

**Former Fort Ord Operable Unit (OU)-1 – Base Closure Team (BCT) Meeting
Status Update
Groundwater Remediation, Well Destruction, and Treatment Plant Decommissioning
Marina, California
28 May 2015**

OU-1 On-Post Activities for 01 April through 15 May 2015

Prepared by HydroGeoLogic, Inc., Roy Evans, Project Manager

Attendees: (to be revised after meeting)

Individual	Attended?	Individual	Attended?
James Specht, USACE		Grant Himebaugh, RWQCB	
Teresa Rodgers, USACE		Edward Ticken, AMEC	
Alex Kan, USACE		Jeff Fenton, AMEC	
Bonnie McNeil, USACE		Derek Lieberman, Ahtna	
Cory Koger, USACE		Brad Clark, Ahtna	
William Collins, BRAC		Holly Dillon, Ahtna	
Tom Ghigliotto, Chenega ¹		Kevin Ghalambor, Burleson	
Melissa Broadston, Chenega ¹		Peter Kelsall, CB&I	
Bart Kowalski, Chenega ¹		Steve Crane, Gilbane	
Cary Stiebel, Chenega ¹		Erin Caruso, Gilbane	
Lewis Mitani, EPA		Lindsay Alexander, Gilbane	
Martin Hausladen, EPA		Larry Friend, Gilbane	
Kimberly Gettman, DTSC		Kevin Siemann, Gilbane	
Min Wu, Ph.D., DTSC		Roy Evans, HGL	
Steve Sterling, DTSC		Kevin Wierengo, HGL	
Edward Walker, DTSC		Gage Dayton, Ph.D., UCSC	
X = attended in person or by telephone; blank indicates absent from the meeting			

¹Chenega staff supporting the BRAC
Ahtna = Ahtna Engineering Services
BRAC = Base Realignment and Closure Fort Ord Office
CB&I = Chicago Bridge & Iron, Inc.
DTSC = California Department of Toxic Substances Control

EPA = U.S. Environmental Protection Agency
HGL = HydroGeoLogic, Inc.
RWQCB = Regional Water Quality Control Board
UCSC = University of California, Santa Cruz
USACE = U.S. Army Corps of Engineers

OU-1 Treatment Plant Operations

HGL was on site on 10 April 2015 and 12 May 2015 to inspect the NWTS. There was no significant rainfall accumulation in the NWTS containment basin. HGL informed the Base Closure Team (BCT) at the October BCT meeting that the Northwest Treatment System (NWTS) shut down on 15 October 2014. As agreed at that meeting, the plant will remain offline pending review of the results from the December sampling event. PG&E re-connected power to the system on 16 January 2015. HGL attempted to restart the system after power was restored. The programmable logic control system appears to be undamaged but the variable frequency drive

(VFD) for the transfer pump (connecting the influent holding tank to the treatment vessels) is inoperable. HGL is working with the Army to adjust the current contract to obtain the necessary replacement parts. After the transfer pump VFD is replaced, HGL will determine if there was any other damage and make necessary repairs to restore operability.

Since system startup in 2006, the NWTs has pumped approximately 212 million gallons of groundwater and removed approximately 6.0 pounds of total volatile organic compounds, primarily trichloroethene (TCE).

OU-1 Groundwater Sampling and Analytical Results

Tables 1A and 1B show the validated TCE and cis-1,2-dichloroethene concentrations, respectively, found in the extraction wells and treatment system in the September 2014 sampling event—the NWTs has been off-line during subsequent groundwater sampling events. Figure 5.2 from the 2014 Annual Groundwater Monitoring Report shows the September 2014 TCE concentrations and is included for reference in Attachment 1.

Groundwater sampling for Attainment Event #1 was performed on 07-08 May for the chemicals of concern (COCs) listed in the OU-1 Record of Decision (ROD) and on 11-12 May for the emerging contaminants perfluorooctanoic acid (PFOA) and perfluorooctanesulfonate (PFOS). Preliminary analytical results are expected during the last week of May.

HGL checked the total depth (TD) at each well to confirm placement of the passive diffusion bag (PDB) and Hydrasleeve samplers. All measurements showed close agreement to the TD reported during well construction except at 2-inch well PZ-OU1-10-A1—the TD at this well was 4.9 feet more shallow than reported during construction. The Hydrasleeve sample also showed the presence of formation material and sand in the sample collected (as shown in photograph),



indicating that the well casing and /or well screen may be damaged. Visual inspection of the well did not show any evidence of vandalism or damage to the surface casing. There was no

evidence of suspended material in the PDB sample. The sample for PFOA and PFOS analysis was collected from the upper part of the Hydrasleeve where there was less suspended material.

Because of the potential for analytical results to be impacted by the suspended material, HGL recommends that this well be removed from the Attainment Monitoring well network for future PFOA and PFOS analysis. There are two wells in the network that are located upgradient from PZ-OU1-10-A1 and five wells that are located downgradient. Wells EW-OU1-52-A and EW-OU1-53-A are found approximately 330 feet and 435 feet upgradient, respectively. The nearest downgradient wells (IW-OU1-02-A and MW-OU1-26-A) are approximately 165 feet and 170 feet distant, respectively. If this recommendation is accepted, there will still be 6 sampling locations in the central part of the OU-1 with a distance of approximately 870 feet between the upgradient well (EW-OU1-53-A) and downgradient 2-inch diameter well (PZ-OU1-49-A1) (see attached figure). Because the PDB sample is not affected by the damaged well, PZ-OU1-10-A1 would remain in the Attainment Monitoring network for COC sampling. If determined that an additional sample location is required to replace PZ-OU1-10-A1, HGL recommends either EW-OU1-72-A, MW-OU1-82-A, or MW-OU1-50-A. These wells are located along the migration path for maximum observed OC concentration in previous sampling. Please see Figure 5 and Table 3 (included in Attachment 1) for locations and summary of previous results.

Table 4 shows the preliminary, unvalidated results for the COC sampling effort. All wells showed COC concentrations that are less than the cleanup targets. Except for the duplicate sample at MW-OU1-61-A (at 4.4 micrograms per liter [$\mu\text{g/L}$] versus 3.9 $\mu\text{g/L}$ in the parent sample), the maximum TCE concentration was 4.0 $\mu\text{g/L}$.

Reporting/Federal Facility Agreement Schedule

All scheduled submittals have been made and the status of submitted and anticipated reports for 2015 is summarized in Table 2. Change pages to indicate “Final” status for the Exit Strategy Technical Memorandum and the updated UFP-QAPP were distributed last week.

OU-1 Weed Control and Rare Plant Monitoring

The Army sent the 2014 Fort Ord Natural Reserve Impact Assessment and Habitat and Rare Plant Species Survey Results Report to the U.S. Fish and Wildlife Service in April.

The sand gilia (SG) and Monterey spineflower (MSp) are reaching peak bloom periods separately this year. The rare plant survey for SG was performed on 26 – 27 March. The MSp survey was conducted on 16 – 17 April 2015. At wells to be sampled during the attainment monitoring, MSp was observed only at wells MW-OU1-61-A and EW-OU1-53-A. HGL’s subcontractor biologist marked the plant locations at MW-OU1-61-A and advised the field team concerning the widespread extent of MSp at EW-OU1-53-A. These results are consistent with past surveys. HGL noted that neither SG nor MSp have been observed in any previous survey at 5 of the 8 attainment monitoring locations. In addition, MSp was seen only in the 1998 “optimal conditions” survey at 2 of the other 3 locations. Both species have been seen in the previous 4 rare plant surveys at the 8th location (EW-OU1-53-A) and again this year.

Action Items:

- The Draft Final Exit Strategy Technical Memorandum and Draft UFP-QAPP update were accepted as Final without comment.

Ongoing:

- Submit draft minutes for previous BCT meeting(s)—draft minutes for April 2015 were submitted for regulatory agency review. Thus far, DTSC and RWQCB approved the minutes without comment.
- Submit final minutes for previous BCT meeting(s) — complete through March 2015.

**Fort Ord HTW BCT Meeting
28 May 2015**

**Fort Ord Operable Unit 1
Groundwater Remediation, Well Destruction, and Treatment Plant Decommissioning**

ATTACHMENT 1

Reference Table(s) and Figure(s)

Table 1A
TCE in OU-1 FONR Groundwater Remediation System – Performance Monitoring
Former Fort Ord – 28 May 2015

Began:	FONR Extraction Well (listed from south to north)								Boundary Extraction Well (from west to east)						NWTS							
	Nov-10	Oct-07							Jul-06						INFLUENT	MIDPOINT	EFFLUENT					
Date	IW-10	MW-87	EW-71	MW-85	MW-46AD	EW-63	EW-60	EW-66	EW-62	INFLUENT	MIDPOINT	EFFLUENT										
TCE (µg/L)																						
11/9/07	Used as monitoring well until pump installed in October 2010. Pumping began 03 November 2010.	16		13		19		14		ND		ND		1.7		ND		11		ND		ND
1/18/08		11		11		8.9		8.2		ND		ND		1.2		ND		6.0		ND		ND
3/18/08		11		14		6.7		5.8		ND		0.29		1.5		ND		5.6		ND		ND
5/27/08		9.7		18		2.5		6.1		ND		ND		1.8		ND		3.9		ND		ND
7/21/08		9.1		14		4.4		3.4		ND		0.78		1.4		ND		3.6		ND		ND
9/29/08		9.3	J	15	J	4.3	J	2.9	J	ND		0.90	J	1.7	J	ND		3.8	J	0.19	J	ND
12/1/08		5.8		11		2.6		1.6		ND		0.82		0.91		ND		2.7		0.35	J	ND
1/26/09		5.9		10		2.2		1.2		ND		0.48	J	0.78		ND		2.4		ND		ND
3/9/09		5.8		9.9		2.1		1.2		ND		0.95		0.86		ND		2.7		ND		ND
6/11/09		6.9		11		2.4		1.5		ND		0.88		1.7		ND		2.6		0.14	J	ND
9/15/09		6.8		9.4		1.7		0.78		ND		inactive		1.1		0.036	J	2.3		0.35	J	ND
12/14/09		6.9		7.5		0.84		not sampled		not sampled		inactive		0.94		not sampled		2.3		0.65	J	ND
3/22/10		7.2		8.5		0.62		0.55		inactive		ND		0.90		inactive		2.3		ND		ND
6/21/10		7.4		6.5		0.90		0.40	J	inactive		0.86		0.58		inactive		2.1		ND		ND
9/20/10		7.7		6.6		0.83		0.35	J	discontinued		0.63		0.49	J	inactive		2.3		not sampled		ND
12/16/10		5.2		6.9		0.58		0.28	J	discontinued		0.72		0.42	J	inactive		2.6		0.18	J	ND
3/7/11		5.1		6.0		4.6		0.55		discontinued		0.87		0.42	J	inactive		2.5		0.59		ND
6/7/11		4.2		6.1		4.0		0.78		discontinued		0.76		0.36	J	inactive		2.6		1.0		ND
9/20/11		4.5		6.2		4.2		1.10	J	discontinued		0.57		0.36	J	inactive		2.5		1.7		ND
12/7/11		3.8		5.1		3.7		not sampled		discontinued		inactive		0.27	J	inactive		1.8		2.1		0.13
3/15/12	3.7		5.5		3.8		0.70	J	discontinued		inactive		0.38	J	inactive		0.81		0.32	J	ND	
9/25/12	--		5.3		4.4		--		discontinued		inactive		0.19	J	inactive		1.8		0.72	J	ND	
1/8/13	--		5.4		--		--		discontinued		ND		0.19	J	inactive		1.5		--		ND	
3/27/13	--		4.8		--		--		discontinued		ND		0.23	J	inactive		1.5		--		ND	
6/26/13	--		4.4		--		--		discontinued		--		--		inactive		1.7		--		ND	
9/18/13	--		4.7		1.9		--		discontinued		0.17	J	0.31	J	inactive		2.0		--		ND	
12/17/13	2.8		4.2		--		--		discontinued		--		--		inactive		2.1		--		--	
3/27/14	--		3.4	A	0.89	A	--		discontinued		0.22	J/A	0.29	J/A	inactive		1.7		0.92	J/A	ND	A
6/27/14	--		3.7		--		--		discontinued		--		--		inactive		0.28		0.39	J	ND	
9/2/14	2.2		4.2		0.88		--		discontinued		0.25	J	0.26	J	inactive		1.0		0.41	J	ND	

Notes:

Italics (if used) indicate data not yet validated

Bold font indicates concentration > ACL

ACL - aquifer cleanup level

-- Not sampled

µg/L - micrograms per liter

J - Data qualified as estimated

ND - nondetect

TCE - trichloroethene

NWTS - Northwest Treatment System

FONR - Fort Ord Natural Reserve

Blue font indicates the concentration is calculated using the weighted average of the active pumping wells.

Table 1B
cis-1,2-DCE in OU-1 FONR Groundwater Remediation System – Performance Monitoring
Former Fort Ord – 28 May 2015

Began: Date	FONR Extraction Well (listed from south to north)								Boundary Extraction Well (from west to east)						NWTS										
	Nov-10		Oct-07						Jul-06						INFLUENT		MIDPOINT		EFFLUENT						
	IW-10		MW-87	EW-71	MW-85	MW-46AD			EW-63	EW-60	EW-66	EW-62													
cis-1,2-DCE (µg/L)																									
11/09/07	Used as monitoring well until pump installed in October 2010. Pumping began 03 November 2010.		1.9		1.6		2.3		1.70		ND		ND		ND		1.3		ND		ND				
01/18/08			1.20		1.40		1.00		1.20		ND		ND		0.11		ND		0.66		ND		ND		
03/18/08			1.20		1.50		0.74		0.63		ND		ND		ND		ND		0.59		0.11		ND		
05/27/08			0.88		2.10		0.26		0.74		ND		ND		ND		ND		0.36		0.21		ND		
07/21/08			0.80		1.50		0.52		0.37		ND		ND		ND		ND		0.41		0.34		ND		
09/29/08			0.99		1.60		0.54		0.30		ND		ND		0.13		ND		0.42		0.42		0.12		
12/01/08			0.67		1.30		0.33		0.21	J	ND		ND		ND		ND		0.27	J	0.37	J	0.19	J	
01/26/09			0.63		1.20		0.29	J	0.12	J	ND		ND		ND		ND		0.26	J	0.24	J	ND		
03/09/09			0.62		1.20		0.29	J	0.13	J	ND		ND		ND		ND		0.23	J	0.26	J	ND		
06/11/09			0.71		1.10		0.30	J	0.13	J	ND		ND		0.14	J	ND		0.24	J	0.28	J	ND		
09/15/09			0.80		1.00		0.22	J	0.08	J	ND		inactive		0.03	J	ND		0.22	J	0.37	J	0.03	J	
12/14/09			0.67		0.65		0.10	J	not sampled		not sampled		inactive		ND	J	not sampled		0.21	J	0.30	J	0.11	J	
03/22/10			0.67		0.79		ND		ND		inactive		ND		ND		inactive		0.20	J	0.11	J	0.13	J	
06/21/10			0.67		0.53		0.14	J	ND		inactive		ND		ND		inactive		0.20	J	0.23	J	ND		
9/20/10			0.66		0.46	J	ND		ND		discontinued		ND		ND		inactive		0.23	J	not sampled		ND		
12/16/10		0.55		0.66		0.35	J	ND	J	ND		discontinued		ND		ND		inactive		0.27	J	0.28	J	ND	
3/7/11		0.37	J	0.52		0.28	J	0.11	J	ND		discontinued		ND		ND		inactive		0.23	J	0.30	J	ND	
6/7/11		0.35	J	0.55		0.29	J	ND		ND		discontinued		ND		ND		inactive		0.18	J	0.31	J	0.15	J
9/20/11		0.25	J	0.46	J	0.21	J	ND		ND		discontinued		ND		ND		inactive		0.17	J	0.19	J	0.30	J
12/7/11		0.27	J	0.48	J	0.19	J	not sampled				discontinued		inactive		ND		inactive		0.16	J	0.17	J	0.23	J
3/15/12	0.15	J	0.40	J	0.22	J	0.15	J	ND		discontinued		inactive		ND		inactive		ND		0.24	J	ND		
9/25/12	--		0.39	J	0.23	J	--		--		discontinued		inactive		ND		inactive		ND		0.24	J	ND		
1/8/13	--		0.35	J	--		--		--		discontinued		ND		ND		inactive		0.12		--		--		
3/27/13	--		0.34	J	--		--		--		discontinued		ND		ND		inactive		0.12		--		--		
6/26/13	--		0.31	J	--		--		--		discontinued		--		--		inactive		0.27		--		--		
9/18/13	--		ND		ND		--		--		discontinued		ND		ND		inactive		ND		--		ND		
12/17/13	ND		0.19	J	--		--		--		discontinued		--		--		inactive		0.23		--		--		
3/27/14	--		0.16	J/A	--		--		--		discontinued		ND	A	ND	A	inactive		0.21		ND	A	ND	A	
6/27/14	--		ND		--		--		--		discontinued		--		--		inactive		ND		0.43	J	0.17	J	
9/2/14	ND		0.21	J	ND		--		--		discontinued		ND		ND		inactive		ND		0.48	J	ND		

Notes:

Italics (if used) indicate data not yet validated

Bold font indicates concentration > ACL

ACL - aquifer cleanup level

-- - Not sampled

µg/L - micrograms per liter

J - Data qualified as estimated

ND - nondetect

TCE - trichloroethene

NWTS - Northwest Treatment System

FONR - Fort Ord Natural Reserve

NA - Not Available

Blue font indicates the concentration is calculated using the weighted average of the active pumping wells.

Table 2
Current Deliverable Schedule
Former Fort Ord, Marina, CA – 28 May 2015

Deliverable Title	Submittal	Review Comments Due	Status/Remarks
<i>Primary Deliverables</i>			
None Pending			
<i>Secondary Deliverables</i>			
2015 Semi-Annual Groundwater Monitoring Report	December 2014	January 2015	In progress.
Draft Final Exit Strategy Technical Memorandum	March 2015	April 2015	Approved without comment. Change pages distributed 12 May 2015.
Site Safety and Health Plan Update	March 2015	Not Applicable	Army approved revisions.
Draft UFP-QAPP 2014 Update	March 2015	April 2015	Approved without comment. Change pages distributed 14 May 2015.
<i>Completed Recent Submittals</i>			
Draft UFP-QAPP	March 2014	May 2014	Submitted 04 March 2014
Final UFP-QAPP	May 2014	Received	Submitted 29 May 2014
Final 2013 Annual and 3rd Quarter Groundwater Monitoring Report	April 2014	NA	Submitted 04 April 2014
Final Work Plan for Well Destruction and Treatment Plant Demolition	April 2014	NA	Submitted 04 April 2014
Draft Health & Safety Plan – OU-1 O&M/LTM	May 2014	Received	Draft accepted as Final
Draft Well Destruction and Treatment Plant Demolition Completion Report	August 2014	September 2014	Draft accepted as Final Submitted 03 October 2014
Draft Exit Strategy Technical Memorandum	December 2014	February 2015	Comments received 20 February 2015
Draft 2014 Annual Groundwater Monitoring Report	December 2014	January 2015	Accepted as Final without Comment

¹ The Semiannual Groundwater Monitoring Report is submitted as a final document but review comments are accepted. Any comments are addressed in the Annual Groundwater Monitoring Report.

Table 3
TCE Monitoring Summary for Existing OU-1 Wells and Piezometers,
Former Fort Ord, California

Existing Monitoring Well Identification	Year Installed	TCE Sample Results Summary	Most Recent TCE Concentration		Initial Sample	Total Number of Samples Collected	Number Samples with TCE > MCL	Date Last TCE > MCL	
			µg/L	Qualifier					Sample Date
<i>Wells or Piezometers Located Along the Main Path of Plume Travel</i>									
EW-OU1-53-A	2004	Last 2 consecutive samples < MCL (collected in 2012 & 2014)	1.9		09/02/2014	9/13/2007	14	12	6/7/2011
EW-OU1-52-A	2004	Last 3 consecutive samples < MCL (collected in 2012, 2013, & 2014)	2.9		09/02/2014	9/13/2007	13	8	9/21/2011
PZ-OU1-10-A1	2005	Last 3 consecutive samples < MCL (collected in 2012, 2013, & 2014)	2.4		09/02/2014	9/22/2010	18	7	3/15/2012
IW-OU1-02-A	2004	Last 4 consecutive samples < MCL (collected in 2010 & 2011)	3.8		09/21/2011	3/15/2006	12	2	9/16/2009
MW-OU1-26-A	1998	Last 5 consecutive samples < MCL (collected in 2010 & 2011)	2.7		09/02/2014	3/15/2006	25	19	9/27/2012
MW-OU1-88-A	2006	Last 4 consecutive samples below the MCL (4.1 µg/L - 4.7 µg/L)	4.7		09/02/2014	11/7/2006	32	28	12/17/2013
			4.1		12/22/2014				
EW-OU1-49-A	2004	Sampling was suspended in 2008 due to the proximity to PZ-OU1-49-A1 (these locations are 30 feet apart), which consistently had higher TCE concentrations than EW-OU1-49-A. PZ-OU1-49-A1 is included in the attainment monitoring network.	8.5		3/14/2007	3/15/2006	6	6	3/14/2007
PZ-OU1-49-A1	2004	Last 11 Consecutive samples < MCL (2008 through 2014). Note: Located next to EW-OU1-49-A.	1.2		09/02/2014	3/15/2006	23	12	3/20/2008
MW-OU1-86-A	2006	Last 5 samples have been < 1 µg/L (2011 through 2014).	0.42	J	9/2/2014	11/7/2006	19	0	--
MW-OU1-27-A	1998	Last 5 samples have been < 1 µg/L (2008 through 2011).	0.33	J	3/8/2011	6/7/2006	11	3	9/11/2007
EW-OU1-72-A	2006	Last 11 samples ND or < 1 µg/L (2008 through 2014).	0.78		9/2/2014	11/8/2006	16	3	9/11/2007
MW-OU1-84-A	2006	Last 5 samples have been ND (2008 through 2011).	ND		9/22/2011	11/8/2006	12	4	9/11/2007
MW-OU1-83-A	2006	Last 6 samples have been ND or < RL (2008 through 2011).	0.15	J	9/22/2011	11/8/2006	12	0	--
MW-OU1-82-A	2006	Last 9 samples have been < 1.4 µg/L (2007 through 2011).	0.61		9/22/2011	11/8/2006	15	0	--
MW-OU1-50-A	2004	Last 6 samples have been ND or < RL (2010 through 2013).	ND		9/18/2013	5/18/2006	30	16	3/10/2009
MW-OU1-67-A	2006	Decreasing trend observed since March 2007 (11 samples).	0.63		9/20/2011	5/18/2006	22	0	--
MW-OU1-57-A	2004	All TCE results have been ND since January 2007 (20 samples).	ND		9/2/2014	3/16/2006	34	8	8/7/2006
MW-OU1-58-A	2006	TCE has been less than RL since June 2008 (13 samples).	ND		9/2/2014	5/18/2006	34	0	--
MW-OU1-61-A	2006	Last two samples collected are < MCL	4.7		09/02/2014	5/18/2006	55	49	6/27/2014
			4.6		12/22/2014				
<i>Wells or Piezometers Not Located Along the Main Path of Plume Travel or Not Sampled</i>									
PZ-OU1-02-A	2004	Used for groundwater elevation only. Adjacent to IW-OU1-02-A.	--		--	--	--	--	--
MW-OU1-46-A	2001	Screen bottom is above groundwater contamination zone.	ND		9/26/2006	4/30/2001	27	0	--
PZ-OU1-46-AD2	2005	Used for groundwater elevation only. Adjacent to MW-OU1-46-AD.	--		--	--	--	--	--
MW-OU1-59-A	2004	All TCE results have been ND.	ND		9/30/2008	3/16/2006	8	0	--
MW-OU1-68-A	2006	All TCE results have been ND.	ND		3/10/2009	5/18/2006	20	0	--

Blue shading indicates included in attainment monitoring network.

Notes:

-- = not applicable
µg/L = micrograms per liter
< = less than
> = greater than
COC - contaminant of concern

EW = extraction well
IW = injection well
J = Data qualified as estimated.
MCL = Maximum Contaminant Level (specified in OU-1 Record of Decision)
MW = monitoring well

ND = nondetect
OU1 = Operable Unit 1
PZ = piezometer
RL = reporting limit
TCE = trichloroethene

Table 4
OU-1 Attainment Monitoring Results - Unvalidated TCE Concentrations

Monitoring Well Identification	Most Recent Pre-Attainment TCE Concentration			Attainment Event #1 (8 May 2015)	Initial Sample	Total Number of Samples Collected	Number of Samples with TCE > MCL	Date Last TCE > MCL
	$\mu\text{g/L}$	Qualifier	Sample Date	TCE ($\mu\text{g/L}$)				
EW-OU1-53-A	1.9		09/02/2014	<i>1.6</i>	9/13/2007	15	12	6/7/2011
EW-OU1-52-A	2.9		09/02/2014	<i>3.8</i>	9/13/2007	14	8	9/21/2011
PZ-OU1-10-A1	2.4		09/02/2014	<i>3.3</i>	9/22/2010	19	7	3/15/2012
IW-OU1-02-A	3.8		09/21/2011	<i>1.8</i>	3/15/2006	13	2	9/16/2009
MW-OU1-26-A	2.7		09/02/2014	<i>2.5</i>	3/15/2006	26	19	9/27/2012
MW-OU1-88-A	4.7		09/02/2014	<i>4.0</i>	11/7/2006	33	28	12/17/2013
	4.1		12/22/2014					
PZ-OU1-49-A1	1.2		09/02/2014	<i>1.8</i>	3/15/2006	24	12	3/20/2008
MW-OU1-61-A	4.7		09/02/2014	<i>3.9</i>	5/18/2006	56	49	6/27/2014
	4.2		12/22/2014					
	4.0*		09/02/2014	<i>4.4*</i>				
	4.6*		12/22/2014					

Notes:

Italic font indicates preliminary, unvalidated data

* = Duplicate

$\mu\text{g/L}$ = micrograms per liter

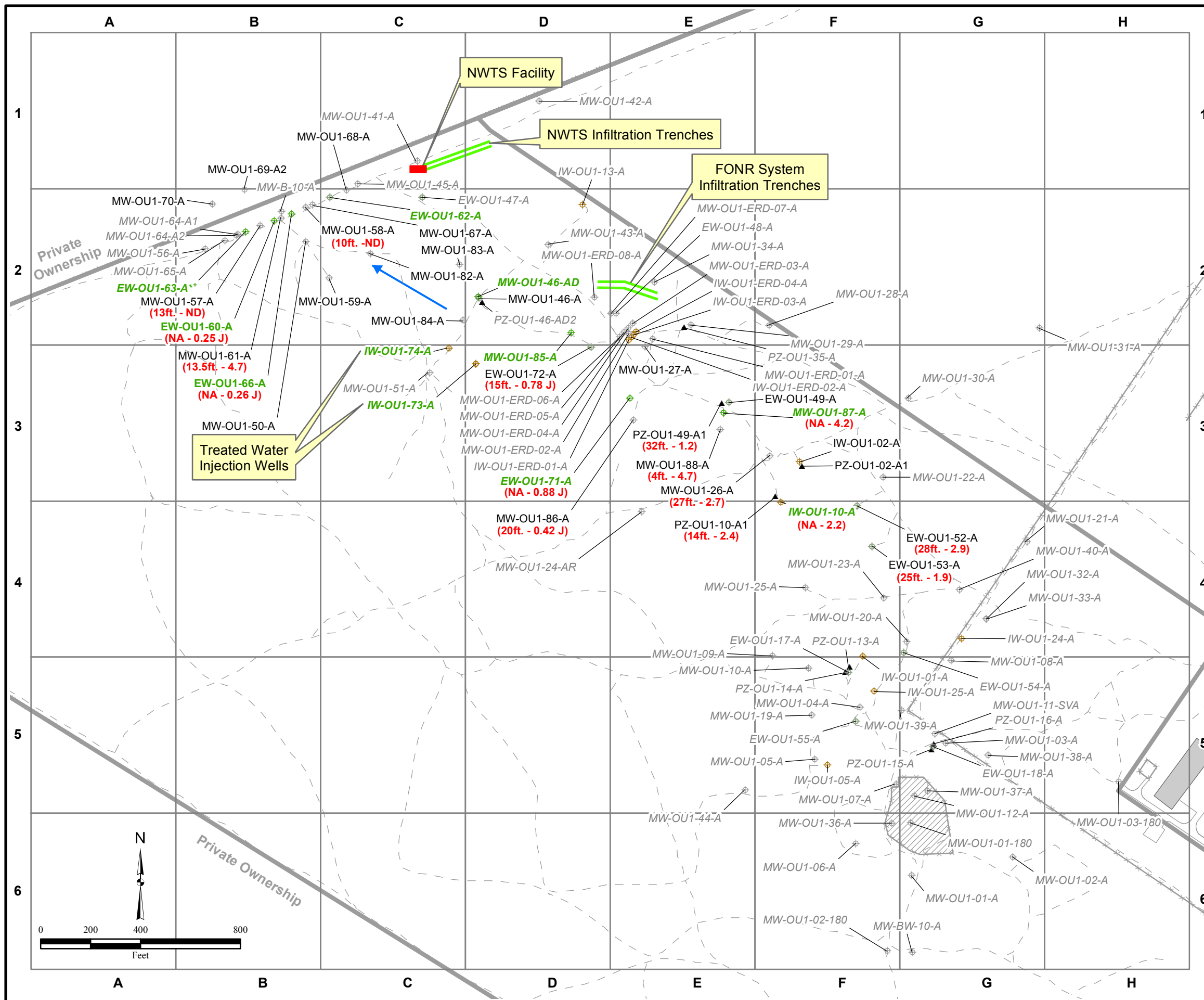
MCL = Maximum Contaminant Level

OU1 = Operable Unit 1

RL = reporting limit

TCE = trichloroethene

Figure 5.2
OU-1 FONR A-Aquifer
TCE Concentration in Groundwater,
September 2014,
Former Fort Ord, CA



Legend

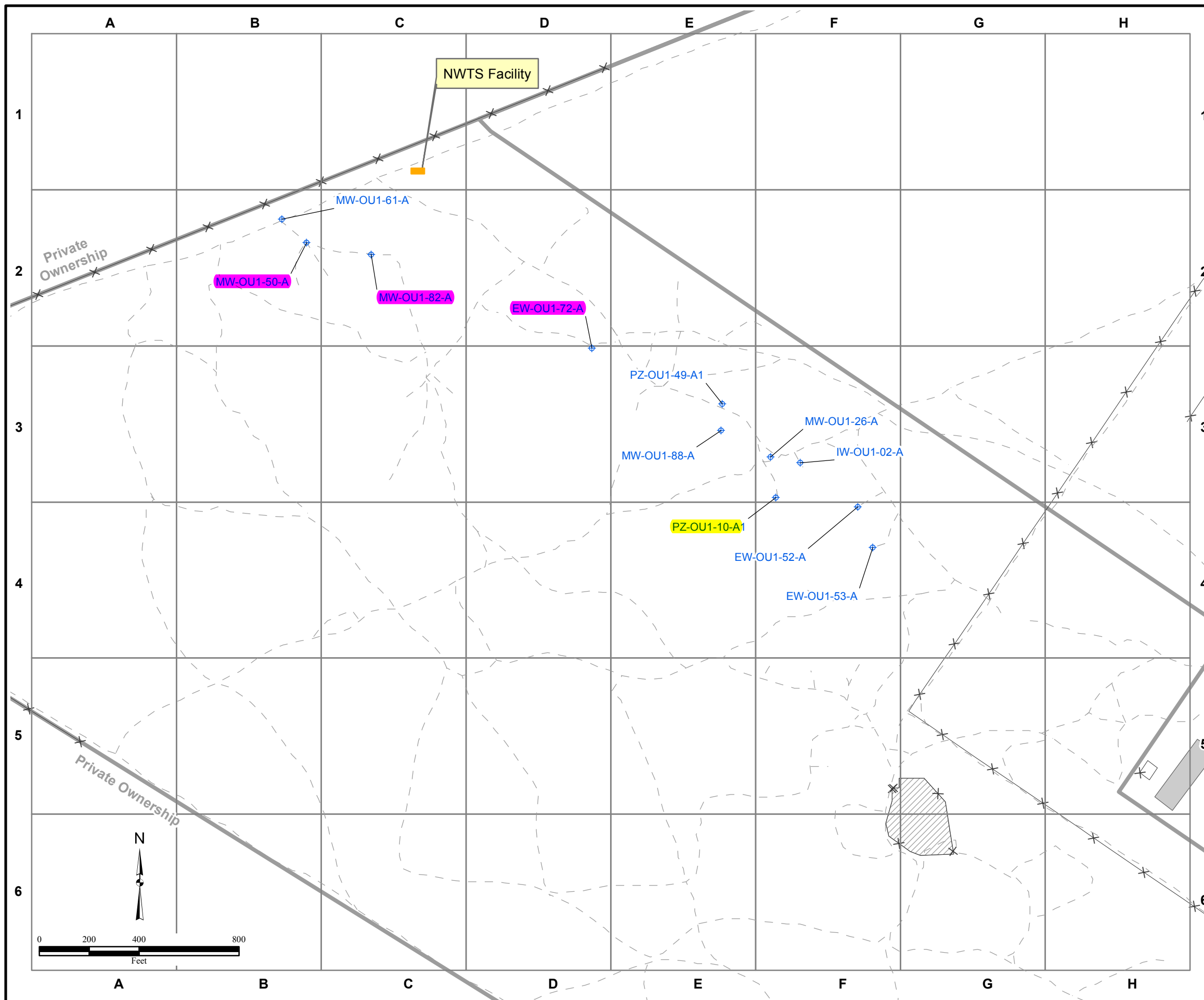
- ⊕ Well
- ⊕ Extraction Well
- ⊕ Injection Well
- ▲ Piezometer or 2-Inch Well
- Groundwater Flow Direction
- MW-OU1-21-A Well Destroyed
- MW-OU1-57-A Well ID
- (13.5ft. - 6.7) September 2014 TCE Result (µg/L)
- (13.5ft. - 6.7) Sample Elevation (ft amsl)
- - - Trail/Unimproved Road
- ×××× Fence
- Treated Water Infiltration Trench
- Property Boundary
- Building
- ▨ Former Fire Drill Area
- NWTS Facility

Notes:
 Wells for which no data are posted were not sampled.
 Well labels in green font indicate extraction or injection well.
Italicized font shows pumping suspended.
 ft amsl= feet above mean sea level
 µg/L=micrograms per liter
 FONR=Fort Ord Natural Reserve
 NWTS=Northwest Treatment System
 ACL=Aquifer Cleanup Level
 ND=nondetect
 NA=Depth is not applicable - sample is from pumping well
 J=Estimated value
 *=Indicates wells not used for contouring
 +=Indicates disconnected extraction well. No longer operable.

\\gst-srv-01\hglgis\Ft_Ord_MSIW\2014_Annual_GW_Monitoring\
 (5-02)TCE_2014-09.mxd
 12/8/2014 SS
 Source: HGL



Figure 5
OU-1 Monitoring Well
Verification Network Location
Former Fort Ord, CA



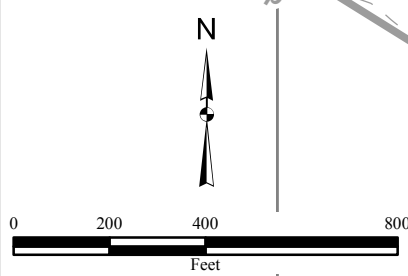
Legend

- Monitoring Well
- Trail/Unimproved Road
- Fence
- Property Boundary
- Building
- Former Fire Drill Area

Pink highlighted text indicates possible replacement well for PZ-OU1-10-A1

Yellow highlighted text indicates the location of PZ-OU1-10-A1

Note:
NWTS = Northwest Treatment System



\\gst-srv-01\HGLGIS\Ft_Ord\MSIW\OU-1 Exit Strategy Technical Memorandum\05\OU-1 Monitoring Well Verification Network Location.mxd
5/22/2015 SS
Source: HGL

