



76 Broadway  
Sacramento, California 95818

**RECEIVED**

9:49 am, May 19, 2008

Alameda County  
Environmental Health

May 14, 2008

Ms. Barbara Jakub  
Alameda County Health Agency  
1131 Harbor Bay Parkway  
Alameda, California 94502

Re: **Quarterly Summary Report – 1st Quarter 2008  
and Sensitive Receptor Survey**

**76 Service Station #0843  
1629 Webster Street  
Oakland, CA**

Dear Ms. Jakub:

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 me at (916) 558-7612.

Sincerely,

Bill Borgh

Bill Borgh  
Site Manager – Risk Management and Remediation

Attachment

May 14, 2008

Ms. Barbara Jakub  
Alameda County Health Agency  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502

**Re: Quarterly Summary Report – First Quarter 2008  
And Sensitive Receptor Survey**  
Delta Project No. C1Q-2349-604



Dear Ms. Jakub:

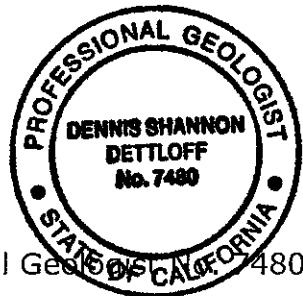
On behalf of ConocoPhillips Company (COP), Delta Consultants (Delta) is submitting the first quarter 2008 Quarterly Summary Report and forwarding a copy of TRC's *Quarterly Monitoring Report, January through March 2008*, dated April 3, 2008, for the following location:

<u>Service Station</u>	<u>Location</u>
76 Service Station No. 0843	1629 Webster Street Alameda, California

Sincerely,  
**Delta Consultants**

Handwritten signature of Dennis S. Dettloff.

Dennis S. Dettloff, P.G.  
Senior Project Manager  
California Registered Professional Geologist



cc: Mr. William Borgh, ConocoPhillips (electronic copy)

a member of:



---

11050 WHITE ROCK ROAD      SUITE 110      RANCHO CORDOVA, CALIFORNIA 95670 USA  
PHONE 916.638.2085 / 800.477.7411 FAX 916.638.8385 [WWW.DELTAENV.COM](http://WWW.DELTAENV.COM)

**QUARTERLY SUMMARY REPORT**  
**Sensitive Receptor Survey**  
**First Quarter 2008**  
**76 Service Station No. 0843**  
**1629 Webster Street**  
**Alameda, California**

## **PREVIOUS ASSESSMENT**

June 1998 - Tosco Marketing Company (Tosco, now ConocoPhillips) exhumed and removed two 10,000-gallon gasoline underground storage tanks (USTs), one 550-gallon used oil UST, product lines, and fuel 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, fuel 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 groundwater was observed at depths ranging from 4 and 6 feet bgs subsequent to well installation.

December 1999 - Two off-site 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 bgs. Static groundwater was observed at a depth of approximately 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 advanced to evaluate whether underground utilities in the vicinity of the site are providing preferential pathways for groundwater flow and the migration of dissolved phase hydrocarbons. The results of the investigation indicated insufficient evidence that underground utility lines were providing preferential pathways for the off-site migration of dissolved phase hydrocarbons.

December 2001 - Twelve direct-push soil borings (GP-6 through GP-17) were advanced 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 reported in the previous investigations was limited.

December 2002 - One on-site monitoring well (MW-2) was destroyed during remedial excavation of hydrocarbon-impacted soil. Prior to destruction, monitoring well MW-2 was located near the former eastern dispenser island. During the remedial excavation, monitoring well MW-2 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 (ACHCSA), 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. Closure was not granted.

June 2004 – A work plan was submitted for the installation of two additional monitor wells down-gradient 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. (ATC) for the installation of two off-site monitor wells.

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

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

On January 24, 2007 Delta submitted a work plan to the ACHCSA recommending the advancement of one soil boring and the installation of three ozone injection wells at the site.

## **SENSITIVE RECEPTORS**

June/July 2002 - A groundwater receptor survey was conducted. Three irrigation wells were 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, cross-gradient and up-gradient of the site.

November 2006 – A survey entailing a visit to the DWR office in Sacramento was conducted to examine well log records and to identify domestic wells within the survey area. The DWR survey provided 15 potential receptors within one mile of the site; one domestic well located 0.5 mile southwest of the site; one domestic/irrigation well located 0.7 mile southeast of the site; 11 irrigation wells with three located 0.1 mile northwest, west, and southeast of the site; and two industrial wells located 0.3 miles southwest and 0.9 mile northeast of the site.

The 2006 sensitive receptor survey data are presented as Attachment A.

## **GROUNDWATER MONITORING AND SAMPLING**

Quarterly groundwater monitoring and sampling was initiated in March 1999. During the most recent groundwater monitoring and sampling event conducted on February 8, 2008, depth to groundwater ranged from 5.06 feet (MW-5) to 6.09 feet (MW-1) below top of casing (TOC). The groundwater flow direction was interpreted to be to the northeast with a gradient of 0.05 foot per foot (ft/ft) as compared to the previous quarterly sampling event when the groundwater flow direction was interpreted to be to the northwest with a gradient of 0.02 ft/ft. Historic groundwater flow directions are shown on a rose diagram presented as Attachment B.

**Chemicals of Concern:**

- **TPPH:** Total purgeable petroleum hydrocarbons (TPPH) were reported above the laboratory's indicated reporting limits in monitoring wells MW-1 and MW-6 at 2,600 micrograms per liter ( $\mu\text{g}/\text{L}$ ) and 360  $\mu\text{g}/\text{L}$ , respectively during the first quarter 2008 sampling event. However, the laboratory notes in the analytical report indicate that the TPPH in monitoring wells MW-1 and MW-6 does not exhibit a "gasoline" pattern and that the TPPH is entirely due to MTBE.
- **Benzene:** Benzene was below the laboratory's indicated reporting limits in each of the groundwater samples collected during the first quarter 2008 sampling event.
- **MTBE:** MTBE was above the laboratory's indicated reporting limits in monitoring wells MW-1 and MW-6 at 4,100  $\mu\text{g}/\text{L}$  and 570  $\mu\text{g}/\text{L}$ , respectively during the first quarter 2008 sampling event.

Ethanol was reported in the groundwater sample collected from monitoring well MW-4 at 290  $\mu\text{g}/\text{L}$ . With the exception of the constituents listed above, all other constituents tested were below the laboratory's indicated reporting limits during the first quarter 2008 sampling event.

**DISCUSSION**

As discussed above, ethanol was reported in the groundwater samples collected from monitoring well MW-4 at 290  $\mu\text{g}/\text{L}$  during the current event. However, BC Laboratories indicated in the letter presented as Attachment C that they had received samples bottles from their bottle supplier that were contaminated with ethanol at a level of 200  $\mu\text{g}/\text{L}$  to 500  $\mu\text{g}/\text{L}$ . This indicates that the ethanol in the samples collected during the current event likely came from the sample bottles and not from the groundwater beneath the site. However, Delta will monitor this situation to determine if ethanol is present in groundwater samples collected from the site monitoring wells during subsequent groundwater monitoring and sampling events.

**REMEDIATION STATUS**

Approximately 338 tons of hydrocarbon impacted soil and backfill were removed from beneath the former USTs, fuel dispensers, and product lines during the June 1998 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 recent (February 8, 2008) and historic groundwater analytical data, MTBE and other dissolved gasoline constituents appear to be adequately defined pending further directives from the lead regulatory agency.

Analytical data from groundwater samples collected from the Shell service station located approximately 75 feet south (up-gradient) of the site indicate that TPHg and

MTBE are present in the groundwater and it appears that MW-1 is showing petroleum hydrocarbon impact from the off-site migration of these constituents onto the site.

### **RECENT CORRESPONDENCE**

No recent correspondence was documented during this reporting period.

### **WASTE DISPOSAL SUMMARY**

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

### **THIS QUARTER ACTIVITIES (First Quarter 2008)**

1. TRC conducted the quarterly monitoring and sampling activities at the site.
2. As stated above, on January 24, 2007, Delta submitted a workplan for the advancement of one soil boring and the installation of three ozone injection wells at the site. To date, no comments have been received on this document. Remediation measures are pending the receipt and review of ACHCSA comments to the proposed work plan.

### **NEXT QUARTER ACTIVITIES (Second Quarter 2008)**

1. TRC will conduct quarterly groundwater monitoring and sampling activities at the site.
2. Delta will schedule the soil boring and installation of the three ozone injection wells upon approval of the January 24, 2007 work plan.

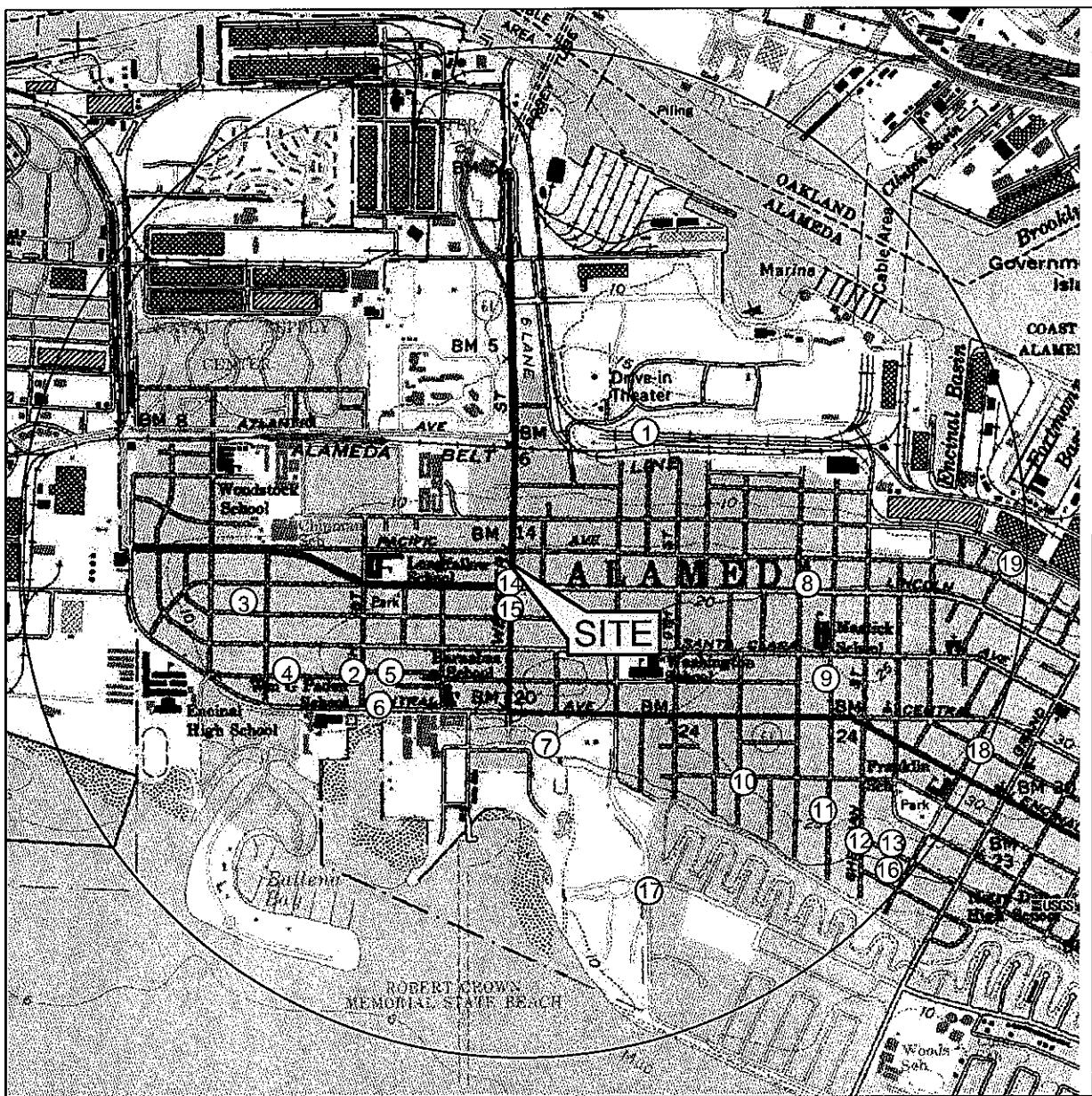
### **CONSULTANT:** Delta Consultants

Attachment A – Sensitive Receptor Survey Data

Attachment B – Historic Groundwater Flow Directions

Attachment C – BC Laboratories Letter

**Attachment A**  
**Sensitive Receptor Survey Data**



0 1000 FT 2000 FT

SCALE: 1 : 24,000

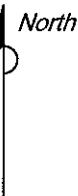


FIGURE 1

SITE LOCATOR SENSITIVE RECEPTOR  
MAP  
76 STATION NO. 0843  
1629 WEBSTER STREET  
ALAMEDA, CALIFORNIA

PROJECT NO.  
C100-843

DRAWN BY  
JH 12/12/06

FILE NO.  
Site Locator 0843

PREPARED BY  
JH

REVISION NO.

REVIEWED BY



**Table 1**  
 One-Mile Agency Receptor Survey  
 ConocoPhillips Station No.0843  
 1629 Webster Street, Alameda, California

DWR <sup>1</sup> Well No.	Address	City	State	Zip	Owner	Well Type	Distance from Site (miles)	Direction Relative to Site
1- 2S/4W-2R1	Marina Village, off Sherman St.	Alameda	CA		Vintage Properties	Irrigation	0.7	NE
2- 2S/4W-10H2	424 Santa Clara Ave.	Alameda	CA	94501	Richard F. Fawcett	Domestic	0.5	SW
3- 2S/4W-10B1	132 Haight Ave.	Alameda	CA	94501	Idella E. McManus	Irrigation	0.7	W
4- 2S/4W-10G1	314 Santa Clara Ave.	Alameda	CA	94501	James GoLightly	Irrigation	0.6	SW
5- 2S/4W-10H3	462 Santa Clara Ave.	Alameda	CA		PG&E	Cathodic protection	0.4	SW
6- 2S/4W-10H1	447 Taylor Avenue	Alameda	CA	94501	A.E. Bryant	Irrigation	0.5	SW
7- 2S/4W-11M1	645 Central	Alameda	CA		Paul Merrett	Industrial	0.3	SW
8- 2S/4W-11A1	Pacific Ave. east of Chapin	Alameda	CA		PG&E	Cathodic protection	0.5	E
9- 2S/4W-11H1	Santa Clara east of Verdi St.	Alameda	CA		PG&E	Cathodic protection	0.6	SE
10- 2S/4W-11K2?	920 Centennial Ave.	Alameda	CA		Lawrence Picetti	Irrigation	0.5	SE
11- 2S/4W-11J2	1036 San Antonio Ave.	Alameda	CA	94501	Grover A. Chessmore	Domestic/Irrigation	0.7	SE
12- 2S/4W-11J3	1236 St. Charles	Alameda	CA	94501	Frank Weeden	Irrigation	0.8	SE
13- 2S/4W-11J4	1224 Bay St.	Alameda	CA	94501	Richard Bartalini	Irrigation	0.8	SE
14- 2S/4W-11D1	603 Pacific Ave.	Alameda	CA	94501	H.W. Moore	Irrigation	0.1	NW
15- 2S/4W-11E1	1614 6th St.	Alameda	CA	94501	Daniel C. Robinson	Irrigation	0.1	W
16- 2S/4W-11J1	1205 Bay St.	Alameda	CA	94501	W.E. Lyons	Irrigation	0.9	SE
17- 2S/4W-11Q1	900 Otis Drive	Alameda	CA		Chevron USA, Inc.	Dewatering	0.7	SE
18- 2S/4W-12M1	1401 F. Cottage St.	Alameda	CA	94501	Central West Homeowners	Irrigation	1.0	SE
19- 2S/4W-12D2	1521 Buena Vista	Alameda	CA	94501	Alameda Liquid Bulk Terminal	Industrial	0.9	NE
<sup>2</sup> 20- 2S/4W-3E1	Alameda Naval Air Station west side of Main Street	Alameda	CA		U.S. Navy			
<sup>2</sup> 21- 2S/4W-5A1	Naval Air Station (old PAA)	Alameda	CA					
<sup>2</sup> 22- 2S/4W-3E3	B Avenue, Building 17	Alameda	CA	94501	U.S. Naval Air Station	Cathodic protection		
<sup>2</sup> 23- 2S/4W-1D1	Embarcadero rail crossing (25' from rr, 300 yds from Emb.)	Oakland	CA		Union Pacific Railroad	Cathodic protection		

DWR: Department of Water Resources

<sup>1</sup> Well Locations shown on Figure 1.

<sup>2</sup> Specific address cannot be located on map.

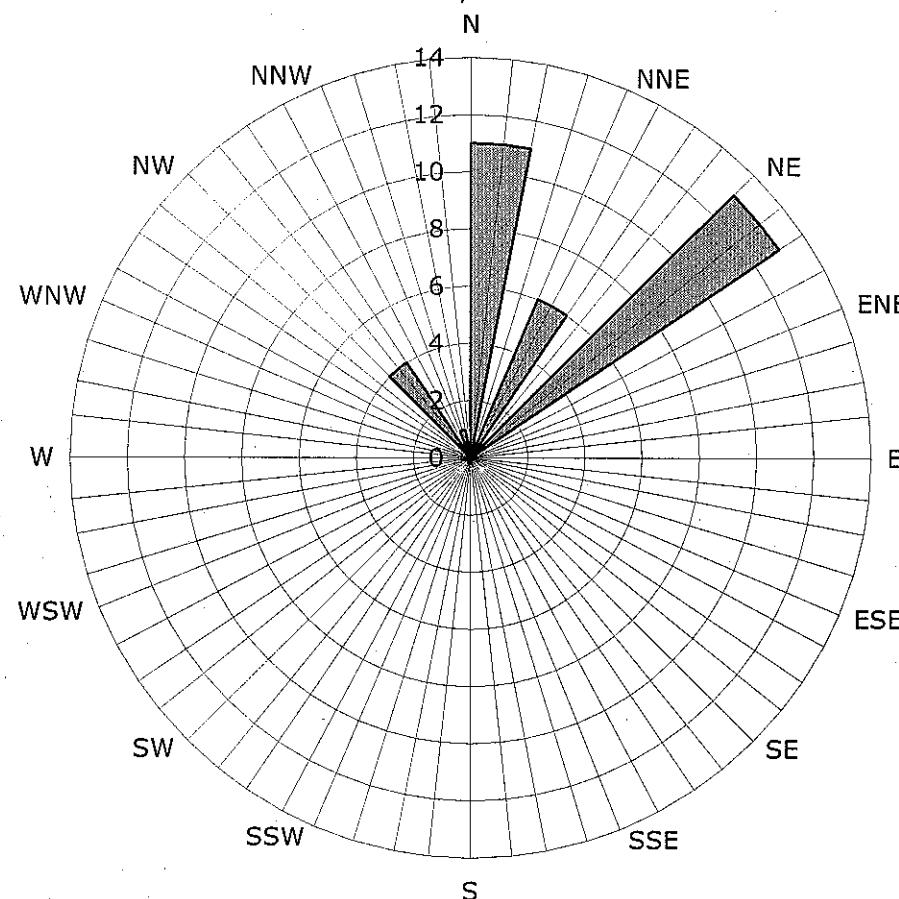
**Attachment B**  
**Historic Groundwater Flow Directions**

### **Historic Groundwater Flow Directions**

**ConocoPhillips Site No. 0843**

1629 Webster Street

Alameda, California



**Legend**  
Concentric circles  
represent  
quarterly monitoring  
events  
First Quarter 1999  
through  
First Quarter 2008  
35 data points shown

■ Groundwater Flow Direction

**Attachment C**  
**BC Laboratories Letter**

March 14, 2008

Delta  
11050 White Rock Rd., Ste. 110  
Rancho Cordova, CA 95670  
Attn: Dennis Dettloff

This letter is being written to explain a problem that has arisen regarding our preserved VOA's. During the most recent quarter starting in Jan 08 and going through Mar 08 we have found that our preserved VOA's were contaminated with low level ethanol in the range of 200ug/L to 500 ug/L. This contamination was present from the manufacturer. We have been purchasing from this vendor for over a year and have had no problems up to this point. However this was found even though we purchase EPA level II pre-cleaned VOA's. We have since fired this vendor and moved to another and also moved up to the most stringent EPA level III pre-cleaned preserved VOA's that are certified clean with a certificate of analysis. We also in house do an analysis of all VOA batches to ascertain their cleanliness however the found contamination was sporadic and was not caught by our in house measures.

I am sincerely sorry for this and want to do anything in my power to make this right. We will support you in any way necessary to make this problem minimal. We can re-issue reports, with flags, if necessary or I can write another letter that explains the problem that you could include with your report to the regulators so that you may explain the erroneous ethanol hits. We at BC Laboratories Inc. pride ourselves in our quality control and feel that we have let you down and want to make things right to the best of our ability. So in that vein, please contact me or Molly and we will do anything that you feel is necessary to minimize the outfall from this situation. Please feel free to contact us at any time:

Stuart Butram  
661-327-4911 ext. 240  
661-201-5863 cell  
[stuart@bclabs.com](mailto:stuart@bclabs.com)

Molly Meyers  
661-852-4250 direct  
[mmeyers@bclabs.com](mailto:mmeyers@bclabs.com)



Thank you

Stuart G. Butram  
Laboratory Director



21 Technology Drive  
Irvine, CA 92618

949.727.9336 PHONE  
949.727.7399 FAX

[www.TRCsolutions.com](http://www.TRCsolutions.com)

DATE: April 3, 2008

TO: ConocoPhillips Company  
76 Broadway  
Sacramento, CA 95818

ATTN: MR. BILL BORGH

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

RE: QUARTERLY MONITORING REPORT  
JANUARY THROUGH MARCH 2008

Dear Mr. Borgh:

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) 727-9336.

Sincerely,

TRC

Anju Farfan  
Groundwater Program Operations Manager

CC: Mr. Dennis Dettloff, Delta Consultants (2 copies)

Enclosures  
20-0400/0843R19.QMS

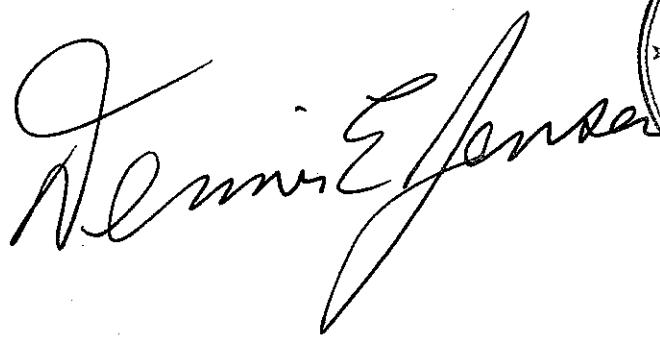
**QUARTERLY MONITORING REPORT  
JANUARY THROUGH MARCH 2008**

**FORMER 76 STATION 0843  
1629 Webster Street  
Alameda, California**

**Prepared For:**

**Mr. Bill Borgh  
ConocoPhillips Company  
76 Broadway  
Sacramento, California 95818**

**By:**



**Senior Project Geologist, Irvine Operations**

**Date: 7/3/08**



## LIST OF ATTACHMENTS

Summary Sheet	Summary of Gauging and Sampling Activities
Tables	<p>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</p>
Coordinated Event Data	<p><i>Shell Service Station</i>          Well Concentrations</p>
Figures	<p>Figure 1: Vicinity Map          Figure 2: Groundwater Elevation Contour Map          Figure 3: Dissolved-Phase TPH-G (GC/MS) Concentration Map          Figure 4: Dissolved-Phase Benzene Concentration Map          Figure 5: Dissolved-Phase MTBE Concentration Map          Figure 6: Dissolved-Phase TBA Concentration Map</p>
Graphs	<p>Groundwater Elevations vs. Time          Benzene Concentrations vs. Time</p>
Field Activities	<p>General Field Procedures          Field Monitoring Data Sheet - 02/08/08          Groundwater Sampling Field Notes – 02/08/08</p>
Laboratory Reports	<p>Official Laboratory Reports          Quality Control Reports          Chain of Custody Records</p>
Statements	<p>Purge Water Disposal          Limitations</p>

## **Summary of Gauging and Sampling Activities**

**January 2008 through March 2008**

**Former 76 Station 0843**

**1629 Webster Street**

**Alameda, CA**

**Project Coordinator: Bill Borgh  
Telephone: 916-558-7612**

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

**Date(s) of Gauging/Sampling Event: 02/08/08**

### **Sample Points**

**Groundwater wells: 4 onsite, 2 offsite      Wells gauged: 6      Wells sampled: 6**

**Purging method: Bailer/diaphragm pump**

**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: 5.06 feet      Maximum: 6.09 feet**

**Average groundwater elevation (relative to available local datum): 9.47 feet**

**Average change in groundwater elevation since previous event: 1.26 feet**

**Interpreted groundwater gradient and flow direction:**

**Current event: 0.05 ft/ft, northeast**

**Previous event: 0.02 ft/ft, northwest (11/09/07)**

### **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 TPH-G by GC/MS 2      Maximum: 2,600 µg/l (MW-1)**

**Wells with MTBE 8260B 2      Maximum: 4,100 µg/l (MW-1)**

### **Notes:**

# **TABLES**

## TABLE KEY

### STANDARD ABBREVIATIONS

--	= not analyzed, measured, or collected
LPH	= liquid-phase hydrocarbons
Trace	= less than 0.01 foot of LPH in well
$\mu\text{g/l}$	= micrograms per liter (approx. equivalent to parts per billion, ppb)
$\text{mg/l}$	= 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-G (GC/MS)	= total petroleum hydrocarbons with gasoline distinction utilizing EPA Method 8260B
TPH-D	= total petroleum hydrocarbons with diesel distinction
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 1 and 2

### 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)	TPH-G (GC/MS)	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
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Table 1a	Well/ Date	TBA	Ethanol (8260B)	DIPE	ETBE	TAME
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#### Historic Data

Table 2	Well/ Date	Depth to Water	LPH Thickness	Ground- water Elevation	Change in Elevation	TPH-G (8015M)	TPH-G (GC/MS)	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
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Table 2a	Well/ Date	TBA	Ethanol (8260B)	Ethylene- dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME
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**Table 1**  
**CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**February 8, 2008**  
**Former 76 Station 0843**

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPH-G (8015M)	TPH-G (GC/MS)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
	(feet)	(feet)	(feet)	(feet)	(feet)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
<b>MW-1</b>	<b>(Screen Interval in feet: 4.5-20.5)</b>													
02/08/08	16.18	6.09	0.00	10.09	1.31	--	2600	ND<5.0	ND<5.0	ND<5.0	ND<10	--	4100	
<b>MW-2A</b>	<b>(Screen Interval in feet: 5-11.5)</b>													
02/08/08	15.56	5.76	0.00	9.80	1.20	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
<b>MW-3</b>	<b>(Screen Interval in feet: 5.0-20.0)</b>													
02/08/08	15.11	5.39	0.00	9.72	1.36	--	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>													
02/08/08	15.17	5.10	0.00	10.07	1.67	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
<b>MW-5</b>	<b>(Screen Interval in feet: 5-20)</b>													
02/08/08	13.34	5.06	0.00	8.28	1.04	--	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>													
02/08/08	14.08	5.20	0.00	8.88	0.97	--	360	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	570	

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

Date Sampled	TBA ( $\mu\text{g/l}$ )	Ethanol (8260B) ( $\mu\text{g/l}$ )	DIPE ( $\mu\text{g/l}$ )	ETBE ( $\mu\text{g/l}$ )	TAME ( $\mu\text{g/l}$ )
<b>MW-1</b>					
02/08/08	ND<100	ND<2500	ND<5.0	ND<5.0	ND<5.0
<b>MW-2A</b>					
02/08/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50
<b>MW-3</b>					
02/08/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50
<b>MW-4</b>					
02/08/08	ND<10	290	ND<0.50	ND<0.50	ND<0.50
<b>MW-5</b>					
02/08/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50
<b>MW-6</b>					
02/08/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**March 1999 Through February 2008**  
**Former 76 Station 0843**

Date Sampled	TOC Elevation	Depth to Water (feet)	LPH Thickness	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) ( $\mu\text{g/l}$ )	TPH-G (GC/MS) ( $\mu\text{g/l}$ )	Benzene ( $\mu\text{g/l}$ )	Toluene ( $\mu\text{g/l}$ )	Ethyl-benzene ( $\mu\text{g/l}$ )	Total Xylenes ( $\mu\text{g/l}$ )	MTBE (8021B) ( $\mu\text{g/l}$ )	MTBE (8260B) ( $\mu\text{g/l}$ )	Comments
<b>MW-1 (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	--	
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

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**March 1999 Through February 2008**  
**Former 76 Station 0843**

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPH-G (8015M)	TPH-G (GC/MS)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
	(feet)	(feet)	(feet)	(feet)	(feet)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
<b>MW-1 continued</b>														
12/11/04	16.18	6.49	0.00	9.69	1.09	--	--	--	--	--	--	--	--	Sampled Annually
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	--	27	
05/17/05	16.18	5.83	0.00	10.35	-0.55	--	--	--	--	--	--	--	--	Sampled annually
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	--	5100	
05/30/06	16.18	6.48	0.00	9.70	0.12	--	--	--	--	--	--	--	--	Sampled Q1 only
08/30/06	16.18	9.51	0.00	6.67	-3.03	--	--	--	--	--	--	--	--	Sampled Q1 only
11/22/06	16.18	7.05	0.00	9.13	2.46	--	220	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	420	
02/23/07	16.18	6.40	0.00	9.78	0.65	--	1300	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	1700	
05/18/07	16.18	6.65	0.00	9.53	-0.25	--	2300	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	3300	
08/10/07	16.18	7.26	0.00	8.92	-0.61	--	4100	ND<25	ND<25	ND<25	ND<25	--	4300	
11/09/07	16.18	7.40	0.00	8.78	-0.14	--	5700	ND<25	ND<25	ND<25	ND<25	--	5400	
02/08/08	16.18	6.09	0.00	10.09	1.31	--	2600	ND<5.0	ND<5.0	ND<5.0	ND<10	--	4100	
<b>MW-2</b> <b>(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	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**March 1999 Through February 2008**  
**Former 76 Station 0843**

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPH-G (8015M)	TPH-G (GC/MS)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
	(feet)	(feet)	(feet)	(feet)	(feet)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
<b>MW-2 continued</b>														
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
<b>MW-2a (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	
05/30/06	15.56	5.62	0.00	9.94	0.17	--	69	0.90	2.2	3.7	14	--	4.1	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**March 1999 Through February 2008**  
**Former 76 Station 0843**

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPH-G (8015M)	TPH-G (GC/MS)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
	(feet)	(feet)	(feet)	(feet)	(feet)	( $\mu\text{g/l}$ )								
<b>MW-2A continued</b>														
08/30/06	15.56	6.38	0.00	9.18	-0.76	--	77	ND<0.50	0.50	1.0	3.3	--	2.5	
11/22/06	15.56	6.60	0.00	8.96	-0.22	--	ND<50	ND<0.50	ND<0.50	ND<0.50	2.2	--	0.59	
02/23/07	15.56	6.05	0.00	9.51	0.55	--	ND<50	ND<0.50	0.66	ND<0.50	1.1	--	0.72	
05/18/07	15.56	6.29	0.00	9.27	-0.24	--	ND<50	ND<0.50	ND<0.50	0.68	1.6	--	0.81	
08/10/07	15.56	6.90	0.00	8.66	-0.61	--	ND<50	ND<0.50	ND<0.50	1.6	3.9	--	ND<0.50	
11/09/07	15.56	6.96	0.00	8.60	-0.06	--	ND<50	ND<0.50	ND<0.50	2.4	4.4	--	ND<0.50	
02/08/08	15.56	5.76	0.00	9.80	1.20	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
<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	ND	
03/17/01	15.11	5.09	0.00	10.02	1.67	ND	--	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	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	-1.70	--	--	--	--	--	--	--	--	
03/13/03	15.11	5.37	0.00	9.74	1.78	--	--	--	--	--	--	--	--	No longer sampled

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**March 1999 Through February 2008**  
**Former 76 Station 0843**

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPH-G (8015M)	TPH-G (GC/MS)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
	(feet)	(feet)	(feet)	(feet)	(feet)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
<b>MW-3 continued</b>														
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
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
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	--	ND<0.50	
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	--	2.2	
05/30/06	15.11	5.08	0.00	10.03	0.29	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.92	
08/30/06	15.11	5.52	0.00	9.59	-0.44	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	0.51	
11/22/06	15.11	6.38	0.00	8.73	-0.86	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	0.94	
02/23/07	15.11	5.72	0.00	9.39	0.66	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	0.61	
05/18/07	15.11	5.94	0.00	9.17	-0.22	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	1.1	
08/10/07	15.11	7.64	0.00	7.47	-1.70	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
11/09/07	15.11	6.75	0.00	8.36	0.89	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	1.1	
02/08/08	15.11	5.39	0.00	9.72	1.36	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
<b>MW-4 (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 2008**  
**Former 76 Station 0843**

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPH-G (8015M)	TPH-G (GC/MS)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
	(feet)	(feet)	(feet)	(feet)	(feet)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
<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<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	--	
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	
03/11/05	15.17	4.61	0.00	10.56	1.40	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
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 2008**  
**Former 76 Station 0843**

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPH-G (8015M)	TPH-G (GC/MS)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
	(feet)	(feet)	(feet)	(feet)	(feet)	( $\mu\text{g/l}$ )								
<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	
05/30/06	15.17	5.07	0.00	10.10	0.12	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
08/30/06	15.17	6.02	0.00	9.15	-0.95	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
11/22/06	15.17	6.37	0.00	8.80	-0.35	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	16	
02/23/07	15.17	5.61	0.00	9.56	0.76	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
05/18/07	15.17	5.87	0.00	9.30	-0.26	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
08/10/07	15.17	7.49	0.00	7.68	-1.62	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
11/09/07	15.17	6.77	0.00	8.40	0.72	--	50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	39	
02/08/08	15.17	5.10	0.00	10.07	1.67	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
<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	--	--	--	--	--	--	--	--	--	--	--	--	
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	--	Inaccessible - paved over

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**March 1999 Through February 2008**  
**Former 76 Station 0843**

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPH-G (8015M)	TPH-G (GC/MS)	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
	(feet)	(feet)	(feet)	(feet)	(feet)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
<b>MW-5 continued</b>														
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<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
09/17/04	13.34	6.10	0.00	7.24	-0.75	--	--	--	--	--	ND<0.6	ND<1	--	
12/11/04	13.34	5.53	0.00	7.81	0.57	--	--	--	--	--	--	--	--	Sampled Annually
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	Sampled Annually
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	
05/30/06	13.34	5.01	0.00	8.33	0.07	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
08/30/06	13.34	5.65	0.00	7.69	-0.64	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
11/22/06	13.34	5.82	0.00	7.52	-0.17	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
02/23/07	13.34	4.47	0.00	8.87	1.35	--	ND<50	ND<0.50	ND<0.50	ND<0.50	0.53	--	ND<0.50	
05/18/07	13.34	5.51	0.00	7.83	-1.04	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
08/10/07	13.34	6.05	0.00	7.29	-0.54	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
11/09/07	13.34	6.10	0.00	7.24	-0.05	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
02/08/08	13.34	5.06	0.00	8.28	1.04	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
<b>MW-6</b>														
(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	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**March 1999 Through February 2008**  
**Former 76 Station 0843**

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPH-G (8015M)	TPH-G (GC/MS)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
	(feet)	(feet)	(feet)	(feet)	(feet)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
<b>MW-6 continued</b>														
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	--	
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	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**March 1999 Through February 2008**  
**Former 76 Station 0843**

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPH-G (8015M)	TPH-G (GC/MS)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
		(feet)	(feet)	(feet)	(feet)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
<b>MW-6 continued</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	
05/30/06	14.08	5.04	0.00	9.04	0.08	--	ND<1200	ND<12	ND<12	ND<12	ND<25	--	560	
08/30/06	14.08	7.01	0.00	7.07	-1.97	--	930	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	820	
11/22/06	14.08	6.16	0.00	7.92	0.85	--	690	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	620	
02/23/07	14.08	5.44	0.00	8.64	0.72	--	190	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	410	
05/18/07	14.08	5.63	0.00	8.45	-0.19	--	390	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	620	
08/10/07	14.08	6.71	0.00	7.37	-1.08	--	390	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	660	
11/09/07	14.08	6.17	0.00	7.91	0.54	--	580	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	820	
02/08/08	14.08	5.20	0.00	8.88	0.97	--	360	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	570	

**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
	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )
<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
11/22/06	74	ND<250	--	--	ND<0.50	ND<0.50	0.51
02/23/07	ND<100	ND<2500	--	--	ND<5.0	ND<5.0	ND<5.0
05/18/07	ND<100	ND<2500	--	--	ND<5.0	ND<5.0	ND<5.0
08/10/07	ND<500	ND<12000	--	--	ND<25	ND<25	ND<25
11/09/07	ND<500	ND<12000	--	--	ND<25	ND<25	ND<25
02/08/08	ND<100	ND<2500	--	--	ND<5.0	ND<5.0	ND<5.0
<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<500000	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<500000	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

**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
	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )
<b>MW-2a continued</b>							
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
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
05/30/06	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50
08/30/06	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50
11/22/06	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50
02/23/07	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50
05/18/07	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50
08/10/07	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50
11/09/07	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50
02/08/08	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

**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
	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )
<b>MW-3 continued</b>							
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
05/30/06	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50
08/30/06	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50
11/22/06	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50
02/23/07	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50
05/18/07	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50
08/10/07	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50
11/09/07	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50
02/08/08	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
05/30/06	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50
08/30/06	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50
11/22/06	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50
02/23/07	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
	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )
<b>MW-4 continued</b>							
05/18/07	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50
08/10/07	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50
11/09/07	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50
02/08/08	ND<10	290	--	--	ND<0.50	ND<0.50	ND<0.50
<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
05/30/06	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50
08/30/06	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50
11/22/06	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50
02/23/07	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50
05/18/07	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50
08/10/07	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50
11/09/07	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50
02/08/08	ND<10	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

**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
	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )
<b>MW-6 continued</b>							
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
05/30/06	ND<250	ND<6200	--	--	ND<12	ND<12	ND<12
08/30/06	ND<100	ND<2500	--	--	ND<5.0	ND<5.0	ND<5.0
11/22/06	ND<100	ND<2500	--	--	ND<5.0	ND<5.0	ND<5.0
02/23/07	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50
05/18/07	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50
08/10/07	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50
11/09/07	ND<10	ND<250	--	--	ND<0.50	ND<0.50	0.52
02/08/08	ND<10	ND<250	--	--	ND<0.50	ND<0.50	ND<0.50

# **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	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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
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S-2	11/14/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.73	7.60	NA	12.13	NA
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	NA	12.03	NA
S-2	02/24/2006	<50 b	<0.50	<0.50	<0.50	<0.50	2.0	<0.50	<0.50	<0.50	<5.0	NA	NA	NA	19.73	6.29	NA	13.44	NA
S-2	05/30/2006	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<10.0	NA	NA	NA	19.73	6.14	NA	13.59	NA
S-2	08/30/2006	420	<0.500	<0.500	<0.500	<0.500	4.42	<0.500	<0.500	<0.500	<10.0	NA	NA	NA	19.73	7.18	NA	12.55	NA
S-2	11/22/2006	110	<0.50	<0.50	<0.50	<1.0	62	<2.0	<2.0	<2.0	<5.0	NA	NA	NA	19.73	7.55	NA	12.18	NA
S-2	02/23/2007	140	<0.50	<0.50	<0.50	<1.0	110	<2.0	<2.0	<2.0	<5.0	NA	NA	NA	19.73	6.77	NA	12.96	NA
S-2	05/18/2007	<50 h	<0.50	<1.0	<1.0	<1.0	18	<2.0	<2.0	<2.0	<10	NA	NA	NA	19.73	7.02	NA	12.71	NA
S-2	08/10/2007	<50 h	<0.50	<1.0	<1.0	<1.0	40	<2.0	<2.0	<2.0	<10	NA	NA	NA	19.73	7.65	NA	12.08	NA
S-2	11/09/2007	130 h,i	<0.50	<1.0	<1.0	<1.0	190	<2.0	<2.0	<2.0	<10	NA	NA	NA	19.73	7.87	NA	11.86	NA
S-2	02/08/2008	83 h,i	<1.0	<2.0	<2.0	<2.0	180	<4.0	<4.0	<4.0	<20	NA	NA	NA	19.73	6.52	NA	13.21	NA

S-3	11/14/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.14	7.01	NA	12.13	NA
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	NA	11.99	NA
S-3	02/24/2006	580 b	<0.50	<0.50	<0.50	<0.50	360	<0.50	<0.50	<0.50	<5.0	NA	NA	NA	19.14	5.95	NA	13.19	NA
S-3	05/30/2006	<50.0	<0.500	<0.500	<0.500	0.510	52.2	<0.500	<0.500	<0.500	<10.0	NA	NA	NA	19.14	5.85	NA	13.29	NA
S-3	08/30/2006	2,910	<0.500	<0.500	<0.500	<0.500	882	<0.500	<0.500	<0.500	<10.0	NA	NA	NA	19.14	6.71	NA	12.43	NA
S-3	11/22/2006	240	<0.50	<0.50	<0.50	<1.0	150	<2.0	<2.0	<2.0	30	NA	NA	NA	19.14	7.05	NA	12.09	NA
S-3	02/23/2007	78	<0.50	<0.50	<0.50	<1.0	78	<2.0	<2.0	<2.0	5.4	NA	NA	NA	19.14	6.30	NA	12.84	NA
S-3	05/18/2007	120 h,i	<0.50	<1.0	<1.0	<1.0	150	<2.0	<2.0	<2.0	73	NA	NA	NA	19.14	6.58	NA	12.56	NA
S-3	08/10/2007	<50 h	<1.0	<2.0	<2.0	<2.0	200	<4.0	<4.0	<4.0	21	NA	NA	NA	19.14	7.09	NA	12.05	NA
S-3	11/09/2007	69 h,i	<0.50	<1.0	<1.0	<1.0	100	<2.0	<2.0	<2.0	<10	NA	NA	NA	19.14	7.28	NA	11.86	NA
S-3	02/08/2008	<50 h	<0.50	<1.0	<1.0	<1.0	8.5	<2.0	<2.0	<2.0	<10	NA	NA	NA	19.14	6.06	NA	13.08	NA

S-4	11/14/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18.16	6.00	NA	12.16	NA
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	NA	12.06	NA
S-4	02/24/2006	2,200 b	<0.50	<0.50	<0.50	<0.50	1,400	<0.50	<0.50	1.4	13 c	NA	NA	NA	18.16	5.09	NA	13.07	NA
S-4	05/30/2006	1,100	<0.500	<0.500	<0.500	<0.500	1,060	<0.500	<0.500	1.04	87.5	NA	NA	NA	18.16	5.00	NA	13.16	NA
S-4	08/30/2006	3,170	<0.500	<0.500	<0.500	<0.500	1,000	<0.500	<0.500	0.850	120	NA	NA	NA	18.16	5.81	NA	12.35	NA
S-4	11/22/2006	520	<0.50	<0.50	<0.50	<1.0	480	<2.0	<2.0	<2.0	5.2	NA	NA	NA	18.16	5.93	NA	12.23	NA
S-4	02/23/2007	180	<0.50	<0.50	<0.50	<1.0	130	<2.0	<2.0	<2.0	9.6	NA	NA	NA	18.16	5.40	NA	12.76	NA
S-4	05/18/2007	220 h,i	<2.5	<5.0	<5.0	2.5 j	420	<10	<10	<10	<50	NA	NA	NA	18.16	5.62	NA	12.54	NA
S-4	08/10/2007	98 h,i	<2.5	<5.0	<5.0	<5.0	540	<10	<10	<10	29 j	NA	NA	NA	18.16	6.00	NA	12.16	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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
S-4	11/09/2007	190 h,i	<2.5	<5.0	<5.0	<5.0	350	<10	<10	<10	<50	NA	NA	NA	18.16	6.20	NA	11.96	NA
S-4	02/08/2008	<50 h	<0.50	<1.0	<1.0	<1.0	13	<2.0	<2.0	<2.0	<10	NA	NA	NA	18.16	5.47	NA	12.69	NA
S-4B	08/21/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18.78	6.14	NA	12.64	NA
S-4B	08/30/2006	3,630	<0.500	<0.500	5.32	<0.500	1,130	<0.500	<0.500	1.47	643	NA	NA	NA	18.78	6.32	NA	12.46	NA
S-4B	11/22/2006	620	<0.50	<0.50	0.66	<1.0	580	<2.0	<2.0	<2.0	680	NA	NA	NA	18.78	6.46	NA	12.32	NA
S-4B	02/23/2007	230	<1.0	<1.0	<1.0	<2.0	190	<4.0	<4.0	<4.0	450	NA	NA	NA	18.78	6.64	NA	12.14	NA
S-4B	05/18/2007	200 h	<0.50	<1.0	<1.0	<1.0	130	<2.0	<2.0	<2.0	360	NA	NA	NA	18.78	6.19	NA	12.59	NA
S-4B	08/10/2007	150 h	0.47 j	<1.0	<1.0	<1.0	67	<2.0	<2.0	<2.0	230	NA	NA	NA	18.78	6.48	NA	12.30	NA
S-4B	11/09/2007	<50 h	<0.50	<1.0	<1.0	<1.0	32	<2.0	<2.0	<2.0	67	NA	NA	NA	18.78	6.59	NA	12.19	NA
S-4B	02/08/2008	<50 h	<0.50	<1.0	<1.0	<1.0	5.3	<2.0	<2.0	<2.0	<10	NA	NA	NA	18.78	6.12	NA	12.66	NA
S-5	11/14/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18.68	6.33	NA	12.35	NA
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	NA	12.24	NA
S-5	02/24/2006	<50 b	<0.50	<0.50	<0.50	<0.50	19	<0.50	<0.50	<0.50	<5.0	NA	NA	NA	18.68	5.44	NA	13.24	NA
S-5	05/30/2006	2,000	4.13	0.670	<0.500	3.28	143	<0.500	<0.500	<0.500	<10.0	NA	NA	NA	18.68	5.33	NA	13.35	NA
S-5	08/30/2006	1,380	<0.500	<0.500	1.43	<0.500	211	<0.500	<0.500	<0.500	106	NA	NA	NA	18.68	6.16	NA	12.52	NA
S-5	11/22/2006	82	<0.50	<0.50	<0.50	<1.0	28	<2.0	<2.0	<2.0	13	NA	NA	NA	18.68	6.28	NA	12.40	NA
S-5	02/23/2007	<50	<0.50	<0.50	<0.50	<1.0	1.2	<2.0	<2.0	<2.0	<5.0	NA	NA	NA	18.68	5.68	NA	13.00	NA
S-5	05/18/2007	<50 h,i	<0.50	<1.0	<1.0	<1.0	2.6	<2.0	<2.0	<2.0	<10	NA	NA	NA	18.68	5.91	NA	12.77	NA
S-5	08/10/2007	<50 h	<0.50	<1.0	<1.0	<1.0	1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	18.68	6.36	NA	12.32	NA
S-5	11/09/2007	<50 h	<0.50	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<10	NA	NA	NA	18.68	6.47	NA	12.21	NA
S-5	02/08/2008	<50 h	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	18.68	5.52	NA	13.16	NA
S-6	11/14/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.32	6.36	NA	12.96	NA
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	NA	12.79	NA
S-6	01/19/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.32	5.50	NA	13.82	NA
S-6	02/24/2006	7,900 b	4.4	<1.5	260	380	<1.5	<1.5	<1.5	<1.5	<7.0	NA	NA	NA	19.32	5.76	NA	13.56	NA
S-6	05/30/2006	4,170	4.98	<0.500	76.6	44.2	<0.500	<0.500	<0.500	<0.500	<10.0	NA	NA	NA	19.32	5.68	NA	13.64	NA
S-6	08/30/2006	16,400	10.7	<0.500	353	292	<0.500	<0.500	<0.500	<0.500	<10.0	NA	NA	NA	19.32	6.38	NA	12.94	NA
S-6	11/22/2006	6,900	7.7	<2.5	250	450	<2.5	<10	<10	<10	<25	NA	NA	NA	19.32	6.62	NA	12.70	NA
S-6	02/23/2007	7,900	4.4	<2.5	400	940	<2.5	<10	<10	<10	<25	NA	NA	NA	19.32	6.06	NA	13.26	NA
S-6	05/18/2007	2,600 h	3.1	<1.0	85	147.3	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	19.32	6.12	NA	13.20	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	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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
S-6	08/10/2007	3,100 h	3.5	0.28 j	110	202	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	19.32	6.60	NA	12.72	NA
S-6	11/09/2007	3,700 h	2.1	0.34 j	160	335	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	19.32	6.80	NA	12.52	NA
S-6	02/08/2008	2,600 h	2.7	<1.0	72	156.0	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	19.32	6.11	NA	13.21	NA
S-7	11/14/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.44	6.76	NA	12.68	NA
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	NA	12.56	NA
S-7	02/24/2006	22,000 b/25,000 d	1,700	1,200	1,200	2,800	<2.5	<2.5	<2.5	<2.5	58	NA	NA	NA	19.44	5.73	NA	13.71	NA
S-7	05/30/2006	35,600	1,720	641	1,600	3,630	2.83	<0.500	<0.500	<0.500	<10.0	NA	NA	NA	19.44	5.61	NA	13.83	NA
S-7	08/30/2006	83,900	5,060	62.5	1,640	4,010	2.38	<0.500	<0.500	<0.500	43.4	NA	NA	NA	19.44	6.43	NA	13.01	NA
S-7	11/22/2006	13,000	4,300	27	710	1,900	<2.5	<10	<10	<10	54	NA	NA	NA	19.44	6.68	NA	12.76	NA
S-7	02/23/2007	15,000	2,000	43	1,100	3,300	<12	<50	<50	<50	<120	NA	NA	NA	19.44	5.82	NA	13.62	NA
S-7	05/18/2007	6,100 h	3,900	22 j	520	2,010	<50	<100	<100	<100	<500	NA	NA	NA	19.44	6.20	NA	13.24	NA
S-7	08/10/2007	14,000 h	4,900	19 j	670	2,048 j	<50	<100	<100	<100	<500	NA	NA	NA	19.44	6.74	NA	12.70	NA
S-7	11/09/2007	16,000 h	4,400	21 j	550	2,052	<50	<100	<100	<100	<500	NA	NA	NA	19.44	6.93	NA	12.51	NA
S-7	02/08/2008	2,400 h	160	<2.0	70	160	<2.0	<4.0	<4.0	<4.0	<20	NA	NA	NA	19.44	6.23	NA	13.21	NA
S-8	08/21/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20.11	7.02	NA	13.09	NA
S-8	08/30/2006	90,600	5,150	28.2	3,230	4,450	4.30	<0.500	<0.500	<0.500	<10.0	NA	NA	NA	20.11	7.19	NA	12.92	NA
S-8	11/22/2006	41,000	4,900	58	3,300	7,200	2.6	<10	<10	<10	<25	NA	NA	NA	20.11	7.48	NA	12.63	NA
S-8	02/23/2007	28,000	2,900	28	2,900	4,900	<25	<100	<100	<100	<250	NA	NA	NA	20.11	6.73	NA	13.38	NA
S-8	05/18/2007	24,000 h	4,400	33 j	3,800	4,470	<50	<100	<100	<100	<500	NA	NA	NA	20.11	6.98	NA	13.13	NA
S-8	08/10/2007	22,000 h	5,000	30 j	3,100	3,660	<50	<100	<100	<100	<500	NA	NA	NA	20.11	7.57	NA	12.54	NA
S-8	11/09/2007	22,000 h	4,600	24 j	3,000	2,770	<50	<100	<100	<100	<500	NA	NA	NA	20.11	7.80	NA	12.31	NA
S-8	02/08/2008	11,000 h	5,900	<50	410	310	<50	<100	<100	<100	<500	NA	NA	NA	20.11	6.55	NA	13.56	NA
S-9	08/21/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.60	6.93	NA	12.67	NA
S-9	08/30/2006	162,000	3,620	5,040	3,810	22,500	<0.500	<0.500	<0.500	<0.500	<10.0	NA	NA	NA	19.60	6.52	NA	13.08	NA
S-9	11/22/2006	47,000	2,100	840	3,000	12,000	<2.5	<10	<10	<10	<25	NA	NA	NA	19.60	6.78	NA	12.82	NA
S-9	02/23/2007	18,000	890	120	1,800	3,600	<12	<50	<50	<50	<120	NA	NA	NA	19.60	6.13	NA	13.47	NA
S-9	05/18/2007	22,000 h	1,300	630	2,400	7,300	<50	<100	<100	<100	<500	NA	NA	NA	19.60	6.35	NA	13.25	NA
S-9	08/10/2007	36,000 h	2,600	920	4,200	14,900	<50	<100	<100	<100	<500	NA	NA	NA	19.60	6.86	NA	12.74	NA
S-9	11/09/2007	34,000 h	2,100	320	3,700	12,000	<50	<100	<100	<100	<500	NA	NA	NA	19.60	7.09	NA	12.51	NA
S-9	02/08/2008	7,400 h	410	51	1,100	1,620	<10	<20	<20	<20	<100	NA	NA	NA	19.60	6.00	NA	13.60	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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
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TBW-E	11/23/2004	NA	6.31	NA	NA	NA													
TBW-E	12/01/2004	NA	7.01	NA	NA	NA													
TBW-E	12/07/2004	NA	6.32	NA	NA	NA													
TBW-E	12/15/2004	NA	6.55	NA	NA	NA													
TBW-E	12/23/2004	NA	5.95	NA	NA	NA													
TBW-E	12/27/2004	NA	8.47	NA	NA	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	NA	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	NA	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	NA	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	NA	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	NA	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	NA	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	NA	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	NA	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	NA	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	NA	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	NA	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	NA	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	NA	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	NA	12.80	NA
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	NA	12.16	NA
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	NA	12.12	NA
TBW-N	11/22/2005	105,000	41.3	8,750	1,550	18,300	443	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<50.0	18.08	5.82	NA	12.26	NA
TBW-N	12/09/2005	65,900	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	NA	12.48	NA
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	NA	13.64	NA
TBW-N	02/24/2006	56,000 b/60,000 d	15	2,700	1,000	12,000	270	<15	<15	<15	180	<15	<15	<150	18.08	4.67	NA	13.41	NA
TBW-N	03/08/2006	60,200	23.4	3,820	1,370	16,500	293	<0.500	<0.500	<0.500	93.8	<0.500	<0.500	<50.0	18.08	4.18	NA	13.90	NA
TBW-N	04/13/2006	73,000	21.8	2,900	1,220	14,600	277	<0.500	<0.500	<0.500	68.5	<0.500	<0.500	<500	18.08	3.49	NA	14.59	NA
TBW-N	05/30/2006	59,300	18.7	1,170	1,800	10,200	119 e	<0.500	<0.500	<0.500	<10.0	0.860	<0.500	<50.0	18.08	4.52	NA	13.56	NA
TBW-N	06/05/2006	83,700	16.0	1,510	2,090	11,400	146 e	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<50.0	18.08	4.55	NA	13.53	NA
TBW-N	07/19/2006	80,100	16.4	632	1,550	13,900	85.7	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<50.0	18.08	4.99	NA	13.09	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	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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
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TBW-N	08/30/2006	52,700	18.2	747	1,900	13,400	82.9	<5.00	<5.00	<5.00	<100	<5.00	<5.00	<500	18.08	5.47	NA	12.61	NA
TBW-N	09/06/2006	77,500	21.3	1,100	1,650	11,800	116	<0.500	<0.500	<0.500	12.4	<0.500	<0.500	<50.0	18.08	5.39	NA	12.69	NA
TBW-N	10/13/2006	33,000	22	1,300	1,700	27,000	160	<20	<20	<20	<50	<5.0	<5.0	<500	18.08	5.57	NA	12.51	NA
TBW-N	11/22/2006	36,000	18	680	1,200	14,000	110	<20	<20	<20	<50	<5.0	<5.0	<500	18.08	5.65	NA	12.43	NA
TBW-N	12/12/2006	34,000	<25	330	1,400	11,000	89	<25	<25	<25	<1,000	<25	<25	<5,000	18.08	5.34	NA	12.74	NA
TBW-N	01/05/2007	26,000 g	16	450	1,400	13,000 f	96	<20	<20	<20	<50	<5.0	<5.0	<500	18.08	5.23	NA	12.85	NA
TBW-N	02/23/2007	41,000	<25	400	1,500	15,000	120	<100	<100	<100	<250	<25	<25	<2,500	18.08	4.96	NA	13.12	NA
TBW-N	03/08/2007	15,000	<25	320	1,300	15,000	110	<100	<100	<100	<250	<25	<25	<2,500	18.08	4.93	NA	13.15	NA
TBW-N	04/06/2007	24,000 h	15	360	1,100	12,300	130	<10	<10	<10	<50	<2.5	NA	<500	18.08	5.07	NA	13.01	NA
TBW-N	05/18/2007	30,000 h	15 j	140	1,100	9,960	100	<100	<100	<100	<50	<25	<50	<5,000	18.08	5.25	NA	12.83	NA
TBW-N	06/11/2007	26,000 h	15 j	160	1,300	9,150	120	<100	<100	<100	<500	<25	<50	<5,000	18.08	5.33	NA	12.75	NA
TBW-N	07/03/2007	36,000 h	9.3 j	150	990	8,400	130	<100	<100	<100	<500	<25	<50	<5,000	18.08	5.46	NA	12.62	NA
TBW-N	08/10/2007	24,000 h	14	200	1,200	5,240	120	<40	<40	<40	<200	<10	<20	<2,000	18.08	5.78	NA	12.30	NA
TBW-N	09/25/2007	28,000 h	15	560	1,400	7,600	<20	<40	<40	<40	160 j	<10	<20	<2,000	18.08	6.02	NA	12.06	NA
TBW-N	11/09/2007	42,000 h	18	610	1,700	14,500	140	<50	<50	<50	<250	<12	<25	<2,500	18.08	5.91	5.90	12.18	0.01
TBW-N	02/08/2008	36,000 h	<25	450	1,400	15,100	97	<100	<100	<100	<500	<25	<50	<5,000	18.08	4.79	NA	13.29	NA

TBW-S	11/23/2004	NA	6.18	NA	NA	NA													
TBW-S	12/01/2004	NA	6.87	NA	NA	NA													
TBW-S	12/07/2004	NA	6.15	NA	NA	NA													
TBW-S	12/15/2004	NA	6.38	NA	NA	NA													
TBW-S	12/23/2004	NA	5.81	NA	NA	NA													
TBW-S	12/27/2004	NA	8.35	NA	NA	NA													

TBW-W	11/23/2004	NA	6.14	NA	NA	NA													
TBW-W	12/01/2004	NA	6.86	NA	NA	NA													
TBW-W	12/07/2004	NA	6.13	NA	NA	NA													
TBW-W	12/15/2004	NA	6.37	NA	NA	NA													
TBW-W	12/23/2004	NA	5.79	NA	NA	NA													
TBW-W	12/27/2004	NA	8.32	NA	NA	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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
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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

SPH = Separate-phase hydrocarbon

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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
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Notes:

- a = Extracted out of holding time.
- b = Result with a carbon range of C4-C12.
- c = Result may be biased slightly high. See lab report case narrative.
- d = Result with a carbon range of C6-C12.
- e = Secondary ion abundances were outside method requirements. Identification based on analytical judgement.
- f = Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to holding time requirements.
- g = Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was below the acceptance limits. A low bias to sample results is indicated.
- h = Analyzed by EPA Method 8015B (M).
- i = The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.
- j = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.

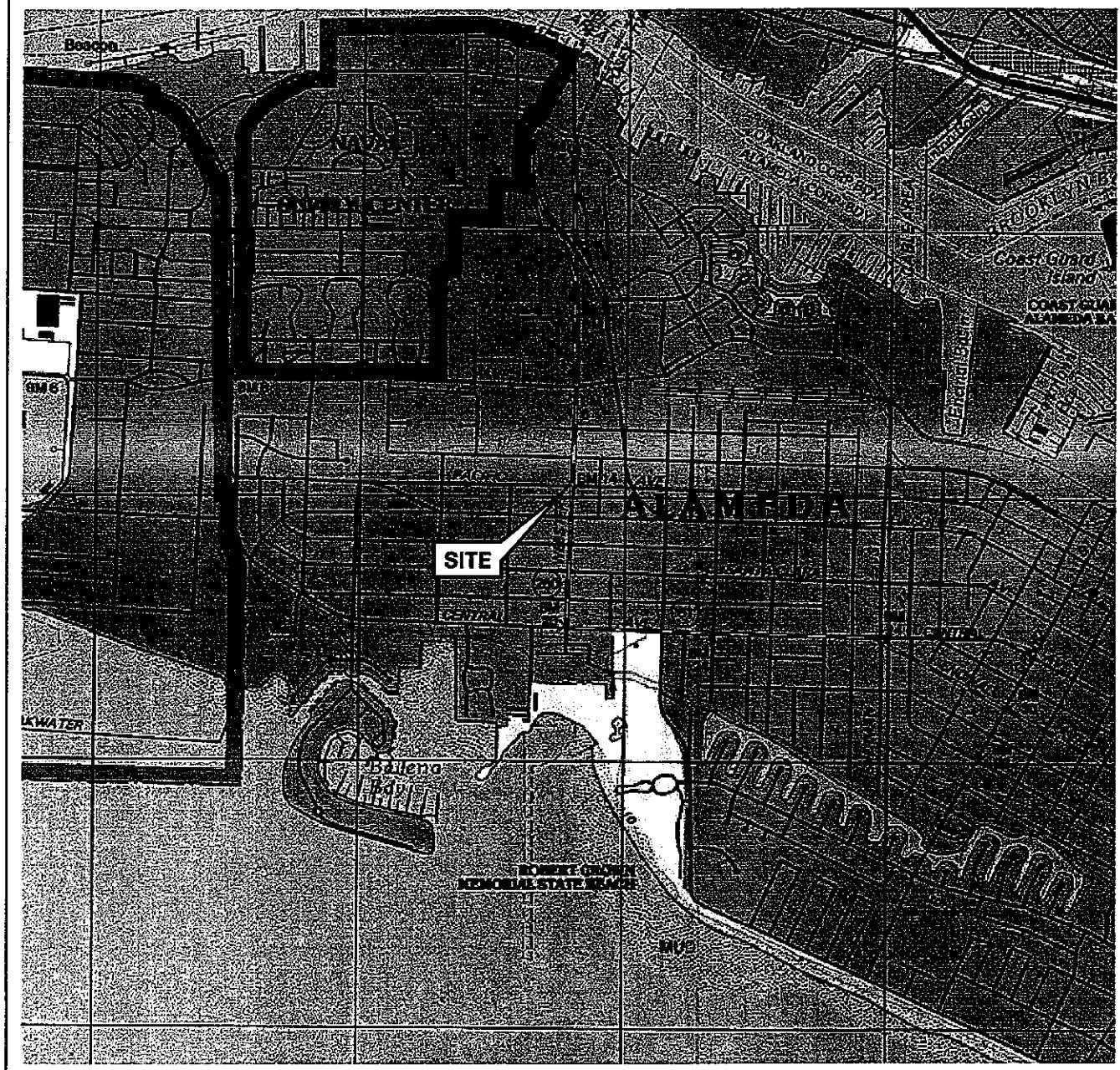
Ethanol analyzed by EPA Method 8260B.

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.

Wells S-4B and S-7 through S-9 surveyed on August 17, 2006 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



PROJECT: 154771

FACILITY:

FORMER 76 STATION 0843  
1629 WEBSTER STREET  
ALAMEDA, CALIFORNIA



VICINITY MAP

FIGURE 1

LEGEND

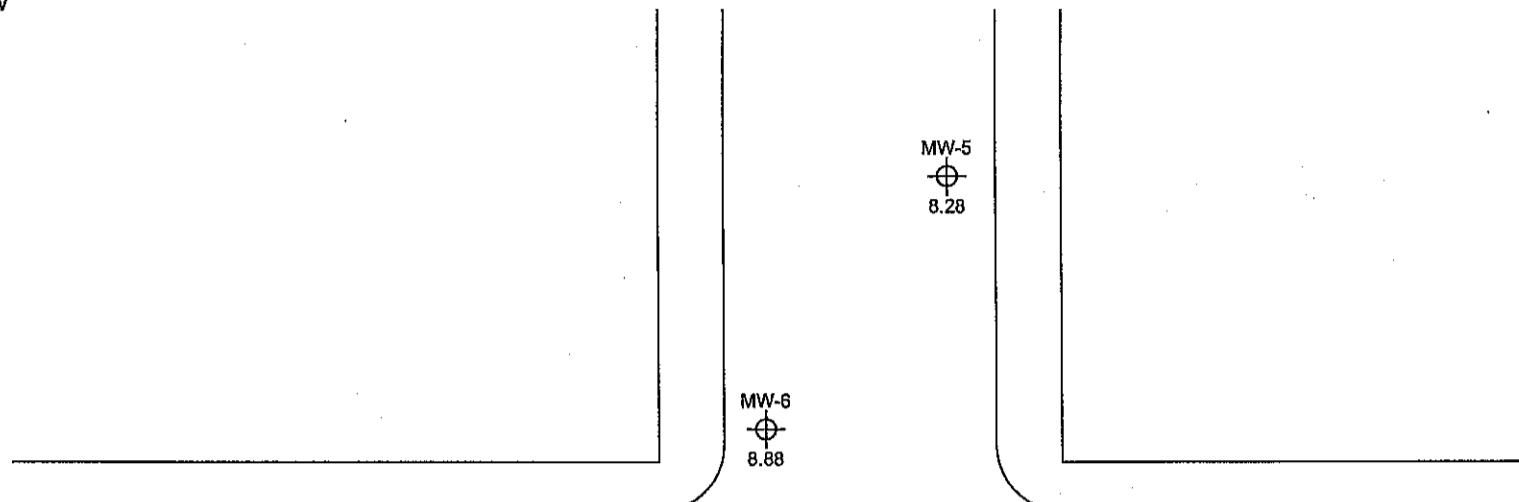
MW-6 Former 76 Monitoring Well with Groundwater Elevation (feet)

S-9 Shell Service Station Monitoring Well

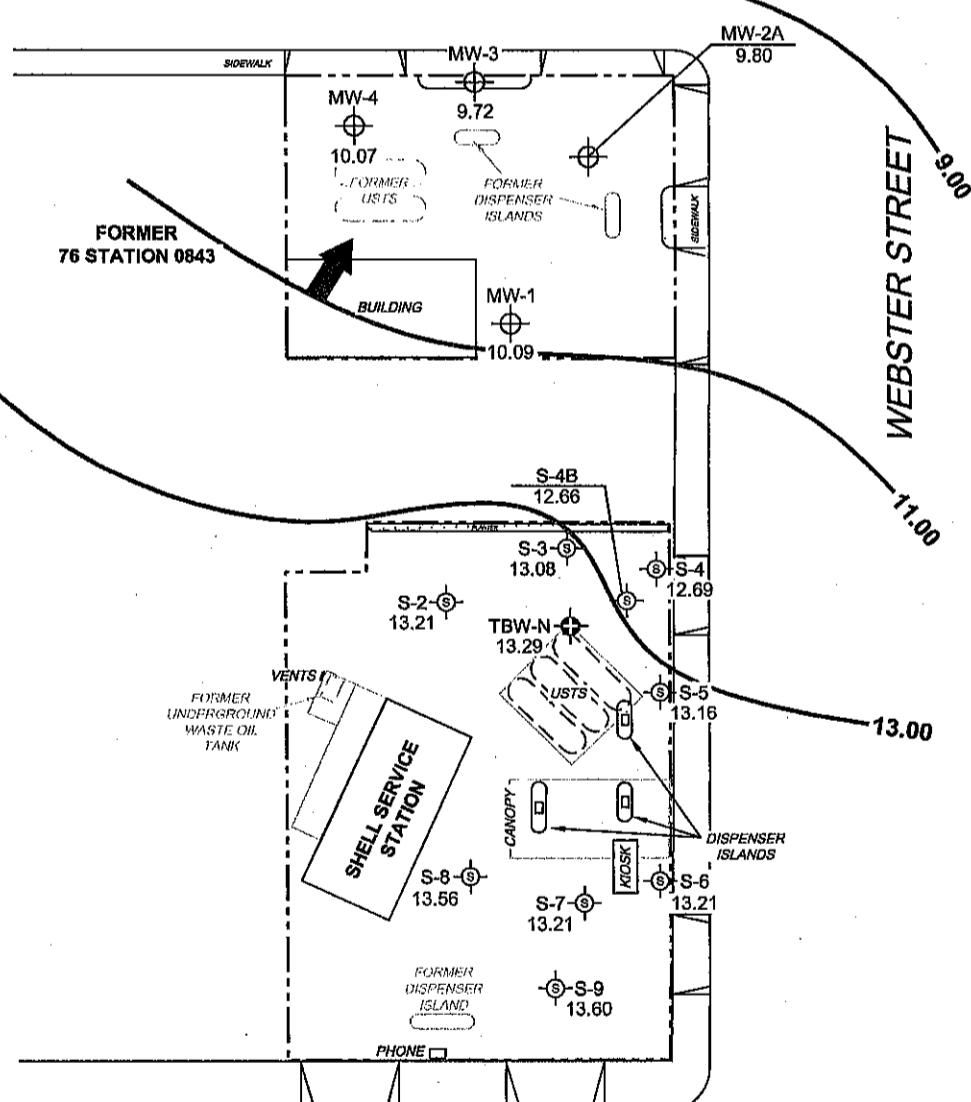
TBW-N Shell Tank Backfill Monitoring Well

13.00—Groundwater Elevation Contour

General Direction of Groundwater Flow



PACIFIC AVENUE

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.

SCALE (FEET)  
0 60

TRC

PROJECT: 154771

FACILITY:

FORMER 76 STATION 0843  
1629 WEBSTER STREET  
ALAMEDA, CALIFORNIA

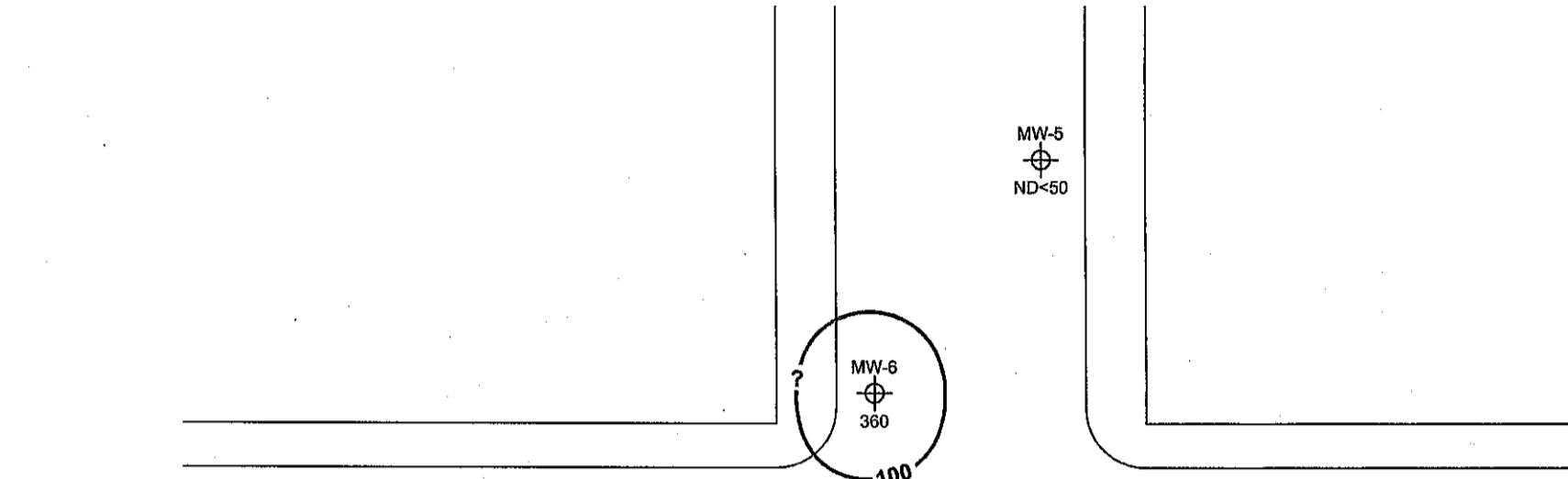
GROUNDWATER ELEVATION  
CONTOUR MAP  
February 8, 2008

FIGURE 2

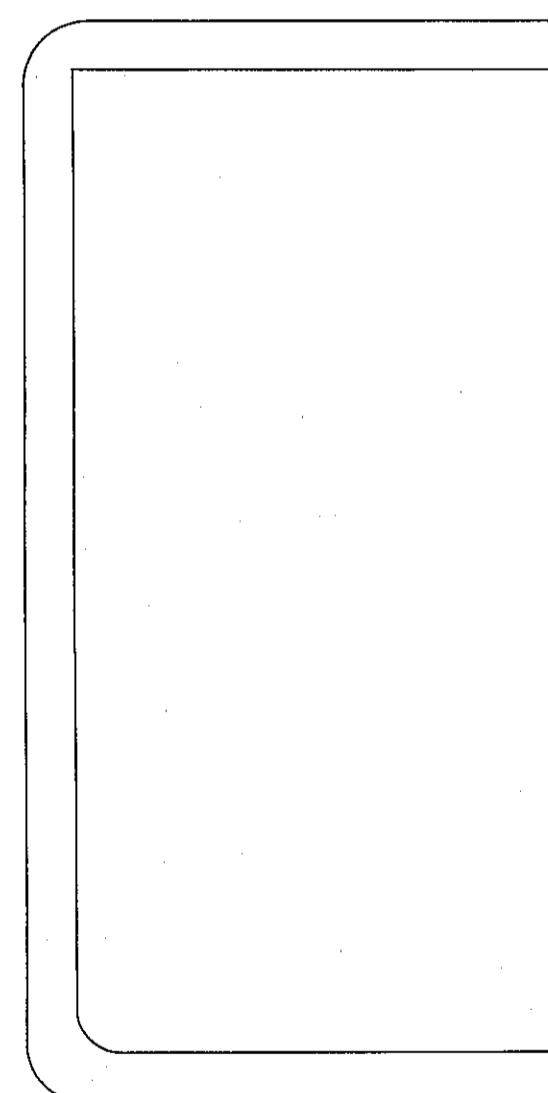
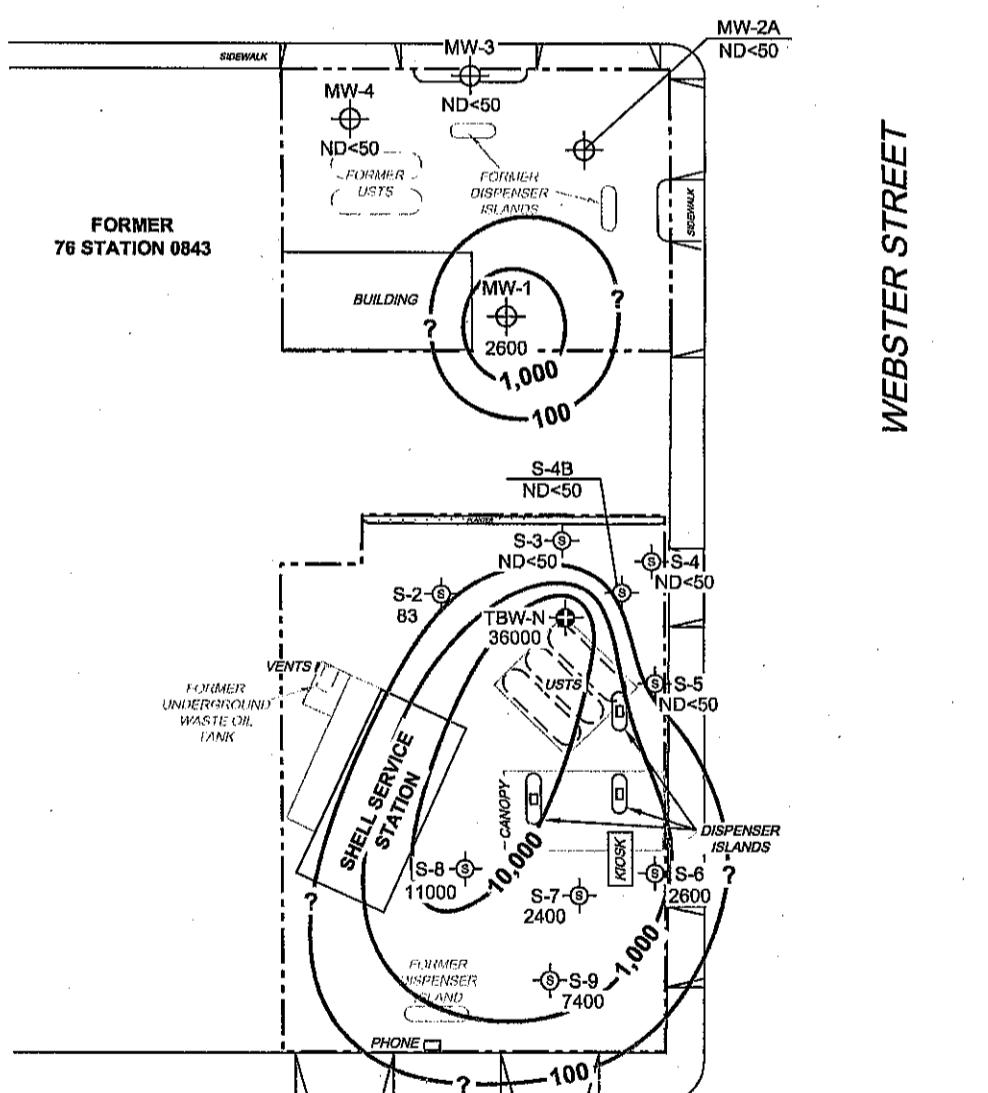
LEGEND

- MW-6 -○- Former 76 Monitoring Well with Dissolved-Phase TPH-G (GC/MS) Concentration ( $\mu\text{g/l}$ )
- S-9 -○- Shell Service Station Monitoring Well with Dissolved-Phase TPH-G Concentration ( $\mu\text{g/l}$ )
- TBW-N -○- Shell Tank Backfill Monitoring Well
- 10,000- Dissolved-Phase TPH-G (GC/MS) Contour ( $\mu\text{g/l}$ )

N

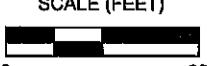


PACIFIC AVENUE

NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples.  
TPH-G (GC/MS) = total petroleum hydrocarbons with gasoline distinction utilizing EPA Method 8260B.  
TPH-G = total petroleum hydrocarbons as gasoline.  $\mu\text{g/l}$  = 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; TPH-G results obtained using EPA Method 8015.

SCALE (FEET)



PROJECT: 154771

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

DISSOLVED-PHASE TPH-G (GC/MS)  
CONCENTRATION MAP  
February 8, 2008

FIGURE 3

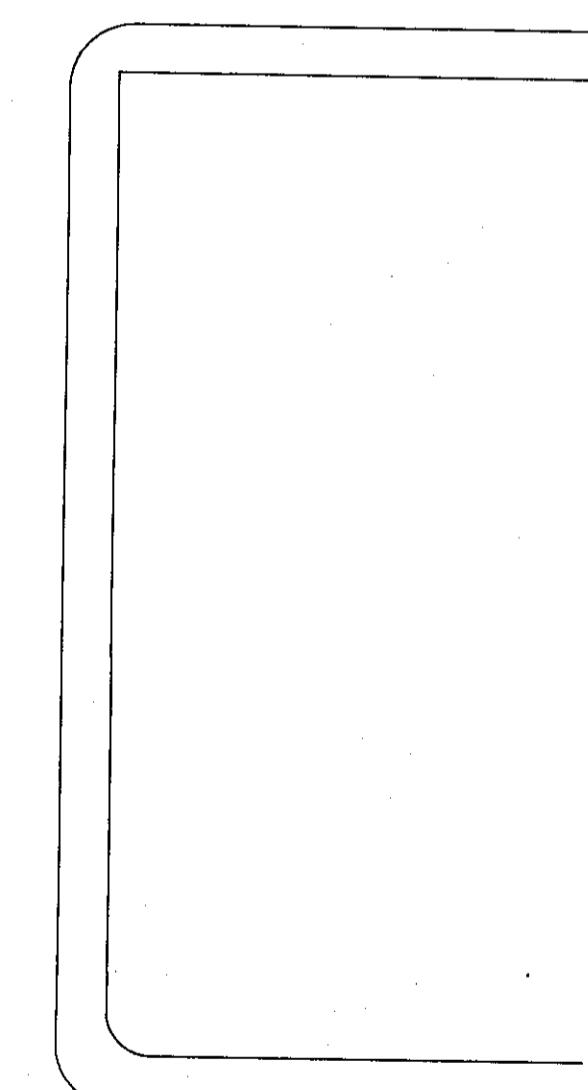
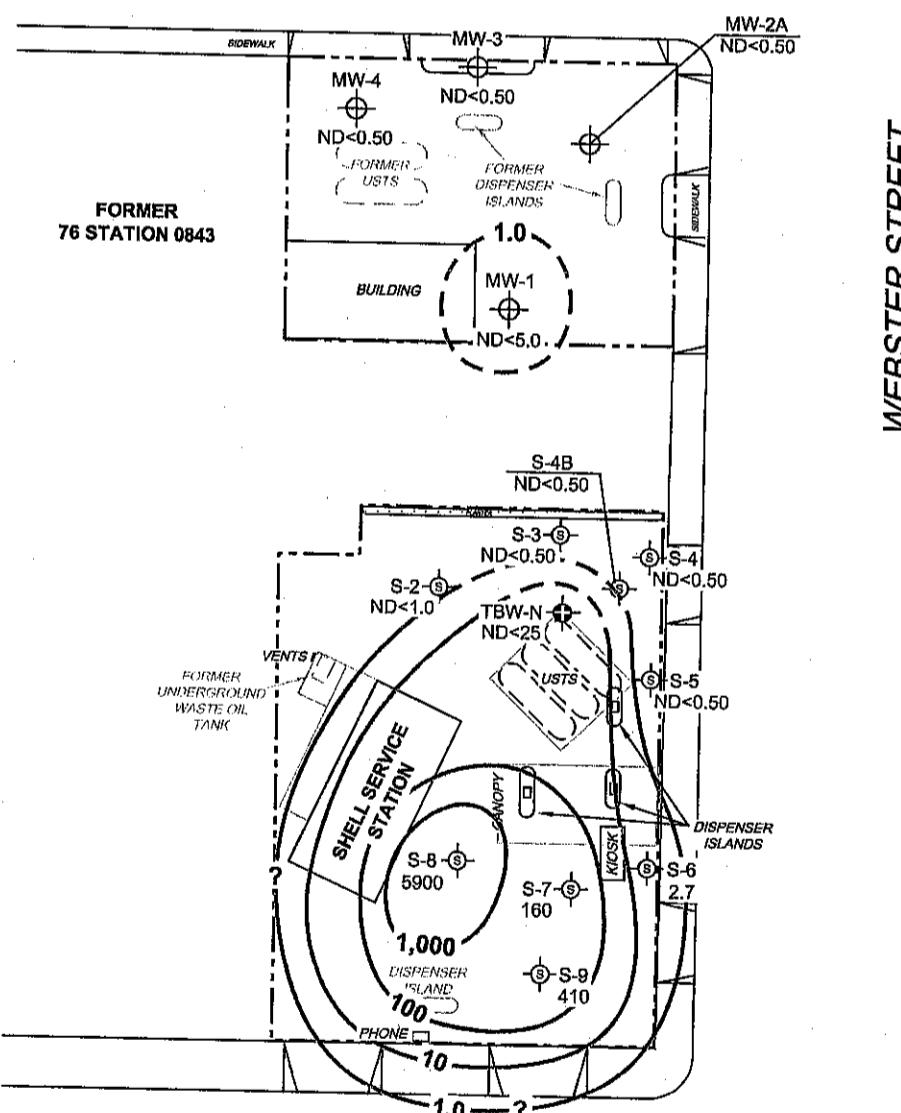
LEGEND

- MW-6 Former 76 Monitoring Well with Dissolved-Phase Benzene Concentration ( $\mu\text{g/l}$ )
- S-9 Shell Service Station Monitoring Well
- TBW-N Shell Tank Backfill Monitoring Well
- 1,000 Dissolved-Phase Benzene Contour ( $\mu\text{g/l}$ )

N

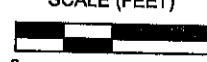
MW-5  
ND<0.50MW-6  
ND<0.50

PACIFIC AVENUE

NOTES:

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

SCALE (FEET)



PROJECT: 154771

FACILITY:

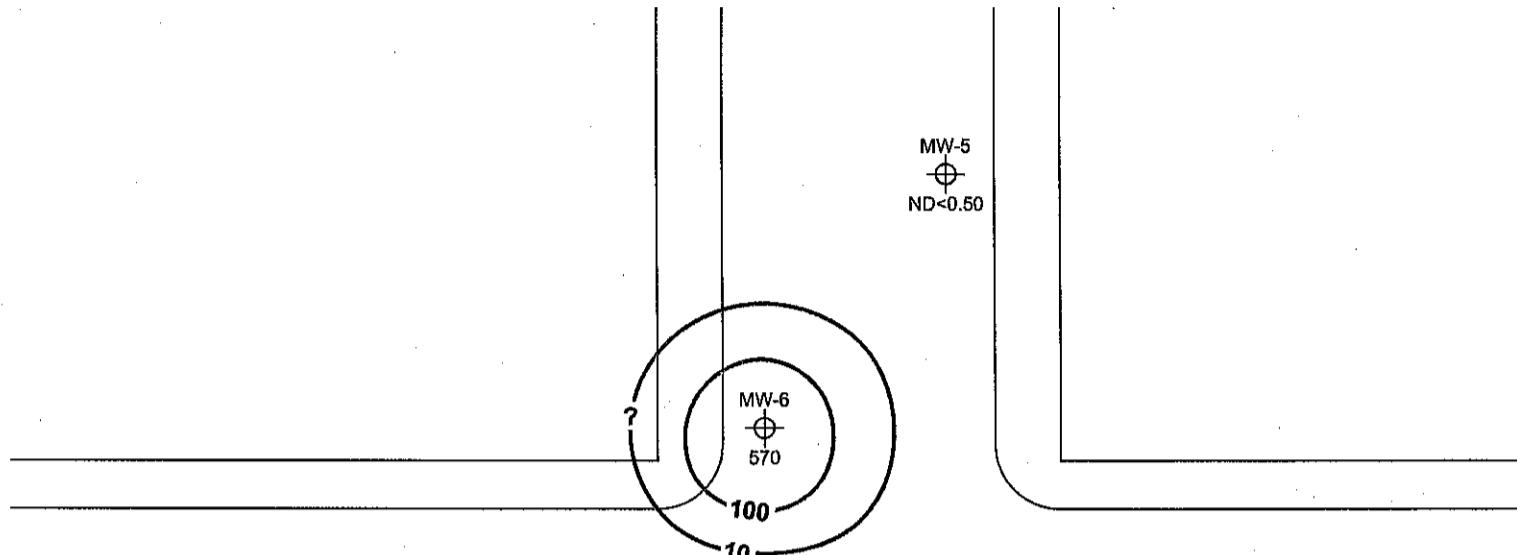
FORMER 76 STATION 0843  
1629 WEBSTER STREET  
ALAMEDA, CALIFORNIADISSOLVED-PHASE BENZENE  
CONCENTRATION MAP  
February 8, 2008

FIGURE 4

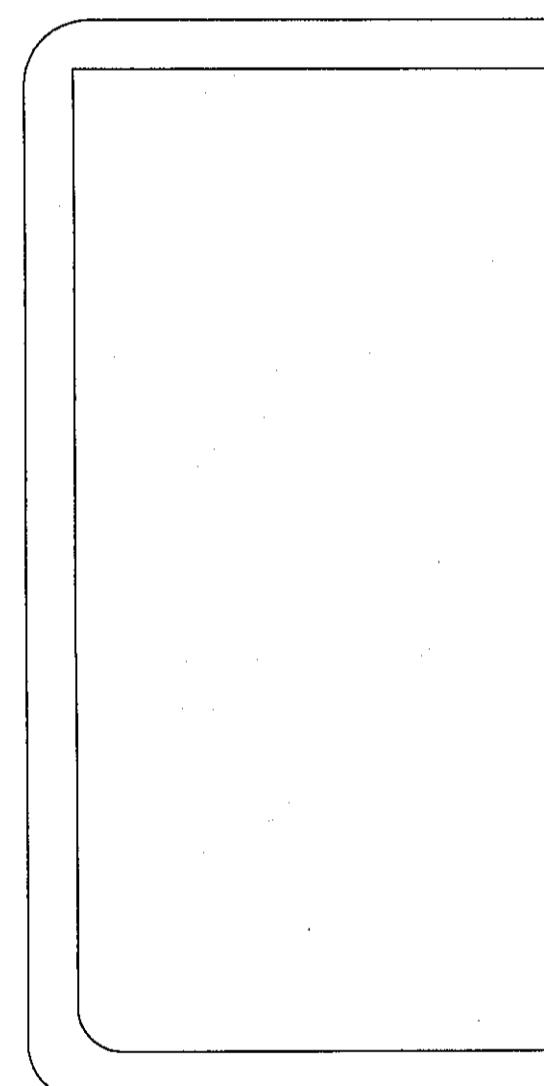
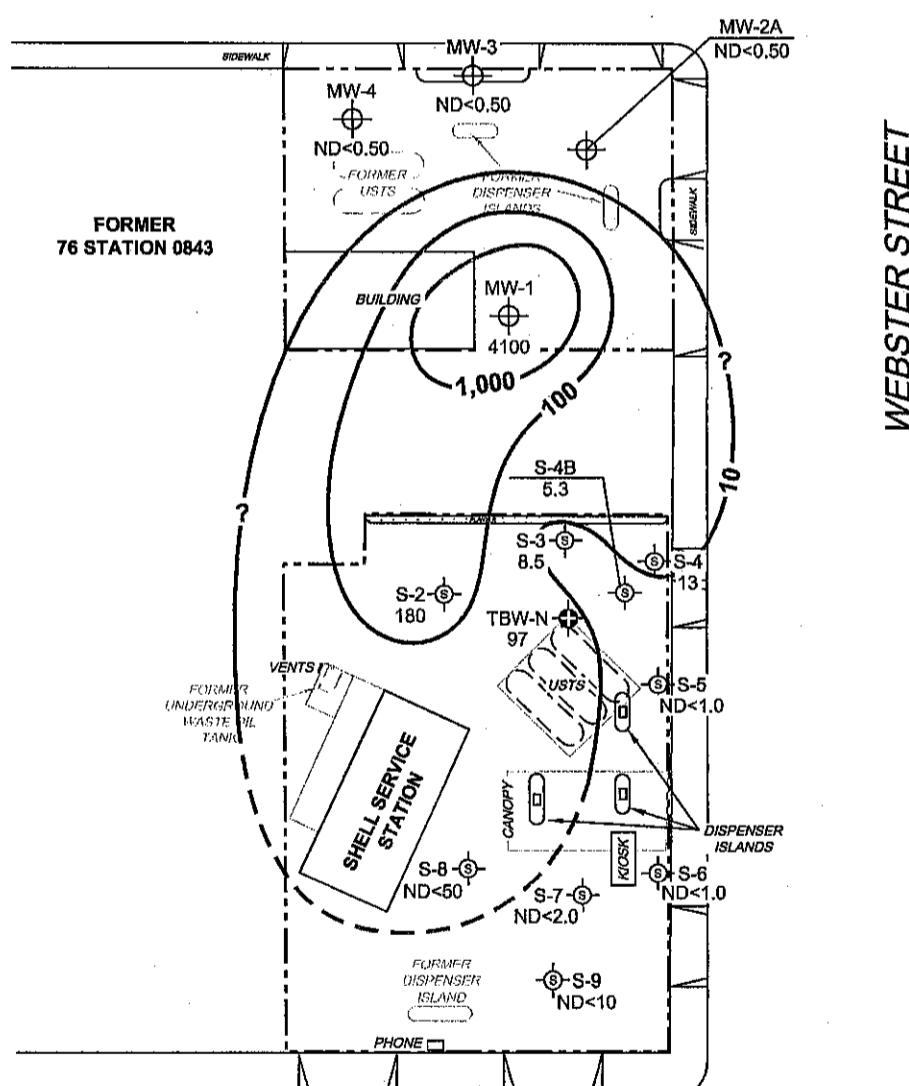
LEGEND

- MW-6 Former 76 Monitoring Well with Dissolved-Phase MTBE Concentration ( $\mu\text{g/l}$ )
- S-9 Shell Service Station Monitoring Well
- TBW-N Shell Tank Backfill Monitoring Well
- 1,000—** Dissolved-Phase MTBE Contour ( $\mu\text{g/l}$ )

N



PACIFIC AVENUE

NOTES:

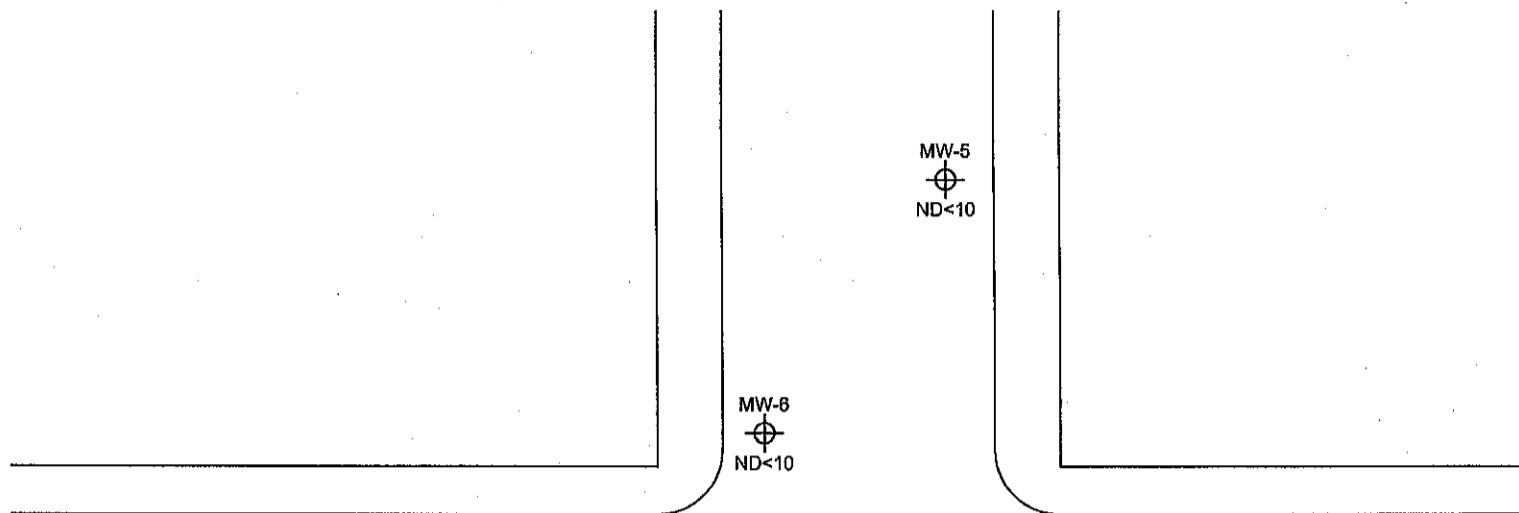
Contour lines are interpretive and based on laboratory analysis results of groundwater samples.  
 MTBE = methyl tertiary butyl ether.  $\mu\text{g/l}$  = micrograms per liter. ND = not detected at limit indicated on official laboratory report. Dashes indicate contour based on non-detect at elevated detection limit. UST = underground storage tank. Shell Service Station data provided by Blaine Tech.  
 Results obtained using EPA Method 8260B.

SCALE (FEET)	TRC	PROJECT: 154771	DISSOLVED-PHASE MTBE CONCENTRATION MAP February 8, 2008
0 60		FACILITY: FORMER 76 STATION 0843 1629 WEBSTER STREET ALAMEDA, CALIFORNIA	
<b>FIGURE 5</b>			

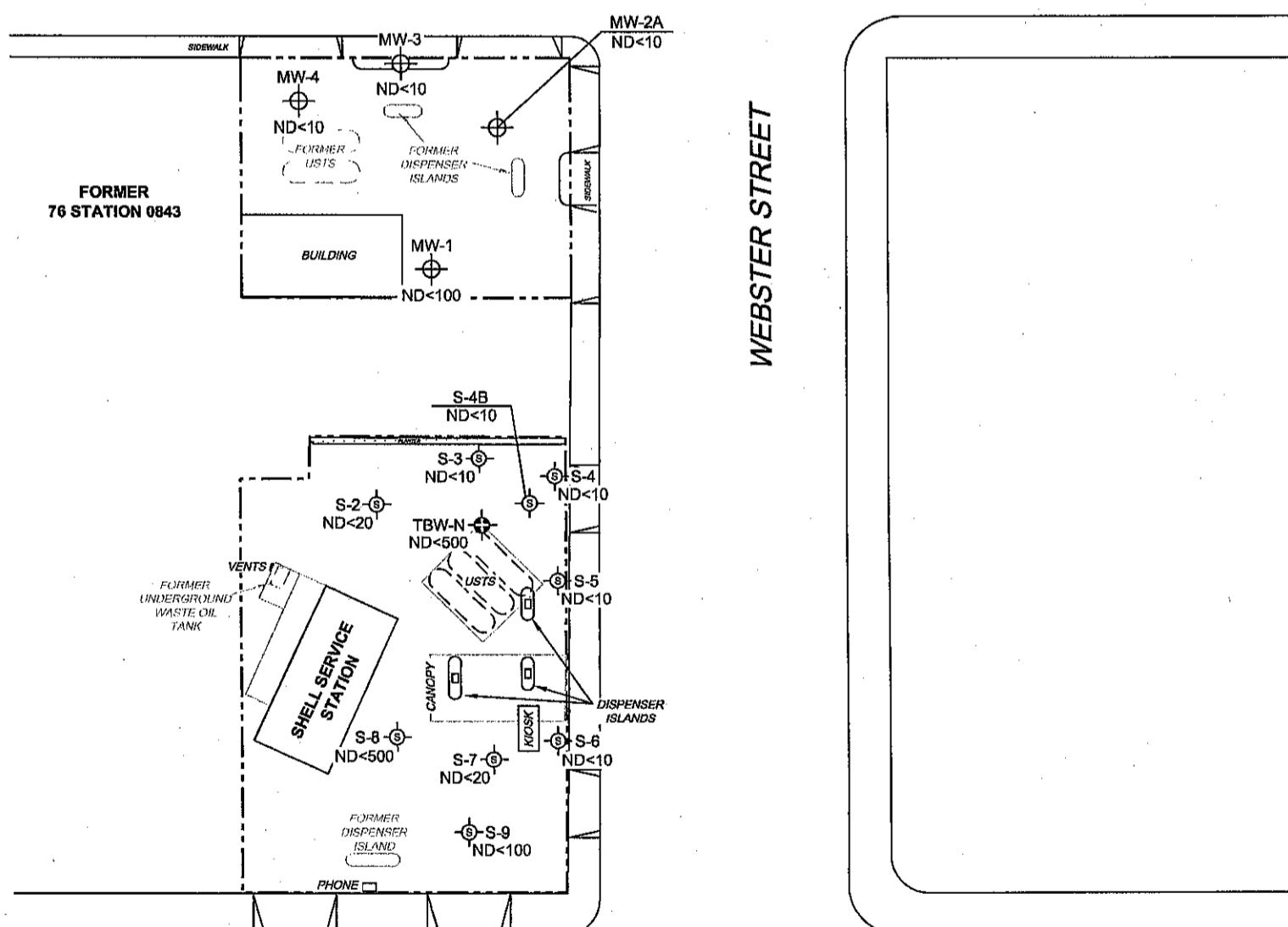
LEGEND

- MW-6 Former 76 Monitoring Well with Dissolved-Phase TBA Concentration ( $\mu\text{g/l}$ )
- S-9 Shell Service Station Monitoring Well
- TBW-N Shell Tank Backfill Monitoring Well

N



PACIFIC AVENUE

NOTES:

TBA = tertiary butyl alcohol.  $\mu\text{g/l}$  = 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 8260B.

SCALE (FEET)  
0 60



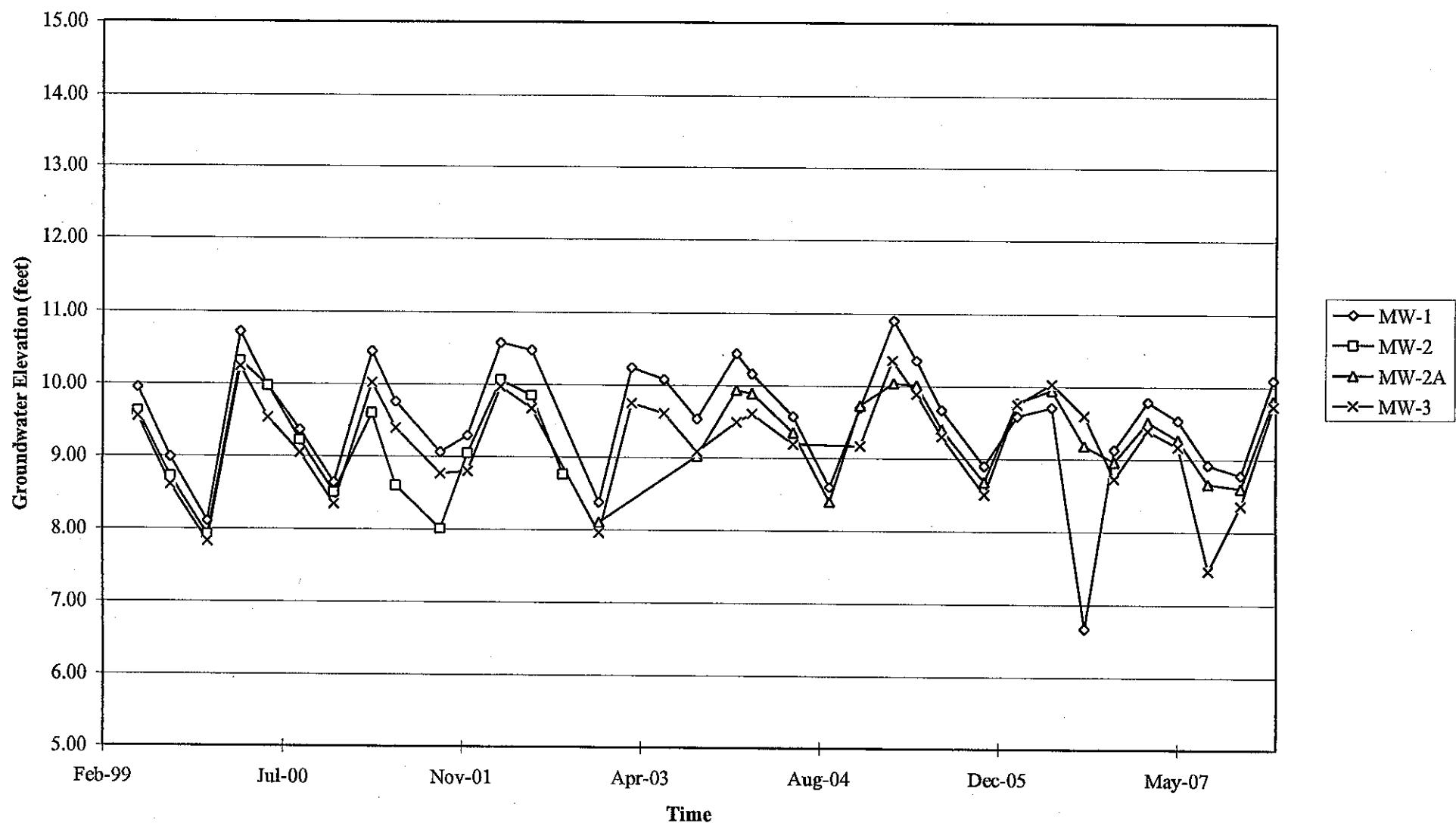
PROJECT: 154771  
FACILITY:  
FORMER 76 STATION 0843  
1629 WEBSTER STREET  
ALAMEDA, CALIFORNIA

DISSOLVED-PHASE TBA CONCENTRATION MAP  
February 8, 2008

**FIGURE 6**

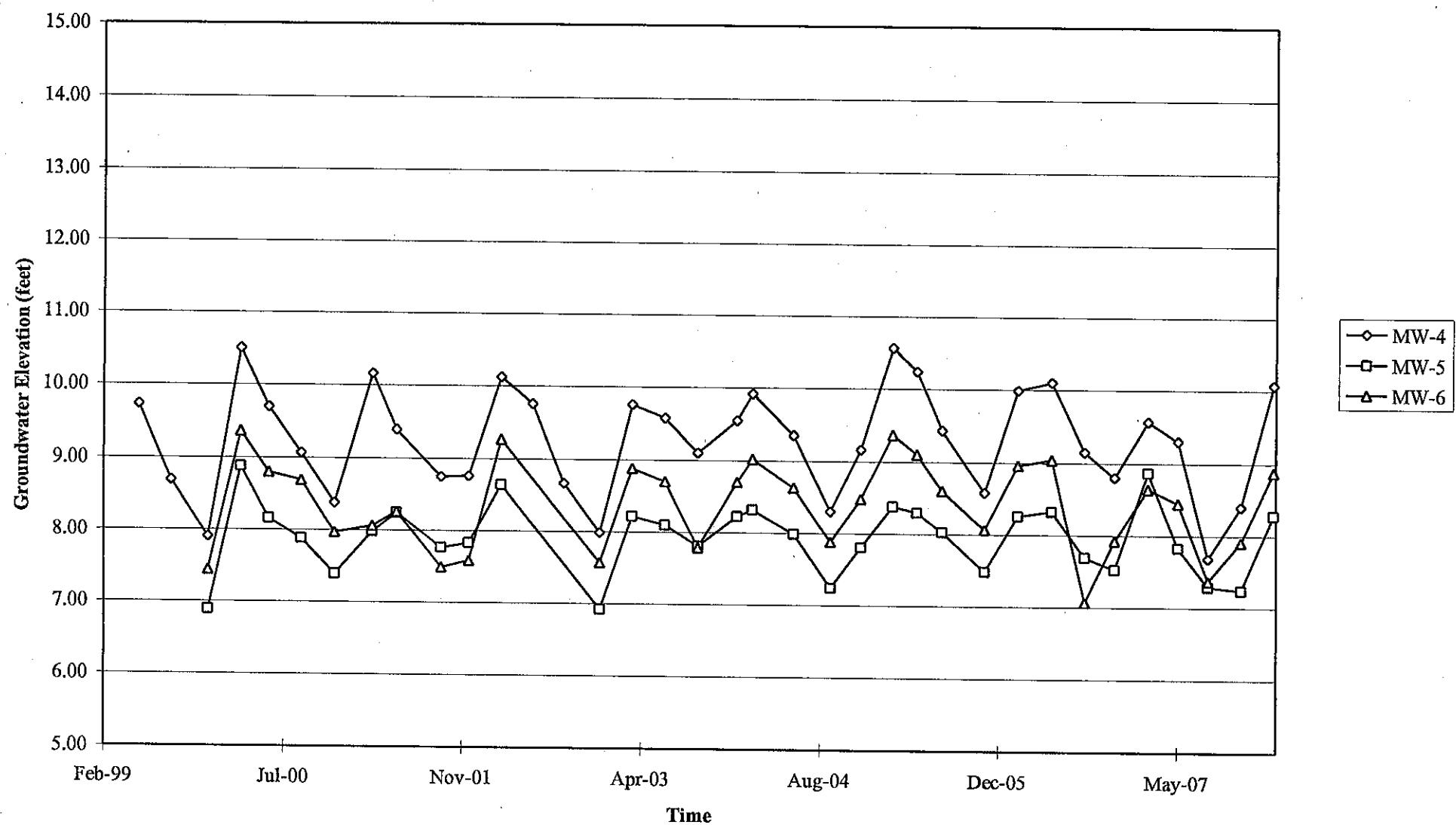
# **GRAPHS**

Groundwater Elevations vs. Time  
Former 76 Station 0843

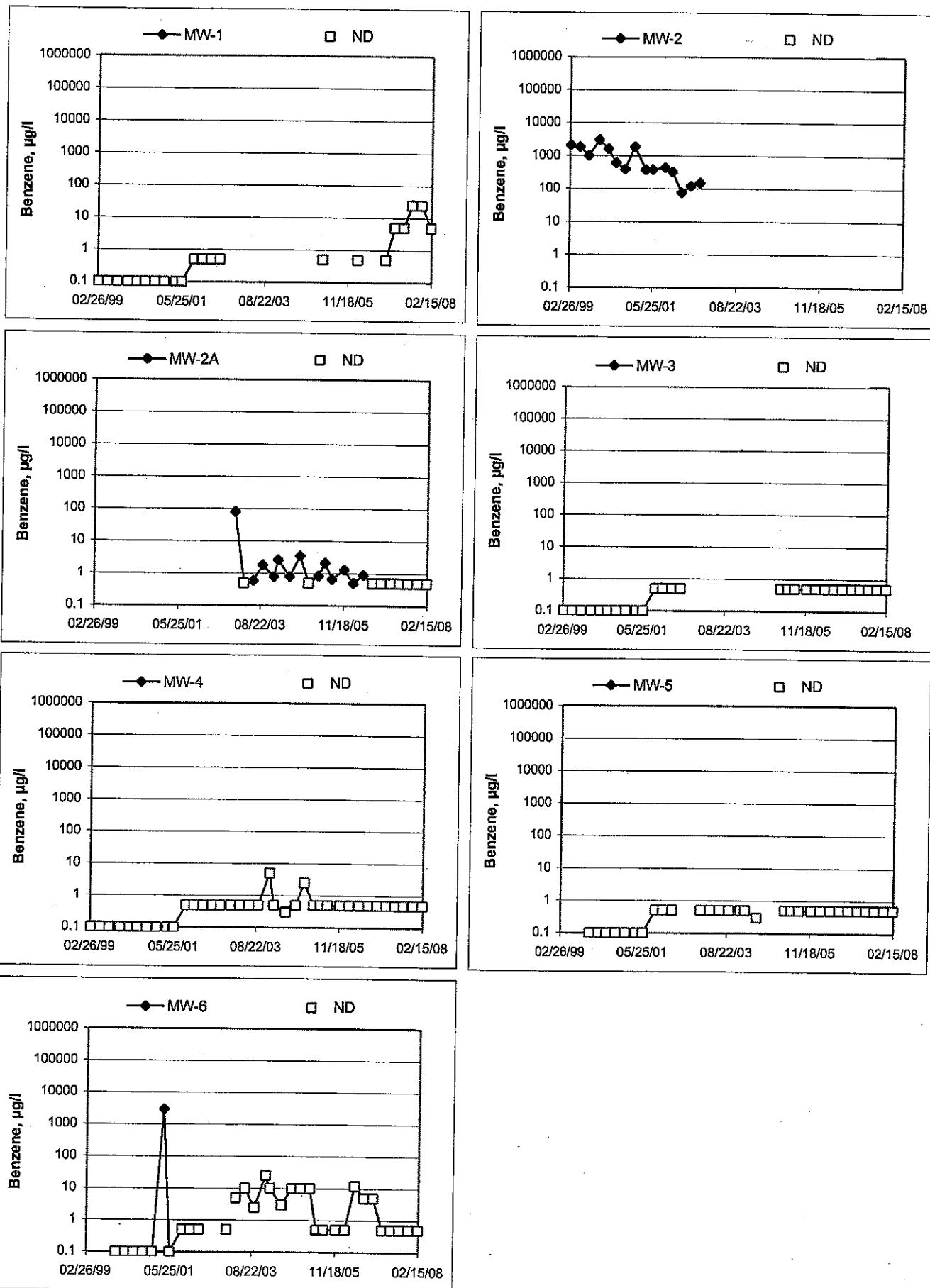


Elevations may have been corrected for apparent changes due to resurvey

Groundwater Elevations vs. Time  
Former 76 Station 0843



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,  $\frac{1}{2}$ -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: ALEX/CHRIS

Job #/Task #: 154771/FA20

Date: 2/8/08

**Site #** 0843

Project Manager A. Collins

Page 1 of 1

FIELD DATA COMPLETE

QA/QC

COC

## WELL BOX CONDITION SHEETS

**WTT CERTIFICATE**

MANIFEST

## DRUM INVENTORY

TRAFFIC CONTROL

# GROUNDWATER SAMPLING FIELD NOTES

Technician: ALEX/CHRIS

Site: 0843

Project No.: 154771

Date: 2/8/03

Well No. MW-4

Purge Method: HB

Depth to Water (feet): 5.10

Depth to Product (feet): —

Total Depth (feet) 18.07

LPH & Water Recovered (gallons): —

Water Column (feet): 12.97

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 7.69

1 Well Volume (gallons): 2

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	D.O.	ORP	Turbidity
<u>0718</u>			<u>2</u>	<u>611.3</u>	<u>12.9</u>	<u>7.56</u>			
			<u>4</u>	<u>631.2</u>	<u>14.4</u>	<u>7.43</u>			
<u>0726</u>			<u>6</u>	<u>617.4</u>	<u>15.0</u>	<u>7.36</u>			
Static at Time Sampled			Total Gallons Purged			Sample Time			
<u>7.54</u>			<u>6</u>			<u>0736</u>			
Comments:									

Well No. MW-1

Purge Method: HB

Depth to Water (feet): 6.09

Depth to Product (feet): —

Total Depth (feet) 19.70

LPH & Water Recovered (gallons): —

Water Column (feet): 13.61

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 8.81

1 Well Volume (gallons): 2

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	D.O.	ORP	Turbidity
<u>0732</u>			<u>2</u>	<u>287.7</u>	<u>13.3</u>	<u>7.28</u>			
			<u>4</u>	<u>283.5</u>	<u>14.8</u>	<u>7.16</u>			
<u>0739</u>			<u>6</u>	<u>343.2</u>	<u>15.6</u>	<u>6.98</u>			
Static at Time Sampled			Total Gallons Purged			Sample Time			
<u>7.20</u>			<u>6</u>			<u>0745</u>			
Comments:									

# GROUNDWATER SAMPLING FIELD NOTES

Technician: ALEX/CHRIS

Site: 0843

Project No.: 154771

Date: 2/8/06  
REG/03

Well No. MW-5

Purge Method: DIA

Depth to Water (feet): 5.06

Depth to Product (feet): —

Total Depth (feet) 20.06

LPH & Water Recovered (gallons): —

Water Column (feet): 15.00

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 8.06

1 Well Volume (gallons): 2

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	D.O.	ORP	Turbidity
0610			2	568.5	16.2	6.71			
			4	555.3	15.6	6.68			
0614			6	597.5	17.0	6.62			
Static at Time Sampled			Total Gallons Purged			Sample Time			
<u>8:7.43</u>			<u>6</u>			<u>0620</u>			
Comments:									

Well No. MW-6

Purge Method: DIA

Depth to Water (feet): 5.20

Depth to Product (feet): —

Total Depth (feet) 19.86

LPH & Water Recovered (gallons): —

Water Column (feet): 14.66

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 8.13

1 Well Volume (gallons): 2

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	D.O.	ORP	Turbidity
0630			2	627.9	14.5	6.61			
			4	627.5	15.3	6.56			
0633			6	634.8	16.2	6.51			
Static at Time Sampled			Total Gallons Purged			Sample Time			
<u>8.13</u>			<u>6</u>			<u>0635</u>			
Comments:									

# GROUNDWATER SAMPLING FIELD NOTES

Technician: Alex / Chms

Site: 0843

Project No.: 154771

Date: 2/8/08

Well No. MW 2A

Purge Method: HB

Depth to Water (feet): 5.76

Depth to Product (feet): \_\_\_\_\_

Total Depth (feet) 10.50

LPH & Water Recovered (gallons): \_\_\_\_\_

Water Column (feet): 4.74

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 6.78

1 Well Volume (gallons): 1

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	D.O.	ORP	Turbidity
<u>0652</u>			<u>1</u>	<u>502.2</u>	<u>13.2</u>	<u>9.77</u>			
			<u>2</u>	<u>471.9</u>	<u>14.2</u>	<u>9.93</u>			
<u>0655</u>			<u>3</u>	<u>478.3</u>	<u>14.7</u>	<u>9.92</u>			
Static at Time Sampled			Total Gallons Purged			Sample Time			
<u>6.50</u>			<u>3</u>			<u>0700</u>			
Comments:									

Well No. MW-3

Purge Method: HB

Depth to Water (feet): 5.39

Depth to Product (feet): \_\_\_\_\_

Total Depth (feet) 19.81

LPH & Water Recovered (gallons): \_\_\_\_\_

Water Column (feet): 14.42

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 8.27

1 Well Volume (gallons): 2

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	D.O.	ORP	Turbidity
<u>0749</u>			<u>2</u>	<u>691.3</u>	<u>14.3</u>	<u>6.81</u>			
			<u>4</u>	<u>735.0</u>	<u>16.0</u>	<u>6.78</u>			
<u>0756</u>			<u>6</u>						
Static at Time Sampled			Total Gallons Purged			Sample Time			
<u>7.74</u>			<u>6</u>			<u>0800</u>			
Comments:									



LABORATORIES, INC.

Date of Report: 02/22/2008

Anju Farfan

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

RE: 0843

BC Work Order: 0801866

Enclosed are the results of analyses for samples received by the laboratory on 02/08/2008 19:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



A handwritten signature in cursive ink that reads "Molly Meyers".

Contact Person: Molly Meyers  
Client Service Rep



A handwritten signature in cursive ink that appears to be "K".

Authorized Signature



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

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

Reported: 02/22/2008 8:11

## Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information				
0801866-01	COC Number: --- Project Number: 0843 Sampling Location: MW-1 Sampling Point: MW-1 Sampled By: TRCI	Receive Date: 02/08/2008 19:15 Sampling Date: 02/08/2008 07:45 Sample Depth: --- Sample Matrix: Water	Delivery Work Order: Global ID: T0600102263 Matrix: W Samle QC Type (SACode): CS Cooler ID:		
0801866-02	COC Number: --- Project Number: 0843 Sampling Location: MW-2A Sampling Point: MW-2A Sampled By: TRCI	Receive Date: 02/08/2008 19:15 Sampling Date: 02/08/2008 07:00 Sample Depth: --- Sample Matrix: Water	Delivery Work Order: Global ID: T0600102263 Matrix: W Samle QC Type (SACode): CS Cooler ID:		
0801866-03	COC Number: --- Project Number: 0843 Sampling Location: MW-3 Sampling Point: MW-3 Sampled By: TRCI	Receive Date: 02/08/2008 19:15 Sampling Date: 02/08/2008 08:00 Sample Depth: --- Sample Matrix: Water	Delivery Work Order: Global ID: T0600102263 Matrix: W Samle QC Type (SACode): CS Cooler ID:		
0801866-04	COC Number: --- Project Number: 0843 Sampling Location: MW-4 Sampling Point: MW-4 Sampled By: TRCI	Receive Date: 02/08/2008 19:15 Sampling Date: 02/08/2008 07:30 Sample Depth: --- Sample Matrix: Water	Delivery Work Order: Global ID: T0600102263 Matrix: W Samle QC Type (SACode): CS Cooler ID:		
0801866-05	COC Number: --- Project Number: 0843 Sampling Location: MW-5 Sampling Point: MW-5 Sampled By: TRCI	Receive Date: 02/08/2008 19:15 Sampling Date: 02/08/2008 06:20 Sample Depth: --- Sample Matrix: Water	Delivery Work Order: Global ID: T0600102263 Matrix: W Samle QC Type (SACode): CS Cooler ID:		



LABORATORIES, INC.

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

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

Reported: 02/22/2008 8:11

## Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
0801866-06	COC Number: --- Project Number: 0843 Sampling Location: MW-6 Sampling Point: MW-6 Sampled By: TRCI	Receive Date: 02/08/2008 19:15 Sampling Date: 02/08/2008 06:35 Sample Depth: --- Sample Matrix: Water	Delivery Work Order: Global ID: T0600102263 Matrix: W Samle 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: 02/22/2008 8:11

## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0801866-01	Client Sample Name: 0843, MW-1, MW-1, 2/8/2008 7:45:00AM											
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	5.0		EPA-8260	02/14/08	02/15/08 22:22	SDU	MS-V10	10	BRB0765	ND	A01
Ethylbenzene	ND	ug/L	5.0		EPA-8260	02/14/08	02/15/08 22:22	SDU	MS-V10	10	BRB0765	ND	A01
Methyl t-butyl ether	4100	ug/L	25		EPA-8260	02/14/08	02/14/08 14:33	SDU	MS-V10	50	BRB0765	ND	A01
Toluene	ND	ug/L	5.0		EPA-8260	02/14/08	02/15/08 22:22	SDU	MS-V10	10	BRB0765	ND	A01
Total Xylenes	ND	ug/L	10		EPA-8260	02/14/08	02/15/08 22:22	SDU	MS-V10	10	BRB0765	ND	A01
t-Amyl Methyl ether	ND	ug/L	5.0		EPA-8260	02/14/08	02/15/08 22:22	SDU	MS-V10	10	BRB0765	ND	A01
t-Butyl alcohol	ND	ug/L	100		EPA-8260	02/14/08	02/15/08 22:22	SDU	MS-V10	10	BRB0765	ND	A01
Diisopropyl ether	ND	ug/L	5.0		EPA-8260	02/14/08	02/15/08 22:22	SDU	MS-V10	10	BRB0765	ND	A01
Ethanol	ND	ug/L	2500		EPA-8260	02/14/08	02/15/08 22:22	SDU	MS-V10	10	BRB0765	ND	A01
Ethyl t-butyl ether	ND	ug/L	5.0		EPA-8260	02/14/08	02/15/08 22:22	SDU	MS-V10	10	BRB0765	ND	A01
Total Purgeable Petroleum Hydrocarbons	2600	ug/L	500		EPA-8260	02/14/08	02/15/08 22:22	SDU	MS-V10	10	BRB0765	ND	A01,A90
1,2-Dichloroethane-d4 (Surrogate)	111	%	76 - 114 (LCL - UCL)		EPA-8260	02/14/08	02/14/08 14:33	SDU	MS-V10	50	BRB0765		
1,2-Dichloroethane-d4 (Surrogate)	99.7	%	76 - 114 (LCL - UCL)		EPA-8260	02/14/08	02/15/08 22:22	SDU	MS-V10	10	BRB0765		
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)		EPA-8260	02/14/08	02/14/08 14:33	SDU	MS-V10	50	BRB0765		
Toluene-d8 (Surrogate)	98.6	%	88 - 110 (LCL - UCL)		EPA-8260	02/14/08	02/15/08 22:22	SDU	MS-V10	10	BRB0765		
4-Bromofluorobenzene (Surrogate)	97.4	%	86 - 115 (LCL - UCL)		EPA-8260	02/14/08	02/15/08 22:22	SDU	MS-V10	10	BRB0765		
4-Bromofluorobenzene (Surrogate)	96.4	%	86 - 115 (LCL - UCL)		EPA-8260	02/14/08	02/14/08 14:33	SDU	MS-V10	50	BRB0765		



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## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0801866-02	Client Sample Name: 0843, MW-2A, MW-2A, 2/8/2008 7:00:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Instrument ID	QC Dilution	MB Batch ID	Lab Quals	
Benzene	ND	ug/L	0.50		EPA-8260	02/14/08	02/14/08 13:04	SDU	MS-V10	1	BRB0765	ND
Ethylbenzene	ND	ug/L	0.50		EPA-8260	02/14/08	02/14/08 13:04	SDU	MS-V10	1	BRB0765	ND
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	02/14/08	02/14/08 13:04	SDU	MS-V10	1	BRB0765	ND
Toluene	ND	ug/L	0.50		EPA-8260	02/14/08	02/14/08 13:04	SDU	MS-V10	1	BRB0765	ND
Total Xylenes	ND	ug/L	1.0		EPA-8260	02/14/08	02/14/08 13:04	SDU	MS-V10	1	BRB0765	ND
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	02/14/08	02/14/08 13:04	SDU	MS-V10	1	BRB0765	ND
t-Butyl alcohol	ND	ug/L	10		EPA-8260	02/14/08	02/14/08 13:04	SDU	MS-V10	1	BRB0765	ND
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	02/14/08	02/14/08 13:04	SDU	MS-V10	1	BRB0765	ND
Ethanol	ND	ug/L	250		EPA-8260	02/14/08	02/14/08 13:04	SDU	MS-V10	1	BRB0765	ND
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	02/14/08	02/14/08 13:04	SDU	MS-V10	1	BRB0765	ND
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	02/14/08	02/14/08 13:04	SDU	MS-V10	1	BRB0765	ND
1,2-Dichloroethane-d4 (Surrogate)	111	%	76 - 114 (LCL - UCL)		EPA-8260	02/14/08	02/14/08 13:04	SDU	MS-V10	1	BRB0765	
Toluene-d8 (Surrogate)	101	%	88 - 110 (LCL - UCL)		EPA-8260	02/14/08	02/14/08 13:04	SDU	MS-V10	1	BRB0765	
4-Bromofluorobenzene (Surrogate)	97.0	%	86 - 115 (LCL - UCL)		EPA-8260	02/14/08	02/14/08 13:04	SDU	MS-V10	1	BRB0765	



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## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0801866-03	Client Sample Name: 0843, MW-3, MW-3, 2/8/2008 8:00:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	QC Dilution	MB Batch ID	Lab Bias	Quals
Benzene	ND	ug/L	0.50	EPA-8260	02/14/08	02/14/08 13:22	SDU	MS-V10	1	BRB0765	ND		
Ethylbenzene	ND	ug/L	0.50	EPA-8260	02/14/08	02/14/08 13:22	SDU	MS-V10	1	BRB0765	ND		
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	02/14/08	02/14/08 13:22	SDU	MS-V10	1	BRB0765	ND		
Toluene	ND	ug/L	0.50	EPA-8260	02/14/08	02/14/08 13:22	SDU	MS-V10	1	BRB0765	ND		
Total Xylenes	ND	ug/L	1.0	EPA-8260	02/14/08	02/14/08 13:22	SDU	MS-V10	1	BRB0765	ND		
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	02/14/08	02/14/08 13:22	SDU	MS-V10	1	BRB0765	ND		
t-Butyl alcohol	ND	ug/L	10	EPA-8260	02/14/08	02/14/08 13:22	SDU	MS-V10	1	BRB0765	ND		
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	02/14/08	02/14/08 13:22	SDU	MS-V10	1	BRB0765	ND		
Ethanol	ND	ug/L	250	EPA-8260	02/14/08	02/14/08 13:22	SDU	MS-V10	1	BRB0765	ND		
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	02/14/08	02/14/08 13:22	SDU	MS-V10	1	BRB0765	ND		
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	EPA-8260	02/14/08	02/14/08 13:22	SDU	MS-V10	1	BRB0765	ND		
1,2-Dichloroethane-d4 (Surrogate)	114	%	76 - 114 (LCL - UCL)	EPA-8260	02/14/08	02/14/08 13:22	SDU	MS-V10	1	BRB0765			
Toluene-d8 (Surrogate)	101	%	88 - 110 (LCL - UCL)	EPA-8260	02/14/08	02/14/08 13:22	SDU	MS-V10	1	BRB0765			
4-Bromofluorobenzene (Surrogate)	94.3	%	86 - 115 (LCL - UCL)	EPA-8260	02/14/08	02/14/08 13:22	SDU	MS-V10	1	BRB0765			



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## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0801866-04	Client Sample Name: 0843, MW-4, MW-4, 2/8/2008 7:30:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	02/14/08	02/16/08 01:20	SDU	MS-V10	1	BRB0973	ND
Ethylbenzene	ND	ug/L	0.50		EPA-8260	02/14/08	02/16/08 01:20	SDU	MS-V10	1	BRB0973	ND
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	02/14/08	02/16/08 01:20	SDU	MS-V10	1	BRB0973	ND
Toluene	ND	ug/L	0.50		EPA-8260	02/14/08	02/16/08 01:20	SDU	MS-V10	1	BRB0973	ND
Total Xylenes	ND	ug/L	1.0		EPA-8260	02/14/08	02/16/08 01:20	SDU	MS-V10	1	BRB0973	ND
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	02/14/08	02/16/08 01:20	SDU	MS-V10	1	BRB0973	ND
t-Butyl alcohol	ND	ug/L	10		EPA-8260	02/14/08	02/16/08 01:20	SDU	MS-V10	1	BRB0973	ND
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	02/14/08	02/16/08 01:20	SDU	MS-V10	1	BRB0973	ND
Ethanol	290	ug/L	250		EPA-8260	02/14/08	02/16/08 01:20	SDU	MS-V10	1	BRB0973	ND
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	02/14/08	02/16/08 01:20	SDU	MS-V10	1	BRB0973	ND
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	02/14/08	02/16/08 01:20	SDU	MS-V10	1	BRB0973	ND
1,2-Dichloroethane-d4 (Surrogate)	101	%	76 - 114 (LCL - UCL)		EPA-8260	02/14/08	02/16/08 01:20	SDU	MS-V10	1	BRB0973	
Toluene-d8 (Surrogate)	89.2	%	88 - 110 (LCL - UCL)		EPA-8260	02/14/08	02/16/08 01:20	SDU	MS-V10	1	BRB0973	
4-Bromofluorobenzene (Surrogate)	97.8	%	86 - 115 (LCL - UCL)		EPA-8260	02/14/08	02/16/08 01:20	SDU	MS-V10	1	BRB0973	



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## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0801866-05	Client Sample Name: 0843, MW-5, MW-5, 2/8/2008 6:20:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Instrument ID	QC Dilution	MB Batch ID	Lab Bias	Quals
Benzene	ND	ug/L	0.50		EPA-8260	02/14/08	02/16/08 01:38	SDU	MS-V10	1	BRB0973	ND
Ethylbenzene	ND	ug/L	0.50		EPA-8260	02/14/08	02/16/08 01:38	SDU	MS-V10	1	BRB0973	ND
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	02/14/08	02/16/08 01:38	SDU	MS-V10	1	BRB0973	ND
Toluene	ND	ug/L	0.50		EPA-8260	02/14/08	02/16/08 01:38	SDU	MS-V10	1	BRB0973	ND
Total Xylenes	ND	ug/L	1.0		EPA-8260	02/14/08	02/16/08 01:38	SDU	MS-V10	1	BRB0973	ND
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	02/14/08	02/16/08 01:38	SDU	MS-V10	1	BRB0973	ND
t-Butyl alcohol	ND	ug/L	10		EPA-8260	02/14/08	02/16/08 01:38	SDU	MS-V10	1	BRB0973	ND
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	02/14/08	02/16/08 01:38	SDU	MS-V10	1	BRB0973	ND
Ethanol	ND	ug/L	250		EPA-8260	02/14/08	02/16/08 01:38	SDU	MS-V10	1	BRB0973	ND
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	02/14/08	02/16/08 01:38	SDU	MS-V10	1	BRB0973	ND
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	02/14/08	02/16/08 01:38	SDU	MS-V10	1	BRB0973	ND
1,2-Dichloroethane-d4 (Surrogate)	103	%	76 - 114 (LCL - UCL)		EPA-8260	02/14/08	02/16/08 01:38	SDU	MS-V10	1	BRB0973	
Toluene-d8 (Surrogate)	97.6	%	88 - 110 (LCL - UCL)		EPA-8260	02/14/08	02/16/08 01:38	SDU	MS-V10	1	BRB0973	
4-Bromofluorobenzene (Surrogate)	99.9	%	86 - 115 (LCL - UCL)		EPA-8260	02/14/08	02/16/08 01:38	SDU	MS-V10	1	BRB0973	



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## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0801866-06	Client Sample Name: 0843, MW-6, MW-6, 2/8/2008 6:35:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Instrument ID	QC Dilution	MB Batch ID	Lab Bias	Quals
Benzene	ND	ug/L	0.50		EPA-8260	02/14/08	02/16/08 01:55	SDU	MS-V10	1	BRB0765	ND
Ethylbenzene	ND	ug/L	0.50		EPA-8260	02/14/08	02/16/08 01:55	SDU	MS-V10	1	BRB0765	ND
Methyl t-butyl ether	570	ug/L	5.0		EPA-8260	02/14/08	02/14/08 14:50	SDU	MS-V10	10	BRB0765	ND A01
Toluene	ND	ug/L	0.50		EPA-8260	02/14/08	02/16/08 01:55	SDU	MS-V10	1	BRB0765	ND
Total Xylenes	ND	ug/L	1.0		EPA-8260	02/14/08	02/16/08 01:55	SDU	MS-V10	1	BRB0765	ND
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	02/14/08	02/16/08 01:55	SDU	MS-V10	1	BRB0765	ND
t-Butyl alcohol	ND	ug/L	10		EPA-8260	02/14/08	02/16/08 01:55	SDU	MS-V10	1	BRB0765	ND
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	02/14/08	02/16/08 01:55	SDU	MS-V10	1	BRB0765	ND
Ethanol	ND	ug/L	250		EPA-8260	02/14/08	02/16/08 01:55	SDU	MS-V10	1	BRB0765	ND
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	02/14/08	02/16/08 01:55	SDU	MS-V10	1	BRB0765	ND
Total Purgeable Petroleum Hydrocarbons	360	ug/L	50		EPA-8260	02/14/08	02/16/08 01:55	SDU	MS-V10	1	BRB0765	ND A90
1,2-Dichloroethane-d4 (Surrogate)	100	%	76 - 114 (LCL - UCL)		EPA-8260	02/14/08	02/16/08 01:55	SDU	MS-V10	1	BRB0765	
1,2-Dichloroethane-d4 (Surrogate)	110	%	76 - 114 (LCL - UCL)		EPA-8260	02/14/08	02/14/08 14:50	SDU	MS-V10	10	BRB0765	
Toluene-d8 (Surrogate)	101	%	88 - 110 (LCL - UCL)		EPA-8260	02/14/08	02/14/08 14:50	SDU	MS-V10	10	BRB0765	
Toluene-d8 (Surrogate)	98.5	%	88 - 110 (LCL - UCL)		EPA-8260	02/14/08	02/16/08 01:55	SDU	MS-V10	1	BRB0765	
4-Bromofluorobenzene (Surrogate)	102	%	86 - 115 (LCL - UCL)		EPA-8260	02/14/08	02/16/08 01:55	SDU	MS-V10	1	BRB0765	
4-Bromofluorobenzene (Surrogate)	96.6	%	86 - 115 (LCL - UCL)		EPA-8260	02/14/08	02/14/08 14:50	SDU	MS-V10	10	BRB0765	



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## Volatile Organic Analysis (EPA Method 8260)

### Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	Control Limits		
								Percent Recovery	RPD	Percent Recovery Lab Quals
Benzene	BRB0765	Matrix Spike	0801838-01	0	26.450	25.000	ug/L	106		70 - 130
		Matrix Spike Duplicate	0801838-01	0	26.250	25.000	ug/L	0.9	105	20
Toluene	BRB0765	Matrix Spike	0801838-01	0	27.200	25.000	ug/L	109		70 - 130
		Matrix Spike Duplicate	0801838-01	0	27.380	25.000	ug/L	0.9	110	20
1,2-Dichloroethane-d4 (Surrogate)	BRB0765	Matrix Spike	0801838-01	ND	10.750	10.000	ug/L	108		76 - 114
		Matrix Spike Duplicate	0801838-01	ND	11.090	10.000	ug/L	111		76 - 114
Toluene-d8 (Surrogate)	BRB0765	Matrix Spike	0801838-01	ND	10.320	10.000	ug/L	103		88 - 110
		Matrix Spike Duplicate	0801838-01	ND	10.310	10.000	ug/L	103		88 - 110
4-Bromofluorobenzene (Surrogate)	BRB0765	Matrix Spike	0801838-01	ND	9.6900	10.000	ug/L	96.9		86 - 115
		Matrix Spike Duplicate	0801838-01	ND	9.5400	10.000	ug/L	95.4		86 - 115
Benzene	BRB0973	Matrix Spike	0801068-63	0	20.810	25.000	ug/L	83.2		70 - 130
		Matrix Spike Duplicate	0801068-63	0	22.960	25.000	ug/L	9.8	91.8	20
Toluene	BRB0973	Matrix Spike	0801068-63	0	21.590	25.000	ug/L	86.4		70 - 130
		Matrix Spike Duplicate	0801068-63	0	23.980	25.000	ug/L	10.4	95.9	20
1,2-Dichloroethane-d4 (Surrogate)	BRB0973	Matrix Spike	0801068-63	ND	9.9100	10.000	ug/L	99.1		76 - 114
		Matrix Spike Duplicate	0801068-63	ND	9.9100	10.000	ug/L	99.1		76 - 114
Toluene-d8 (Surrogate)	BRB0973	Matrix Spike	0801068-63	ND	10.180	10.000	ug/L	102		88 - 110
		Matrix Spike Duplicate	0801068-63	ND	10.110	10.000	ug/L	101		88 - 110
4-Bromofluorobenzene (Surrogate)	BRB0973	Matrix Spike	0801068-63	ND	10.120	10.000	ug/L	101		86 - 115
		Matrix Spike Duplicate	0801068-63	ND	10.090	10.000	ug/L	101		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	Control Limits		
									Percent Recovery	RPD	Lab Quals
Benzene	BRB0765	BRB0765-BS1	LCS	26.590	25.000	1.0	ug/L	106	70 - 130		
Toluene	BRB0765	BRB0765-BS1	LCS	27.680	25.000	1.0	ug/L	111	70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BRB0765	BRB0765-BS1	LCS	10.980	10.000		ug/L	110	76 - 114		
Toluene-d8 (Surrogate)	BRB0765	BRB0765-BS1	LCS	10.370	10.000		ug/L	104	88 - 110		
4-Bromofluorobenzene (Surrogate)	BRB0765	BRB0765-BS1	LCS	9.8000	10.000		ug/L	98.0	86 - 115		
Benzene	BRB0973	BRB0973-BS1	LCS	24.700	25.000	1.0	ug/L	98.8	70 - 130		
Toluene	BRB0973	BRB0973-BS1	LCS	25.920	25.000	1.0	ug/L	104	70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BRB0973	BRB0973-BS1	LCS	9.8600	10.000		ug/L	98.6	76 - 114		
Toluene-d8 (Surrogate)	BRB0973	BRB0973-BS1	LCS	10.190	10.000		ug/L	102	88 - 110		
4-Bromofluorobenzene (Surrogate)	BRB0973	BRB0973-BS1	LCS	10.070	10.000		ug/L	101	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	BRB0765	BRB0765-BLK1	ND	ug/L	1.0		
Ethylbenzene	BRB0765	BRB0765-BLK1	ND	ug/L	1.0		
Methyl t-butyl ether	BRB0765	BRB0765-BLK1	ND	ug/L	2.0		
Toluene	BRB0765	BRB0765-BLK1	ND	ug/L	1.0		
Total Xylenes	BRB0765	BRB0765-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BRB0765	BRB0765-BLK1	ND	ug/L	2.0		
t-Butyl alcohol	BRB0765	BRB0765-BLK1	ND	ug/L	10		
Diisopropyl ether	BRB0765	BRB0765-BLK1	ND	ug/L	2.0		
Ethanol	BRB0765	BRB0765-BLK1	ND	ug/L	1000		
Ethyl t-butyl ether	BRB0765	BRB0765-BLK1	ND	ug/L	2.0		
Total Purgeable Petroleum Hydrocarbons	BRB0765	BRB0765-BLK1	ND	ug/L	50		
1,2-Dichloroethane-d4 (Surrogate)	BRB0765	BRB0765-BLK1	114	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BRB0765	BRB0765-BLK1	98.3	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BRB0765	BRB0765-BLK1	98.3	%	86 - 115 (LCL - UCL)		
Benzene	BRB0973	BRB0973-BLK1	ND	ug/L	1.0		
Ethylbenzene	BRB0973	BRB0973-BLK1	ND	ug/L	1.0		
Methyl t-butyl ether	BRB0973	BRB0973-BLK1	ND	ug/L	2.0		
Toluene	BRB0973	BRB0973-BLK1	ND	ug/L	1.0		
Total Xylenes	BRB0973	BRB0973-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BRB0973	BRB0973-BLK1	ND	ug/L	2.0		
t-Butyl alcohol	BRB0973	BRB0973-BLK1	ND	ug/L	10		
Diisopropyl ether	BRB0973	BRB0973-BLK1	ND	ug/L	2.0		
Ethanol	BRB0973	BRB0973-BLK1	ND	ug/L	1000		
Ethyl t-butyl ether	BRB0973	BRB0973-BLK1	ND	ug/L	2.0		



LABORATORIES, INC.

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

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

Reported: 02/22/2008 8:11

## 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
Total Purgeable Petroleum Hydrocarbons	BRB0973	BRB0973-BLK1	ND	ug/L	50		
1,2-Dichloroethane-d4 (Surrogate)	BRB0973	BRB0973-BLK1	101	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BRB0973	BRB0973-BLK1	99.2	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BRB0973	BRB0973-BLK1	98.1	%	86 - 115 (LCL - UCL)		



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

Project: 0843  
Project Number: [none]  
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Reported: 02/22/2008 8:11

### Notes And Definitions

- MDL Method Detection Limit  
ND Analyte Not Detected at or above the reporting limit  
PQL Practical Quantitation Limit  
RPD Relative Percent Difference  
A01 PQL's and MDL's are raised due to sample dilution.  
A90 TPPH does not exhibit a "gasoline" pattern. TPPH is entirely due to MTBE.

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## SAMPLE RECEIPT FORM

Rev. No. 10 01/21/04

Page Of

Submission #: 0801816

Project Code:

TB Batch #

## SHIPPING INFORMATION

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

## SHIPPING CONTAINER

Ice Chest   
Box None   
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  NOIce Chest ID: BLUE  
Temperature: 23 °C  
Thermometer ID: 42Emissivity: 0.9  
Container: VIALDate/Time: 19.25  
Analyzer: INW

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
100ml TOTAL ORGANIC CARBON										
QT TOX										
PT CHEMICAL, OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A.4	A.U.	A.4	A.U.	A.4	A.U.	A.U.	A.U.	A.U.	A.U.
40ml VOA VIAL										
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 515										
QT EPA 515 TRAVEL BLANK										
100ml EPA 517										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT QAC										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments: \_\_\_\_\_

Sample Numbering Completed By: DML

Date/Time: 2/11/08 1454

(H:\DOCS\WP801\LAB\_DOCS\FORMS\SIAMREC2.WPD)

## BC LABORATORIES, INC.

4100 Atlas Court  
 Bakersfield, CA 93308  
 (661) 327-4911  
 FAX (661) 327-1918

CHK BY	DISTRIBUTION
<i>WJL</i>	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
SUB-OUT <input type="checkbox"/>	

## CHAIN OF CUSTODY

## Analysis Requested

Bill to: Conoco Phillips/ TRC		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/ oxygenates	BTEX/MTBE/OXYS BY 8260B	ETHANOL by 8260B	TPH -G by GC/MS	Turnaround Time Requested	
Address: 1629 Webster St		21 Technology Drive Irvine, CA 92618-2302 Attn: Anju Farfan											
City: Alameda		4-digit site#: 0843											
State: CA Zip:		Workorder # 02807-4509117943											
Conoco Phillips Mgr: Dennis Dettloff Sampler Name: Chris Facer		Project #: 154771											
Lab#	Sample Description	Field Point Name	Date & Time Sampled										
1	mw-1		2/8/08 0745	GW					X	X	X	STD	
-2	mw-2A		0700										
-3	mw-3		0800										
-4	mw-4		0730										
-5	mw-5		0620										
-6	mw-6		0635										

Comments:	Relinquished by: (Signature)	Received by:	Date & Time
GLOBAL ID:	<i>Chris Facer</i>	<i>Stored in Refrigerator</i>	2/8/08 0918
T0600102263	Relinquished by: (Signature) <i>Sue D. Lewis</i>	Received by: <i>Ross Dickey</i>	Date & Time 2/8/08 1400
	Relinquished by: (Signature) <i>Ross Dickey 2/8/08</i>	Received by: <i>R. Keeley</i>	Date & Time 2/8/08 1640

R. Keeley 2/8/08 1915 - J. M. Hall 2/8/08 1915

## **STATEMENTS**

### **Purge Water Disposal**

Non-hazardous groundwater produced during purging and sampling of monitoring wells was accumulated at TRC's groundwater monitoring facility at Concord, California, for transportation by a licensed carrier, 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 containing a significant amount of liquid-phase hydrocarbons was accumulated separately in drums for transportation and disposal by others.

### **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.