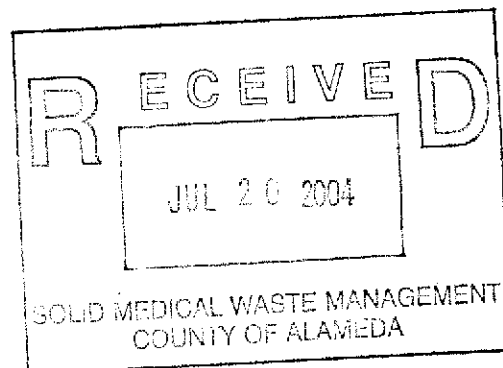


TRC
Customer-Focused Solutions



July 14, 2004

ConocoPhillips Company
76 Broadway
Sacramento, CA 95818

ATTN: MR. THOMAS H. KOSEL

SITE: FORMER 76 STATION 0843
1629 WEBSTER STREET
ALAMEDA, CALIFORNIA

RE: QUARTERLY MONITORING REPORT
APRIL THROUGH JUNE 2004

Dear Mr. Kosel:

Please find enclosed our Quarterly Monitoring Report for Former 76 Station 0843, located at 1629 Webster Street, Alameda, California. If you have any questions regarding this report, please call us at (949) 753-0101.

Sincerely,

TRC

Anju Farfan
QMS Operations Manager

CC: Ms. Eva Chu, Alameda County Dept., of Environmental Health
Mr. Jed Douglas, Miller Brooks Environmental, Inc.

Enclosures
20-0400/0843R03.QMS



Customer-Focused Solutions

**QUARTERLY MONITORING REPORT
APRIL THROUGH JUNE 2004**

Former 76 Station 0843
1629 Webster Street
Alameda, California

Prepared For:

Mr. Thomas H. Kosel
CONOCOPHILLIPS COMPANY
76 Broadway
Sacramento, California 95818

By:



Senior Project Geologist, Irvine Operations
July 14, 2004



QUARTERLY MONITORING REPORT

LIST OF ATTACHMENTS	
Summary Sheet	Summary of Gauging and Sampling Activities
Tables	Table Key Table 1: Summary of Groundwater Levels and Chemical Analysis Results Table 2: Historic Groundwater Levels and Chemical Analysis Results Table 3: Summary of Additional Chemical Analysis Results
Figures	Figure 1: Vicinity Map Figure 2: Groundwater Elevation Contour Map Figure 3: Dissolved-Phase TPPH Concentration Map Figure 4: Dissolved-Phase Benzene Concentration Map Figure 5: Dissolved-Phase MTBE Concentration Map
Graphs	Benzene Concentrations vs. Time Hydrographs
Field Activities	General Field Procedures Groundwater Sampling Field Notes
Laboratory Reports	Official Laboratory Reports Quality Control Reports Chain of Custody Records
Statements	Purge Water Transportation and Disposal Limitations

Summary of Gauging and Sampling Activities
April 2004 through June 2004
Former 76 Station 0843
1629 Webster Street
Alameda, CA

Site Information:

Site:	Former 76 Station 1629 Webster Street Alameda, CA
Project Coordinator/Phone Number:	Thomas Kosel/916-558-7666
Groundwater wells onsite:	4
Groundwater wells offsite:	2

Field Activity:

Sampling consultant:	TRC
Date(s) sampled:	06/07/04
Groundwater wells gauged:	6
Groundwater wells sampled:	4
Purging method:	diaphragm pump/bailer
Treatment/disposal method during sampling event:	Onyx/Rodeo Unit 100
Free product pumpouts other than sampling event:	No
Treatment/Disposal method during free product pumpouts:	N/A

Site Hydrogeology:

Minimum depth to groundwater (feet bgs):	5.35
Maximum depth to groundwater (feet bgs):	6.61
Average groundwater elevation (feet relative to mean sea level):	9.01
Average change in groundwater elevations since previous event (feet):	-0.47
Groundwater gradient and flow direction:	0.005 ft/ft, northeast
Previous gradient and/or flow direction (and date):	0.005 ft/ft, North (02/12/04)

Groundwater Condition (Benzene Maximum Contaminant Level [MCL] = 1.0 µg/l)

Wells with benzene concentrations below MCL:	4
Wells with benzene concentrations at or above MCL:	0
Minimum benzene concentration (µg/l):	ND
Maximum benzene concentration (µg/l):	0.8
Minimum MTBE concentration (µg/l):	ND
Maximum MTBE concentration (µg/l):	2900 (MW-6)
Minimum TPH-G concentration (µg/l):	ND
Maximum TPH-G concentration (µg/l):	2500 (MW-6)
Groundwater wells with free product:	0
Minimum free product thickness (feet):	0
Maximum free product thickness (feet):	0

Additional Information:

MW-1=Monitored Only, MW-3=Monitored Only.

This report presents the results of groundwater monitoring and sampling activities performed by TRC. Please contact the primary consultant for other specific information on this site.

TABLES

TABLE KEY

ABBREVIATIONS / SYMBOLS

LPH	=	liquid-phase hydrocarbons
µg/l	=	micrograms per liter
mg/l	=	milligrams per liter
ND	=	not detected at or above laboratory detection limit
DTSC	=	Department of Toxic Substances Control
N/A	=	not applicable
Trace	=	less than 0.01 foot of LPH in well
USTs	=	underground storage tanks
--	=	not analyzed, measured, or collected
TPH-G	=	total petroleum hydrocarbons with gasoline distinction
BTEX	=	benzene, toluene, ethylbenzene, and total xylenes
TPH-D	=	total petroleum hydrocarbons with diesel distinction
TRPH	=	total recoverable petroleum hydrocarbons
MTBE	=	methyl tertiary butyl ether
TAME	=	tertiary amyl methyl ether
ETBE	=	ethyl tertiary butyl ether
DIPE	=	di-isopropyl ether
TBA	=	tertiary butyl alcohol
1,1-DCA	=	1,1-Dichloroethane
1,2-DCA	=	1,2-Dichloroethane
1,1-DCE	=	1,1-Dichloroethene
1,2-DCE	=	cis- and trans-1,2-Dichloroethene
PCE	=	tetrachloroethene
TCA	=	trichloroethane
TCE	=	trichloroethene
PCB	=	polychlorinated biphenyls
TPPH	=	total purgeable petroleum hydrocarbons

NOTES

Elevations are in feet above mean sea level.

Groundwater elevation for wells with LPH is calculated as follows:

$$\text{Surface elevation} - \text{depth to water} + (0.75 \times \text{LPH thickness}).$$

Concentration Graphs have been modified to plot non-detect results at the reporting limit stated in the official laboratory report. All non-detect results prior to the Second Quarter 2000 were plotted at 0.1 µg/l for graphical display.

J = estimated concentration, value is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL)

REFERENCE

TRC began groundwater monitoring and sampling activities in October 2003. Historical data for Former 76 Station 0843 was provided by Gettler-Ryan Inc., Dublin, California, in an excel table received in September 2003.

Table 1
SUMMARY OF GROUNDWATER LEVELS AND CHEMICAL ANALYSIS RESULTS
June 7, 2004
Former 76 Station 0843

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-1	(Screen Interval in feet: 4.5-20.5)													
06/07/04	16.18	6.61	0.00	9.57	-0.59	--	--	--	--	--	--	--	--	Monitored Only
MW-2A	(Screen Interval in feet: 5-11.5)													
06/07/04	15.56	6.21	0.00	9.35	-0.53	94	--	0.80	1.2	2.1	9.1	4.5	3.7	
MW-3	(Screen Interval in feet: 5.0-20.0)													
06/07/04	15.11	5.92	0.00	9.19	-0.41	--	--	--	--	--	--	--	--	Monitored Only
MW-4	(Screen Interval in feet: 5.0-20.5)													
06/07/04	15.17	5.82	0.00	9.35	-0.56	ND<50	--	ND<0.3	ND<0.3	ND<0.3	ND<0.6	ND<1	--	
MW-5	(Screen Interval in feet: 5-20)													
06/07/04	13.34	5.35	0.00	7.99	-0.33	ND<50	--	ND<0.3	ND<0.3	ND<0.3	ND<0.6	ND<1	--	
MW-6	(Screen Interval in feet: 5-20)													
06/07/04	14.08	5.45	0.00	8.63	-0.39	2500	--	ND<3	ND<3	ND<3	ND<6	3200	2900	

Table 2
HISTORIC GROUNDWATER LEVELS AND CHEMICAL ANALYSIS RESULTS

March 1999 Through June 2004

Former 76 Station 0843

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-1 (Screen Interval in feet: 4.5-20.5)														
06/03/99	16.18	6.24	0.00	9.94	--	ND	--	ND	ND	ND	ND	ND	ND	
09/02/99	16.18	7.19	0.00	8.99	-0.95	ND	--	ND	ND	ND	ND	ND	ND	
12/14/99	16.18	8.07	0.00	8.11	-0.88	ND	--	ND	ND	ND	ND	ND	--	
03/14/00	16.18	5.47	0.00	10.71	2.60	ND	--	ND	ND	ND	ND	ND	--	
05/31/00	16.18	6.22	0.00	9.96	-0.75	ND	--	ND	ND	ND	ND	ND	--	
08/29/00	16.18	6.82	0.00	9.36	-0.60	ND	--	ND	ND	ND	ND	ND	--	
12/01/00	16.18	7.54	0.00	8.64	-0.72	ND	--	ND	ND	ND	ND	ND	--	
03/17/01	16.18	--	0.00	--	--	ND	--	ND	ND	ND	ND	ND	--	
05/23/01	16.18	--	0.00	--	--	ND	--	ND	ND	ND	ND	ND	--	
09/24/01	16.18	--	0.00	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
12/10/01	16.18	--	0.00	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
03/11/02	16.18	--	0.00	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
06/07/02	16.18	--	0.00	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
09/03/02	16.18	--	--	--	--	--	--	--	--	--	--	--	--	
12/12/02	16.18	7.80	0.00	8.38	--	--	--	--	--	--	--	--	--	
03/13/03	16.18	5.94	0.00	10.24	1.86	--	--	--	--	--	--	--	--	
06/12/03	16.18	6.10	0.00	10.08	-0.16	--	--	--	--	--	--	--	--	
09/12/03	16.18	6.65	0.00	9.53	-0.55	--	--	--	--	--	--	--	--	
12/31/03	16.18	5.74	0.00	10.44	0.91	--	--	--	--	--	--	--	--	Monitored Only
02/12/04	16.18	6.02	0.00	10.16	-0.28	--	--	--	--	--	--	--	--	Monitored Only
06/07/04	16.18	6.61	0.00	9.57	-0.59	--	--	--	--	--	--	--	--	Monitored Only
MW-2 (Screen Interval in feet: DNA)														
03/05/99	15.57	--	0.00	--	--	34400	--	ND	7710	2340	8240	--	8460	
06/03/99	15.57	5.96	0.00	9.61	--	51200	--	ND	7570	2510	7320	6460	8800	
09/02/99	15.57	6.85	0.00	8.72	-0.89	17000	--	ND	3100	1400	3700	4000	720	

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-2 continued														
12/14/99	15.57	7.65	0.00	7.92	-0.80	83000	--	ND	22000	4500	17000	9100	11000	
03/14/00	15.57	5.26	0.00	10.31	2.39	31000	--	ND	4600	2300	7300	5700	8700	
05/31/00	15.57	5.60	0.00	9.97	-0.34	9970	--	ND	1030	487	2060	2500	1670	
08/29/00	15.57	6.35	0.00	9.22	-0.75	7900	--	ND	1500	280	1900	1800	1300	
12/01/00	15.57	7.06	0.00	8.51	-0.71	87500	--	ND	17400	5590	19400	6220	3790	
03/17/01	15.57	--	0.00	--	--	4310	--	ND	59.0	280	682	321	433	
05/23/01	15.57	--	0.00	--	--	45400	--	ND	4490	2790	10900	ND	406	
09/24/01	15.57	--	0.00	--	--	76000	--	ND<0.50	13000	4700	18000	ND<2000	480	
12/10/01	15.57	--	0.00	--	--	82000	--	ND<0.50	9100	4400	16000	ND<2500	270	
03/11/02	15.57	--	0.00	--	--	14000	--	ND<0.50	1400	1100	3600	ND<250	150	
06/07/02	15.57	--	0.00	--	--	14000	--	ND<0.50	1200	1400	4700	540	200	
09/03/02	15.57	--	0.00	--	--	10000	--	--	1200	610	2800	510	460	
MW-2a (Screen Interval in feet: 5-11.5)														
12/12/02	--	--	0.00	--	--	3400	--	80	260	210	1000	380	400	MW-2 abndnd on 11/28/02, replaced by MW-2a
03/13/03	--	--	0.00	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	1.8	2.4	2.4	
06/12/03	--	--	0.00	--	--	ND<50	--	0.59	0.69	ND<0.50	1.2	6.0	4.7	
09/12/03	15.56	6.54	0.00	9.02	--	--	120	1.8	4.2	6.1	20	--	6.6	
12/31/03	15.56	5.63	0.00	9.93	0.91	88	--	0.79	1.8	3.6	14	ND<5.0	2.9	
02/12/04	15.56	5.68	0.00	9.88	-0.05	160	--	2.6	4.8	13	48	7.2	7.9	
06/07/04	15.56	6.21	0.00	9.35	-0.53	94	--	0.80	1.2	2.1	9.1	4.5	3.7	
MW-3 (Screen Interval in feet: 5.0-20.0)														
03/05/99	15.11	--	0.00	--	--	--	--	ND	ND	ND	4.84	--	2.46	
06/03/99	15.11	5.57	0.00	9.54	--	135	--	ND	ND	ND	ND	5.23	12.7	
09/02/99	15.11	6.50	0.00	8.61	-0.93	ND	--	ND	ND	ND	ND	13	11	
12/14/99	15.11	7.28	0.00	7.83	-0.78	ND	--	ND	ND	ND	ND	ND	ND	
03/14/00	15.11	4.87	0.00	10.24	2.41	ND	--	ND	ND	ND	ND	7.2	6.3	
05/31/00	15.11	5.58	0.00	9.53	-0.71	ND	--	ND	ND	ND	ND	ND	ND	
08/29/00	15.11	6.06	0.00	9.05	-0.48	ND	--	ND	ND	ND	ND	ND	ND	

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-3 continued														
12/01/00	15.11	6.76	0.00	8.35	-0.70	ND	--	ND	ND	ND	ND	ND	ND	
03/17/01	15.11	--	0.00	--	--	ND	--	ND	ND	ND	ND	ND	ND	
05/23/01	15.11	--	0.00	--	--	ND	--	ND	ND	ND	ND	ND	ND	
09/24/01	15.11	--	0.00	--	--	ND	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<5.0	
12/10/01	15.11	--	0.00	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<5.0	
03/11/02	15.11	--	0.00	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<5.0	
06/07/02	15.11	--	0.00	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	ND<2.5	
12/12/02	15.11	7.15	0.00	7.96	--	--	--	--	--	--	--	--	--	
03/13/03	15.11	5.37	0.00	9.74	1.78	--	--	--	--	--	--	--	--	
06/12/03	15.11	5.51	0.00	9.60	-0.14	--	--	--	--	--	--	--	--	
09/12/03	15.11	6.03	0.00	9.08	-0.52	--	--	--	--	--	--	--	6.3	
12/31/03	15.11	5.62	0.00	9.49	0.41	--	--	--	--	--	--	--	--	Monitored Only
02/12/04	15.11	5.51	0.00	9.60	0.11	--	--	--	--	--	--	--	--	Monitored Only
06/07/04	15.11	5.92	0.00	9.19	-0.41	--	--	--	--	--	--	--	--	Monitored Only
MW-4 (Screen Interval in feet: 5.0-20.5)														
03/05/99	15.17	--	0.00	--	--	ND	--	ND	ND	ND	2.44	--	25.2	
06/03/99	15.17	5.45	0.00	9.72	--	ND	--	ND	ND	ND	ND	ND	3.96	
09/02/99	15.17	6.48	0.00	8.69	-1.03	ND	--	ND	ND	ND	ND	23	27	
12/14/99	15.17	7.27	0.00	7.90	-0.79	ND	--	ND	ND	ND	ND	200	270	
03/14/00	15.17	4.67	0.00	10.50	2.60	ND	--	ND	ND	ND	ND	46	49	
05/31/00	15.17	5.48	0.00	9.69	-0.81	ND	--	ND	ND	ND	ND	ND	--	
08/29/00	15.17	6.10	0.00	9.07	-0.62	ND	--	ND	ND	ND	ND	6.1	3.2	
12/01/00	15.17	6.79	0.00	8.38	-0.69	ND	--	ND	ND	ND	ND	152	101	
03/17/01	15.17	--	0.00	--	--	ND	--	ND	ND	ND	ND	ND	--	
05/23/01	15.17	--	0.00	--	--	ND	--	ND	ND	ND	ND	ND	--	
09/24/01	15.17	--	0.00	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
12/10/01	15.17	--	0.00	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1,700	1,300	
03/11/02	15.17	--	0.00	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
06/07/02	15.17	--	0.00	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-4 continued														
09/03/02	15.17	--	0.00	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
12/12/02	15.17	--	0.00	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.9	3.3	
03/13/03	15.17	--	0.00	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	--	
06/12/03	15.17	--	0.00	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	--	
09/12/03	15.17	6.07	0.00	9.10	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
12/31/03	15.17	5.63	0.00	9.54	0.44	750	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	790	--	
02/12/04	15.17	5.26	0.00	9.91	0.37	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
06/07/04	15.17	5.82	0.00	9.35	-0.56	ND<50	--	ND<0.3	ND<0.3	ND<0.3	ND<0.6	ND<1	--	
MW-5 (Screen Interval in feet: 5-20)														
12/14/99	13.34	6.45	0.00	6.89	--	ND	--	ND	ND	ND	ND	3.5	3.8	
03/14/00	13.34	4.46	0.00	8.88	1.99	ND	--	ND	ND	ND	ND	ND	--	
05/31/00	13.34	5.18	0.00	8.16	-0.72	ND	--	ND	ND	ND	ND	ND	--	
08/29/00	13.34	5.46	0.00	7.88	-0.28	ND	--	ND	ND	ND	ND	ND	--	
12/01/00	13.34	5.95	0.00	7.39	-0.49	ND	--	ND	ND	ND	ND	ND	--	
03/17/01	13.34	--	0.00	--	--	ND	--	ND	ND	ND	ND	ND	--	
05/23/01	13.34	--	0.00	--	--	ND	--	ND	ND	ND	ND	ND	--	
09/24/01	13.34	--	0.00	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
12/10/01	13.34	--	0.00	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
03/11/02	13.34	--	0.00	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
06/07/02	13.34	--	--	--	--	--	--	--	--	--	--	--	--	
09/03/02	13.34	--	--	--	--	--	--	--	--	--	--	--	--	
12/12/02	13.34	--	0.00	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	--	
03/13/03	13.34	--	0.00	--	--	ND<50	--	ND<0.50	0.54	ND<0.50	ND<0.50	ND<2.0	--	
06/12/03	13.34	--	0.00	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	--	
09/12/03	13.34	5.53	0.00	7.81	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
12/31/03	13.34	5.11	0.00	8.23	0.42	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
02/12/04	13.34	5.02	0.00	8.32	0.09	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
06/07/04	13.34	5.35	0.00	7.99	-0.33	ND<50	--	ND<0.3	ND<0.3	ND<0.3	ND<0.6	ND<1	--	
MW-6 (Screen Interval in feet: 5-20)														

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-6 continued														
12/14/99	14.08	6.64	0.00	7.44	--	ND	--	ND	ND	ND	ND	11,000	18,000	
03/14/00	14.08	4.72	0.00	9.36	1.92	ND	--	ND	ND	ND	ND	19,000	21,000	
05/31/00	14.08	5.28	0.00	8.80	-0.56	ND	--	ND	ND	ND	ND	13200	--	
08/29/00	14.08	5.39	0.00	8.69	-0.11	ND	--	ND	ND	ND	ND	270	400	
12/01/00	14.08	6.11	0.00	7.97	-0.72	ND	--	ND	ND	ND	ND	6330	3640	
03/17/01	14.08	--	0.00	--	--	18700	--	2950	989	1040	3000	10200	11500	
05/23/01	14.08	--	0.00	--	--	ND	--	ND	ND	ND	ND	4660	--	
09/24/01	14.08	--	0.00	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	160	190	
12/10/01	14.08	--	0.00	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3200	2400	
03/11/02	14.08	--	0.00	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	92	120	
06/07/02	14.08	--	--	--	--	--	--	--	--	--	--	--	--	
09/03/02	14.08	--	--	--	--	--	--	--	--	--	--	--	--	
12/12/02	14.08	--	0.00	--	--	590	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1500	6200	
03/13/03	14.08	--	0.00	--	--	1600	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	4900	4100	
06/12/03	14.08	--	0.00	--	--	1600	--	ND<10	ND<10	ND<10	ND<10	5200	3700	
09/12/03	14.08	6.29	0.00	7.79	--	--	ND<250	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	310	
12/31/03	14.08	5.38	0.00	8.70	0.91	3300	--	ND<25	ND<25	ND<25	ND<25	3800	--	
02/12/04	14.08	5.06	0.00	9.02	0.32	1100	--	ND<10	ND<10	ND<10	ND<10	1900	2800	
06/07/04	14.08	5.45	0.00	8.63	-0.39	2500	--	ND<3	ND<3	ND<3	ND<6	3200	2900	
Trip Blank (Screen Interval in feet: DNA)														
03/05/99	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	ND	
06/03/99	--	--	--	--	--	ND	--	ND	ND	ND	ND	ND	--	
09/02/99	--	--	--	--	--	ND	--	ND	ND	ND	ND	ND	--	
12/14/99	--	--	--	--	--	ND	--	ND	ND	ND	ND	ND	--	
03/14/00	--	--	--	--	--	ND	--	ND	ND	ND	ND	ND	--	
05/31/00	--	--	--	--	--	ND	--	ND	ND	ND	ND	ND	--	
08/29/00	--	--	--	--	--	ND	--	ND	ND	ND	ND	ND	--	
12/01/00	--	--	--	--	--	ND	--	ND	ND	ND	ND	ND	--	
03/17/01	--	--	--	--	--	ND	--	ND	ND	ND	ND	ND	--	

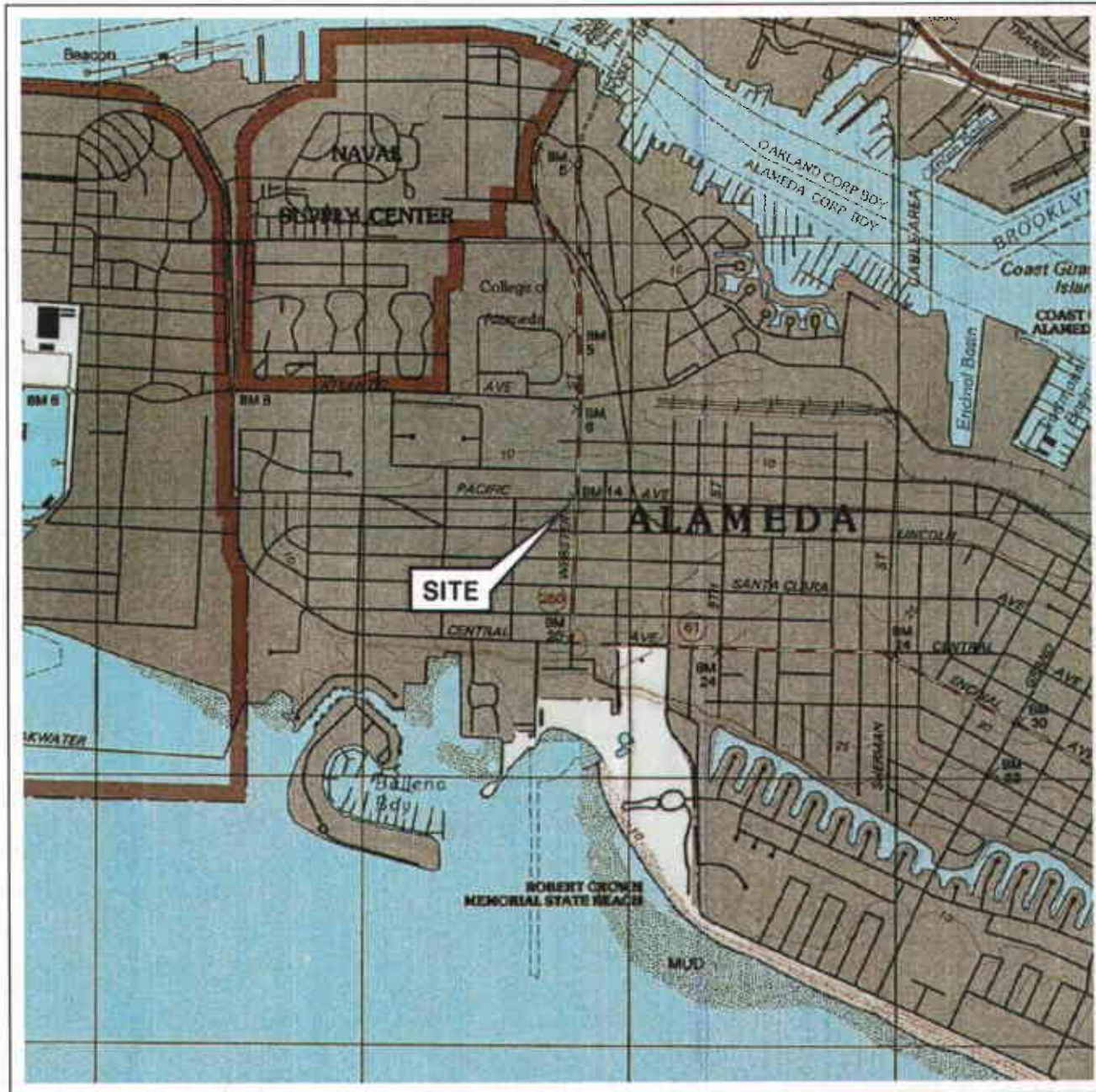
Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
Trip Blank	continued													
05/23/01	--	--	--	--	--	ND	--	ND	ND	ND	ND	ND	--	
09/24/01	--	--	--	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
12/10/01	--	--	--	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
03/11/02	--	--	--	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
06/07/02	--	--	--	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
09/03/02	--	--	--	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
12/12/02	--	--	--	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	--	
03/13/03	--	--	--	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	ND<0.50	
06/12/03	--	--	--	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	--	

Table 3
SUMMARY OF ADDITIONAL CHEMICAL ANALYSIS RESULTS
Former 76 Station 0843

Date Sampled	EDC (µg/l)	EDB (µg/l)	TAME 8260B (µg/l)	TBA 8260B (µg/l)	DIPE 8260B (µg/l)	ETBE 8260B (µg/l)	Ethanol 8015B (mg/l)	Ethanol 8260B (µg/l)
MW-1								
09/02/99	--	--	ND	ND	ND	ND	ND	--
MW-2								
09/02/99	--	--	ND	ND	ND	ND	ND	--
12/14/99	ND	ND	ND	ND	ND	ND	ND	--
03/14/00	ND	ND	ND	1300	ND	ND	ND	--
05/31/00	ND	ND	ND	ND	ND	ND	ND	--
08/29/00	ND	ND	ND	250	ND	ND	ND	--
12/01/00	ND	ND	ND	ND	ND	ND	ND	--
03/17/01	ND	ND	ND	ND	14.8	ND	ND	--
05/23/01	ND	ND	ND	ND	ND	ND	ND	--
09/24/01	ND<100	ND<100	ND<100	ND<5000	ND<100	ND<100	ND<50000	--
12/10/01	ND<25	ND<25	ND<25	ND<500	ND<25	ND<25	ND<12000	--
03/11/02	ND<20	ND<20	ND<20	ND<1000	ND<20	ND<20	ND<5000	--
06/07/02	ND<25	ND<25	ND<25	ND<1000	ND<25	ND<25	ND<2000	--
09/03/02	ND<20	ND<20	ND<20	ND<1000	ND<20	ND<20	ND<5000	--
MW-2a								
12/12/02	2.3	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500	--
03/13/03	ND<2.0	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500	--
06/12/03	ND<2.0	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500	--
09/12/03	ND<2.0	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	--	ND<500
12/31/03	ND<2.0	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	--	ND<500
02/12/04	ND<2.0	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	--	ND<500
06/07/04	ND<0.5	ND<0.5	ND<1	ND<12	ND<1	ND<1	--	ND<800
MW-3								
09/02/99	--	--	ND	ND	ND	ND	ND	--

Date Sampled	EDC (µg/l)	EDB (µg/l)	TAME 8260B (µg/l)	TBA 8260B (µg/l)	DIPE 8260B (µg/l)	ETBE 8260B (µg/l)	Ethanol 8015B (mg/l)	Ethanol 8260B (µg/l)
MW-4								
09/02/99	--	--	ND	ND	ND	ND	--	--
12/10/01	ND<14	ND<14	ND<14	ND<290	ND<14	ND<14	ND<7,100	--
12/12/02	ND<2.0	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500	--
09/12/03							--	ND<500
MW-5								
09/12/03							--	ND<500
MW-6								
03/17/01	219	ND	ND	ND	ND	ND	ND	--
09/24/01	ND<2.0	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<1000	--
12/10/01	ND<25	ND<25	ND<25	ND<500	ND<25	ND<25	ND<12000	--
03/11/02	ND<2.0	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500	--
12/12/02	ND<200	ND<200	ND<200	ND<10000	ND<200	ND<200	ND<50000	--
03/13/03	ND<100	ND<100	ND<100	ND<5000	ND<100	ND<100	ND<25000	--
06/12/03	ND<40	ND<40	ND<40	ND<2000	ND<40	ND<40	ND<10000	--
09/12/03							--	ND<2500
02/12/04	ND<40	ND<40	ND<40	ND<2000	ND<40	ND<40	--	ND<10000
06/07/04	ND<5	ND<5	ND<10	ND<200	ND<10	ND<10	--	ND<8000

FIGURES



0 1/4 1/2 3/4 1 MILE



SCALE 1: 24,000



QUADRANGLE LOCATION

VICINITY MAP

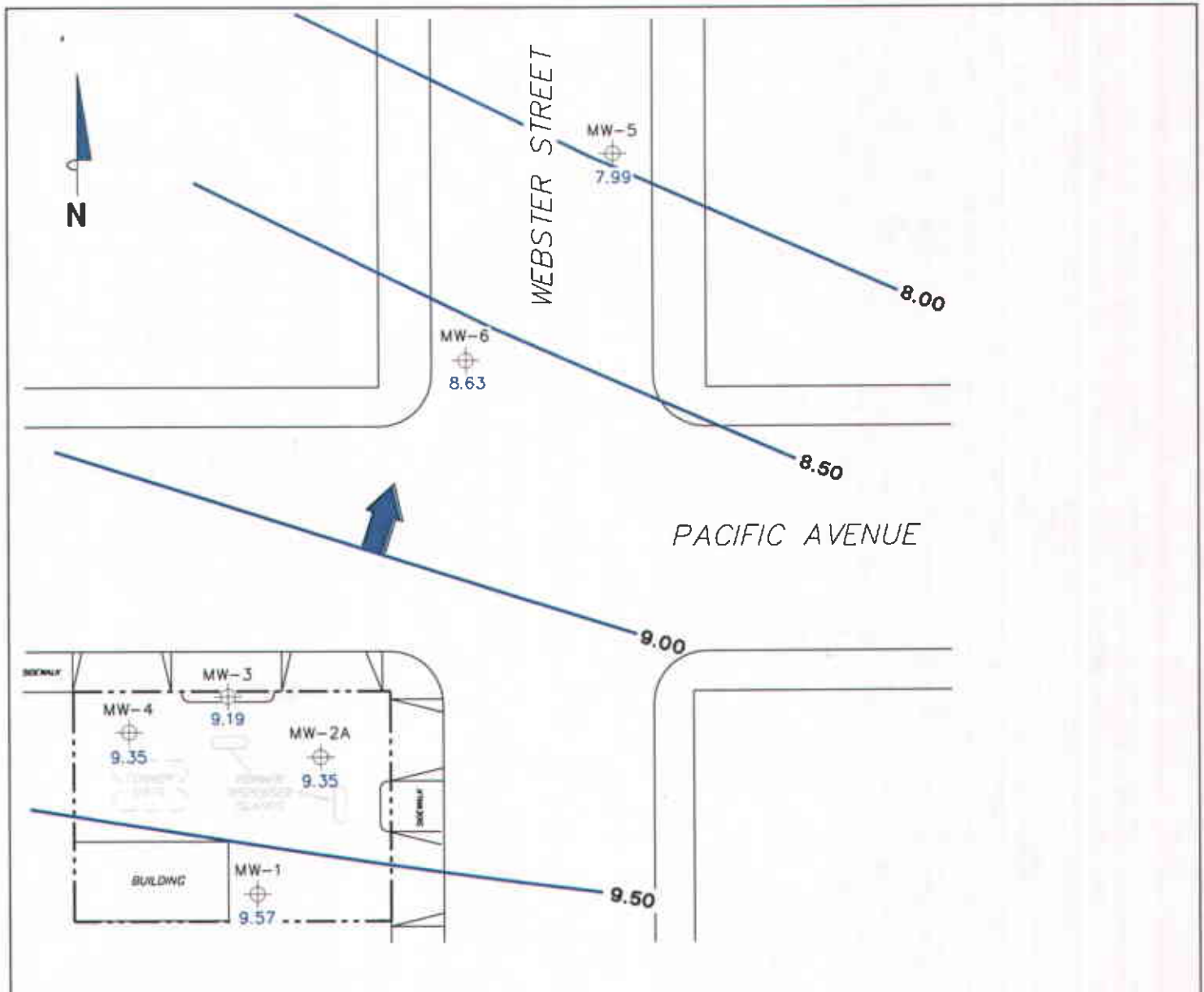
Former 76 Station 0843
1629 Webster Street
Alameda, California

SOURCE:

United States Geological Survey
7.5 Minute Topographic Map:
Oakland West Quadrangle

TRC


FIGURE 1





NOTES:

Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. UST = underground storage tank.

LEGEND

MW-6  Monitoring Well with Groundwater Elevation (feet)

9.50  Groundwater Elevation Contour

 General Direction of Groundwater Flow

**GROUNDWATER ELEVATION
CONTOUR MAP
June 7, 2004**

Former 76 Station 0843
1629 Webster Street
Alameda, California

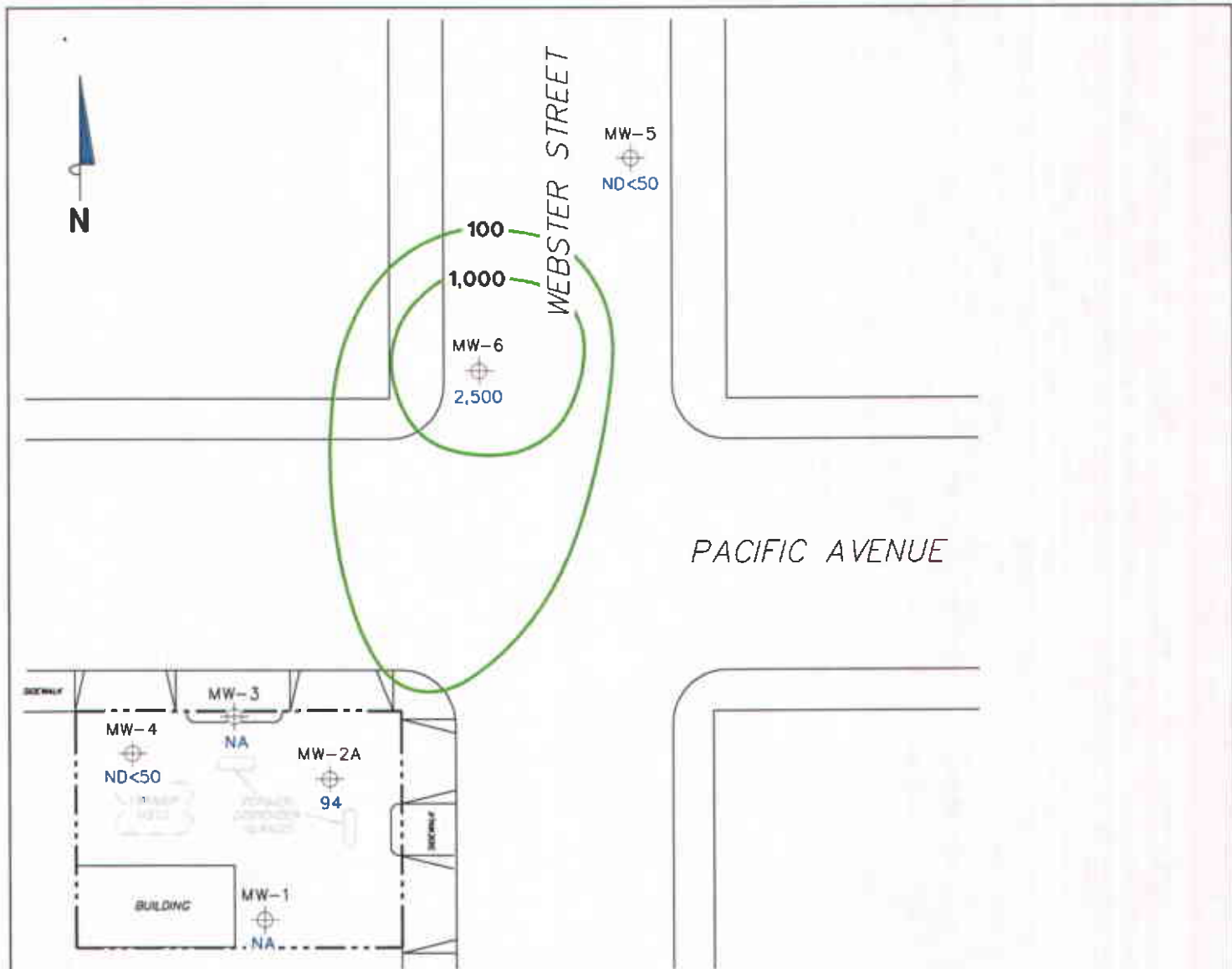


SCALE (FEET)



FIGURE 2

PS=1:1 0843-003



NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. TPH-G = total petroleum hydrocarbons as gasoline. µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report. NA = not analyzed, measured, or collected. UST = underground storage tank. Results obtained using EPA Method 8015M.

LEGEND

- MW-4 ⊕ Monitoring Well with Dissolved-Phase TPH-G Concentrations (µg/l)
- 1,000 — Dissolved-Phase TPH-G Contour (µg/l)

DISSOLVED-PHASE TPH-G CONCENTRATIONS MAP
June 7, 2004

Former 76 Station 0843
1629 Webster Street
Alameda, California



SCALE (FEET)



FIGURE 3

PS=1:1 0843-003

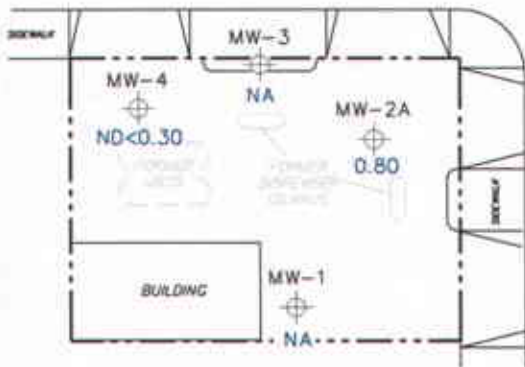


WEBSTER STREET

MW-5
ND<0.30

MW-6
ND<3

PACIFIC AVENUE



NOTES:

µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report.
 NA = not analyzed, measured, or collected.
 UST = underground storage tank. Benzene results obtained using EPA Method 8060B.

LEGEND

MW-4  Monitoring Well with Dissolved-Phase Benzene Concentrations (µg/l)

DISSOLVED-PHASE BENZENE CONCENTRATIONS MAP
June 7, 2004

Former 76 Station 0843
 1629 Webster Street
 Alameda, California

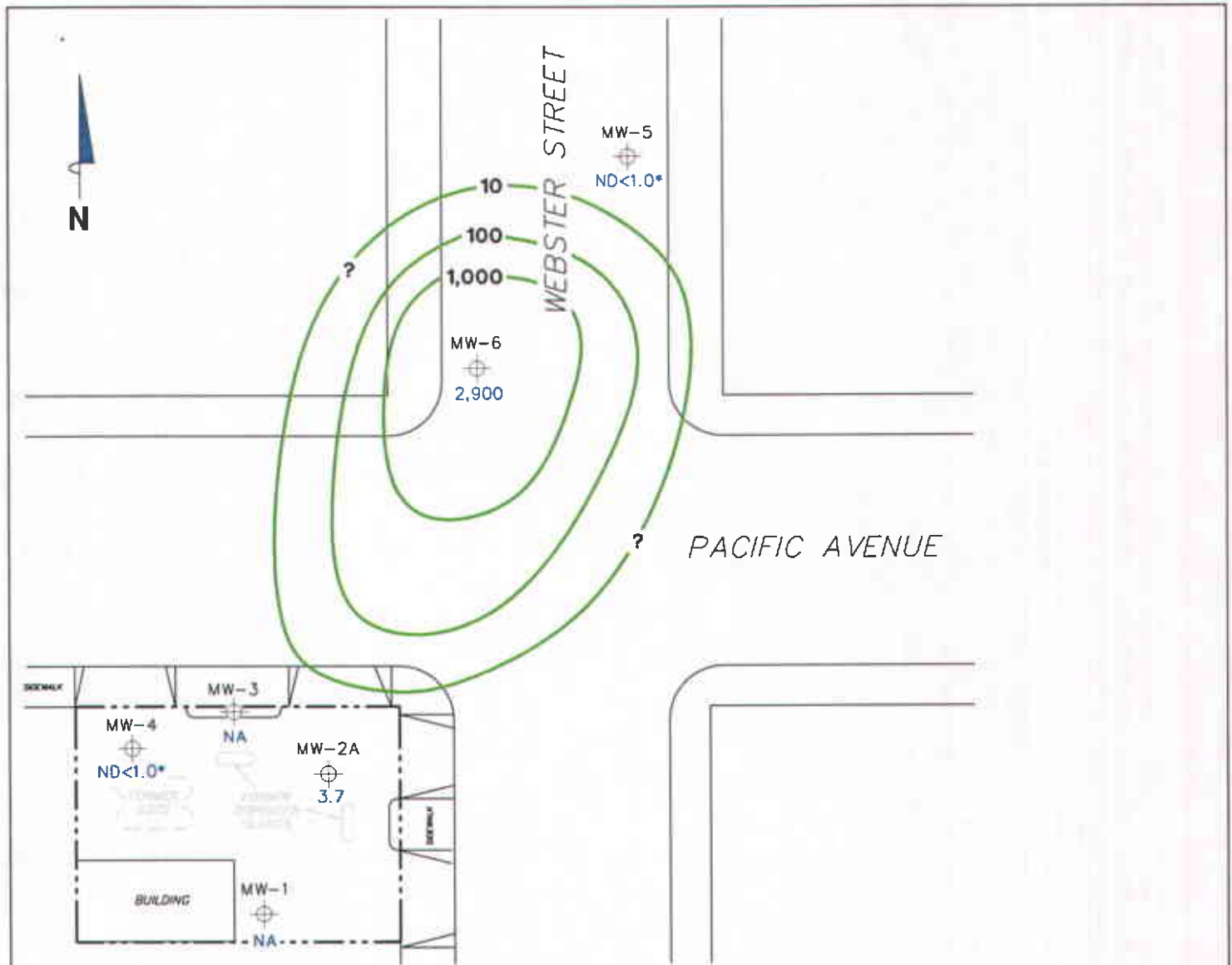


SCALE (FEET)



FIGURE 4

PS=1:1 0843-003



NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. MTBE = methyl tertiary butyl ether. µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report. NA = not analyzed, measured, or collected. UST = underground storage tank. MTBE results obtained using EPA Method 8260B. * = result obtained using EPA Method 8021B.

LEGEND

MW-4 Monitoring Well with Dissolved-Phase MTBE Concentrations (µg/l)

1,000 Dissolved-Phase MTBE Contour (µg/l)

DISSOLVED-PHASE MTBE CONCENTRATIONS MAP
June 7, 2004

Former 76 Station 0843
 1629 Webster Street
 Alameda, California



SCALE (FEET)

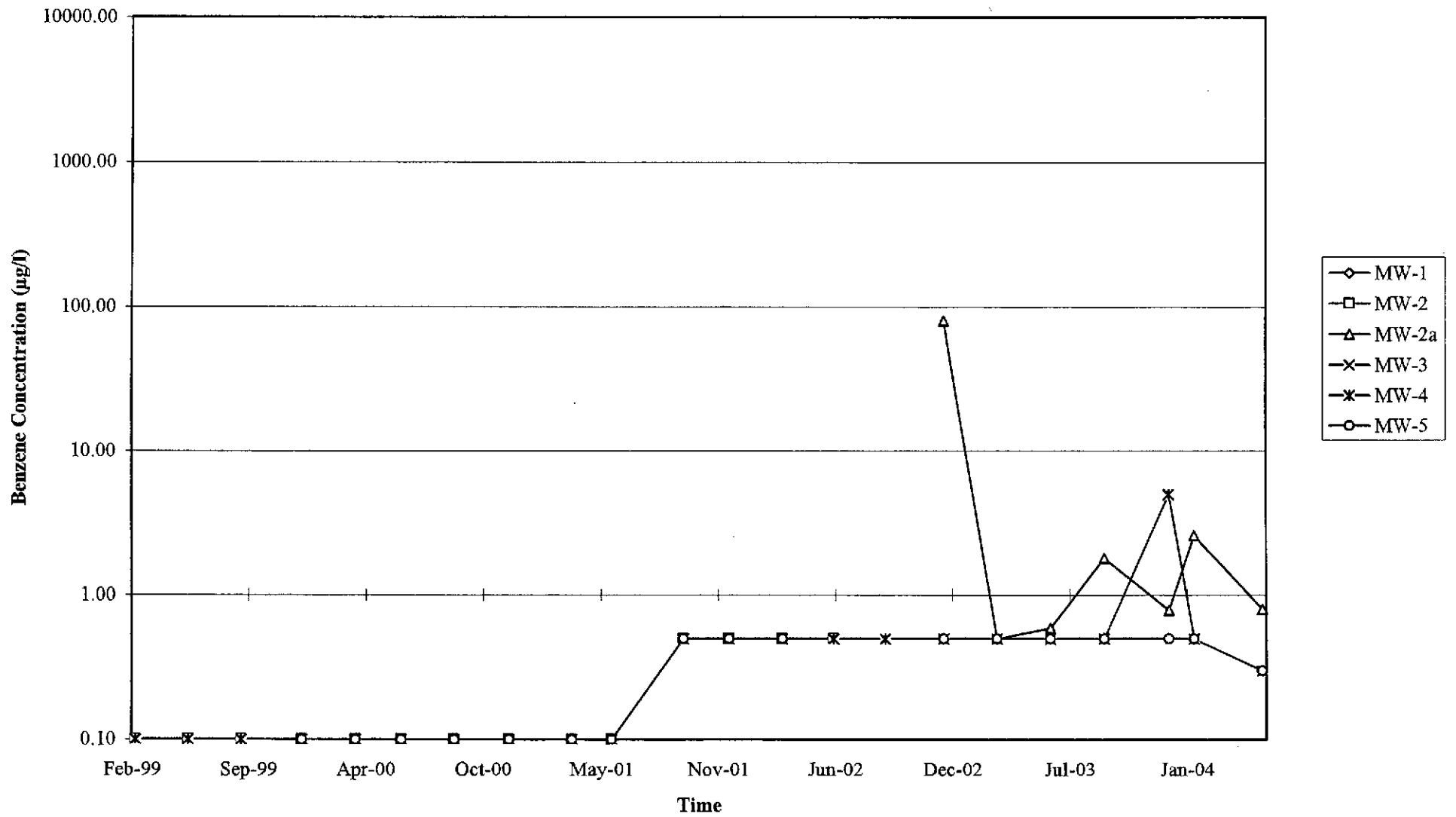


FIGURE 5

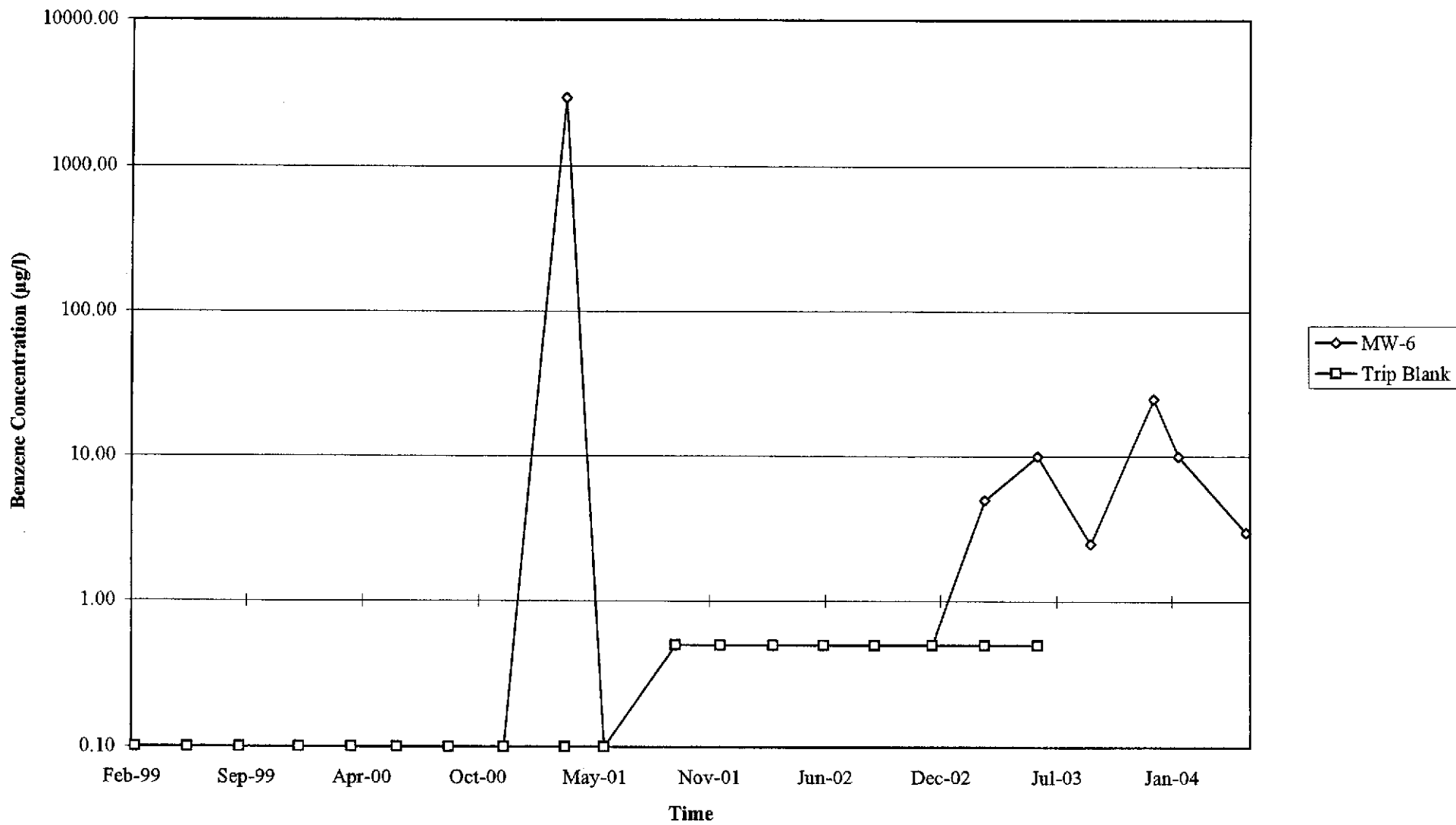
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GRAPHS

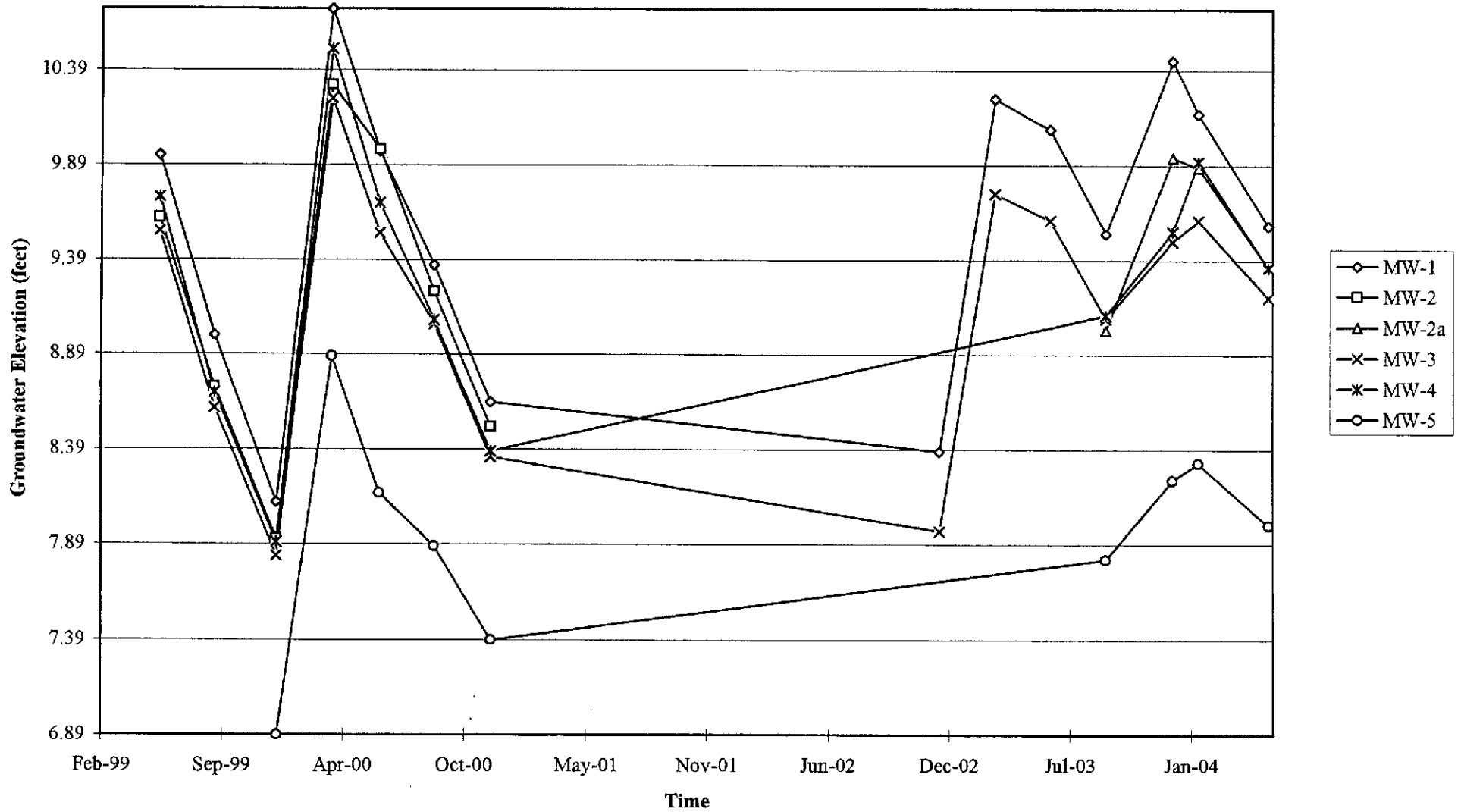
Graph 1
Benzene Concentrations vs. Time
Former 76 Station 0843



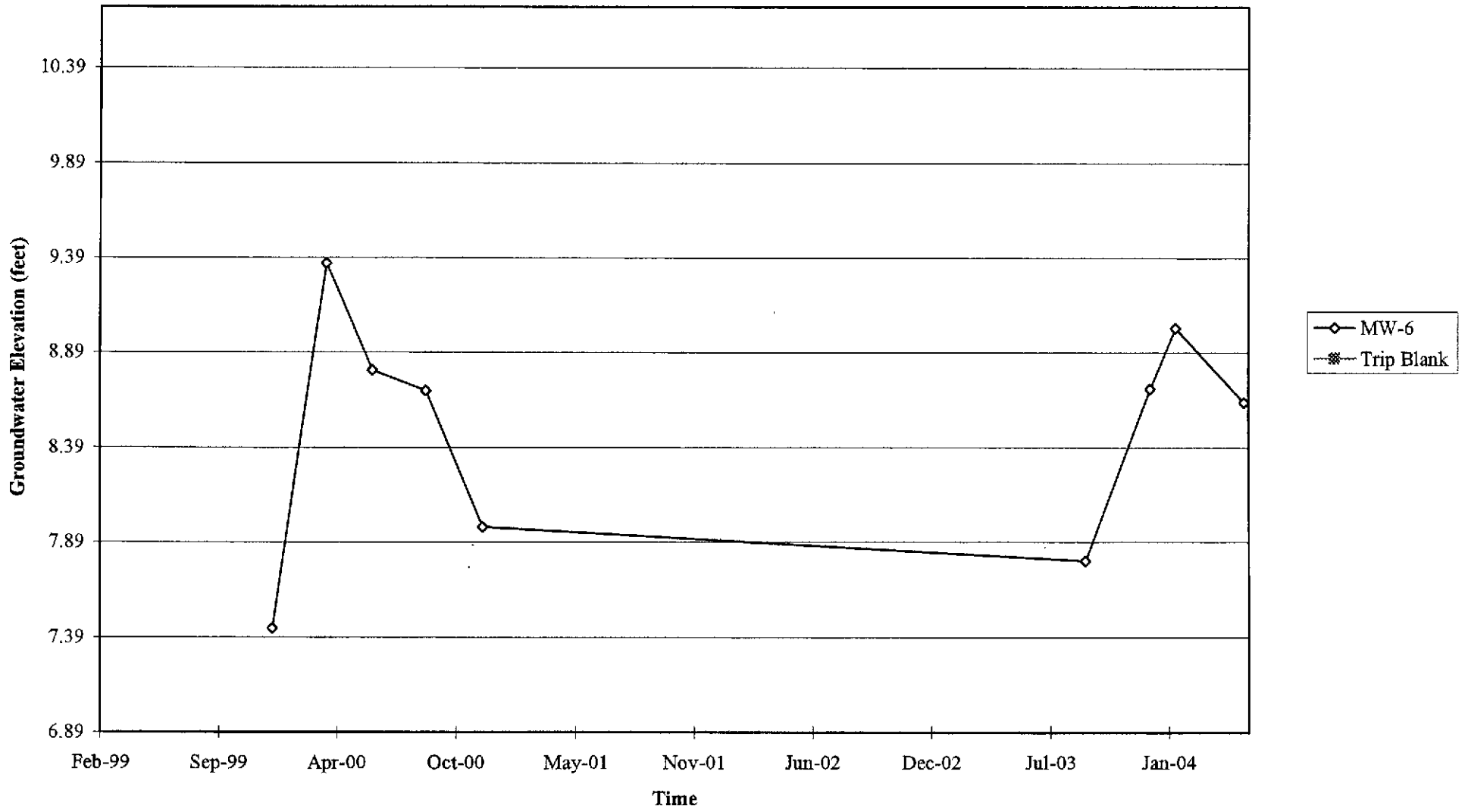
Graph 2
Benzene Concentrations vs. Time
Former 76 Station 0843



Graph 3
Hydrograph
Former 76 Station 0843



Graph 4
Hydrograph
Former 76 Station 0843



GENERAL FIELD PROCEDURES

Groundwater Monitoring and Sampling Assignments

For each site, TRC technicians are provided with a Technical Service Request (TSR) that specifies activities required to complete the groundwater monitoring and sampling assignment for the site. TSRs are based on client directives, instructions from the primary environmental consultant for the site, regulatory requirements, and TRC's previous experience with the site.

Fluid Level Measurements

Initial site activities include determination of well locations based on a site map provided with the TSR. Well boxes are opened and caps are removed. Indications of well or well box damage, or of pressure buildup in the well are noted.

Fluid levels in each well are measured using a coated cloth tape equipped with an electronic interface probe, which distinguishes between liquid phase hydrocarbon (LPH) and water. The depth to LPH (if it is present), to water, and to the bottom of the well are measured from the top of the well casing (surveyors mark or notch if present) to the nearest 0.01 foot. Unless otherwise instructed, a well with less than 0.67 foot between the measured top of water and the measured bottom of the well casing is considered dry, and is not sampled. If the well contains 0.67 foot or more of water, an attempt is made to bail and/or sample as specified on the TSR.

Wells that are found to contain LPH are not purged or sampled. Instead, one casing volume of fluid is bailed from the well and the well is re-sealed. Bailed fluids are placed in a container separate from normal purge water, and properly disposed.

Purging and Groundwater Parameter Measurement

TSR instructions may specify that a well not be purged (no-purge sampling), be purged using low-flow methods, or be purged using conventional pump and/or bail methods. Conventional purging generally consists of pumping or bailing until a minimum of three casing volumes of water have been removed or until the well has been pumped dry. Pumping is generally accomplished using submersible electric or pneumatic diaphragm pumps.

During conventional purging, three groundwater parameters (temperature, pH, and conductivity) are measured after removal of each casing volume. Stabilization of these parameters, to within 10 percent, confirm that sufficient purging has been completed. In some cases, the TSR indicates that other parameters are also to be measured during purging. TRC commonly measures dissolved oxygen (DO), oxidation-reduction potential (ORP), and/or turbidity. Instruments used for groundwater parameter measurement are calibrated daily according to manufacturer's instructions.

Low-flow purging utilizes a bladder or peristaltic pump to remove water from the well at a low rate. Groundwater parameters specified by the TSR are measured continuously until they become stable in general accordance with EPA guidelines.

Purge water is generally collected in labeled drums for disposal. Drums may be left on site for disposal by others, or transported to a collection location for eventual transfer to a licensed treatment or recycling facility. In some cases, purge water may be collected directly from the site by a licensed vacuum truck company, or may be treated on site by an active remediation system, if so directed.

Groundwater Sample Collection

After wells are purged, or not purged, according to TSR instructions, samples are collected for laboratory analysis. For wells that have been purged using conventional pump or bail methods, sampling is conducted after the well has recovered to 80 percent of its original volume or after two hours if the well does not recover to at least 80 percent. If there is insufficient recharge of water in the well after two hours, the well is not sampled.

Samples are collected by lowering a new, disposable, ½-inch to 4-inch polyethylene bottom-fill bailer to just below the water level in the well. The bailer is retrieved and the water sample is carefully transferred to containers specified for the laboratory analytical methods indicated by the TSR. Particular care is given to containers for volatile organic analysis (VOAs) which require filling to zero headspace and fitting with Teflon-sealed caps.

After filling, all containers are labeled with project number (or site number), well designation, sample date, and the samplers initials, and placed in an insulated chest with ice. Samples remain chilled prior to and during transport to a state-certified laboratory for analysis. Sample container descriptions and requested analyses are entered onto a chain-of-custody form in order to provide instructions to the laboratory. The chain-of-custody form accompanies the samples during transportation to provide a continuous record of possession from the field to the laboratory. If a freight or overnight carrier transports the samples, the carrier is noted on the form.

For wells that have been purged using low-flow methods, sample containers are filled from the effluent stream of the bladder or peristaltic pump. In some cases, if so specified by the TSR, samples are taken from the sample ports of actively pumping remediation wells.

Sequence of Gauging, Purging, and Sampling

The sequence in which monitoring activities are conducted are specified on the TSR. In general, wells are gauged beginning with the least-affected well and ending with the well that has highest concentration based on previous analytic results. After all gauging for the site is completed, wells are purged and/or sampled from the least-affected well to the most-affected well.

Decontamination

In order to reduce the possibility of cross-contamination between wells, strict isolation and decontamination procedures are observed. Portable pumps are not used in wells with LPH. Technicians wear nitrile gloves during all gauging, purging and sampling activities. Gloves are changed between wells and more often if warranted. Any equipment that could come in contact with fluids are either dedicated to a particular well, decontaminated prior to each use, or discarded after a single use. Decontamination consists of washing in a solution of Liqui-nox and water and rinsing twice. The final rinse is in deionized water.

Exceptions

Additional tasks or non-standard procedures, if any, that may be requested or required for a particular site, and noted on the site TSR, are documented in field notes on the following pages.

GROUNDWATER SAMPLING FIELD NOTES

Technician: Jack

Site: 043

Project No.: 41053001/FL25

Date: 6/7/04

Well No.: MW-6

Purge Method: DIA

Depth to Water (feet): 5.45

Depth to Product (feet): ∅

Total Depth (feet): 19.65

LPH & Water Recovered (gallons): ∅

Water Column (feet): 14.20

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 8.29

1 Well Volume (gallons): 2

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F. C)	pH	Turbidity	D.O.
1017			2	334	19.5	6.79		
			4	336	19.0	6.82		
	1021		6	318	18.7	6.86		
Static at Time Sampled		Total Gallons Purged			Time Sampled			
7.79		6			1031			
Comments:								

Well No.: MW-5

Purge Method: DIA

Depth to Water (feet): 5.35

Depth to Product (feet): ∅

Total Depth (feet): 19.55

LPH & Water Recovered (gallons): ∅

Water Column (feet): 14.20

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 8.19

1 Well Volume (gallons): 2

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F. C)	pH	Turbidity	D.O.
0945			2	419	19.7	7.32		
			4	386	19.3	7.00		
	0950		6	373	19.5	6.93		
Static at Time Sampled		Total Gallons Purged			Time Sampled			
8.12		6			1000			
Comments:								

GROUNDWATER SAMPLING FIELD NOTES

Technician: JMCK

Site: 0843

Project No.: 41053001/FW25

Date: 6/9/14

Well No.: MW-4

Purge Method: DIA

Depth to Water (feet): 5.82

Depth to Product (feet): ∅

Total Depth (feet): 18.49

LPH & Water Recovered (gallons): ∅

Water Column (feet): 12.67

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 8.35

1 Well Volume (gallons): 2

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	Turbidity	D.O.
1050			2	534	21.7	6.95		
			4	574	21.2	7.19		
	1056		6	591	21.2	7.60		
Static at Time Sampled		Total Gallons Purged			Time Sampled			
8.30		6			1108			
Comments:								

Well No.: MW-2A

Purge Method: AB

Depth to Water (feet): 6.21

Depth to Product (feet): ∅

Total Depth (feet): 10.48

LPH & Water Recovered (gallons): ∅

Water Column (feet): 4.27

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 7.06

1 Well Volume (gallons): 1

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	Turbidity	D.O.
1118			1	785	22.8	11.30		
			2	738	22.8	11.36		
	1123		3					
Static at Time Sampled		Total Gallons Purged			Time Sampled			
6.25		3			1130			
Comments:								



Cover Report

TRC ALTON GEOSCIENCE
21 TECHNOLOGY DRIVE
IRVINE, CA 92618-2302
Attn: ANJU FARFAN

Project Number: 0843
COC Number:
BCL Number: 04-05824

Dear Ms. Farfan:

This report contains the analytical results for the samples received under chain of custody by BC Laboratories, Inc. The samples were logged into the Laboratory Information Management System (LIMS) and BC Lab numbers were assigned to each sample. The result of the temperature check, condition of the samples and any other discrepancies were recorded on the cooler receipt form.

All applicable quality control procedures met method-specific acceptance criteria, except as noted on the following analytical and quality control reports.

This report shall not be reproduced except in full, without written approval of the laboratory.

California DOHS Certification #1186

Authorized Signature



BC Laboratories, Inc

TRC ALTON GEOSCIENCE
 21 TECHNOLOGY DRIVE
 IRVINE, CA 92618-2302
 Attn: ANJU FARFAN

Purgeable Aromatic Analysis (EPA Method 8020)

COC Number	---							Receive Date/Time	06/07/2004 @ 21:20					
Project Number	0843							Sampling Date/Time	06/07/2004 @ 11:30					
Sampling Location	---							Sample Depth	---					
Sampling Point	MW-2A							Sample Matrix	Water					
Sampled By	JACK							BCL Sample ID	04-05824-1					
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date	Run Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Methyl t-butyl ether	4.5	ug/L	1	0.14	8021B	06/14/04	06/14/04	23:10	TLF	GC-V1	1	294-100523	ND	

California DOHS Certification #1186



BC Laboratories, Inc

TRC ALTON GEOSCIENCE
 21 TECHNOLOGY DRIVE
 IRVINE, CA 92618-2302
 Attn: ANJU FARFAN

Volatile Organic Analysis (EPA Method 8260)

COC Number		---								Receive Date/Time		06/07/2004 @ 21:20		
Project Number		0843								Sampling Date/Time		06/07/2004 @ 11:30		
Sampling Location		---								Sample Depth		---		
Sampling Point		MW-2A								Sample Matrix		Water		
Sampled By		JACK								BCL Sample ID		04-05824-1		
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date	Run Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
1,2-Dibromoethane	< PQL	ug/L	0.5	0.17	8260	06/10/04	06/10/04	01:42	MGC	MS-V5	1	317-100779	ND	
1,2-Dichloroethane	< PQL	ug/L	0.5	0.086	8260	06/10/04	06/10/04	01:42	MGC	MS-V5	1	317-100779	ND	
t-Amyl Methyl ether	< PQL	ug/L	1	0.12	8260	06/10/04	06/10/04	01:42	MGC	MS-V5	1	318-100779	ND	
t-Butyl alcohol	< PQL	ug/L	12	3.7	8260	06/10/04	06/10/04	01:42	MGC	MS-V5	1	318-100779	ND	
Diisopropyl ether	< PQL	ug/L	1	0.13	8260	06/10/04	06/10/04	01:42	MGC	MS-V5	1	318-100779	ND	
Ethanol	< PQL	ug/L	800	29	8260	06/10/04	06/10/04	01:42	MGC	MS-V5	1	318-100779	ND	
Ethyl t-butyl ether	< PQL	ug/L	1	0.15	8260	06/10/04	06/10/04	01:42	MGC	MS-V5	1	318-100779	ND	
Methyl t-butyl ether	3.7	ug/L	0.5	0.076	8260	06/10/04	06/10/04	01:42	MGC	MS-V5	1	317-100779	ND	
Surrogate Compounds	Result	Units	Control Limits	Method	Prep Date	Run Date	Run Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
1,2-Dichloroethane-d4	102	%	76-114	8260	06/10/04	06/10/04	01:42	MGC	MS-V5	1	317-100779			
Toluene-d8	100	%	88-110	8260	06/10/04	06/10/04	01:42	MGC	MS-V5	1	317-100779			
4-Bromofluorobenzene	100	%	86-115	8260	06/10/04	06/10/04	01:42	MGC	MS-V5	1	317-100779			

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04-05824-1



TRC ALTON GEOSCIENCE
 21 TECHNOLOGY DRIVE
 IRVINE, CA 92618-2302
 Attn: ANJU FARFAN

Purgeable Aromatics and Total Petroleum Hydrocarbons

COC Number		---						Receive Date/Time		06/07/2004 @ 21:20				
Project Number		0843						Sampling Date/Time		06/07/2004 @ 11:30				
Sampling Location		---						Sample Depth		---				
Sampling Point		MW-2A						Sample Matrix		Water				
Sampled By		JACK						BCL Sample ID		04-05824-1				
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date	Run Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	0.80	ug/L	0.3	0.074	8021B	06/14/04	06/14/04	23:10	TLF	GC-V1	1	294-100523	ND	
Toluene	1.2	ug/L	0.3	0.15	8021B	06/14/04	06/14/04	23:10	TLF	GC-V1	1	294-100523	ND	
Ethylbenzene	2.1	ug/L	0.3	0.13	8021B	06/14/04	06/14/04	23:10	TLF	GC-V1	1	294-100523	ND	
Methyl t-butyl ether	4.5	ug/L	1	0.14	8021B	06/14/04	06/14/04	23:10	TLF	GC-V1	1	294-100523	ND	
Total Xylenes	9.1	ug/L	0.6	0.51	8021B	06/14/04	06/14/04	23:10	TLF	GC-V1	1	294-100523	ND	
Gasoline Range Organics (C4 - C12)	94	ug/L	50	14	8015M	06/14/04	06/14/04	23:10	TLF	GC-V1	1	294-100523	ND	
Surrogate Compounds	Result	Units	Control Limits	Method	Prep Date	Run Date	Run Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
a,a,a-Trifluorotoluene	85	%	70-130	8021B	06/14/04	06/14/04	23:10	TLF	GC-V1	1	294-100523			
a,a,a-Trifluorotoluene (8015 Surrogate)	106	%	70-130	8015M	06/14/04	06/14/04	23:10	TLF	GC-V1	1	294-100523			

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BC Laboratories, Inc

TRC ALTON GEOSCIENCE
 21 TECHNOLOGY DRIVE
 IRVINE, CA 92618-2302

Attn: ANJU FARFAN

Purgeable Aromatic Analysis (EPA Method 8020)

COC Number	---								Receive Date/Time	06/07/2004 @ 21:20				
Project Number	0843								Sampling Date/Time	06/07/2004 @ 10:00				
Sampling Location	---								Sample Depth	---				
Sampling Point	MW-5								Sample Matrix	Water				
Sampled By	JACK								BCL Sample ID	04-05824-2				
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date	Run Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Methyl t-butyl ether	< PQL	ug/L	1	0.14	8021B	06/19/04	06/19/04	00:48	TLF	GC-V1	1	294-100523	ND	

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04-05824-2



TRC ALTON GEOSCIENCE
 21 TECHNOLOGY DRIVE
 IRVINE, CA 92618-2302
 Attn: ANJU FARFAN

Purgeable Aromatics and Total Petroleum Hydrocarbons

COC Number		---							Receive Date/Time		06/07/2004 @ 21:20			
Project Number		0843							Sampling Date/Time		06/07/2004 @ 10:00			
Sampling Location		---							Sample Depth		---			
Sampling Point		MW-5							Sample Matrix		Water			
Sampled By		JACK							BCL Sample ID		04-05824-2			
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date	Run Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	< PQL	ug/L	0.3	0.074	8021B	06/19/04	06/19/04	00:48	TLF	GC-V1	1	294-100523	ND	
Toluene	< PQL	ug/L	0.3	0.15	8021B	06/19/04	06/19/04	00:48	TLF	GC-V1	1	294-100523	ND	
Ethylbenzene	< PQL	ug/L	0.3	0.13	8021B	06/19/04	06/19/04	00:48	TLF	GC-V1	1	294-100523	ND	
Methyl t-butyl ether	< PQL	ug/L	1	0.14	8021B	06/19/04	06/19/04	00:48	TLF	GC-V1	1	294-100523	ND	
Total Xylenes	< PQL	ug/L	0.6	0.51	8021B	06/19/04	06/19/04	00:48	TLF	GC-V1	1	294-100523	ND	
Gasoline Range Organics (C4 - C12)	< PQL	ug/L	50	14	8015M	06/19/04	06/19/04	00:48	TLF	GC-V1	1	294-100523	ND	
Surrogate Compounds	Result	Units	Control Limits		Method	Prep Date	Run Date	Run Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
a,a,a-Trifluorotoluene	87	%	70-130		8021B	06/19/04	06/19/04	00:48	TLF	GC-V1	1	294-100523		
a,a,a-Trifluorotoluene (8015 Surrogate)	113	%	70-130		8015M	06/19/04	06/19/04	00:48	TLF	GC-V1	1	294-100523		

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 IRVINE, CA 92618-2302
 Attn: ANJU FARFAN

Purgeable Aromatic Analysis (EPA Method 8020)

COC Number	---									Receive Date/Time	06/07/2004 @ 21:20			
Project Number	0843									Sampling Date/Time	06/07/2004 @ 11:08			
Sampling Location	---									Sample Depth	---			
Sampling Point	MW-4									Sample Matrix	Water			
Sampled By	JACK									BCL Sample ID	04-05824-3			
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date	Run Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Methyl t-butyl ether	< PQL	ug/L	1	0.14	8021B	06/18/04	06/18/04	19:32	TLF	GC-V1	1	294-100523	ND	

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04-05824-3



BC Laboratories, Inc

TRC ALTON GEOSCIENCE

21 TECHNOLOGY DRIVE

IRVINE, CA 92618-2302

Attn: ANJU FARFAN

Purgeable Aromatics and Total Petroleum Hydrocarbons

COC Number		---						Receive Date/Time		06/07/2004 @ 21:20				
Project Number		0843						Sampling Date/Time		06/07/2004 @ 11:08				
Sampling Location		---						Sample Depth		---				
Sampling Point		MW-4						Sample Matrix		Water				
Sampled By		JACK						BCL Sample ID		04-05824-3				
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date	Run Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quats
Benzene	< PQL	ug/L	0.3	0.074	8021B	06/18/04	06/18/04	19:32	TLF	GC-V1	1	294-100523	ND	
Toluene	< PQL	ug/L	0.3	0.15	8021B	06/18/04	06/18/04	19:32	TLF	GC-V1	1	294-100523	ND	
Ethylbenzene	< PQL	ug/L	0.3	0.13	8021B	06/18/04	06/18/04	19:32	TLF	GC-V1	1	294-100523	ND	
Methyl t-butyl ether	< PQL	ug/L	1	0.14	8021B	06/18/04	06/18/04	19:32	TLF	GC-V1	1	294-100523	ND	
Total Xylenes	< PQL	ug/L	0.6	0.51	8021B	06/18/04	06/18/04	19:32	TLF	GC-V1	1	294-100523	ND	
Gasoline Range Organics (C4 - C12)	< PQL	ug/L	50	14	8015M	06/18/04	06/18/04	19:32	TLF	GC-V1	1	294-100523	ND	
Surrogate Compounds	Result	Units	Control Limits		Method	Prep Date	Run Date	Run Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quats
a,a,a-Trifluorotoluene	71	%	70-130		8021B	06/18/04	06/18/04	19:32	TLF	GC-V1	1	294-100523		
a,a,a-Trifluorotoluene (8015 Surrogate)	90	%	70-130		8015M	06/18/04	06/18/04	19:32	TLF	GC-V1	1	294-100523		

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TRC ALTON GEOSCIENCE
 21 TECHNOLOGY DRIVE
 IRVINE, CA 92618-2302
 Attn: ANJU FARFAN

Purgeable Aromatic Analysis (EPA Method 8020)

COC Number		---								Receive Date/Time		06/07/2004 @ 21:20			
Project Number		0843								Sampling Date/Time		06/07/2004 @ 10:31			
Sampling Location		---								Sample Depth		---			
Sampling Point		MW-6								Sample Matrix		Water			
Sampled By		JACK								BCL Sample ID		04-05824-4			
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date	Run Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quais	
Methyl t-butyl ether	3200	ug/L	10	1.4	8021B	06/19/04	06/19/04	01:16	TLF	GC-V1	10	294-100523	ND	S01	

Flag	Explanations
S01	Sample result is not within the quantitation range of the method.
Comments	
PQL's and MDL's are raised due to sample dilution.	

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04-05824-4



BC Laboratories, Inc

TRC ALTON GEOSCIENCE

21 TECHNOLOGY DRIVE

IRVINE, CA 92618-2302

Attn: ANJU FARFAN

Volatile Organic Analysis (EPA Method 8260)

COC Number						---						Receive Date/Time		06/07/2004 @ 21:20	
Project Number						0843						Sampling Date/Time		06/07/2004 @ 10:31	
Sampling Location						---						Sample Depth		---	
Sampling Point						MW-6						Sample Matrix		Water	
Sampled By						JACK						BCL Sample ID		04-05824-4	
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date	Run Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
1,2-Dibromoethane	< PQL	ug/L	5	1.6	8260	06/16/04	06/16/04	06:30	LAM	MS-V4	10	319-100606	ND		
1,2-Dichloroethane	< PQL	ug/L	5	1.3	8260	06/16/04	06/16/04	06:30	LAM	MS-V4	10	319-100606	ND		
t-Amyl Methyl ether	< PQL	ug/L	10	1.1	8260	06/16/04	06/16/04	06:30	LAM	MS-V4	10	320-100573	ND		
t-Butyl alcohol	< PQL	ug/L	200	87	8260	06/16/04	06/16/04	06:30	LAM	MS-V4	10	320-100573	ND		
Diisopropyl ether	< PQL	ug/L	10	1.5	8260	06/16/04	06/16/04	06:30	LAM	MS-V4	10	320-100573	ND		
Ethanol	< PQL	ug/L	8000	330	8260	06/16/04	06/16/04	06:30	LAM	MS-V4	10	320-100573	ND		
Ethyl t-butyl ether	< PQL	ug/L	10	0.92	8260	06/16/04	06/16/04	06:30	LAM	MS-V4	10	320-100573	ND		
Methyl t-butyl ether	2900	ug/L	30	7.5	8260	06/16/04	06/16/04	06:02	LAM	MS-V4	50	319-100606	ND		
Surrogate Compounds	Result	Units	Control Limits		Method	Prep Date	Run Date	Run Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
1,2-Dichloroethane-d4	108	%	76-114		8260	06/16/04	06/16/04	06:30	LAM	MS-V4	10	319-100606			
Toluene-d8	94	%	88-110		8260	06/16/04	06/16/04	06:30	LAM	MS-V4	10	319-100606			
4-Bromofluorobenzene	94	%	86-115		8260	06/16/04	06/16/04	06:30	LAM	MS-V4	10	319-100606			

Comments
PQL's and MDL's are raised due to sample dilution.

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04-05824-4



BC Laboratories, Inc

TRC ALTON GEOSCIENCE
21 TECHNOLOGY DRIVE
IRVINE, CA 92618-2302

Attn: ANJU FARFAN

Purgeable Aromatics and Total Petroleum Hydrocarbons

COC Number	---									Receive Date/Time	06/07/2004 @ 21:20			
Project Number	0843									Sampling Date/Time	06/07/2004 @ 10:31			
Sampling Location	---									Sample Depth	---			
Sampling Point	MW-6									Sample Matrix	Water			
Sampled By	JACK									BCL Sample ID	04-05824-4			
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date	Run Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	< PQL	ug/L	3	0.74	8021B	06/19/04	06/19/04	01:16	TLF	GC-V1	10	294-100523	ND	
Toluene	< PQL	ug/L	3	1.5	8021B	06/19/04	06/19/04	01:16	TLF	GC-V1	10	294-100523	ND	
Ethylbenzene	< PQL	ug/L	3	1.3	8021B	06/19/04	06/19/04	01:16	TLF	GC-V1	10	294-100523	ND	
Methyl t-butyl ether	3200	ug/L	10	1.4	8021B	06/19/04	06/19/04	01:16	TLF	GC-V1	10	294-100523	ND	S01
Total Xylenes	< PQL	ug/L	6	5.1	8021B	06/19/04	06/19/04	01:16	TLF	GC-V1	10	294-100523	ND	
Gasoline Range Organics (C4 - C12)	2500	ug/L	500	140	8015M	06/19/04	06/19/04	01:16	TLF	GC-V1	10	294-100523	ND	
Surrogate Compounds	Result	Units	Control Limits		Method	Prep Date	Run Date	Run Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
a,a,a-Trifluorotoluene	83	%	70-130		8021B	06/19/04	06/19/04	01:16	TLF	GC-V1	10	294-100523		
a,a,a-Trifluorotoluene (8015 Surrogate)	101	%	70-130		8015M	06/19/04	06/19/04	01:16	TLF	GC-V1	10	294-100523		

Flag	Explanations
S01	Sample result is not within the quantitation range of the method.

California DOHS Certification #1186

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04-05824-4

Submission #: 04-05824

Project Code: _____

TB Batch # _____

SHIPPING INFORMATION

Federal Express UPS Hand Delivery
BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER

Ice Chest None
Box Other (Specify) _____

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____
Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Ice Chest ID: W
Temperature: 0.8 °C
Thermometer ID: 80

Emissivity: .85
Container: VOA

Date/Time: 6-7-04 2:35
Analyst Init: ZA

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
100ml TOTAL ORGANIC CARBON										
QT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	19	19	19	19						
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 801SM										
QT QA/QC										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

CHK BY: SLC DISTRIBUTION: 98
SUB-OUT

Comments: m -2 One of the head caps is open & broken!
Sample Numbering Completed By: OTO Date/Time: 6/8/04 09:35

BC LABORATORIES, INC.

4100 Atlas Court □ Bakersfield CA 93308
(661) 327-4311 □ FAX (661) 327-1913

CHAIN OF CUSTODY

04-05824

Analysis Requested

Circle one: Phillips 66 / Unocal	Consultant Firm: TRC	MATRIX (G/W)	BTEX/MTBE by 8021B, Gas by 8015	Turnaround Time Requested
Address: 1629 WEBSTER ST	21 Technology Drive Irvine, CA 92618-2302 Attn: Anju Farfan	Ground-water	TPH GAS by 8015M	
City: ALAMEDA	4-digit site#: 0843 Workorder # 2807 TRC 500	(S) Soil	TPH DIESEL by 8015	
State: CA Zip:	Project #: 41050001	(V/W) Waste-water	8260 full list w/ MTBE & oxygenates	
Phillips 66 /Unocal Mgr:	Sampler Name: JALK	(SL) Sludge	BTEX/MTBE/OXYS BY 8260B	

Lab#	Sample Description	Field Point Name	Date & Time Sampled		BTEX/MTBE by 8021B, Gas by 8015	TPH GAS by 8015M	TPH DIESEL by 8015	8260 full list w/ MTBE & oxygenates	BTEX/MTBE/OXYS BY 8260B	ETHANOL by 8260B	TPPH by 8260B	8 OXYS BY 8260B	BTEX/MTBE BY 8021
-1	MW-2A		6/7 1130	G.W	X							X	X
-2	MW-35		1000										
-3	MW-4		1108										
-4	MW-6		1031										

Comments: "RUN 8 OXYS BY 8260 ON ALL 8021 MTBE HITS." FOR WELLS MW-4,5,6 GLOBAL ID: T0600102263	Relinquished by (Signature): <i>John Doe</i>	Received by: <i>REFUGÉ</i>	Date & Time: 1240
	Relinquished by (Signature): <i>Remona Coome</i>	Received by: <i>Z Johnson</i>	Date & Time: 6-7-04 1445
	Relinquished by (Signature): <i>Z Johnson</i>	Received by: <i>M. O'Neil</i>	Date & Time: 6-7-04 2120

(A) = ANALYSIS (C) = CONTAINER (P) = PRESERVATIVE

STATEMENTS

Purge Water Transport and Disposal

Non-hazardous groundwater produced during purging and sampling was accumulated at TRC's groundwater monitoring facility at Concord, California, for transportation by Onyx Transportation, Inc., to the ConocoPhillips Refinery at Rodeo, California. Disposal at the Rodeo facility was authorized by ConocoPhillips in accordance with "ESD Standard Operating Procedures – Water Quality and Compliance", as revised on February 7, 2003. Documentation of compliance with ConocoPhillips requirements is provided by an ESD Form R-149, which is on file at TRC's Concord Office. Purge water suspected of containing potentially hazardous material, such as liquid-phase hydrocarbons, was accumulated separately in a drum for transportation and disposal by Filter Recycling, Inc.

Limitations

The fluid level monitoring and groundwater sampling activities summarized in this report have been performed under the responsible charge of a California Registered Geologist or Registered Civil Engineer and have been conducted in accordance with current practice and the standard of care exercised by geologists and engineers performing similar tasks in this area. No warranty, express or implied, is made regarding the conclusions and professional opinions presented in this report. The conclusions are based solely upon an analysis of the observed conditions. If actual conditions differ from those described in this report, our office should be notified.