

R0450



76 Broadway
Sacramento, CA 95818
phone 916.558.7676
fax 916.558.7639

January 26, 2005

Mr. Don Hwang
Alameda County Health Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Re: **Document Transmittal**
Fuel Leak Case
76 Station #0843
1629 Webster Street
Alameda, CA

Dear Mr. Hwang:

Please find attached Miller Brook's *Quarterly Summary Report, dated 1/26/05*, and TRC's *Quarterly Monitoring Report, dated 1/10/05* for the above referenced site. I declare, under penalty of perjury, that to the best of my knowledge the information and/or recommendations contained in the attached proposal or report is true and correct.

If you have any questions or need additional information, please call me at (916) 558-7666.

Sincerely,

Thomas H. Kosel
Site Manger, Risk Management and Remediation
ConocoPhillips
76 Broadway, Sacramento, CA 95818

Attachment

cc: Jed Douglas, MB



January 17, 2005

Mr. Donald Hwang
Alameda County Department of Public Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502


RE: **Quarterly Summary Report-Fourth Quarter 2004**
Miller Brooks Environmental, Inc. Project No.: 06-459-2349-03

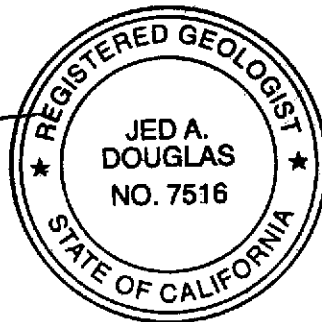
Dear Mr. Hwang:

On behalf of ConocoPhillips Company (ConocoPhillips), Miller Brooks Environmental, Incorporated (Miller Brooks) is forwarding the quarterly summary report for the following location:

<u>Service Station</u>	<u>Location</u>
Former 76 Service Station No. 82349 (0843) COP NO. WNO.2807	1629 Webster Street Alameda, California

Sincerely,
Miller Brooks Environmental, Incorporated


Jed Douglas, R.G. No. 7516
Senior Geologist



Attachment: Site Plan

cc: Mr. Thomas Kosel, ConocoPhillips
Mr. George Leyva, RWQCB – SF Bay Region, 1515 Clay Street Suite 1400, Oakland,
CA 94612

QUARTERLY SUMMARY REPORT
Fourth Quarter 2004

Former 76 Service Station No. 2349 (0843)
1629 Webster Street
Alameda, California

City/County ID #: Alameda

County: Alameda

PREVIOUS ASSESSMENT

In June 1998, Tosco Marketing Company (Tosco, now ConocoPhillips), removed two 10,000-gallon gasoline underground storage tanks (USTs), one 550-gallon used-oil UST, product lines, and dispensers. Two holes approximately 3/4-inch in diameter were observed in the used-oil tank during removal. No holes or other evidence of leakage were observed in the remaining tanks or piping. Low levels of hydrocarbon impact were reported in the soil samples collected during UST removal activities.

In March 1999, Environmental Resolutions Inc. (ERI) installed four on-site groundwater monitoring wells (MW1 through MW4) at the subject site. In December 1999, ERI installed two off-site monitoring wells (MW5 and MW6) at the subject site.

In March 2001, ERI performed an underground utility survey to identify and locate underground utility lines beneath and in the vicinity of the site that may provide potential preferential pathways for groundwater flow.

In May 2001, ERI advanced five direct-push soil borings (GP1 through GP5), to evaluate whether underground utility trenches in the vicinity of the site may provide preferential pathways for groundwater flow and the migration of dissolved hydrocarbons. The results of the investigation indicated that there was insufficient evidence to suggest that underground utility lines were providing preferential pathways for the off-site migration of dissolved petroleum hydrocarbons.

In December 2001, ERI advanced twelve direct-push soil borings (GP6 through GP17) to further assess the extent of residual hydrocarbons in the vadose zone beneath the site. The results of the investigation indicated that the extent of residual hydrocarbons detected during previous investigations is limited and that remedial action for residual gasoline hydrocarbons at the site was not warranted.

In December 2002, ERI destroyed one on-site monitoring well (MW2), performed a remedial excavation of hydrocarbon-impacted soil in the vicinity of the former eastern dispenser island, and replaced former well MW2 with on-site backfill monitoring well MW2A.

ERI submitted a *Request and Work Plan for Case Closure* to the Alameda County Health Care Services Agency, dated September 10, 2003. The report summarizes why no further action is needed for the site, and details plans to destroy the existing wells upon regulatory acceptance for no further action.

SENSITIVE RECEPTORS

In June and July 2002, ERI conducted a groundwater receptor survey. Three irrigation wells were located within a ½ mile radius of the site. The wells are reportedly located approximately 1,980 feet west, 2,245 feet west, and 2,245 feet southwest of the site, cross or upgradient of the site.

MONITORING AND SAMPLING

Quarterly groundwater monitoring and sampling were initiated in March 1999. During the most recent groundwater monitoring and sampling event, performed on December 11, 2004, groundwater was present at depths ranging from 5.53 to 6.49 feet below the top of casing (TOC). The groundwater flow direction was reported towards the north with a gradient of 0.007 ft/ft, which is consistent with the last monitoring event. During the December 11, 2004 sampling event, total petroleum hydrocarbons as gasoline (TPHg) and methyl tertiary butyl ether (MTBE) were detected at concentrations up to 1,800 and 2,700 micrograms per liter (µg/L), respectively. Benzene was not reported in any of the groundwater samples.

REMEDIATION STATUS

Approximately 338 tons of hydrocarbon impacted soil and backfill were removed from beneath the former USTs, dispensers, and product lines during UST removal activities at the site. Approximately 292 tons of hydrocarbon-impacted soil was removed from beneath the former eastern dispenser island during the December 2002 excavation.

CHARACTERIZATION STATUS

Groundwater appears to be delineated at the site based on the results from well MW-5. However, based on groundwater concentrations in well MW-6 further assessment is necessary to determine if the subsurface utilities are acting as preferential pathways.

RECENT CORRESPONDENCE

There was no correspondence during the reporting period.

THIS QUARTER ACTIVITIES (Fourth Quarter 2004)

1. The groundwater monitoring well network was monitored and sampled by TRC Companies Inc. (TRC).

WASTE DISPOSAL SUMMARY

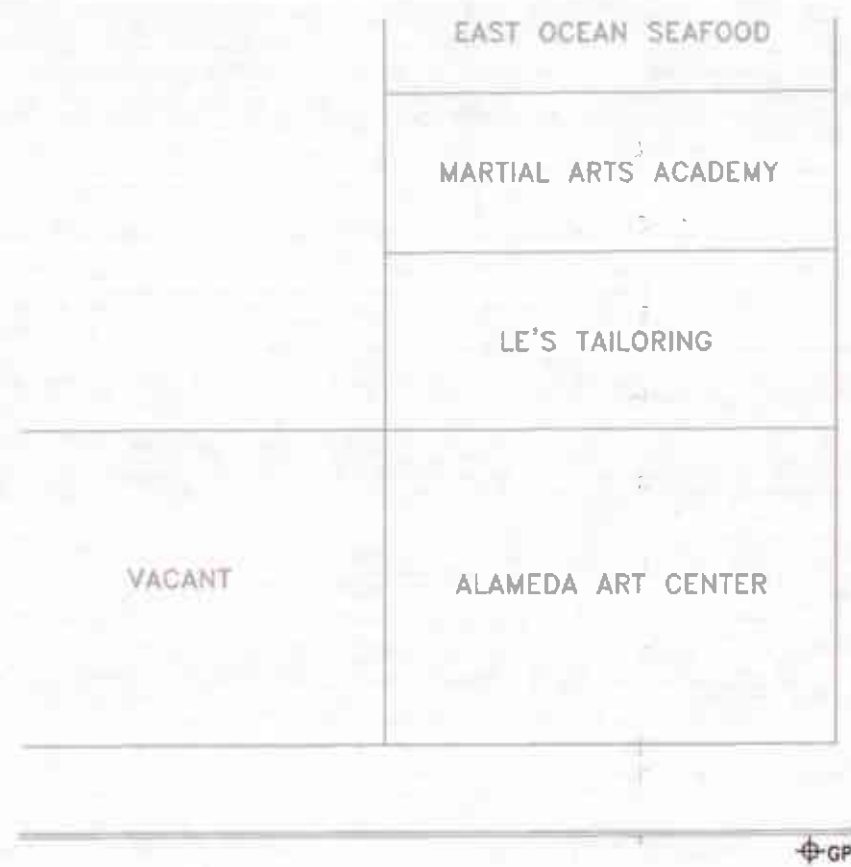
No waste was generated during this reporting period.

NEXT QUARTER ACTIVITIES (First Quarter 2005)

1. The monitoring well network will be monitored and sampled by TRC.
2. Pending regulatory approval of Miller Brooks' Work Plan for Additional Subsurface Site Assessment Activities dated June 23, 2004, ConocoPhillips plans to install one groundwater monitoring well northwest of MW-5 in an attempt to delineate the northern extent of the hydrocarbon plume and determine if subsurface utilities are acting as a preferential pathway for hydrocarbon migration.
3. ConocoPhillips has selected ATC Associates, Inc. to be the new lead consultant for this site.

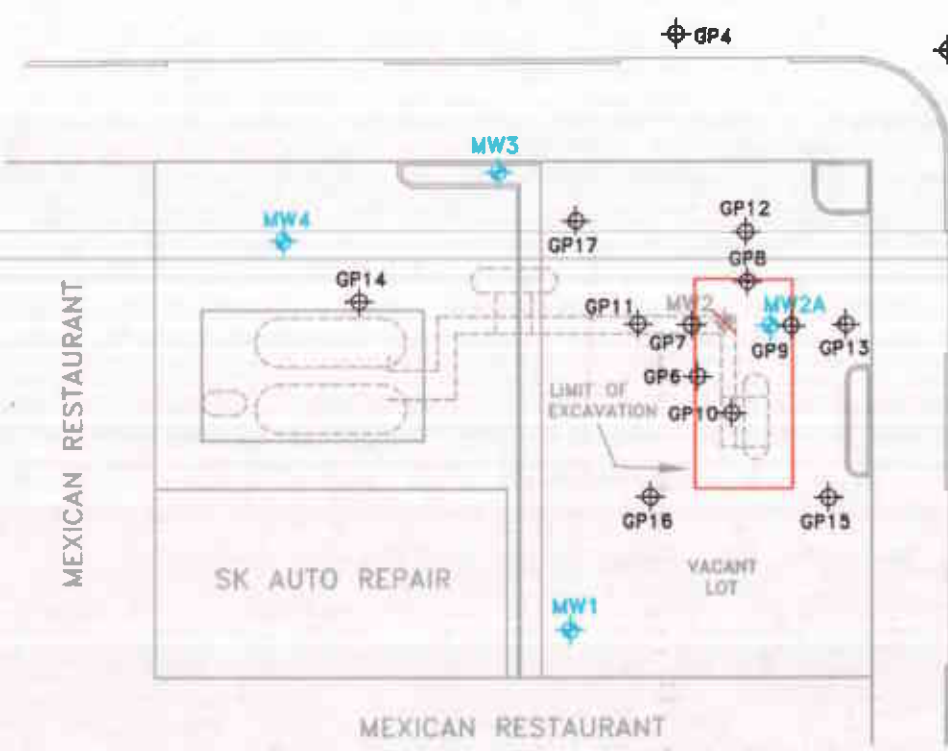
CONSULTANT: Miller Brooks Environmental, Incorporated

10-11.dwg-08/21/00



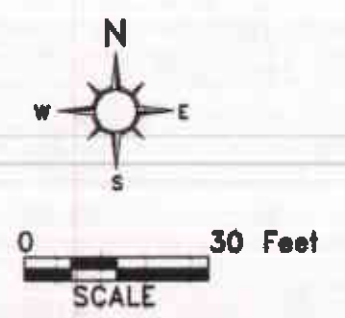
- LEGEND**
- MW1 GROUNDWATER MONITORING WELL
 - MW2 DESTROYED WELL
 - GP1 SOIL BORING
 - PROPOSED GROUNDWATER MONITORING WELL
 - FORMER DISPENSER ISLAND
 - FORMER USED OIL UST
 - FORMER GASOLINE UNDERGROUND STORAGE TANK (UST)
 - FORMER PRODUCT LINES

PACIFIC AVENUE



HAWTHORN SUITES LTD.
(FORMER GAS STATION)

WEBSTER STREET



	DRAWN BY: AIL	SITE PLAN	FIGURE 2
	DATE: 04/12/04		
720 SOUTHPOINT BLVD., SUITE 207 PETALUMA, CA. 94954 (707) 765-0466	REVISED BY: DWB	FORMER 76 STATION 82340 (0843) 1629 WEBSTER STREET ALAMEDA, CA.	DATE PLOTTED: 04/15/04
PROJECT NO. 06-458-2349-01	REVISED: 06/22/04		
	APPROVED BY:	FILE: K:\DWG\C-P\NO. 2340 (1629 WEBSTER STREET)\SITE PLAN	

R0450



Customer-Focused Solutions

January 10, 2005

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
OCTOBER THROUGH DECEMBER 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: Mr. Jed Douglas, Miller Brooks Environmental, Inc. (2 copies)
Mr. George Leyva, RWQCB - San Francisco Bay Region

Enclosures
20-0400/0843R05.QMS



Customer-Focused Solutions

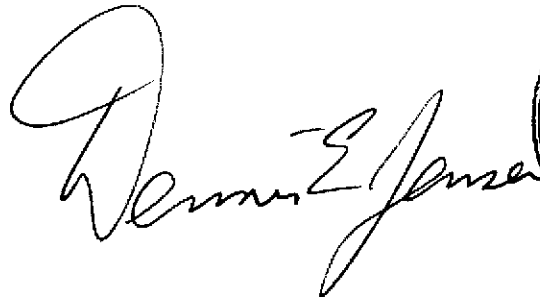
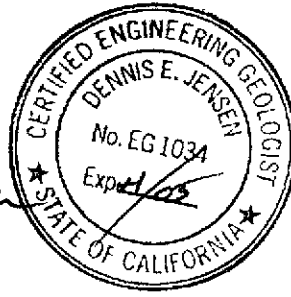
**QUARTERLY MONITORING REPORT
OCTOBER THROUGH DECEMBER 2004**

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
January 10, 2005

LIST OF ATTACHMENTS

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

**Summary of Gauging and Sampling Activities
October 2004 through December 2004
Former 76 Station 0843
1629 Webster Street
Alameda, CA**

Project Coordinator: **Thomas Kosel**
Telephone: **916-558-7666**

Water Sampling Contractor: **TRC**
Compiled by: **Valentina Tobon**

Date(s) of Gauging/Sampling Event: **12/11/04**

Sample Points

Groundwater wells: **4 onsite, 2 offsite** Wells gauged: **6** Wells sampled: **3**
Purging method: **Diaphragm pump/bailer**
Purge water disposal: **Onyx/Rodeo Unit 100**
Other Sample Points: **0** Type: **n/a**

Liquid Phase Hydrocarbons (LPH)

Wells with LPH: **0** Maximum thickness (feet): **n/a**
LPH removal frequency: **n/a** Method: **n/a**
Treatment or disposal of water/LPH: **n/a**

Hydrogeologic Parameters

Depth to groundwater (below TOC): Minimum: **5.53 feet** Maximum: **6.49 feet**
Average groundwater elevation (relative to available local datum): **9.01 feet**
Average change in groundwater elevation since previous event: **0.89 feet**
Interpreted groundwater gradient and flow direction:
 Current event: **0.007 ft/ft, north**
 Previous event: **0.008 ft/ft, north (09/17/04)**

Selected Laboratory Results

Wells with detected **Benzene**: **0** Wells above MCL (1.0 µg/l): **n/a**
 Maximum reported benzene concentration: **n/a**

Wells with **TPPH 8260B** **2** Maximum: **1,800 µg/l (MW-6)**
Wells with **MTBE** **3** Maximum: **2,700 µg/l (MW-6)**

Notes:

MW-1=Sampled Annually, MW-3=Sampled Annually, MW-5=Sampled Annually,

TABLES

TABLE KEY

STANDARD ABBREVIATIONS

-	=	not analyzed, measured, or collected
LPH	=	liquid-phase hydrocarbons
Trace	=	less than 0.01 foot of LPH in well
µg/l	=	micrograms per liter (approx. equivalent to parts per billion, ppb)
mg/l	=	milligrams per liter (approx. equivalent to parts per million, ppm)
ND <	=	not detected at or above laboratory detection limit
TOC	=	top of casing (surveyed reference elevation)

ANALYTES

BTEX	=	benzene, toluene, ethylbenzene, and (total) xylenes
DIPE	=	di-isopropyl ether
ETBE	=	ethyl tertiary butyl ether
MTBE	=	methyl tertiary butyl ether
PCB	=	polychlorinated biphenyls
PCE	=	tetrachloroethene
TBA	=	tertiary butyl alcohol
TCA	=	trichloroethane
TCE	=	trichloroethene
TPH-G	=	total petroleum hydrocarbons with gasoline distinction
TPH-D	=	total petroleum hydrocarbons with diesel distinction
TPPH	=	total purgeable petroleum hydrocarbons
TRPH	=	total recoverable petroleum hydrocarbons
TAME	=	tertiary amyl methyl ether
1,1-DCA	=	1,1-dichloroethane
1,2-DCA	=	1,2-dichloroethane (same as EDC, ethylene dichloride)
1,1-DCE	=	1,1-dichloroethene
1,2-DCE	=	1,2-dichloroethene (cis- and trans-)

NOTES

1. Elevations are in feet above mean sea level. Depths are in feet below surveyed top-of-casing.
2. Groundwater elevations for wells with LPH are calculated as: $\text{Surface Elevation} - \text{Measured Depth to Water} + \frac{\text{Dp} \times \text{LPH Thickness}}$, where Dp is the density of the LPH, if known. A value of 0.75 is used for gasoline and when the density is not known. A value of 0.83 is used for diesel.
3. Wells with LPH are generally not sampled for laboratory analysis (see General Field Procedures).
4. Comments shown on tables are general. Additional explanations may be included in field notes and laboratory reports, both of which are included as part of this report.
5. A "J" flag indicates that a reported analytical result is an estimated concentration value between the method detection limit (MDL) and the practical quantification limit (PQL) specified by the laboratory.
6. Other laboratory flags (qualifiers) may have been reported. See the official laboratory report (attached) for a complete list of laboratory flags.
7. Concentration graphs based on tables (presented following Figures) show non-detect results prior to the Second Quarter 2000 plotted at fixed values for graphical display. Non-detect results reported since that time are plotted at reporting limits stated in the official laboratory report.
8. Groundwater vs. Time graphs may be corrected for apparent level changes due to resurvey.
9. Historical data has been validated for this report. Values presented in the following tables supercede those from previous reports.

REFERENCE

TRC began groundwater monitoring and sampling for Former 76 Station 0843 in October 2003. Historical data compiled prior to that time were provided by Gettler-Ryan Inc.

Table 1
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
December 11, 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)												
12/11/04	16.18	6.49	0.00	9.69	1.09	--	--	--	--	--	--	--	--	Sampled Annually
MW-2A		(Screen Interval in feet: 5-11.5)												
12/11/04	15.56	5.84	0.00	9.72	1.32	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.2	
MW-3		(Screen Interval in feet: 5.0-20.0)												
12/11/04	15.11	5.94	0.00	9.17	--	--	--	--	--	--	--	--	--	Sampled Annually
MW-4		(Screen Interval in feet: 5.0-20.5)												
12/11/04	15.17	6.01	0.00	9.16	0.85	--	350	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	380	
MW-5		(Screen Interval in feet: 5-20)												
12/11/04	13.34	5.53	0.00	7.81	0.57	--	--	--	--	--	--	--	--	Sampled Annually
MW-6		(Screen Interval in feet: 5-20)												
12/11/04	14.08	5.60	0.00	8.48	0.60	--	1800	ND<10	ND<10	ND<10	ND<20	--	2700	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
March 1999 Through December 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)														
03/05/99	16.18	--	--	--	--	86.6	--	ND	2.04	ND	4.06	--	23.9	
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	5.73	0.00	10.45	1.81	ND	--	ND	ND	ND	ND	ND	--	
05/23/01	16.18	6.43	0.00	9.75	-0.70	ND	--	ND	ND	ND	ND	ND	--	
09/24/01	16.18	7.12	0.00	9.06	-0.69	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
12/10/01	16.18	6.89	0.00	9.29	0.23	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
03/11/02	16.18	5.61	0.00	10.57	1.28	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
06/07/02	16.18	5.71	0.00	10.47	-0.10	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
09/03/02	16.18	--	--	--	--	--	--	--	--	--	--	--	--	Not monitored/sampled
12/12/02	16.18	7.80	0.00	8.38	--	--	--	--	--	--	--	--	--	No longer sampled
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
09/17/04	16.18	7.58	0.00	8.60	-0.97	--	--	--	--	--	--	--	--	Sampled Annually
12/11/04	16.18	6.49	0.00	9.69	1.09	--	--	--	--	--	--	--	--	Sampled Annually

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
March 1999 Through December 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)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-2		(Screen Interval in feet: 4.5-20.5)												
03/05/99	15.57	--	0.00	--	--	34400	--	2070	7710	2340	8240	--	8460	
06/03/99	15.57	5.96	0.00	9.61	--	51200	--	1820	7570	2510	7320	6460	8800	
09/02/99	15.57	6.85	0.00	8.72	-0.89	17000	--	1000	3100	1400	3700	4000	3720	
12/14/99	15.57	7.65	0.00	7.92	-0.80	83000	--	3000	22000	4500	17000	9100	11000	
03/14/00	15.57	5.26	0.00	10.31	2.39	31000	--	1600	4600	2300	7300	5700	8700	
05/31/00	15.57	5.60	0.00	9.97	-0.34	9970	--	598	1030	487	2060	2500	1670	
08/29/00	15.57	6.35	0.00	9.22	-0.75	7900	--	390	1500	280	1900	1800	1300	
12/01/00	15.57	7.06	0.00	8.51	-0.71	87500	--	1860	17400	5590	19400	6220	3790	
03/17/01	15.57	5.98	0.00	9.59	1.08	4310	--	371	59.0	280	682	321	433	
05/23/01	15.57	6.97	0.00	8.60	-0.99	45400	--	374	4490	2790	10900	ND	406	
09/24/01	15.57	7.56	0.00	8.01	-0.59	76000	--	430	13000	4700	18000	ND<2000	480	
12/10/01	15.57	6.52	0.00	9.05	1.04	82000	--	320	9100	4400	16000	ND<2500	270	
03/11/02	15.57	5.51	0.00	10.06	1.01	14000	--	75	1400	1100	3600	ND<250	150	
06/07/02	15.57	5.73	0.00	9.84	-0.22	14000	--	120	1200	1400	4700	540	200	
09/03/02	15.57	6.81	0.00	8.76	-1.08	10000	--	150	1200	610	2800	510	460	
12/12/02	15.57	--	--	--	--	--	--	--	--	--	--	--	--	Destroyed, replaced with MW-2A
MW-2a		(Screen Interval in feet: 5-11.5)												
12/12/02	15.56	7.45	0.00	8.11	--	3400	--	80	260	210	1000	380	400	
03/13/03	--	5.85	0.00	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	1.8	2.4	2.4	
06/12/03	--	6.08	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	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
March 1999 Through December 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-2A	continued													
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	
09/17/04	15.56	7.16	0.00	8.40	-0.95	--	230	3.5	6.1	13	41	--	83	
12/11/04	15.56	5.84	0.00	9.72	1.32	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.2	
MW-3	(Screen Interval in feet: 5.0-20.0)													
03/05/99	15.11	--	0.00	--	--	135	--	ND	ND	ND	4.84	--	2.46	
06/03/99	15.11	5.57	0.00	9.54	--	ND	--	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	--	
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	--	
08/29/00	15.11	6.06	0.00	9.05	-0.48	ND	--	ND	ND	ND	ND	ND	ND	
12/01/00	15.11	6.76	0.00	8.35	-0.70	ND	--	ND	ND	ND	ND	ND	--	
03/17/01	15.11	5.09	0.00	10.02	1.67	ND	--	ND	ND	ND	ND	ND	--	
05/23/01	15.11	5.72	0.00	9.39	-0.63	ND	--	ND	ND	ND	ND	ND	--	
09/24/01	15.11	6.34	0.00	8.77	-0.62	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
12/10/01	15.11	6.31	0.00	8.80	0.03	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
03/11/02	15.11	5.15	0.00	9.96	1.16	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
06/07/02	15.11	5.45	0.00	9.66	-0.30	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
12/12/02	15.11	7.15	0.00	7.96	--	--	--	--	--	--	--	--	--	No longer sampled
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	--	--	--	--	--	--	--	--	
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

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
March 1999 Through December 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-3 continued														
06/07/04	15.11	5.92	0.00	9.19	-0.41	--	--	--	--	--	--	--	--	Monitored Only
09/17/04	15.11	--	--	--	--	--	--	--	--	--	--	--	--	Unable to locate
12/11/04	15.11	5.94	0.00	9.17	--	--	--	--	--	--	--	--	--	Sampled Annually
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	5.01	0.00	10.16	1.78	ND	--	ND	ND	ND	ND	ND	--	
05/23/01	15.17	5.78	0.00	9.39	-0.77	ND	--	ND	ND	ND	ND	ND	--	
09/24/01	15.17	6.42	0.00	8.75	-0.64	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
12/10/01	15.17	6.41	0.00	8.76	0.01	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1700	1300	
03/11/02	15.17	5.05	0.00	10.12	1.36	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
06/07/02	15.17	5.42	0.00	9.75	-0.37	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
09/03/02	15.17	6.50	0.00	8.67	-1.08	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
12/12/02	15.17	7.18	0.00	7.99	-0.68	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.9	3.3	
03/13/03	15.17	5.42	0.00	9.75	1.76	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	--	
06/12/03	15.17	5.60	0.00	9.57	-0.18	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	-0.47	--	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	--	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
March 1999 Through December 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-4 continued														
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	--	
09/17/04	15.17	6.86	0.00	8.31	-1.04	--	56	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	10	
12/11/04	15.17	6.01	0.00	9.16	0.85	--	350	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	380	
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	5.36	0.00	7.98	0.59	ND	--	ND	ND	ND	ND	ND	--	
05/23/01	13.34	5.09	0.00	8.25	0.27	ND	--	ND	ND	ND	ND	ND	--	
09/24/01	13.34	5.58	0.00	7.76	-0.49	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
12/10/01	13.34	5.51	0.00	7.83	0.07	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
03/11/02	13.34	4.70	0.00	8.64	0.81	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
06/07/02	13.34	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible - paved over
09/03/02	13.34	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible - paved over
12/12/02	13.34	6.42	0.00	6.92	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	--	
03/13/03	13.34	5.12	0.00	8.22	1.30	ND<50	--	ND<0.50	0.54	ND<0.50	ND<0.50	ND<2.0	--	
06/12/03	13.34	5.24	0.00	8.10	-0.12	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	-0.29	--	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	--	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
March 1999 Through December 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-5 continued														
09/17/04	13.34	6.10	0.00	7.24	-0.75	--	--	--	--	--	--	--	--	Sampled Annually
12/11/04	13.34	5.53	0.00	7.81	0.57	--	--	--	--	--	--	--	--	Sampled Annually
MW-6 (Screen Interval in feet: 5-20)														
12/14/99	14.08	6.64	0.00	7.44	--	ND	--	ND	ND	ND	ND	11000	18000	
03/14/00	14.08	4.72	0.00	9.36	1.92	ND	--	ND	ND	ND	ND	19000	21000	
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	6.02	0.00	8.06	0.09	18700	--	2950	989	1040	3000	10200	11500	
05/23/01	14.08	5.82	0.00	8.26	0.20	ND	--	ND	ND	ND	ND	4660	--	
09/24/01	14.08	6.59	0.00	7.49	-0.77	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	160	190	
12/10/01	14.08	6.50	0.00	7.58	0.09	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3200	2400	
03/11/02	14.08	4.81	0.00	9.27	1.69	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	92	120	
06/07/02	14.08	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible - paved over
09/03/02	14.08	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible - paved over
12/12/02	14.08	6.51	0.00	7.57	--	590	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1500	6200	
03/13/03	14.08	5.20	0.00	8.88	0.00	1600	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	4900	4100	
D 03/13/03	14.08	5.20	0.00	8.88	1.31	--	--	--	--	--	--	--	5100	
06/12/03	14.08	5.38	0.00	8.70	-0.18	1600	--	ND<10	ND<10	ND<10	ND<10	5200	3700	
09/12/03	14.08	6.29	0.00	7.79	-0.91	--	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	
09/17/04	14.08	6.20	0.00	7.88	-0.75	--	1300	ND<10	ND<10	ND<10	ND<20	--	2000	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
March 1999 Through December 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-6 continued 12/11/04	14.08	5.60	0.00	8.48	0.60	--	1800	ND<10	ND<10	ND<10	ND<20	--	2700	

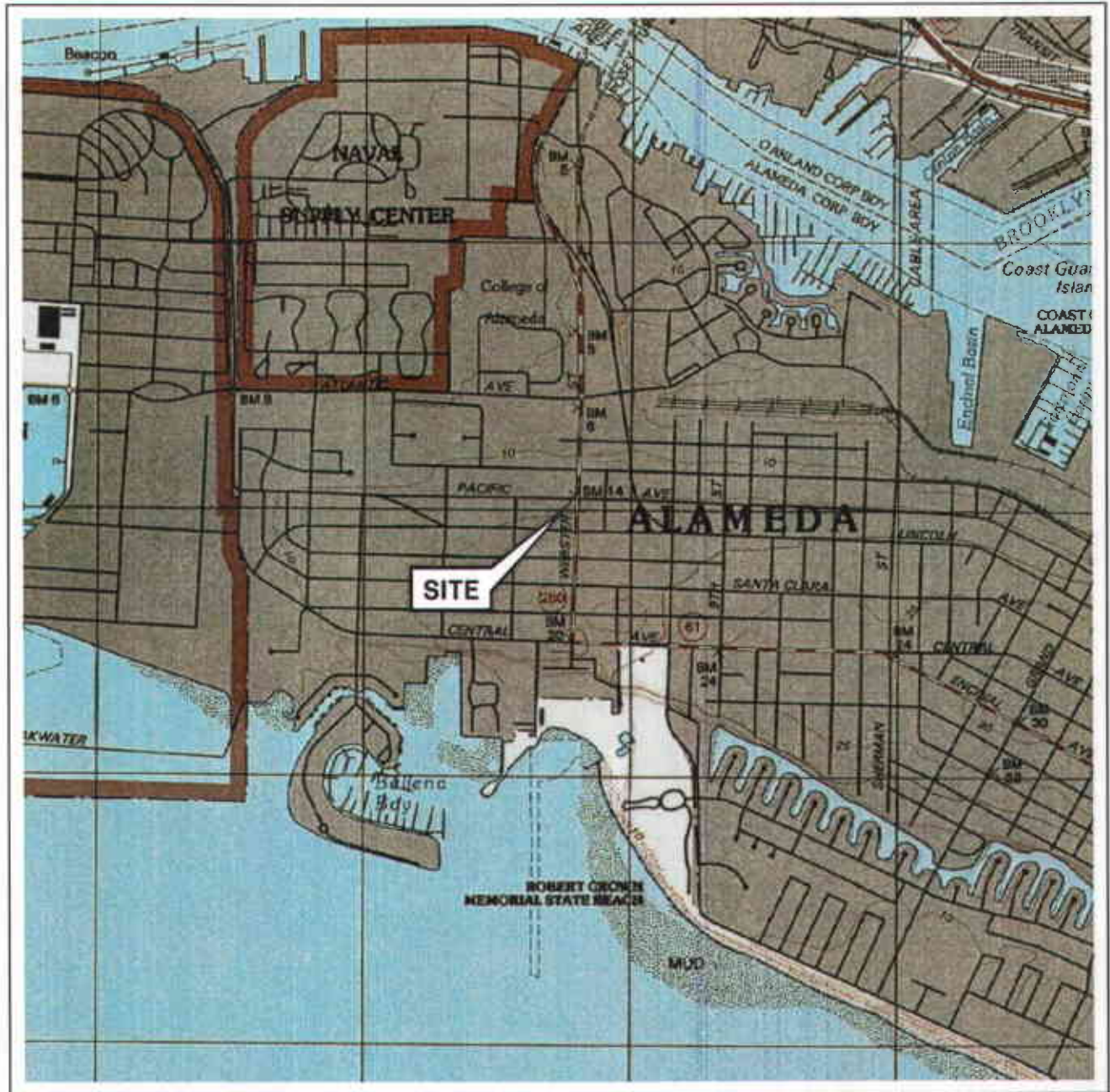
Table 3
ADDITIONAL ANALYTICAL RESULTS
Former 76 Station 0843

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 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<50000000
12/10/01	ND<25	ND<25	ND<25	ND<500	ND<25	ND<25	ND<12000000
03/11/02	ND<20	ND<20	ND<20	ND<1000	ND<20	ND<20	ND<5000000
06/07/02	ND<25	ND<25	ND<25	ND<1000	ND<25	ND<25	ND<2000000
09/03/02	ND<20	ND<20	ND<20	ND<1000	ND<20	ND<20	ND<5000000
MW-2a							
12/12/02	2.3	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500000
03/13/03	ND<2.0	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500000
06/12/03	ND<2.0	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500000
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
09/17/04	--	--	ND<0.50	6.7	ND<1.0	ND<0.50	ND<50
12/11/04	--	--	ND<0.50	ND<5.0	ND<1.0	ND<0.50	ND<50

Table 3
ADDITIONAL ANALYTICAL 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 8260B (µg/l)
MW-3							
09/02/99	--	--	ND	ND	ND	ND	ND
MW-4							
09/02/99	--	--	ND	ND	ND	ND	ND
12/10/01	ND<14	ND<14	ND<14	ND<290	ND<14	ND<14	ND<7100000
12/12/02	ND<2.0	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500000
09/12/03	--	--	--	--	--	--	ND<500
09/17/04	--	--	ND<0.50	ND<5.0	ND<1.0	ND<0.50	ND<50
12/11/04	--	--	ND<2.5	ND<25	ND<5.0	ND<2.5	ND<250
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<1000000
12/10/01	ND<25	ND<25	ND<25	ND<500	ND<25	ND<25	ND<12000000
03/11/02	ND<2.0	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500000
12/12/02	ND<200	ND<200	ND<200	ND<10000	ND<200	ND<200	ND<50000000
03/13/03	ND<100	ND<100	ND<100	ND<5000	ND<100	ND<100	ND<25000000
06/12/03	ND<40	ND<40	ND<40	ND<2000	ND<40	ND<40	ND<10000000
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
09/17/04	--	--	ND<10	ND<100	ND<20	ND<10	ND<1000
12/11/04	--	--	ND<10	ND<100	ND<20	ND<10	ND<1000

FIGURES



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



SCALE 1:24,000



QUADRANGLE LOCATION

VICINITY MAP

SOURCE:

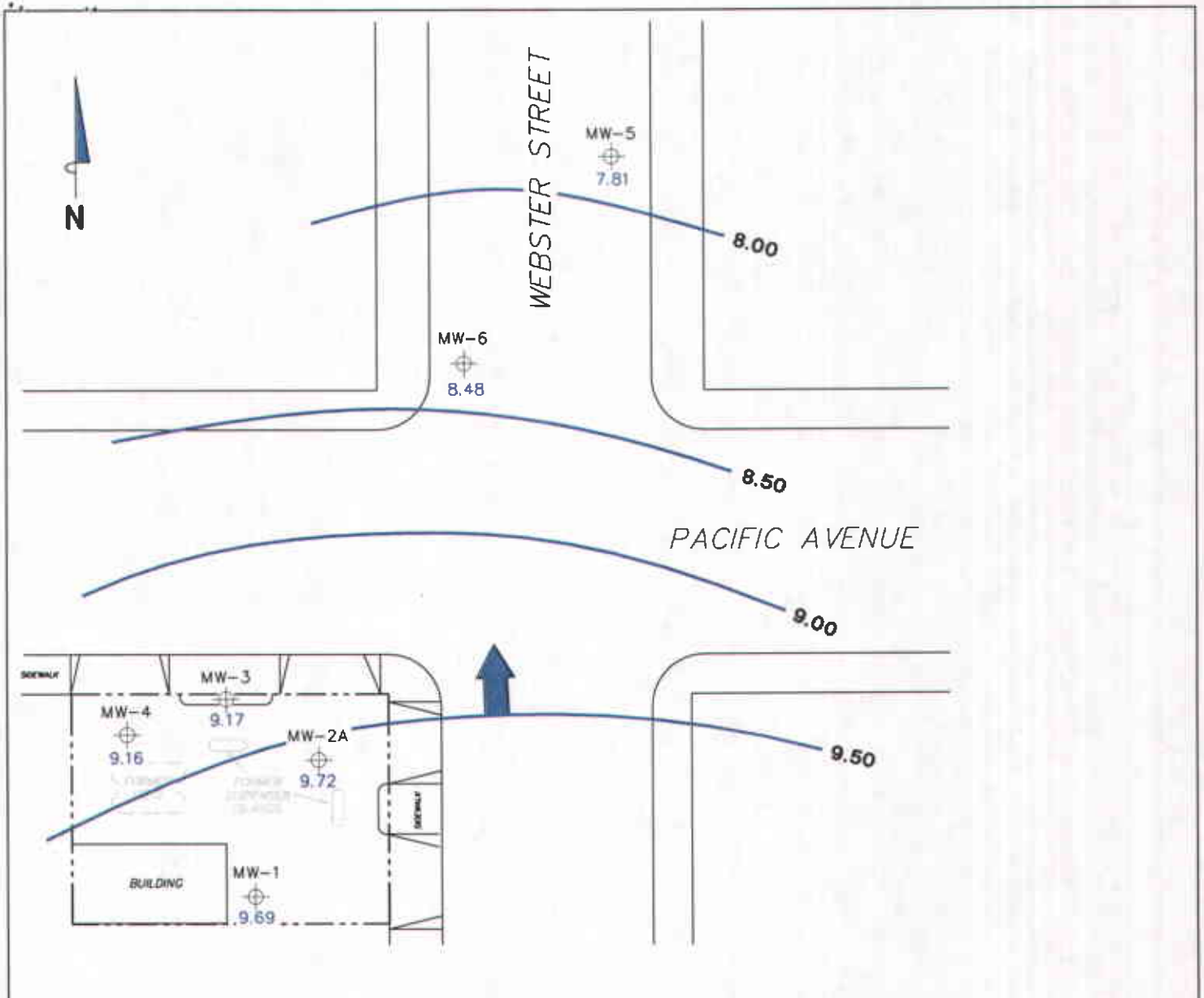
United States Geological Survey
7.5 Minute Topographic Map:
Oakland West Quadrangle

Former 76 Station 0843
1629 Webster Street
Alameda, California

TRC

FIGURE 1




PS = 1:1



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
December 11, 2004**

Former 76 Station 0843
1629 Webster Street
Alameda, California

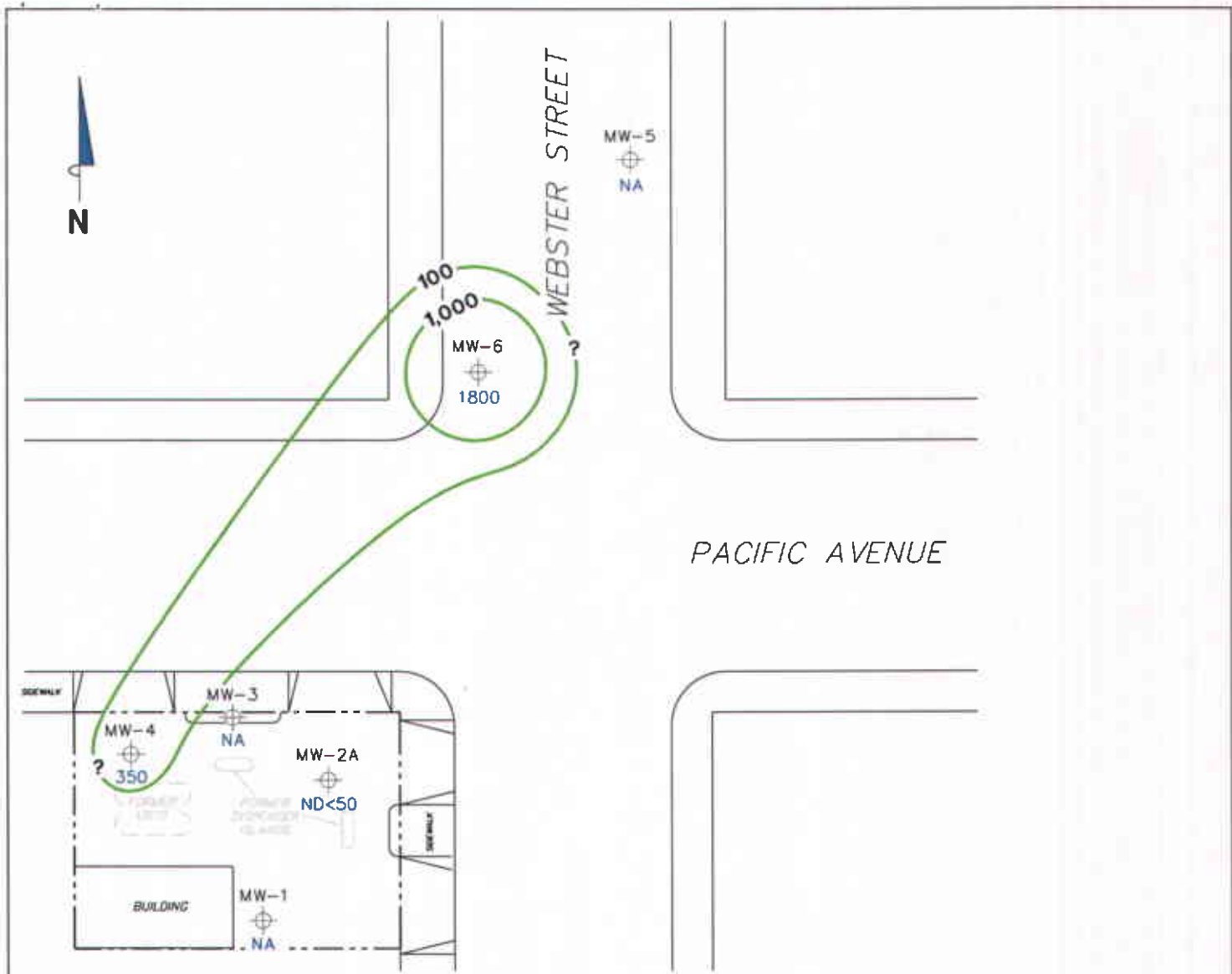


SCALE (FEET)



FIGURE 2

PS=1:1 0843-003



NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples.
 TPPH = total purgeable petroleum hydrocarbons.
 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 8260B.

LEGEND

MW-6 ⊕ Monitoring Well with Dissolved-Phase TPPH Concentrations (µg/l)

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

DISSOLVED-PHASE TPPH CONCENTRATIONS MAP
December 11, 2004

Former 76 Station 0843
 1629 Webster Street
 Alameda, California



FIGURE 3

PS=1:1 0843-003

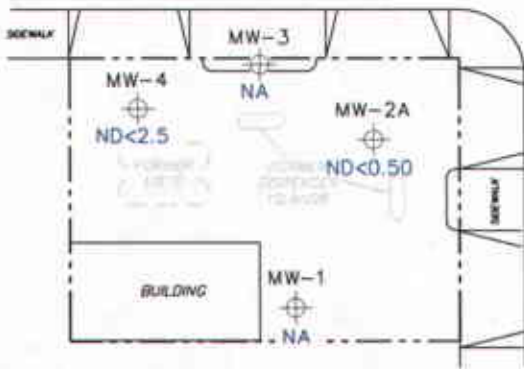


WEBSTER STREET

MW-5
(ND<0.3)
6/7/2004

MW-6
ND<10

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.
 () = representative of historical value.

LEGEND

MW-6 ⊕ Monitoring Well with Dissolved-Phase Benzene Concentrations (µg/l)

DISSOLVED-PHASE BENZENE CONCENTRATIONS MAP
December 11, 2004

Former 76 Station 0843
 1629 Webster Street
 Alameda, California

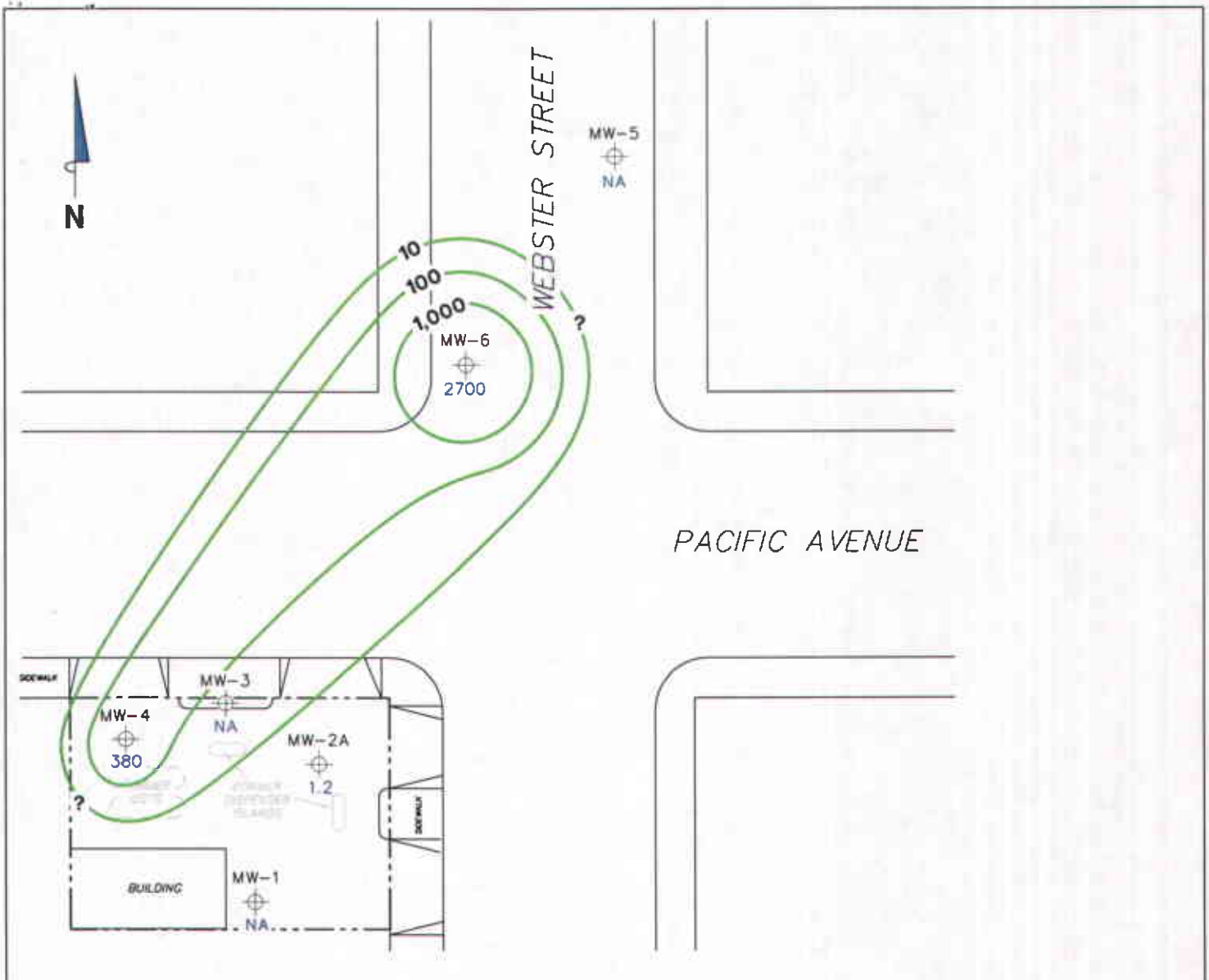


SCALE (FEET)



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. $\mu\text{g/l}$ = 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.

LEGEND

MW-6  Monitoring Well with Dissolved-Phase MTBE Concentrations ($\mu\text{g/l}$)

 1,000 Dissolved-Phase MTBE Contour ($\mu\text{g/l}$)

**DISSOLVED-PHASE MTBE CONCENTRATIONS MAP
December 11, 2004**

Former 76 Station 0843
1629 Webster Street
Alameda, California



SCALE (FEET)

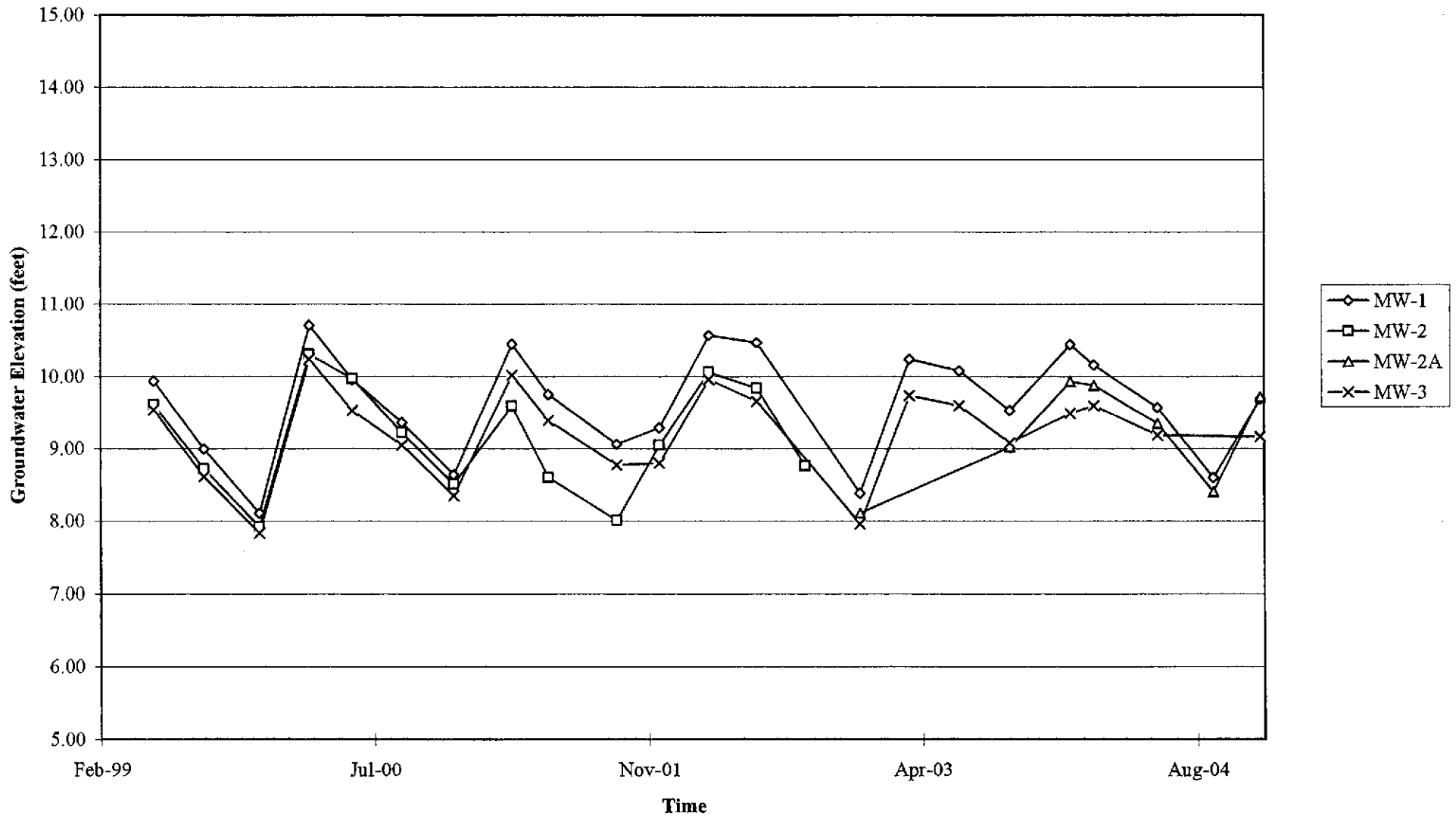


FIGURE 5

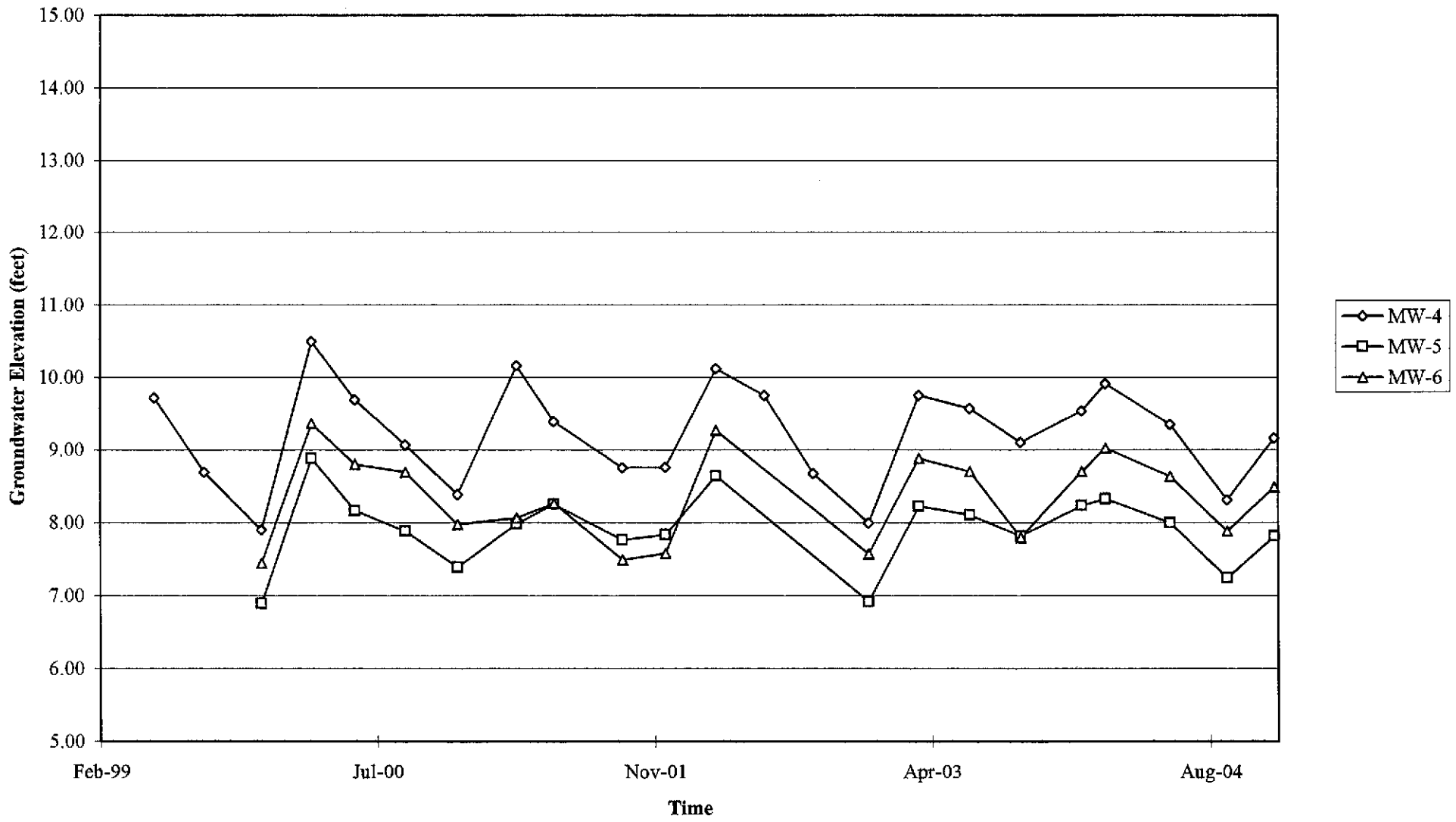
PS=1:1 0843-003

GRAPHS

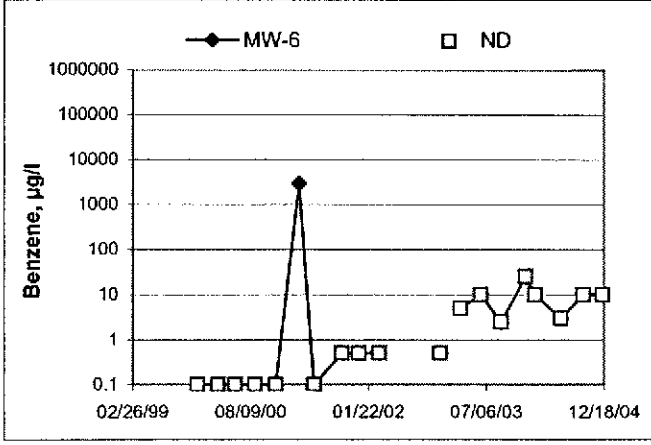
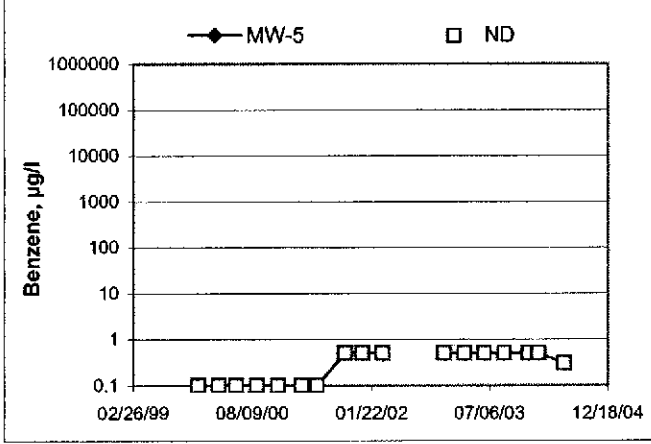
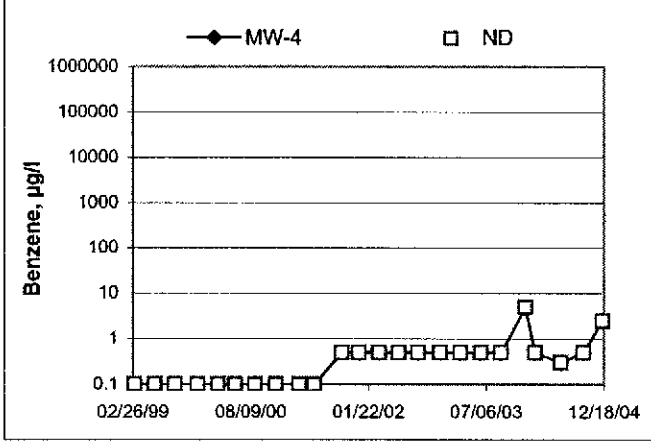
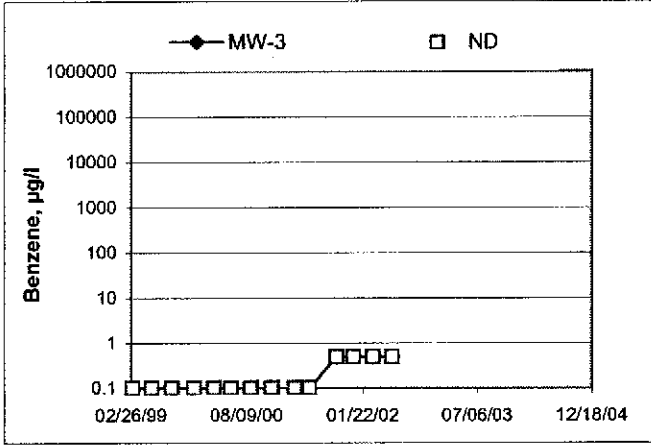
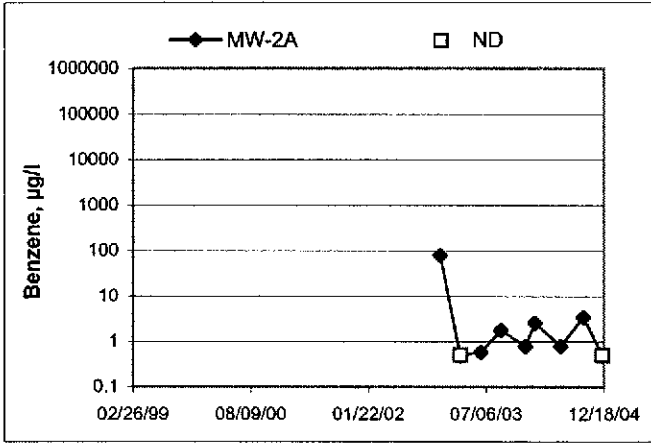
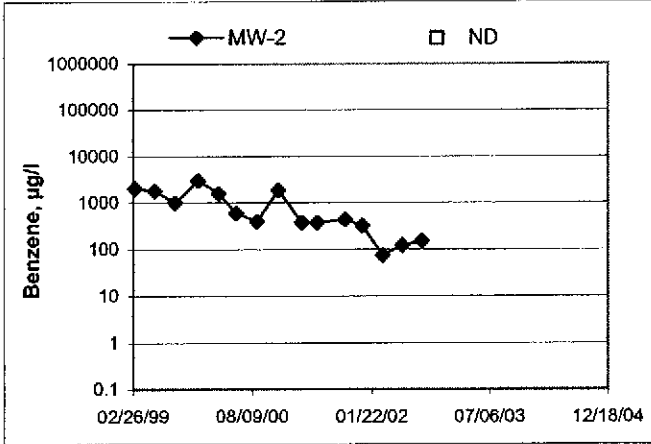
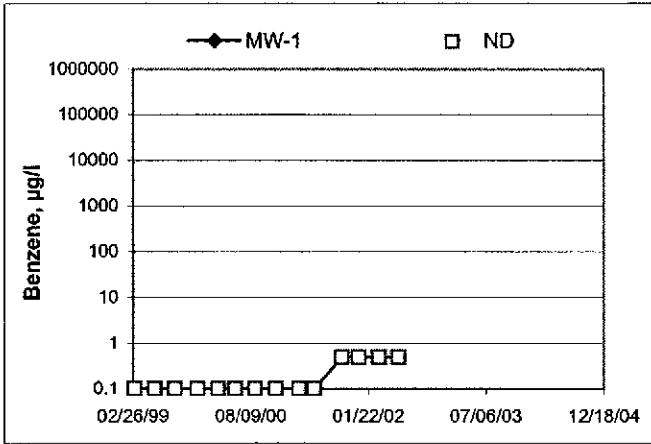
Groundwater Elevations vs. Time
Former 76 Station 0843



Groundwater Elevations vs. Time
Former 76 Station 0843



Benzene Concentrations vs Time 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.

FIELD MONITORING DATA SHEET

 Technician: J. Cox

 Job #/Task #: 416500 61 / FA20

 Date: 12-11-04

 Site # 0843

 Project Manager A. COLLINS

 Page 1 of 1

Well #	TOC	Time Gauged	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
MW-5	✓	0751	19.94	5.53	6	6	N/S	2" monitor only
MW-3	✓	0807	19.81	5.94	6	6	N/S	2" ↓
MW-1	✓	0816	19.78	6.49	6	6	N/S	2" ↓
MW-4	✓	0820	18.82	6.01	6	6	0913	2"
MW-2A	✓	0827	18.48	5.84	6	6	0930	2"
MW-6	✓	0800	19.81	5.60	6	6	0957	2"

FIELD DATA COMPLETE	QA/QC	COC	WELL BOX CONDITION SHEETS
WTT CERTIFICATE	MANIFEST	DRUM INVENTORY	TRAFFIC CONTROL



GROUNDWATER SAMPLING FIELD NOTES

Site: 0843 Technician: NET
 Project No.: 4105001 Date: 12-11-04

Well No.: MW-4 Purge Method: D
 Depth to Water (feet): 6.01 Depth to Product (feet): 6
 Total Depth (feet): 16.82 LPH & Water Recovered (gallons): 6
 Water Column (feet): 12.81 Casing Diameter (Inches): 2"
 80% Recharge Depth (feet): 8.57 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.
0853			2	1299	23.7	6.95		
			4	1288	24.3	7.00		
	0858		6	1262	25.4	7.42		
Static at Time Sampled			Total Gallons Purged			Time Sampled		
0.96			6			0913		
Comments:								

Well No.: MW-2A Purge Method: H.B
 Depth to Water (feet): 5.84 Depth to Product (feet): 6
 Total Depth (feet): 10.48 LPH & Water Recovered (gallons): 6
 Water Column (feet): 4.64 Casing Diameter (Inches): 2"
 80% Recharge Depth (feet): 6.76 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.
0918			1	622	23.6	10.37		
			2	648	23.2	10.86		
	0924		3	656	23.6	10.88		
Static at Time Sampled			Total Gallons Purged			Time Sampled		
5.89			3			0930		
Comments:								

GROUNDWATER SAMPLING FIELD NOTES

Technician: AUX
 Site: 0843 Project No.: 41050001 Date: 12-11-04
 Well No.: MW-6 Purge Method: D
 Depth to Water (feet): 5.60 Depth to Product (feet): 6
 Total Depth (feet): 19.81 LPH & Water Recovered (gallons): 0
 Water Column (feet): 14.21 Casing Diameter (Inches): 2"
 80% Recharge Depth (feet): 8.44 1 Well Volume (gallons): 2

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temperature (F, C)	pH	Turbidity	D.O.
0943			2	706	22.9	6.72		
			4	613	23.7	6.44		
	0947		6	642	23.8	6.43		
Static at Time Sampled			Total Gallons Purged		Time Sampled			
6.55			6		6:57			
Comments:								

Well No.: _____ Purge Method: _____
 Depth to Water (feet): _____ Depth to Product (feet): _____
 Total Depth (feet): _____ LPH & Water Recovered (gallons): _____
 Water Column (feet): _____ Casing Diameter (Inches): _____
 80% Recharge Depth (feet): _____ 1 Well Volume (gallons): _____

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temperature (F, C)	pH	Turbidity	D.O.
Static at Time Sampled			Total Gallons Purged		Time Sampled			
Comments:								

TRC Alton Geoscience- Irvine

December 29, 2004

21 Technology Drive
Irvine, CA 92718

Attn.: Anju Farfan

Project#: 41050001FA20

Project: Conoco Phillips # 0843

Site: 1629 Webster St. Alameda

Attached is our report for your samples received on 12/13/2004 17:45
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after
01/27/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,
please call me at (925) 484-1919.

You can also contact me via email. My email address is: dsharma@stl-inc.com

Sincerely,



Dimple Sharma
Project Manager

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips # 0843

Received: 12/13/2004 17:45

Site: 1629 Webster St. Alameda

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-4	12/11/2004 09:13	Water	1
MW-2A	12/11/2004 09:30	Water	2
MW-6	12/11/2004 09:57	Water	3

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

12/25/2004 14:58

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips # 0843

Received: 12/13/2004 17:45

Site: 1629 Webster St. Alameda

Prep(s): 5030B Test(s): 8260B
 Sample ID: MW-4 Lab ID: 2004-12-0516 - 1
 Sampled: 12/11/2004 09:13 Extracted: 12/23/2004 00:29
 Matrix: Water QC Batch#: 2004/12/22-3C.64
 Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	350	250	ug/L	5.00	12/23/2004 00:29	Q6
Benzene	ND	2.5	ug/L	5.00	12/23/2004 00:29	
Toluene	ND	2.5	ug/L	5.00	12/23/2004 00:29	
Ethylbenzene	ND	2.5	ug/L	5.00	12/23/2004 00:29	
Total xylenes	ND	5.0	ug/L	5.00	12/23/2004 00:29	
tert-Butyl alcohol (TBA)	ND	25	ug/L	5.00	12/23/2004 00:29	
Methyl tert-butyl ether (MTBE)	380	2.5	ug/L	5.00	12/23/2004 00:29	
Di-isopropyl Ether (DIPE)	ND	5.0	ug/L	5.00	12/23/2004 00:29	
Ethyl tert-butyl ether (ETBE)	ND	2.5	ug/L	5.00	12/23/2004 00:29	
tert-Amyl methyl ether (TAME)	ND	2.5	ug/L	5.00	12/23/2004 00:29	
Ethanol	ND	250	ug/L	5.00	12/23/2004 00:29	
Surrogate(s)						
1,2-Dichloroethane-d4	114.1	73-130	%	5.00	12/23/2004 00:29	
Toluene-d8	108.4	81-114	%	5.00	12/23/2004 00:29	

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips # 0843

Received: 12/13/2004 17:45

Site: 1629 Webster St. Alameda

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-2A	Lab ID: 2004-12-0516 - 2
Sampled: 12/11/2004 09:30	Extracted: 12/23/2004 00:51
Matrix: Water	QC Batch#: 2004/12/22-3C.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/23/2004 00:51	
Benzene	ND	0.50	ug/L	1.00	12/23/2004 00:51	
Toluene	ND	0.50	ug/L	1.00	12/23/2004 00:51	
Ethylbenzene	ND	0.50	ug/L	1.00	12/23/2004 00:51	
Total xylenes	ND	1.0	ug/L	1.00	12/23/2004 00:51	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	12/23/2004 00:51	
Methyl tert-butyl ether (MTBE)	1.2	0.50	ug/L	1.00	12/23/2004 00:51	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	12/23/2004 00:51	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	12/23/2004 00:51	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	12/23/2004 00:51	
Ethanol	ND	50	ug/L	1.00	12/23/2004 00:51	
Surrogate(s)						
1,2-Dichloroethane-d4	119.0	73-130	%	1.00	12/23/2004 00:51	
Toluene-d8	105.9	81-114	%	1.00	12/23/2004 00:51	

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience- Irvine
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21 Technology Drive
Irvine, CA 92718
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Project: 41050001FA20
Conoco Phillips # 0843

Received: 12/13/2004 17:45

Site: 1629 Webster St. Alameda

Prep(s): 5030B Test(s): 8260B
Sample ID: MW-6 Lab ID: 2004-12-0516 - 3
Sampled: 12/11/2004 09:57 Extracted: 12/22/2004 10:54
Matrix: Water QC Batch#: 2004/12/22-2B.64
Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	1800	1000	ug/L	20.00	12/22/2004 10:54	Q6
Benzene	ND	10	ug/L	20.00	12/22/2004 10:54	
Toluene	ND	10	ug/L	20.00	12/22/2004 10:54	
Ethylbenzene	ND	10	ug/L	20.00	12/22/2004 10:54	
Total xylenes	ND	20	ug/L	20.00	12/22/2004 10:54	
tert-Butyl alcohol (TBA)	ND	100	ug/L	20.00	12/22/2004 10:54	
Methyl tert-butyl ether (MTBE)	2700	10	ug/L	20.00	12/22/2004 10:54	
Di-isopropyl Ether (DIPE)	ND	20	ug/L	20.00	12/22/2004 10:54	
Ethyl tert-butyl ether (ETBE)	ND	10	ug/L	20.00	12/22/2004 10:54	
tert-Amyl methyl ether (TAME)	ND	10	ug/L	20.00	12/22/2004 10:54	
Ethanol	ND	1000	ug/L	20.00	12/22/2004 10:54	
Surrogate(s)						
1,2-Dichloroethane-d4	113.0	73-130	%	20.00	12/22/2004 10:54	
Toluene-d8	104.7	81-114	%	20.00	12/22/2004 10:54	

Gas/BTEX Fuel Oxygenates by 8260B

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Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips # 0843

Received: 12/13/2004 17:45

Site: 1629 Webster St. Alameda

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2004/12/22-2B.64-047

Water

Test(s): 8260B

QC Batch # 2004/12/22-2B.64

Date Extracted: 12/22/2004 07:47

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	12/22/2004 07:47	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	12/22/2004 07:47	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	12/22/2004 07:47	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	12/22/2004 07:47	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	12/22/2004 07:47	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	12/22/2004 07:47	
Benzene	ND	0.5	ug/L	12/22/2004 07:47	
Toluene	ND	0.5	ug/L	12/22/2004 07:47	
Ethylbenzene	ND	0.5	ug/L	12/22/2004 07:47	
Total xylenes	ND	1.0	ug/L	12/22/2004 07:47	
Ethanol	ND	50	ug/L	12/22/2004 07:47	
Surrogates(s)					
1,2-Dichloroethane-d4	113.1	73-130	%	12/22/2004 07:47	
Toluene-d8	107.5	81-114	%	12/22/2004 07:47	

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience- Irvine

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Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips # 0843

Received: 12/13/2004 17:45

Site: 1629 Webster St. Alameda

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2004/12/22-3C.64-012

Water

Test(s): 8260B

QC Batch # 2004/12/22-3C.64

Date Extracted: 12/22/2004 18:12

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	12/22/2004 18:12	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	12/22/2004 18:12	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	12/22/2004 18:12	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	12/22/2004 18:12	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	12/22/2004 18:12	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	12/22/2004 18:12	
Benzene	ND	0.5	ug/L	12/22/2004 18:12	
Toluene	ND	0.5	ug/L	12/22/2004 18:12	
Ethylbenzene	ND	0.5	ug/L	12/22/2004 18:12	
Total xylenes	ND	1.0	ug/L	12/22/2004 18:12	
Ethanol	ND	50	ug/L	12/22/2004 18:12	
Surrogates(s)					
1,2-Dichloroethane-d4	108.0	73-130	%	12/22/2004 18:12	
Toluene-d8	109.0	81-114	%	12/22/2004 18:12	

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience- Irvine
Attn.: Anju Farfan

21 Technology Drive
Irvine, CA 92718
Phone: (949) 341-7440 Fax: (949) 753-0111
Project: 41050001FA20
Conoco Phillips # 0843

Received: 12/13/2004 17:45

Site: 1629 Webster St. Alameda

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2004/12/22-2B.64

LCS 2004/12/22-2B.64-025
LCSD

Extracted: 12/22/2004

Analyzed: 12/22/2004 07:25

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	29.3		25	117.2			65-165	20		
Benzene	28.0		25	112.0			69-129	20		
Toluene	27.4		25	109.6			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	532		500	106.4			73-130			
Toluene-d8	545		500	109.0			81-114			

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

12/25/2004 14:58

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience- Irvine

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21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips # 0843

Received: 12/13/2004 17:45

Site: 1629 Webster St. Alameda

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2004/12/22-3C.64

LCS 2004/12/22-3C.64-050

Extracted: 12/22/2004

Analyzed: 12/22/2004 17:50

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	29.6		25	118.4			65-165	20		
Benzene	29.4		25	117.6			69-129	20		
Toluene	29.0		25	116.0			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	519		500	103.8			73-130			
Toluene-d8	525		500	105.0			81-114			

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

12/25/2004 14:58

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips # 0843

Received: 12/13/2004 17:45

Site: 1629 Webster St. Alameda

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Water

QC Batch # 2004/12/22-2B.64

MW-4 >> MS

Lab ID: 2004-12-0516 - 001

MS: 2004/12/22-2B.64-049

Extracted: 12/22/2004

Analyzed: 12/22/2004 09:49

Dilution: 1.00

MSD: 2004/12/22-2B.64-010

Extracted: 12/22/2004

Analyzed: 12/22/2004 10:10

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	27.3	27.1	ND	25	109.2	108.4	0.7	69-129	20		
Toluene	28.2	27.7	ND	25	112.8	110.8	1.8	70-130	20		
Methyl tert-butyl ether	367	374	337	25	120.0	148.0	20.9	65-165	20		M3
Surrogate(s)											
1,2-Dichloroethane-d4	523	521		500	104.5	104.2		73-130			
Toluene-d8	532	530		500	106.4	106.0		81-114			

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips # 0843

Received: 12/13/2004 17:45

Site: 1629 Webster St. Alameda

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Water

QC Batch # 2004/12/22-3C.64

MS/MSD

Lab ID: 2004-12-0517 - 005

MS: 2004/12/22-3C.64-023

Extracted: 12/22/2004

Analyzed: 12/22/2004 19:23

Dilution: 1.00

MSD: 2004/12/22-3C.64-051

Extracted: 12/22/2004

Analyzed: 12/22/2004 20:07

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	30.8	27.5	ND	25	123.2	110.0	11.3	69-129	20		
Toluene	31.9	28.1	ND	25	127.6	112.4	12.7	70-130	20		
Methyl tert-butyl ether	36.7	33.1	3.81	25	131.6	117.2	11.6	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	549	556		500	109.8	111.2		73-130			
Toluene-d8	529	537		500	105.9	107.4		81-114			

Sewern Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

12/25/2004 14:58

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips # 0843

Received: 12/13/2004 17:45

Site: 1629 Webster St. Alameda

Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present in the sample.

Result Flag

M3

Sample > 4x spike concentration.

Q6

The concentration reported reflect(s) individual or discrete unidentified peaks not matching a typical fuel pattern.

STL San Francisco

Sample Receipt Checklist

Submission #: 2004- 12 - 0516

Checklist completed by: (initials) MV Date: 12, 14 /04

Courier name: STL San Francisco Client _____

Custody seals intact on shipping container/samples Yes ___ No ___ Not Present

Chain of custody present? Yes No ___

Chain of custody signed when relinquished and received? Yes No ___

Chain of custody agrees with sample labels? Yes No ___

Samples in proper container/bottle? Yes No ___

Sample containers intact? Yes No ___

Sufficient sample volume for indicated test? Yes No ___

All samples received within holding time? Yes No ___

Container/Temp Blank temperature in compliance ($4^{\circ}\text{C} \pm 2$)? Temp 2 °C Yes No ___

Potential reason for $> 6^{\circ}\text{C}$ - Ice melted Ice in bags Not enough ice Not enough blue ice Samples in boxes

Sampled $< 4\text{hr}$ ago? Ice not required (e.g. air or bulk sample)

Ice Present Yes No ___

Water - VOA vials have zero headspace? No VOA vials submitted ___ Yes No ___

(if bubble is present, refer to approximate bubble size and itemize in comments as S (small ~O), M (medium ~ O) or L (large ~ O))

Water - pH acceptable upon receipt? Yes No

pH adjusted - Preservative used: HNO₃ HCl H₂SO₄ NaOH ZnOAc - Lot #(s) _____

For any item check-listed "No", provided detail of discrepancy in comment section below:

Comments:

Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (initials) _____ Date: ____/____/04 Client contacted: Yes No

Summary of discussion:

Corrective Action (per PM/Client):

STL-San Francisco

ConocoPhillips Chain Of Custody Record

96613

1220 Quarry Lane
Pleasanton, CA 94566

(925) 484-1919 (925) 484-1096 fax

ConocoPhillips Site Manager:

INVOICE REMITTANCE ADDRESS:

2004-12-0516

CONOCOPHILLIPS
Attn: Dee Hutchinson
3611 South Harbor, Suite 200
Santa Ana, CA. 92704

ConocoPhillips Work Order Number

2807TRC500

ConocoPhillips Cost Object

DATE: 12-11-04

PAGE: 1 of 1

SAMPLING COMPANY: TRC		Valid Value ID:	CONOCOPHILLIPS SITE NUMBER 0843		GLOBAL ID NO.: 70600102263	
ADDRESS: 21 Technology Drive, Irvine CA 92618			SITE ADDRESS (Street and City): 1629 WEBSTER ST. ALAMEDA		CONOCOPHILLIPS SITE MANAGER: THOMAS KOEHL	
PROJECT CONTACT (Hardcopy or PDF Report to): Anju Farfan			EDF DELIVERABLE TO (RP or Designee): Peter Thomson, TRC		PHONE NO.: 949-341-7408	
TELEPHONE: 949-341-7440	FAX: 949-753-0111	E-MAIL: afarfan@trcsolutions.com	E-MAIL: pthomson@trcsolutions.com		LAB USE ONLY	

SAMPLER NAME(S) (Print): TRC	CONSULTANT PROJECT NUMBER 41050001/FA20	REQUESTED ANALYSES				
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TURNAROUND TIME (CALENDAR DAYS): <input type="checkbox"/> 14 DAYS <input type="checkbox"/> 7 DAYS <input type="checkbox"/> 72 HOURS <input type="checkbox"/> 48 HOURS <input type="checkbox"/> 24 HOURS <input type="checkbox"/> LESS THAN 24 HOURS		SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED <input checked="" type="checkbox"/>					FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes 20C				
--	--	---	--	--	--	--	--	--	--	--	--

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING		MATRIX	NO. OF CONT.	8015m - TPHd Extractable	8260B - TPHg/BTEX/MBE	8260B - TPHg / BTEX / 8 Oxygenates	8260B - TPHg / BTEX / 8 oxygenates + methanol (8015M)	8260B - Full Scan VOCs (does not include oxygenates)	8270C - Semi-Volatiles	8015M / 8021B - TPHg/BTEX/MBE	Lead <input type="checkbox"/> Total <input type="checkbox"/> STLC <input type="checkbox"/> TCLP	TPH by SLOES	BTEX by SLOES	50XYS + ETHANOL by SLOES	TEMPERATURE ON RECEIPT C*
		DATE	TIME														
	MW-4	12-11-04	0913	GW	3									X	X	X	3 WAS w/ HCL
	MW-2A		0930														
	MW-6		0957														

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) RETRIEVED	Date: 12-11-04	Time: 10:45
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: 12.13-04	Time: 1500
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) Denise Harrington / STL-SF	Date: 12.13.04	Time: 1745

STATEMENTS

Purge Water 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.