

HTW BCT Meeting

August 2, 2007 at 1:00 p.m.

Item	Action	Comment
OU1 Groundwater Remediation	Status Update	HGL
OU1 Groundwater Characterization	Status Update	Shaw
OU2 and 2/12 Treatment Systems	Status Update	
Groundwater Treatment System Optimization	Status Update	
Basewide Range Assessment	Status Update	
Site 39 Eco Risk Work	Status Update	
Site 39 Feasibility Study Addendum	Status Update	
Site 3 Post Remediation Monitoring	Status Update	
OUCTP RI/FS ROD and Pilot Study	Status Update	
Other Groundwater Issues	Update	-Marina Heights/University Villages
OU2 Landfill Gas	Status Update	
FFA Schedule	Status Update	
Five Year Review report	Status Update	
FOST/FOSL/FOSET Issues	Status Update	
Calendar Update	Update	

SUBJECT: HTW – BCT Meeting

August 2, 2007

1:00 p.m.


Check (✓)	Name	Organization	Phone	E-mail address
RR	Roman Racca	DTSC	916/255-6407	Rracca@dtsc.ca.gov
	Kate Burger	DTSC	916/255-6537	kburger@dtsc.ca.gov
	Stewart Black	DTSC	916/255-3665	sblack@dtsc.ca.gov
	John Chesnutt	U.S. EPA	415/972-3005	Chesnutt.john@epa.gov
HA	Martin Hausladen	U.S. EPA	415/972-3007	Hausladen.martin@epamail.epa.gov
DGA	Grant Himebaugh	RWQCB	805/542-4636	Ghimebaugh@waterboards.ca.gov
BM	Bill Mabey	TechLaw Inc	415/281-8730	bmabey@techlawinc.com
GY	Gail Youngblood	Fort Ord BRAC	831/242-7918	gail.youngblood@monterey.army.mil
DJL	Derek Lieberman	AHTNA	831/242-4873	Derek.S.Lieberman@us.army.mil
WKC	Bill Collins	Fort Ord BRAC	831/242-7920	William.collins@monterey.army.mil
RR	Rob Robinson	Fort Ord BRAC	831/242-7900	rob.robinson@monterey.army.mil
✓	George Siller	COE	916/557-7418	George.L.Siller@usace.army.mil

SUBJECT: HTW – BCT Meeting

August 2, 2007

1:00 p.m.

Check (✓)	Name	Organization	Phone	E-mail address
	David Eisen	COE	831/393-9692	David.Eisen@usace.army.mil
	Guy Romine	AED	971/645-3645	Guy.romine1@us.army.mil
	Peter Kelsall	Shaw E & I	831/883-5810 ext. 810	Peter.Kelsall@shawgrp.com
	Eric Schmidt	Shaw E & I	831/883-5809	Eric.Schmidt@shawgrp.com
	Ed Ticken	MACTEC E&C	415/884-3176	ejticken@mactec.com
	Carlene Merey	MACTEC E&C	415/884-3276	cmerey@mactec.com
	Marc Edwards	COE	831/884-9925 ext 244	Marc.A.Edwards@usace.army.mil
	Michael Taraszki	MACTEC E&C	415/884-3325	mdtaraski@mactec.com
	Chuck Holman	Ahtna	916/372-2000	cholman@ahtnagov.com
	Kelly O'Meara	Ahtna	916/372-2000	komeara@ahtnagov.com
	Mike Bombard	HydroGeoLogic	916/614-8770	mbombard@hgl.com
	Don Jones	HydroGeoLogic	916/614-8770	djones@hgl.com
	Roy Evans	HydroGeoLogic	303-984-1167 x5	revans@hgl.com

 (blank) David Kelly Shaw

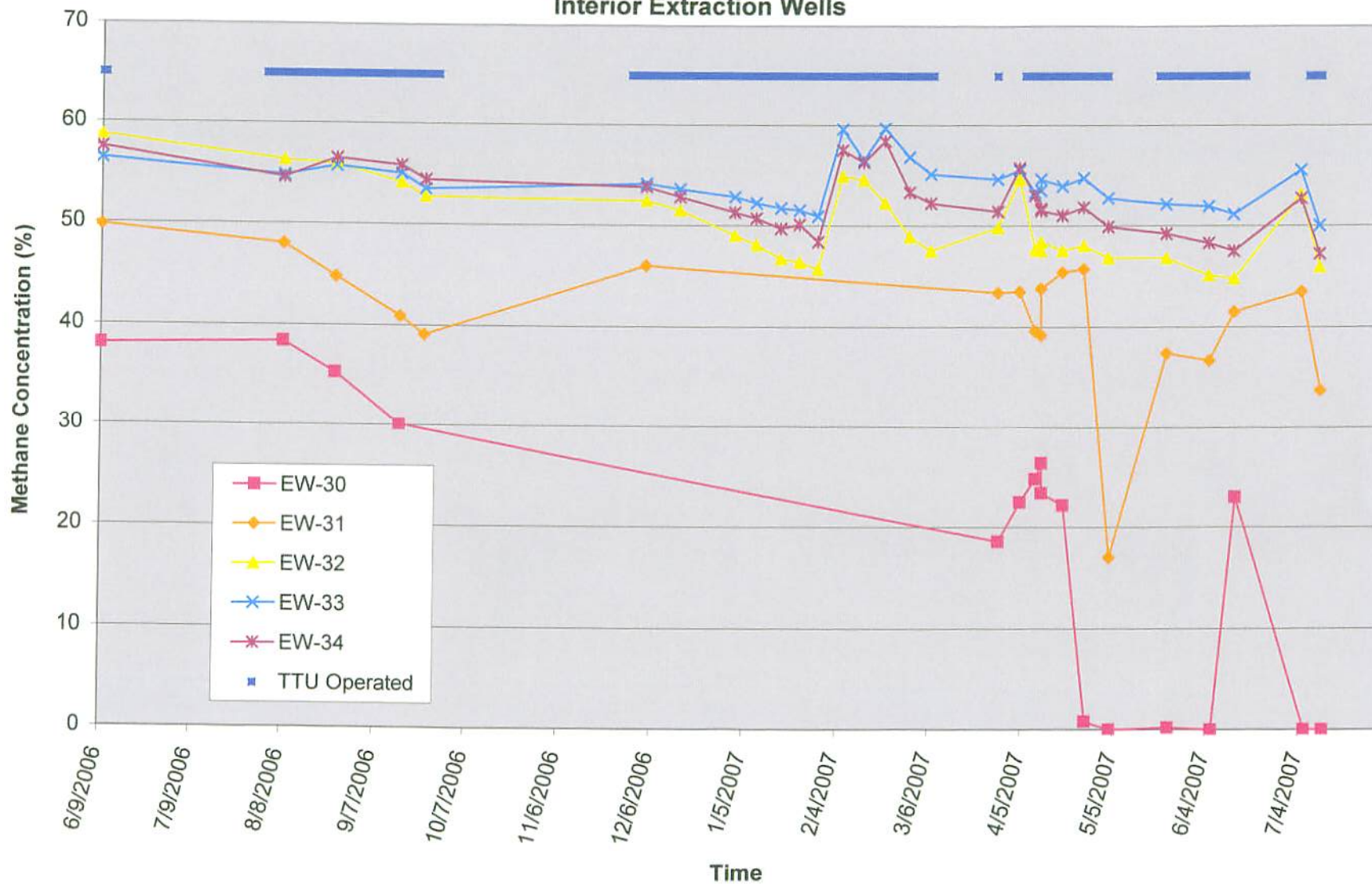
**Thermal Treatment Unit
Operation Summary
2007**

Date TTU Started	Date TTU Shutdown	Hours Operated
1/1/07 0:00	3/8/07 12:00	1561
3/29/07 8:30	3/29/07 12:30	4
4/7/07 7:30	5/4/07 16:00	656.5
5/21/07 8:00	6/18/07 8:00	672
7/9/07 14:00	7/13/07 15:00	97

Start Date/Time:	1/1/2007 0:00
Last Reading Date/Time:	7/13/2007 15:00
Total Hours (2007):	4647
Total Hours Operated (2007):	2990.5
% Operation:	64%

Pounds Methane Removed (2007)	280645
-------------------------------	--------

Methane Concentration vs. Time
Interior Extraction Wells





Technical Memorandum

To: David Eisen, U.S. Army Corps of Engineers
From: Derek S. Lieberman, Fort Ord Project Manager
CC: Jen Moser, Shaw E&I
Date: 8/2/2007
Re: Sites 2 and 12 Operations and Maintenance Manual and Sampling and Analysis Plan interim modifications for air stripper evaluation.

This technical memorandum describes interim modifications to the Sites 2 and 12 Operations and Maintenance Manual (Sites 2/12 O&M Manual; Ahtna Government Services Corporation [AGSC], 2007) and the Sites 2 and 12 Sampling and Analysis Plan (Sites 2/12 SAP; AGSC, 2007). These modifications will allow for assessment of the treatment capabilities of the recently installed air stripper at the Sites 2/12 Groundwater Treatment Plant (GWTP).

Before the air stripper was installed, the effluent from the lag GAC vessel was not sampled because this was essentially the same as the water obtained from sampling location TS-212-EFF. Now that the air stripper has been installed between sampling locations TS-212-GAC-B (current lag GAC vessel effluent) and TS-212-EFF, these two streams are of different character. Water samples from TS-212-EFF have been treated through the air stripper, while samples from TS-212-GAC-B have not. Because optimization should include an evaluation of air stripper effectiveness at removing target contaminants from the liquid phase, sampling at TS-212-GAC-B is now appropriate in order to determine mass loading of target contaminants into the air stripper.

Currently, Section 5.2.1 of the Sites 2/12 O&M Manual states:

A GAC changeout will be scheduled when the concentration of any of the COCs [Chemicals of Concern] from the lead vessel's effluent approaches the aquifer cleanup level... Spent GAC in the lead bed will be replaced with virgin or regenerated carbon, and the bed sequence will be switched. The former lag bed will become the lead bed, and the bed with the fresh, activated carbon will become the lag bed.

Accordingly, Section 4.2.1 and Appendix A of the SAP specify sampling the effluent of the lead GAC vessel to determine when a GAC changeout should occur. Currently, higher levels of target contaminants are temporarily being allowed to break through the lead GAC vessel (presently GAC-A) at near the aquifer cleanup level (ACL). Normally, this would dictate a GAC changeout of the lead

AHTNA

Government Services Corporation

GAC vessel; however, the changeout will be postponed pending assessment of the air stripper. To perform this assessment, which will allow for appropriate long-term modifications to the O&M Manual and the SAP, this technical memorandum makes the following interim modifications to the O&M Manual and the SAP:

- Sampling locations at the Site 2/12 GWTP have not changed. Location TS-212-EFF remains downstream of the GWTP, which now includes the air stripper. The sample location for the lag GAC vessel effluent (currently TS-212-GAC-B) now represents both post-GAC treatment and pre-air stripper treatment (air stripper influent); therefore, samples will be collected from the effluent of the lag GAC vessel (currently TS-212-GAC-B).
- The sampling frequency at the effluent of the lead GAC vessel (currently TS-212-GAC-A) will be reduced until the end of the performance optimization period or until the lead GAC bed is changed.
- A GAC changeout will be scheduled when the concentration of any of the Sites 2/12 COCs detected at the Sites 2/12 GWTP effluent (TS-212-EFF) approaches the ACL, as provided in Table 1 of the O&M Manual and Table 1 of the SAP.
- During the air stripper evaluation period, sampling frequency at each of the Sites 2/12 GWTP sample locations will be as follows:
 - TS-212-INF – once every four weeks (unchanged from original sampling schedule)
 - TS-212-GAC-A (lead GAC vessel effluent) – not sampled
 - TS-212-GAC-B (lag GAC vessel effluent) – once every one week
 - TS-212-EFF – once every one week (changed from bi-weekly to weekly)
 - TS-212-INJ (discharge compliance point) – once every one week (unchanged from original sampling schedule)

This change in procedure will allow for COC concentration data to be collected from the influent to the air stripper and the effluent of the air stripper, which will allow for an assessment of the air stripper's capabilities in removing COCs. With this information, operation of the GWTP may be further optimized to maximize flow, mass removal, and extend the life span of the GAC.

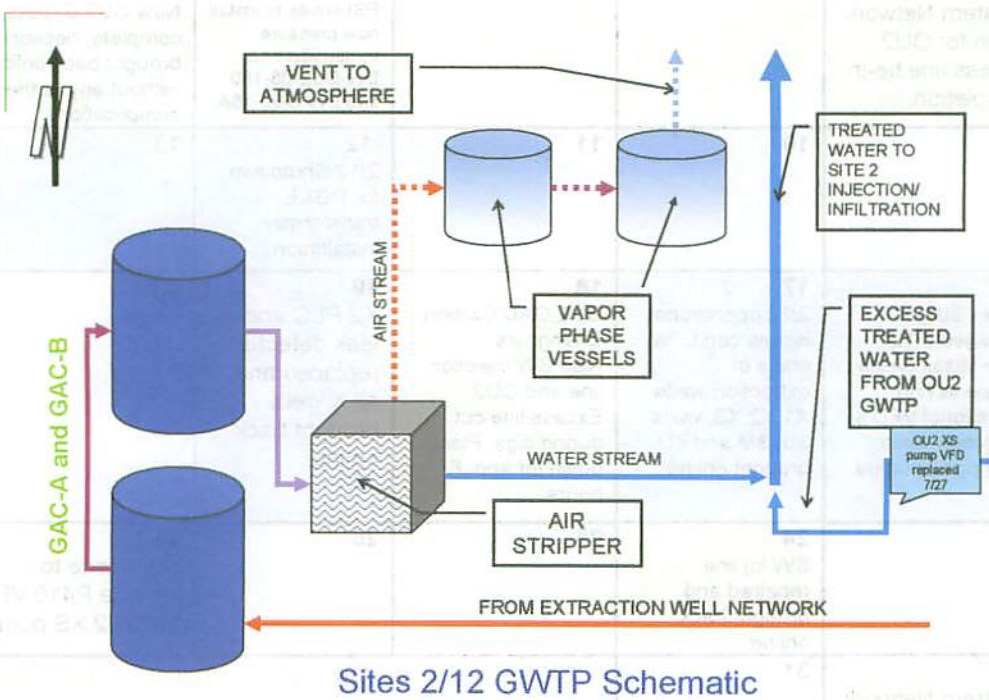
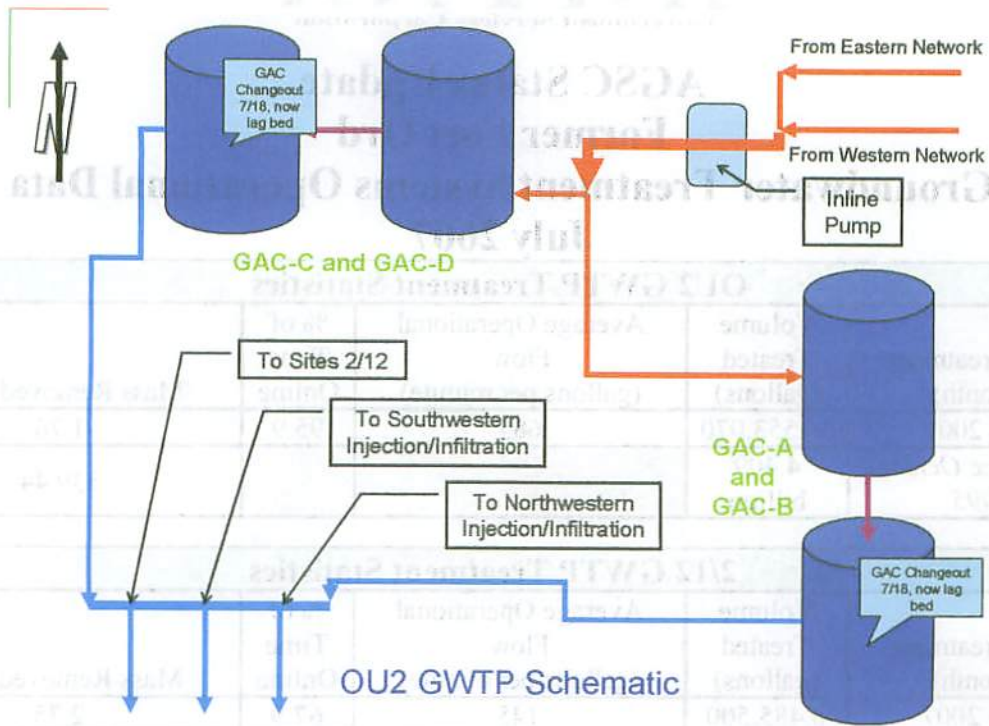
Should you have any questions or concerns regarding this interim change in operational and sampling procedures at the Sites 2/12 GWTP, please contact me at (831) 224-3327 or dlieberman@ahtnagov.com.

AGSC Status Update Former Fort Ord Groundwater Treatment Systems Operational Data July 2007

OU2 GWTP Treatment Statistics				
OU2 Treatment (Month)	Volume Treated (gallons)	Average Operational Flow (gallons per minute)	% of Time Online	Mass Removed (lbs)
July 2007	30,553,070	685	95.9	1.76
<i>Total since October 1995</i>	4.409 billion			539.44

2/12 GWTP Treatment Statistics				
2/12 Treatment (Month)	Volume Treated (gallons)	Average Operational Flow (gallons per minute)	% of Time Online	Mass Removed (lbs)
July 2007	6,485,500	145	67.9	2.75
<i>Total since May 1999</i>	1.052 billion			377.51

Key Events for OU2 and Sites 2/12 for July 2007						
S	M	T	W	T	F	S
1	2 Western Network down for OU2 Excess line tie-in completion.	3	4	5 PSI onsite to install new pressure transmitters on EW-OU2-05-180 and EW-OU2-16A.	6 New OU2 Excess line complete, network brought back online without any further complications.	7
8	9	10	11	12 2/12 Shutdown for PG&E transformer installation.	13	14
15	16 Power Surge damaged 2/12. Gary Mizell onsite to assess non operational VFD's, extraction wells, airstripper, pumps, etc.	17 2/12 operational issues con't. In place of extraction wells X1, X2, X3, wells 3U, 3M and 4U brought online.	18 OU2 GAC Carbon Changouts. Also SW Injection line and OU2 Excess line cut during digs. Plant down for app. 6 hours.	19 X2 PLC and leak detector replaced and all X wells brought back online.	20	21
22	23	24 SW Inj line repaired and brought back online.	25	26	27 PSI onsite to replace P410 VFD for OU2 XS pump.	28
29	30 Western Network wells shutdown for Shaw EW-OU2-06A line work.	31	*134 USA Alerts for the month of July, none of which required onsite attention*			



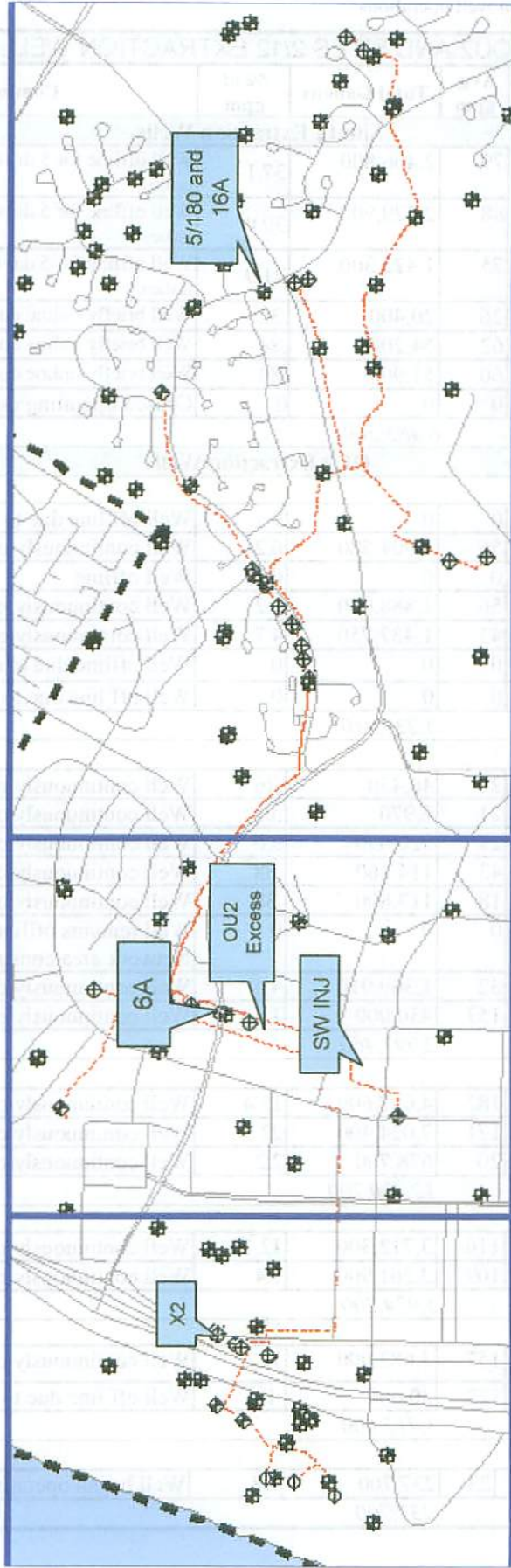
Status Of Extraction Wells:

The table below provides the status of each of the extraction wells for OU2 and Sites 2/12, and identifies any issues related to the extraction well operations.

July 2007 OU2 AND SITES 2/12 EXTRACTION WELL STATUS					
Well Identification	% On	Avg. gpm	Total Gallons	% of gpm	Comments
Site 12 Extraction Wells					
EW-12-X1	67.9	79	2,406,800	37.1	Well offline for 5 days due to power outage issues.
EW-12-X2	64.4	88	2,529,900	39.0	Well offline for 5 days due to power outage issues.
EW-12-X3	42.4	75	1,422,300	21.9	Well offline for 5 days due to power outage issues.
EW-12-03-U	1.7	26	20,400	.32	Well briefly online due to power outage issues.
EW-12-03-M	1.9	62	54,200	.84	Well briefly online due to power outage issues.
EW-12-04-U	1.9	60	51,900	.80	Well briefly online due to power outage issues.
EW-12-04-M	0	0	0	0	Ceased operating on 11/21/2005. No power.
<i>Total gallons treated :</i>			6,485,500		
OU2 Extraction Wells					
Western Network					
EW-OU2-01-A	0	0	0	0	Well off line due to low concentrations.
EW-OU2-02-A	76.1	56	1,904,580	6.2	Well continuously operating.
EW-OU2-03-A	0	0	0	0	Well offline.
EW-OU2-04-A	75.9	56	1,888,080	6.2	Well continuously operating.
EW-OU2-05-A	74.1	43	1,437,750	4.7	Well continuously operating.
EW-OU2-06-A	0	0	0	0	Well offline due to area construction.
EW-OU2-01-180	0	0	0	0	Well off line due to low concentrations.
<i>Total gallons treated :</i>			5,230,410		
Eastern Network					
EW-OU2-07-A	4.4	24	46,430	.16	Well continuously operating.
EW-OU2-08-A	0.3	21	2,970	.01	Well continuously operating.
EW-OU2-09-A	71.8	29	920,090	3.0	Well continuously operating.
EW-OU2-10-A	5.9	43	114,260	.38	Well continuously operating.
EW-OU2-11-A	14.5	18	113,800	.38	Well continuously operating.
EW-OU2-12-A	0	0	0	0	Well remains offline due to Eastern Network area construction.
EW-OU2-13-A	95.9	32	1,369,910	4.4	Well continuously operating.
EW-OU2-02-180	6.1	157	430,000	1.4	Well continuously operating.
<i>Total gallons treated :</i>			2,997,460		
Shoppette					
EW-OU2-05-180	58.0	182	4,697,600	15.4	Well continuously operating.
EW-OU2-06-180	92.3	171	7,024,400	22.9	Well continuously operating.
EW-OU2-16-A	76.0	20	678,700	2.2	Well continuously operating.
<i>Total gallons treated :</i>			12,400,700		
CSUMB					
EW-OU2-14-A	71.5	116	3,712,300	12.1	Well continuously operating.
EW-OU2-15-A	46.4	109	2,261,900	7.4	Well continuously operating.
<i>Total gallons treated :</i>			5,974,200		
Landfill					
EW-OU2-03-180	52.5	157	3,682,000	12.1	Well continuously operating.
EW-OU2-04-180	0.6	122	30,600	.10	Well off line due to low concentrations.
<i>Total gallons treated :</i>			3,712,600		
Bunker Hill Well					
EW-OU2-08-180	23.3	23	237,700	.78	Well began operating continuously 7/20/07.
<i>Total gallons treated :</i>			237,700		



OU2 West Area



Sites 2/12 Area

OU2 East Area

OPERABLE UNIT CARBON TETRACHLORIDE PLUME ENHANCED IN SITU BIOREMEDIATION PILOT STUDY

STATUS - AUGUST 2, 2007

FIELD WORK

- Well Construction Complete – Jul 27
 - 15 extraction wells
 - 7 injection wells
 - 5 monitoring wells
- Well Development in Progress
- System Construction in Progress
 - all major equipment on site
 - constructing substrate processing equipment in conex box
 - electrical/system automation

SCHEDULE

- Well Development – Aug 8
- Slug Testing – Aug 6 to Aug 21
- System Installation – Aug 28
- Electrical Installation – Sep 7
- Startup/Tracer Testing – Sep 10 to Oct 10

DATA

- See attached drawing for preliminary depths to top of Fort Ord Salinas Valley Aquitard (FO-SVA).



Approximate Depth to Top of Fort Ord – Salinas Valley Aquitard
 (depths in feet below ground surface)
 (green – from continuous core samples)

HGL AGENDA

Fort Ord HTW BCT Meeting
1:00 PM, 2 August 2007
Monterey, California

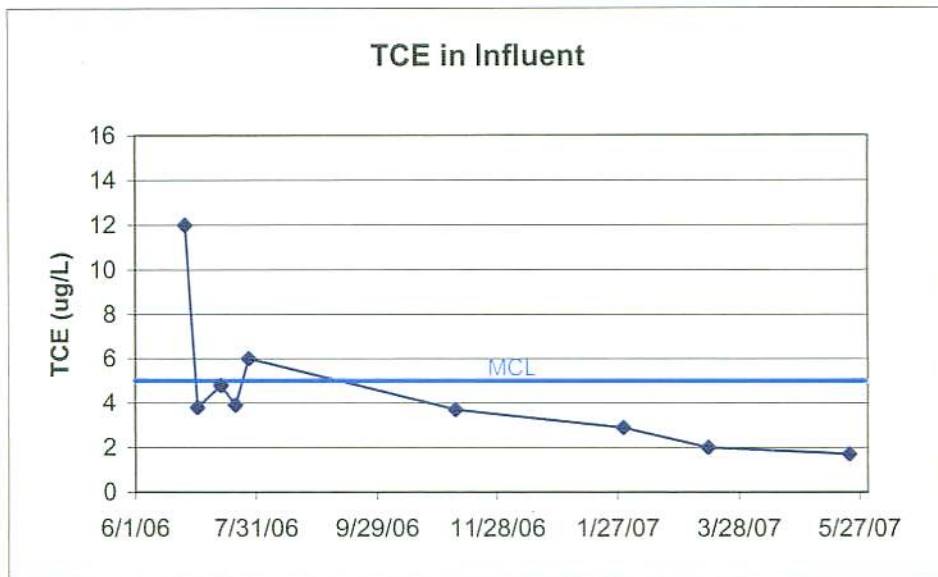
1. Groundwater Remediation Project Update
 - HCPP System operation update (see attached summary).
 - Collected routine treatment system and extraction well samples on 7/17/07.
2. Quarterly LTM
 - 4th Quarter and Annual 2006 Groundwater Monitoring Report submitted July 20, 2007.
 - HGL has received validated 2nd quarter 2007 data from laboratory.
 - 1st quarter 2007 groundwater report in progress.
3. Other Documents
 - HGL discussed draft Response to Comments for Draft Interim HCPP Evaluation Report with DTSC on 20 July 2007. Draft Final Interim HCPP Evaluation Report will be submitted by 30 August 2007.
 - Rebound Evaluation Tech Memo is in progress.
4. FONR Construction
 - Construction kickoff meeting was held on 18 June 2007 at MBEST Center.
 - Job trailer mobilized to site 11 July 2007.
 - Full mobilization to site on 17 July 07
 - Trenching and installation of pipeline has been completed to all of the extraction and injection wells.
 - Started trenching and construction of additional infiltration trenches.
 - Discovered live Tiger Salamander on 7/27/07, was released by Bill Collins unharmed.



5. FFA Schedule
 - Request one month delay for the Draft Final Interim HCPP Evaluation Report (to 30 August 2007).

**Fort Ord OU-1
HCPP Treatment System Operational Summary
August 2007**

Date	Influent TCE Concentration (µg/L)	Volume Treated (gal)	Mass Removed (lb)
6/27/06-7/1/06	12.00	190,000	0.019
7/2/06-7/12/06	3.80	781,680	0.025
7/13/06-7/19/06	4.80	425,980	0.017
7/20/06-7/26/06	3.90	371,170	0.012
7/27/06-9/29/06	6.00	3,497,030	0.175
9/30/06-1/29/07	3.70	5,514,470	0.170
1/30/07-3/13/07	2.90	2,351,090	0.057
3/13/07-5/22/07	2.00	3,698,570	0.062
5/22/07-7/23/07	1.70	2,928,980	0.042
Total Volume Pumped (gal)			19,758,970
Total Mass Removed (lb)			0.58
Average Pumping Rate (gpm)			36.23



**Operable Unit 1 Groundwater Treatment System
FFA Schedule**

Deliverable / Event	Current Deadlines (Previous Deadlines)	Remarks / Reason for Change
Draft Interim Hydraulic Control Pilot Project Evaluation Report	3/07	Issued
Comments Due	5/07	
Draft Final Interim Hydraulic Control Pilot Project Evaluation Report	8/07 (7/07)	Delayed due to addressing regulatory comments
Comments Due	10/07	
Final Interim Hydraulic Control Pilot Project Evaluation Report	11/07	
Draft FONR Groundwater Remediation System Construction Completion Report	1/08 (5/07)	Delayed due to need for additional design information
Comments Due	3/08	
Draft Final FONR Groundwater Remediation System Construction Completion Report	4/08 (7/07) ✓	Delayed due to need for additional design information
Comments Due	6/08	
Final FONR Groundwater Remediation System Construction Completion Report	7/08	