

SUBJECT: HTW - BCT Meeting

10 January, 2005

10:00 a.m.

BRAC Conference Room

Check

(✓)	Name	Organization	Phone	E-mail address
<i>RR</i>	Roman Racca	DTSC	916/255-6407	Rracca@dtsc.ca.gov
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	Claire Trombadore	U.S. EPA	415/972-3013	Trombadore.Claire@epa.gov
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<i>G</i>	Grant Himebaugh	RWQCB	805/542-4636	Ghimebau@rb3.swrcb.ca.gov
<i>G</i>	Gail Youngblood	Fort Ord BRAC	831/242-7918	gail.youngblood@monterey.army.mil
	George Siller	COE	916/557-7418	George.L.Siller@usace.army.mil
<i>G</i>	Glen Mitchell	COE	916/557-7774 or 831/884-9925 ext. 232	Glen.Mitchell@usace.army.mil
<i>P</i>	Peter Kelsall	Shaw E & I, Inc	831/883-5810 ext. 810	Peter.Kelsall@shawgrp.com
<i>D</i>	David Eisen	COE	831/393-9692	David.Eisen@usace.army.mil
<i>D</i>	Derek Lieberman	Fort Ord BRAC	831/242-4873	Derek.Lieberman@monterey.army.mil
<i>E</i>	Ed Ticken	MACTEC E&C	415/884-3176	ejticken@mactec.com

Former Fort Ord
Agency Meeting Agendas
January 2005

January 10 at 10:00 a.m.
HTW BCT Meeting
BRAC Conference Room

January 10, 2004 at 2:00 p.m.
MR BCT Meeting
BRAC Conference Room

HTW BCT Meeting
BRAC Conf. Room

Item	Action	Comment
FFA and Document Schedules	Status Update	
OU2 and 2/12 Treatment Systems	Status Update	
Operable Unit Carbon Tetrachloride GW Plume	Status Update	
Operable Unit Carbon Tetrachloride Soil Gas	Status Update	
Operable Unit 2 Landfill Gas	Status Update	
Basewide Range Assessment	Status Update	
Site 39 Eco Risk Work	Status Update	
Site 3 Eco Risk Issues	Status Update	
Range 36A Closure Activities	Status Update	
FOST/FOSL/FOSET Issues	Status Update	
Groundwater and Site 39 Presentations	Discuss possible schedule	
Calendar	Update	
OU1 Groundwater Remediation	Presentation	(HGL 12:30-2:00)

GWTP O&M – Sites 2/12 and OU2

- **Annual Evaluation Reports**
 - The 2005 Annual Evaluation Report will be issued to the agencies on March 31st, 2005.

- **Semiannual Operation Data Summary Report**
 - The July through December 2004 Semiannual GWTP Operation Data Summary Report will be issued to the agencies on February 15th, 2005

Operational Items

- **OU2-Methylene Chloride-Detections**
 - Methylene chloride detections a result of laboratory contamination (see attached memo).

Former Fort Ord Groundwater Treatment Systems Operational Data

Project	Category	Status/Update
OU-2		
	<u>O & M</u>	<p><u>Stats for the month of December (11/27/04-12/24/04)</u> Plant operating at 504 gpm (avg.) Average influent concentration of 11 ppb (TCE) 20.460 million gallons treated</p> <p><u>Cumulative Stats:</u> 2.949 billion gallons of water treated</p>
Sites 2/12		
	<u>O & M</u>	<p><u>Stats for the month of December (11/27/04-12/24/04)</u> Plant operating at 312 gpm (avg.) Average influent concentration of 15.5 ppb (TCE) 12.62 million gallons treated</p> <p><u>Cumulative Stats:</u> 729.911 million gallons of water treated</p>

Operational Issues:

- 1) On November 24, 2004 the OU2 plant flowrate was reduced due to Methylene Chloride detections over the discharge limits. The flow rate was kept at approximately 350 gpm and combined with treated water from the 2/12 GWTP before discharge at Site 2. On December 13, 2004 after chemistry samples were received from the extraction wells in the OU2 GWTS the treatment plant flow rate was increased to normal operational status of approx. 800 gpm and injection wells in the OU2 system brought back on line.

MEMORANDUM

To: John Guenza

January 4, 2005

From: Will Neal

Re: Methylene Chloride Detections in OU2 Injection Well Samples during Fourth Quarter 2004 Monitoring Period

Per your request, I have performed a detailed review of the methylene chloride results from the OU2 Injection Well samples, reported during the 4th Quarter 2004 monitoring period. This includes the following samples with "initial" results reported above the discharge limit of 0.50 micrograms per liter (ug/L):

OU2 Injection Well Sample ID	Reported Concentration	Sample Date
0441FOU2578F	0.74 ug/L	10/18/04
0442FOU2589F	0.56 ug/L	10/26/04
0446FOU2596F	0.78 ug/L	11/15/04

I use the term "initial" results to emphasize the point that these data do not consider the results of the data validation process that is performed on the heels of the data being reported by Sequoia Analytical. This is a key point, as described below.

As you are aware, methylene chloride contamination in water samples from many analytical laboratories, and Sequoia in particular, is ubiquitous. Quality control samples in the form of laboratory method blanks and field/trip blanks are used to help identify laboratory-related contamination related to methylene chloride and, potentially, other contaminants.

For this project, the above types of quality control samples provide data that, when integrated into the data validation process, cause the vast majority of methylene chloride detections in OU2 water samples of all types to ultimately be qualified as "not detected." While most initial methylene chloride detections are reported at "trace" or "J-flagged" concentrations (i.e., below the method reporting limit of 0.50 ug/L – which is also the discharge limit), occasionally we encounter initial results slightly above the 0.50 ug/L limit; this likely a statistical artifact. My review of historical project methylene chloride data indicates that even when these "higher" results are encountered, they are ultimately qualified as "not detected" just as often as the trace results, after application of the data validation process. The few cases where methylene chloride results (either trace or above the 0.50 reporting/discharge limit) are not qualified as "not detected" after the data validation process are typically the result of random statistical processes or instances where the lack of certain QC data precludes qualification.

For example, sometimes methylene chloride is detected in a QC sample but at a concentration just below the threshold that would otherwise result in the methylene chloride in the project sample being qualified as “not detected.” Because this decision relies, in most cases, on estimated results in the QC samples (since most QC detections are J-flagged), there is a certain degree of random error to the process. That is, not all samples that exhibit initial methylene chloride detections as a result of laboratory contamination will ultimately be qualified as “not detected.” In other cases, the accompanying trip and/or field blank may not be analyzed for methylene chloride because it is listed on a chain of custody for 2/12 samples, which are not analyzed for methylene chloride. We have taken steps to correct the latter situation by implementing a new procedure that will result in all field and trip blanks being analyzed for both the OU2 and 2/12 VOC parameters lists.

With the above information in mind, note the following with respect to the specific samples that exhibited initial results above the 0.50 ug/L discharge limit:

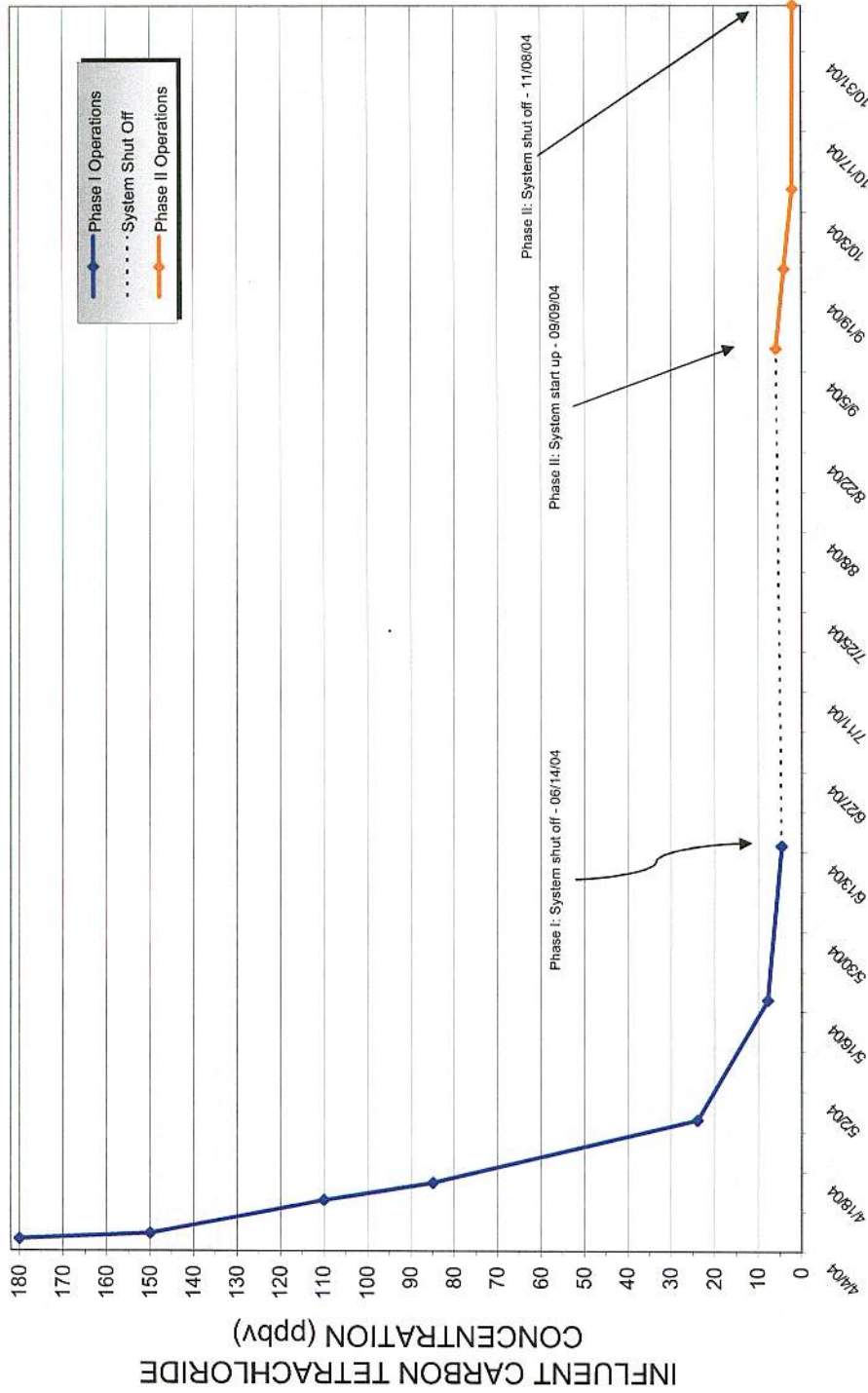
- The most recent sample with a reported methylene chloride value above the discharge limit (0446FOU2596F; 0.78 ug/L; 11/15/04) will be qualified in the semiannual report as “not detected” after application of data validation protocols (methylene chloride was detected in the method blank above the threshold value for qualification). Note that this sample exhibited the highest methylene chloride value of all.
- OU2 extraction well data reported during this period when methylene chloride values above the discharge limit were reported for the injection well samples indicated no instances where an extraction well sample exceeded 0.50 ug/L methylene chloride. Since the extraction well samples represent pre-treatment data, it is not logical that post-treatment injection well samples would exceed the 0.50 ug/L discharge limit.
- A subsequent OU2 injection well sample collected on 12/14/04 (not shown in table above) was reported as “not detected” for methylene chloride by Sequoia.

Conclusion

Based on the above information, it is concluded that the OU2 injection well sample results that initially appeared to exceed the methylene chloride discharge limit during the fourth quarter 2004 monitoring period are the result of laboratory contamination. We have taken steps to collect additional QC data that will help troubleshoot future methylene chloride detections.

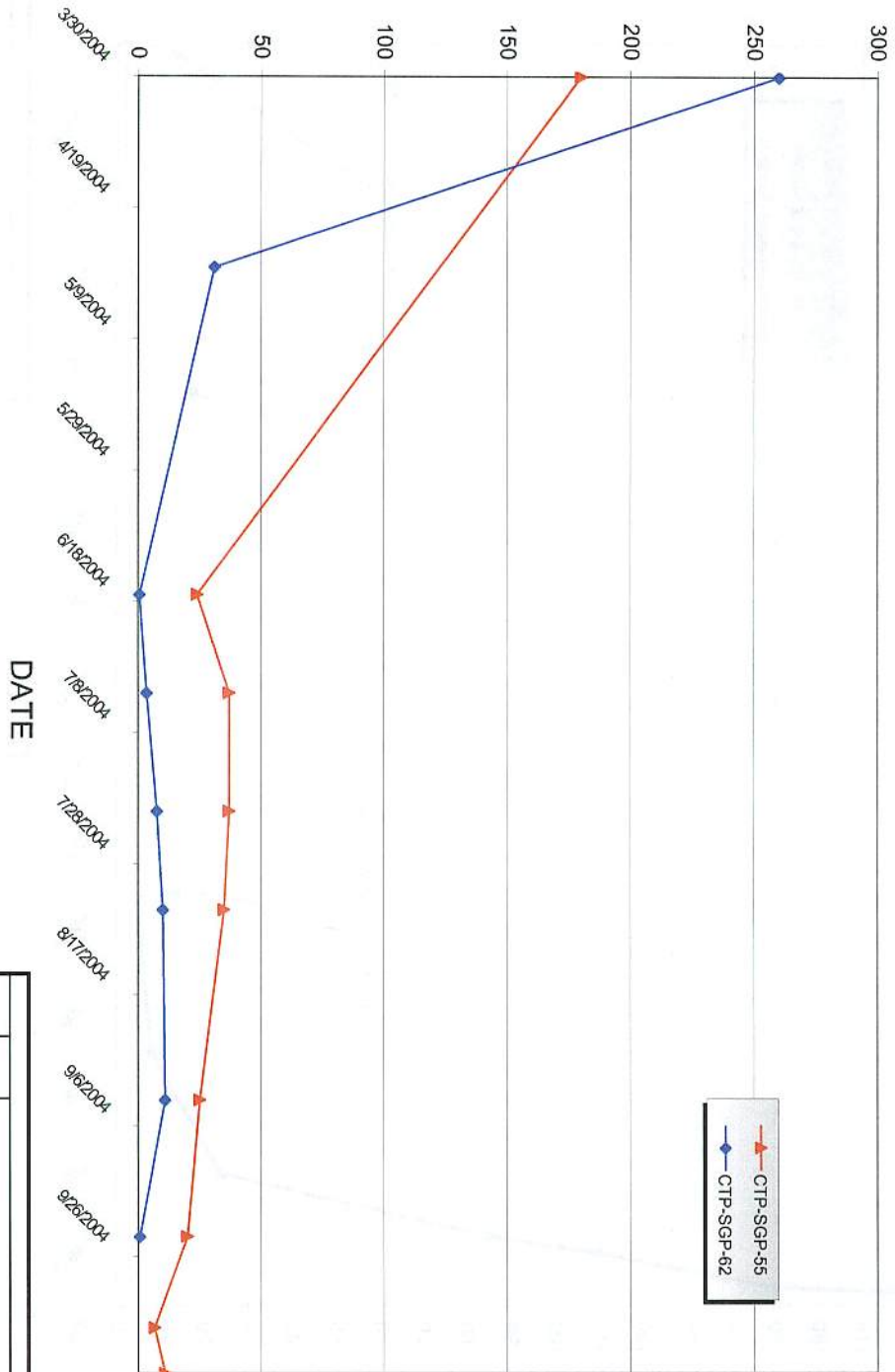
**Summary of Retained Technologies for Alternative Development
OUCTP RI/FS, Former Fort Ord, California**

Technology	Aquifer		
	A	Upper-180	Lower-180
NOFA / MNA (No Further Action/Monitored Natural Attenuation)	Not likely acceptable as full scale remedy w/COC>MCLs Could combine with source area enhancements (EB, PRB, P&T)	X Potentially applicable in conjunction with OU2 P&T optimized for OUCTP Could combine with source area enhancements (EB, P&T)	Not likely acceptable as full scale remedy w/COC>MCLs in drinking water horizon
EB (Enhanced Biodegradation)	X Potentially applicable for focused source removal (e.g., toe of plume) in conjunction with other technologies Proven effective in site studies	X Potentially applicable for focused source removal (e.g., toe of plume) in conjunction with other technologies Proven effective in site studies	Not applicable at these depths or in drinking water horizon
PRB (Permeable Reactive Barrier)	X Potentially applicable for migration control Installation difficult at these depths	Not applicable at these depths or commingled with OU2 plume	Not applicable at these depths or in drinking water horizon
P&T (Pump & Treat)	X Potentially applicable Could combine with source area enhancements (EB)	X Potentially applicable in conjunction with OU2 P&T optimized for OUCTP/migration control of condu to Lower-180 Could combine with source area enhancements (EB)	Not applicable in drinking water horizon
WHT (Well-Head Treatment)	Not applicable	Not applicable	X Potentially applicable at existing extraction wells (e.g., carbon) or via inline treatment (e.g., aeration/stripping)

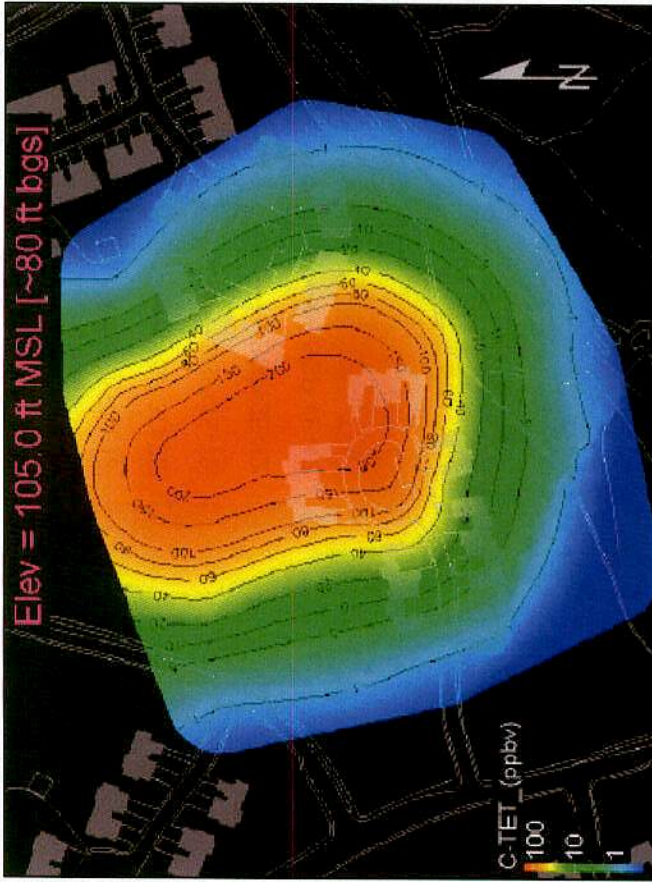


REVISION	11/17/04	CT SVE REPORT	DESCRIPTION	ES	PK
				CHD	APPR
			DEPARTMENT OF THE ARMY SACRAMENTO DISTRICT, CORPS OF ENGINEERS SACRAMENTO, CALIFORNIA		
DESIGNED: E. SCHMIDT			FIGURE 5-1 INFLUENT CARBON TETRACHLORIDE CONCENTRATION vs. TIME		
DRAWN: K. BLACK			SVE PILOT TEST		
CHECKED: P. KELSALL			OPERABLE UNIT CARBON TETRACHLORIDE		
SUBMITTED:			FORMER FORT ORD, CALIFORNIA		
DATE APPROVED:		SCALE:		SPEC. No.	
		SHEET		FILE No.	
		-		783751SJ-A170	

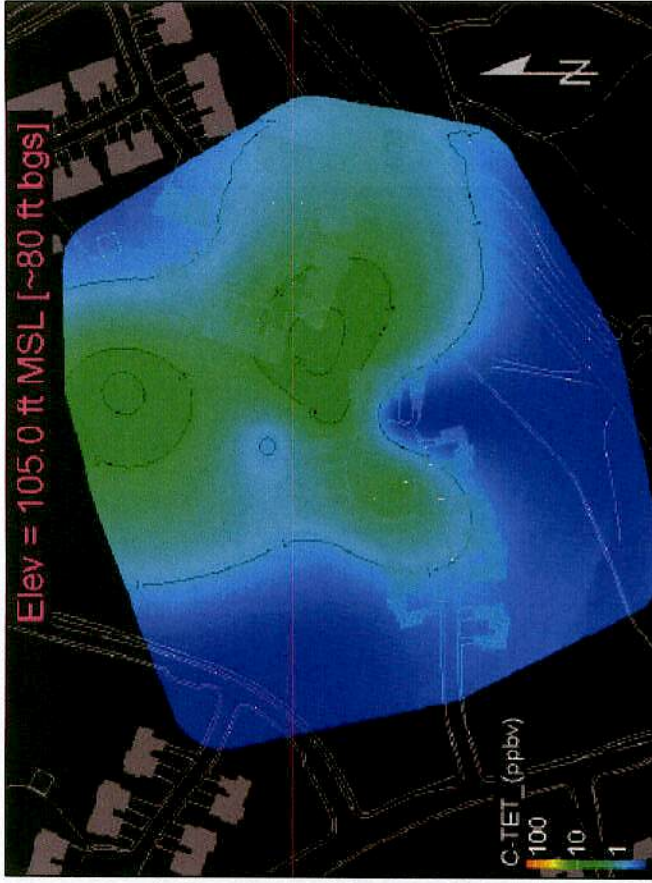
CARBON TETRACHLORIDE CONCENTRATIONS (ppbv)



DESIGNED BY: E. SCHMIDT	DEPARTMENT OF THE ARMY SACRAMENTO DISTRICT ENGINEERS SACRAMENTO, CALIFORNIA
DRAWN BY: K. BLACK	
CHECKED BY: P. KELSALL	
SUBMITTED BY:	
DATE APPROVED:	FIGURE 5-4 CARBON TETRACHLORIDE CONCENTRATIONS IN SELECTED MONITORING PROBES vs. TIME SVE PILOT TEST OPERABLE UNIT CARBON TETRACHLORIDE FORMER FORT ORD, CALIFORNIA
SCALE:	DEPARTMENT OF THE ARMY SACRAMENTO DISTRICT ENGINEERS SACRAMENTO, CALIFORNIA
SHEET	FILE No. 783751SJ-A173




PRE-SVE OPERATION

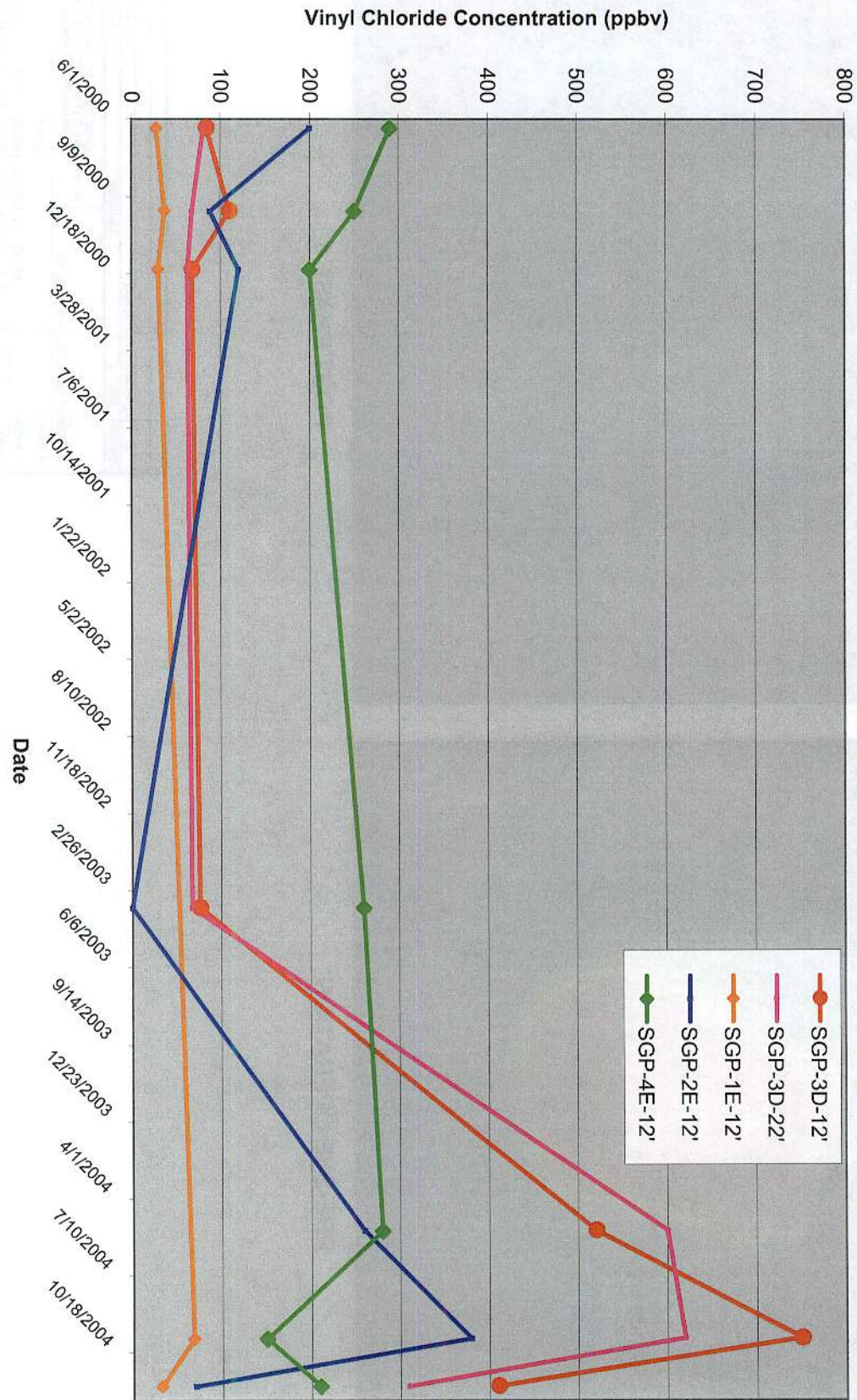


POST PHASE 1

NOTE:
Model truncated on northern boundary
due to incomplete pre-SVE concentration data.

REVISION	DATE	CT SVE REPORT	DESCRIPTION	ES	PK
B	12/13/04			CHGD	APPR
 Shaw ® Shaw Environmental, Inc. DEPARTMENT OF THE ARMY SACRAMENTO DISTRICT, CORPS OF ENGINEERS SACRAMENTO, CALIFORNIA					
FIGURE 6-1 CARBON TETRACHLORIDE CONCENTRATIONS (80 FT. DEPTH) PRE- AND POST SVE OPERATION SVE PILOT TEST OPERABLE UNIT CARBON TETRACHLORIDE FORMER FORT ORD, CALIFORNIA					
DESIGNED:		J. MATOS			
DRAWN:		K. BLACK			
CHECKED:		P. KELSALL			
SUBMITTED:					
DATE APPROVED:		SCALE:		SPEC. No.	
		SHEET		FILE No.	
		-		783751SJ-A174	

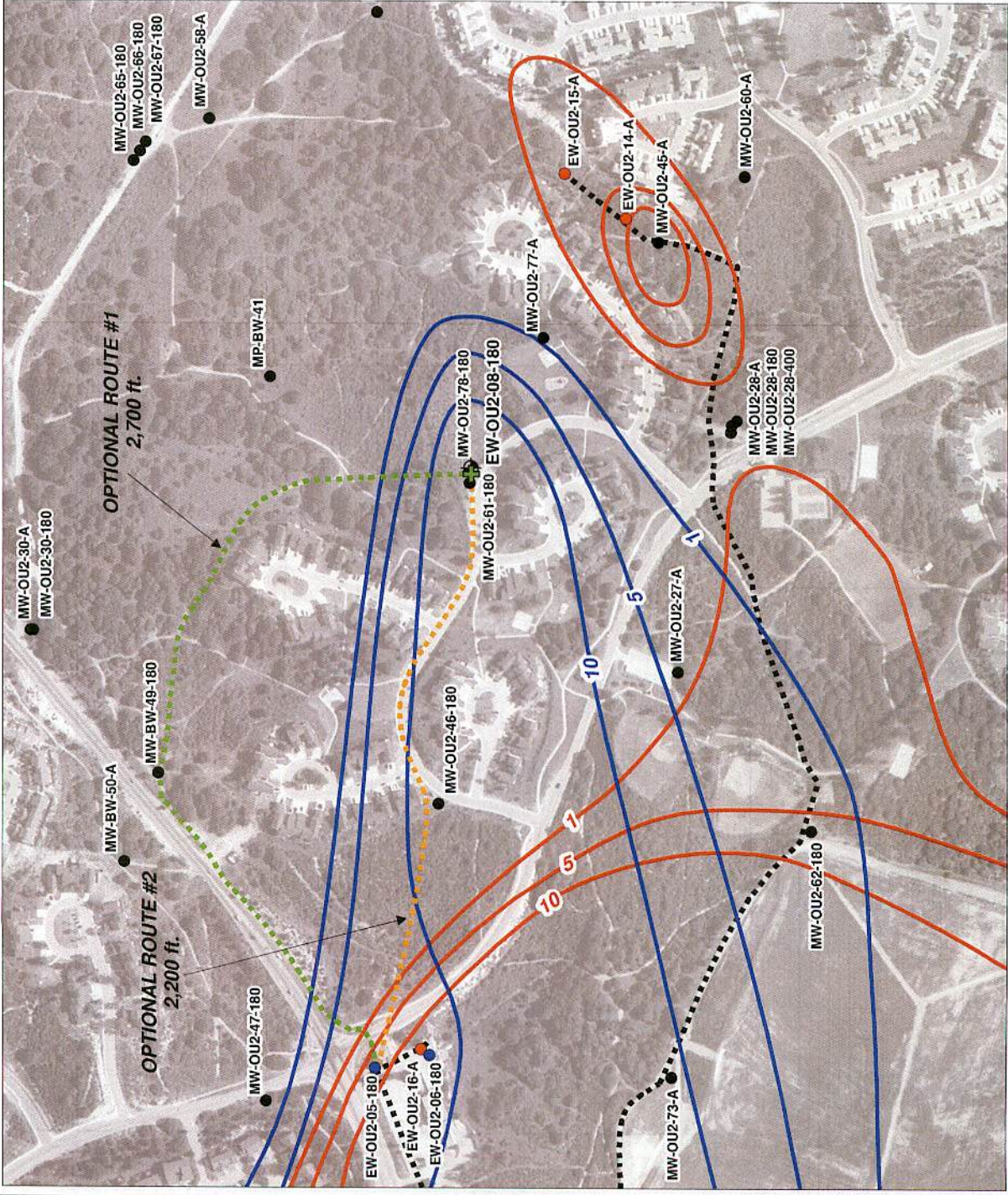
Probe Vinyl Chloride Concentration vs. Time
 VOC Trend Study - OU2 Landfill



LEGEND

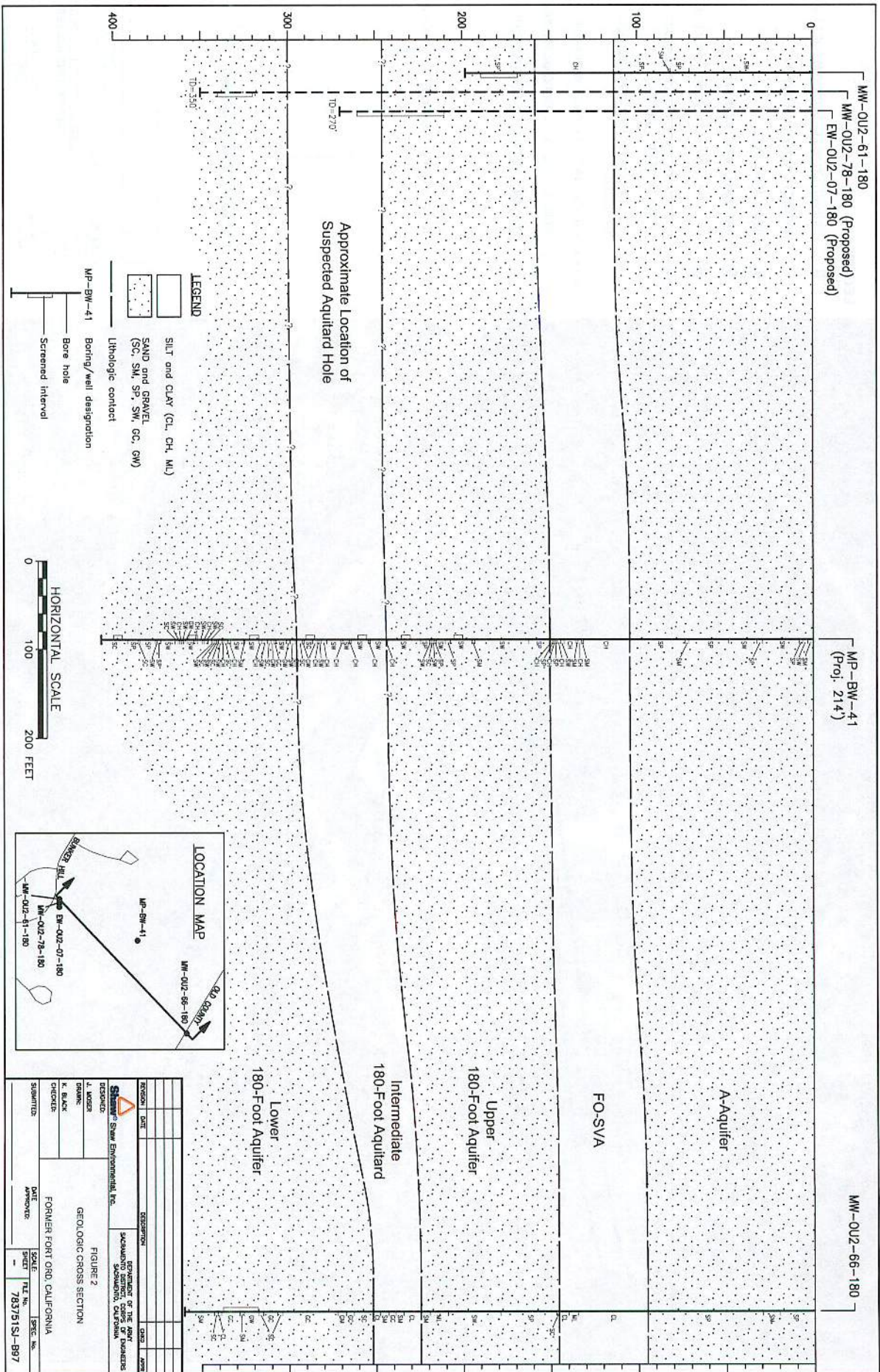
- EXTRACTION WELL - UPPER 180-FOOT AQUIFER
- EXTRACTION WELL - A AQUIFER
- MONITORING WELL
- ⊕ PROPOSED MONITORING WELL
- ⊕ PROPOSED EXTRACTION WELL LOCATION
- TCE CONCENTRATION CONTOURS (ug/L)
UPPER 180-FOOT AQUIFER
- TCE CONCENTRATION CONTOURS (ug/L)
A AQUIFER
- GROUNDWATER EXTRACTION PIPELINE
- PIPELINE EXTENSION - OPTIONAL ROUTE #1
- PIPELINE EXTENSION - OPTIONAL ROUTE #2

NOTE:
TCE CONTOURS FROM MACTEC, MARCH 2004.



REVISION	DATE	DESCRIPTION	CHKD	APPD

		Department of the Army Sacramento District, Corps of Engineers Sacramento, California	
DESIGNED BY	P. KELSALL	POSSIBLE OU2 WELL LOCATION AND PIPELINE ROUTES	
DRAWN BY	K. BLACK		
CHECKED BY	P. KELSALL		
SUBMITTED		DATE	
		SCALE	
		SHEET	
		FILE NO.	
		SPEC. NO.	



MW-0U2-61-180
 MW-0U2-78-180 (Proposed)
 EW-0U2-07-180 (Proposed)

MP-BW-41
 (Proj: 214*)

MW-0U2-66-180

Approximate Location of
 Suspected Aquitard Hole

LEGEND

SILT and CLAY (CL, CH, ML)

SAND and GRAVEL
 (SC, SM, SP, SW, GC, GW)

Lithologic contact

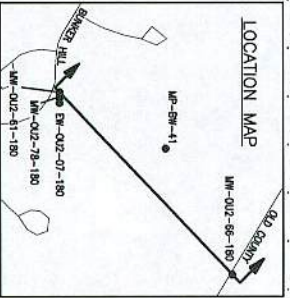
MP-BW-41 Boring/well designation

Bore hole

Screened interval

HORIZONTAL SCALE

0 100 200 FEET



REVISION	DATE	DESCRIPTION	DATE	BY
<p>Shawmut Shaw Environmental, Inc.</p> <p>REGISTRAR OF THE STATE SACRAMENTO DISTRICT OFFICE OF ENGINEERS SACRAMENTO, CALIFORNIA</p>				
CHECKED: L. WOODS K. BLACK CHECKED:		FIGURE 2 GEOLOGIC CROSS SECTION FORMER FORT OLD, CALIFORNIA		
SUBMITTED:	DATE:	SCALE:	SHEET:	TOTAL SHEETS:

GWTP O&M – Sites 2/12 and OU2

- **Annual Evaluation Reports**
 - The 2005 Annual Evaluation Report will be issued to the agencies on March 31st, 2005.
- **Semiannual Operation Data Summary Report**
 - The July through December 2004 Semiannual GWTP Operation Data Summary Report will be issued to the agencies on February 15th, 2005

Operational Items

- OU2 Methylene Chloride Detections
 - Methylene chloride detections a result of laboratory contamination (see attached memo).

Former Fort Ord Property Transfer Status

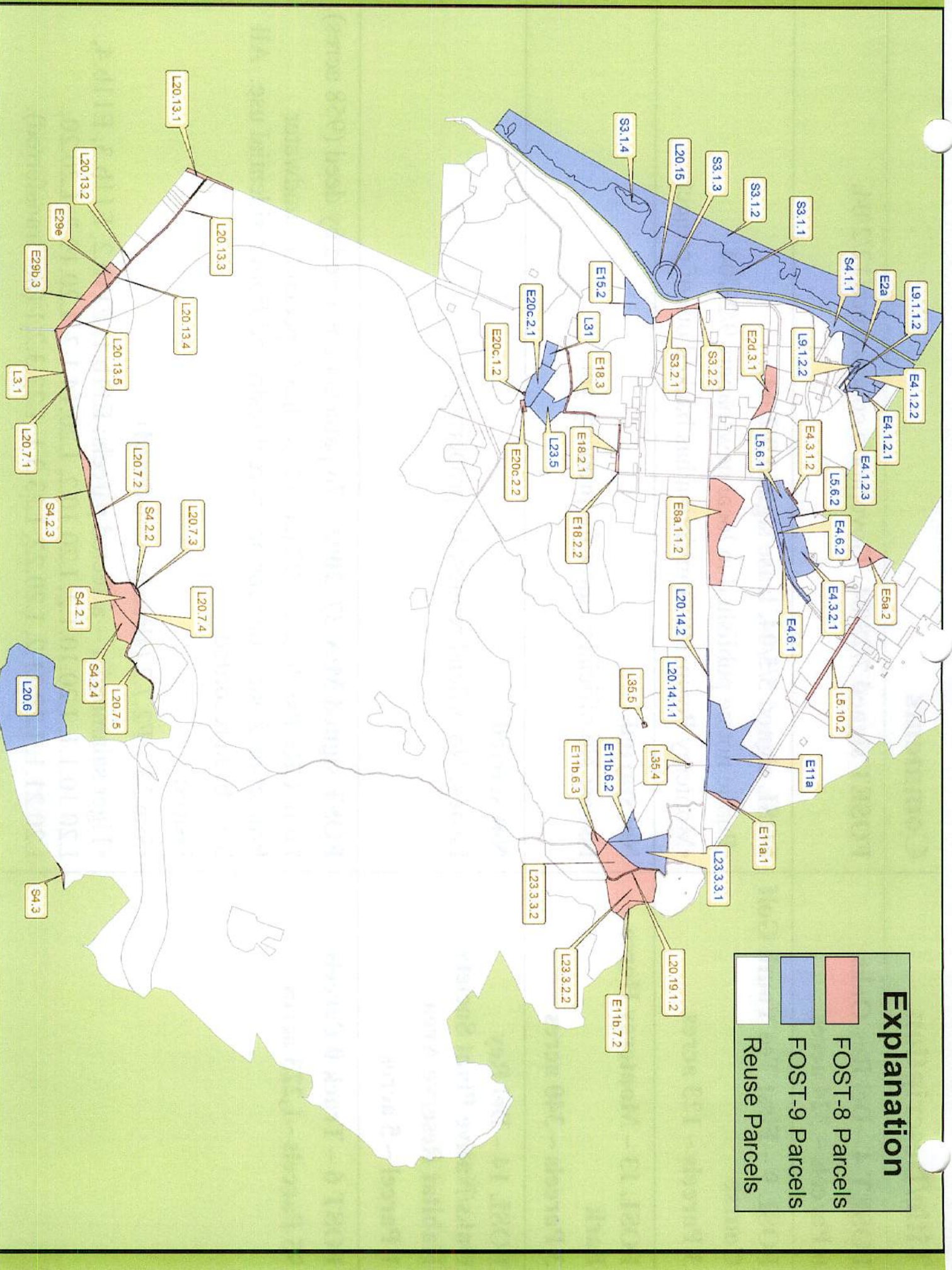
- FOSET 4 (Del Rey Oaks)
- FOSL 9 (First Tee)
- FOSL 12 (MOUT)
- FOSL 13 (Monterey Horse Park)
- FOSL 14 (Del Rey Oaks/Native Plant Society
Habitat Area)
- FOST 6 (Track 0)
- FOST 8 (Track 0 and Track 0 Plug-in B)
- FOST 9 (Track 0 Plug-in C and Track 1)



Explanation

- FOST 6 (Track 0)
- FOST-8 (Track 0 and Track 0 Plug-in B)
- FOST-9 (Track 0 Plug-in C and Track 1)
- FOSL 9 (First Tee)
- FOSL 12 (MOUT)
- FOSL 13 (Monterey Horse Park)
- FOSL 14 (Del Rey Oaks/NPS Habitat Area)
- FOSET 4 (Del Rey Oaks)
- Reuse Parcels

Title/Description	Comments
FOSET 4 – Del Rey Oaks 6 Parcels ~ 324 acres	FOSET signed 7/28/04. Governor’s concurrence 12/2/04.
FOSL 9 – First Tee Youth Golf Course 3 Parcels ~ 123 acres	FOSL signed 5/5/04, lease signed 9/2/04. <ul style="list-style-type: none"> •Public notice published in local newspapers 9/23/04. •Monterey Peninsula Foundation has backed out of project.
FOSL 13 – Monterey Horse Park 3 Parcels ~ 340 acres	Not started. Issues: No official request for property yet.
FOSL 14 – Del Rey Oaks/Native Plant Society Habitat Reserve Area 1 Parcel ~ 5 acres	Not started. Issues: No official request for property yet.
FOST 6 – Track 0 Parcels 95 Parcels ~1,223 acres	FOST signed May 27, 2003. 78 parcels transferred by deed (958 acres). Four CRUPs: three for 92 parcels within “Special Groundwater Protection Zone,” one for one parcel restricted from residential use. All have been recorded. Issues: <ul style="list-style-type: none"> •Site 33 – F2.7.2 (already transferred). •Tiger salamander – affected parcels: E11b.1, E11b.2, E11b.3, E11b.4, L20.10.1.1, L20.10.1.2, L20.10.2, L20.14.1.2, L20.19.2, L20.20, L20.21.1, L20.21.2, L20.22, L23.3.1, L23.3.2.1 (not transferred).



Explanation

	FOST-8 Parcels
	FOST-9 Parcels
	Reuse Parcels

Title/Description	Parcels	Comments
<p>FOST 8 Track 0 and Track 0 Plug-in B Parcels 38 Parcels ~ 448 acres (V0/December 2004) GOAL: TRANSFER ALL PARCELS BY AUGUST 2005.</p>	<p>E11a.1, E11b.6.3, E11b.7.2, E18.2.1, E18.2.2, E18.3, E20c.1.2, E20c.2.2, E29b.3, E29e, E2d.3.1, E4.3.1.2, E4.3.2.2, E4.7.1, E4.7.2, E5a.2, E8a.1.1.2, L20.13.1, L20.13.2, L20.13.3, L20.13.4, L20.13.5, L20.19.1.2, L20.7.1, L20.7.2, L20.7.3, L20.7.4, L20.7.5, L23.3.2.2, L23.3.3.2, L3.1, L35.4, L35.5, L5.10.2, S3.2.1, S3.2.2, S4.2.1, S4.2.2, S4.2.3, S4.2.4, S4.3</p>	<p>Internal review complete and Revised Draft FOST in progress.</p> <ul style="list-style-type: none"> •Includes parcels with no evidence of military munitions use. Track 0 ROD complete. •Approval Memorandum for Track 0 Plug-in B parcels in agency review. •Six associated CRUPs: five for groundwater, one for RI Site 31. <p>Issues:</p> <ul style="list-style-type: none"> •Site 31 – East Garrison Dump Site •OU2 Landfills – parcels removed.
<p>FOST 9 Track 0 Plug-in C and Track 1 Parcels 27 Parcels ~1,873 acres (V0/December 2004) GOAL: TRANSFER ALL PARCELS BY SEPTEMBER 2005.</p>	<p>E11a, E11b.6.2, E15.2, E20c.2.1, E2a, E4.1.2.1, E4.1.2.2, E4.1.2.3, E4.3.2.1, E4.6.1, E4.6.2, L20.14.1.1, L20.14.2, L20.15, L20.6, L23.3.3.1, L23.5, L31, L5.6.1, L5.6.2, L9.1.1.2, L9.1.2.2, S3.1.1, S3.1.2, S3.1.3, S3.1.4, S4.1.1</p>	<p>Preliminary Draft complete and in internal review.</p> <ul style="list-style-type: none"> •Includes parcels where military munitions were suspected to have been used, but none were found. Final Track 1 ROD in January 2005. •Approval Memorandum for Track 0 Plug-in C parcels in agency review. •Six associated CRUPs for Special Groundwater Protection Zone. <p>Issues: Site 1, OF-15</p>

Track 0 and Track 1 C ment Schedules

ID	Task Name	Duration	Start	Finish	Predecessors	August	Septemb	October	November	December	January	February	March	April	May	June
1																
2	Track 0 Plug-in B Approval Memorandum (AM)	143 days	Wed 9/29/04	Fri 4/15/05												
3	Preliminary Draft AM	30 edays	Wed 9/29/04	Fri 10/29/04												
4	Internal Review and Comment	7 edays	Fri 10/29/04	Fri 11/5/04	3											
5	Draft AM	14 edays	Fri 11/5/04	Fri 11/19/04	4											
6	Agency Review and Comment	73 edays	Fri 11/19/04	Mon 1/31/05	5											
7	On-Board Review	1 day	Mon 2/14/05	Mon 2/14/05	6FS+10 days											
8	Final AM	5 days	Tue 2/15/05	Mon 2/21/05	7											
9	Public Notice #1	1 day	Fri 2/25/05	Fri 2/25/05	8FS+3 days											
10	Public Review and Comment	31 edays	Fri 2/25/05	Mon 3/28/05	9											
11	Final AM Revision	5 days	Tue 3/29/05	Mon 4/4/05	10											
12	Agency Concurrence Letter	7 edays	Mon 4/4/05	Mon 4/11/05	11											
13	Public Notice #2	1 day	Fri 4/15/05	Fri 4/15/05	12FS+3 days											
14																
15	Finding of Suitability to Transfer (FOST) 8 - Track 0 and Tr	173 days	Wed 9/15/04	Fri 5/13/05												
16	Preliminary Draft FOST	7 edays	Wed 10/20/04	Wed 10/27/04	16											
17	Internal Review and Comment	5 days	Thu 10/28/04	Wed 11/3/04	17											
18	Draft FOST	10 days	Thu 11/4/04	Wed 11/17/04	18											
19	Agency ELD Review and Comment	25 days	Thu 11/18/04	Wed 12/22/04	19											
20	2nd Draft FOST	16 days	Thu 12/23/04	Thu 1/13/05	20											
21	Agency Review and Comment	30 edays	Mon 1/24/05	Wed 2/23/05	21											
22	Draft Final FOST	9 days	Wed 2/23/05	Mon 3/7/05	22											
23	Public Notice #3 (MACTEC)	1 day	Fri 3/11/05	Fri 3/11/05	22FS+3 days											
24	Public Review and Comment	31 edays	Fri 3/11/05	Mon 4/11/05	23											
25	Finalize FOST	10 days	Tue 4/12/05	Mon 4/25/05	24, 13FF											
26	Signature Process	14 edays	Mon 4/25/05	Mon 5/9/05	25											
27	Public Notice #4	1 day	Fri 5/13/05	Fri 5/13/05	26FS+3 days											
28																

Project: TK0-TK1 Schedule 12-04
 Date: Fri 1/7/05

Task Split

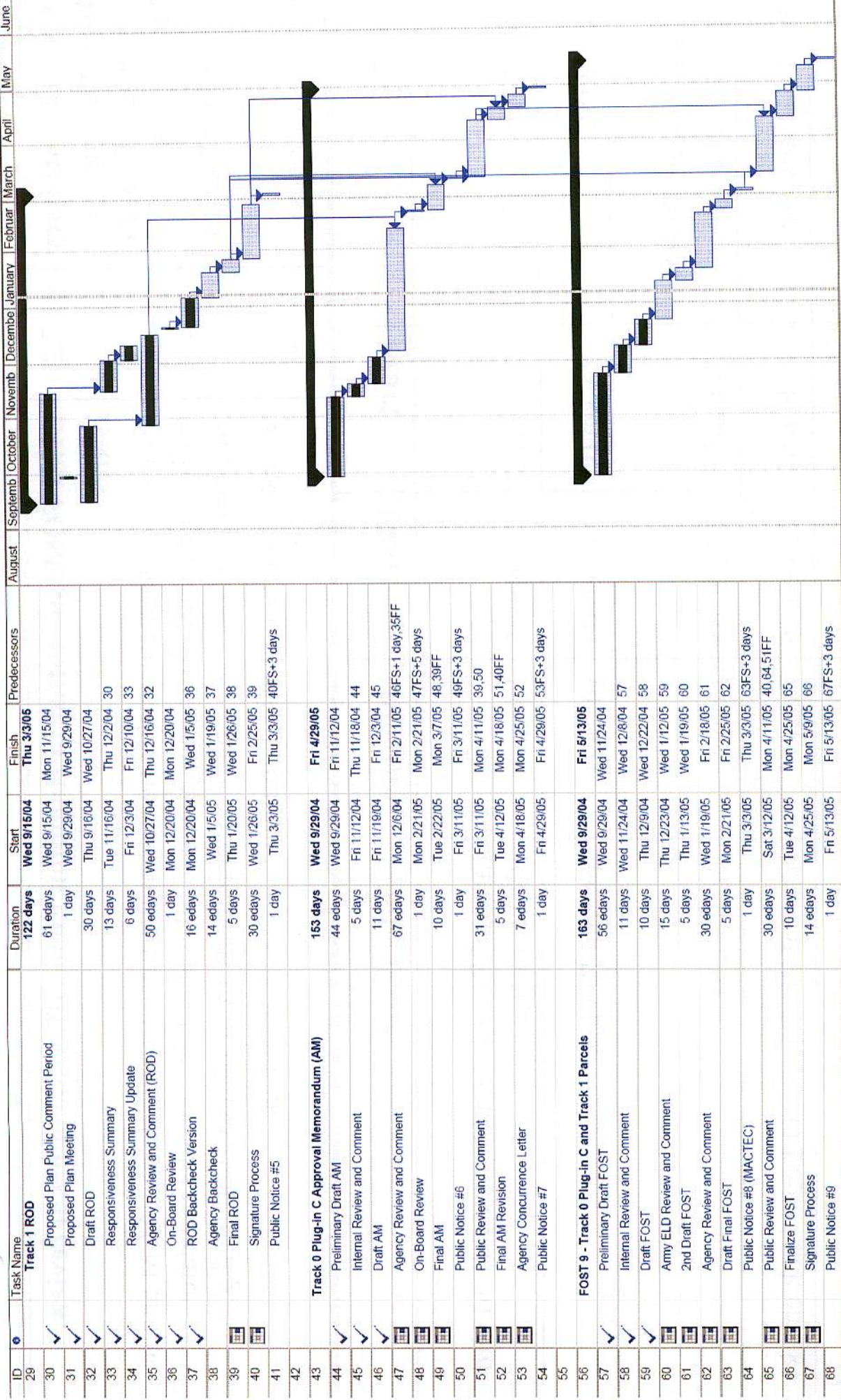
Progress Milestone

Summary Project Summary

External Tasks External Milestone

External Milestone Deadline

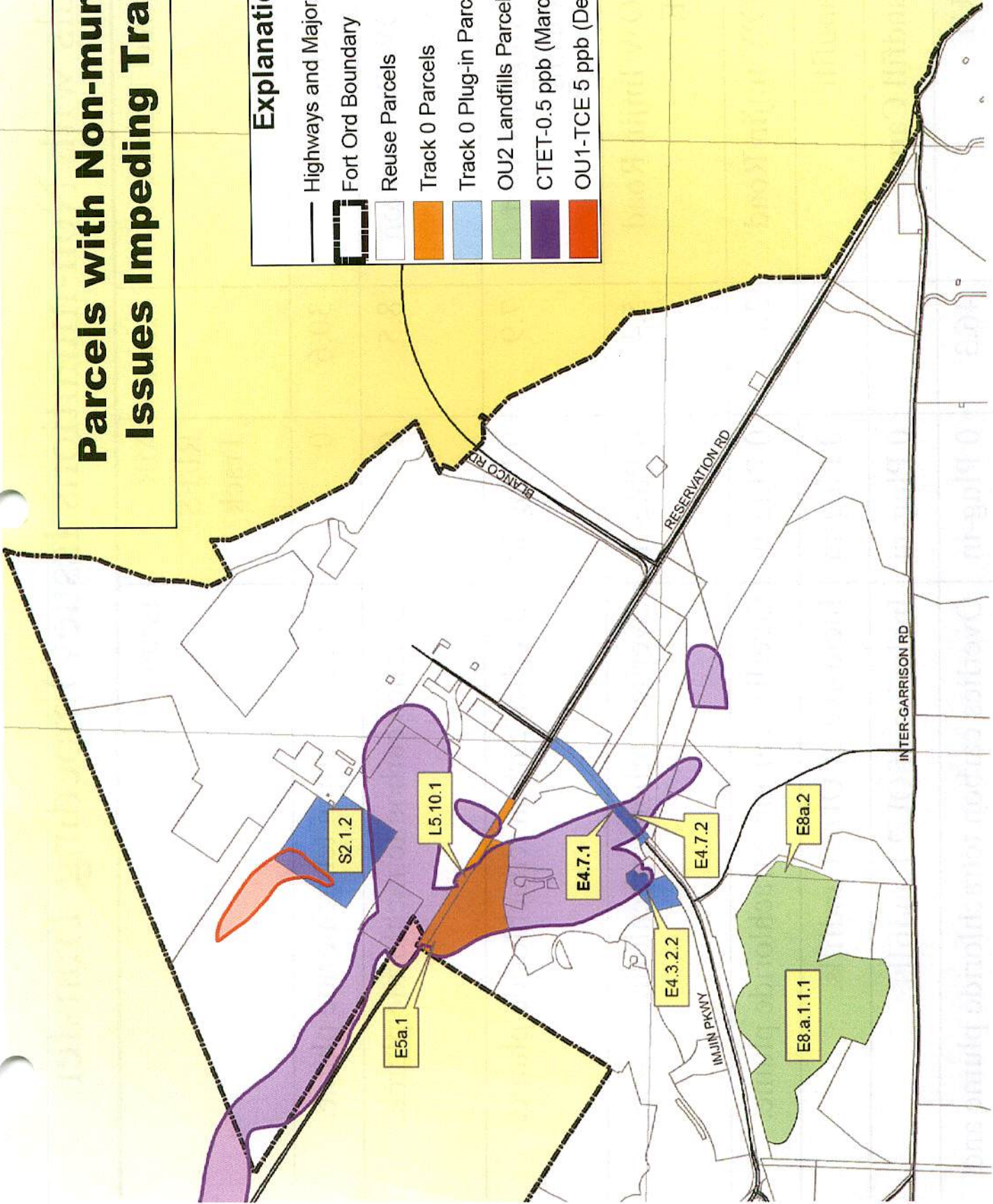
Track 0 and Track 1 Document Schedules



Title/Description	Parcel	Comments		
FOSL 12 – Military Operations on Urbanized Terrain (MOUT) Site 1 Parcel ~ 54 acres (V0/July 2004) (V1/January 2005)	F1.7.2	Draft FOSL submitted to Hampton Field Office for internal review. Issues: <ul style="list-style-type: none"> •Some wood structures that burned in the Eucalyptus Fire had ACM and/or lead-based paint. Army sampled soil 24 November. Results indicate asbestos is NID in soil. Lead concentrations from 24.8 to 1960 mg/kg. •Lease pending biological opinion for tiger salamander. 		
Activity	Start	End	Duration	Predecessor
Internal Review (HFO)	10 Jan 05	24 Jan 05	14 days	Internal Review and Comment (Fort Ord BRAC Office)
Draft FOSL	25 Jan 05	7 Feb 05	14 days	Internal Review
Internal Review (HFO Legal back check)	8 Feb 05	14 Feb 05	7 days	Draft FOSL
Army ELD Review	15 Feb 05	22 Feb 05	7 days	Internal Review (HFO Legal back check)
Draft Final FOSL	23 Feb 05	8 Mar 05	14 days	Army ELD Review
Agency Review	9 Mar 05	7 Apr 05	30 days	Draft Final FOSL
Finalize FOSL	8 Apr 05	21 Apr 05	14 days	Agency Review

Parcels with Non-munitions Issues Impeding Transfer

Explanation	
	Highways and Major Roads
	Fort Ord Boundary
	Reuse Parcels
	Track 0 Parcels
	Track 0 Plug-in Parcels
	OU2 Landfills Parcel (Track 0 Plug-in)
	CTET-0.5 ppb (March 2004)
	OU1-TCE 5 ppb (Dec 2003)



Parcels with Non-munitions Issues Impeding Transfer

COE Number	Parcel Name	Acres	MR RI/FIS Track	Issue
E5a.1	Development	30.6	0	Overlies carbon tetrachloride plume.
L5.10.1	ROW Reservation Road	8.5	0	Overlies carbon tetrachloride plume.
E4.3.2.2	Lexington Court Housing	7.9	0 Plug-in	Overlies carbon tetrachloride plume.
E4.7.1	ROW Imjin Road NE	5.4	0 Plug-in	Overlies carbon tetrachloride plume.
E4.7.2	ROW Imjin Road	3.6	0 Plug-in	Overlies carbon tetrachloride plume.
E8a.1.1.1	Landfill		0 Plug-in	Inclusive of OU2 Landfills.
E8a.2	Landfill Carrot		0 Plug-in	Inclusive of OU2 Landfills.
S2.1.2	OU1	46.3	0 Plug-in	Overlies carbon tetrachloride plume and OU1 trichloroethene plume.

Dec 10, 2004

**Operable Unit 1
Former Fort Ord, California
Proposed Accelerated Project Schedule
Assumptions**

1. The Remedial System Modification Plan will go from draft to final, skipping the draft final as it is assumed all comments will be successfully addressed and incorporated. The Final is considered sufficient to satisfy the 30% submittal.
2. The 60% System Design submittal shall comprise the following documents:
 - a. Final Remedial System Modification Plan,
 - b. Final Drilling, Phase I and II, Field Activity Summary Report (Ph I and II Report),
 - c. Phase III construction drawings and design analysis (well heads, pipeline, and treatment plant) with responses to comments.
3. The Ph I and II Report (60% submittal) shall include the following field data:
 - Well descriptions, diagrams, and well names
 - Surveyed well location map with coordinates table
 - Logs of borings
 - Well data table including statistics, i.e. top of ground elevation, top of screen elevation and interval length, depth to water, total depth etc.
 - Soil sample test results
 - Water sample test results
 - Well development data table
 - Resistivity survey results
 - SVA map
 - TCE contour map based on field work
 - Narrative of environmental and other activities
 - Summary of key findings
4. The 90% System Design submittal shall comprise the following documents:
 - a. Updated 60% submittal, based on review comments,
 - b. Pump test data derived from the Phase III construction activities,
 - c. Field data on one to two new monitoring wells per DTSC request,
 - d. Balance of Construction, Phase III, Field Activity Summary Report.
 - e. Revised simulation modeling results. These runs will confirm the performance of the system, based on the pump tests and other field data. Any required adjustments will be implemented.

5. The 100% System Design submittal shall comprise the updated 90% submittal, based on review comments.
6. Agency review periods are reduced from 60 days to about 30 days or less for the following selected reviews:
 - a. Drilling, Phase II, Work Plan – agency review of response to comments,
 - b. 30% System Design - agency review,
 - c. 100% System Design – agency review,
 - d. Balance of Construction, Phase III, Field Activity Work Plan – agency review,
 - e. Balance of Construction, Phase III, Field Activity Summary Report – agency review.
7. The accelerated schedule provides for the construction of the pipeline and treatment system from late May thru August, 2005 (referred to as Balance of Construction, as the wells were previously placed during Phases I and II). With these features in place, 72-hour pump tests can be performed on all of the appropriate wells combined with monitoring water levels weekly for at least two months. The pump test data will then be fed into the simulation model in the 90% design. Without a conveyance and treatment system, pump tests of the wells, as proposed for the basic schedule, would be restricted to step rate drawdown or short term pump tests. This would be the case because all pumped water would have to be collected and transported by water truck to the existing GWETS, which is a very small system. Driving heavy trucks on the narrow, sandy roads without getting stuck is difficult at best and the heavy truck traffic will likely cause damage to the Fort Ord Natural Reserve. The potential damage to the identified endangered and threatened species may cause restrictions to be imposed by the environmental stakeholders.
8. Any modifications to the system identified by the 90% simulation modeling will be implemented. It is assumed any such modifications will be minimal as the treatment and piping systems are purposely over designed.

Fort Ord Deliverable Matrix

Project	Deliverable	Issue Date	Issued to	Agency Comments Received	Date RTC Sent	Approved Date
1	Draft Project Management Plan	6-Jan-2004	USACE	David Eisen - 1/28/04 Derek Lieberman - 1/28/04 Gail Youngblood - 1/30/04 William K. Collins 1/30/04	1/30/2004	
	Final Project Management Plan	10-Feb-2004	USACE			
2	Draft Waste Management and Minimization Plan	10-Feb-2004	USACE	Derek Lieberman - 4/14/04	Not applicable (NA)	
	Final Waste Management and Minimization Plan	15-Jul-2004	USACE			
3	Draft Guaranteed Fixed Price Remediation Contract Coordination Plan	10-Feb-2004	USACE	Derek Lieberman - 4/14/04	NA	
	Final Guaranteed Fixed Price Remediation Contract Coordination Plan	15-Jul-2004	USACE			
4	Draft Security/Emergency Response/Contingency Plan for OUI	10-Feb-2004	USACE	Derek Lieberman - 4/14/04	NA	
	Final Security/Emergency Response/Contingency Plan for OUI	15-Jul-2004	USACE			

Fort Ord Deliverable Matrix

Project	Deliverable	Issue Date	Issued to	Agency Comments Received	Date RTC Sent	Approved Date
5	Draft SAP OUI FAAF Fire Drill Area	25-Feb-2004	USACE DTSC EPA RWQCB Interested Parties	DTSC - 6/7/04 EPA - 4/27/04 RWQCB - 3/12/04	Jun-04	EPA - 6/24/04
	Final SAP OUI FAAF Fire Drill Area	15-Jul-2004	USACE DTSC EPA RWQCB Interested Parties			
6	Draft O&M Manual Addendum, OUI GW Extraction Treatment System, FAAF Fire Drill Area	25-Feb-2004	USACE DTSC EPA RWQCB Interested Parties	RWQCB - No comments - 4/6/04 DTSC - No comments - 5/3/04	NA	
	Final O&M Manual Addendum, OUI GW Extraction Treatment System, FAAF Fire Drill Area	9-Jul-2004	USACE DTSC EPA RWQCB Interested Parties			
7	Draft SSHP, FAAF Fire Drill Area	25-Feb-2004	USACE DTSC EPA RWQCB Interested Parties	DTSC - No comments - 5/3/04 RWQCB - deferred to DTSC	NA	
	Final SSHP, FAAF Fire Drill Area	15-Jul-2004	USACE DTSC EPA RWQCB Interested Parties			

Fort Ord Deliverable Matrix

Project	Deliverable	Issue Date	Issued to	Agency Comments Received	Date RTC Sent	Approved Date
8	Draft QA Management Plan, OU1 FAAF Fire Drill Area	25-Feb-2004	USACE DTSC EPA RWQCB Interested Parties	DTSC - No comment - 5/3/04 RWQCB - deferred to DTSC	NA	
	Final QA Management Plan, OU1 FAAF Fire Drill Area	9-Jul-2004	USACE DTSC EPA RWQCB Interested Parties			
9	Draft Data Management Plan, OU1	25-Feb-2004	USACE DTSC EPA RWQCB Interested Parties	DTSC - No comments - 5/3/04 RWQCB - deferred to DTSC	NA	
	Final Data Management Plan, OU1	9-Jul-2004	USACE DTSC EPA RWQCB Interested Parties			
10	Tech Memo Conceptual System Modification Plan, OU1	2-Apr-2004	USACE DTSC EPA RWQCB	DTSC - 6/7/04 Comments incorporated into Draft Remedial System Modification Plan	NA	
11	Work Plan, Phase I Drilling for Plume Delineation and Hydrogeologic Testing	11-Jun-2004	USACE DTSC EPA RWQCB	RWQCB - 6/18/04		

Fort Ord Deliverable Matrix

Project	Deliverable	Issue Date	Issued to	Agency Comments Received	Date RTC Sent	Approved Date
12	Draft OU 1 1st Quarter Groundwater Monitoring Report	9-Jul-2004	USACE DTSC EPA RWQCB Interested Parties	DTSC - 10/5/04		
	Final OU 1 1st Quarter Groundwater Monitoring Report	October-04	USACE DTSC EPA RWQCB Interested Parties			
13	Draft Remedial System Modification Plan	15-Jul-2004	USACE DTSC EPA RWQCB Interested Parties	EPA, RWQCB, DTSC - 10/18/04	Scheduled 12/21/04	
	Final Remedial System Modification Plan					
14	Phase II Work Plan Addendum	22-Sep-2004	USACE DTSC EPA RWQCB	9/30/04 (HGL operated on verbal not to stop)		
15	Draft OU 1 2nd Quarter Groundwater Monitoring Report	6-Oct-2004	USACE DTSC EPA RWQCB Interested Parties			
	Final OU 1 2nd Quarter Groundwater Monitoring Report					
16	Draft Modified Pump & Treat System Construction Report					

Fort Ord Deliverable Matrix

Project	Deliverable	Issue Date	Issued to	Agency Comments Received	Date RTC Sent	Approved Date
17	Draft Interim Remedial Action Report, OUI					
	Final Interim Remedial Action Report, OUI					
18	Operational and Functional/Modified Remedy in Place, OUI					
	Draft 5-Year ROD Review, OUI					
19	Final 5-Year ROD Review, OUI					
	Draft Response Complete Report, OUI					
20	Final Response Complete Report, OUI					
	Draft OU 1 3rd Quarter Groundwater Monitoring Report					
21	Final OU 1 3rd Quarter Groundwater Monitoring Report					
	Draft Remedy Assessment Report, OUI					
22	Final Remedy Assessment Report, OUI					

Fort Ord Deliverable Matrix

Project	Deliverable	Issue Date	Issued to	Agency Comments Received	Date RTC Sent	Approved Date
23	Draft Annual Update to Plans 2005, OUI					
	Final Annual Update to Plans 2005, OUI					
24	Draft Annual Update to Plans 2006, OUI					
	Final Annual Update to Plans 2006, OUI					
25	Draft Site Restoration Plan, OUI					
	Final Site Restoration Plan, OUI					
26	Draft Annual Update to Plans 2007, OUI					
	Final Annual Update to Plans 2007, OUI					