Final Base Closure Team Meeting Minutes (Prepared by HydroGeoLogic, Inc.) Fort Ord Operable Unit (OU) – 1 On-Post Groundwater Remediation Marina, California 1:30 p.m., 7 August 2013

1. Groundwater Remediation System Update

The Northwest Treatment System (NWTS) operated continuously from 18 July 2013 through 6 August 2013. Extraction wells EW-OU1-60-A, EW-OU1-66-A, and MW-OU1-87-A operated continuously during this period with total pumping averaging 20.8 gallons per minute. Since system startup in 2006, the NWTS has pumped approximately 199 million gallons of groundwater and removed approximately 6.0 pounds (0.49 gallon) of total volatile organic compounds, primarily trichloroethene (TCE). An estimated 0.04 pound of TCE has been removed since the NWTS 27 March 2013 sampling event.

On 26 June 2013 HydroGeoLogic, Inc. (HGL) collected samples from the following extraction well and two monitoring wells:

MW-OU1-87-A MW-OU1-61-A MW-OU1-88-A

2. Long Term Monitoring Update

Unvalidated sampling results from the June 2013 sampling event are presented in attached Tables 1A and 1B for extraction well MW-OU1-87-A. Figure 2 shows the TCE concentration contours based on the unvalidated June 2013 data. The attached TCE concentration figure will be updated after the validated results from the 26 June 2013 sampling are received and reviewed.

As shown on the attached Figure 1, groundwater concentrations in the June 2013 samples exceeded the TCE Aquifer Cleanup Level (ACL) only in monitoring wells MW-OU1-61-A and MW-OU1-88-A (well identification highlighted in yellow). The latter well remains slightly above the ACL, decreasing from 6.8 micrograms per liter (μ g/L) in March 2013 to 5.6 μ g/L in the June 2013 results. MW-OU1-61-A, the only well exceeding the ACL on the northwest boundary, decreased from 13 μ g/L in March 2013 to 7.4 μ g/L in the June 2013 results. The observed TCE concentration trend in wells MW-OU1-61-A and MW-OU1-88-A is shown on Figures 1a and 1b.

The TCE concentration in well MW-OU1-87-A, the only extraction well that exceeded the ACL in recent sampling results, dropped below the ACL in March 2013 for the first time since sampling began in 2006. The TCE concentration at this well in the June 2013 results further decreased to 4.4 μ g/L (see Table 1A).

The first quarter 2013 groundwater analytical results showed significant improvements in OU-1 groundwater quality. Consequently, the regulatory agencies (U.S. Environmental Protection Agency [EPA], California Department of Toxic Substances Control [DTSC], and Central Coast California Regional Water Quality Control Board [RWQCB]) agreed during the March 2013 Base Closure Team (BCT) meeting that the network of wells to be included in the September 2013 sampling event be determined after reviewing the June analytical results. Based on the continued decrease seen in TCE concentrations and the fact that these concentrations are approaching the ACL, HGL recommended that the September sampling schedule be modified as shown in Table 3 and on Figure 2. The recommended September sampling includes the extraction wells along the northwest boundary and extraction wells MW-OU1-87-A and EW-OU1-71-A in the central Fort Ord Natural Reserve (FONR). Selected

monitoring wells in the central FONR, MW-OU1-61-A on the northwest boundary, and the off-post wells are also recommended for sampling in September. The proposed sampling modifications will provide additional data to confirm that the OU-1 groundwater ACLs have been met in the event that the September sampling results show that TCE decreases below 5 μ g/L in wells MW-OU1-61-A and MW-OU1-88-A. The EPA, DTSC, and RWQCB tentatively agreed with the recommended sampling program but reserved approval pending further consideration. The agencies agreed to provide comments or approval by 21 August 2013.

3. <u>Report Submittals</u>

All scheduled submittals have been made for primary and secondary deliverables. The status of submitted and anticipated reports for 2012 and 2013 is summarized in Table 2. The groundwater sampling report for the 2013 first quarter monitoring report was distributed 1 July 2013. HGL is also updating the treatment system Operations and Maintenance Manual to describe changes made to system operation and equipment since 2010. The revised manual will be submitted to the Army in mid-August.

4. Discussion Agenda

(A) Weed Control

HGL renewed the agreement with the University of California Santa Cruz (UCSC) to perform weed control in selected portions of the FONR in 2013. The number of sites to be addressed is based on the results of previous monitoring and the habitat types observed during the Army/UCSC field inspection on 28 March 2013. Weed control activities began in April and are continuing.

(B) Rare Plant Survey

The 2013 rare plant survey was conducted from 12 April through 16 April 2013. HGL reported that preparation of the annual habitat impact report has started.

(C) Community Involvement Workshop

The Army reported that the postponed Community Involvement Workshop from July has been rescheduled for 21 September 2013. HGL will provide posters showing the status of the OU-1 groundwater cleanup. The September BCT meeting will be held on 20 September 2013 at 10:00 a.m. Pacific Standard Time.

(B) Cleanup Verification Sampling

The observed trend in the TCE concentration in the OU-1 groundwater shows that the ACLs might be achieved soon. HGL, EPA, DTSC, and RWQCB discussed the scope of the verification sampling that will subsequently be required to confirm that the OU-1 groundwater remediation is complete. The agencies agreed that the following will occur:

- Verification sampling will be conducted quarterly for 1 year. If the ACLs are maintained during verification period, then the OU-1 groundwater remediation will be complete.
- Verification sampling will be focused on the wells located on the main axis of plume migration.
- The specific wells to be included in the verification sampling effort will be determined after a review of the latest sampling results.

Action Items:

Ongoing:

- Submit draft minutes for previous BCT meeting(s) draft June and July meeting minutes were submitted on 1 July and 31 July 2013, respectively. To date, EPA and RWQCB stated that the draft minutes are approved as submitted.
- Submit final minutes for previous BCT meeting(s) (through May 2013) DTSC approved the draft minutes at this meeting.
- Submit draft minutes for current BCT meeting.

Fort Ord HTW BCT Meeting Marina, California 07 August 2013

ATTACHMENT 1

Reference Tables and Figures

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			TCE in			vater Remedia for Former Fo		•				nce Monito	ori	ng			
	FON	NR Extraction Well (listed from south to north)				Boundary	y E	Extraction	W	ell (from	W	est to east)					
Began:	Nov-10		Oc	et-07				Jı	ul-	-06				NWTS			
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	.5 .	16	13	19	14	ND		ND		1.7		ND		11	ND		ND
1/18/08	installed in November	11	11	8.9	8.2	ND		ND		1.2		ND		6.0	ND		ND
3/18/08	ven	11	14	6.7	5.8	ND		0.29		1.5		ND		5.6	ND		ND
5/27/08	No	9.7	18	2.5	6.1	ND		ND		1.8		ND		3.9	ND		ND
7/21/08	03	9.1	14	4.4	3.4	ND		0.78		1.4		ND		3.6	ND		ND
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ND - nondete																	
TCE - trichlo																	
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NWTS - Nort	thwest Treatmen	nt System															

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ACL - aquifer cleanup level Not sampled and		Italics (if used) indicate data not yet validated							Bold font indicates concentration > ACL					
ig/L - micrograms per liter Image: Constraint of the con	Notes:													
- Data qualified as estimated Blue font indicates the concentration is calculated using the weighted average of the active pumping wells. ND - nondetect Image: Concentration is calculated using the weighted average of the active pumping wells. DCE - dichloroethene Image: Concentration is calculated using the weighted average of the active pumping wells. GONR - Fort Ord Natural Reserve Image: Concentration is calculated using the weighted average of the active pumping wells.	ACL - aquife	er cleanup level				- Not samp	led							
ND - nondetect Image: Constraint of the serve CCE - dichloroethene Image: Constraint of the serve	μg/L - micrograms per liter													
DCE - dichloroethene Image: Constraint of the constrai	J - Data quali	-			dicates the conc	entration is calcul	lated using th	e weighted	average of the acti	ive pumping	wells.			
Fort Ord Natural Reserve	ND - nondetect													
	DCE - dichlo	oroethene												
	FONR - Fort	ONR - Fort Ord Natural Reserve												
NWTS - Northwest Treatment System	NWTS - Nor	thwest Treatme	nt System											

Table 2Current Deliverable ScheduleBCT Meeting for Former Fort Ord, Marina, California – 07 August 2013

Deliverable Title	Submittal	Review	Status/Remarks				
Deliverable Title	Due	Comments Due	Status/ Kemarks				
Primary Deliverables							
Draft 2013 Annual and 3 rd Quarter			Samples to be collected in				
Groundwater Monitoring Report			September				
Secondary Deliverables							
None scheduled							
	Completed Rece	nt Submittals					
Final Memorandum for Record for Optimizing Remediation Pumping	March 2012	February 2012	Accepted as final during July 2012 BCT meeting.				
Final IW-OU1-10-A Construction Report	March 2012	NA	Submitted 30 March 2012.				
Final Operable Unit 1 Well Destruction Report	March 2012	NA	Submitted 30 March 2012.				
Draft Five Year Review Report	March 2012	May 2012	Army submitted 30 March 2012.				
Draft 2011 Annual and Third Quarter Groundwater Monitoring Report	May 2012	July 2012	Submitted 17 May 2012.				
2012 First Quarter Groundwater Monitoring Report	May 2012	August 2012	Submitted 29 May 2012.				
Draft 2007 Annual & Fourth Quarter Groundwater Monitoring Report	June 2012	August 2012	Submitted 13 June 2012.				
Draft Final Five Year Review Report	July 2012	September 2012	Submitted to Army 26 June 2012.				
Final 2011 Annual and Third Quarter Groundwater Monitoring Report	July 2012	NA	Submitted 25 July 2012. No agency comments.				
IW-OU1-74-A Vandalism Report	July 2012	NA	Submitted 25 July 2012.				
Final 2007 Annual and 4 th Quarter Groundwater Monitoring Report	September 2012	NA	Submitted 26 September 2012. No comments.				
Final Five Year Review Report	September 2012	NA	Text for final version sent to Army on 08 August 2012				
Draft 2012 Annual and 3 rd Quarter Groundwater Monitoring Report	December 2012	March 2013	Submitted 31 December 2012.				
Final 2012 Annual and 3 rd Quarter Groundwater Monitoring Report	March 2013	NA	Submitted 21 March 2013.				
2013 First Quarter Groundwater Monitoring Report	June 2013	August 2013	Submitted 1 July 2013				

Sample Point	Location	Original March	Revised March	Revised June*	Current September	Recommended September
NWTS-Influent	Treatment Plant	X			TBD	
NWTS-Midpoint	Treatment Plant	Х			TBD	
NWTS-Effluent	Treatment Plant	Х	Х		X	X
EW-OU1-60-A***	NW/ Downdom				TBD	
EW-OU1-60-A*** EW-OU1-66-A***	NW Boundary	X	X		TBD	X
MW-OU1-87-A***	NW Boundary Central FONR	X	X X	 X	TBD X	X X
EW-OU1-71-A***	Central FONR			л 	TBD	X
MW-OU1-70-A	NW Boundary	X	X		X	X
MW-OU1-69-A2	NW Boundary	Х	Х		Х	Х
MW-OU1-58-A	NW Boundary	Х	x**		TBD	
MW-OU1-57-A	NW Boundary	Х	x**		TBD	
MW-OU1-61-A	NW Boundary	Х	X	Х	X	х
EW-OU1-72-A	Central FONR	X			TBD	X
MW-OU1-86-A	Central FONR	х			TBD	Replace with MW-OU1-50-A
PZ-OU1-49-A1	Central FONR	Х			TBD	X
MW-OU1-88-A	Central FONR	X	Х	Х	Х	X
MW-OU1-26-A	Central FONR				Х	Х
PZ-OU1-10-A1	Central FONR				TBD	Х
EW-OU1-52-A	Central FONR				TBD	Х

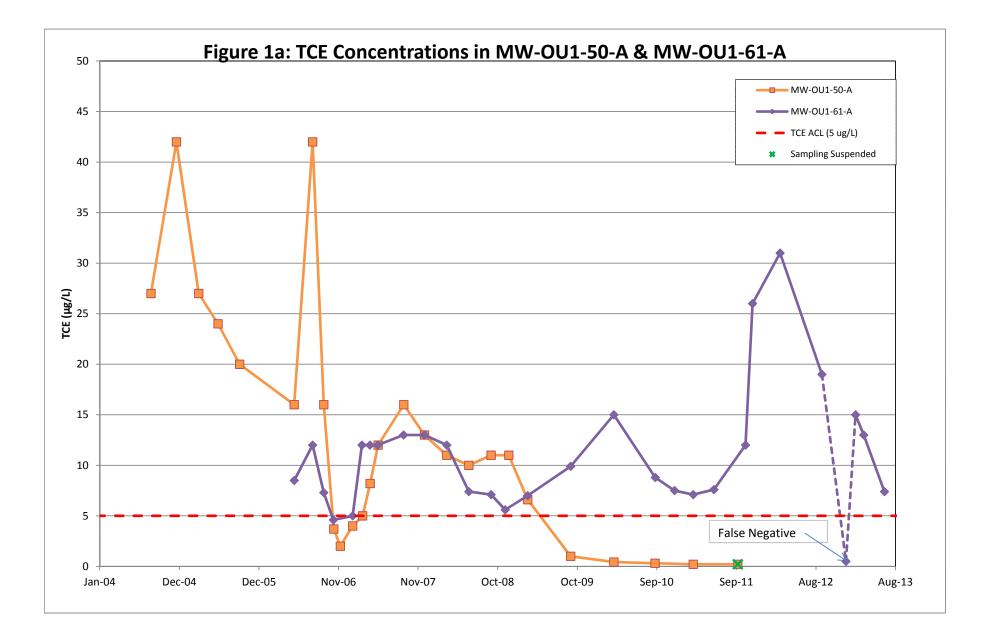
Table 3Proposed OU-1 Sampling Schedule for 2013

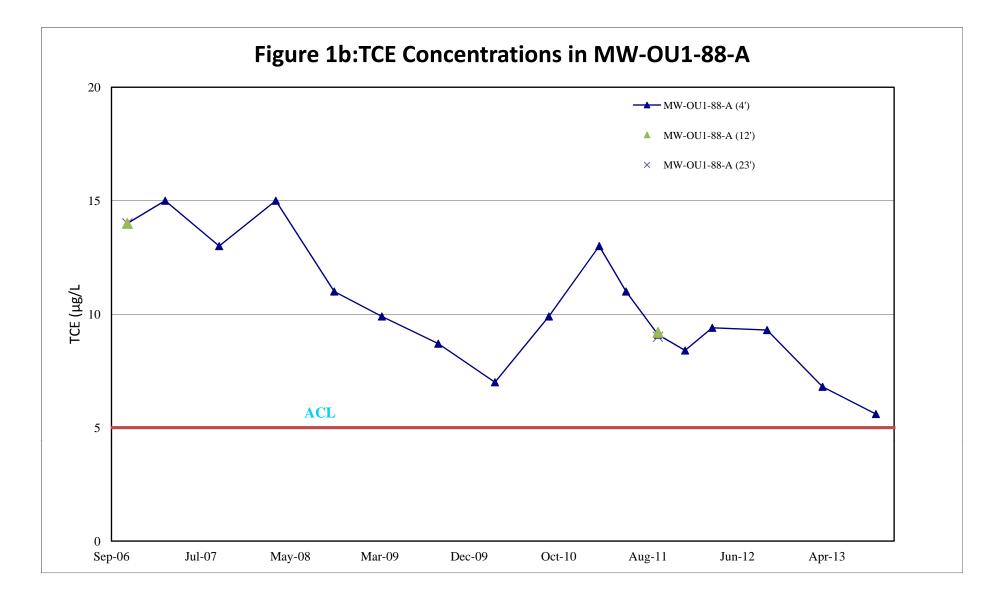
* No sampling was originally scheduled for June 2013. This is an additional event.

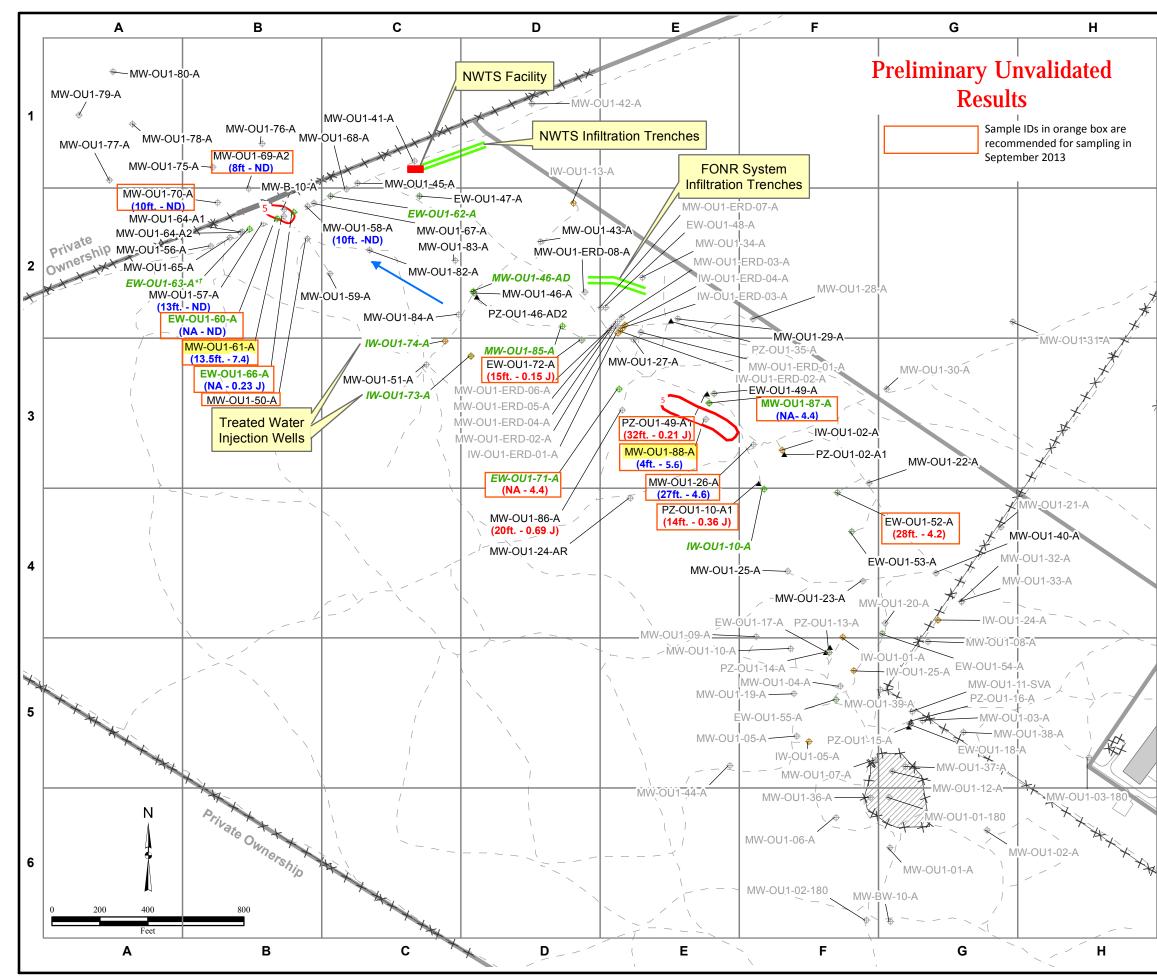
** As agreed at January 2013 Base Closure Team Meeting, these samples were collected in January.

***Extraction well sample is collected from port on transmission pipe.

- --- Not sampled
- x Sample collected
- TBD To be determined
- FONR Fort Ord Natural Reserve
- NW Northwest







1		Figure 2 OU-1 FONR A-Aquifer oncentration in Groundwater June 2013 Former Fort Ord, CA
		Legend
	Ф	Well
2 Ż	\$	Extraction Well
- 2 - ≁	\$	Injection Well
	▲	Piezometer or 2-Inch Well
		Groundwater Flow Direction
		Well Destroyed
	MW-OU1-88-A	Location with June 2013 TCE Concentrations at or above ACL (5 µg/L)
\downarrow	MW-OU1-57-A	
3		September 2012 TCE Result (µg/L)
-		Sample Elevation
		(feet above mean sea level)
		2013 TCE Result (μg/L) - Sample Elevation
		(feet above mean sea level)
	r	TCE contour based on
$\langle \rangle$		March 2013 Data
4		Trail/Unimproved Road
	X	Fence
		Treated Water Infiltration Trench
		Property Boundary
		Building
/		Former Fire Drill Area
/		ncentration are in micrograms per liter.
⁄5	NWTS = Northy	rd Natural Reserve vest Treatment System
	ACL = Aquifer ND = nondetect	*
,	NA = Depth is n μg/L = microgra	ot applicable - sample is from pumping well ms per liter
r)		th an asterisk were not used to develop contour boundaries. no data are posted were not sampled.
1 A	J = Estimated va Green font indic	lue cates extraction or injection well.
	<i>Italicized</i> font sh [†] = Disconnected	ows pumping suspended. d extraction well. No longer operable.
. 6		Ft_Ord_MSIW\GWMR_Quarterly_2013-Q1\
K	6/3/2013 CNL Source: HGL	пла
	Www	
		HGL HydroGeoLogic, Inc