

**HTW BCT Meeting**

May 2009

<b>Item</b>	<b>Action</b>	<b>Comment</b>
<b>OU1 Groundwater Remediation</b>	<b>Status Update</b>	<b>HGL</b>
<b>OU1 Off-Site</b>	<b>Status Update</b>	
<b>OU2 and 2/12 Treatment Systems</b>	<b>Status Update</b>	
<b>Other Groundwater Issues</b>	<b>Status Update</b>	
<b>OUCTP</b>	<b>Status Update</b>	
<b>Groundwater Treatment System Optimization</b>	<b>Status Update</b>	
<b>OU2 Landfill</b>	<b>Status Update</b>	
<b>Basewide Range Assessment</b>	<b>Status Update</b>	<b>No Action Memos</b>
<b>Site 39 ROD Amendment/RDRA Work Plan</b>	<b>Status Update</b>	
<b>FFA Schedule</b>	<b>Status Update</b>	
<b>FOST/FOSET Issues</b>	<b>Status Update</b>	
<b>Calendar Update</b>	<b>Update</b>	

**SUBJECT: HTW – BCT Meeting**  
**May 19, 2009**  
**10:00 BRAC Conference Room**

Check (✓)	Name	Organization	Phone	E-mail address
<i>Plone</i>	Kate Burger <i>Steve Sterby</i>	DTSC	916/255-6537	<a href="mailto:kburger@dtsc.ca.gov">kburger@dtsc.ca.gov</a>
<i>(F)</i>	Franklin Mark	DTSC	916/255-3584	FMark@dtsc.ca.gov
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<i>DGA</i>	Grant Himebaugh	RWQCB	805/542-4636	Ghimebaugh@waterboards.ca.gov
	Bill Mabey	TechLaw Inc	415/281-8730	bmabey@techlawinc.com
<i>PLM</i>	Gail Youngblood	Fort Ord BRAC	831/242-7918	<a href="mailto:gail.youngblood@us.army.mil">gail.youngblood@us.army.mil</a>
<i>Plone</i>	Derek Lieberman	Ahtna	831/242-4873	<a href="mailto:dliberman@ahтнаes.com">dliberman@ahтнаes.com</a>
	Bill Collins	Fort Ord BRAC	831/242-7920	<a href="mailto:William.K.Collins@us.army.mil">William.K.Collins@us.army.mil</a>
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Check (✓)	Name	Organization	Phone	E-mail address
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	Melissa Broadston	Fort Ord BRAC	831/393-1284	<a href="mailto:Melissa.broadston@us.army.mil">Melissa.broadston@us.army.mil</a>
<i>ME</i>	Roy Evans	HGL	303/984-1167 xt. 5	<a href="mailto:revans@hgl.com">revans@hgl.com</a>
	<i>Jeff Peters</i>	<i>Mactec</i>		

## Issued Reports and Date Comments Due

<u>Grouping</u>	<u>Issued Report</u>	<u>Date Issued</u>	<u>Date</u> <u>Comments Due</u>	<u>Notes/Comments Received</u>
Secondary Documents	Draft 2008 Annual and Fourth Quarter Groundwater Monitoring Report, OUI	May-06-09	<del>8-30-09</del> <del>Jul-19-09</del>	comments due will be 60 days after 1st quarter 2008 report is issued ... <i>anticipated to be issued 6/30</i>
Secondary Documents	Draft Annual Report of Quarterly Monitoring, Oct 07 - May-05-09 Sept 08	Oct 07 - May-05-09	Jul-07-09	
Primary FFA Documents	Draft Remaining RI/FS Areas Management Plan, Rev C	Apr-30-09	Jun-30-09	agency approves extension on comment period from 6/4 to 6/30
Primary FFA Documents	Approval Memorandum Proposed No Action Site HA- May-13-09 79 - 22 Caliber Small Arms Range (public review)	May-13-09	Jun-17-09	30-day review period begins May 18 and ends June 17
Primary FFA Documents	Approval Memorandum Proposed No Action Site HA- May-13-09 92 - Old Demolition Tng Area (public review)	May-13-09	Jun-17-09	30-day review period begins May 18 and ends June 17
Primary FFA Documents	Approval Memorandum Proposed No Action Site HA- May-13-09 98 - Leary Hill Region (public review)	May-13-09	Jun-17-09	30-day review period begins May 18 and ends June 17
Primary FFA Documents	Approval Memorandum Proposed No Action Site HA- May-13-09 100-Demolition Tng Area (public review)	May-13-09	Jun-17-09	30-day review period begins May 18 and ends June 17
Primary FFA Documents	Approval Memorandum Proposed No Action Site HA- May-13-09 121 -Rifle Grenade Range (public review)	May-13-09	Jun-17-09	30-day review period begins May 18 and ends June 17
Primary FFA Documents	Approval Memorandum Proposed No Action Site HA- May-13-09 183 - Shoulder Launched Projectile (public review)	May-13-09	Jun-17-09	30-day review period begins May 18 and ends June 17
Primary FFA Documents	Draft Final Prescribed Burn Plan MRS-BLM Units 14 and 19	Apr-30-09	Jun-05-09	

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<u>Grouping</u>	<u>Issued Report</u>	<u>Date Issued</u>	<u>Date Comments Due</u>	<u>Notes/Comments Received</u>
Primary FFA Documents	Draft SSWP MEC Remedial Action Non-Burn Areas, Rev C	Apr-09-09	Jun-05-09	
Primary FFA Documents	Draft SSWP MEC Remedial Action MRS-BLM Units 14 and 19, Rev C	Apr-28-09	Jun-04-09	
Secondary Documents	Draft Prescribed Burn Air Monitoring Report, MRS-BLM Burn Units 18 and 22, Rev C	May-04-09	Jun-04-09	
Secondary Documents	Draft Final Sampling and Analysis Plan, OU2 and Sites 2/12 Groundwater Remedies	Apr-30-09	Jun-01-09	
Secondary Documents	Draft Final O&M Manual, OU2 and Sites 2/12 Groundwater Remedies, Vol 1 and 2	Apr-30-09	Jun-01-09	
ESCA Documents	Draft Final RD/RA, Land Use Controls Implementation, and O&M Plan, Parker Flats MRA Phase I	Apr-22-09	May-22-09	
Primary FFA Documents	Draft Remedial Action Report, MRS-16 MEC Removal, Rev C	Mar-04-09	May-15-09	FOEJN comments dated 4/17/09 rec'd 4/21/09. EPA comments 4/16/09. Comment due date extended to 5/30/09...Chieko to request comments earlier
Primary FFA Documents	Draft OUUCTP In Situ Bioremediation Pilot Study Completion Report, Rev C	Mar-17-09	May-07-09	DTSC comments 5/7/09.
Primary FFA Documents	Draft Final Track 2 Parker Flats RD/RAWP parcels F2.6, L2.3 and L2.4.1, Rev 0	Mar-31-09	May-07-09	FOCAG comments rec'd 5/7/09 (2 submissions)

## Issued Reports and Date Comments Due

<u>Grouping</u>	<u>Issued Report</u>	<u>Date Issued</u>	<u>Date Comments Due</u>	<u>Notes/Comments Received</u>
Secondary Documents	Draft Annual Groundwater Treatment System Operation Data Summary Rpt, Jan-Dec 2008, OU2 and 2/12	Mar-04-09	May-04-09	DTSC comments 5/5/09.
Primary FFA Documents	Draft Prescribed Burn 2008 MRS-BLM Units 18 and 22, After Action Report	Mar-27-09	Apr-30-09	issued with Notification Plan and Prescribed Burn Security After Action Reports. MBUAPCD comments 4/30/09. USEPA has no comments 5/7/09.
Secondary Documents	2009 Amendment, Final Prescribed Burn, Air SAP, MRS-BLM Burn Units 1-5 (Add Units 14 and 19), Rev C	Mar-23-09	Apr-30-09	
ESCA Documents	Draft RI/FS Work Plan, IA Ranges, MOU, Laguna Seca, DRO/MRY MRA's, FORA ESCA RP (Group 3)	Feb-27-09	Apr-30-09	Army comments 3/25/09. FOCAG comments 3/28/09. FOEJN comments 4/30/09 rec'd 5/1/09. EPA comments 4/24/09.
Primary FFA Documents	Approval Memo Proposed Interim Action Excavation IA Areas 39B HA-161	Mar-18-09	Apr-18-09	sent to agencies 3/18/09 on Army letterhead. CRWQCB comments 4/10/09. EPA comments 4/14/09. DTSC comments 5/1/09.
Secondary Documents	Draft Tech Memo Groundwater Remediation Exit Strategy, Sites 2/12 and OU2	Jan-15-09	Mar-31-09	CRWQCB comments 3/5/09. FOCAG (M. Weaver) comments 3/31/09. DTSC comments 4/2/09.
Secondary Documents	Draft Close Out Report, Pilot Soil Vapor Extraction and Treatment, OUC1P, Rev C	Jan-13-09	Mar-19-09	DTSC comments 3/17/09

## Reports to be issued

<u>Grouping</u>	<u>Report to be issued</u>	<u>Proposed Issue Date</u>	<u>Status</u>	<u>Date Comments Due (if applicable)</u>
Secondary Documents	Final 2007 Annual and Fourth Quarter Groundwater Monitoring Report, OU1	Sep-30-09		
Secondary Documents	Final 2008 Annual and Fourth Quarter Groundwater Monitoring Report, OU1	Aug-30-09		
Secondary Documents	Final Annual Report of Quarterly Monitoring, Oct 07 - Sept 08 Basewide Groundwater Monitoring	Aug-30-09		
Secondary Documents	2009 First Quarter Groundwater Monitoring Report, OU1	Jul-30-09	In Progress	N/A
Primary FFA Documents	Final FONR System Construction Report, OU1	Jul-30-09	In Progress	N/A
Secondary Documents	Draft Final SSHP, OU2 and Sites 2/12 GWETS	Jul-13-09		Aug-12-09
Secondary Documents	Draft Report of Off-Site GW Extraction Pilot Study and Quarterly Monitoring, Oct-Dec '08, OU1, Rev C	Jun-30-09		Aug-30-09
Secondary Documents	Draft 2007 Annual and Fourth Quarter Groundwater Monitoring Report, OU1 (comments due 60-days after First Quarter 2008 Groundwater Monitoring Report is issued)	Jun-30-09	In Progress	Aug-30-09
Secondary Documents	First Quarter 2008 Groundwater Monitoring Report, OU1 FAAF Fire Drill Area	Jun-30-09	In Progress	N/A
Secondary Documents	Final Rebound Evaluation Report, OU1	Jun-30-09		N/A
Secondary Documents	Draft Final Annual GTS Operation Data Summary Rpt, Jan-Dec 2008, OU2 and 2/12	May-31-09		Jun-30-09
Primary FFA Documents	Final Interim Hydraulic Control Pilot Project Evaluation Report, OU1 (DTSC comments on Final version issued in Jan '08 have been resolved. Revised Final version with response to comments is in progress)	May-31-09	In Progress	N/A
Primary FFA Documents	Draft Final Remedial Action Work Plan, OUCTP, Rev 0	May-30-09		Jun-30-09
Primary FFA Documents	Final ROD Amendment RI Site 39 (signature process)	May-30-09		
Secondary Documents	Draft Final Close Out Report, Pilot Soil Vapor Extraction and Treatment, OUCTP, Rev 0	May-30-09		

## Reports to be issued

Secondary Documents	Draft Final Tech Memo Groundwater Remediation Exit Strategy, Sites 2/12 and OU2	May-30-09	Jun-30-09
Secondary Documents	Report of Quarterly Monitoring, Oct-Dec 08, Basewide Groundwater Monitoring	May-29-09	N/A
Secondary Documents	Draft SSHP, OU2 and Sites 2/12 GWETS	May-14-09	Jun-12-09
Primary FFA Documents	Draft Final RD/RA Work Plan, Site 39 Remediation and OU2 Landfills Area E Construction, Rev 0	Apr-30-09	May-30-09
Secondary Documents	Final Analysis of the 2007 Community Survey Fort Ord	Dec-30-08	In Progress
Primary FFA Documents	Draft Final OUCTP In Situ Bioremediation Pilot Study Completion Report, Rev 0		TBD
Primary FFA Documents	Final OUCTP In Situ Bioremediation Pilot Study Completion Report		TBD
Secondary Documents	Report of Quarterly Monitoring, Jan-Mar 2009, Basewide Groundwater Monitoring		TBD



# Thermal Treatment Unit Operation Summary

## TREATMENT SYSTEM

Treatment System Start Date:	6/4/2001
TTU Start Date:	4/4/2006
Last Reading Date/Time:	5/1/2009
<b>Historical through 2008:</b>	
Total TTU Hours:	24,048
Total TTU Hours Operated:	9,743
% TTU Operation:	40.5%
Total Pounds of Methane Removed	1,331,230
Total Pounds of VOCs Removed	154
<b>Current Year 2009:</b>	
Total Hours:	2897
Total Hours Operated:	1131
% Operation:	39.0%
Pounds of Methane Removed	39,395
<b>Cumulative:</b>	
% TTU Operation (since 4/4/2006):	40.4%
Total Pounds of Methane Removed (since 6/4/2001):	1,370,625

## EXTRACTION SYSTEM (2009)

Location	Methane (%)	Flow Rate (scfm)	% Operational
<b>MIXED-TTU</b>	<b>40</b>	<b>97</b>	<b>39</b>
<b>Area F</b>			
EW-30	25	6	10
EW-31	37	6	27
EW-32	42	17	39
EW-33	42	19	39
EW-34	40	28	39
<b>Area D</b>			
EW-35	28	7	39
<b>Area E</b>			
EP-36	44	14	17

# OPERABLE UNIT CARBON TETRACHLORIDE PLUME A-AQUIFER REMEDIAL ACTION

**STATUS – May 19, 2009**

## **FIELD WORK**

- Installation and development of wells at Areas 1A and 1B complete – January 16
- Well vault and pipeline installation in Preston Park (Area 1B) complete – March 17

## **SCHEDULE**

- Subsequent quarterly monitoring for EISB pilot study conducted under Groundwater Monitoring Program.
- Draft EISB Pilot Study Report (Agency Review) – March 19. Comments due May 7. Comments received from DTSC.
- Draft RA Work Plan/RD (Appendix A – A-Aquifer) – Comments received from DTSC, RWQCB, EPA, FOEJN, and UCSC. RTC submitted for DTSC Comments with additional questions received on February 26. Meeting conducted to discuss DTSC concerns on March 5. Comments on RTC received from DTSC on March 9. Preparing RTC and red-line/strike-out version for Agency concurrence – May 22.
- Well vault and pipeline installation in Deployment Area 1A ongoing.

## **DATA (Preliminary)**

- None

## **PROBLEMS/CHANGES**

- Drill casing locked up while installing injection well IW-BW-90-A (Deployment Area 1A). Approximately 60 feet of drill casing was lost in the boring. Boring (with steel casing) was grouted to ground surface. New well was installed adjacent to proposed location.

# OPERABLE UNIT 1 OFF-SITE GROUNDWATER EXTRACTION PILOT STUDY

STATUS – May 19, 2009

## FIELD WORK

- Well construction complete – December 21
- Draft Final OU1 Pilot Study Work Plan distributed – April 22
- Baseline sampling and analysis – June 14
- System construction completed – July 16
- Monitoring well (City of Marina) installation – July 28
- System start-up – August 5
- Extraction Well EW-OU1-92-A shut off – December 11.
- July to September 2008, Quarterly Report Issued – January 20. Comments received from DTSC and FOEJN. Notice from FOEJN that they disagree with system shutdown. RTC sent out on May 5.
- Field Work Variance issued to document system shut-off – February 16.
- Groundwater extraction system shut off and rebound testing initiated – February 17.
- Quarterly sampling of monitoring and extraction wells – March 16.
- Sampled GAC for waste profiling – March 24.
- System restarted (EW-OU1-93-A operating) – April 7.
- October to December, Quarterly Report Issued – May 11.

## SCHEDULE

- Continue system operation.
- Continue monthly sampling and analysis through June 2009 (MW-OU1-78-A, MW-OU1-79-A, and MW-OU1-94-A) (last sampled April 14).

## DATA (Preliminary)

- Preliminary monitoring data from April 14 and system data through April.

## PROBLEMS/CHANGES

- Treated groundwater is being discharged to a discharge basin within the MCWD property. An injection well was not installed.
- One monitoring well has been installed in the City of Marina to determine the downgradient extent of the plume. Well number and location is based on the decision criteria in the Draft Work Plan.
- Extraction Well EW-OU1-92-A shut off due to concerns of potential impact to OU1 On-Site GWETS plume capture.
- GWETS was shut off and rebound testing initiated because concentrations of TCE in all off-site wells are below Aquifer Cleanup Levels.
- GWETS restarted because TCE concentration in EW-OU1-93-A rebounded to 7.4 µg/L. TCE concentration in all other monitoring wells below detection limit.

Summary of Operable Unit 1 Off-Site Monitoring Well Analytical Results

Well Identification	Elevation (ft amsl)	TCE <sup>a</sup> March 28-30, 2006 (µg/L)	TCE May 4, 2006 (µg/L)	TCE May 23, 2006 (µg/L)	TCE September 25, 2006 (µg/L)	TCE Feb 2 & 5, 2007 (µg/L)	TCE April 3, 2007 (µg/L)	TCE May 22, 2007 (µg/L)	TCE September 25, 2007 (µg/L)	TCE December 26, 2007 (µg/L)
MW-OUI-75A	35.87	2.1	1.7	0.28J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-OUI-75A	30.87	14	9.8	2.4	9.8	2.4	1.8	0.82	0.59	0.45A
MW-OUI-75A	25.87	15	9.5	2.5	0.58	0.58	1.7	0.9	0.75	0.46J
MW-OUI-75A	20.87	17	9.5	2.6	15	15	1.6	0.69	0.76	0.47J
MW-OUI-75A	15.87	20	25(26)	18(18)	0.75	0.75	11	12	3.1	2
MW-OUI-76A	32.83	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-OUI-76A	27.33	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-OUI-76A	22.33	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-OUI-76A	17.33	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-OUI-76A	12.33	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-OUI-77A	29.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-OUI-77A	24.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-OUI-77A	19.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-OUI-78A	29.91	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-OUI-78A	24.91	3.2	2.1J <sup>b</sup>	1.4	1.5	1.5	0.85	0.6J	0.56	0.36J
MW-OUI-78A	19.91	2.7	2.3(2.1)	1.1(1.2)	1.7	1.7	0.94	0.81J	0.91	0.47J
MW-OUI-79A	29.72	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-OUI-79A	24.72	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-OUI-79A	19.72	<0.5	<0.5	<0.5	0.59	0.67(0.85)	3.3(3.6)	3.8J(4.0J)	2.9(4.5)	1.3(1.9)
MW-OUI-80A	25.32	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-OUI-80A	20.32	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-OUI-80A	15.32	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-OUI-80A	10.32	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-OUI-81A	21.39	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-OUI-81A	16.39	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-OUI-81A	6.39	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-OUI-81A	1.39	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-OUI-82A	31.18	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-OUI-82A	24.68	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-OUI-82A	18.18	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-OUI-82A	12.31	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-OUI-82A	7.27	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-OUI-82A	26.72	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-OUI-82A	21.8	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-OUI-82A	16.89	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-OUI-82A	11.97	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-OUI-82A	7.01	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-OUI-82A	18.8	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-OUI-82A	13.5	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-OUI-82A	8.3	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-OUI-82A	3.1	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-OUI-82A	-2.1	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-OUI-82A	-7.3	NS	NS	NS	NS	NS	NS	NS	NS	NS

<sup>a</sup> There is no associated discrete depth with the well development samples. These are composites.  
<sup>b</sup> Data qualified as "J" is estimated with low bias.  
<sup>c</sup> Data qualified as "UJ" is estimated non-detect due to quality control outliers.  
<sup>d</sup> An estimated concentration of carbon disulfide detected in this sample (0.75J).  
<sup>e</sup> cis-1,2-dichloroethylene also detected at 0.26J µg/L.  
<sup>f</sup> cis-1,2-dichloroethylene also detected at 0.35J µg/L.  
<sup>g</sup> tetrachloroethylene also detected at 0.27J µg/L.

Detections are shown in bold.  
 If amsl denotes feet above mean sea level.  
 µg/L denotes micrograms per liter.  
 TCE denotes trichloroethylene.

Summary of Operable Unit 1 Off-Site Monitoring Well Analytical Results

Well Identification	Elevation (ft amsl)	TCE February 27, 2008 (µg/L)	TCE July 14, 2008 (µg/L)	TCE September 15, 2008 (µg/L)	TCE December 8, 2008 (µg/L)	TCE March 16, 2009 (µg/L)	TCE April 14, 2009 (µg/L)
MW-OUI-75A	35.87	NS	NS	NS	NS	NS	NS
MW-OUI-75A	30.87	NS	NS	NS	NS	NS	NS
MW-OUI-75A	25.87	NS	NS	NS	NS	NS	NS
MW-OUI-75A	20.87	NS	NS	NS	NS	NS	NS
MW-OUI-75A	15.87	1.9	1.4	1/1.3	0.21J(0.22J)	<0.5	NS
MW-OUI-76A	32.33	NS	NS	NS	NS	NS	NS
MW-OUI-76A	27.33	NS	NS	NS	NS	NS	NS
MW-OUI-76A	22.33	NS	NS	NS	NS	NS	NS
MW-OUI-76A	17.33	NS	NS	NS	NS	NS	NS
MW-OUI-76A	12.33	<0.5	<0.5	<0.5	<0.5	<0.5	NS
MW-OUI-77A	29.1	<0.5	<0.5	<0.5	<0.5	<0.5	NS
MW-OUI-77A	24.1	NS	NS	NS	NS	NS	NS
MW-OUI-78A	29.81	NS	NS	NS	NS	NS	NS
MW-OUI-78A	24.81	NS	NS	NS	NS	NS	NS
MW-OUI-78A	19.81	0.37J	0.67	0.56	0.21J	<0.5	0.21J
MW-OUI-79A	29.72	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 (<0.5)
MW-OUI-79A	24.72	NS	NS	NS	NS	NS	NS
MW-OUI-79A	19.72	3.0(4.1) <sup>o</sup>	10(2.0) <sup>o</sup>	0.22J	<0.5	<0.5	<0.5
MW-OUI-80A	25.92	NS	NS	NS	NS	NS	NS
MW-OUI-80A	20.92	NS	NS	NS	NS	NS	NS
MW-OUI-80A	15.92	NS	NS	NS	NS	NS	NS
MW-OUI-80A	10.92	<0.5	<0.5	<0.5	<0.5	<0.5	NS
MW-OUI-81A	21.89	<0.5	<0.5	<0.5	<0.5	<0.5	NS
MW-OUI-81A	16.89	NS	NS	NS	NS	NS	NS
MW-OUI-81A	11.89	NS	NS	NS	NS	NS	NS
MW-OUI-81A	6.89	NS	NS	NS	NS	NS	NS
MW-OUI-81A	1.89	<0.5	<0.5	<0.5	<0.5	<0.5	NS
MW-OUI-89A	31.18	<0.5 <sup>o</sup>	<0.5	NS	NS	NS	NS
MW-OUI-89A	24.68	<0.5	<0.5	NS	NS	NS	NS
MW-OUI-89A	18.18	<0.5	<0.5	<0.5	<0.5	<0.5	NS
MW-OUI-90A	27.31	<0.5	<0.5	<0.5	<0.5	<0.5	NS
MW-OUI-90A	22.31	<0.5	<0.5	NS	NS	NS	NS
MW-OUI-90A	17.31	<0.5	<0.5	NS	NS	NS	NS
MW-OUI-90A	12.31	<0.5	<0.5	NS	NS	NS	NS
MW-OUI-90A	7.27	<0.5	<0.5	<0.5	<0.5	<0.5	NS
MW-OUI-91A	26.72	<0.5	<0.5	<0.5	<0.5	<0.5	NS
MW-OUI-91A	21.8	<0.5	<0.5	NS	NS	NS	NS
MW-OUI-91A	16.89	<0.5	<0.5	NS	NS	NS	NS
MW-OUI-91A	11.97	<0.5	<0.5	NS	NS	NS	NS
MW-OUI-91A	7.01	<0.5	<0.5	<0.5	<0.5	<0.5	NS
MW-OUI-94A	18.6	NS	NS	0.36J	0.21J	<0.5	0.21J
MW-OUI-94A	13.5	NS	NS	0.36J	NS	NS	NS
MW-OUI-94A	8.3	NS	NS	0.36J	NS	NS	NS
MW-OUI-94A	3.1	NS	NS	0.36J	NS	NS	NS
MW-OUI-94A	-2.1	NS	NS	0.36J	NS	NS	NS
MW-OUI-94A	-7.3	NS	NS	0.47J	<0.5	<0.5	0.21J

**Summary of Operable Unit 1 Process System  
Trichlorethene Analytical Results**

Date	Sample Location				
	Extraction Wells		Granular Activated Carbon Beds		
	OU1PS-EW-92	OU1PS-EW-93	OU1PS-INF	OU1PS-BTW	OU1PS-EFF
August 5, 2008 <sup>a</sup>	1.2 µg/L	14 <sup>b</sup> µg/L			
August 11, 2008 <sup>a</sup>	3.4 µg/L	8.7 <sup>c</sup> µg/L	5.4 µg/L	<0.5 µg/L	<0.5 µg/L
August 18, 2008 <sup>a</sup>	3.7 µg/L	6.1 <sup>d</sup> µg/L	4.7 µg/L	<0.5 µg/L	<0.5 µg/L
August 25, 2008 <sup>a</sup>	3.8 µg/L	not operating	3.6 µg/L	<0.5 µg/L	<0.5 µg/L
September 2, 2008 <sup>a</sup>	3.3 µg/L	6.8 <sup>e</sup> µg/L	4.7 µg/L	<0.5 µg/L	<0.5 µg/L
September 8, 2008 <sup>a</sup>			4.1 µg/L	<0.5 µg/L	<0.5 µg/L
September 15, 2008 <sup>a</sup>	2 µg/L	4.9 <sup>f</sup> µg/L	3.5 µg/L	<0.5 µg/L	<0.5 µg/L
September 22, 2008 <sup>a</sup>	1.4 µg/L	3.4 µg/L	1.3 µg/L	<0.5 µg/L	<0.5 µg/L
September 29, 2008 <sup>a</sup>	1.4 µg/L	3.5 µg/L	1.5 µg/L	<0.5 µg/L	<0.5 µg/L
October 6, 2008 <sup>a</sup>	1.4 µg/L	3.7 µg/L	2.5 µg/L	<0.5 µg/L	<0.5 µg/L
October 13, 2008 <sup>a</sup>	0.98 µg/L	3.7 µg/L	2.0 µg/L	<0.5 µg/L	<0.5 µg/L
October 20, 2008 <sup>a</sup>	0.90 µg/L	2.6 µg/L	1.6 µg/L	<0.5 µg/L	<0.5 µg/L
October 27, 2008	0.68 µg/L	1.9 µg/L	1.2 µg/L	<0.5 µg/L	<0.5 µg/L
November 3, 2008	0.74 µg/L	1.9 µg/L	1.3 µg/L	<0.5 µg/L	<0.5 µg/L
November 10, 2008			1.3 µg/L	<0.5 µg/L	<0.5 <sup>g</sup> µg/L
November 17, 2008			1.1 µg/L	<0.5 µg/L	<0.5 µg/L
November 24, 2008			1.2 µg/L	<0.5 µg/L	<0.5 µg/L
December 1, 2008			1.3 µg/L	<0.5 µg/L	<0.5 µg/L
December 8, 2008	0.62 µg/L	2.1 µg/L	1.3 µg/L	<0.5 µg/L	<0.5 µg/L
December 16, 2008			2.8 µg/L	<0.5 µg/L	<0.5 µg/L
December 22, 2008			2.2 µg/L	<0.5 µg/L	<0.5 µg/L
December 29, 2008			2.2 µg/L	<0.5 µg/L	<0.5 µg/L
January 5, 2009			2.1 µg/L	<0.5 µg/L	<0.5 µg/L
January 12, 2009			2.2 µg/L	<0.5 µg/L	<0.5 µg/L
January 19, 2009			2.1 µg/L	<0.5 µg/L	<0.5 µg/L
January 27, 2009			2.2 µg/L	<0.5 µg/L	<0.5 µg/L
February 3, 2009			2.2 µg/L	<0.5 µg/L	<0.5 µg/L
February 10, 2009			2.0 µg/L	<0.5 µg/L	<0.5 µg/L
February 17, 2009	1.3 µg/L	2.1 µg/L	2.2 µg/L	<0.5 µg/L	<0.5 µg/L
March 16, 2009	1.4 µg/L	7.4 <sup>h</sup> µg/L			
April 14, 2009			4.2 µg/L	<0.5 µg/L	<0.5 µg/L
April 21, 2009			3.0 µg/L	<0.5 µg/L	<0.5 µg/L
April 27, 2009			2.4 µg/L	<0.5 µg/L	<0.5 µg/L
May 5, 2009			2.5 µg/L	<0.5 µg/L	<0.5 µg/L

<sup>a</sup> Low level detections of benzene, bromoform, chloromethane, dibromochloromethane, isopropylbenzene and/or acetone in several samples.

<sup>b</sup> additional compound detected: cis-1,2-dichloroethylene - 0.43J µg/L

<sup>c</sup> additional compound detected: cis-1,2-dichloroethylene - 0.31J µg/L

<sup>d</sup> additional compound detected: cis-1,2-dichloroethylene - 0.21J µg/L

<sup>e</sup> additional compound detected: cis-1,2-dichloroethylene - 0.21J µg/L

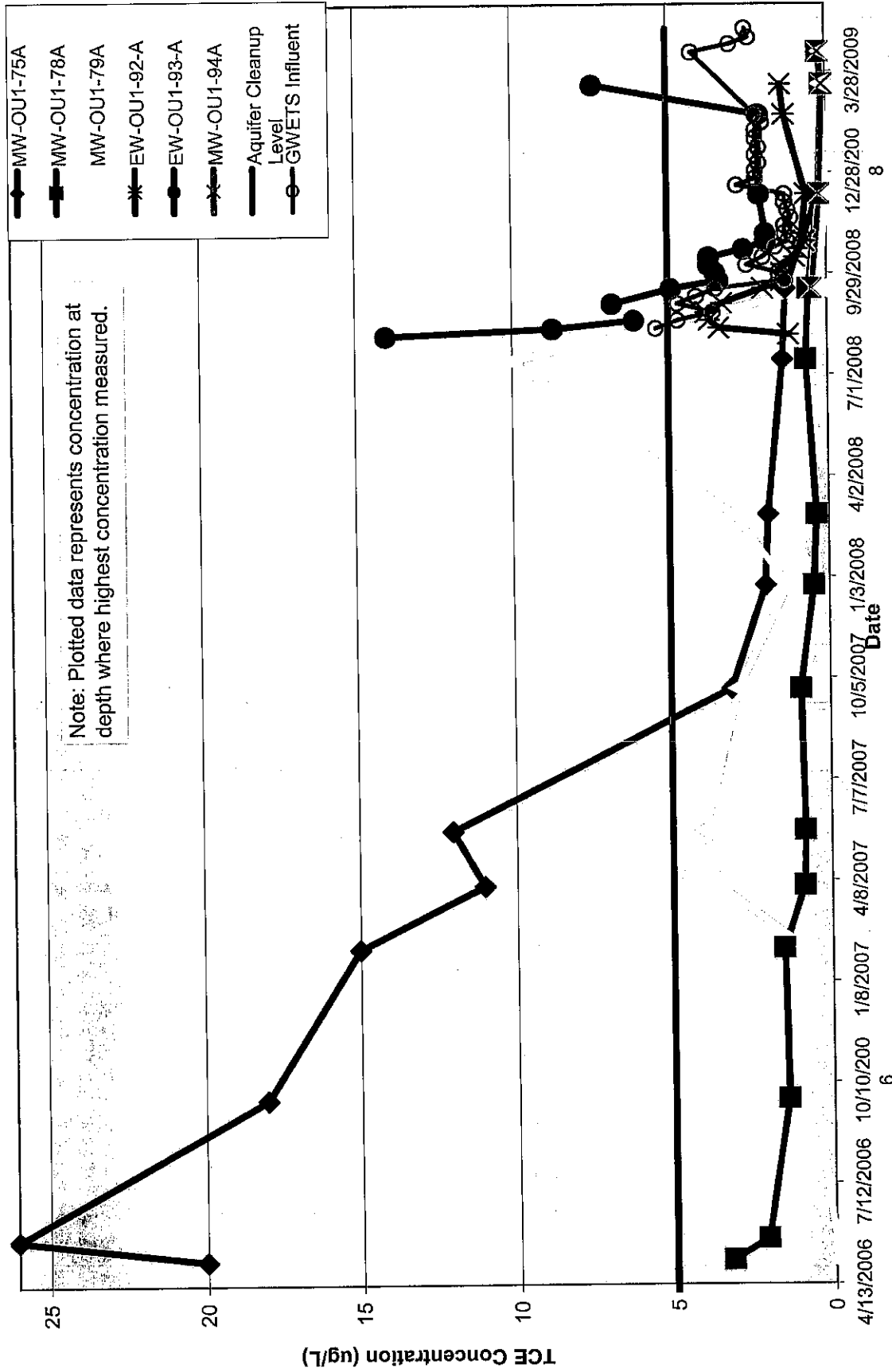
<sup>f</sup> additional compound detected: cis-1,2-dichloroethylene - 0.26J µg/L

<sup>g</sup> additional compound detected: chloromethane - 0.39J µg/L

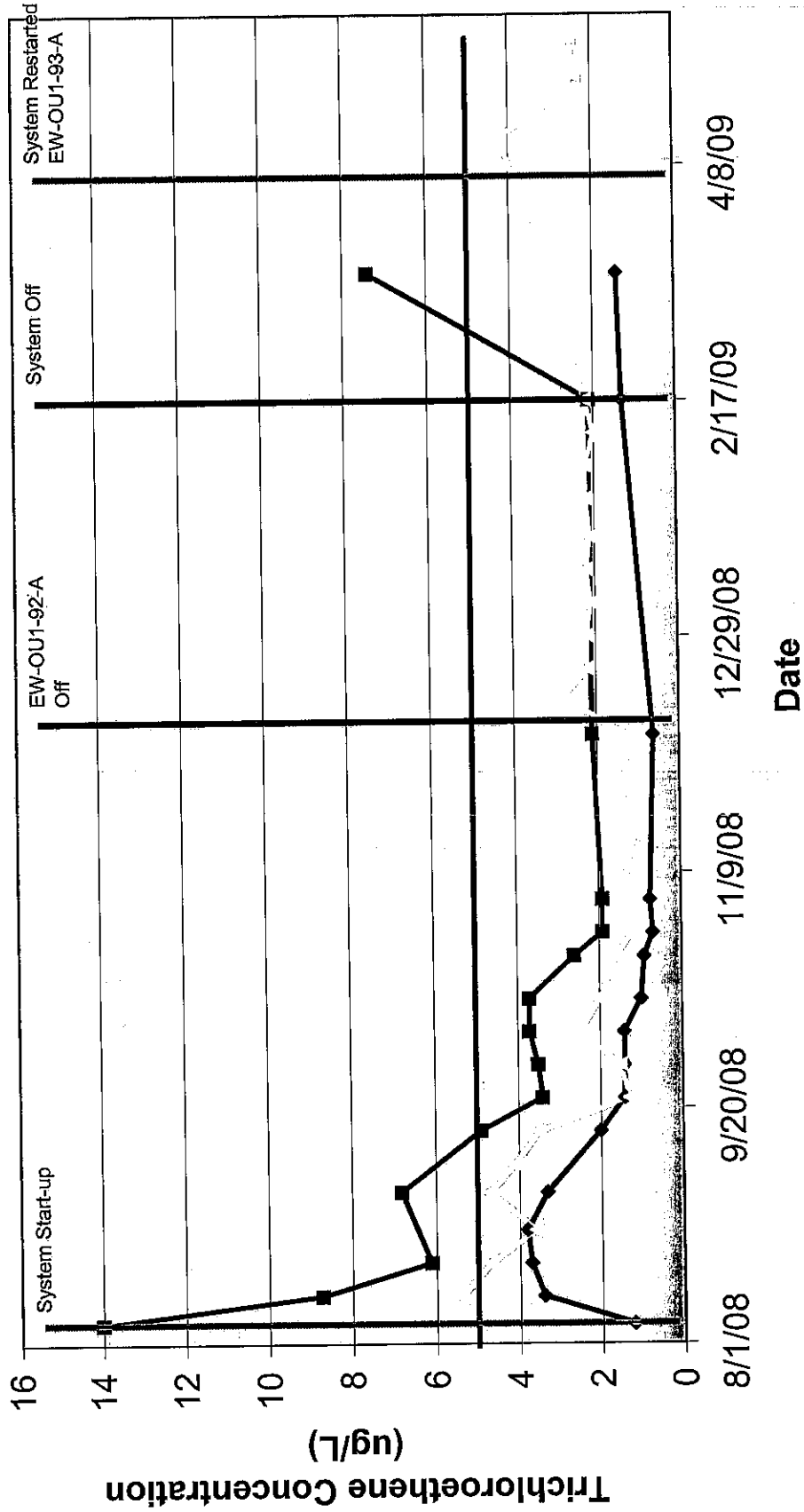
<sup>h</sup> additional compound detected: cis-1,2-dichloroethylene - 0.34J µg/L

Detections are shown in bold.  
µg/L denotes micrograms per liter.  
Data qualified as "J" is estimated.

### Change in TCE Concentration Over Time OU1 Off-Site Wells



# Change in Concentration of Trichloroethene Over Time System Monitoring



OU1PS-EW-92   
  OU1PS-EW-93   
  OU1PS-INF   
  Aquifer Cleanup Level



## ***Property Transfer Update 05-19-09***

### **FOSET 5 deeds:**

## **May 8, 2009 – deeds recorded, property transferred (3,337 acres)!**

### **FOST 10 deeds:**

1. May 15 – eight of ten deeds negotiated and submitted to FORA for review and signature.
2. Deed for Parcel L3.2 is on hold pending agreement between York School (recipient), FORA and Monterey County.
3. Deed for Parcel L23.5.2 is for public benefit conveyance to Monterey Peninsula College (FORA is not involved in transaction).

### **FOSET 2 deed amendments:**

1. Five deed amendments were issued to FOSET 2 property recipients for signature:
  - a. Monterey-Salinas Transit – signed and returned to USACE.
  - b. City of Marina – reviewed by Kutak Rock, comments submitted to USACE.
  - c. City of Seaside – reviewed by Kutak Rock, comments submitted to USACE.
  - d. University of California (UC) – comments submitted to USACE.
  - e. CSUMB – tabled pending completion of FOSET 5 deed.
2. Sixth deed amendment for Parcel L37 is pending.
3. “Hold harmless” provision likely to be deleted per discussions with Kutak Rock. All deed amendments may be reissued for signature.

### **FOSET 4 deed amendments:**

1. ROD for Del Rey Oaks MRA complete and signed.
2. One deed amendment issuing the CERCLA Warranty drafted, but finalization pending completion of FOSET 2 deed amendments.

### **FOSET 5 deed amendments:**

1. ROD for Parker Flats MRA complete and signed, Draft Final LUCI and O&M Plan complete.
2. Three deed amendments issuing the CERCLA Warranty for Parker Flats area drafted, but finalization pending completion of FOSET 2 deed amendments and transfer of FOSET 5 Parker Flats parcels (FORA schedule indicates deed amendments to be recorded by October 5, 2009).

### **Parcel F7.1 (FO-30, FOST 6):**

1. Army/UC MOA states this parcel to be transferred to University of California (UC).
2. Transfer status uncertain because incorrect legal description was included in the deed.
3. Correction deed drafted to transfer to FORA.
4. When correction deed is recorded, FORA should be able to deed directly to UC.



## Former Fort Ord OU2 and Sites 2/12 Groundwater Treatment Systems Optimization Status Update, May 19, 2009

### ***GWTS Actions***

#### **Recently completed:**

- Variable Frequency Drives (VFDs) on five wells – EW-12-07-180M, EW-OU2-02-180, EW-OU2-03-180, EW-OU2-05-180, EW-OU2-06-180
- Sites 2/12 GWTP surge protection
- New breaker panel at Eastern Network (Marina Heights)

#### **In progress:**

- Rekey and padlock GWTSs
- Site 12 GWTP effluent and OU2 excess pipeline actuated valves
- Security cameras at GWTPs

### ***Modeling***

- Evaluate various extraction well operational configurations to optimize capture and mass removal
- AES is appropriating new computer hardware to run modeling software, and will submit a request to USACE for use of the software.

### ***Documents***

- Draft Final Annual Evaluation Report (to be issued by June 3, 2009)
  - Comments received from DTSC
  - RWQCB indicated it would have no comments
  - USEPA?
- Draft Final O&M Manual (comments due June 1, 2009)
- Draft Final SAP (comments due June 1, 2009)



## Former Fort Ord Groundwater Treatment Systems Operational Data and Status

BCT Meeting, May 19, 2009

**Table 1:** OU2 and Sites 2/12 GWTP Treatment Statistics.

	Volume Treated (gallons)	Average Flow (gpm)	Percent of Time Online	COC Mass Removed (lbs)
<b>OU2</b>				
April 2009	26,363,010	610	99	2.63
Total since October 1995	4.489 billion			624.34
<b>Sites 2/12</b>				
April 2009	8,980,100	208	96	1.34
Total since May 1999	1.202 billion			414.89

**Table 2:** OU2 and Sites 2/12 GWTP Calendar of Events.

<b>Key Events for OU2 and Sites 2/12 for April 2009</b>						
<b>*There were 26 USAN Notices transmitted to Ahtna during the month of April. None of these alerts required the personal attention of the Senior GWTP Operator.</b>						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			<b>1</b> GAC-B fill pipe replacement; 2/12 GWTP down for 10 hours.	<b>2</b>	<b>3</b>	<b>4</b>
<b>5</b>	<b>6</b> Faulty analog inputs at EW-OU2-04-180.	<b>7</b>	<b>8</b>	<b>9</b> GWTP Process sampling at OU2.	<b>10</b> GAC-A fill pipe replacement; 2/12 GWTP down for 7 hours.	<b>11</b>
<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b> GWTP Process sampling at OU2; Lost communication to the Shoppette network.	<b>16</b>	<b>17</b> IQ Analyzer replaced; Install surge suppressor; 2/12 GWTP down for 4 hours.	<b>18</b>
<b>19</b>	<b>20</b> Completed surge suppressor install; 2/12 GWTP down for 1 hour.	<b>21</b> Power failure: 2/12 and OU2 GWTPs down for 4 hours.	<b>22</b>	<b>23</b> GWTP Process sampling at OU2.	<b>24</b>	<b>25</b>
<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b> GWTP Process sampling at OU2.		

**Table 3:** April of 2009 - OU2 Analytical Results at TS-OU2-INJ.

COC	Discharge Limit (µg/L)‡	Sample Date / Analytical Results			
		4/09/2009	4/15/2009	4/23/2009	4/30/2009
1,1-DCA	5.0*	0.47 J	0.29 J-	0.36 J	0.43 J
1,2-DCA	0.50	0.14 J	ND	0.11 J	0.14 J
1,2-DCP	0.50	ND	ND	ND	ND
Benzene	0.50	ND	ND	ND	ND
Carbon Tetrachloride	0.50	ND	ND	ND	ND
Chloroform	2.0*	0.27 J	0.16 J-	0.20 J	0.22 J
Cis-1,2-DCE	6.0*	0.80	0.47 J-	0.62	0.61
Methylene Chloride	0.50	ND	ND	ND	ND
PCE	0.50	ND	ND	ND	ND
TCE	0.50	0.13 J	ND	0.11 J	0.10 J
Vinyl Chloride	0.10	ND	ND	ND	ND

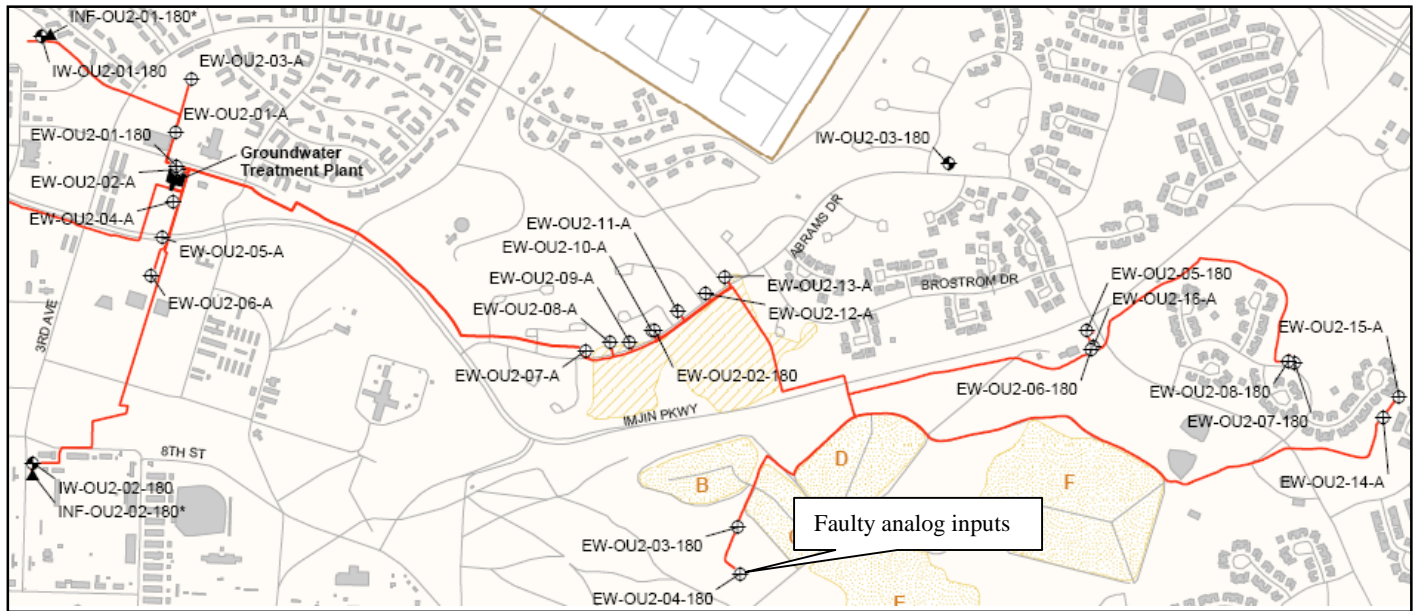
**Table 4:** April of 2009 - Sites 2/12 Analytical Results at TS-212-INJ.

COC	Discharge Limit (µg/L)‡	Sample Date / Analytical Results
1,1-DCE	6.0	In accordance with the sampling schedule in the SAP, no GWTP sampling was performed in April. Scheduled process sampling performed May 07, 2009
1,2-DCA	0.50	
1,3-DCP †	0.50	
Chloroform	2.0	
Cis-1,2 DCE	6.0	
PCE	3.0	
TCE	5.0	
Vinyl Chloride	0.10	

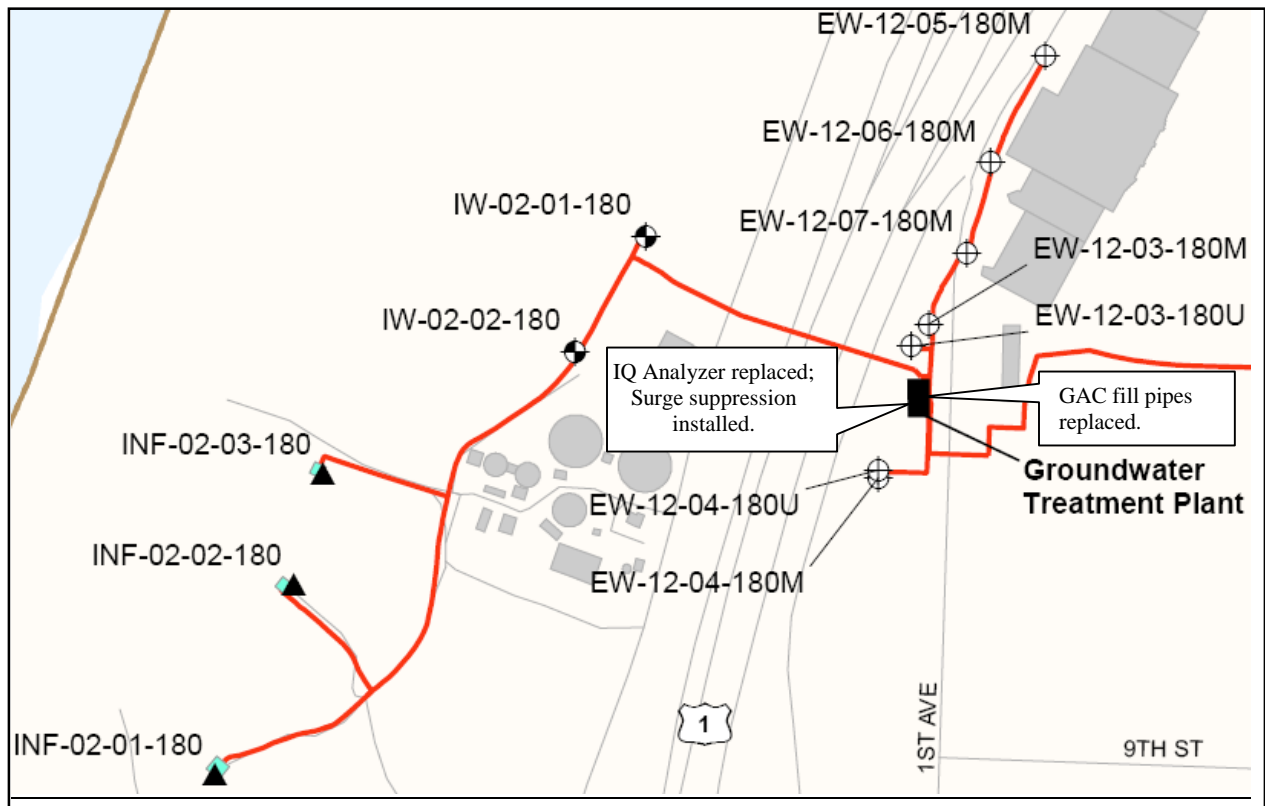
**NOTES:**

- J The analyte was positively identified, but the associated numerical value is an approximate concentration greater than the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).
- ND The analyte was not detected above MDL.
- \* Discharge limits for low carbon affinity compounds were increased to the Aquifer Cleanup Level (ACL).
- ‡ Discharge limits are the ACLs for injection over the plume.
- † The reported value is the sum of both cis- and trans-isomers.
- J± Data are qualified as estimated, with a high (+) or low (-) bias likely to have occurred. False positives or false negatives are unlikely to have been reported.

**Figure 1: OU2 GWTP Treatment Events April 2009.**



**Figure 2: Sites 2/12 GWTP Treatment Events April 2009.**





**Table 5:** April 2009 OU2 and Sites 2/12 Extraction Well Status.

Well Identification	% On	Avg. gpm	Total Gallons	% of Total	Comments	TCE (µg/L) Q1_2009
<b>Site 12 Extraction Wells</b>						
EW-12-05-180M	97.1	64.9	2,804,200	31.2		9.8
EW-12-06-180M	97.1	80.1	3,459,100	38.5		7.8
EW-12-07-180M	89.9	29.1	1,259,100	14.0		3.2
EW-12-03-180U	0	0	0	0	Well offline due to low concentrations	0.21
EW-12-03-180M	52.3	33.7	1,457,700	16.2		9.0
EW-12-04-180U	0	0	0	0	Well offline due to low concentrations.	1.3
EW-12-04-180M	0	0	0	0	Ceased operating on 11/21/2005.	not sampled
<b>Total 2/12 gallons treated:</b>			<b>8,980,100</b>	<b>100.0</b>		
<b>OU2 Extraction Wells</b>						
<b>Western Network</b>						
EW-OU2-01-A	0	0	0	0	Well offline due to low concentrations.	not sampled
EW-OU2-02-A	100	50.8	2,194,050	8.3		0.64
EW-OU2-03-A	0	0	0	0	Well offline due to low concentrations.	0.82
EW-OU2-04-A	100	51.3	2,214,480	8.4		1.3
EW-OU2-05-A	100	50.8	2,192,880	8.3		2.3
EW-OU2-06-A	100	36.5	1,578,030	6.0		5.0
EW-OU2-01-180	0	0	0	0	No pump in well.	9.8
<b>Total gallons extracted:</b>			<b>8,179,440</b>	<b>31.1</b>		
<b>Eastern Network</b>						
EW-OU2-07-A	0	0	0	0	Well offline due to low concentrations.	ND
EW-OU2-08-A	64.7	20.1	867,760	3.3		1.1
EW-OU2-09-A	100	19.9	858,130	3.3		4.5
EW-OU2-10-A	100	18.4	794,480	3.0		3.6
EW-OU2-11-A	0	0	0	0	Low flow due to biofouling.	3.0
EW-OU2-12-A	0	0	0	0	Offline due to low yield/slow recovery.	9.4
EW-OU2-13-A	79.0	25.4	1,099,200	4.2		9.5
EW-OU2-02-180	100	35.0	1,512,000	5.7		1.8
<b>Total gallons extracted:</b>			<b>5,131,570</b>	<b>19.5</b>		
<b>Shoppette</b>						
EW-OU2-05-180	65.7	43.0	1,858,300	7.1		5.4
EW-OU2-06-180	91.0	61.1	2,638,600	10.0		2.3
EW-OU2-16-A	0	0	0	0	Pump runs in manual mode only.	7.9
<b>Total gallons extracted:</b>			<b>4,496,900</b>	<b>17.1</b>		
<b>CSUMB</b>						
EW-OU2-14-A	4.5	1.4	60,100	0.2		4.4
EW-OU2-15-A	0	0	0	0	Well offline due to low concentrations.	not sampled
<b>Total gallons extracted:</b>			<b>60,100</b>	<b>0.2</b>		
<b>Landfill</b>						
EW-OU2-03-180	77.0	154.9	6,693,000	24.0		22.9
EW-OU2-04-180	1.6	0	0	0	Well offline due to low concentrations.	0.16
<b>Total gallons extracted:</b>			<b>6,693,000</b>	<b>25.4</b>		
<b>Bunker Hill</b>						
EW-OU2-07-180	0	0	0	0	No pump in well.	4.9
EW-OU2-08-180	100	41.1	1,775,000	6.7		0.61
<b>Total gallons extracted:</b>			<b>1,775,000</b>	<b>6.7</b>		
<b>Total OU2 gallons treated:</b>			<b>26,336,010</b>	<b>100.0</b>		

## HGL AGENDA & NOTES

Fort Ord HTW BCT Meeting  
10:00 AM, 19 May 2009  
Monterey, California

### **1. Groundwater Remediation System Update**

The Northwest Treatment System (NWTS) has operated continuously since the last update at the BCT meeting on 22 April 2009. However, the flow controller for the injection pump stopped operating on 19 April and all treated water has been discharged to the NW infiltration trench since that time. On 20 April, extraction wells EW-OU1-63-A (typically pumping <1 gpm) and MW-OU1-46-AD (typically pumping ~ 22 gpm) were shut down to reduce flow volume pending replacement of the flow controller for the injection pump. The replacement flow controller arrived but was damaged in shipment and was returned. Replacement is currently scheduled for 18 May 2009.

Total volume pumped through 13 May 2009 is 94,071,620 gallons. The average weekly treatment rate was approximately 82 gpm up to 20 April and has been approximately 60 gpm since then. The flow meter at extraction well EW-OU1-62-A stopped working but the well is still pumping. Through 13 May 2009, the NWTS has removed approximately 3.4 pounds (0.28 gallons) of TCE and 0.3 pounds (0.03 gallons) of cis-1,2-DCE.

The routine bi-monthly performance samples from the treatment system and extraction wells were collected on 09 March 2009. Validated results are summarized in Table 1. TCE concentrations in the extraction wells exceeded the Aquifer Cleanup Level (ACL) only at MW-OU1-87-A and EW-OU1-71-A. With the exception of EW-OU1-60-A, TCE concentrations at the extraction wells were either unchanged from the January results or declined by 0.1 µg/L. This variation is well within the accuracy of the sampling and analytical methods. At EW-OU1-60-A, TCE increased to 0.95 µg/L from 0.48 µg/L, however, because of the low pumping rates at this well (typically around 1.25 gpm) the TCE mass removal rate is insignificant (approximately 0.005 pounds annually).

Cis-1,2-DCE concentrations in March were virtually identical to those measured in January (Table 1). The TCE concentration reported in the NWTS influent sample increased slightly (approximately 10%) but this is believed to be associated with normal variability and precision in the laboratory analytical methods. None of the contaminants of concern were detected in the NWTS effluent.

### **2. Long Term Monitoring Update**

1<sup>st</sup> Quarter 2009 LTM samples were collected during the week of 09 – 13 March. The first quarter sampling includes those monitoring wells sampled on semi-annual and quarterly frequencies. Data validation results showed no qualifiers for TCE data. MEK was detected in the field blank at 0.73 µg/L; consequently, three samples initially reported at less than 2.0 µg/L were qualified as “non-detect” for MEK. Peak TCE concentrations continued to decline. The maximum TCE concentration reported in the 1<sup>st</sup> Quarter was 10 µg/L at well EW-OU1-53-A. Preliminary analytical results are shown in the attached Figure 1.

### **3. Report Submittals**

The Draft 2008 Annual and Fourth Quarter Groundwater Monitoring Report was submitted on 06 May 2009. The 2008 First Quarter and 2007 Annual LTM reports are in preparation and planned for submittal within the next three weeks. These reports are secondary deliverables. The Final FONR Construction Report (primary deliverable) will be submitted this month.

The DTSC comments on the Final Hydraulic Control Pilot Project Construction Report have been resolved. A letter indicating that that no further edits are needed and corrected cover pages will be submitted.

#### **4. 2009 Long Term Monitoring Program**

At the April BCT meeting the agencies agreed to modify system performance sampling to quarterly and LTM program to semiannual. The next sampling events will be in June for system performance and in September for both system performance and LTM. Subsequent to the April BCT meeting, DTSC accepted the proposed sample frequency modifications submitted at that meeting with one exception: MW-OU1-09-A will be sampled at a 5-year interval rather than suspended.



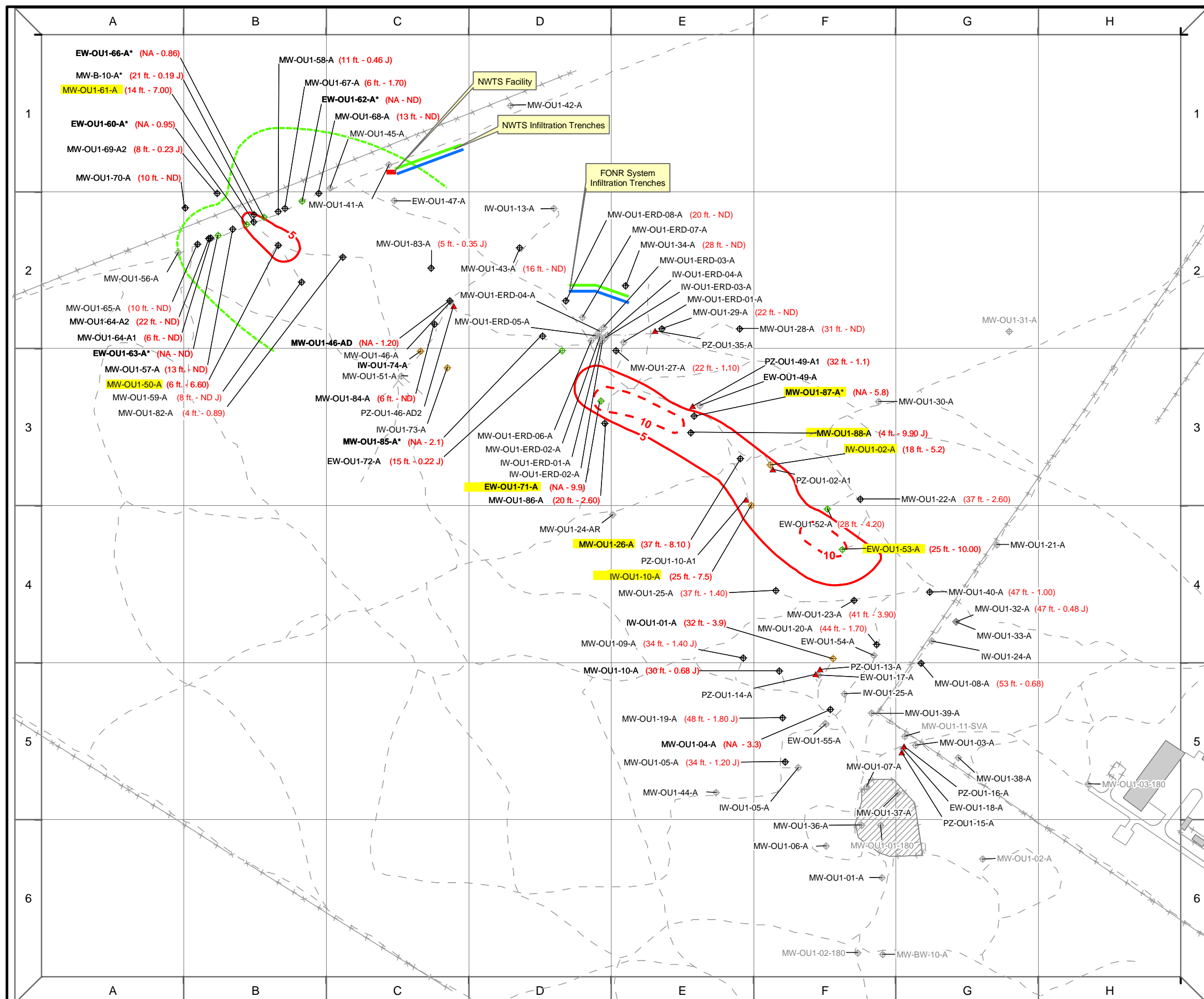
**Table 1**

**TCE and Cis-1,2-DCE in OU-1 FONR Groundwater Remediation System - Performance Monitoring**

**BCT Meeting for Former Fort Ord, Marina CA - 19 May 2009**

Sample Date	Extraction Well								NWTS		
	Began Operation October 2007				Began Operation July 2006				INFLUENT	MIDPOINT	EFFLUENT
	MW-87	EW-71	MW-85	MW-46AD	EW-60	EW-62	EW-63	EW-66			
<b>TCE (µg/L)</b>											
11/9/2007	<b>16</b>	<b>13</b>	<b>19</b>	<b>14</b>	ND	ND	ND	1.7	<b>11</b>	ND	ND
1/18/2008	<b>11</b>	<b>11</b>	<b>8.9</b>	<b>8.2</b>	ND	ND	ND	1.2	<b>6.0</b>	ND	ND
3/18/2008	<b>11</b>	<b>14</b>	<b>6.7</b>	<b>5.8</b>	0.29	ND	ND	1.5	<b>5.6</b>	ND	ND
5/27/2008	<b>9.7</b>	<b>18</b>	2.5	<b>6.1</b>	ND	ND	ND	1.8	3.9	ND	ND
7/21/2008	<b>9.1</b>	<b>14</b>	4.4	3.4	0.78	ND	ND	1.4	3.6	ND	ND
9/29/2008	<b>9.3</b>	J <b>15</b>	J 4.3	J 2.9	J 0.90	J ND	J ND	J 1.7	J 3.8	J 0.19	J ND
12/1/2008	<b>5.8</b>	<b>11</b>	2.6	1.6	0.82	ND	ND	0.91	2.7	0.35	J ND
1/26/2009	<b>5.9</b>	<b>10</b>	2.2	1.2	0.48	J ND	ND	0.78	2.4	ND	ND
3/9/2009	<b>5.8</b>	<b>9.9</b>	2.1	1.2	0.95	ND	ND	0.86	2.7	ND	ND
<b>cis-1,2-DCE (µg/L)</b>											
11/9/2007	1.9	1.6	2.3	1.70	ND	ND	ND	ND	1.3	ND	ND
1/18/2008	1.20	1.40	1.00	1.20	ND	ND	ND	0.11	0.66	ND	ND
3/18/2008	1.20	1.50	0.74	0.63	ND	ND	ND	ND	0.59	0.11	ND
5/27/2008	0.88	2.10	0.26	0.74	ND	ND	ND	ND	0.36	0.21	ND
7/21/2008	0.80	1.50	0.52	0.37	ND	ND	ND	ND	0.41	0.34	ND
9/29/2008	0.99	1.60	0.54	0.30	ND	ND	ND	0.13	0.42	0.42	0.12
12/1/2008	0.67	1.30	0.33	0.21	J ND	J ND	J ND	J ND	0.27	J 0.37	J 0.19
1/26/2009	0.63	1.20	0.29	J 0.12	J ND	J ND	J ND	J ND	0.26	J 0.24	J ND
3/9/2009	0.62	1.20	0.29	J 0.13	J ND	J ND	J ND	J ND	0.23	J 0.26	J ND
<b>Bold font indicates concentration &gt; ACL</b>											

**Figure 1**  
**OU-1 FONR**  
**TCE Concentrations in Groundwater**  
**First Quarter 2009**



**Legend**

- ⊕ Monitoring Well
- ⊕ Extraction Well
- ⊕** Bold font indicates active well.
- ⊕ Injection Well
- ⊕** Bold font indicates active well.
- ⊕ Well Not Sampled
- ▲ Piezometer
- MW-OU1-87-A** Locations With March 2009 TCE Concentration At Or Above ACL (5 µg/L)
- 5-** TCE Contour (µg/L) Based on March 2009 Data
- - - Inferred Extent - See Notes Below
- MW-OU1-87-A (42 ft. - 9.30) Well ID
- March 2009 TCE Result (µg/L)
- Sample Elevation (feet above mean sea level)
- - - Trail/Unimproved Road
- ××× Fence
- Estimated Northwest Treatment System Capture Zone
- ▨ Former Fire Drill Area

Notes:  
 Units of TCE concentrations are in ppb  
 ND = Non-detect  
 NA = Depth is not applicable - sample is from pumping well  
 J = Estimated Value  
 µg/L = Micrograms per liter  
 Wells shown with an asterisk were not used to develop contour boundaries. Active extraction wells were typically not included because the data is not location-specific. Data from extraction well EW-OU1-71-A was used to infer the 10 µg/L TCE contour (shown as dashed line) because the results at that well (9.9 µg/L) and at MW-OU1-88-A (also 9.9 µg/L) suggest higher TCE concentrations in that vicinity. The TCE concentration at EW-OU1-53-A was 10 µg/L and nearby well data was less than 10 µg/L. Consequently, the 10 µg/L contour enclosing well EW-OU1-53-A was also dashed because the extent is inferred from recent results. Data from MW-B-10-A was excluded because the well does not fully penetrate the A-Aquifer. Well names appearing in gray were not included in OU1-Groundwater Monitoring Program. Wells for which no data are posted were not sampled.

0 200 400 800  
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