

Environmental Restoration Contractor **ERC Team Meeting Minutes**

067327

Job No. 22192  
Written Response Required: NO  
Due Date: N/A  
Action: N/A  
Closure CCN: N/A  
OU: 200-ZP-2, 200-ZP-1  
TSD: NA  
ERA: CC14  
Subject Code: 8220, 8960

**SUBJECT** 200-ZP-1/2 UNIT MANAGERS MEETING MINUTES

**TO** Distribution

**FROM** M. A. Buckmaster

**DATE** March 4, 1999



**RECEIVED**  
MAR 02 2009  
EDMC

- ATTENDEES**
- M. A. Buckmaster H0-19
  - D. A. Faulk B5-01
  - V. J. Rohay H0-19
  - A. C. Tortoso H0-12

- DISTRIBUTION**
- Attendees
  - R. L. Jackson H9-02
  - C. Ward H9-01
  - R. C. Wilson H9-02
  - L. C. Swanson H9-02
  - Administrative Record c/o H0-09
  - Document and Information Services H0-09

A 200-ZP-1 and 200-ZP-2 Unit Managers Meeting was held on January 19, 1999, at 3350 George Washington Way, Room 2C58. The agenda is included as Attachment 1.

A. C. Tortoso and D. A. Faulk signed the Meeting Minutes for the 11/18/98 200-ZP-1/2 Unit Managers Meeting. The 11/18/98 meeting minutes were then transmitted to the Administrative Record (CCN 065171).

A. C. Tortoso and D. A. Faulk agreed to hold the next 200-ZP-1/2 Unit Managers Meeting in conjunction with the next 200 Area Unit Managers Meeting, scheduled for 2/18/99. They agreed that the benefit of a joint meeting would be enhanced communication between projects.

**200-ZP-2 Soil Vapor Extraction System**

Soil vapor monitoring near the groundwater, the lower permeability silt/caliche zone, and the ground surface is being conducted at the Z-1A/Z-18/Z-12 and Z-9 sites from October 1998 through March 1999 while the soil vapor extraction (SVE) system is shut down for the winter. V. J. Rohay provided a table comparing the maximum concentration at each monitoring location to the maximum observed at that location during the rebound study (November 1996 through July 1997) and during fiscal year 1998 (October 1997 through September 1998) and a table of all the non-operational monitoring data for fiscal year 1999 (Attachment 2). Monthly monitoring data from July through September 1998 are included with the fiscal year 1999 data for monitoring locations at the Z-1A/18/12 site, where SVE operations were discontinued in June 1998.

It was noted that concentrations at several locations were higher on 11/5/98 and on 12/31/98 than they were on 12/1/98. These differences appear to be related to fluctuations in the barometric pressure, which had

fallen prior to the 11/5/98 and 12/31/98 sampling and had risen prior to the 12/1/98 sampling (Attachment 3).

V. J. Rohay outlined plans for implementation of passive soil vapor extraction at selected locations this spring at the ZP-2 site. Monitoring would be conducted to evaluate the effectiveness of passive extraction, which may be a viable option for long term remediation. D. A. Faulk suggested that granular activated carbon could be placed in-line on each venting well to act as a passive sampler. M. A. Buckmaster noted that a surface cover test could potentially be a complementary or alternative field activity. A. C. Tortoso and D. A. Faulk agreed that conceptual plan sounded good. Action: V. J. Rohay will further develop the plan for presentation at the next meeting.

D. A. Faulk stated that Project Hanford Management Contractor (PHMC) is preparing to conduct vapor sampling of the 241-Z-361 tank. After the tank is vented, core samples will be collected (tentatively scheduled for April 1999). The 241-Z-361 tank, located in the subsurface within the Plutonium Finishing Plant fenced area, was the settling tank for the carbon tetrachloride effluents routed to the Z-1A and Z-18 disposal sites (in addition to effluents routed to Z-12), and results of the sampling and cleanup of the tank may provide information helpful to the ZP-2 cleanup. Action: V. J. Rohay will call PHMC staff regarding the results of the sampling.

V. J. Rohay relayed a brief status provided by J. W. Massmann, University of Washington, on the Consortium for Risk Evaluation and Stakeholder Participation (CRESP) work for the carbon tetrachloride site. Dr. Massmann has a new student who will focus on our 1993 report of the estimated subsurface carbon tetrachloride inventory and how it might be updated. D. A. Faulk reported that CRESP will be providing us an integrated carbon tetrachloride proposal that addresses technical, risk, and worker health and safety issues.

A. C. Tortoso and D. A. Faulk reviewed the Innovative Treatment Remediation Demonstration (ITRD) agenda for the 1/26/99 kickoff meeting. The ITRD program for the Hanford carbon tetrachloride site will evaluate innovative characterization, modeling, and remediation technologies for the vadose zone and groundwater plumes.

Geophysicists from the University of South Carolina conducted vertical velocity profiling in three wells at the Z-9 site in early January. They plan to return in February 1999 to use high resolution seismic reflection at the Z-9 site to look for DNAPL. The profiling data will be used for calibration of their seismic results during data interpretation. The report on their investigation is expected in June 1999.

#### **200-ZP-1 Pump and Treat System**

M. A. Buckmaster reported that the fiscal year 1998 annual summary report for 200-ZP-1 operations is currently being reviewed by RL and that EPA should receive a copy in approximately a month.

D. A. Faulk pointed out that, based on the Record of Decision, the 5 year review of the pump-and-treat remediation will occur in 2001. M. A. Buckmaster agreed that the FY 2001 budget, which will be prepared during FY 2000, needs to plan for this FY 2001 activity.

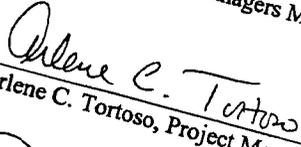
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M. A. Buckmaster reported that when the pump was pulled from well 299-W15-32 to allow access for vertical velocity profiling, it was discovered that severe pitting had occurred between the pump and the riser pipe due to galvanic corrosion. A replacement pump and stainless steel riser pipe should be onsite by 1/25/99.

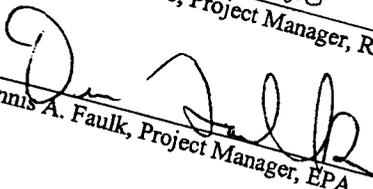
Several unrelated problems caused the pump-and-treat system to be shutdown on 1/15/99; the system is expected to be back online by 1/22/99. On 1/7/99, a communication problem between the process building and 3 wells effectively took those wells off-line. Then on 1/15/99, the pump failed in well W15-33. The system could not be restarted without well W15-33 because there would not be enough water produced. Prior to these events, the system had been operating with no known problems.

**Meeting Minutes Approval**

The undersigned indicate by their signatures that these meeting minutes reflect the actual occurrences of the above-dated Unit Managers Meeting.

  
Arlene C. Tortoso, Project Manager, RL

Date: 3/22/99

  
Dennis A. Faulk, Project Manager, EPA

Date: 3-22-99

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Attachment 1

AGENDA  
UNIT MANAGERS MEETING  
200-ZP-1 AND 200-ZP-2  
JANUARY 19, 1999

200-ZP-2 SOIL VAPOR EXTRACTION REMEDIATION

- UMM Minutes from 11/18/98
- Summary of Non-Operational Monitoring
- Passive Soil Vapor Extraction Implementation Plan
- Other

CRESP

ITRD

High Resolution Seismic Profiling

200-ZP-1 PUMP-AND-TREAT REMEDIATION

- Status of Pump-and-Treat Operations
- FY 1998 Annual Report

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Comparison of Maximum Carbon Tetrachloride Rebound Concentrations  
Monitored at 200-ZP-2 Soil Vapor Extraction Sites  
FY 1997 - FY 1999

Attachment 2

200-ZP-2				November 1996 -		October 1997 -		July 1998 -	
Location				July 1997		September 1998		December 1998	
(Well or Probe)	Site	Zone		Maximum Rebound	months*	Maximum Rebound	months*	Maximum Rebound	months*
feet bgs				Carbon Tetrachloride	of	Carbon Tetrachloride	of	Carbon Tetrachloride	of
				(ppmv)	rebound	(ppmv)	rebound	(ppmv)	rebound
79-06/ 5 ft	Z-1A	1		not measured					
79-11/ 5 ft	Z-1A	1		not measured					
86-06/ 5 ft	Z-9	1		0	8	not measured		0	6
87-09/ 5 ft	Z-1A	1		1.3	8		6	2.85	6
85-11/ 5 ft	Z-9	1		not measured		0	9	0	3
95-12/ 5 ft	Z-9	1		0	8	1.5	3	1.46	6
CPT-18/ 10 ft	Z-9	2		1.1	8	2.1	9	1.48	3
CPT-17/ 10 ft	Z-9	2		not measured		1.5	9	1.21	3
CPT-18/ 15 ft	Z-9	2		not measured		0	9	1.46	3
CPT-32/ 25 ft	Z-1A	2		not measured		4.2	9	3.16	3
CPT-30/ 28 ft	Z-18	2		not measured		6.5	9	5.02	3
CPT-7A/ 32	Z-1A	2		not measured		9.1	6	5.21	6
W15-82/ 82 ft	Z-9	2		not measured		not measured		0	6
W15-95/ 82 ft	Z-9	2		28.9	8	2.3	6	2.64	6
CPT-21A/ 86 ft	Z-9	2		not measured		5.5	9	46.4	3
CPT-28/ 87 ft	Z-9	2		221	8	15.3	9	39.4	3
CPT-9A/ 91 ft	Z-9	2		280	8	206	9	140	3
W18-252SST/ 100 ft	Z-1A	2		103	8	230	9	203	3
W18-152/ 113 ft	Z-12	2		38.2	8	34.5	9	39	3
W15-217/ 115 ft	Z-9	3		46.8	8	17.8	3	22.7	6
CPT-24/ 118 ft	Z-9	3		797	8	11.1	3	27.9	6
W18-158L/ 123 ft	Z-1A	3		44.6	8	630	9	339	3
W18-187/ 123 ft	Z-1A	3		not measured		37.7	9	37.3	3
W18-249/ 134 ft	Z-18	3		322.8	8	143	3	172	6
W18-248/ 136 ft	Z-1A	3		206	8	79.7	3	205	6
W15-8L/ 189 ft	Z-9	6		288	8	20.4	3	215	6
W15-9L/ 189 ft	Z-9	6		22.6	8	86.3	3	138	8
W18-7/ 200 ft	Z-1A	6		18.3	8	17.8	9	1.29	3
W18-6L/ 206 ft	Z-1A	6		28.5	8	15.0	9	14.9	3
W18-12/ 210 ft	Z-18	6		36	8	17.3	3	26.7	6
				not measured		31.3	6	14.5	6
						3.8	3	13.6	6

\* - 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-8A, 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-8A, CPT-21A, CPT-28 beyond SVE zone of influence in May 96 based on CCM concentrations and airflow modeling based on measured vacuums (BHI-01105, p. 6-1)

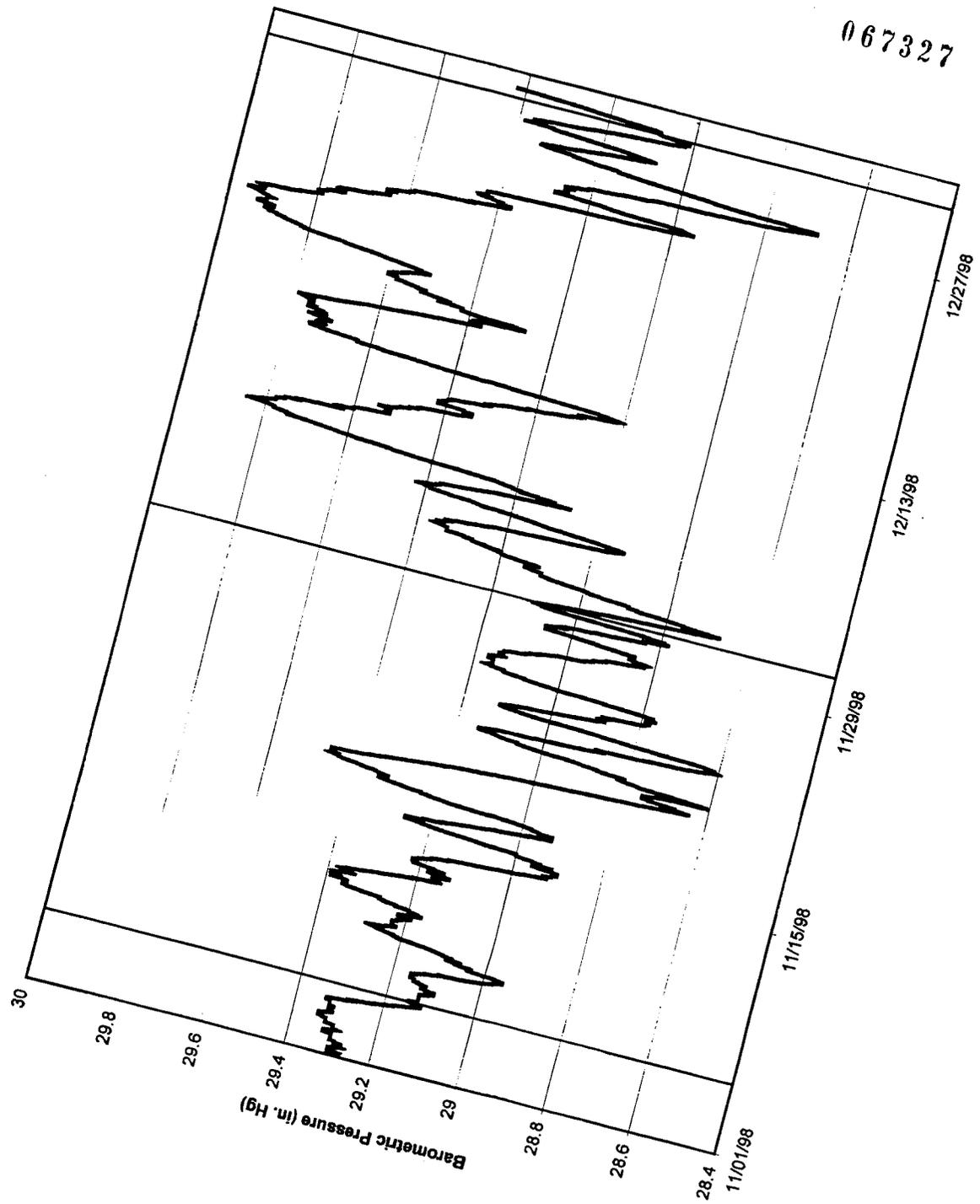
Carbon Tetrachloride Rebound Concentrations  
 Monitored at 200-ZP-2 Soil Vapor Extraction Sites  
 July 1998 - December 1998

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200-ZP-2						
Location		8/14/98	9/29/98	11/5/98	12/1/98	12/31/98
(Well or Probe)	Zone	(a)				
/feet bgs		CCl4	CCl4	CCl4	CCl4	CCl4
		(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)
79-06/ 5 ft	1			0	0	0
79-11/ 5 ft	1	0	0	2.8	0	2.9
86-06/ 5 ft	1			— (b)	0	0
87-09/ 5 ft	1	0	1.5	0	0	1.1
95-11/ 5 ft	1			0	0	1.5
95-12/ 5 ft	1			1.2	0	1.2
CPT-16/ 10 ft	2			1.5	0	0
CPT-17/ 10 ft	2			3.2	1.7	3.2
CPT-18/ 15 ft	2			0	0	5.0
CPT-32/ 25 ft	2	0	0	1.0	2.1	5.2
CPT-30/ 28 ft	2			0	0	0
CPT-7A/ 32	2	1.4	1.7	1.7	2.4	2.6
W15-82/ 82 ft	2			46.4	19.2	23.1
W15-95/ 82 ft	2			39.4	25.4	37.3
CPT-21A/ 86 ft	2			126	74.6	140
CPT-28/ 87 ft	2			184	65.2	203
CPT-9A/ 91 ft	2			39.0	38.6	12.4
W18-252SST/ 100 ft	2	8.9	17.8	18.2	13.3	22.7
W18-152/ 113 ft	2	11.1	0	27.9	3.4	25.2
W15-217/ 115 ft	3			— (c)	26.8	339
CPT-24/ 118 ft	3			37.1	37.3	33.5
W18-158L/ 123 ft	3	— (d)	143	172	172	— (d)
W18-167/ 123 ft	3	— (d)	79.7	127	205	— (d)
W18-249/ 134 ft	3	— (c)	20.4	215	23.3	208
W18-248/ 136 ft	3	7.1	86.3	93.5	98.0	138
W15-6L/ 189 ft	6			— (c)	0	1.3
W15-9L/ 189 ft	6			— (c)	14.6	14.9
W18-7/ 200 ft	6	0	17.3	22.5	21.8	26.7
W18-6L/ 208 ft	6	4.3	14.5	— (c)	— (c)	— (c)
W18-12/ 210 ft	6	1.2	3.8	7.5	12.0	13.6
(a) sampled 8/14/98; analyzed 8/15/98						
(b) probe 86-07R destroyed; substitute probe 86-06 after 11/98						
(c) not in service						
(d) access to Z-1A unavailable (no key)						

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Attachment 3



CCN # 067327

UMMM

23 MAR 99 8:25

RECORD TYPE MM

SUBJECT CODE 4170, 8220, 8960

OU 200 ZP1 + 2

ERA Carb Tet

TSD \_\_\_\_\_

SITE 200W

CLOSES \_\_\_\_\_

ACTION TRACKING

CHRONED BY llk

REPRO BY \_\_\_\_\_

DATA ENTRY BY llk

SCANNED/PAGE COUNT me/8