HTW BCT Meeting BRAC Conf. Room

Item	Action	Comment
Operable Unit Carbon Tetrachloride Plume	Status Update	
Operable Unit Carbon Tetrachloride Soil Gas	Status Update	
Emergent Chemicals	Status Update	
OU1 Groundwater Remediation	Status Update	
OU2 and 2/12 Treatment Systems	Status Update	
2 nd Avenue Project	Status Update	
FFA Schedule	Update	- OU1 Status - BW Status
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	
FOST/FOSL/FOSET Issues	Status Update	
Open House	Update	
Calendar	Update	

SUBJECT: HTW - BCT Meeting February 20, 2004 **BRAC Conference Room** 1:00 p.m.

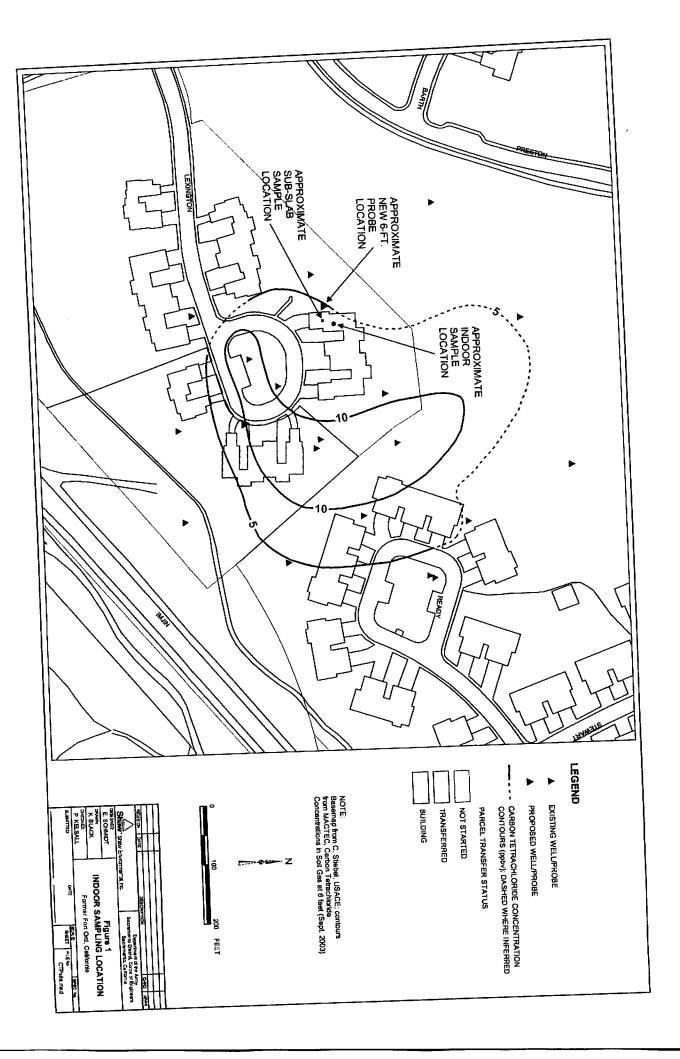
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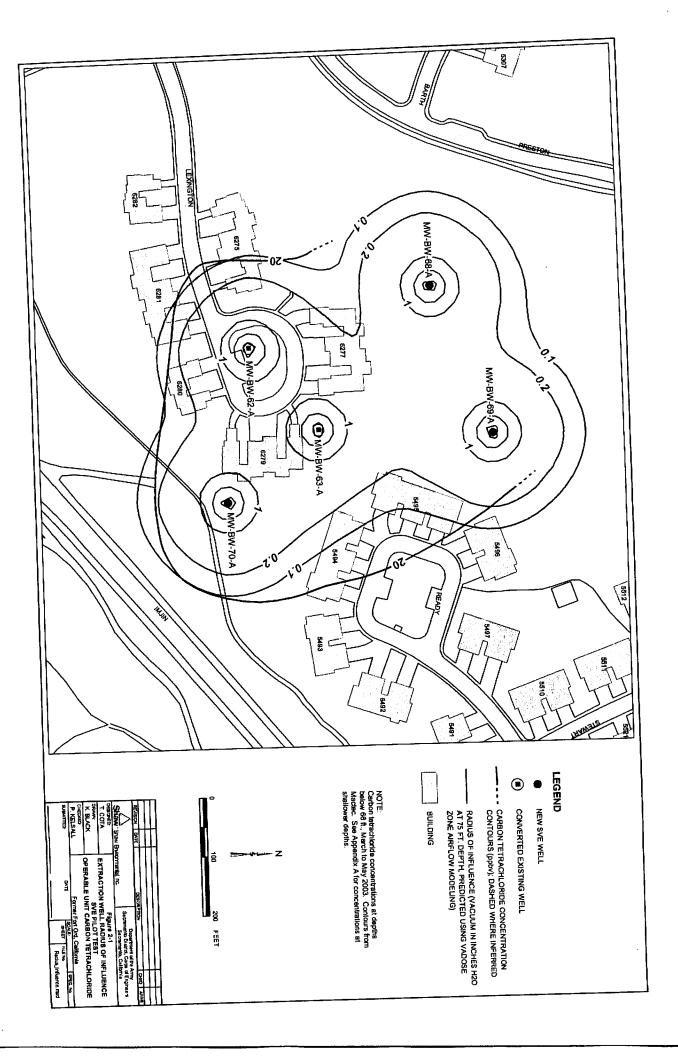
282 3 Claire Trombadore **Grant Himebaugh** John Christopher Gail Youngblood Derek Lieberman John Chesnutt Roman Racca Glen Mitchell George Siller Peter Kelsall David Eisen **Ed Ticken** Name Shaw E & I, Inc Fort Ord BRAC Organization MACTEC E&C MACTEC E&C Fort Ord BRAC U.S. EPA U.S. EPA RWQCB DTSC DTSC COE COE COE 831/884-9925 ext. 232 831/883-5810 ext. 810 916-255-6407 916/557-7774 or 415/972-3013 415/972-3005 916/557-7418 805/542-4636 831/242-7918 831/242-4873 831/393-9692 415/884-3176 415/884-3276 Phone gail.youngblood@monterey.army.mil Derek.Lieberman@monterey.army.m George.L.Siller@usace.army.mil Glen.Mitchell@usace.army.mil Ghimebau@rb3.swrcb.ca.gov Trombadore.Claire@epa.gov David.Eisen@usace.army.mil Peter.Kelsall@shawgrp.com Chesnutt.john@epa.gov JChristo@dtsc.ca.gov Rracca@dtsc.ca.gov ejticken@mactec.com cmerey@mactec.com E-mail address

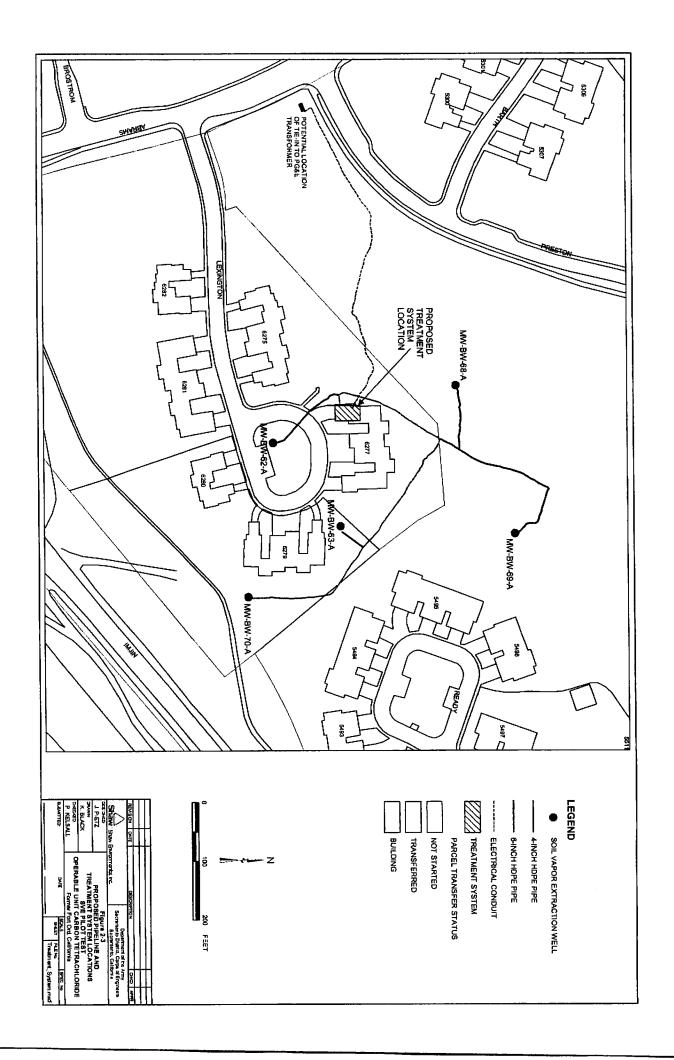
Carlene Merey

SUBJECT: HTW - BCT Meeting February 20, 2004 1:00 p.m. BRAC Conference Room

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		Stuart Black	ing time	Kris Escarda	David Smith	John Guenza	Michael Taraszki	Marc Edwards	Name
		DISC		DTSC	HydroGeologic, Inc	Ahtna	MACTEC E&C	COE	Organization
				916/255- 3651	916/614-8770	707/553-1501	415/884-3325	831/884-9925 ext 244	Phone
				kescarda@dtsc.ca.gov	dsmith@hgl.com	jguenza@ahtnagov.com	mdtaraski@mactec.com	Marc.A.Edwards@usace.army.mil	E-mail address







Draft FFA Timetable OU-1, Former Fort Ord

Primary Documents	Current Deadlines	Deadline Revision Rationale
Deliverable/Event	(Previous Deadlines)	
 Draft Plans Sampling and Analysis Plan (SAP) Includes LTM SAP and RA SAP Operation and Maintenance 	2/04	
(O&M) Plan Addendum		
Comments due	4/04	
Draft Final Plans	5/04	
Draft Remedial System Modification Plan	5/04	See Conceptual System Modification Plan Technical Memorandum and Remedial Action Design Progress Reports under Secondary Documents below.
Comments due	7/04	
Draft Final RSMP	8/04	
Modified Pump & Treat System Construction	8/04 to 12/04	Construct system in Fall 2004, prior to the wet season, to mitigate potential off-site plume migration and potential physical impacts to the UCNRS habitat at OU-1.
Draft Interim Remedial Action (IRA) Report	2/05	
Comments Due	4/05	
Draft Final IRA Report	5/05	
Operational and Functional/Modified Remedy in Place	6/05	
5-Year ROD Review	1/07	
Comments Due	3/07	
Draft Final 5-Yr Review	5/07	
Draft Response Complete Report	3/10	
Comments due	6/10	
Draft Final Response Complete Report	7/10	

Secondary Documents	Current Deadlines	Deadline Revision Rationale
Deliverable/Event	(Previous Deadlines) 2/04	
Draft Plans	2/04	
Health and Safety Plan (HSP) Outlity Assumes Management		
Quality Assurance Management Plan (OAP)		
Plan (QAP)		
Data Management Plan (DMP) Comments due	4/04	
Draft Final/Final Plans	5/04	
Draft Final/Final Flans	3704	
Conceptual System Modification Plan Technical Memorandum	3/04	Solicit early design input from regulators and other stakeholders (e.g. UCNRS) for discussion at BCT meetings.
Draft Remedy Assessment Report (RAR)	1/07	Remedy Assessment to be conducted between 6/06-12/06 following modified Pump and Treat System evaluation period. (Replaces Focused Feasibility Study [FFS]).
Comments due	3/07	3/
Draft Final RAR	5/07	
D 6 4 11 1 4 D 2007	10/04	
Draft Annual Update to Plans 2005	10/04	
Comments due	12/04	
Draft Final Update to Plans 2005	1/03	
Draft Annual Update to Plans 2006	10/05	
Comments due	12/05	
Draft Final Update to Plans 2006	1/06	
Draft Site Restoration Plan	2/06	
Comments due	4/06	
Draft Final Site Restoration Plan	5/06	
	10/06	
Draft Annual Update to Plans 2007	10/06	
Comments due	12/06	
Draft Final Update to Plans 2007	1/07	

BCT Meeting OU-1 Agenda, HydroGeoLogic, Inc. February 20, 2004

OU-1 Groundwater Remediation Status Update

- Planning Documents
 The following plans are in preparation:
 - o Draft Sampling and Analysis Plan
 - o Draft Site Safety and Health Plan
 - o Draft Quality Assurance Management Plan
 - o Draft Data Management Plan
 - o Draft Operation and Maintenance Plan Addendum

The following plans have been submitted for internal purposes:

- Final Project Management Plan
- o Draft GFPR Coordination Plan
- o Draft Security Emergency Response Contingency Plan
- o Draft Waste Management and Minimization Plan

Remedial System Modification

o Premise

Because future modification of the existing remediation system was included in the 1995 OU-1 ROD, modifications needed to capture and treat the entire plume can be categorized as being within the current remedy scope of the ROD.

- O HGL is developing a Conceptual System Modification Plan Technical Memorandum to solicit early regulator feedback in order to determine whether or not further regulatory documentation will be required prior to the planning and construction of the modified P&T system.
- HGL is also developing a Natural Resources Plan (Technical Memorandum) to solicit early input from the UCNRS stakeholders to address habitat impact concerns prior to development of more formal design documents.

OU-1 GWETS

HGL assumed the operation and maintenance of the OU-1 system on January 1, 2004. An HGL technician has performed weekly visits since January 14, 2004. A summary report is attached for review of system performance, gauge measurements, and updated volumes of treated water. Samples of influent, intermediate (between GAC vessels), and effluent process water were collected

on 18 February. Analytical results are pending. No problems have been encountered to date.

LTM
 HGL assumed the long term monitoring of OU-1 groundwater on January 1,
 2004. The first quarter sampling is scheduled for March 2004. Based on a review
 of site data, HGL has submitted a Technical Memorandum for regulatory review
 which requests some changes to the current frequency of sampling and analysis of
 OU-1 monitoring wells.

FFA Schedule OU-1 Status Update

• Revised Draft OU-1 FFA schedule attached.

Former Fort Ord Groundwater Treatment Systems Operational Data

Project	: જિલ્લાનું આ પ્ર	Saus/Vodate
OU-2	The feet of the second of the	
	والمراجعة	The state of the s
	<u>O & M</u>	Stats for the month of January (1-03-04to 1-30-04) Plant operating at 665 gpm (avg.) Average influent concentration of 10.1ppb (TCE) 33.983 million gallons treated Cumulative Stats: 2.624 billion gallons of water treated
Sites 2/12	ALL DESCRIPTIONS OF THE PROPERTY OF THE PROPER	secks 000 @ 800
	<u>O & M</u>	Stats for the month of January (1-03-04 to 1-30-04) Plant operating at 250 gpm (avg.) Average influent concentration of 16.5ppb (TCE) 10.04 million gallons treated Cumulative Stats: 589.732 million gallons of water treated

Title/Description

PARCELS

Comments

FOST 1 through FOST 5

Parcels have been or will be incorporated into more recent transfer/lease documents.

Not completed and are now obsolete.

FOST 6:1 Track:0 Parcels (Version 0/October 2001) (Version 0.1/January 2002) 高端 美洲

E11b:1, E11b.2, E11b:3, E11b.4, E15.1, 1 E2b.1.1.1, E2b.1.1.2, E2b.1.2, E2b.1.3, published and deeds in the process of being E2b.1.4, E2b.1.5, E2b.2:1, E2b.2:2, E2b:2:3; recorded. "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, **CRUP for parcel F2.7.2 Site 33 was sent to E2c.4.2.1 E2d.1 E2d.2 E2e.1 E2e.2 E4.5 agencies for signature /12/31/03 (Version 1/August 2002) | E8a 12, E8a 13, E8a 14 E8a 15, F2.7.2** (Version 1.1/March 2003) | F72, L1 11 L12.2 L1 L2.3, L12.3, L15 1 (Version 2.0/May 2003) L19.2, L19.3, L19.4, L2.21, L20.9, L20.10 1.1, L20.10 1.2, L20.10 1.2, L20.10 2, L20.10 3, L20.14 1.2. L2016.1, L2016.2, L2016.3, L2017.1, L2019.2, L20.20, L20.21, L20.21, L20.21, L20.21, L20.21, L23.1, L23.1, L23.1, L23.1, L23.1, L23.3, 4L32.2.2, 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% L5.8.2.1 L7.9, S1 3.3, S1 5.1.2, S2.1.4.2 +S4.1.2.1

Signed May 27, 2003. Public Notice

CRUP for remaining parcels in progress.

FOST 7 🅸 Brostrom Park (V.1/October 2002) (V1.2/November 2002) (V2/January 2003)

\$41.2.2,\$4.1.3*\$4.1.4.\$4.1.5

Signed January 9, 2003. Deed recorded. Public Notice published 1/31/03. (Parcel extracted from Track 0 FOST after public review period completed, No public comments on Track 0 FOST were received regarding parcel (27.)

FOST 8 (proposed) Track 1 Parcels

E11b.6, E15.2, E2a, E20.c.2.1, 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, L20.2.3.2, L20.6, L23.3.3, 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, S3.2.1, S3.2.2, S4.1.1

Not drafted yet. Parcels are proposed to be included in the Track 1 ROD process.

FOST/FOSL/FOSET Status Update

Title/Description	PARCELS	Comments
FOSET 1 FAAF Phase II	L5.1.1-10, L5.2, L5.3	FOSET and CRUP signed. Public Notice published 7/2/01, Agencies provided copy.
FOSET 2 Housing Areas and Former Garrison (Category B parcels) (V.1/Oct 25, 1999) (FOSET B March 2000) (Final December 2000) (Final January 2001) (Final Revised August 2001) (Final-Final December 2001)	L2.1, E4.1.1, E4.2, E4.3.1, L2.4.2, L2.4.3.1, L2.4.3.2, L32.4.1.2, L37, S1.3.1, S1.5.2, S1.4, S1.5.1.1, E17, S2.1.3, S2.1.4.1, S2.5.1.1, S2.5.1.2, S2.5.2.1, S2.5.2.2	FOSET signed by TRADOC Dec 3, 2001. FOSET packet approved by EPA 1/4/02. Governor's concurrence received circa 4/23/02. CRUP and deeds being recorded? Public Notice ran in newspapers 7/18/02.
FOSET 3	Parcels have been or will be incorporated into more recent transfer/lease documents.	Not completed and is now obsolete.
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)	E29a, E31a, E31b, E31c, E36, E29b.1	FOSET 4 and responses to public comments were revised and resubmitted to DTSC in October per DTSC comments. In Dec '03 a small portion ("Habitat Area") of Parcel E29a was carved out and will be retained by the Army at this time. New portion is now parcel E29a.1

FOST/FOSL/FOSET Status Update

Title/Description	PARCELS	Comments
FOSL 3, FOSL 6 and FOSL 7 FOSL 1 Lightfighter Lodge (V.2/Apr 2000)	Parcels have been or will be incorporated into more recent transfer/lease documents. E17	Not completed and are now obsolete. FOSL signed 6/22/00 Public Notice published 9/29/00. Agencies provided copy. Amendment to Preston Park Housing Lease completed Sept 2001. E17 see FOSET 2
FOSL 2 Abrams Housing (V.2/May 19, 2000)	E4.3.2.1 , E4.3.2.2, Part of E4.3.1	FOSL signed 7/7/00 Public Notice published 9/29/00. Agencies provided copy. Amendment to Preston Park Housing Lease completed Sept 2001. E4.3.2.1 see FOSET 3
FOSL 4 York School (V.0/Aug 7, 2000) (V1.1/Nov 27, 2000) (V2/Dec 21, 2000)	31 acres plus 2.3 acre sliver (not including South Boundary Road)	FOSL signed 3/9/01. Statement of Clearance signed, original on file at DENR Public Notice published 7/2/01. Agencies provided copy. Lease signed 9/14/01.
FOSL 5 Imjin Shoppette (V1.0/Sept 25, 2000) (V2.0/Jan 11, 2001) (V2.1/Feb 2, 2001)	approximately 3 acres, including buildings 6160, 6161, 6165A within a portion of parcels E8a.1 and E4.6.2	FOSL signed 4/30/01. Public Notice published.7/2/01. Agencies provided copy. Lease signed 6/18/01.
FOSL 8 FORA Expansion FOSL (V0/May 2001) (V2/July 2001)	Building:2925 and parking lot within parcel E2b1.1.1, and parcel L35.1	FOSL signed 8/20/01. Agencies provided copy. Public notice published 7/15/02. 1 Amendment to existing FORA Outgrant Lease completed Jan 31, 2002.
FOSL 9 First Tee Youth Golf Course	approximately 120 acres in parcels E20c.1.1.1 and E20c.1.1.2	Preliminary draft in progress.
FOSL 10 Granite Construction Batch Plant	approximately 6 acres near intersection of 8th Street and Gigling	Not drafted yet. Still being considered.
FOSL 11 Veterans Transition Center Phase II Parcels (V0/August 2002) (V1/October 2002) (V2/January 2003)	Buildings 8732 - 8735 in parcel L9.1.2.2 Buildings 8714 - 8719 in parcel L9.1.1.2	FOSL signed 7/29/03. Agencies provided link to PDF online. Public notice published 8/21/03.

OU CTP RI/FS Update Former Fort Ord February 20, 2004



OU CTP Remedial Investigation Update

- > On-going work
 - Soil gas investigation
 - o Agreement to sample indoor air and new shallow soil gas probe (Shaw)
 - Summary of previous investigation sent to Shaw for inclusion into SVE Work Plan
 - SVE tentatively scheduled to begin operation in March 2004
 - Bio-treatability pilot study
 - Bench-scale/microcosm test results; initial, t=6 weeks, and t=12 weeks sample results indicate that lactate is the most effective electron donor (42% reduction), followed by soybean oil (25% reduction) and molasses (14% reduction). Color change to black in lactate microcosms indicate that anoxic or highly reduced conditions were achieved.
 - Fourth/final sample (t=19 weeks) results under review; indicate that lactate is most effective donor. Total anaerobic heterotrophs counts will also be measured to compare microbial population growth - haven't seen those results yet.
 - Currently anticipating initiating a lactate electron donor field program to begin in March 2004 and continue for at least three months
 - Groundwater model and RI/FS reports
 - o Groundwater model construction underway (transient, 3D mass transport model); may incorporate vapor data to assist in source term assumptions
 - Due to unknowns concerning duration of the SVE and Bio-Treatability pilot studies, Army will submit the Preliminary Draft RI and FS reports separately (FS to follow); strive to adhere to the FFA schedule (Draft due in 10/04).

> Plume Delineation

- O A-Aquifer quarterly data confirm that the CT is present off-site beneath the city of Marina (concentrations of about 2-3 μg/L at MW-BW-49-A and MW-BW-65-A along DeForest Avenue). December data still indicates only low concentrations of CT at the new source area wells (MW-BW-61-A through MW-BW-64-A) although concentrations have increased from ND at MW-BW-62-A (still ND at MW-BW-61-A); 62-A and 63-A will be converted to soil vapor extraction wells (no samples will be collected during SVE testing).
- O Upper 180-Foot Aquifer two narrow plumes emanating from two discrete vertical conduits, confirmed by results from upgradient wells MW-BW-54-180 and MW-BW-55-180. Conduits appear to include MW-B-13-180 and possibly the mini-storage well. Downgradient data indicate that at least the eastern plume commingles with the OU 2 plume at/beneath MW-OU2-61-180
- O Lower 180-Foot Aquifer highest concentrations continue to be defined by the mini-storage well and its immediate vicinity. PCE in December 2003 only present at low concentrations (0.25 ppb) at MP-BW-37-303; not detected in port with initial highest concentrations (7.3 ppb at MP-BW-37-328). Apparently lithology containing PCE was penetrated by drilling but not screened by Westbay port.

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