Former Fort Ord Operable Unit (OU)-1 – Base Closure Team (BCT) Meeting Update Groundwater Remediation, Well Destruction, and Treatment Plant Decommissioning Marina, California 14 September 2016

OU-1 On-Post Activities for 05 August through 08 September 2016

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

Attendees: (to be revised after meeting)						
Individual	Attended?	Individual	Attended?	Notes:		
James Specht, USACE		Kimberly Gettman, DTSC		¹ Chenega staff supporting the BRAC		
Teresa Rodgers, USACE		Edward Walker, DTSC		Ahtna = Ahtna Engineering Services BRAC = Base Realignment and Closure Fort		
Alex Kan, USACE		Noel Shrum, DTSC		Ord Office		
Bonnie McNeill, USACE		Grant Himebaugh, RWQCB		CB&I = Chicago Bridge & Iron, Inc. DTSC = California Department of Toxic		
Cory Koger, USACE		Jeff Fenton, AMEC		Substances Control		
Jonathan Whipple, USACE		Derek Lieberman, Ahtna		EPA = U.S. Environmental Protection Agency		
David Eisen, USACE		Eric Schmidt, Ahtna		HGL = HydroGeoLogic, Inc. RWQCB = Regional Water Quality Control		
Paul Fluck, USACE		Holly Dillon, Ahtna		Board		
William Collins, BRAC		Brad Clarke, Ahtna		UCSC = University of California, Santa Cruz USACE = U.S. Army Corps of Engineers		
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				
Brad Jackson, USACE		Charity Meakes, USACE				
X = attended in person or by tele	ephone; blank	indicates absent from the meeting				

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. There were only a few comments received on the draft 2016 Annual Groundwater Monitoring Report. These comments were resolved and the report was finalized without going to a draft final version. The final report was sent on 26 August 2016.

OU-1 Closeout

The Army submitted a Technical Memorandum to the regulatory agencies on 25 August in response to the recently published Health Advisory (HA) values for perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS) concentrations. As noted in previous meetings, two wells do not meet the revised value of 70 nanograms per liter for the sum of PFOA and PFOS concentrations. Figure 10 from the Remedial Action Completion Report is attached for reference. The Technical Memorandum provides rationale to support the Army's recommendation that OU-1 proceed to closeout. Comments are requested by 25 September 2016.

RWQCB informed the Army before the Technical Memorandum was submitted that they support proceeding to closure for OU-1 without further monitoring or remediation of OU-1 groundwater.

The Army will abandon/destroy the remaining OU-1 wells in phases beginning with the off-Post Armstrong Ranch wells. The Draft Work Plan describing the Armstrong Ranch effort will be distributed for review this month—the target date is 26 September. If possible (based on receipt of review comments and driller availability), the Army will begin work in October. Army anticipates that the Armstrong Ranch wells and pipeline removal can be completed within approximately 3 weeks.

OU-1 Rare Plant Monitoring

The draft report for the 2016 OU-1 Rare Plant Survey and Impact Assessment was submitted in August. HGL is responding to comments just received on the 2015 OU-1 Rare Plant Survey and Impact Assessment.

Five-Year Review

HGL staff are assisting the Army in preparing the 5-Year Review report.

New/Current Action Items:

• The demolition plan for the Armstrong Ranch wells and pipeline has been added to the deliverable schedule.

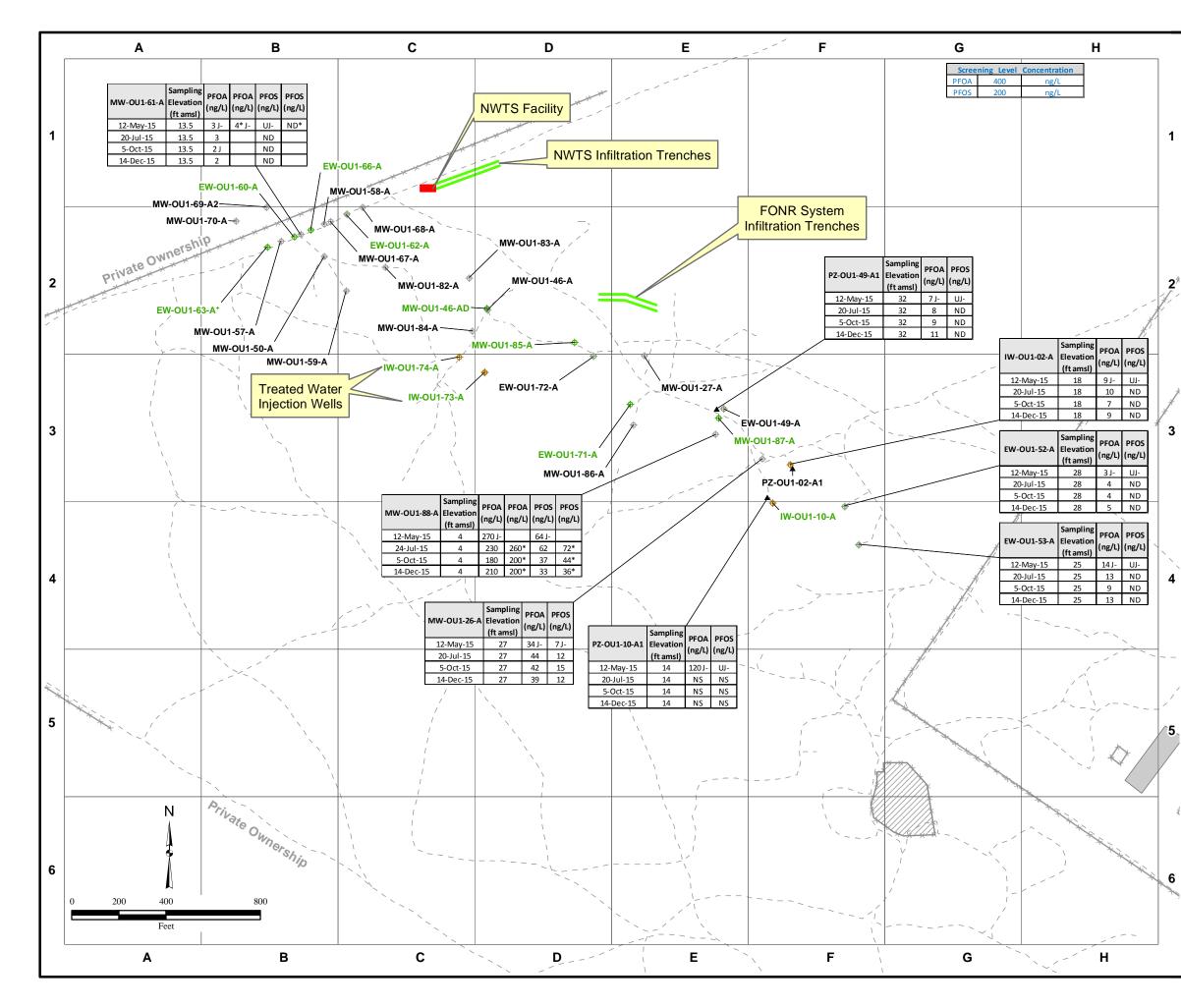
Ongoing:

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

Table 1Current OU-1 Deliverable ScheduleFormer Fort Ord, Marina, CA –September 2016

Deliverable Title	Submittal	Review Comments Due	Status/Remarks			
Primary Deliverables						
Final PFOA/PFOS Sampling Results Technical Memorandum Attainment Monitoring Events 1 - 4	04 March 2016	01 April 2016	Final submitted 16 March 2016			
Technical Memorandum						
Attainment Monitoring Evaluation and Summary for EPA Designated Emerging Contaminants	25 August 2016	25 September 2016	In Agency review			
Secondary Deliverables						
Final 2016 OU-1 Groundwater Monitoring Report	26 August 2016	None	Comments received, addressed, and Final submitted			
Completed Recent Submittals						
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.



HGL—OU-1 Attainment Monitoring Events 1 Through 4 Results Summary Technical Memorandum–Former Fort Ord, CA

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

Legend Monitoring Well Extraction Well ф 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 \\gst-srv-01\HGLGIS\Ft_Ord_MSIW\OU-1_AME_1-4_RS_TM\ (10)PFOA_PFOS_Concens_Mon_Summary_Prelim.mxd 1/&/2016_TB Source: HGL

