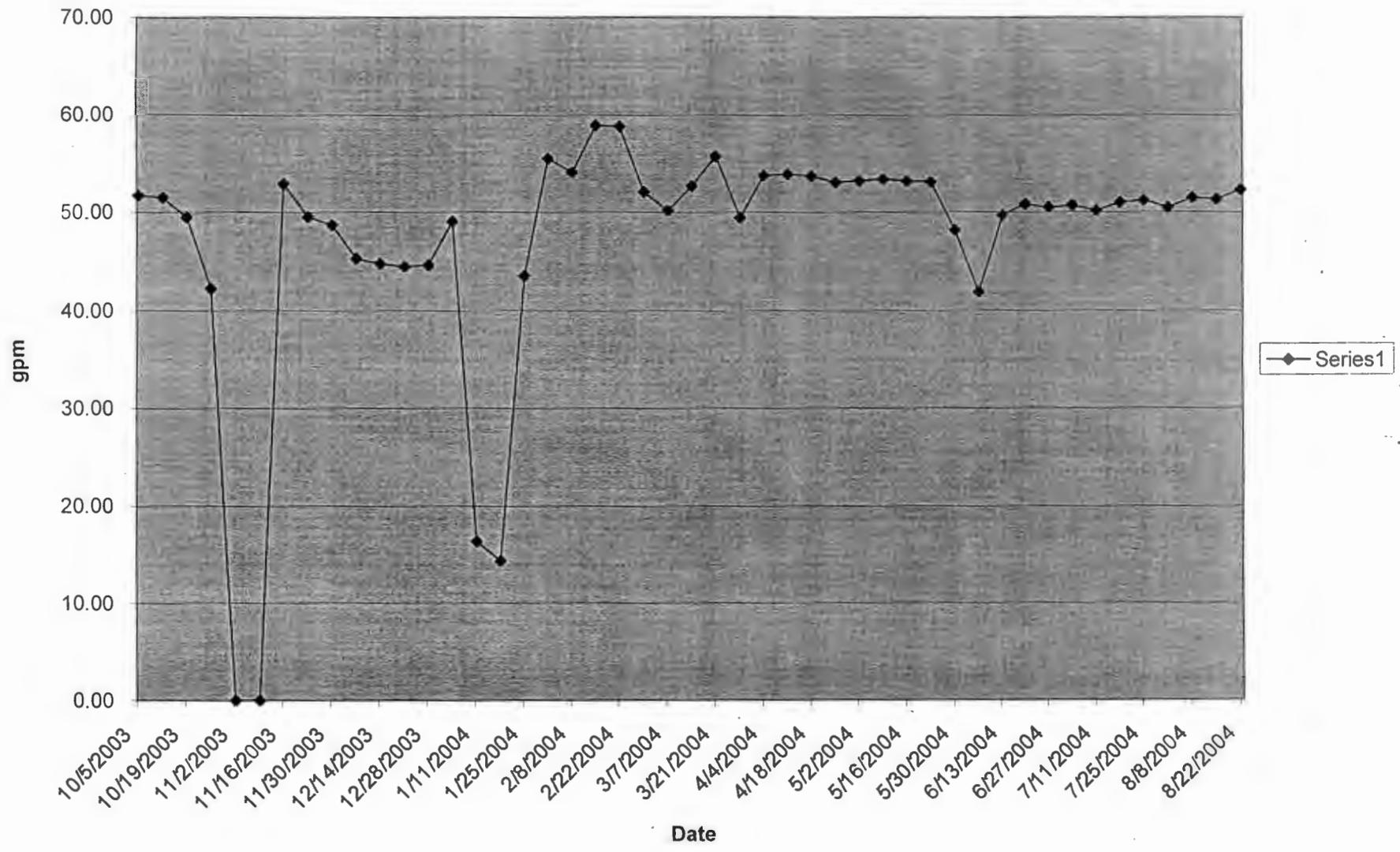
200-UP-1:

- Average Pumping Rate (counting all outage time as 0 gpm) for January 26 through September 12 is approximately 51.3 gpm.
- Status on Ecology reviewing a 200-UP-1 Operating Plan for a rebound study.
- From August 9 through August 22, the system operated between 51.3 and 52.3 gpm.
- There were no shutdowns during this reporting period.
- System Run Time
 - For August 9 through August 22 100%
 - FY2004 (Year to date) 91.1%
 - System Inception to date 92.4%
- RI/FS Work Plan Draft B – Received Ecology comments September 3. Meeting with Ecology September 27 to clarify comments. We need all commenter present.
- 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
- Drilling of new monitoring well “P” near completion (see attached map). New well “R” is below groundwater. Drilling of new well “K” will follow. Missing data to support the CERCLA RI/FS process will be collected from these wells.

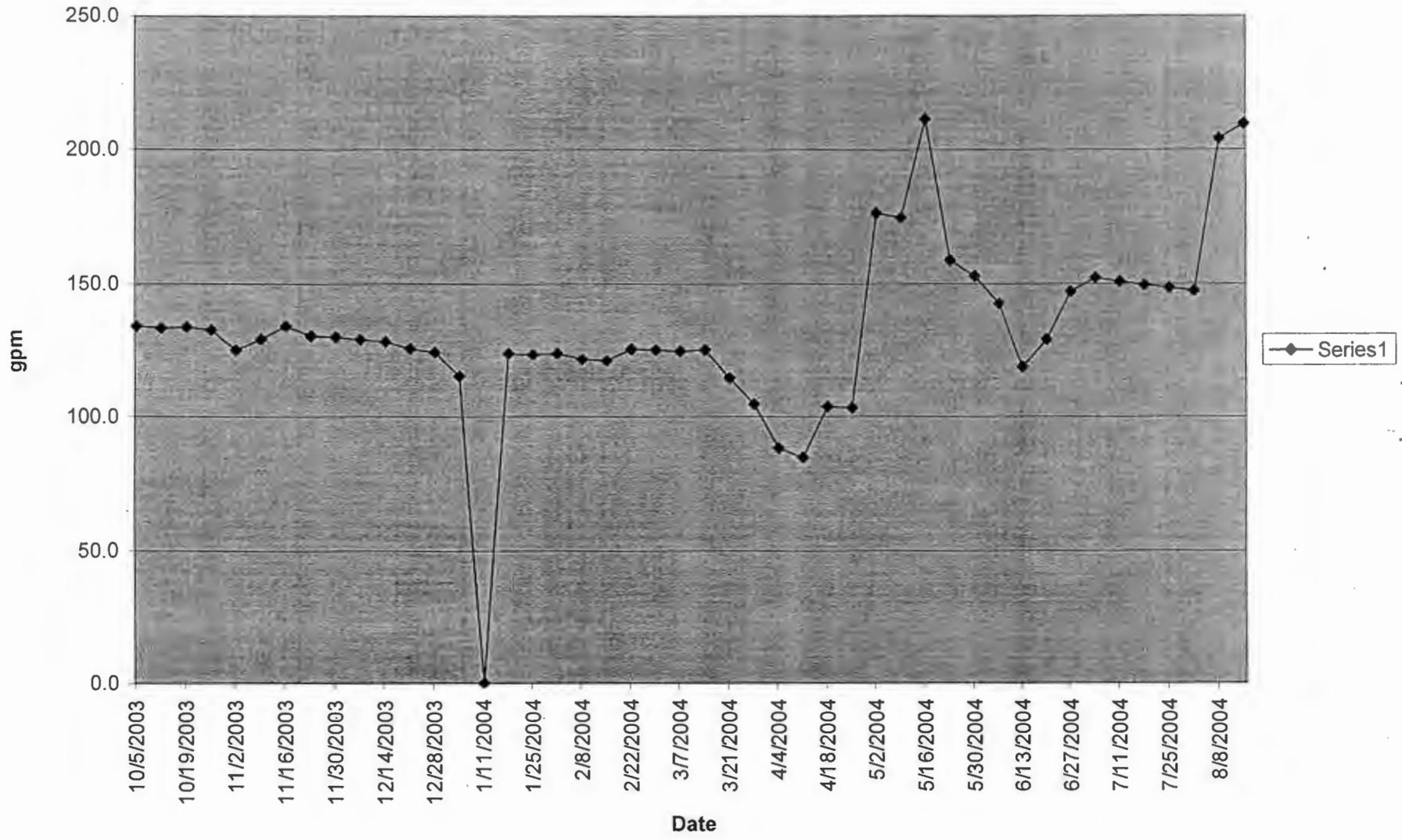
200-ZP-1:

- Average Pumping Rate for FY04 through August 15: 132 gpm
- From August 9 through August 15, the system operated at 209.5 gpm.
- System was shutdown for a short period on August 11 due to a broken gas analyzer.
- System Run Time
 - For August 9 through August 15 93.5%
 - FY2004 (Year to date) 95.8%
 - System Inception to date 92.6%
- RI/FS Work Plan Status – Rev. 0 has been issued. Figure 6-1 (Page 6-2) needs to be re-issued.
- Regarding ZP-1 pump-and-treat expansion:
 - Design work will begin in next month.
 - Attached figure shows capture zone for existing wells 299-W15-765, 299-W15-43, and 299-W15-40 for next 7 years
 - Met with Brenda Becker-Khaleel (Ecology) to discuss single-walled

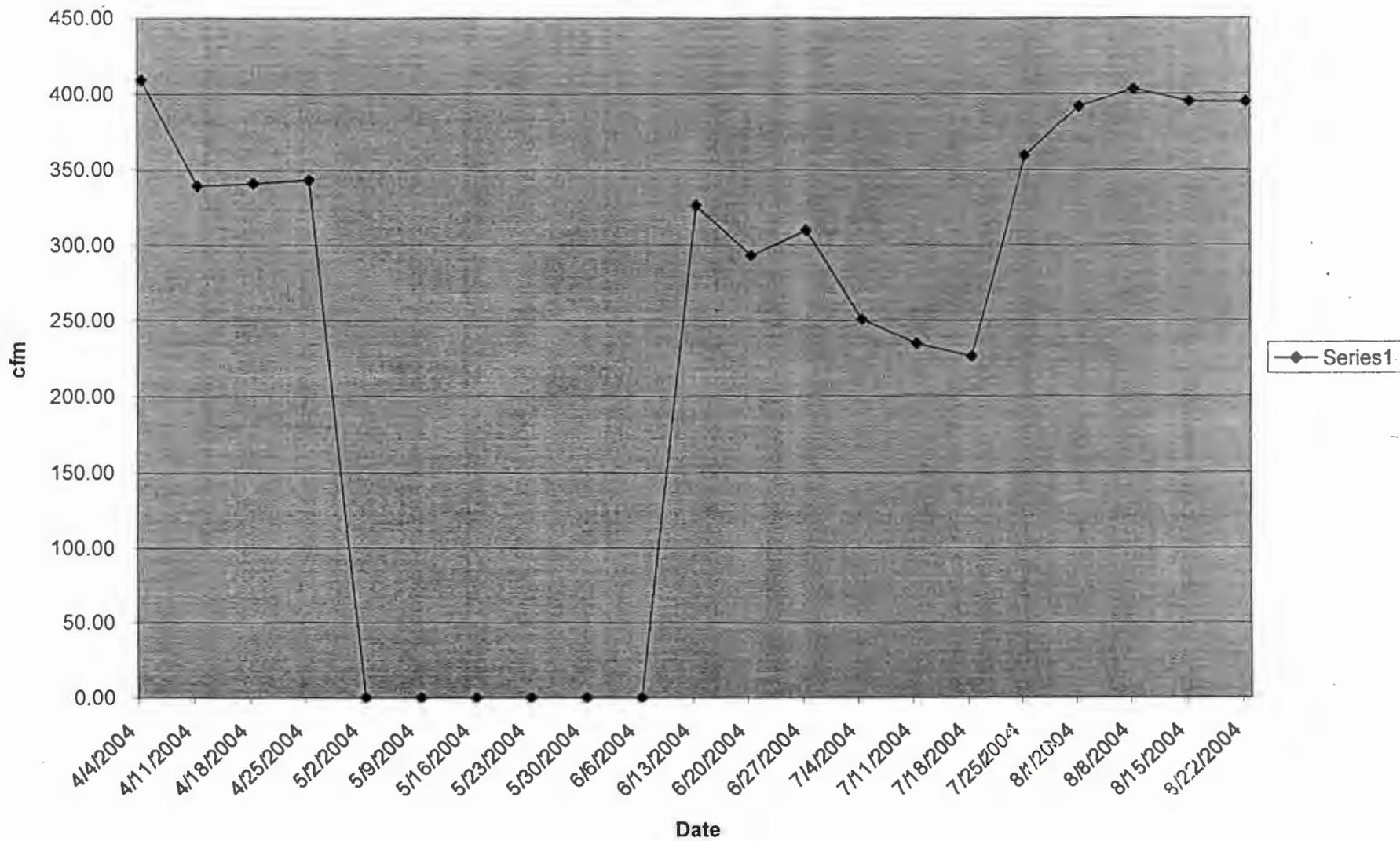
200-UP-1 Average Pumping Rate for FY2004

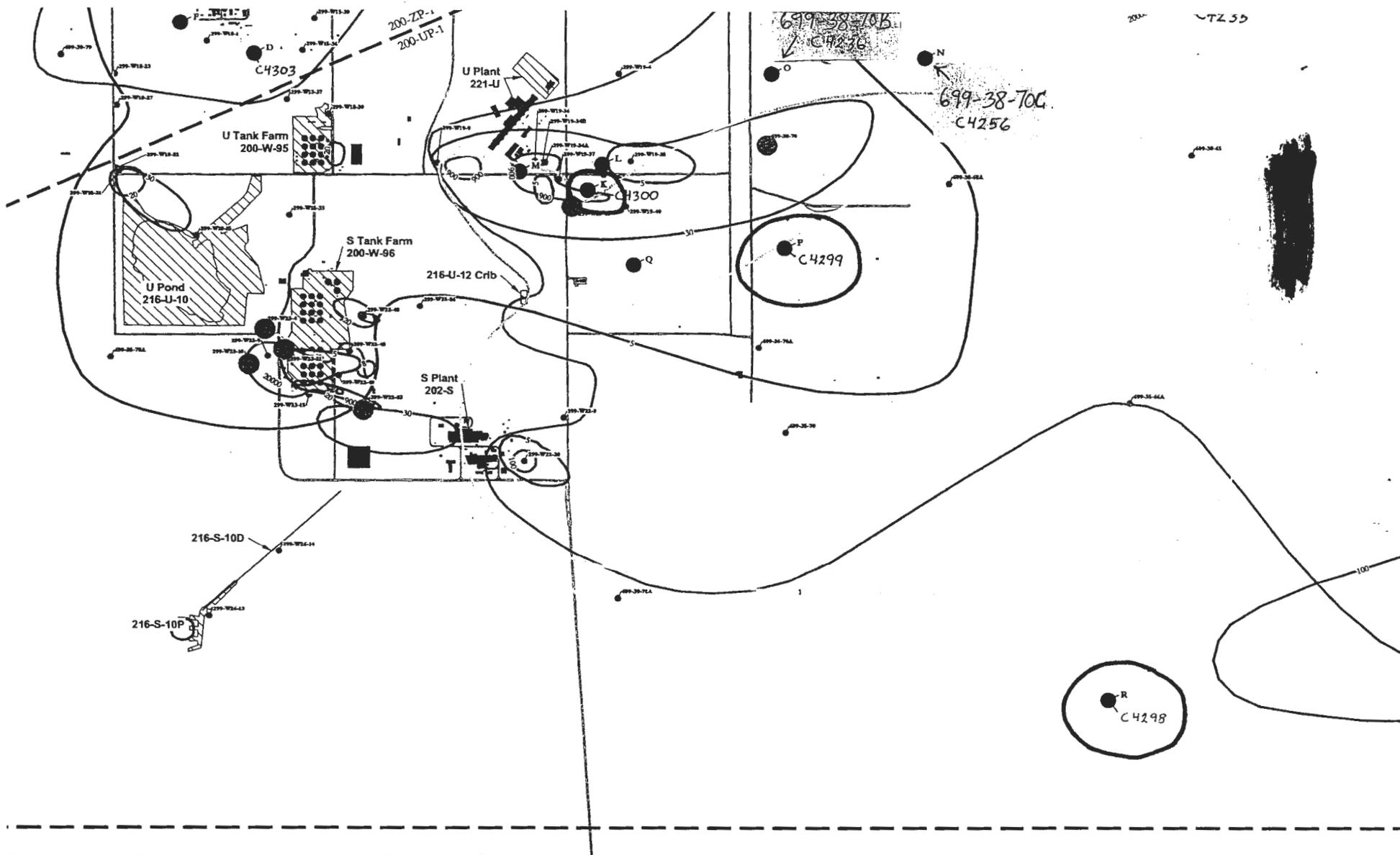


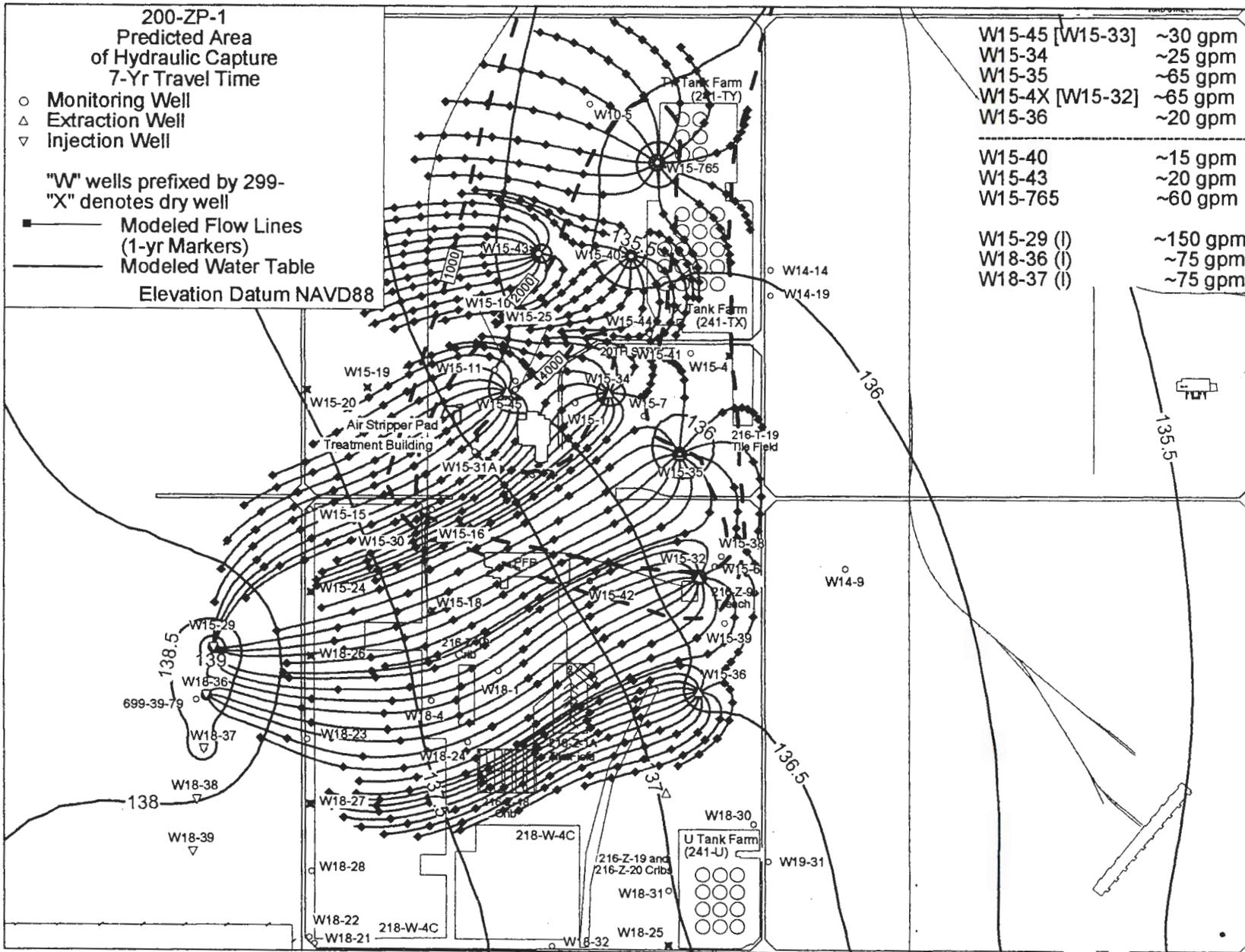
200-ZP-1 Average Pumping Rate for FY2004



200-ZP-2 Average Flow Rates







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) | Location (Well or Probe) | Site | 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) - July 2004 | | | | | | | |
|------------------------|-----------------------------|------|---|--------------------------|---|--------------------------|---|--------------------------|---|--------------------------|---|--------------------------|--|--------------------------|---|--------------------------|--|-----|------|----|
| | | | Maximum Rebound Carbon Tetrachloride (ppmv) | months* of rebound | 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 | | | | | | | | | | | | | | | | |
| CPT-18/ 15 ft | Z-9 | | 5.0 | 6 | | 6.6 | 24 | | 3.2 | 6 | | 6.6 | 15 | | 9.0 | 21 | | 9.9 | 26 | |
| 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 | 26 |
| 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 | 26 |
| 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 | | | | | | 1.6 | 0 |
| CPT-21A/ 45 ft | Z-9 | | 57 | 3 | | 127 | 24 | | 133 | 6 | | 90.0 | 15 | | 150 | 21 | | | 150 | 26 |
| 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 | 26 |
| CPT-16/ 65 ft | Z-9 | | not measured | | | not measured | | | not measured | | | 4.2 | 15 | | | | | | 4.2 | 26 |
| 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 | 26 |
| 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 | 26 |
| 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 | 26 |
| CPT-21A/ 86 ft | Z-9 | | 148 | 6 | | 195 | 24 | | 186 | 6 | | 206 | 15 | | 244 | 21 | | | 244 | 26 |
| 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 | 26 |
| 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 | 26 |
| CPT-24/ 118 ft | Z-9 | | 37 | 6 | | 35 | 24 | | | | | 27.8 | 15 | | | | | | 15.3 | 26 |
| W15-220SST/ 118 | Z-9 | | 36 | 3 | | 34 | 24 | | | | | 27.5 | 3 | | | | | | 26.0 | 26 |
| 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 | 26 |
| W15-219SST/ 155 | Z-9 | | 24 | 3 | | 44 | 24 | | | | | 6.8 | 1 | | | | | | 0 | 22 |
| W15-220L/ 163 ft | Z-9 | | | | | | | | | | | ----- | 15 | | | | | | 8 | 26 |
| W15-219L/ 175 ft | Z-9 | | | | | | | | | | | ----- | 15 | | | | | | 23 | 26 |
| W15-9L/ 176 ft | Z-9 | | 15 | 6 | | 20 | 21 | | 16.9 | 6 | | 13.1 | 15 | | 13.1 | 21 | | | 13.1 | 26 |
| W15-84L/ 180 ft | Z-9 | | not measured | | | not measured | | | not measured | | | 25.9 | 15 | | 25.9 | 21 | | | 25.9 | 26 |
| 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-213 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 - August 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 |
|------------------------------|------|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Location | Site | CCI4 | CCI4 | CCI4 | CCI4 | CCI4 | CCI4 | CCI4 | CCI4 | CCI4 | CCI4 | CCI4 | CCI4 | CCI4 | CCI4 |
| (Well or Probe) /feet bgs | | (ppmv) | (ppmv) | (ppmv) | (ppmv) | (ppmv) | (ppmv) | (ppmv) | (ppmv) | (ppmv) | (ppmv) | (ppmv) | (ppmv) | (ppmv) | (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 |
| CPT-18/ 15 ft | Z-9 | 0 | 1.1 | 1.0 | 1.5 | 1.4 | --- (c) | 1.6 | 1.2 | | 2.5 | 2.5 | --- | 0 | 0 |
| CPT-4E/ 25 ft | Z-1A | | | | | | | | 1.7 | | 1.4 | 2.0 | 2.4 | | 0 |
| CPT-16/ 25 ft | Z-9 | 2.6 | 1.2 | 1.4 | 0 | 1.7 | 2.2 | | 1.8 | | 1.4 | 3.6 | --- | 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 |
| 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) |
| 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 |
| 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 |
| CPT-34/ 40 ft | Z-18 | | | | | | | | 1.4 | | 1.1 | 1.0 | 0 | | 1.6 |
| 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 |
| 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 | | --- (e) |
| CPT-16/ 65 ft | Z-9 | | | | | | | | 3.1 | | 4.0 | 1.5 | --- | 4.2 | 2.9 |
| CPT-24/ 70 ft | Z-9 | | | | | | | | 4.4 | | 4.4 | 9.1 | 5.0 | | 4.2 |
| W15-219SST/ 70 ft | Z-9 | | | | | | | | 9.5 | | | | | | |
| CPT-18/ 75 ft | Z-9 | | | | | | | | 8.0 | | 6.2 | 4.7 | --- | 6.3 | 8.3 |
| 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 |
| CPT-21A/ 86 ft | Z-9 | 91.8 | 183 | 171 | 244 | 98.1 | --- (c) | 212 | 73.3 | | 177 | 157 | 95.7 | | 40.5 |
| CPT-28/ 87 ft | Z-9 | 155 | 206 | 140 | 56.7 | 96.1 | --- (c) | 258 | 26.8 | | 222 | 164 | 227 | | 222 |
| 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 |
| CPT-24/ 118 ft | Z-9 | | | | | | | | 5.3 | | 15.3 | 8.5 | 6.9 | | 2.8 |
| W15-220SST/ 118 ft | Z-9 | | | | | | | | | 26.0 | 18.7 | 18.5 | 15.7 | | 9.0 |
| 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 | --- | 18.6 | 22.7 |
| W15-219SST/ 155 ft | Z-9 | | | | | | | | 0 | | | | | | |
| W15-220L/ 163 ft | Z-9 | | | | | | | | 7.5 | | 6.4 | 0 | 0 | | 5.7 |
| W15-219L/ 175 ft | Z-9 | | | | | | | | --- | 23.0 | 2.9 | 0 | --- | 0 | 0 |
| W15-9L/ 176 ft | Z-9 | 6.1 | 5.8 | ---- (a) | ---- (a) | 9.1 | 9.6 | | 8.8 | | 10.1 | 11.9 | --- | 10.9 | 9.0 |
| 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 |
| | | (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 | | | | | | | | | | | | | |