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Sacramento, California 95818

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2:20 pm, Jul 24, 2007

Alameda County  
Environmental Health

May 11, 2006

Mr. Don Hwang  
Alameda County Health Agency  
1131 Harbor Bay Parkway  
Alameda, California 94502

Re: **Report Transmittal  
Quarterly Report  
First Quarter – 2006  
76 Service Station #0843  
1629 Webster Street  
Alameda, CA**

Dear Mr. Hwang:

I declare under penalty of perjury that to the best of my knowledge the information and/or recommendations contained in the attached report is/are true and correct.

If you have any questions or need additional information, please contact

Shelby S. Lathrop (Contractor)  
ConocoPhillips  
Risk Management & Remediation  
76 Broadway  
Sacramento, CA 95818  
Phone: 916-558-7609  
Fax: 916-558-7639

Sincerely,



Thomas Kosel  
Risk Management & Remediation

Attachment



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May 16, 2006

Mr. Donald Hwang  
Alameda County Health Agency  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502

**Re: Quarterly Summary Report – First Quarter 2006**  
Delta Project No. C102349011

Dear Mr. Hwang:

On behalf of ConocoPhillips (COP), Delta Environmental Consultants, Inc. (Delta) is forwarding the quarterly summary report for the following location:

**Service Station**

76 Service Station No. 0843

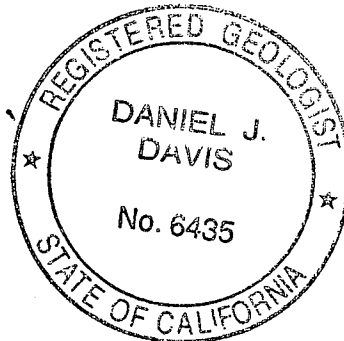
**Location**

1629 Webster Street  
Alameda, California

Sincerely,  
**Delta Environmental Consultants, Inc.**

Ben Wright  
Staff Geologist

Daniel J. Davis, R.G.  
Senior Project Manager



Forward: TRC - Quarterly Monitoring Report

cc: Ms. Shelby Lathrop, ConocoPhillips (electronic copy)

A member of:



**QUARTERLY SUMMARY REPORT**  
**First Quarter 2006**  
**76 Service Station No. 0843**  
**1629 Webster Street**  
**Alameda, California**

**PREVIOUS ASSESSMENT**

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 ¾-inch in diameter were observed in the used oil tank during removal. Approximately 338 tons of hydrocarbon impacted soil and backfill were removed from beneath the former USTs, dispensers, and product lines during the UST removal activities.

March 1999 – Four soil borings (B1 through B4) were advanced at the site and converted to monitor wells MW-1 through MW-4. Groundwater was encountered from 8 to 15 feet below ground surface (bgs). Static water was observed between 4 and 6 feet bgs subsequent to well installation.

December 1999 – Two offsite soil borings (B5 and B6) were advanced and subsequently converted to monitor wells MW-5 and MW-6. Groundwater was initially present at approximately 10 feet below ground surface (bgs). Static water was observed at 7 feet bgs subsequent to well installation.

March 2001 - An underground utility survey was conducted to identify and locate underground utilities beneath and in the vicinity of the site that could provide potential preferential pathways for groundwater flow.

May 2001 - Five direct-push soil borings (GP-1 through GP-5) were installed to evaluate whether underground utilities in the vicinity of the site are providing preferential pathways for groundwater flow and the migration of dissolved hydrocarbons. The results of the investigation indicated insufficient evidence that underground utility lines were providing preferential pathways for the off-site migration of dissolved petroleum hydrocarbons.

December 2001 - Twelve direct-push soil borings (GP-6 through GP-17) were completed 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 the residual hydrocarbon impact detected in the previous investigations was limited.

December 2002 - One on-site monitoring well (MW-2) was destroyed during remedial excavation of hydrocarbon-impacted soil. This well was completed in the vicinity of the former eastern dispenser island and was replaced with on-site backfill monitoring well MW-2A. Approximately 292 tons of hydrocarbon-impacted soil was removed from beneath the former eastern dispenser island.

September 2003 - A *Request and Work Plan for Closure* prepared by ERI was submitted to the Alameda County Health Care Services Agency, dated September 10, 2003. The report summarized why no further action is needed for the site; the report also included plans to destroy the existing wells upon regulatory acceptance for no further action.

June 2004 – A work plan was submitted for two monitor wells downgradient of MW-5.

May 2005 – A work plan titled *Work Plan Addendum – Site Assessment Activity* dated May 17, 2005 was prepared by ATC Associates Inc. for the installation of two offsite monitor wells.

September 2005 – A work plan was prepared by ATC Associates Inc., titled *Work Plan Subsurface Investigation*, for the installation of one onsite monitor well.

September 2005 – Site environmental consulting responsibilities were transferred to Delta.

## **SENSITIVE RECEPTORS**

June/July 2002 - A groundwater receptor survey was conducted. Three irrigation wells are located within a one-half mile radius of the site. The wells are located approximately 1,980 feet west and 2,245 feet southwest of the site, crossgradient and upgradient of the site.

## **GROUNDWATER MONITORING AND SAMPLING**

Quarterly groundwater monitoring and sampling was initiated in March 1999. During the most recent groundwater sampling event conducted on February 24, 2006, depth to groundwater ranged from 5.08 feet (MW-5) to 6.60 feet (MW-1) below top of casing (TOC). The groundwater flow direction was north at a gradient of 0.02 foot per foot (ft/ft). Maximum dissolved groundwater concentrations were present as follows: total purgeable petroleum hydrocarbons (TPPH) (910 micrograms per liter ( $\mu\text{g/l}$ ) in MW-1), benzene (0.51  $\mu\text{g/l}$  in MW-2A), and MTBE (5,100  $\mu\text{g/l}$  in MW-1).

## **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. Approximately 292 tons of hydrocarbon-impacted soil was removed from beneath the former eastern island during the December 2002 excavation.

## **CHARACTERIZATION STATUS**

Based on the most current (February 24, 2006) and historic groundwater analytical data, MTBE is not defined offsite cross-gradient (east-west) of MW-6 and downgradient (north) of onsite well MW-4. Additional assessment is required to define the dissolved MTBE offsite and downgradient of the site.

Monitor well MW-1 is sampled annually. The most recent TPPH concentration in the groundwater sample from MW-1 was 910  $\mu\text{g/l}$ , an increase from <50  $\mu\text{g/l}$  one year ago. The MTBE concentration in the same sample was 5,100  $\mu\text{g/l}$ , an increase from 27  $\mu\text{g/l}$  one year ago. Groundwater samples from a Shell service station located approximately 75 feet south (upgradient) of the site show very high concentrations of TPPH and MTBE and it appears that MW-1 is showing impacts from offsite migration of these constituents.

Monitor well MW-6 continues to show a decline in TPPH and MTBE concentrations, and samples from MW-5 remain below laboratory detection limits for TPPH, benzene, and MTBE.

**RECENT CORRESPONDENCE**

No recent correspondence was documented during this reporting period.

**THIS QUARTER ACTIVITIES (First Quarter 2006)**

1. TRC conducted the quarterly monitoring and sampling event at the site on February 24, 2006.
2. Delta prepared a site conceptual model (SCM) for the site.

**WASTE DISPOSAL SUMMARY**

No waste was disposed of from the site during this reporting period.

**NEXT QUARTER ACTIVITIES (Second Quarter 2006)**

1. TRC will conduct quarterly groundwater monitoring and sampling at the site.
2. Delta will submit a SCM for the site and submit a work plan for downgradient characterization.

**CONSULTANT:** Delta Environmental Consultants, Inc.

# TRC

April 13, 2006

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  
JANUARY THROUGH MARCH 2006

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 *fw*  
QMS Operations Manager

CC: Mr. Daniel Davis, Delta Environmental Consultants, Inc. (3 copies)

Enclosures  
20-0400/0843R11.QMS

21 Technology Drive • Irvine, California 92618  
Main: 949-727-9336 • Fax: 949-727-7399  
[www.trcsolutions.com](http://www.trcsolutions.com)





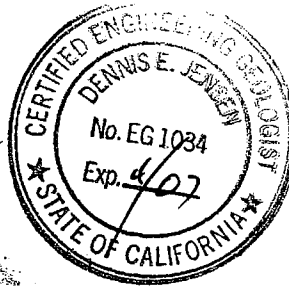
**QUARTERLY MONITORING REPORT  
JANUARY THROUGH MARCH 2006**

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  
April 13, 2006



## LIST OF ATTACHMENTS

Summary Sheet	Summary of Gauging and Sampling Activities
Tables	Table Key Contents of Tables Table 1: Current Fluid Levels and Selected Analytical Results Table 1a: Additional Current Analytical Results Table 2: Historic Fluid Levels and Selected Analytical Results Table 2a: Additional Historic Analytical Results
Coordinated Event Data	<i>Shell Service Station</i> Well Concentrations
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	Groundwater Elevations vs. Time Benzene Concentrations vs. Time
Field Activities	General Field Procedures Field Monitoring Data Sheet - 2/24/06 Groundwater Sampling Field Notes - 2/24/06
Laboratory Reports	Official Laboratory Reports Quality Control Reports Chain of Custody Records
Statements	Purge Water Disposal Limitations



**Summary of Gauging and Sampling Activities**  
**January 2006 through March 2006**  
**Former 76 Station 0843**  
**1629 Webster Street**  
**Alameda, CA**

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

Water Sampling Contractor: **TRC**  
Compiled by: **Christina Carrillo**

Date(s) of Gauging/Sampling Event: **02/24/06**

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**Sample Points**

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

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**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**

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**Hydrogeologic Parameters**

Depth to groundwater (below TOC):      Minimum: **5.08 feet**      Maximum: **6.6 feet**  
Average groundwater elevation (relative to available local datum): **9.38 feet**  
Average change in groundwater elevation since previous event: **1.01 feet**  
Interpreted groundwater gradient and flow direction:  
    Current event: **0.02 ft/ft, north**  
    Previous event: **0.003 ft/ft, northeast (11/23/05)**

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**Selected Laboratory Results**

Wells with detected **Benzene**: **1**      Wells above MCL (1.0 µg/l): **0**  
    Maximum reported benzene concentration: **0.51 µg/l (MW-2A)**  
Wells with **TPPH 8260B**      **3**      Maximum: **910 µg/l (MW-1)**  
Wells with **MTBE**      **5**      Maximum: **5,100 µg/l (MW-1)**

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**Notes:**

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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

### 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: Surface Elevation - Measured Depth to Water + (Dp x 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.

### 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.

# Contents of Tables

## Site: Former 76 Station 0843

### Current Event

Table 1	Well/ Date	Depth to Water	LPH Thickness	Ground- water Elevation	Change in Elevation	TPH-G (8015M)	TPPH (8260)	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
Table 1a	Well/ Date	TBA	Ethanol (8260B)	DIPE	ETBE	TAME								

### Historic Data

Table 2	Well/ Date	Depth to Water	LPH Thickness	Ground- water Elevation	Change in Elevation	TPH-G (8015M)	TPPH (8260)	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
Table 2a	Well/ Date	TBA	Ethanol (8260B)	Ethylene- dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME						

**Table 1**  
**CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**February 24, 2006**  
**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 (8015M) (µg/l)	TPPH (8260) (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
<b>MW-1</b>		<b>(Screen Interval in feet: 4.5-20.5)</b>												
02/24/06	16.18	6.60	0.00	9.58	0.68	--	910	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5100	
<b>MW-2A</b>		<b>(Screen Interval in feet: 5-11.5)</b>												
02/24/06	15.56	5.79	0.00	9.77	1.09	--	84	0.51	1.2	4.2	16	--	7.2	
<b>MW-3</b>		<b>(Screen Interval in feet: 5.0-20.0)</b>												
02/24/06	15.11	5.37	0.00	9.74	1.23	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.2	
<b>MW-4</b>		<b>(Screen Interval in feet: 5.0-20.5)</b>												
02/24/06	15.17	5.19	0.00	9.98	1.40	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	4.7	
<b>MW-5</b>		<b>(Screen Interval in feet: 5-20)</b>												
02/24/06	13.34	5.08	0.00	8.26	0.78	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
<b>MW-6</b>		<b>(Screen Interval in feet: 5-20)</b>												
02/24/06	14.08	5.12	0.00	8.96	0.89	--	400	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	990	

**Table 1 a**  
**ADDITIONAL CURRENT ANALYTICAL RESULTS**  
**Former 76 Station 0843**

Date Sampled	TBA	Ethanol (8260B)	DIPE	ETBE	TAME
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
<b>MW-1</b>					
02/24/06	62	ND<250	ND<0.50	ND<0.50	5.5
<b>MW-2A</b>					
02/24/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50
<b>MW-3</b>					
02/24/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50
<b>MW-4</b>					
02/24/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50
<b>MW-5</b>					
02/24/06	59	ND<250	ND<0.50	ND<0.50	ND<0.50
<b>MW-6</b>					
02/24/06	ND<10	ND<250	ND<0.50	ND<0.50	0.68

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**March 1999 Through February 2006**  
**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 (8015M) (µg/l)	TPPH (8260) (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
<b>MW-1</b>	<b>(Screen Interval in feet: 4.5-20.5)</b>													
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	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<5.0	--	
09/03/02	16.18	--	--	--	--	--	--	--	--	--	--	ND<2.5	--	
12/12/02	16.18	7.80	0.00	8.38	--	--	--	--	--	--	--	--	--	Not monitored/sampled
03/13/03	16.18	5.94	0.00	10.24	1.86	--	--	--	--	--	--	--	--	No longer sampled
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	--	--	--	--	--	--	--	--	
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	--	--	--	--	--	--	--	--	Monitored Only Sampled Annually

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**March 1999 Through February 2006**  
**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 (8015M) (µg/l)	TPPH (8260) (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
<b>MW-1 continued</b>														
12/11/04	16.18	6.49	0.00	9.69	1.09	--	--	--	--	--	--	--	--	
03/15/05	16.18	5.28	0.00	10.90	1.21	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	--	Sampled Annually
05/17/05	16.18	5.83	0.00	10.35	-0.55	--	--	--	--	--	--	--	27	
07/27/05	16.18	6.52	0.00	9.66	-0.69	--	--	--	--	--	--	--	--	Sampled annually
11/23/05	16.18	7.28	0.00	8.90	-0.76	--	--	--	--	--	--	--	--	Sampled Annually
02/24/06	16.18	6.60	0.00	9.58	0.68	--	910	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	--	Sampled annually
<b>MW-2 (Screen Interval in feet: 4.5-20.5)</b>														
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



**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**March 1999 Through February 2006**  
**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 (8015M) (µg/l)	TPPH (8260) (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
<b>MW-2a</b>		<b>(Screen Interval in feet: 5-11.5)</b>												
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	
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	
03/15/05	15.56	5.52	0.00	10.04	0.32	--	92	0.84	1.7	2.4	9.8	--	ND<10	
05/17/05	15.56	5.55	0.00	10.01	-0.03	--	54	2.1	1.7	1.9	7.0	--	2.9	
07/27/05	15.56	6.16	0.00	9.40	-0.61	--	ND<50	0.66	1.1	1.3	4.2	--	3.7	
11/23/05	15.56	6.88	0.00	8.68	-0.72	--	120	1.3	2.8	7.8	30	--	10	
02/24/06	15.56	5.79	0.00	9.77	1.09	--	84	0.51	1.2	4.2	16	--	7.2	
<b>MW-3</b>		<b>(Screen Interval in feet: 5.0-20.0)</b>												
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	--	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**March 1999 Through February 2006**  
**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 (8015M) (µg/l)	TPPH (8260) (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
<b>MW-3 continued</b>														
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<5.0	--	
12/12/02	15.11	7.15	0.00	7.96	-1.70	--	--	--	--	--	--	--	--	
03/13/03	15.11	5.37	0.00	9.74	1.78	--	--	--	--	--	--	--	--	No longer sampled
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	--	--	--	--	--	--	--	--	
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
09/17/04	15.11	--	--	--	--	--	--	--	--	--	--	--	--	Monitored Only
12/11/04	15.11	5.94	0.00	9.17	--	--	--	--	--	--	--	--	--	Unable to locate
03/11/05	15.11	4.76	0.00	10.35	1.18	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	--	Sampled Annually
05/17/05	15.11	5.23	0.00	9.88	-0.47	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
07/27/05	15.11	5.81	0.00	9.30	-0.58	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
11/23/05	15.11	6.60	0.00	8.51	-0.79	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
02/24/06	15.11	5.37	0.00	9.74	1.23	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
<b>MW-4</b>	<b>(Screen Interval in feet: 5.0-20.5)</b>													
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	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**March 1999 Through February 2006**  
**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 (8015M) (µg/l)	TPPH (8260) (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
<b>MW-4 continued</b>														
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	--	
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	ND<5.0	--	
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	1700	1300	
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<5.0	--	
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	ND<2.5	--	
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	2.9	3.3	
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<0.50	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<1.0	--	ND<2.0	
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<5.0	790	--	
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<0.50	ND<5.0	--	
09/17/04	15.17	6.86	0.00	8.31	-1.04	--	56	ND<0.50	ND<0.50	ND<0.50	ND<0.6	ND<1	--	
12/11/04	15.17	6.01	0.00	9.16	0.85	--	350	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	10	
03/11/05	15.17	4.61	0.00	10.56	1.40	--	ND<50	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	380	
05/17/05	15.17	4.93	0.00	10.24	-0.32	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
07/27/05	15.17	5.74	0.00	9.43	-0.81	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**March 1999 Through February 2006**  
**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 (8015M) (µg/l)	TPPH (8260) (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
<b>MW-4 continued</b>														
11/23/05	15.17	6.59	0.00	8.58	-0.85	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	23	
02/24/06	15.17	5.19	0.00	9.98	1.40	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	4.7	
<b>MW-5 (Screen Interval in feet: 5-20)</b>														
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	--	
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

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**March 1999 Through February 2006**  
**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 (8015M) (µg/l)	TPPH (8260) (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
<b>MW-5 continued</b>														
03/11/05	13.34	4.96	0.00	8.38	0.57	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
05/17/05	13.34	5.04	0.00	8.30	-0.08	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
07/27/05	13.34	5.31	0.00	8.03	-0.27	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
11/23/05	13.34	5.86	0.00	7.48	-0.55	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
02/24/06	13.34	5.08	0.00	8.26	0.78	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
<b>MW-6 (Screen Interval in feet: 5-20)</b>														
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	--	--	--	--	--	--	--	--	--	--	--	--	
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	Inaccessible - paved over
03/13/03	14.08	5.20	0.00	8.88	1.31	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	--	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**March 1999 Through February 2006**  
**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 (8015M) (µg/l)	TPPH (8260) (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
<b>MW-6 continued</b>														
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	
12/11/04	14.08	5.60	0.00	8.48	0.60	--	1800	ND<10	ND<10	ND<10	ND<20	--	2700	
03/11/05	14.08	4.71	0.00	9.37	0.89	--	ND<1000	ND<10	ND<10	ND<10	ND<20	--	2500	
05/17/05	14.08	4.98	0.00	9.10	-0.27	--	ND<1000	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2200	
07/27/05	14.08	5.48	0.00	8.60	-0.50	--	ND<1000	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1100	
11/23/05	14.08	6.01	0.00	8.07	-0.53	--	590	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1700	
02/24/06	14.08	5.12	0.00	8.96	0.89	--	400	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	990	

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**Former 76 Station 0843**

Date Sampled	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
<b>MW-1</b>							
09/02/99	ND	ND	--	--	ND	ND	ND
03/15/05	ND<5.0	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50
02/24/06	62	ND<250	--	--	ND<0.50	ND<0.50	5.5
<b>MW-2</b>							
09/02/99	ND	ND	--	--	ND	ND	ND
12/14/99	ND	ND	ND	ND	ND	ND	ND
03/14/00	1300	ND	ND	ND	ND	ND	ND
05/31/00	ND	ND	ND	ND	ND	ND	ND
08/29/00	250	ND	ND	ND	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<5000	ND<50000000	ND<100	ND<100	ND<100	ND<100	ND<100
12/10/01	ND<500	ND<12000000	ND<25	ND<25	ND<25	ND<25	ND<25
03/11/02	ND<1000	ND<5000000	ND<20	ND<20	ND<20	ND<20	ND<20
06/07/02	ND<1000	ND<2000000	ND<25	ND<25	ND<25	ND<25	ND<25
09/03/02	ND<1000	ND<5000000	ND<20	ND<20	ND<20	ND<20	ND<20
<b>MW-2a</b>							
12/12/02	ND<100	ND<500000	ND<2.0	2.3	ND<2.0	ND<2.0	ND<2.0
03/13/03	ND<100	ND<500000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
06/12/03	ND<100	ND<500000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
09/12/03	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
12/31/03	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
02/12/04	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
06/07/04	ND<12	ND<800	ND<0.5	ND<0.5	ND<1	ND<1	ND<1

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**Former 76 Station 0843**

Date Sampled	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
<b>MW-2A continued</b>							
09/17/04	6.7	ND<50	--	--	ND<1.0	ND<0.50	ND<0.50
12/11/04	ND<5.0	ND<50	--	--	ND<1.0	ND<0.50	ND<0.50
03/15/05	ND<5.0	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50
05/17/05	ND<5.0	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50
07/27/05	ND<5.0	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50
11/23/05	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50
02/24/06	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50
<b>MW-3</b>							
09/02/99	ND	ND	--	--	ND	ND	ND
03/11/05	ND<5.0	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50
05/17/05	ND<5.0	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50
07/27/05	ND<5.0	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50
11/23/05	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50
02/24/06	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50
<b>MW-4</b>							
09/02/99	ND	ND	--	--	ND	ND	ND
12/10/01	ND<290	ND<7100000	ND<14	ND<14	ND<14	ND<14	ND<14
12/12/02	ND<100	ND<500000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
09/12/03	--	ND<500	--	--	--	--	--
09/17/04	ND<5.0	ND<50	--	--	ND<1.0	ND<0.50	ND<0.50
12/11/04	ND<25	ND<250	--	--	ND<5.0	ND<2.5	ND<2.5
03/11/05	ND<5.0	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50
05/17/05	ND<5.0	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50
07/27/05	ND<5.0	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50
11/23/05	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50
02/24/06	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50



**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**Former 76 Station 0843**

Date Sampled	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
<b>MW-5</b>							
09/12/03	--	ND<500	--	--	--	--	--
03/11/05	ND<5.0	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50
05/17/05	ND<5.0	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50
07/27/05	ND<5.0	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50
11/23/05	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50
02/24/06	59	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50
<b>MW-6</b>							
03/17/01	ND	ND	ND	219	ND	ND	ND
09/24/01	ND<100	ND<1000000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
12/10/01	ND<500	ND<12000000	ND<25	ND<25	ND<25	ND<25	ND<25
03/11/02	ND<100	ND<500000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
12/12/02	ND<10000	ND<50000000	ND<200	ND<200	ND<200	ND<200	ND<200
03/13/03	ND<5000	ND<25000000	ND<100	ND<100	ND<100	ND<100	ND<100
06/12/03	ND<2000	ND<10000000	ND<40	ND<40	ND<40	ND<40	ND<40
09/12/03	--	ND<2500	--	--	--	--	--
02/12/04	ND<2000	ND<10000	ND<40	ND<40	ND<40	ND<40	ND<40
06/07/04	ND<200	ND<8000	ND<5	ND<5	ND<10	ND<10	ND<10
09/17/04	ND<100	ND<1000	--	--	ND<20	ND<10	ND<10
12/11/04	ND<100	ND<1000	--	--	ND<20	ND<10	ND<10
03/11/05	ND<100	ND<1000	--	--	ND<10	ND<10	ND<10
05/17/05	ND<100	ND<1000	--	--	ND<10	ND<10	ND<10
07/27/05	ND<100	ND<1000	--	--	ND<10	ND<10	ND<10
11/23/05	ND<10	ND<250	--	--	ND<0.50	ND<0.50	1.0
02/24/06	ND<10	ND<250	--	--	ND<0.50	ND<0.50	0.68

# COORDINATED EVENT DATA

**WELL CONCENTRATIONS**  
**Shell Service Station**  
**1601 Webster Street**  
**Alameda, CA**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
S-2	11/14/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.73	7.60	12.13
S-2	11/22/2005	996	0.630	0.500	0.500	3.10	406	<0.500	<0.500	0.570	18.0	NA	NA	NA	19.73	7.70	12.03
<b>S-2</b>	<b>02/24/2006</b>	<b>&lt;50 b</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>2.0</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;5.0</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>19.73</b>	<b>6.29</b>	<b>13.44</b>
S-3	11/14/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.14	7.01	12.13
S-3	11/22/2005	3,900	<0.500	<0.500	<0.500	0.900	3,730	<0.500	<0.500	3.44	26.0	NA	NA	NA	19.14	7.15	11.99
<b>S-3</b>	<b>02/24/2006</b>	<b>580 b</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>360</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;5.0</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>19.14</b>	<b>5.95</b>	<b>13.19</b>
S-4	11/14/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18.16	6.00	12.16
S-4	11/22/2005	4,570	<0.500	<0.500	<0.500	0.660	3,450	<0.500	<0.500	3.57	26.0	NA	NA	NA	18.16	6.10	12.06
<b>S-4</b>	<b>02/24/2006</b>	<b>2,200 b</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>1,400</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>1.4</b>	<b>13 c</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>18.16</b>	<b>5.09</b>	<b>13.07</b>
S-5	11/14/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18.68	6.33	12.35
S-5	11/22/2005	1,010	0.900	<0.500	1.79	4.91	302	<0.500	<0.500	<0.500	397	NA	NA	NA	18.68	6.44	12.24
<b>S-5</b>	<b>02/24/2006</b>	<b>&lt;50 b</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>19</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;5.0</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>18.68</b>	<b>5.44</b>	<b>13.24</b>
S-6	11/14/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.32	6.36	12.96
S-6	11/22/2005	15,800	5.14	0.690	32.1	934	<0.500	<0.500	<0.500	<0.500	14.2	NA	NA	NA	19.32	6.53	12.79
<b>S-6</b>	<b>01/19/2006</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>19.32</b>	<b>5.50</b>	<b>13.82</b>
<b>S-6</b>	<b>02/24/2006</b>	<b>7,900 b</b>	<b>4.4</b>	<b>&lt;1.5</b>	<b>260</b>	<b>380</b>	<b>&lt;1.5</b>	<b>&lt;1.5</b>	<b>&lt;1.5</b>	<b>&lt;1.5</b>	<b>&lt;7.0</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>19.32</b>	<b>5.76</b>	<b>13.56</b>
S-7	11/14/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.44	6.76	12.68
S-7	11/22/2005	51,100	2,680	2,980	969	6,360	1.49	<0.500	<0.500	<0.500	53.3	NA	NA	NA	19.44	6.88	12.56
<b>S-7</b>	<b>02/24/2006</b>	<b>22,000 b</b>	<b>1,700</b>	<b>1,200</b>	<b>1,200</b>	<b>2,800</b>	<b>&lt;2.5</b>	<b>&lt;2.5</b>	<b>&lt;2.5</b>	<b>&lt;2.5</b>	<b>58</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>19.44</b>	<b>5.73</b>	<b>13.71</b>
TBW-E	11/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.31	NA
TBW-E	12/01/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.01	NA
TBW-E	12/07/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.32	NA

**WELL CONCENTRATIONS**  
**Shell Service Station**  
**1601 Webster Street**  
**Alameda, CA**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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TBW-E	12/15/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.55	NA
TBW-E	12/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.95	NA
TBW-E	12/27/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.47	NA

TBW-N	11/23/2004	83,000	640	27,000	1,700	20,000	2,300	<400	<400	<400	1,300	<100	<100	<10,000	NA	5.64	NA
TBW-N	12/01/2004	160,000	700	31,000	2,300	24,000	2,900	<400	<400	<400	1,200	<100	<100	<10,000	NA	6.35	NA
TBW-N	12/07/2004	130,000	590	29,000	2,300	24,000	2,700	<400	<400	<400	1,300	<100	<100	<10,000	NA	5.65	NA
TBW-N	12/15/2004	120,000	420	26,000	2,000	22,000	3,300	<400	<400	<400	<1,000	<100	<100	<10,000	NA	5.85	NA
TBW-N	12/23/2004	100,000	220	23,000	1,900	20,000	1,900	<400	<400	<400	<1,000	<100	<100	<10,000	NA	5.30	NA
TBW-N	12/27/2004	110,000	470	26,000	2,300	22,000	1,800	<400	<400	<400	<1,000	<100	<100	<10,000	NA	7.80	NA
TBW-N	01/17/2005	86,000	330	22,000	2,200	21,000	1,600	<400	<400	<400	1,600	<100	<100	<10,000	NA	6.59	NA
TBW-N	02/04/2005	97,000	290	23,000	1,800	20,000	1,900	<400	<400	<400	<1,000	<100	<100	<10,000	NA	4.50	NA
TBW-N	03/02/2005	94,000	360	24,000	2,000	19,000	1,200	<400	<400	<400	<1,000	<100	<100	<10,000	NA	4.11	NA
TBW-N	04/12/2005	27,000	130	9,300	1,100	8,700	1,400	<100	<100	<20	390	<25	<25	<2,500	NA	4.08	NA
TBW-N	05/13/2005	42,000	130	8,700	1,500	12,000	1,400	<100	<100	<100	440	<25	<25	<2,500	NA	4.45	NA
TBW-N	06/10/2005	46,000	63	5,500	1,300	11,000	500	<100	<100	<100	<250	<25	<25	<2,500	NA	4.97	NA
TBW-N	07/15/2005	48,000	88	8,400	1,300	9,500	660	<100	<100	<100	310	<25	<25	<2,500	NA	5.18	NA
TBW-N	08/17/2005 a	36,000	85	8,500	1,200	11,000	510	<200	<200	<200	<500	<50	<50	<5,000	18.08	5.28	12.80
TBW-N	09/15/2005	20,000	59	2,400	730	9,300	600	<40	<40	<40	500	NA	NA	<1,000	18.08	5.92	12.16
TBW-N	10/17/2005	59,000	58	4,900	1,200	16,000	490	<100	<100	<100	<250	<25	<25	<2,500	18.08	5.96	12.12
TBW-N	11/22/2005	105,000	41.3	8,750	1,550	18,300	443	<0.500	<0.500	<0.500	248	<0.500	<0.500	<50.0	18.08	5.82	12.26
TBW-N	12/09/2005	4,770	43.4	5,110	1,110	13,500	493	<0.500	<0.500	<0.500	259	<0.500	<0.500	<50.0	18.08	5.60	12.48
TBW-N	01/05/2006	80,100	33.8	4,910	1,620	19,400	410	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<50.0	18.08	4.44	13.64
TBW-N	02/24/2006	56,000 b	15	2,700	1,000	12,000	270	<15	<15	<15	180	<15	<15	<150	18.08	4.67	13.41

TBW-S	11/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.18	NA
TBW-S	12/01/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.87	NA
TBW-S	12/07/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.15	NA

**WELL CONCENTRATIONS**  
**Shell Service Station**  
**1601 Webster Street**  
**Alameda, CA**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
TBW-S	12/15/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.38	NA
TBW-S	12/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.81	NA
TBW-S	12/27/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.35	NA
TBW-W	11/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.14	NA
TBW-W	12/01/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.86	NA
TBW-W	12/07/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.13	NA
TBW-W	12/15/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.37	NA
TBW-W	12/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.79	NA
TBW-W	12/27/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.32	NA

Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by modified EPA Method 8260B.

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B.

MTBE = Methyl tertiary butyl ether

DIPE = Di-isopropyl ether, analyzed by EPA Method 8260B

ETBE = Ethyl tertiary butyl ether, analyzed by EPA Method 8260B

TAME = Tertiary amyl methyl ether, analyzed by EPA Method 8260B

TBA = Tertiary butyl alcohol or tertiary butanol, analyzed by EPA Method 8260B

1,2-DCA = 1,2-Dichloroethane, analyzed by EPA Method 8260B

EDB = Ethylene Dibromide, analyzed by EPA Method 8260B

TOC = Top of Casing Elevation

GW = Groundwater

ug/L = Parts per billion

MSL = Mean sea level

ft. = Feet

<n = Below detection limit

NA = Not applicable

**WELL CONCENTRATIONS**  
**Shell Service Station**  
**1601 Webster Street**  
**Alameda, CA**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
---------	------	----------------	-------------	-------------	-------------	-------------	------------------------	----------------	----------------	----------------	---------------	-------------------	---------------	-------------------	--------------	----------------------------	--------------------------

Notes:

a = Extracted out of holding time.

b = Modified result. See lab report case narrative.

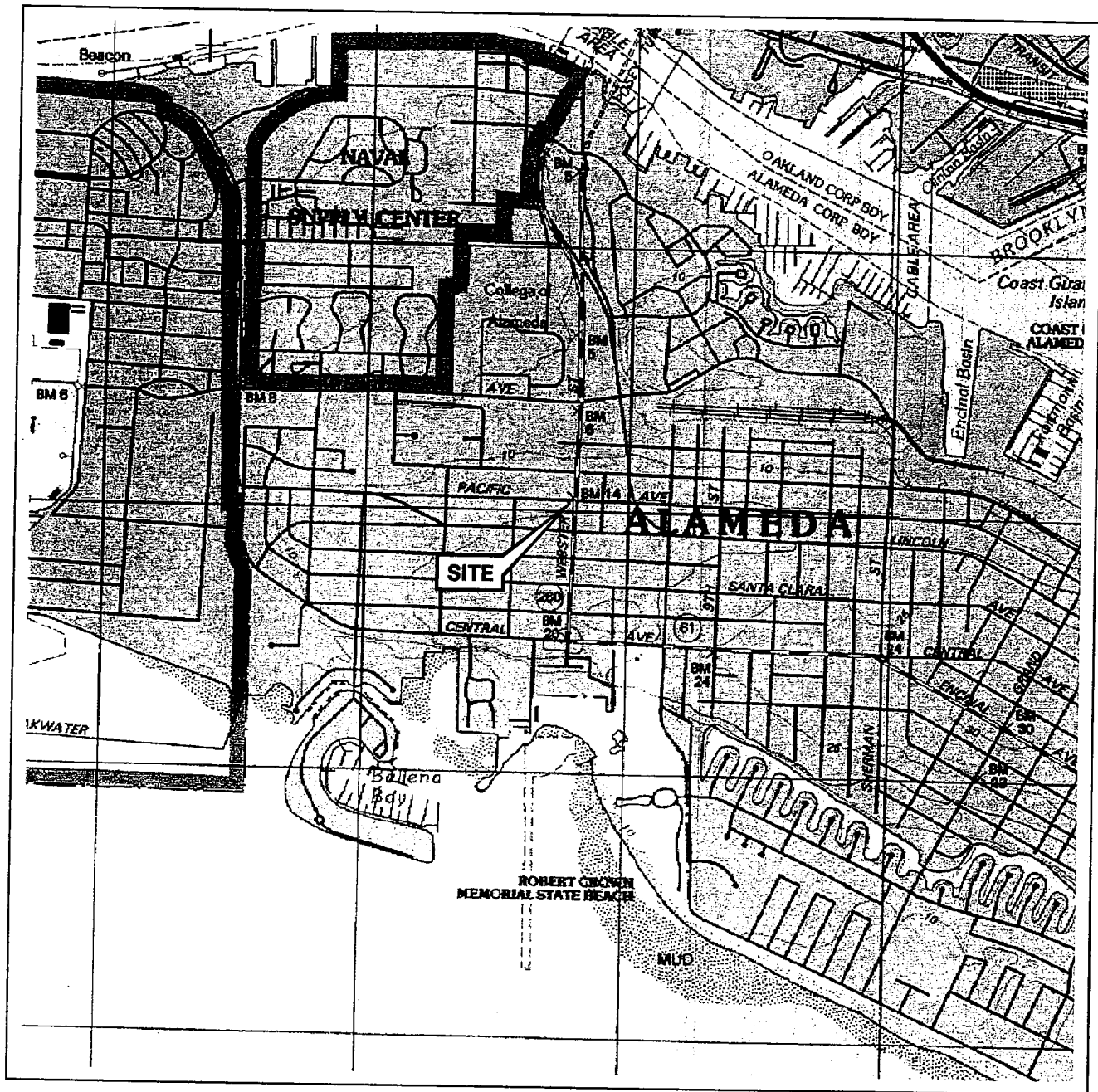
c = Result may be biased slightly high. See lab report case narrative.

Ethanol analyzed by EPA Method 8260B.

Well TBW-N surveyed September 1, 2005 by Virgil Chavez Land Surveying of Vallejo, CA.

Wells S-2 through S-7 surveyed on November 30, 2005 by Virgil Chavez Land Surveying of Vallejo, CA.

# FIGURES



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

SCALE 1:24,000



SOURCE:

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



VICINITY MAP

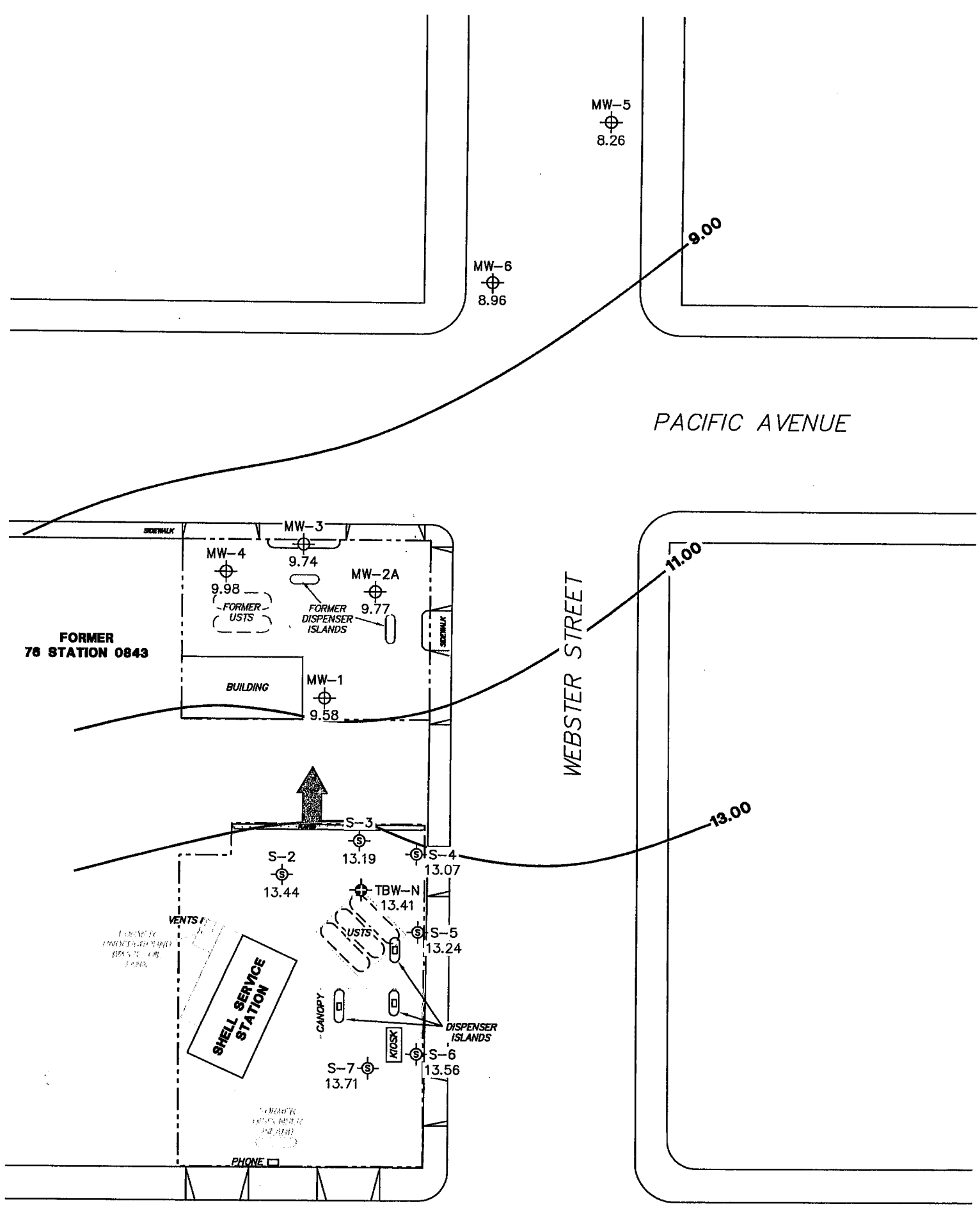
Former 76 Station 0843  
1629 Webster Street  
Alameda, California

**TRC**

**FIGURE 1**

PS = 1:1





**LEGEND**

MW-6 Former 76 Monitoring Well with Groundwater Elevation (feet)

S-7 Shell Service Station Monitoring Well with Groundwater Elevation (feet)

TBW-N Shell Tank Backfill Monitoring Well with Groundwater Elevation (feet)

13.00 Groundwater Elevation Contour

General Direction of Groundwater Flow

**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. Shell Service Station data provided by Blaine Tech.

**GROUNDWATER ELEVATION CONTOUR MAP**  
February 24, 2006

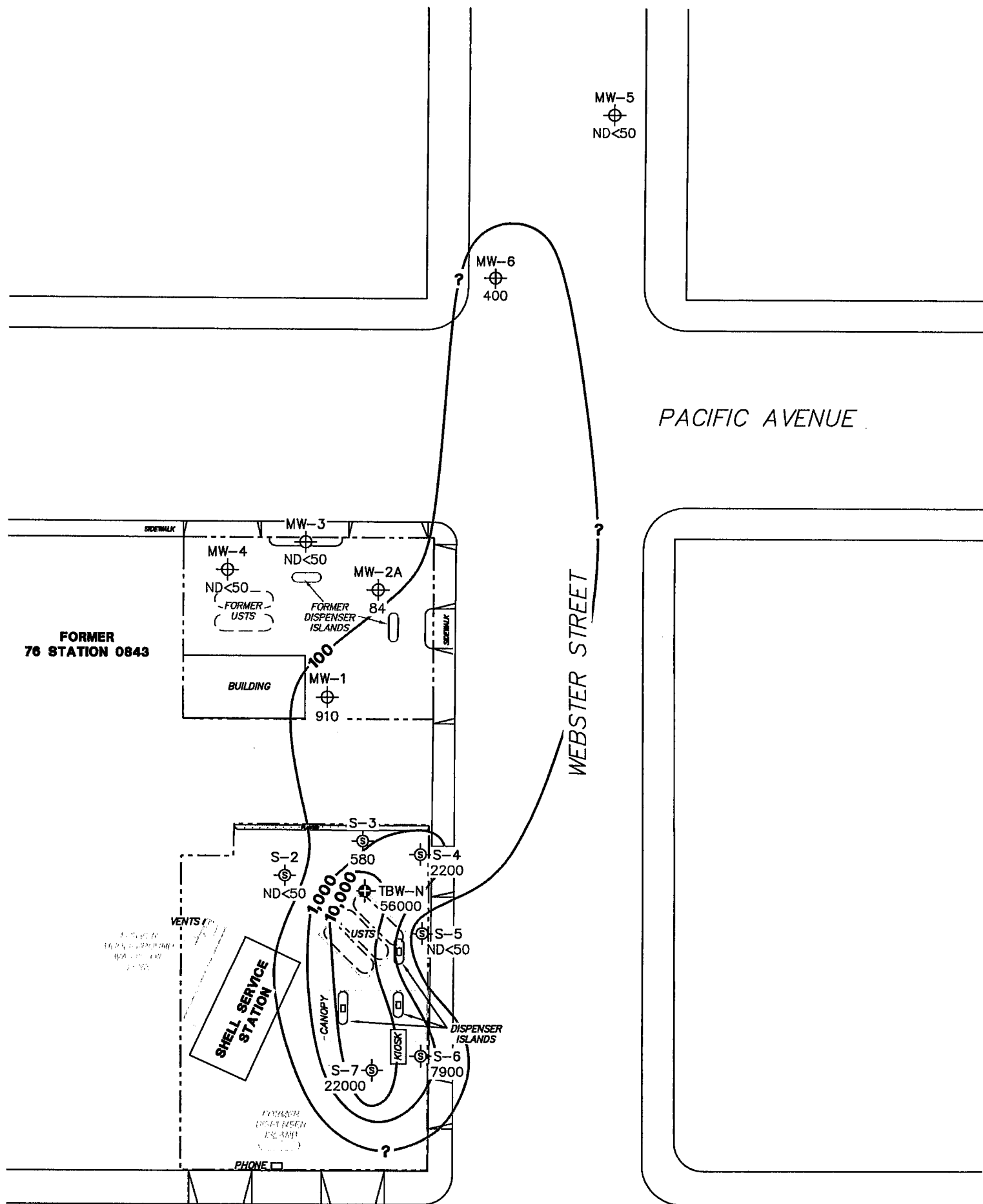
Former 76 Station 0843  
1629 Webster Street  
Alameda, California



SCALE (FEET)



**FIGURE 2**



**LEGEND**

- MW-6 Former 76 Monitoring Well with Dissolved-Phase TPH Concentration ( $\mu\text{g}/\text{l}$ )
- S-7 Shell Service Station Monitoring Well
- TBW-N Shell Tank Backfill Monitoring Well
- 10,000- Dissolved-Phase TPH Contour ( $\mu\text{g}/\text{l}$ )

**NOTES:**

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. TPHH = total purgeable petroleum hydrocarbons.  $\mu\text{g}/\text{l}$  = micrograms per liter. ND = not detected at limit indicated on official laboratory report. UST = underground storage tank. Shell Service Station data provided by Blaine Tech. Results obtained using EPA Method 8260.

**DISSOLVED-PHASE TPHH CONCENTRATIONS MAP**  
February 24, 2006

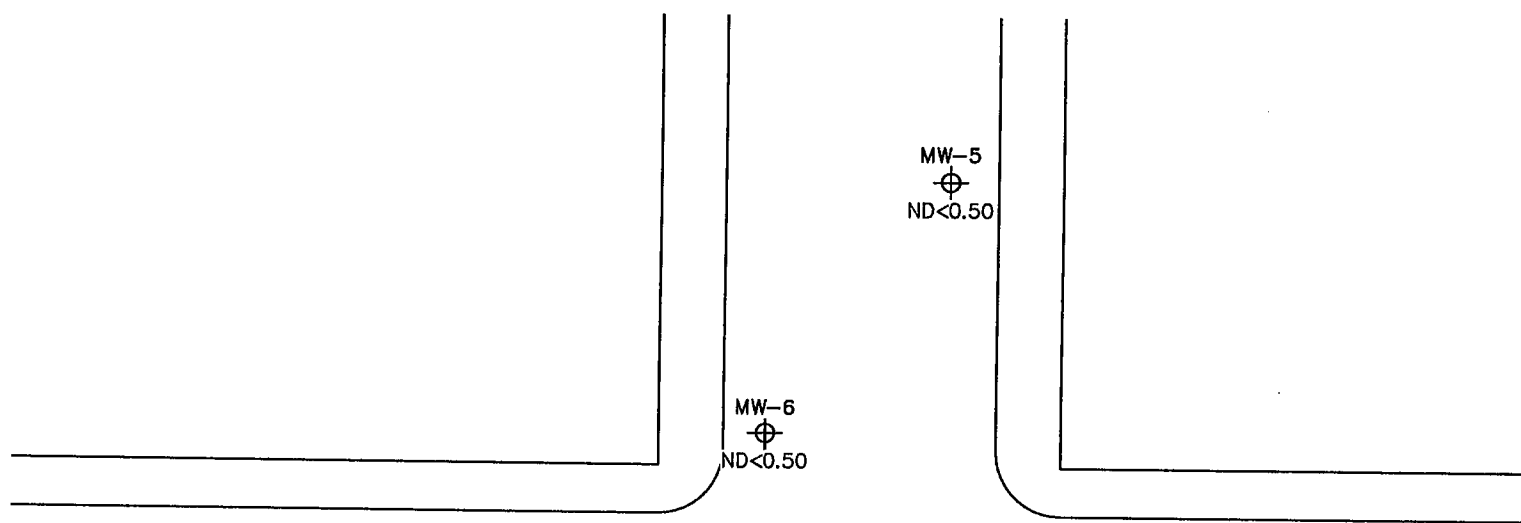
Former 76 Station 0843  
1629 Webster Street  
Alameda, California



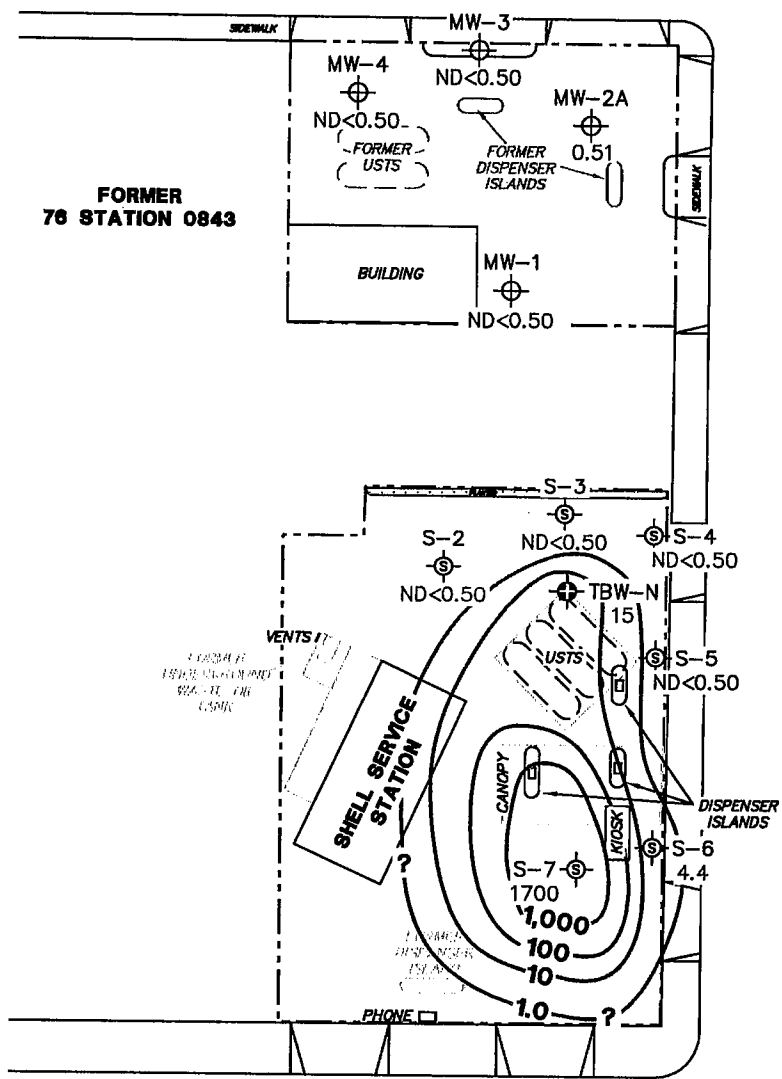
SCALE (FEET)



**FIGURE 3**



PACIFIC AVENUE



WEBSTER STREET

**LEGEND**

- MW-6 ⊕ Former 76 Monitoring Well with Dissolved-Phase Benzene Concentration ( $\mu\text{g}/\text{l}$ )
- S-7 ⊕ Shell Service Station Monitoring Well
- TBW-N ⊕ Shell Tank Backfill Monitoring Well
- 1,000- Dissolved-Phase Benzene Contour ( $\mu\text{g}/\text{l}$ )

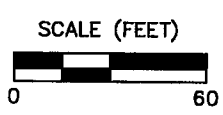
**NOTES:**

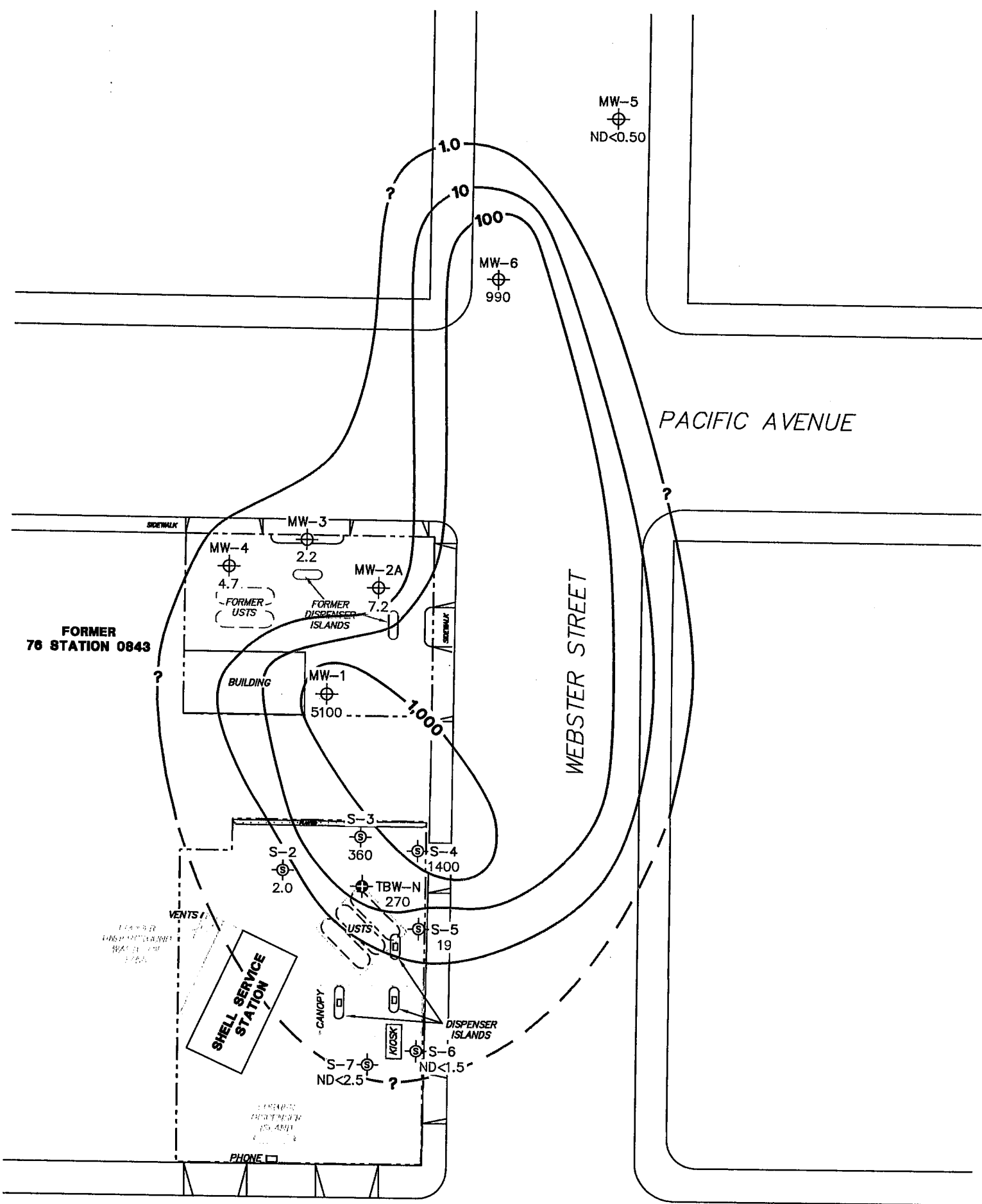
Contour lines are interpretive and based on laboratory analysis results of groundwater samples.  $\mu\text{g}/\text{l}$  = micrograms per liter. ND = not detected at limit indicated on official laboratory report. UST = underground storage tank. Shell Service Station data provided by Blaine Tech.

**DISSOLVED-PHASE BENZENE CONCENTRATIONS MAP**  
February 24, 2006

Former 76 Station 0843  
1629 Webster Street  
Alameda, California

**FIGURE 4**





**LEGEND**

- MW-6 ⊕ Former 76 Monitoring Well with Dissolved-Phase MTBE Concentration (µg/l)
- S-7 ⊕ Shell Service Station Monitoring Well
- TBW-N ⊕ Shell Tank Backfill Monitoring Well
- 1,000- Dissolved-Phase MTBE Contour (µg/l)

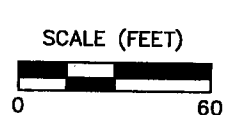
**NOTES:**

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. Dashes indicate contour based on non-detect at elevated detection limit. UST = underground storage tank. Shell Service Station data provided by Blaine Tech. Results obtained using EPA Method 8260B.

**DISSOLVED-PHASE MTBE CONCENTRATIONS MAP**  
**February 24, 2006**

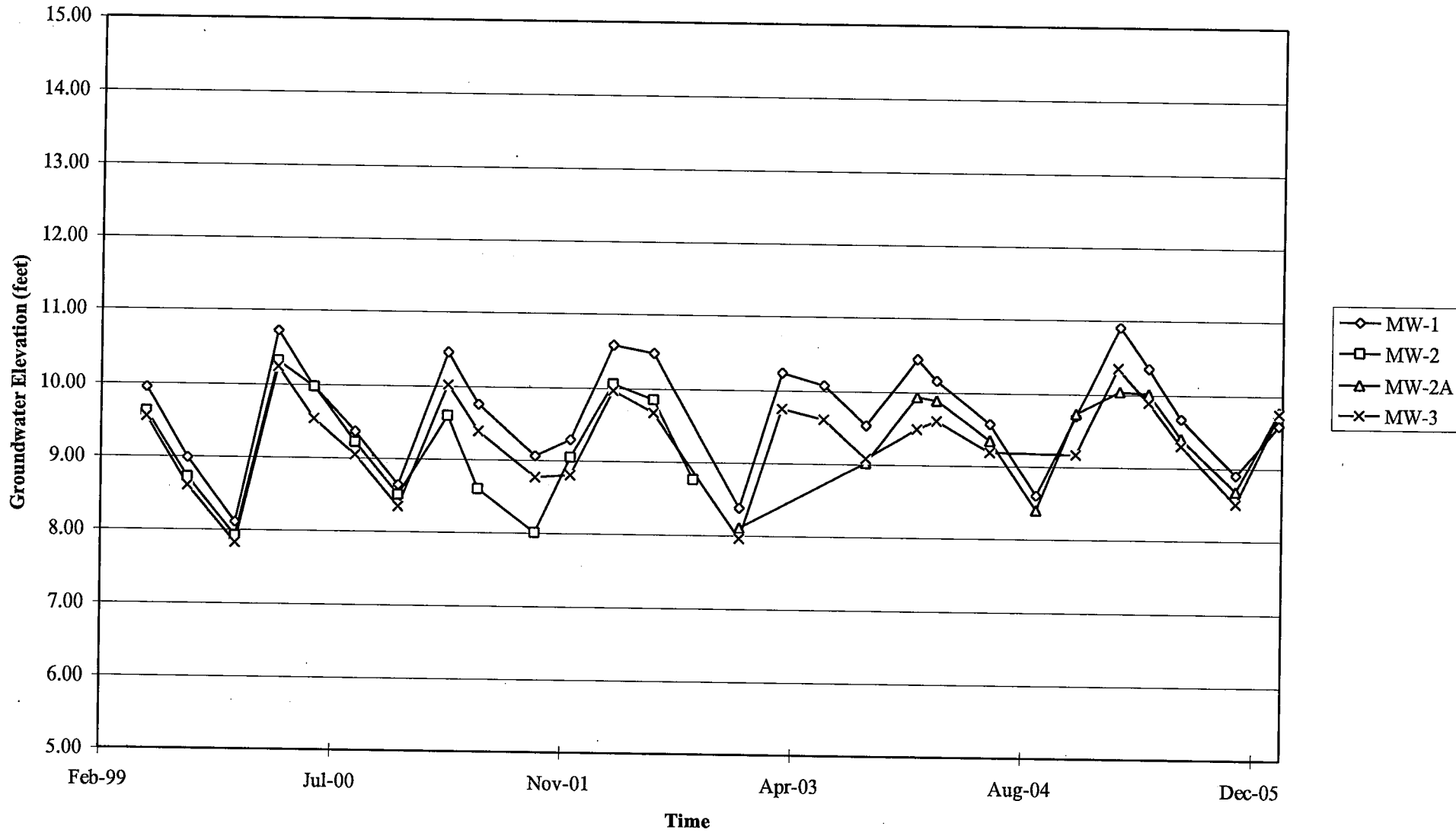
Former 76 Station 0843  
 1629 Webster Street  
 Alameda, California

**FIGURE 5**



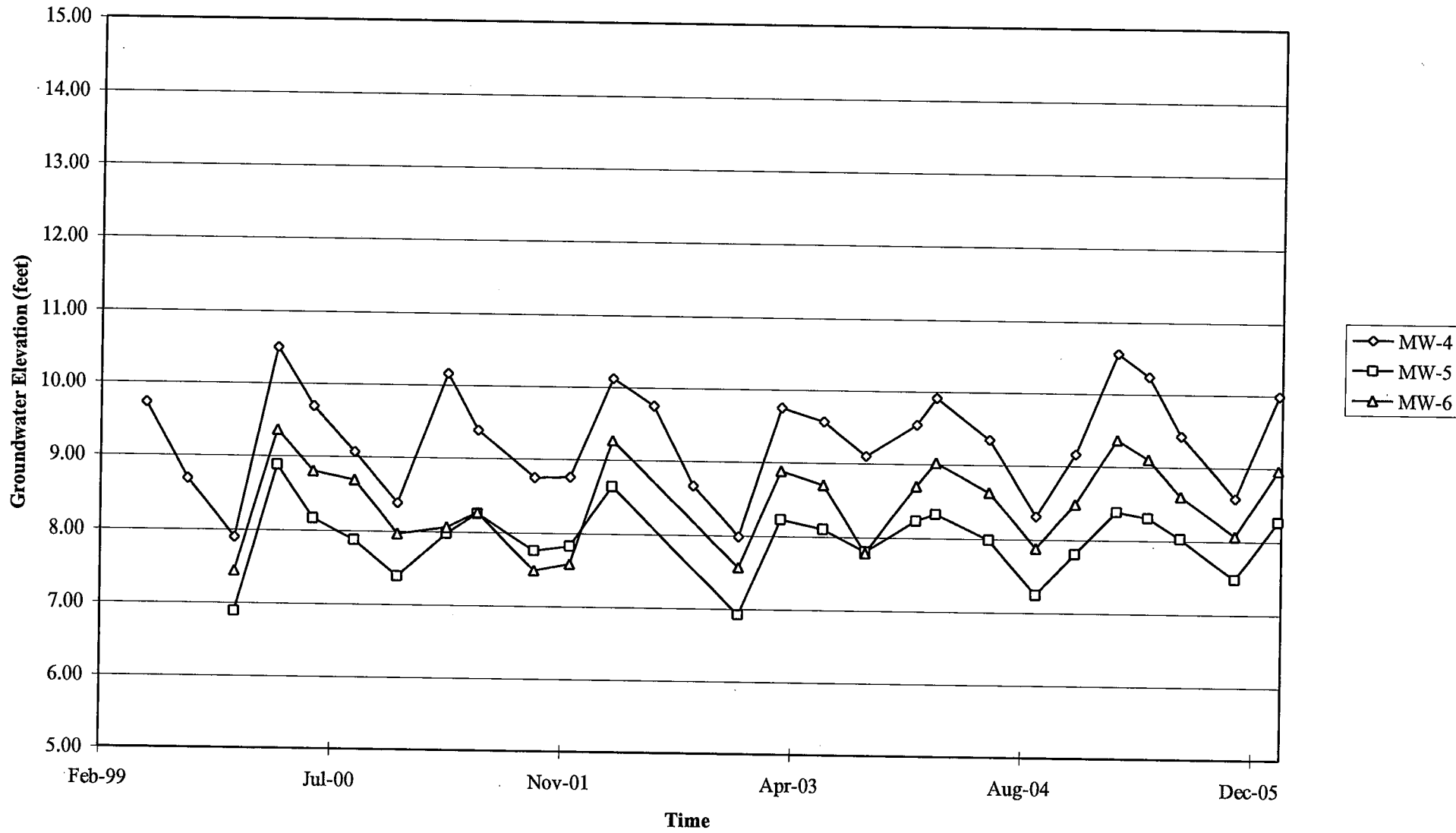
# GRAPHS

Groundwater Elevations vs. Time  
Former 76 Station 0843



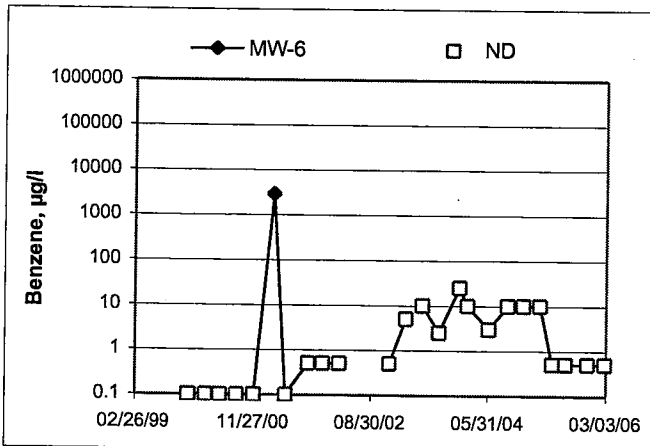
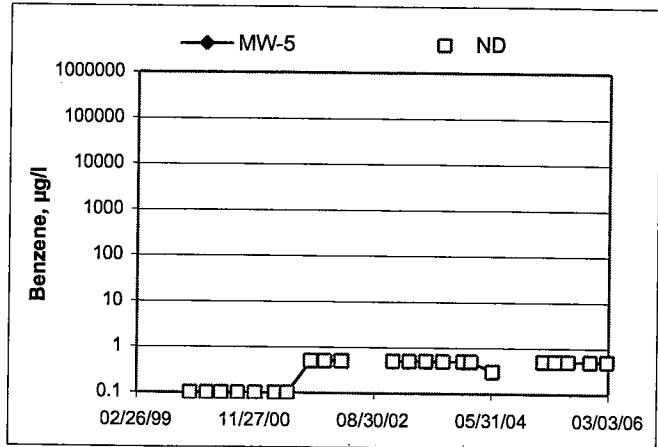
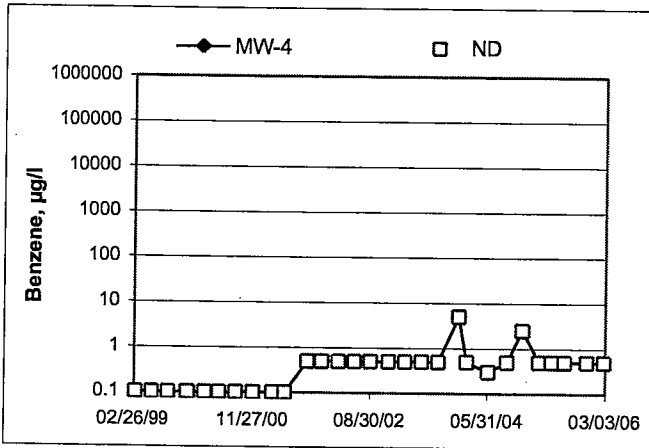
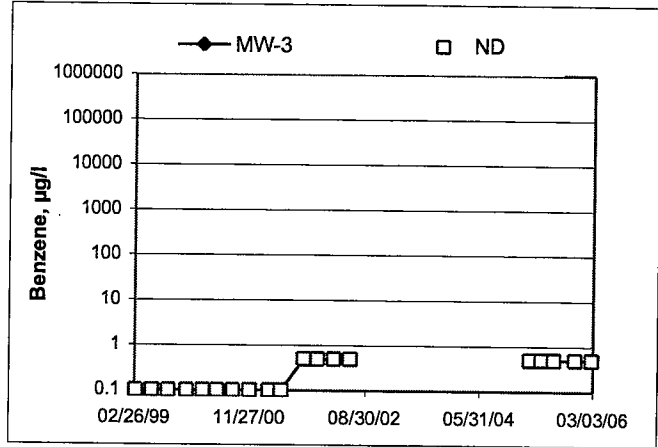
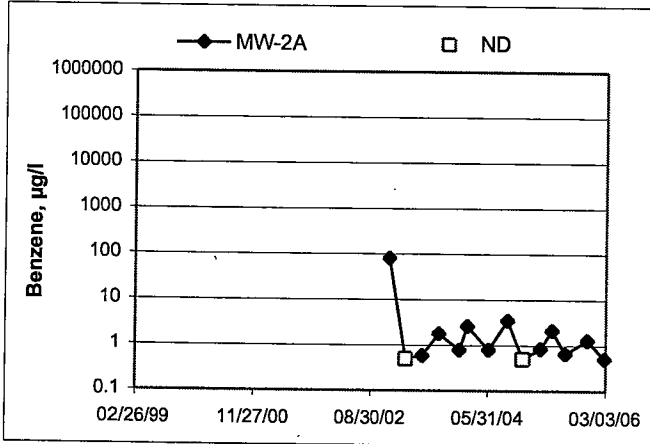
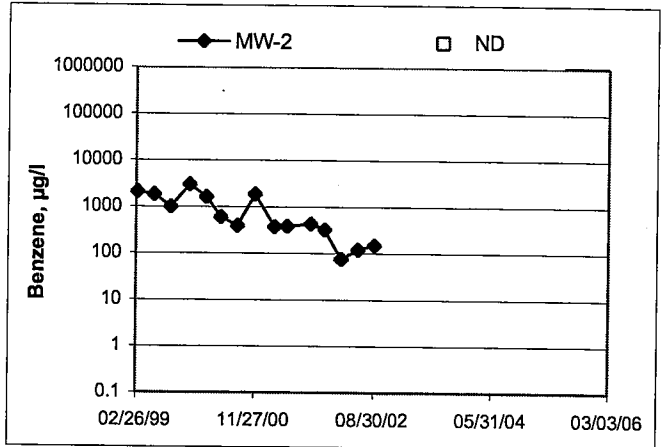
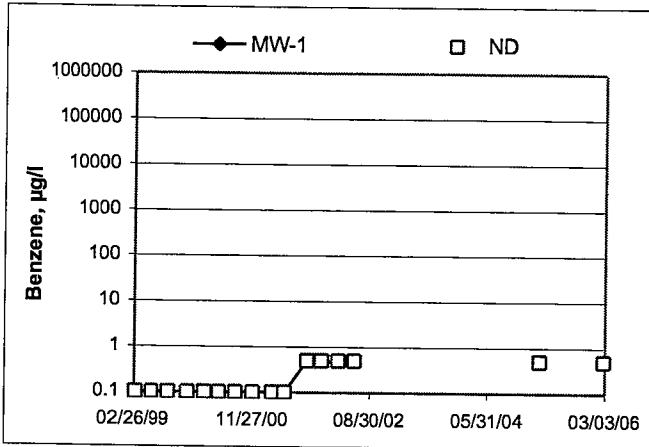
Elevations may have been corrected for apparent changes due to resurvey

Groundwater Elevations vs. Time  
Former 76 Station 0843



Elevations may have been corrected for apparent changes due to resurvey

### 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 measurements 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, sample time, and the sampler's 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 the 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 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 wells, 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: Nate

 Job #/Task #: 4105009

 Date: 07/24/09

 Site #: ~~0834~~ 0843 Project Manager A-COLLINS

 Page 1 of 1

Well #	Time Gauged	TOC	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
MW-5	0650	-	26.16	5.08	-	-	0701	2"
MW-3	0803	-	19.95	5.37	-	-	0859	2"
MW-4	0810	-	19.07	5.19	-	-	0919	2"
MW-1	0739	-	19.89	6.60	-	-	0940	2"
MW-2A	0747	-	10.55	5.79	-	-	0958	2"
MW-6	0755	-	19.96	5.12	-	-	1021	2"
FIELD DATA COMPLETE		QA/QC	COC		WELL BOX CONDITION SHEETS			
WTT CERTIFICATE		MANIFEST	DRUM INVENTORY		TRAFFIC CONTROL			

Field Mon Data Sheet.xls 7/28/2005

**GROUNDWATER SAMPLING FIELD NOTES**

Technician: Noble

Site: 0843

Project No.: 41050001

Date: 02/24/06

Well No.: MW-2A

Purge Method: DIA

Depth to Water (feet): 5.79

Depth to Product (feet): —

Total Depth (feet): 10.55

LPH & Water Recovered (gallons): —

Water Column (feet): 4.76

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 6.74

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.
0953			1	617	18.3	11.65		
			2	760	18.5	12.57		
	0955		3	753	18.6	12.43		
Static at Time Sampled		Total Gallons Purged			Time Sampled			
5:85		3			0958			
Comments:								

Well No.: MW-6

Purge Method: DIA

Depth to Water (feet): 5.12

Depth to Product (feet): —

Total Depth (feet): 19.96

LPH & Water Recovered (gallons): —

Water Column (feet): 14.84

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 8.09

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.
0115			2	560	18.6	8.54		
			4	576	19.3	8.30		
	0117		6	576	20.0	7.97		
Static at Time Sampled		Total Gallons Purged			Time Sampled			
7:45		6			1021			
Comments:								

**GROUNDWATER SAMPLING FIELD NOTES**

Technician: Nate  
 Site: 0843 Project No.: U1050001 Date: 02/24/06  
 Well No.: MW-5 Purge Method: DIA  
 Depth to Water (feet): 5.08 Depth to Product (feet): —  
 Total Depth (feet): 20.16 LPH & Water Recovered (gallons): —  
 Water Column (feet): 15.08 Casing Diameter (Inches): 2"  
 80% Recharge Depth (feet): 8.10 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.
0655			2	550	17.8	8.20		
			4	545	18.7	7.71		
	0657		6	548	19.3	7.55		
Static at Time Sampled		Total Gallons Purged			Time Sampled			
7.75		6			0701			
Comments:								

Well No.: MW-3 Purge Method: DIA  
 Depth to Water (feet): 5.37 Depth to Product (feet): —  
 Total Depth (feet): 19.95 LPH & Water Recovered (gallons): —  
 Water Column (feet): 14.58 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.
0850			2	588	18.0	8.71		
			4	612	18.6	8.43		
	0852		6	600	19.6	8.05		
Static at Time Sampled		Total Gallons Purged			Time Sampled			
7.55		6			0859			
Comments:								

**GROUNDWATER SAMPLING FIELD NOTES**

Technician: Nate  
 Site: 0543 Project No.: 41050001 Date: 2/24/06

Well No.: MW-4 Purge Method: DIA  
 Depth to Water (feet): 5.19 Depth to Product (feet): —  
 Total Depth (feet): 19.07 LPH & Water Recovered (gallons): —  
 Water Column (feet): 13.88 Casing Diameter (Inches): 2"  
 80% Recharge Depth (feet): 7.97 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.
0912			2	1248	18.3	9.36		
			4	1222	19.0	6.96		
	0914		6	1215	19.3	4.82		
Static at Time Sampled		Total Gallons Purged			Time Sampled			
07.01		0			0919			
Comments:								

Well No.: MW-1 Purge Method: DIA  
 Depth to Water (feet): 6.60 Depth to Product (feet): —  
 Total Depth (feet): 19.99 LPH & Water Recovered (gallons): —  
 Water Column (feet): 13.29 Casing Diameter (Inches): 2"  
 80% Recharge Depth (feet): 10.63 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.
0933			2	547	16.7	9.55		
			4	451	18.0	6.85		
	0935		6	463	18.2	8.29		
Static at Time Sampled		Total Gallons Purged			Time Sampled			
SB 4:01 7.03		0			SB 0939 0940			
Comments:								



**Laboratories, Inc**

Date of Report: 03/15/2006

Anju Farfan

TRC Alton Geoscience

21 Technology Drive  
Irvine, CA 92618-2302

RE: 0843

BC Lab Number: 0601963

Enclosed are the results of analyses for samples received by the laboratory on 02/28/06 22:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Vanessa Hooker", written over a horizontal line.

Contact Person: Vanessa Hooker

Client Service Rep

A handwritten signature in black ink, appearing to read "Richard J. Lamm", written over a horizontal line.

Authorized Signature



TRC Alton Geoscience  
21 Technology Drive  
Irvine CA, 92618-2302

Project: 0843  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 03/15/06 15:12

### Laboratory / Client Sample Cross Reference

**Laboratory    Client Sample Information**

<b>0601963-01</b>	<b>COC Number:</b> --- <b>Project Number:</b> 0843 <b>Sampling Location:</b> MW-6 <b>Sampling Point:</b> MW-6 <b>Sampled By:</b> Nate of TRCI	<b>Receive Date:</b> 02/28/06 22:30 <b>Sampling Date:</b> 02/24/06 10:21 <b>Sample Depth:</b> --- <b>Sample Matrix:</b> Water	<b>Delivery Work Order:</b> Global ID: T0600102263 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
<b>0601963-02</b>	<b>COC Number:</b> --- <b>Project Number:</b> 0843 <b>Sampling Location:</b> MW-5 <b>Sampling Point:</b> MW-5 <b>Sampled By:</b> Nate of TRCI	<b>Receive Date:</b> 02/28/06 22:30 <b>Sampling Date:</b> 02/24/06 07:01 <b>Sample Depth:</b> --- <b>Sample Matrix:</b> Water	<b>Delivery Work Order:</b> Global ID: T0600102263 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
<b>0601963-03</b>	<b>COC Number:</b> --- <b>Project Number:</b> 0843 <b>Sampling Location:</b> MW-4 <b>Sampling Point:</b> MW-4 <b>Sampled By:</b> Nate of TRCI	<b>Receive Date:</b> 02/28/06 22:30 <b>Sampling Date:</b> 02/24/06 09:19 <b>Sample Depth:</b> --- <b>Sample Matrix:</b> Water	<b>Delivery Work Order:</b> Global ID: T0600102263 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
<b>0601963-04</b>	<b>COC Number:</b> --- <b>Project Number:</b> 0843 <b>Sampling Location:</b> MW-3 <b>Sampling Point:</b> MW-3 <b>Sampled By:</b> Nate of TRCI	<b>Receive Date:</b> 02/28/06 22:30 <b>Sampling Date:</b> 02/24/06 08:59 <b>Sample Depth:</b> --- <b>Sample Matrix:</b> Water	<b>Delivery Work Order:</b> Global ID: T0600102263 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
<b>0601963-05</b>	<b>COC Number:</b> --- <b>Project Number:</b> 0843 <b>Sampling Location:</b> MW-2A <b>Sampling Point:</b> MW-2A <b>Sampled By:</b> Nate of TRCI	<b>Receive Date:</b> 02/28/06 22:30 <b>Sampling Date:</b> 02/24/06 09:58 <b>Sample Depth:</b> --- <b>Sample Matrix:</b> Water	<b>Delivery Work Order:</b> Global ID: T0600102263 Matrix: WG Sample QC Type (SACode): CS Cooler ID:





TRC Alton Geoscience  
21 Technology Drive  
Irvine CA, 92618-2302

Project: 0843  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 03/15/06 15:12

### Laboratory / Client Sample Cross Reference

**Laboratory    Client Sample Information**

<p><b>0601963-06</b></p> <p><b>COC Number:</b> ---</p> <p><b>Project Number:</b> 0843</p> <p><b>Sampling Location:</b> MW-1</p> <p><b>Sampling Point:</b> MW-1</p> <p><b>Sampled By:</b> Nate of TRCI</p>	<p><b>Receive Date:</b> 02/28/06 22:30</p> <p><b>Sampling Date:</b> 02/24/06 09:40</p> <p><b>Sample Depth:</b> ---</p> <p><b>Sample Matrix:</b> Water</p>	<p><b>Delivery Work Order:</b></p> <p>Global ID: T0600102263</p> <p>Matrix: WG</p> <p>Sample QC Type (SACode): CS</p> <p>Cooler ID:</p>
---	---	---



TRC Alton Geoscience  
21 Technology Drive  
Irvine CA, 92618-2302

Project: 0843  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 03/15/06 15:12

### Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0601963-01 Client Sample Name: 0843, MW-6, MW-6, 2/24/2006 10:21:00AM, Nate

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	03/02/06	03/04/06 01:22	CAR	MS-V6	1	BPC0215	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	03/02/06	03/04/06 01:22	CAR	MS-V6	1	BPC0215	ND	
Methyl t-butyl ether	990	ug/L	25		EPA-8260	03/02/06	03/06/06 11:26	CAR	MS-V6	50	BPC0215	ND	A01
Toluene	ND	ug/L	0.50		EPA-8260	03/02/06	03/04/06 01:22	CAR	MS-V6	1	BPC0215	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	03/02/06	03/04/06 01:22	CAR	MS-V6	1	BPC0215	ND	
t-Amyl Methyl ether	0.68	ug/L	0.50		EPA-8260	03/02/06	03/04/06 01:22	CAR	MS-V6	1	BPC0215	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	03/02/06	03/04/06 01:22	CAR	MS-V6	1	BPC0215	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	03/02/06	03/04/06 01:22	CAR	MS-V6	1	BPC0215	ND	
Ethanol	ND	ug/L	250		EPA-8260	03/02/06	03/04/06 01:22	CAR	MS-V6	1	BPC0215	ND	V11
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	03/02/06	03/04/06 01:22	CAR	MS-V6	1	BPC0215	ND	
Total Purgeable Petroleum Hydrocarbons	400	ug/L	50		EPA-8260	03/02/06	03/04/06 01:22	CAR	MS-V6	1	BPC0215	ND	A53
1,2-Dichloroethane-d4 (Surrogate)	105	%	76 - 114 (LCL - UCL)		EPA-8260	03/02/06	03/04/06 01:22	CAR	MS-V6	1	BPC0215		
1,2-Dichloroethane-d4 (Surrogate)	99.0	%	76 - 114 (LCL - UCL)		EPA-8260	03/02/06	03/06/06 11:26	CAR	MS-V6	50	BPC0215		A01
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)		EPA-8260	03/02/06	03/06/06 11:26	CAR	MS-V6	50	BPC0215		A01
Toluene-d8 (Surrogate)	99.8	%	88 - 110 (LCL - UCL)		EPA-8260	03/02/06	03/04/06 01:22	CAR	MS-V6	1	BPC0215		
4-Bromofluorobenzene (Surrogate)	101	%	86 - 115 (LCL - UCL)		EPA-8260	03/02/06	03/06/06 11:26	CAR	MS-V6	50	BPC0215		A01
4-Bromofluorobenzene (Surrogate)	97.5	%	86 - 115 (LCL - UCL)		EPA-8260	03/02/06	03/04/06 01:22	CAR	MS-V6	1	BPC0215		



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### Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0601963-02		Client Sample Name: 0843, MW-5, MW-5, 2/24/2006 7:01:00AM, Nate												
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru- ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Benzene	ND	ug/L	0.50		EPA-8260	03/02/06	03/03/06 18:31	CAR	MS-V6	1	BPC0215	ND		
Ethylbenzene	ND	ug/L	0.50		EPA-8260	03/02/06	03/03/06 18:31	CAR	MS-V6	1	BPC0215	ND		
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	03/02/06	03/03/06 18:31	CAR	MS-V6	1	BPC0215	ND		
Toluene	ND	ug/L	0.50		EPA-8260	03/02/06	03/03/06 18:31	CAR	MS-V6	1	BPC0215	ND		
Total Xylenes	ND	ug/L	1.0		EPA-8260	03/02/06	03/03/06 18:31	CAR	MS-V6	1	BPC0215	ND		
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	03/02/06	03/03/06 18:31	CAR	MS-V6	1	BPC0215	ND		
t-Butyl alcohol	59	ug/L	10		EPA-8260	03/02/06	03/03/06 18:31	CAR	MS-V6	1	BPC0215	ND		
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	03/02/06	03/03/06 18:31	CAR	MS-V6	1	BPC0215	ND		
Ethanol	ND	ug/L	250		EPA-8260	03/02/06	03/03/06 18:31	CAR	MS-V6	1	BPC0215	ND		
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	03/02/06	03/03/06 18:31	CAR	MS-V6	1	BPC0215	ND	V11	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	03/02/06	03/03/06 18:31	CAR	MS-V6	1	BPC0215	ND		
1,2-Dichloroethane-d4 (Surrogate)	95.8	%	76 - 114 (LCL - UCL)		EPA-8260	03/02/06	03/03/06 18:31	CAR	MS-V6	1	BPC0215	ND		
Toluene-d8 (Surrogate)	97.0	%	88 - 110 (LCL - UCL)		EPA-8260	03/02/06	03/03/06 18:31	CAR	MS-V6	1	BPC0215	ND		
4-Bromofluorobenzene (Surrogate)	100	%	86 - 115 (LCL - UCL)		EPA-8260	03/02/06	03/03/06 18:31	CAR	MS-V6	1	BPC0215	ND		



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### Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0601963-03		Client Sample Name: 0843, MW-4, MW-4, 2/24/2006 9:19:00AM, Nate											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	03/02/06	03/04/06 02:53	CAR	MS-V6	1	BPC0215	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	03/02/06	03/04/06 02:53	CAR	MS-V6	1	BPC0215	ND	
Methyl t-butyl ether	4.7	ug/L	0.50		EPA-8260	03/02/06	03/04/06 02:53	CAR	MS-V6	1	BPC0215	ND	
Toluene	ND	ug/L	0.50		EPA-8260	03/02/06	03/04/06 02:53	CAR	MS-V6	1	BPC0215	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	03/02/06	03/04/06 02:53	CAR	MS-V6	1	BPC0215	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	03/02/06	03/04/06 02:53	CAR	MS-V6	1	BPC0215	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	03/02/06	03/04/06 02:53	CAR	MS-V6	1	BPC0215	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	03/02/06	03/04/06 02:53	CAR	MS-V6	1	BPC0215	ND	
Ethanol	ND	ug/L	250		EPA-8260	03/02/06	03/04/06 02:53	CAR	MS-V6	1	BPC0215	ND	V11
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	03/02/06	03/04/06 02:53	CAR	MS-V6	1	BPC0215	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	03/02/06	03/04/06 02:53	CAR	MS-V6	1	BPC0215	ND	
1,2-Dichloroethane-d4 (Surrogate)	106	%	76 - 114 (LCL - UCL)		EPA-8260	03/02/06	03/04/06 02:53	CAR	MS-V6	1	BPC0215		
Toluene-d8 (Surrogate)	98.6	%	88 - 110 (LCL - UCL)		EPA-8260	03/02/06	03/04/06 02:53	CAR	MS-V6	1	BPC0215		
4-Bromofluorobenzene (Surrogate)	101	%	86 - 115 (LCL - UCL)		EPA-8260	03/02/06	03/04/06 02:53	CAR	MS-V6	1	BPC0215		

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## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0601963-04 Client Sample Name: 0843, MW-3, MW-3, 2/24/2006 8:59:00AM, Nate

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	03/02/06	03/04/06 01:45	CAR	MS-V6	1	BPC0215	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	03/02/06	03/04/06 01:45	CAR	MS-V6	1	BPC0215	ND	
Methyl t-butyl ether	2.2	ug/L	0.50		EPA-8260	03/02/06	03/04/06 01:45	CAR	MS-V6	1	BPC0215	ND	
Toluene	ND	ug/L	0.50		EPA-8260	03/02/06	03/04/06 01:45	CAR	MS-V6	1	BPC0215	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	03/02/06	03/04/06 01:45	CAR	MS-V6	1	BPC0215	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	03/02/06	03/04/06 01:45	CAR	MS-V6	1	BPC0215	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	03/02/06	03/04/06 01:45	CAR	MS-V6	1	BPC0215	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	03/02/06	03/04/06 01:45	CAR	MS-V6	1	BPC0215	ND	
Ethanol	ND	ug/L	250		EPA-8260	03/02/06	03/04/06 01:45	CAR	MS-V6	1	BPC0215	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	03/02/06	03/04/06 01:45	CAR	MS-V6	1	BPC0215	ND	V11
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	03/02/06	03/04/06 01:45	CAR	MS-V6	1	BPC0215	ND	
1,2-Dichloroethane-d4 (Surrogate)	107	%	76 - 114 (LCL - UCL)		EPA-8260	03/02/06	03/04/06 01:45	CAR	MS-V6	1	BPC0215	ND	
Toluene-d8 (Surrogate)	96.5	%	88 - 110 (LCL - UCL)		EPA-8260	03/02/06	03/04/06 01:45	CAR	MS-V6	1	BPC0215		
4-Bromofluorobenzene (Surrogate)	96.0	%	86 - 115 (LCL - UCL)		EPA-8260	03/02/06	03/04/06 01:45	CAR	MS-V6	1	BPC0215		

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## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0601963-05		Client Sample Name: 0843, MW-2A, MW-2A, 2/24/2006 9:58:00AM, Nate											
Constituent	Result	Units	PQL	MDL	Method	Prep	Run	Analyst	Instru- ment ID	Dilution	QC	MB	Lab Quals
						Date	Date/Time				Batch ID	Bias	
Benzene	0.51	ug/L	0.50		EPA-8260	03/02/06	03/04/06 02:08	CAR	MS-V6	1	BPC0215	ND	
Ethylbenzene	4.2	ug/L	0.50		EPA-8260	03/02/06	03/04/06 02:08	CAR	MS-V6	1	BPC0215	ND	
Methyl t-butyl ether	7.2	ug/L	0.50		EPA-8260	03/02/06	03/04/06 02:08	CAR	MS-V6	1	BPC0215	ND	
Toluene	1.2	ug/L	0.50		EPA-8260	03/02/06	03/04/06 02:08	CAR	MS-V6	1	BPC0215	ND	
Total Xylenes	16	ug/L	1.0		EPA-8260	03/02/06	03/04/06 02:08	CAR	MS-V6	1	BPC0215	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	03/02/06	03/04/06 02:08	CAR	MS-V6	1	BPC0215	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	03/02/06	03/04/06 02:08	CAR	MS-V6	1	BPC0215	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	03/02/06	03/04/06 02:08	CAR	MS-V6	1	BPC0215	ND	V11
Ethanol	ND	ug/L	250		EPA-8260	03/02/06	03/04/06 02:08	CAR	MS-V6	1	BPC0215	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	03/02/06	03/04/06 02:08	CAR	MS-V6	1	BPC0215	ND	
Total Purgeable Petroleum Hydrocarbons	84	ug/L	50		EPA-8260	03/02/06	03/04/06 02:08	CAR	MS-V6	1	BPC0215	ND	
1,2-Dichloroethane-d4 (Surrogate)	103	%	76 - 114 (LCL - UCL)		EPA-8260	03/02/06	03/04/06 02:08	CAR	MS-V6	1	BPC0215		
Toluene-d8 (Surrogate)	97.9	%	88 - 110 (LCL - UCL)		EPA-8260	03/02/06	03/04/06 02:08	CAR	MS-V6	1	BPC0215		
4-Bromofluorobenzene (Surrogate)	100	%	86 - 115 (LCL - UCL)		EPA-8260	03/02/06	03/04/06 02:08	CAR	MS-V6	1	BPC0215		



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### Volatile Organic Analysis (EPA Method 8260)

**BCL Sample ID:** 0601963-06    **Client Sample Name:** 0843, MW-1, MW-1, 2/24/2006 9:40:00AM, Nate

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	03/02/06	03/04/06 02:31	CAR	MS-V6	1	BPC0215	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	03/02/06	03/04/06 02:31	CAR	MS-V6	1	BPC0215	ND	
Methyl t-butyl ether	5100	ug/L	50		EPA-8260	03/02/06	03/06/06 11:49	CAR	MS-V6	100	BPC0215	ND	A01
Toluene	ND	ug/L	0.50		EPA-8260	03/02/06	03/04/06 02:31	CAR	MS-V6	1	BPC0215	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	03/02/06	03/04/06 02:31	CAR	MS-V6	1	BPC0215	ND	
t-Amyl Methyl ether	5.5	ug/L	0.50		EPA-8260	03/02/06	03/04/06 02:31	CAR	MS-V6	1	BPC0215	ND	
t-Butyl alcohol	62	ug/L	10		EPA-8260	03/02/06	03/04/06 02:31	CAR	MS-V6	1	BPC0215	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	03/02/06	03/04/06 02:31	CAR	MS-V6	1	BPC0215	ND	
Ethanol	ND	ug/L	250		EPA-8260	03/02/06	03/04/06 02:31	CAR	MS-V6	1	BPC0215	ND	V11
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	03/02/06	03/04/06 02:31	CAR	MS-V6	1	BPC0215	ND	
Total Purgeable Petroleum Hydrocarbons	910	ug/L	50		EPA-8260	03/02/06	03/04/06 02:31	CAR	MS-V6	1	BPC0215	ND	A53
1,2-Dichloroethane-d4 (Surrogate)	106	%	76 - 114 (LCL - UCL)		EPA-8260	03/02/06	03/04/06 02:31	CAR	MS-V6	1	BPC0215		
1,2-Dichloroethane-d4 (Surrogate)	97.5	%	76 - 114 (LCL - UCL)		EPA-8260	03/02/06	03/06/06 11:49	CAR	MS-V6	100	BPC0215		A01
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)		EPA-8260	03/02/06	03/04/06 02:31	CAR	MS-V6	1	BPC0215		
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)		EPA-8260	03/02/06	03/06/06 11:49	CAR	MS-V6	100	BPC0215		A01
4-Bromofluorobenzene (Surrogate)	97.4	%	86 - 115 (LCL - UCL)		EPA-8260	03/02/06	03/04/06 02:31	CAR	MS-V6	1	BPC0215		
4-Bromofluorobenzene (Surrogate)	99.8	%	86 - 115 (LCL - UCL)		EPA-8260	03/02/06	03/06/06 11:49	CAR	MS-V6	100	BPC0215		A01



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### Volatile Organic Analysis (EPA Method 8260) Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample ID	QC Sample Type	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
									Percent Recovery	Percent RPD	
Benzene	BPC0215	BPC0215-MS1	Matrix Spike	ND	25.229	25.000	ug/L		101		70 - 130
		BPC0215-MSD1	Matrix Spike Duplicate	ND	24.456	25.000	ug/L	3.22	97.8	20	70 - 130
Toluene	BPC0215	BPC0215-MS1	Matrix Spike	ND	25.095	25.000	ug/L		100		70 - 130
		BPC0215-MSD1	Matrix Spike Duplicate	ND	25.602	25.000	ug/L	1.98	102	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	BPC0215	BPC0215-MS1	Matrix Spike	ND	10.102	10.000	ug/L		101		76 - 114
		BPC0215-MSD1	Matrix Spike Duplicate	ND	9.8643	10.000	ug/L		98.6		76 - 114
Toluene-d8 (Surrogate)	BPC0215	BPC0215-MS1	Matrix Spike	ND	9.8256	10.000	ug/L		98.3		88 - 110
		BPC0215-MSD1	Matrix Spike Duplicate	ND	10.158	10.000	ug/L		102		88 - 110
4-Bromofluorobenzene (Surrogate)	BPC0215	BPC0215-MS1	Matrix Spike	ND	9.8557	10.000	ug/L		98.6		86 - 115
		BPC0215-MSD1	Matrix Spike Duplicate	ND	10.450	10.000	ug/L		104		86 - 115





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### Volatile Organic Analysis (EPA Method 8260) Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits		Lab Quals
										Percent Recovery	RPD	
Benzene	BPC0215	BPC0215-BS1	LCS	24.881	25.000	0.50	ug/L	99.5		70 - 130		
Toluene	BPC0215	BPC0215-BS1	LCS	25.849	25.000	0.50	ug/L	103		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BPC0215	BPC0215-BS1	LCS	9.4240	10.000		ug/L	94.2		76 - 114		
Toluene-d8 (Surrogate)	BPC0215	BPC0215-BS1	LCS	10.098	10.000		ug/L	101		88 - 110		
4-Bromofluorobenzene (Surrogate)	BPC0215	BPC0215-BS1	LCS	10.722	10.000		ug/L	107		86 - 115		



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### Volatile Organic Analysis (EPA Method 8260) Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Benzene	BPC0215	BPC0215-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	BPC0215	BPC0215-BLK1	ND	ug/L	0.50	0.14	
Methyl t-butyl ether	BPC0215	BPC0215-BLK1	ND	ug/L	0.50	0.15	
Toluene	BPC0215	BPC0215-BLK1	ND	ug/L	0.50	0.15	
Total Xylenes	BPC0215	BPC0215-BLK1	ND	ug/L	1.0	0.40	
t-Amyl Methyl ether	BPC0215	BPC0215-BLK1	ND	ug/L	0.50	0.31	
t-Butyl alcohol	BPC0215	BPC0215-BLK1	ND	ug/L	10	10	
Diisopropyl ether	BPC0215	BPC0215-BLK1	ND	ug/L	0.50	0.23	
Ethanol	BPC0215	BPC0215-BLK1	ND	ug/L	1000	110	
Ethyl t-butyl ether	BPC0215	BPC0215-BLK1	ND	ug/L	0.50	0.27	
Total Purgeable Petroleum Hydrocarbons	BPC0215	BPC0215-BLK1	ND	ug/L	50	23	
1,2-Dichloroethane-d4 (Surrogate)	BPC0215	BPC0215-BLK1	101	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BPC0215	BPC0215-BLK1	97.9	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BPC0215	BPC0215-BLK1	97.2	%	86 - 115 (LCL - UCL)		

Submission #: 06-01963

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 B/W  
Temperature: 3.8°C  
Thermometer ID: #98

Emissivity 0.97  
Container Gas

Date/Time 2/28/06  
Analyst Init OTD

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										
PTA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A.3.	A.3.	A.3.	A.3.	A.3.	A.3.				
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 8015M										
QT OAOQC										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:           

Sample Numbering Completed By: OTD

Date/Time: 3/1/06 0030

BC LABORATORIES, INC.

4100 Atlas Court □ Bakersfield CA 93308  
(661) 327-4911 □ FAX (661) 327-1913

CHK BY	DISTRIBUTION
<i>[Signature]</i>	<input checked="" type="checkbox"/> SW <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
CHAMPION	CUSTOMER

06-01963

Analysis Requested

Circle one: Phillips 66 / Unocal		Consultant Firm: TRC		MATRIX (GW) Ground-water (S) Soil (WW) Waste-water (SL) Sludge	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	Turnaround Time Requested
Address: <i>1629 Webster street</i>		21 Techology Drive Irvine, CA 92618-2302 Attn: Anju Farfan										
City: <i>Alameda</i>		4-digit site#: <del>0634</del> 0843										
State: CA Zip:		Workorder # <i>2607TRC502</i>										
Phillips 66 /Unocal Mgr:		Project #: <i>41050001</i>										
		Sampler Name: <i>Note</i>										
Lab#	Sample Description	Field Point Name	Date & Time Sampled									
	<i>MW6 -1</i>		<i>08/11/06 1021</i>	<i>BW</i>								
	<i>MW5 -2</i>		<i>0701</i>									
	<i>MW4 -3</i>		<i>0919</i>									
	<i>MW3 -4</i>		<i>0659</i>									
	<i>MW-2A -5</i>		<i>0956</i>									
	<i>MW1 -6</i>		<i>0940</i>									

Comments  GLOBAL ID: <i>78600102263</i>	Relinquished by (Signature): <i>[Signature]</i>	Received by: <i>Redman</i>	Date & Time: <i>02/24/06 1144</i>
	Relinquished by (Signature): <i>[Signature]</i>	Received by: <i>Ross Dickey</i>	Date & Time: <i>02-28-06 1413</i>
	Relinquished by (Signature): <i>Ross Dickey</i>	Received by: <i>[Signature]</i>	Date & Time: <i>2-28-06 1405</i>

*Terri Obafemi 2/28/06 2230*

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

## **STATEMENTS**

### **Purge Water Disposal**

Non-hazardous groundwater produced during purging and sampling of monitoring was accumulated at TRC's groundwater monitoring facility at Concord, California, for transportation by Onyx Transportation, Inc., to the Conoco Phillips 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 containing a significant amount of liquid -phase hydrocarbons was accumulated separately in drums for transportation and disposal by Filter R 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.