

**Former Fort Ord Operable Unit (OU)-1 – Base Closure Team (BCT) Meeting
Update
Groundwater Remediation, Well Destruction, and Treatment Plant Decommissioning
Marina, California
15 July 2016**

OU-1 On-Post Activities for 10 June through 06 July 2016
Prepared by HydroGeoLogic, Inc., Roy Evans, Project Manager

Attendees: (to be revised after meeting)

Individual	Attended?	Individual	Attended?
James Specht, USACE		Kimberly Gettman, DTSC	
Teresa Rodgers, USACE		Edward Walker, DTSC	
Alex Kan, USACE		Noel Shrum, DTSC	
Bonnie McNeill, USACE		Grant Himebaugh, RWQCB	
Cory Koger, USACE		Jeff Fenton, AMEC	
Jonathan Whipple, USACE		Derek Lieberman, Ahtna	
David Eisen, USACE		Eric Schmidt, Ahtna	
Paul Fluck, USACE		Holly Dillon, Ahtna	
William Collins, BRAC		Brad Clarke, Ahtna	
Tom Ghigliotto, Chenega ¹		Thor Anderson, Burleson	
Melissa Broadston, Chenega ¹		Steve Crane, Kemron	
Bart Kowalski, Chenega ¹		Erin Caruso, Gilbane	
Cary Stiebel, Chenega ¹		Larry Friend, Gilbane	
Judy Huang, EPA		Kevin Siemann, Gilbane	
Maeve Clancy, EPA			
Martin Hausladen, EPA		Roy Evans, HGL	
Min Wu, Ph.D., DTSC		Kevin Wierengo, HGL	
Steve Sterling, DTSC		Gage Dayton, Ph.D., UCSC	
X = attended in person or by telephone; blank indicates absent from the meeting			

Notes:

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

Remediation is complete. The northwest treatment system (NWTs) is offline but operable.

Reporting/Federal Facility Agreement (FFA) Schedule

The status of ongoing and anticipated reports for OU-1 is summarized in Table 1. The draft 2016 Annual Groundwater Monitoring Report is being reviewed by the regulatory agencies and public. A draft OU-1 Closure Plan as requested by DTSC (see following section) is included as Appendix D of the 2016 Annual Groundwater Monitoring Report. Comments are due by 24 July 2016.

OU-1 Closeout

The EPA established a new Preliminary Health Advisory value for perfluorooctanoic acid (PFOA) – it has decreased from 400 nanograms per liter (ng/L) of PFOA to 70 ng/L for the sum of PFOA and perfluorooctane sulfonate (PFOS) concentrations. All OU-1 wells sampled during the attainment monitoring period met the old PHA value. However, two wells do not meet the revised value (Figure 10 from the Remedial Action Completion Report is attached for reference):

- MW-OU1-88-A showed PFOA concentrations between 180 ng/L and 270 ng/L in all four attainment events. PFOS ranged from 33 ng/L to 72 ng/L.
- The initial sample from PZ-OU1-10-A1 showed PFOA at 120 ng/L and PFOS was not detected. This well was not sampled thereafter because the sample collection method leads to a significant amount of suspended sediment in the Hydrasleeve™ sampling device. The sediment is believed to result from damage to the casing and/or well screen.

The Army is reviewing this change and will develop a response as part of the closeout process.

The Army will abandon/destroy the remaining OU-1 wells in phases beginning with the off-Post Armstrong Ranch wells. Those OU-1 wells located within the non-grassland part of the FONR, including MW-OU1-88-A and PZ-OU1-10-A1, will be abandoned in 2017 or later. This schedule will allow time to consider the revised PHA values and address any questions that may arise. The Army anticipates that the Armstrong Ranch wells will be destroyed this year.

OU-1 Rare Plant Monitoring

The OU-1 rare plant field surveys were completed and preparation of the preliminary draft report has begun. Although no piperia were observed during the surveys, it was a very good year for the spineflower and gilia.

New/Current Action Items:

- The well demolition plan will be added to the deliverable schedule after contracting is completed (this work is expected to be awarded in late July or early August).

Ongoing:

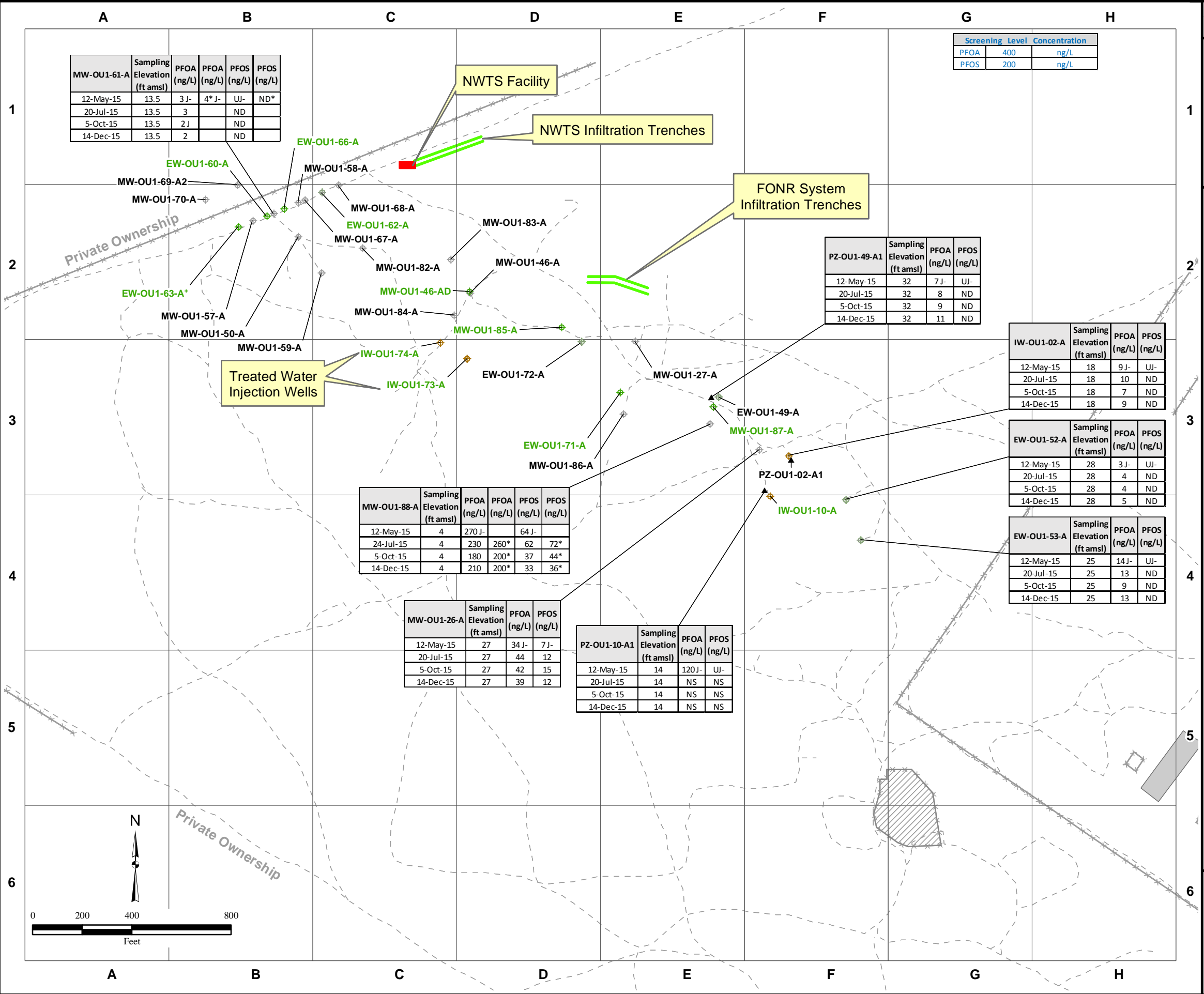
- Submit draft minutes for previous BCT meeting(s)—complete through June 2016.
- Submit final minutes for previous BCT meeting(s)—complete through June 2016.

Table 1
Current OU-1 Deliverable Schedule
Former Fort Ord, Marina, CA –June 2016

Deliverable Title	Submittal	Review Comments Due	Status/Remarks
<i>Primary Deliverables</i>			
Final PFOA/PFOS Sampling Results Technical Memorandum Attainment Monitoring Events 1 - 4	04 March 2016	01 April 2016	Final submitted 16 March 2016
<i>Secondary Deliverables</i>			
2016 OU-1 Groundwater Monitoring Report	22 June 2016	25 July 2016	In agency and public review
<i>Completed Recent Submittals</i>			
Final Exit Strategy Technical Memorandum	March 2015	April 2015	Draft Final approved without comment. Change pages distributed 12 May 2015
Site Safety and Health Plan Update	March 2015	Not Applicable	Army approved revisions
Final UFP-QAPP Revision 1	March 2015	April 2015	Draft Final approved without comment. Change pages distributed 14 May 2015
2015 Semiannual Groundwater Monitoring Report ¹	07 August 2015	10 September 2015	Accepted without comment
Draft 2015 Annual Groundwater Monitoring Report ¹	15 October 2015	16 November 2015	Draft Accepted without comment; final submitted 03 December 2015
Final UFP-QAPP Revision 2	14 October 2015	16 November 2015	
Draft PFOA/PFOS Sampling Results Technical Memorandum Attainment Monitoring Events 1 - 4	29 January 2016	29 February 2016	Comments received and addressed

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.

Figure 10
Attainment Monitoring Summary
PFOA and PFOS Concentrations
in OU-1 A-Aquifer
Former Fort Ord, CA



Legend

- Monitoring Well
- Extraction Well
- Injection Well
- Piezometer or 2-Inch Well
- MW-OU1-70-A Well Identification
- Trail/Unimproved Road
- Fence
- Treated Water Infiltration Trench
- Former Fire Drill Area
- Structure
- NWTs Facility

Notes:

- Well labels in green font indicate extraction or injection well.
- Wells not sampled are not part of Attainment Monitoring Network.
- *=Duplicate Sample
- +Indicates disconnected extraction well. No longer operable.
- ft amsl=feet above mean sea level
- FOnR=Fort Ord Natural Reserve
- J=Sample result estimated value potentially biased low
- J=Sample result estimated value
- ND=Nondetect
- NS=Not Sampled
- ng/L=nanograms per liter
- NWTs=Northwest Treatment System
- PFOA=Perfluorooctanoic Acid
- PFOS=Perfluorooctane Sulfonate
- UJ=Not detected; Sample result biased low

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1/8/2016 TB
Source: HGL

