

SUBJECT: HTW – BCT Meeting

July 13, 2004
1:00 p.m.

BRAC Conference Room

Check

Name _____

Organization

Phone

E-mail address

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/	Claire Trombadore	U.S. EPA	415/972-3013	Trombadore.Claire@epa.gov
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<i>yy</i>	Gail Youngblood	Fort Ord BRAC	831/242-7918	gail.youngblood@monterey.army.mil
	George Siller	COE	916/557-7418	<u>George.L.Siller@usace.army.mil</u>
	Glen Mitchell	COE	916/557-7774 or 831/884-9925 ext. 232	<u>Glen.Mitchell@usace.army.mil</u>
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<i>D</i>	Derek Lieberman	Fort Ord BRAC	831/242-4873	Derek.Lieberman@monterey.army.mil
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<i>CM</i>	Carlene Merey	MACTEC E&C	415/884-3276	<u>cmerey@mactec.com</u>

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Check (✓)	Name	Organization	Phone	E-mail address
	Marc Edwards	COE	831/884-9925 ext 244	<u>Marc.A.Edwards@usace.army.mil</u>
	Michael Taraszki	MACTEC E&C	415/884-3325	<u>mtdtaraski@mactec.com</u>
	John Guenza	Ahtna	707/553-1501	<u>jguenza@ahtnagov.com</u>
	Mark Fisler	Ahtna	831/384-3735	<u>mfisler@ahtna.gov</u>
	Gerald Robbins	Ahtna	831/384-3735	<u>grobibins@ahtna.gov</u>
	David Smith	HydroGeologic, Inc	916/614-8770	<u>dsmith@hgl.com</u>
✓	Bob Parkins + Don Jones	HydroGeologic, Inc	916/614-8770 " "	<u>bparkins@hgl.com</u> <u>djones@hgl.com</u>
	Kris Escarda	DTSC	916/255-3651	<u>kescarda@dtsc.ca.gov</u>

14 G.I.

None Thank you

**Former Fort Ord
Agency Meeting Agendas
July 2004**

July 13, 2004 at 1:00 p.m.

HTW BCT Meeting

BRAC Conference Room

July 14, 2004 at 10:00 a.m.

Technical Review Committee Meeting

Ord Military Community Chapel

July 14, 2004 at 1:00 p.m.

MR BCT Meeting

BRAC Conference Room

HTW BCT Meeting
BRAC Conf. Room

Item	Action	Comment
Operable Unit Carbon Tetrachloride Plume	Status Update/Workplan presentation	
Operable Unit Carbon Tetrachloride Soil Gas	Status Update	
OU1 Groundwater Remediation	Status Update	
OU2 and 2/12 Treatment Systems	Status Update	
FFA Schedule	Review	
Deliverables Distribution	Discussion	
Site 39 Eco Risk Work	Status Update	
Operable Unit 2 Landfill Gas	Status Update	
Basewide Range Assessment	Status Update	
Range 36A Closure Activities	Status Update	
East Garrison Ranges Interim Action	Status Update	
FOST/FOSL/FOSET Issues	Status Update	
Calendar	Update	

MR BCT Meeting
BRAC Conf. Room

Item	Action	Comment
Action Items	Update	
Fieldwork Update	Update	
Site Security Update	Update	
Interim Action Update	Update	
Track 1	Update	
Track 2	Update	
FFA Schedule	Update	

OU CTP Bio-Treatability
Pilot Study
Six week results



Carbon Tet

MW-EW-23-A

6.1
5.3

4/13/04
6/08/04

ØS-CT-07 8.3 ØS-CT-09
7.8 5.7
8.3

ØS-CT-08

12 11 ØS-CT-06
ØS-CT-04 6.4

7.7 7.9
7.9

ØS-CT-05 7.9
7.6

ØS-CT-03 10
6.1

ØS-CT-02

3.5
ND(0.50)

4.2
ND(0.20)

2.7 ØS-CT-01
2.0

MACTEC

Chloroform

EW-BW-23-A

0.83
0.58

4/13/04
6/08/04

GS-CT-07
1.2
1.0

GS-CT-04
0.90
0.81

GS-CT-08

1.4
1.2

GS-CT-06
1.0
1.1

GS-CT-05
1.0
0.74

GS-CT-03
1.4
1.1

GS-CT-02
0.55
1.3

GS-CT-M
4.2
ND(0.20)

ND (0.50)
ND (0.50)

GS-CT-01

MACTEC

Ferrous Iron

MMW-BMW-23-A

ND (0.20)
ND (0.20)

4/13/04

6/08/04

GS-CT-07

ND (0.20)
ND (0.20)

GS-CT-08

ND (0.20)
ND (0.20)

GS-CT-04 ND (0.20)
ND (0.20)

GS-CT-06

ND (0.20)
ND (0.20)

ND (0.20)
ND (0.20)

ND (0.20)
ND (0.20)

GS-CT-08

GS-CT-02

ND (0.20)
ND (0.20)

ND (0.20)
ND (0.20)

ND(0.20)
2.55

GS-CT-MW

ND(0.20)
7.4

ND (0.20) GS-CT-01
ND (0.20)



Nitrate

DRAFT-BY-23-A

NS 16

4/13/04

6/08/04

2.9	ØS-CT-07	ØS-CT-09	2.1	2.1
12			7.6	
2.7	ØS-CT-04	ØS-CT-08	3.2	3.2
10			12	12
2.7	ØS-CT-04	ØS-CT-06	2.5	2.5
10			11	11
2.8		ØS-CT-05	11	11
		ØS-CT-02		
2.4		ØS-CT-MY	1.9	1.9
ND			ND	ND
2				2
				ØS-CT-01
				8

Bromide (tracer)

B74-23-A

4/13/04 **6/08/04**

ND (1)				
ND (1)				
ND (1)				
ND (1)				
ND (1)				

ND(1)
12

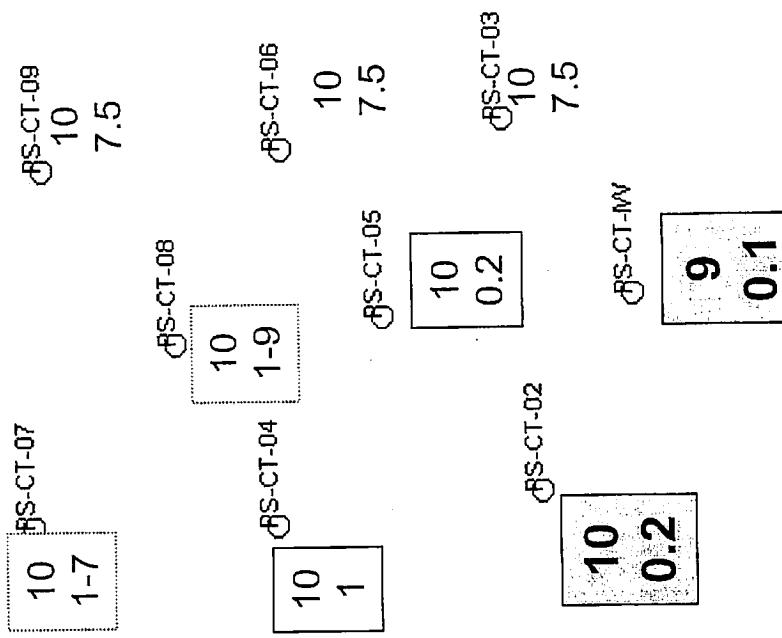
ND (1)
14

ND (1)
ND (1)

Dissolved Oxygen

EW-EMW-23-A

4/13/04
6/08/04



9 GS-CT-01
6

MACTEC

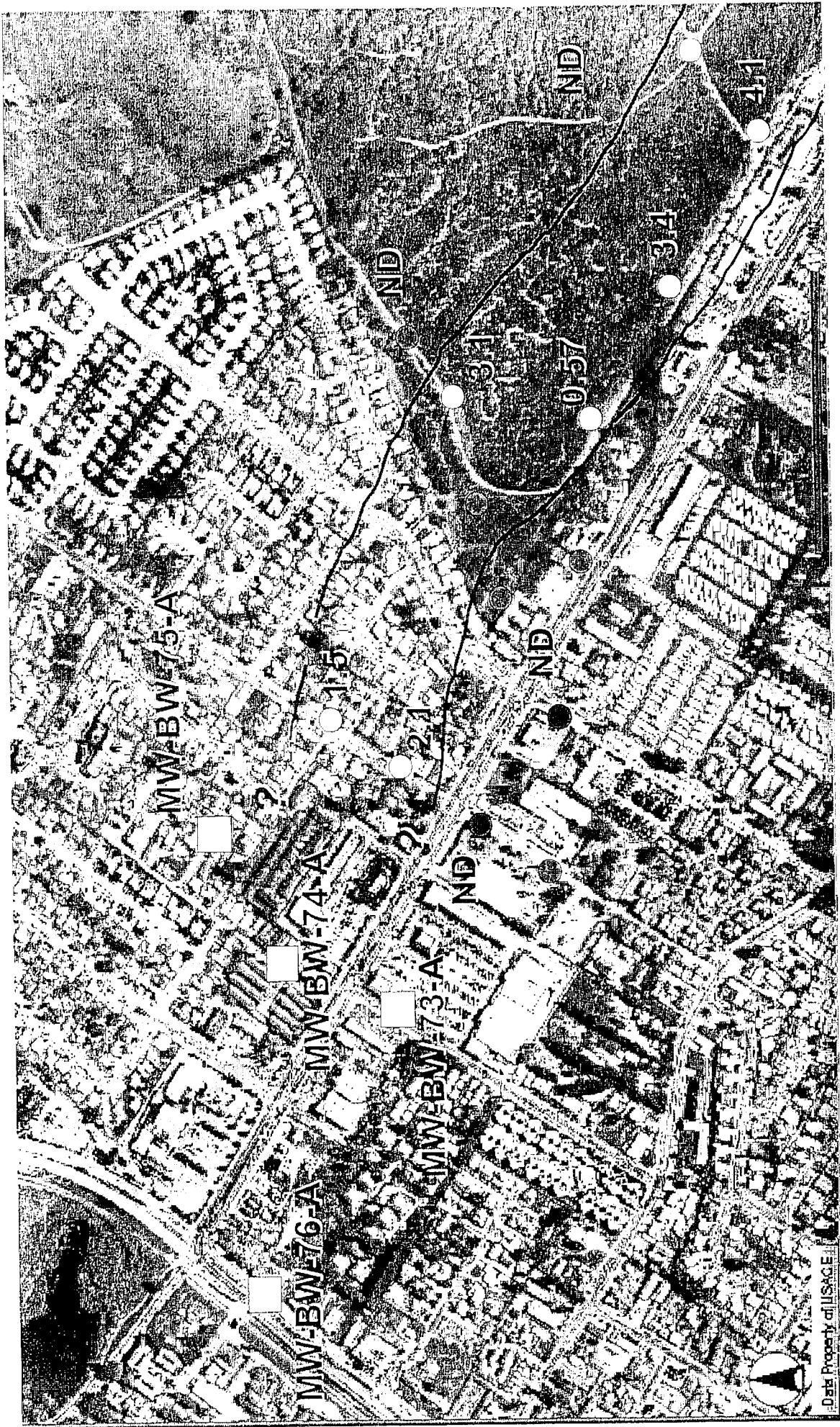
It's Working!

- Reduced dissolved oxygen near injection point
- Increased concentration in ferrous iron, and some methane generation
- Reduced concentrations of sulfate and nitrate
- Reduced concentration of carbon tetrachloride and increased concentration of chloroform (degradation product)





Proposed A-Aquifer Monitoring Well



**Close-up of OU CTP
toe area**

Proposed A-Aquifer Monitoring Well

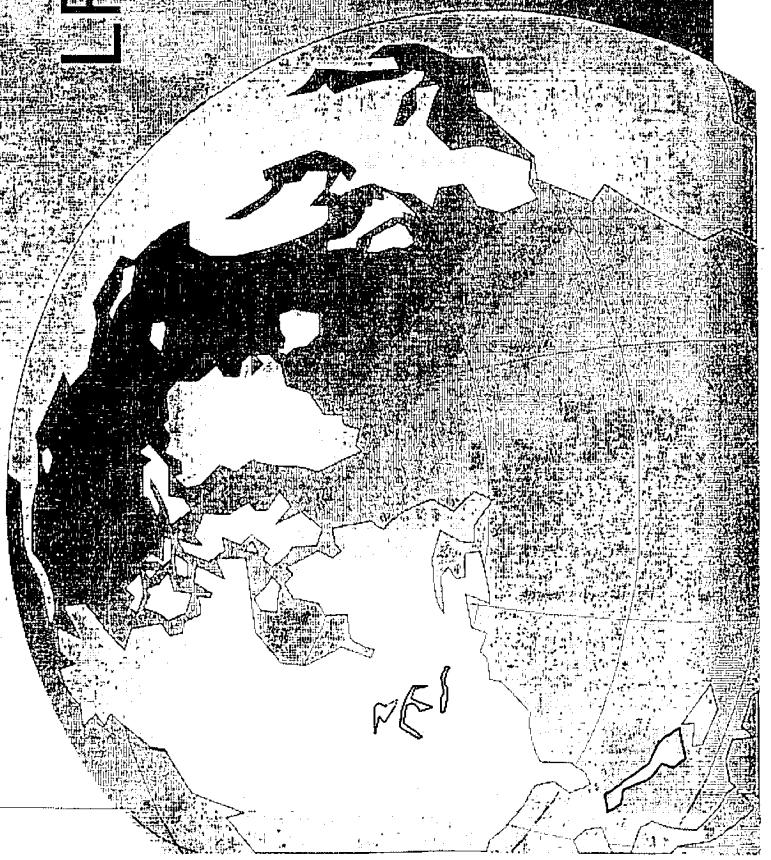


ShawTM

Shaw Environmental & Infrastructure Inc.

LFG System Expansion

JULY 13, 2004



Objectives

- 👉 Reduce VOC migration from landfill to underlying groundwater
- 👉 May reduce VOC emissions to atmosphere
- 👉 Remove and treat both VOCs and methane



Extraction System Components

- ☞ Install 18 additional extraction wells around north, west and south sides of Area F
 - 22 to 32 feet depth with bottom 10 feet screened
 - Connected to common header
- ☞ Install 5 extraction wells within Area F to provide a rich source of methane for fueling TOU
 - 70 feet depth with bottom 40 feet screened
 - Separate header
- ☞ Well spacing at approximately 200 feet



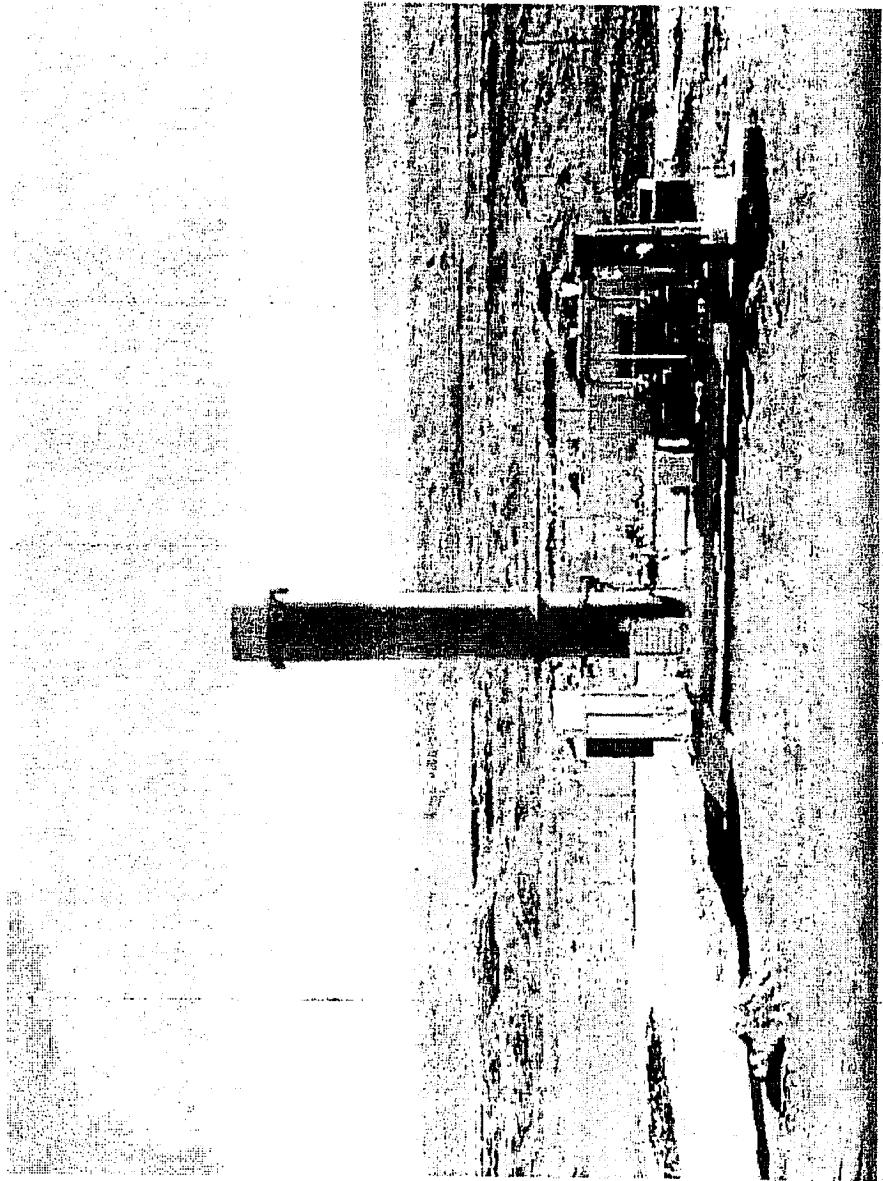
Treatment System Components

- ☛ Replace existing GAC/KMnO₄ treatment system with thermal oxidation unit (TOU)
 - Enclosed Ground Flare if interior wells produce rich source of methane for fuel
 - Thermal Oxidizer if supplemental fuel (liquid petroleum gas, propane) is required
- ☛ VOC destruction rate (including methane) from 95 to 99 percent



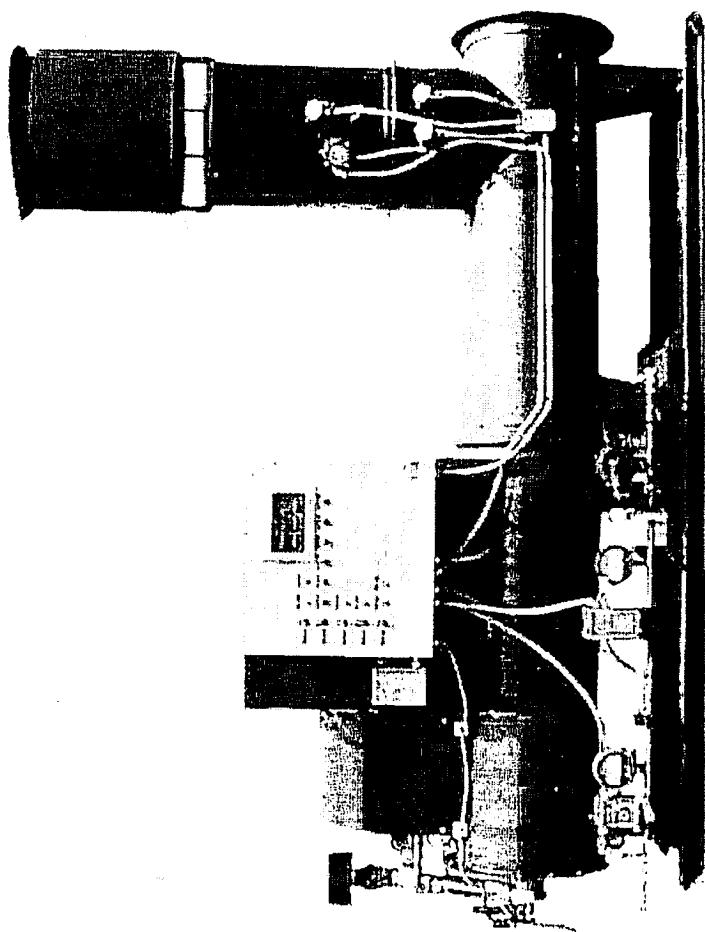
Shaw Environmental & Infrastructure, Inc.

Enclosed Ground Flare



5

Thermal Oxidizer



Shaw Environmental & Infrastructure, Inc.

LEGEND

- NEW EXTRACTION WELL
- NEW HEADER PIPE
- EXISTING EXTRACTION WELL
- EXISTING HEADER PIPE
- EXISTING COLLECTOR TRENCH
- NEW THERMAL TREATMENT FACILITY
- EXISTING LFG G.A.C. TREATMENT SYSTEM

N

0 300 600 FEET

REVISION	DATE	DESCRIPTION	CHECKED	APPROVED
		Department of the Army Sacramento District, Corps of Engineers Sacramento, California		

**LFG WELL FIELD AND
TREATMENT LOCATIONS**

Former Fort Ord, California

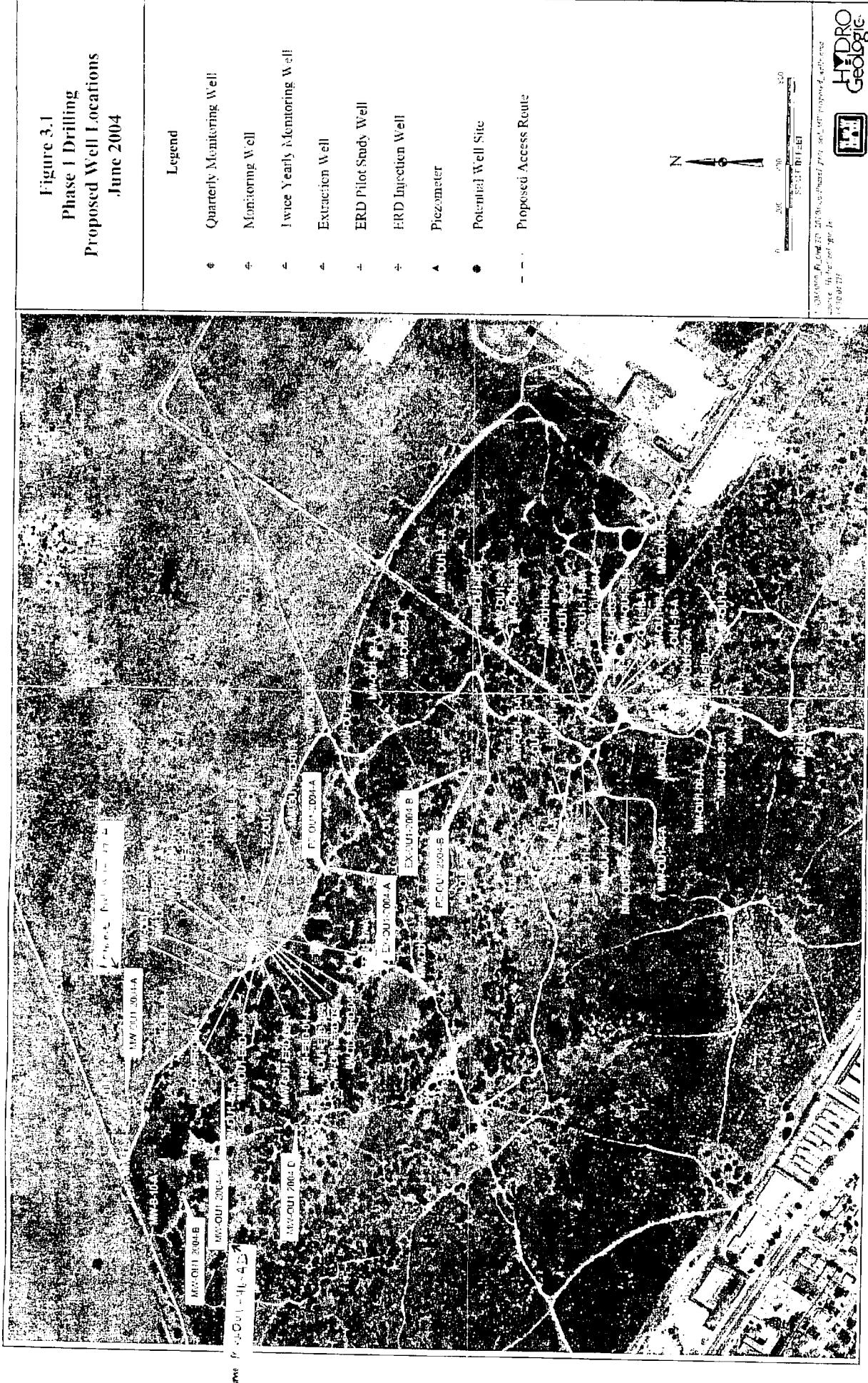
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DATE: 12/10/96
SUBMITTED: LFGmapation.mxd



BCT Meeting
OU-1 Groundwater Remediation
HydroGeoLogic, Inc.
July 13, 2004

1. Planning Documents: Final versions of the following planning documents will be or were distributed as indicated:
 - o Quality Assurance Management Plan (QAMP) – distributed 9 July
 - o Data Management Plan (DMP) – distributed 9 July
 - o O&M Manual Addendum – distributed 9 July
 - o GFPR Contract Coordination Plan; Security/Emergency Response/Contingency Plan; Waste Management and Minimization Plan – all submitted under one cover by 16 July
 - o Site Safety and Health Plan (HSP) – on/about 19 July
 - o Sampling and Analysis Plan (SAP) – on/about 19 July
2. Remedial System Modification Design: The draft is currently under internal peer review. Assuming no printing delays, the document will be distributed by 16 July; otherwise during the week of 19 July.
3. Phase 1 Drilling: Drilling operations commenced on 28 June to develop two new monitoring wells (MW-OU1-2004-A and MW-OU1-2004-C) to better define the northern extent of the plume. A new extraction well and piezometers (EX-OU1-2004-A and PZ-OU1-2004-A) will also be developed and pump tests performed to obtain aquifer data. The pump tests should be completed by 16 July. An early groundwater sample from MW-OU1-2004-C detected 2.7 PPB of TCE, indicating the possibility that the plume may be shifting somewhat to the west. One or two additional monitoring wells (MW-OU1-2004-B and MW-OU1-2004-D) will be developed to help delineate this possible shift. These sites were surveyed by a biologist on 12 July and previous plant survey data was also checked to help avoid areas populated by endangered species. New access roads will be cleared to the B and, if needed, the D sites. Data gathered from these operations will be used to calibrate the groundwater simulation model and refine the final design.
4. A draft letter recommending a finding of non-significant changes was distributed for comment during the week of 21 June. The regulators have made comments.
5. The weekly O&M activities at the OU-1 GWETS continue.
6. The draft first quarter groundwater sampling report was distributed July 9. The second quarter data is being analyzed at the lab. Results are expected in late July for subsequent validation and reporting.

Figure 3.1
Phase I Drilling
Proposed Well Locations
June 2004



GWTP O&M

- Annual Evaluation Reports
 - Preliminary Drafts for OU 1, OU 2, and Sites 2/12 will be issued for internal review by July 30. Obsolete groundwater model has been difficult to run.
 - Drafts will go out for agency review by August 15.
- 2003 Annual Mass Removal Stats
 - Sites 2/12: 44.02 lbs of total COCs removed
 - OU 2: 56.64 lbs of total COCs removed
 - OU 1: 0.19 lbs of total COCs removed.
- Semianual Groundwater Treatment Systems Evaluation Report will be issued in August.
 - January through June 2004 gallons treated
 - OU2: 191,580,000
 - Sites 2/12: 96,056,000

Maintenance Items

- Leaking OU 2 GAC unit
 - On May 28, 2004, a small leak was observed on the sample port weld in GACC. The eastern and western extraction well networks were shut down and the northern GAC vessels were isolated.
 - On June 4, 2004, the carbon was removed from the vessel and the GAC unit was inspected, revealing that the weld had corroded. A subcontractor is currently preparing a cost estimate to repair the vessel.
 - The OU 2 GWTP is currently operating at 520 gpm, which is 65 – 70% of normal operations.
 - A cost estimate to repair the GAC unit has been submitted to the Corps for approval.
- High Pressure Issue – Eastern and Expansion Networks
 - A cost estimate to perform an engineering evaluation of the high pressure problems associated the Eastern Network and Expansion Network extraction wells is being prepared.

Federal Facility Agreement
Draft Timetable and Deadlines - Updated
Carbon Tetrachloride (OU CTP) ROD/RD/RA, Former Fort Ord

Deliverable/Event	Current Deadlines (Previous Deadlines)	Deadline Revision Rationale
OU CTP ROD Activities		
Draft RI/FS Work Plan Comments Due	7/02 9/02	
Draft Final RI/FS Work Plan Comments Due	10/02 11/02	
Draft RI/FS Comments Due	1/05 (10/04) 3/04 (12/04)	Additional evaluation of two ongoing pilot studies are required "
Draft Final RI/FS Comments Due	4/05 (1/05) 5/05 (2/04)	" "
Draft Proposed Plan Comments Due	6/05 (3/04) 8/05 (5/04)	" "
Draft Final Proposed Plan Comments Due	9/05 (6/04) 10/05 (7/04)	" "
Final Proposed Plan Public Comment Period	11/05 (8/04) 12/05 (9/04)	" "
Draft ROD Comments Due	1/06 (10/05) 3/06 (12/05)	" "
Draft Final ROD Comments Due	4/06 (1/06) 5/06 (2/06)	" "
Final ROD Signed	6/06 (3/06)	"

Rationale: The bio-treatability pilot study is showing promising results but insufficient time has elapsed to include them within the FS. Furthermore, evaluation of the SVE pilot study has not been completed but, similarly, indicates favorable results. Given the importance of both of these data sets, an additional three months will be required to complete the RI/FS report and subsequent deliverables.

Draft

OU-CTP_V03-FO
July 12, 2004

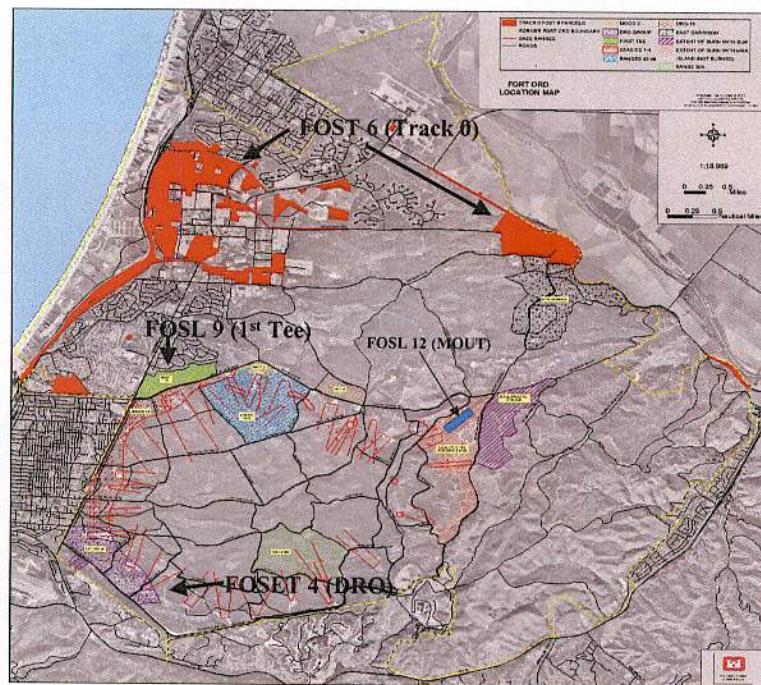
MACTEC E&C

Former Fort Ord Property Transfer Status

- FOST 6 (Track 0)
- FOSL 9 (First Tee)
- FOSL 12 (MOUT)
- FOSET 4 (Del Rey Oaks)

Mr. Derek S. Lieberman/DAIMBO-HOR/derek.lieberman@monterey.army.mil/DSN 768-7924

1



2

Title/Description	95 Parcels ~ 1,234 acres	Comments
FOST 6 Track 0 Parcels (Version 0/October 2001) (Version 0.1/January 2002) (Version 1/August 2002) (Version 1.1/March 2003) (Version 2.0/May 2003)	E11b.1, E11b.2, E11b.3, E11b.4, E15.1, E2b.1.1.1, E2b.1.1.2, E2b.1.2, E2b.1.3, E2b.1.4, E2b.1.5, E2b.2.1, E2b.2.2, E2b.2.3, E2b.2.4, E2b.2.5, E2b.3.1.1, E2b.3.2, E2c.1, E2c.2, E2c.3.1, E2c.3.2, E2c.3.3, E2c.4.1.1, E2c.4.2.1, E2d.1, E2d.2, E2e.1, E2e.2, E4.5, E8a.1.2, E8a.1.3, E8a.1.4, E8a.1.5, F2.7.2, F7.2, L1.1, L12.2.2, L12.2.3, L12.3, L15.1, L19.2, L19.3, L19.4, L2.2.1, L20.9, L20.10.1.1, L20.10.1.2, L20.10.2, L20.10.3, L20.14.1.2, L20.16.1, L20.16.2, L20.16.3, L20.17.1, L20.19.2, L20.20, L20.21.1, L20.21.2, L20.22, L23.1.1, L23.1.2, L23.1.3, L23.1.4, L23.1.5, L23.3.1, L23.3.2.1, L23.4, L23.6, L32.2.1, L32.2.2, L32.3, L32.4.1.1, L32.4.2, L33.1, L33.2, L35.1, L35.2, L35.3, L35.5, L35.6, L35.7, L35.8, L36, L5.10, L5.8.1, L5.8.2, L7.8, L7.9, S1.3.3, S1.5.1.2, S2.1.4.2, S4.1.2.1, S4.1.2.2, S4.1.3, S4.1.4, S4.1.5	Signed May 27, 2003. Public Notice published and deeds in the process of being recorded. CRUP 1 (groundwater) for 17 parcels (127 acres); recorded 9/17/03. CRUP 2 (groundwater) for 38 parcels (489 acres); recorded 9/22/03. CRUP 3 (residential) for parcel F2.7.2 (2.17 acres); recorded 3/22/04. CRUP 4 (groundwater) for 37 parcels (562 acres); signed by DTSC and RWQCB, held by Army pending receipt of deeds. This CRUP includes East Garrison parcels. Possible issue with salamander. 51 parcels transferred by deed as of 4/21/04.

Mr. Derek S. Lieberman/DAIMBO-HOR/derek.lieberman@monterey.army.mil/DSN 768-7924

3

FOST 6 (Track 0)

Parcel L23.3.1
(East Garrison trap and skeet range – excavation area)

GOAL: TRANSFER BY END OF FISCAL YEAR (30 SEPTEMBER 2004)

JUNE:

- Developer removed buildings.
- Army collected lead shot.
- Army excavated clay target debris and collected excavation area confirmation samples.

JULY:

- Army received preliminary analytical results for excavation area samples.
- Only one sample above PRG for lead.
- Most samples above PRGs for PAHs.
- Potholed in two locations to characterize soil profile. Upper two feet highly compacted and disturbed silty sand containing asphalt chunks and burned debris.
- Working with DTSC on next steps.

AUGUST:

- Army completes letter report and submits to DTSC.

SEPTEMBER – OCTOBER:

- Army signature on CRUP 4 and transfer of parcel pending DTSC concurrence.

Mr. Derek S. Lieberman/DAIMBO-HOR/derek.lieberman@monterey.army.mil/DSN 768-7924

4

Title/Description	3 Parcels ~ 123 acres	Comments
FOSL 9 First Tee Youth Golf Course (V0/February 2004) (V1/March 2004) (V1.1/April 2004) (Final/April 2004)	E20c.1.1.1 and portions of E20c.1.1.2 and E20c.1.3	FOSL signed 5/5/04. Agencies provided with electronic copy, hard copy and public notice pending signature of lease (currently under review by developer).

Mr. Derek S. Lieberman/DAIMBO-HOR/derek.lieberman@monterey.army.mil/DSN 768-7924

5

FOSL 12 (MOUT)

Title/Description	1 Parcel ~ 54 acres	Comments
FOSL 12 Military Operations on Urban Terrain (MOUT) Site	F1.7.2.	Draft FOSL in preparation. Received letter request from Monterey Peninsula College (MPC) for lease. Performed site walk on 15 June, observed some trash accumulation at Bldg. 613 and some wooden structures burned in the Eucalyptus Fire. Further action pending resolution of tiger salamander issue.

Mr. Derek S. Lieberman/DAIMBO-HOR/derek.lieberman@monterey.army.mil/DSN 768-7924

6

Title/Description	6 Parcels ~ 342 acres	Comments
FOSET 4 Del Rey Oaks (V.0/Oct 24, 2000) (V.0.1/Jan 2001) (V.0.2/Apr 2001) (V.0.3/Sept 2001) (V.0.4/Nov 2001) (V.0.6/Apr 2003) (V1.0/June 2003) (V1.3/Apr 2004)	E29a, E29b, E31a, E31b, E31c, E36	FOSET, EROA and CRUP finalized. Del Rey Oaks (DRO) and DTSC working on Agreement as of 12 July. Hampton Field Office will submit draft FOSET package to DA BRAC for review on 14 July.

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7

California Tiger Salamander

(Ambystoma californiense)



- Will be listed as a federally threatened species on 23 July.
- Any federal action that may affect the salamander would require consultation.
- Property transfers may occur once Army obtains a biological opinion and a take permit.
- Recipient would also be required to obtain a take permit through the Habitat Conservation Plan process.
- East Garrison development area, the MOUT and DRO parcels could be affected.

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