

RC 409



76 Broadway  
Sacramento, CA 95818  
phone 916.558.7878  
fax 916.558.7839

July 18, 2005

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

Re: **Document Transmittal**  
Fuel Leak Case  
76 Station #1156  
4276 MacArthur  
Oakland, CA

Dear Mr. Hwang:

Please find attached ATC's *Quarterly Summary Report - Second Quarter 2005, dated 7/18/05*, and TRC's *Quarterly Monitoring Report, dated 5/11/05* for the above referenced site. I declare, under penalty of perjury, that to the best of my knowledge the information and/or recommendations contained in the attached proposal or report are true and correct.

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

Sincerely,

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

Attachment  
cc: Dave Evans, ATC

RECEIVED

JUL 20 2005

ENVIRONMENTAL HEALTH SERVICES



6602 Owens Dr. Suite 100  
Pleasanton, California 94588  
[www.atc-enviro.com](http://www.atc-enviro.com)  
925.460.5300  
Fax 925.463.2559

R0409

July 18, 2005

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

**Re: Quarterly Summary Report – Second Quarter 2005**  
76 Service Station No. 1156 / WNO 1112  
ATC Project No. 75.75118.1112  
4276 MacArthur Blvd.  
Oakland, California

Dear Mr. Hwang:

On behalf of ConocoPhillips Company, ATC Associates Inc. is forwarding the quarterly summary report for the above referenced facility.

Sincerely,  
ATC ASSOCIATES INC.

A handwritten signature in black ink, appearing to read 'D. Evans', written over a horizontal line.

David A. Evans  
Senior Project Manager

A handwritten signature in black ink, appearing to read 'Janine Weber-Band', written over a horizontal line.

Janine Weber-Band, PhD, CEG #2286  
Principal Geologist



Attachment: Site Plan  
Quarterly Monitoring Report, prepared by TRC

Cc: Mr. Thomas Kosel – ConocoPhillips

Mr. Bob Hale, Alameda County Public Works Agency, Water Resources Section,  
951 Turner Court, Suite 300, Hayward, CA 94545

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JUL 20 2005

ENVIRONMENTAL HEALTH SERVICES

**QUARTERLY SUMMARY REPORT**  
**Second Quarter 2005**

76 Service Station No. 1156 / WNO 1112  
4276 MacArthur Blvd.  
Oakland, CA

City/County ID#      Oakland  
County:                Alameda

**SITE BACKGROUND AND ACTIVITY**

The site is located at the northeast corner of MacArthur Boulevard and High Street in Oakland, California, as shown on the Vicinity Map (Figure 1). Two 12,000-gallon gasoline underground storage tanks (USTs) are present in the southwestern portion of the site and two dispenser islands are present on the site, one to the northwest and one to the east of the USTs. A station building is present in the northern portion of the site. There are currently seven groundwater monitoring wells (MW-1 through MW-7) and one tank backfill well (TP-1) located at and in the vicinity of the site. Pertinent site features are shown on the Site Map (Figure 2). Properties in the immediate vicinity of the site are utilized for commercial and residential purposes.

In 1997, Pacific Environmental Group Inc. (PEG) advanced 5 soil/gas probes in the vicinity of the USTs, dispenser islands, and product lines to depths ranging from 3 to 15 feet bgs. Elevated soil vapor concentrations of TPHg, benzene, and MTBE were detected up to 4,700, 70, and 140 micrograms per liter ( $\mu\text{g/L}$ ), respectively. In 1998, Tosco Marketing Company (Tosco, now ConocoPhillips) removed one 280-gallon used-oil UST, and removed and replaced two 10,000-gallon gasoline USTs and associated piping and dispensers. The new USTs were installed in a separate excavation. TPH as diesel (TPHd), TPHg, benzene, and total recoverable petroleum hydrocarbons (TRPH) were detected in the soil sample from the used-oil UST cavity at a concentration of 78,000, 130, 0.55, and 8,400 milligrams per kilogram (mg/kg), respectively. Following the over-excavation of approximately 4.6 tons of soil from the used-oil UST cavity, concentrations of TPHd, TPHg, benzene, and TRPH were detected in soil samples collected from the used-oil UST cavity at concentrations up to 560, 81, 0.64, and 360 mg/kg, respectively. TPHg and benzene were detected in the soil samples from the gasoline UST cavity, dispenser islands, and product lines at concentrations up to 1,200 and 1.6 mg/kg, respectively. A groundwater sample collected from the gasoline UST cavity was reported to contain TPHg and MTBE at a concentration of 41,000 and 1,800  $\mu\text{g/L}$ , respectively. Benzene was not detected in the groundwater sample at or above the laboratory detection limit.

In 1999, Environmental Resolutions Inc. (ERI) performed a soil and groundwater evaluation including the installation of four on-site groundwater monitoring wells (MW-1 through MW-4). Soil samples collected from the borings at a depth of 10.5 feet bgs were reported to contain TPHg, benzene, and MTBE at concentrations up to 6,800, 2.6, and 0.71 mg/kg, respectively. The soil sample from MW-1, near the former used-oil UST, was additionally analyzed for TPHd and TRPH, which were detected at concentrations of 140 and 73 mg/kg, respectively. A deep sample

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(20.5 feet bgs) collected from MW-4 did not contain TPHg, benzene, or MTBE at or above the laboratory detection limit.

In July 2001, ERI installed a UST cavity backfill well (TP-1) and initiated monthly purging of groundwater from the UST cavity. Bi-weekly groundwater purging was conducted at the site on wells TP-1 and MW-1 from July 2001 through December 2004. In addition, during June 2004, the biweekly purging events included monitor well MW-7. Approximately 1,600 gallons were removed from well MW-7 with a cumulative total of approximately 476,000 gallons removed from the site through December 2004.

In August 2001, ERI installed three offsite monitor wells (MW-5 through MW-7). TPHg and MtBE were not detected in the soil samples and benzene was only detected in one soil sample (MW-7) at a concentration of 0.18 mg/kg.

Quarterly groundwater monitoring and sampling commenced July 1999 and is currently ongoing.

January 2005 – ATC became the new lead consultant for the site.

### **SENSITIVE RECEPTORS**

2001 – A GeoTracker database search was conducted which revealed four public water supply wells owned by the East Bay Regional Park District (Park District), within a ½ mile radius of the site. Representatives from the Park District reported having no knowledge or records of any wells located in this area and indicated that the wells may have belonged to the East Bay Municipal Utility District (EBMUD); however EBMUD were also reported to have no knowledge or records of any wells located in this area.

2001 – A Department of Water Resources (DWR) database search was conducted which revealed four water supply wells belonging to Mills College, within the search area. A representative from Mills College indicated that all wells associated with Mills College had been destroyed approximately ten years ago (1991) and that Mills College was now connected to a municipal water supply. The DRW search also revealed a well located at 3397 Arkansas Street, approximately 880 feet outside of the search radius. No other wells, surface water-bodies, or potentially sensitive environmental habitats were identified during ERI's field receptor search.

### **MONITORING AND SAMPLING**

The monitor well network is currently sampled on a quarterly basis. During the most recent groundwater monitoring event, conducted on March April 6, 2005, depth to groundwater elevations ranged from 1.15 feet in MW-6 to 5.96 feet in MW-7 below top of casing (TOC). The groundwater flow direction was toward the west at a gradient of 0.06 ft/ft, consistent with historic events. During the April 2005 sampling event, maximum detectable hydrocarbon concentrations were as follows: TPHg (85,000 ug/l in MW-1), benzene (8,400 ug/l in MW-1), and MtBE (17,000 ug/l in MW-7). The dissolved phase levels detected during the second quarter 2005 are consistent with the trends observed over the previous three quarters.

**REMEDIATION STATUS**

No active remediation presently ongoing at this site.

Approximately 1,350 tons of spoil and backfill were removed during the 1998 UST removal. As of December 23, 2004, approximately 476,015 gallons of groundwater have been purged from the site during bi-weekly groundwater purging events.

**CHARACTERIZATION STATUS**

Hydrocarbons in soil and groundwater are not delineated. Additional wells are proposed, pending approval, in the up- and down-gradient directions to assist in determining the hydrocarbon plume delineation. Additionally, a former Shell service station is located down gradient of the site and currently has elevated dissolved hydrocarbon and liquid phase hydrocarbons present in its onsite monitor wells.

Based on the receptor survey data and site conditions (soils less than 3 meters/residential land use and groundwater not considered a potential drinking water source), the Environmental Screening Levels (ESL) for this site are:

Compound	Groundwater (ug/l)	Wells Exceeding ESL	Soil ESL Residential (mg/kg)	Wells Exceeding ESL	Soil ESL Commercial (mg/kg)	Wells Exceeding ESL
Benzene	46	MW-1, MW-3, MW-4, MW-7	0.18	MW-1, MW-3, MW-4, MW7	0.38	---
Toluene	1300	MW-1, MW-3	9.3	MW-1	9.3	---
Ethyl benzene	2900	MW-1	32	MW-1	32	---
Xylenes	100	MW-1, MW-3	11	MW-1	11	---
MtBE	1800	MW-2, MW-7	2	---	5.6	---
TPH-g	500	MW-1, MW-2, MW-3, MW-4, MW-5, MW-7	10	MW-1	400	---

**RECENT CORRESPONDENCE**

ATC Associates submitted a Work Plan on May 24, 2005 for additional onsite and offsite subsurface investigation activity.

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**THIS QUARTER ACTIVITIES (Second Quarter 2005)**

TRC performed the quarterly monitoring and sampling event (April 6, 2005) at the site. The monitoring report dated May 11, 2005 is attached.

**WASTE DISPOSAL SUMMARY**

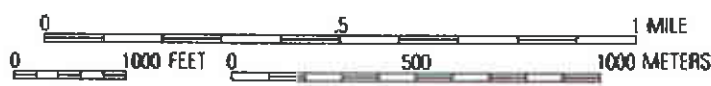
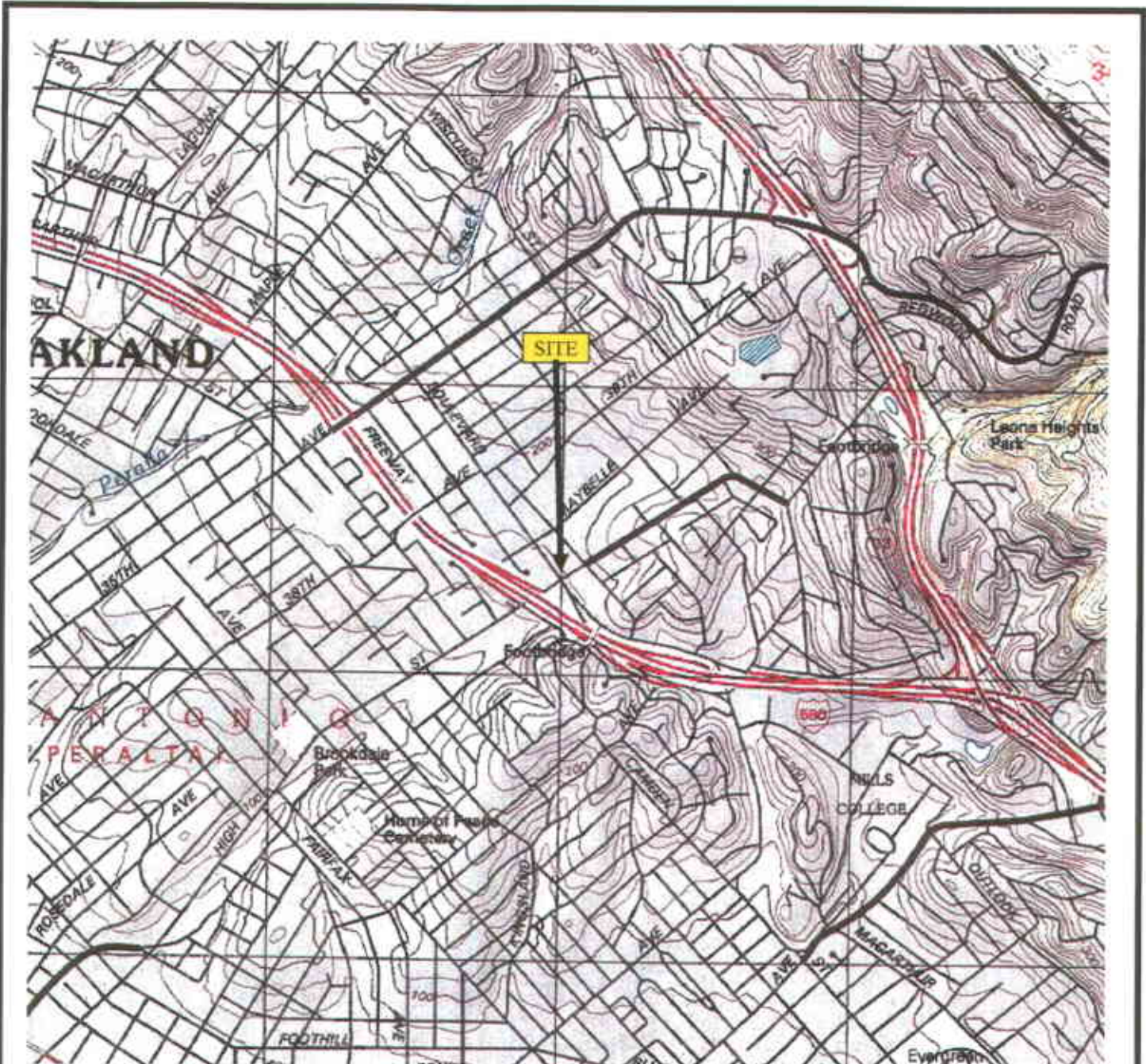
No waste was generated this quarter.

**NEXT QUARTER ACTIVITIES (Second Quarter 2005)**

1. The well network will be sampled and monitored by TRC.
2. ATC will submit a Work Plan for feasibility testing and preparation of a Corrective Action Plan.
3. ATC will perform a receptor survey and complete the proposed subsurface investigation, once approved by the Alameda County Department of Public Health.

**CONSULTANT:** ATC Associates Inc.





SOURCE: USGS OAKLAND WEST QUADRANGLE, CALIFORNIA (7.5 MINUTE SERIES) TOPOGRAPHIC MAP, OBTAINED FROM THE 2000 NATIONAL GEOGRAPHIC TOPO! SOFTWARE.

		
6602 Owens Drive, Suite 100 Pleasanton, CA 94588 (925) 460-5300		
PROJECT NO: 75.75118.1112		
DESIGNED BY: DE	SCALE: N/A	REVIEWED BY: DE
DRAWN BY: EC	DATE: 03/05	FILE: 1156 SITE VIC

FIGURE 1  
**SITE VICINITY MAP**  
  
 76 STATION 1156  
 4276 MACARTHUR BOULEVARD  
 OAKLAND, CALIFORNIA





# TRC

Customer-Focused Solutions

May 13, 2005

ConocoPhillips Company  
76 Broadway  
Sacramento, CA 95818

ATTN: MR. THOMAS H. KOSEL

SITE: 76 STATION 1156  
4276 MACARTHUR BOULEVARD  
OAKLAND, CALIFORNIA

RE: QUARTERLY MONITORING REPORT  
APRIL THROUGH JUNE 2005

Dear Mr. Kosel:

Please find enclosed our Quarterly Monitoring Report for 76 Station 1156, located 4276 MacArthur Boulevard, Oakland, California. If you have any questions regarding this report, please call us at (949) 753-0101.

Sincerely,

TRC



Anju Farfan  
QMS Operations Manager

CC: Mr. Dave Evans, ATC Associates Inc. (3 copies)

Enclosures  
20-0400/1156R07.QMS



Customer-Focused Solutions

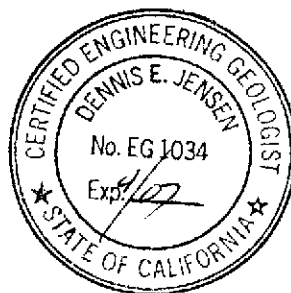
**QUARTERLY MONITORING REPORT  
APRIL THROUGH JUNE 2005**

76 STATION 1156  
4276 MacArthur Boulevard  
Oakland, California

Prepared For:

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

By:



Senior Project Geologist, Irvine Operations  
May 11, 2005

## LIST OF ATTACHMENTS

Summary Sheet	Summary of Gauging and Sampling Activities
Tables	Table Key Table 1: Current Fluid Levels and Selected Analytical Results Table 2: Historic Fluid Levels and Selected Analytical Results Table 3: Additional Analytical Results Table 3b: Additional Analytical Results Table 3c: Additional Analytical Results Table 3d: Additional Analytical Results Table 3e: Additional Analytical Results
Coordinated Event Data	<i>Shell Station</i> Well Concentrations
Figures	Figure 1: Vicinity Map Figure 2: Groundwater Elevation Contour Map Figure 3: Dissolved-Phase TPH-G Concentration Map Figure 4: Dissolved-Phase Benzene Concentration Map Figure 5: Dissolved-Phase MTBE Concentration Map
Graphs	Groundwater Elevations vs. Time Benzene Concentrations vs. Time MTBE 8260B Concentrations vs. Time
Field Activities	General Field Procedures Groundwater Sampling Field Notes
Laboratory Reports	Official Laboratory Reports Quality Control Reports Chain of Custody Records
Statements	Purge Water Disposal Limitations

**Summary of Gauging and Sampling Activities**  
**April 2005 through June 2005**  
**76 Station 1156**  
**4276 MacArthur**  
**Oakland, CA**

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

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

Date(s) of Gauging/Sampling Event: **04/06/05**

**Sample Points**

Groundwater wells: **4** onsite, **3** offsite      Wells gauged: **7**      Wells sampled: **7**  
Purging method: **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: **0.95 feet**      Maximum: **5.96 feet**  
Average groundwater elevation (relative to available local datum): **170.42 feet**  
Average change in groundwater elevation since previous event: **0.95 feet**  
Interpreted groundwater gradient and flow direction:  
    Current event: **0.06 ft/ft, west**  
    Previous event: **0.07 ft/ft, southwest (01/17/05)**

**Selected Laboratory Results**

Wells with detected **Benzene**: **3**      Wells above MCL (1.0 µg/l): **3**  
    Maximum reported benzene concentration: **8,400 µg/l (MW-1)**  
Wells with **TPH-G**      **6**      Maximum: **85,000 µg/l (MW-1)**  
Wells with **MTBE**      **6**      Maximum: **17,000 µg/l (MW-7)**

**Notes:**

## TABLE KEY

### STANDARD ABBREVIATIONS

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

### ANALYTES

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

### NOTES

1. Elevations are in feet above mean sea level. Depths are in feet below surveyed top-of-casing.
2. Groundwater elevations for wells with LPH are calculated as:  $\frac{\text{Surface Elevation} - \text{Measured Depth to Water} + (\text{Dp} \times \text{LPH Thickness})}{1}$ , 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 76 Station 1156 in October 2003. Historical data compiled prior to that time were provided by Gettler-Ryan Inc.

**Table 1**  
**CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**April 6, 2005**  
**76 Station 1156**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
<b>MW-1</b>		<b>(Screen Interval in feet: 5.0-25.0)</b>												
04/06/05	177.54	4.93	0.00	172.61	0.86	85000	--	8400	20000	3200	16000	ND<1300	580	
<b>MW-2</b>		<b>(Screen Interval in feet: 5.0-25.0)</b>												
04/06/05	173.50	4.50	0.00	169.00	1.20	3000	--	ND<20	ND<20	ND<20	ND<20	2500	3200	
<b>MW-3</b>		<b>(Screen Interval in feet: 5.0-25.0)</b>												
04/06/05	178.13	4.69	0.00	173.44	1.68	14000	--	420	1300	1000	3100	ND<250	200	
<b>MW-4</b>		<b>(Screen Interval in feet: 5.0-25.0)</b>												
04/06/05	178.96	2.90	0.00	176.06	1.66	630	--	81	9.6	16	41	ND<25	26	
<b>MW-5</b>		<b>(Screen Interval in feet: DNA)</b>												
04/06/05	169.18	0.95	0.00	168.23	0.54	830	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	600	760	
<b>MW-6</b>		<b>(Screen Interval in feet: DNA)</b>												
04/06/05	169.04	1.15	0.00	167.89	0.39	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<0.50	
<b>MW-7</b>		<b>(Screen Interval in feet: DNA)</b>												
04/06/05	171.64	5.96	0.00	165.68	0.34	13000	--	ND<100	ND<100	ND<100	ND<100	14000	17000	



**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**July 1999 Through April 2005**  
**76 Station 1156**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
<b>MW-1 (Screen Interval in feet: 5.0-25.0)</b>														
07/20/99	174.86	7.50	0.00	167.36	--	120000	--	11000	27000	3300	18000	ND	--	
09/28/99	174.86	8.75	0.00	166.11	-1.25	6020	--	1030	1040	68.5	412	321	333	
01/07/00	174.86	9.05	0.02	165.82	-0.29	72700	--	7410	13900	2070	9620	ND	--	GWE corrected
03/31/00	174.86	7.18	0.00	167.68	1.86	92000	--	10000	23000	3200	14000	ND	--	
07/14/00	174.86	7.68	0.00	167.18	-0.50	108000	--	8250	18700	3750	17800	ND	--	
10/03/00	174.86	7.99	0.00	166.87	-0.31	96000	--	8760	20000	3350	15600	ND	--	
01/03/01	174.86	9.18	0.00	165.68	-1.19	37000	--	5800	13000	1700	8100	2200	--	
04/04/01	174.86	8.05	0.00	166.81	1.13	86900	--	7780	18500	2470	11800	ND	481	
07/17/01	174.86	7.01	0.00	167.85	1.04	79000	--	5600	11000	2800	12000	ND	230	
10/03/01	177.54	7.89	0.00	169.65	1.80	99000	--	8200	18000	3000	16000	ND<2500	--	
10/05/01	177.54	7.91	0.00	169.63	-0.02	--	--	--	--	--	--	--	--	
01/28/02	177.54	5.98	0.00	171.56	1.93	110000	--	8900	19000	2600	12000	3000	440	
04/25/02	177.54	6.19	0.00	171.35	-0.21	93000	--	8100	18000	3000	15000	810	670	
07/18/02	177.54	6.99	0.00	170.55	-0.80	69000	--	5400	10000	2100	10000	ND<500	620	
10/07/02	177.54	7.73	0.00	169.81	-0.74	82000	--	9200	20000	2600	13000	1300	760	
01/06/03	177.54	5.48	0.00	172.06	2.25	82000	--	6500	18000	2700	11000	ND<1000	790	
04/07/03	177.54	6.30	0.00	171.24	-0.82	74000	--	7000	15000	2400	11000	1000	800	
07/07/03	177.54	6.47	0.00	171.07	-0.17	60000	--	6400	11000	2600	11000	600	530	
10/09/03	177.54	7.85	0.00	169.69	-1.38	91000	81000	8100	17000	3200	14000	--	660	Sampled for TPH-G by 8015M on 11/14/03.
01/14/04	177.54	6.69	0.00	170.85	1.16	98000	--	8000	21000	2600	15000	ND<1300	ND<800	
04/28/04	177.54	6.43	0.00	171.11	0.26	93000	--	9000	20000	1300	10000	1400	560	
07/12/04	177.54	7.44	0.00	170.10	-1.01	57000	--	6900	7200	1600	580	490	440	
10/25/04	177.54	7.54	0.00	170.00	-0.10	66000	--	7300	19000	2700	14000	ND<1300	330	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**July 1999 Through April 2005**  
**76 Station 1156**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
<b>MW-1 continued</b>														
01/17/05	177.54	5.79	0.00	171.75	1.75	86000	--	8600	21000	3200	15000	ND<1300	570	
04/06/05	177.54	4.93	0.00	172.61	0.86	85000	--	8400	20000	3200	16000	ND<1300	580	
<b>MW-2 (Screen Interval in feet: 5.0-25.0)</b>														
07/20/99	173.01	5.40	--	167.61	--	ND	--	ND	ND	ND	ND	4500	11000	
09/28/99	173.01	5.60	0.00	167.41	-0.20	1390	--	124	ND	62.9	43.1	5280	6150	
01/07/00	173.01	5.92	0.00	167.09	-0.32	1450	--	99	ND	23.8	16	33100	--	
03/31/00	173.01	5.23	0.00	167.78	0.69	ND	--	42	ND	ND	ND	17000	--	
07/14/00	173.01	5.52	0.00	167.49	-0.29	ND	--	44.7	ND	ND	ND	66500	--	
10/03/00	173.01	6.04	0.00	166.97	-0.52	ND	--	56.7	ND	ND	ND	57500	--	
01/03/01	173.01	6.42	0.00	166.59	-0.38	ND	--	ND	ND	ND	ND	49000	--	
04/04/01	173.01	6.14	0.00	166.87	0.28	ND	--	ND	ND	ND	ND	38700	37800	
07/17/01	173.01	5.30	0.00	167.71	0.84	ND	--	ND	ND	ND	ND	65000	56000	
10/03/01	173.50	7.38	0.00	166.12	-1.59	ND<250	--	2.7	ND<2.5	ND<2.5	ND<2.5	14000	18000	
01/28/02	173.50	5.68	0.00	167.82	--	ND<250	--	2.5	4.4	2.8	7.4	11000	10000	
04/25/02	173.50	5.82	0.00	167.68	-0.14	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	8400	8100	
07/18/02	173.50	6.90	0.00	166.60	-1.08	ND<500	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	4300	8800	
10/07/02	173.50	7.54	0.00	165.96	-0.64	4300	--	ND<10	27	21	75	7100	5900	
01/06/03	173.50	6.79	0.00	166.71	0.75	5900	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	31000	35000	
04/07/03	173.50	6.49	0.00	167.01	0.30	1500	--	ND<10	14	11	38	2000	1500	
07/07/03	173.50	6.72	0.00	166.78	-0.23	ND<2500	--	ND<25	ND<25	ND<25	ND<25	5500	8300	
10/09/03	173.50	7.16	0.00	166.34	-0.44	3500	ND<5000	ND<50	ND<50	ND<50	ND<100	--	8500	Sampled for TPH-G by 8015M on 11/14/03.
01/14/04	173.50	5.53	0.00	167.97	1.63	3200	--	ND<25	ND<25	ND<25	ND<25	2600	3200	
04/28/04	173.50	5.21	0.00	168.29	0.32	22000	--	ND<3	9.2	ND<3	ND<6	35000	22000	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**July 1999 Through April 2005**  
**76 Station 1156**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
<b>MW-2 continued</b>														
07/12/04	173.50	5.83	0.00	167.67	-0.62	1700	--	3.8	18	2.6	16	3000	3000	
10/25/04	173.50	6.89	0.00	166.61	-1.06	3400	--	ND<25	ND<25	ND<25	ND<25	1800	1600	
01/17/05	173.50	5.70	0.00	167.80	1.19	1700	--	ND<10	ND<10	ND<10	ND<10	1600	1500	
04/06/05	173.50	4.50	0.00	169.00	1.20	3000	--	ND<20	ND<20	ND<20	ND<20	2500	3200	
<b>MW-3 (Screen Interval in feet: 5.0-25.0)</b>														
07/20/99	178.44	8.50	--	169.94	--	1000	--	76	52	79	76	330	--	
09/28/99	178.44	8.31	0.00	170.13	0.19	1860	--	174	95.4	71.8	135	443	288	
01/07/00	178.44	8.56	0.00	169.88	-0.25	28400	--	2450	3090	1560	3910	1940	--	
03/31/00	178.44	8.42	0.00	170.02	0.14	26000	--	1300	2900	2600	3500	2800	--	
07/14/00	178.44	8.61	0.00	169.83	-0.19	24500	--	1850	2630	2750	3900	548	--	
10/03/00	178.44	9.14	0.00	169.30	-0.53	22000	--	1910	2020	2400	2680	965	--	
01/03/01	178.44	9.06	0.00	169.38	0.08	14000	--	1600	1100	2300	1400	3300	--	
04/04/01	178.44	8.98	0.00	169.46	0.08	19600	--	1150	1470	2100	1820	1050	450	
07/17/01	178.44	7.46	0.00	170.98	1.52	26000	--	1500	2100	2100	3400	ND	350	
10/03/01	178.13	9.81	0.00	168.32	-2.66	22000	--	830	1900	1700	3000	ND<1000	--	
01/28/02	178.13	7.39	0.00	170.74	--	30000	--	880	2600	1800	4300	3200	210	
04/25/02	178.13	7.86	0.00	170.27	-0.47	18000	--	500	2000	1300	3800	500	260	
07/18/02	178.13	8.83	0.00	169.30	-0.97	37000	--	1800	3800	2200	8000	ND<250	270	
10/07/02	178.13	9.71	0.00	168.42	-0.88	26000	--	600	2000	1800	6400	ND<120	ND<200	
01/06/03	178.13	7.40	0.00	170.73	2.31	27000	--	800	2100	2000	6400	440	110	
04/07/03	178.13	8.17	0.00	169.96	-0.77	28000	--	660	2200	1900	6300	440	100	
07/07/03	178.13	8.35	0.00	169.78	-0.18	33000	--	1200	2500	2700	8300	280	100	
10/09/03	178.13	9.39	0.00	168.74	-1.04	3800	6000	120	260	390	1200	--	190	Sampled for TPH-G by 8015M on 11/14/03.

Sampled for TPH-G by 8015M on 11/14/03.

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**July 1999 Through April 2005**  
**76 Station 1156**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
<b>MW-3 continued</b>														
01/14/04	178.13	6.86	0.00	171.27	2.53	5100	--	120	240	310	720	190	230	
04/28/04	178.13	6.63	0.00	171.50	0.23	7300	--	250	440	580	1300	740	240	
07/12/04	178.13	7.41	0.00	170.72	-0.78	5500	--	350	310	120	350	180	100	
10/25/04	178.13	8.81	0.00	169.32	-1.40	3300	--	96	140	270	490	94	260	
01/17/05	178.13	6.37	0.00	171.76	2.44	3400	--	150	270	360	750	55	200	
04/06/05	178.13	4.69	0.00	173.44	1.68	14000	--	420	1300	1000	3100	ND<250	200	
<b>MW-4 (Screen Interval in feet: 5.0-25.0)</b>														
07/20/99	179.10	7.40	--	171.70	--	69	--	2.7	0.77	ND	7.1	100	--	
09/28/99	179.10	7.19	0.00	171.91	0.21	4050	--	1250	72	51.3	133	416	459	
01/07/00	179.10	8.98	0.00	170.12	-1.79	7010	--	2260	167	271	276	764	--	
03/31/00	179.10	7.26	0.00	171.84	1.72	5500	--	1800	230	330	400	1000	--	
07/14/00	179.10	7.67	0.00	171.43	-0.41	7940	--	2810	332	450	247	1530	--	
10/03/00	179.10	8.12	0.00	170.98	-0.45	11400	--	3110	437	519	816	1040	--	
01/03/01	179.10	9.10	0.00	170.00	-0.98	8600	--	2500	340	480	960	850	--	
04/04/01	179.10	8.63	0.00	170.47	0.47	9950	--	2380	126	416	725	1140	819	
07/17/01	179.10	6.49	0.00	172.61	2.14	10000	--	2300	110	410	800	1200	900	
10/03/01	178.96	7.01	0.00	171.95	-0.66	7800	--	2100	85	380	390	580	820	
01/28/02	178.96	6.21	0.00	172.75	--	12000	--	2100	130	350	670	1100	500	
04/25/02	178.96	5.49	0.00	173.47	0.72	3300	--	1300	42	270	250	680	600	
07/18/02	178.96	8.28	0.00	170.68	-2.79	4800	--	1300	71	290	220	530	760	
10/07/02	178.96	7.49	0.00	171.47	0.79	5100	--	1400	110	330	380	650	540	
01/06/03	178.96	6.36	0.00	172.60	1.13	5600	--	1100	57	260	320	370	520	
04/07/03	178.96	6.24	0.00	172.72	0.12	5100	--	1100	55	190	370	550	420	
07/07/03	178.96	6.43	0.00	172.53	-0.19	3000	--	920	28	170	330	480	450	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**July 1999 Through April 2005**  
**76 Station 1156**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
<b>MW-4 continued</b>														
10/09/03	178.96	7.97	0.00	170.99	-1.54	530	700	100	2.2	5.4	14	--	270	Sampled for TPH-G by 8015M on 11/14/03.
01/14/04	178.96	6.30	0.00	172.66	1.67	530	--	88	4.1	9.9	11	150	180	
04/28/04	178.96	5.68	0.00	173.28	0.62	1200	--	200	5.3	21	13	490	310	
07/12/04	178.96	6.48	0.00	172.48	-0.80	3600	--	1000	14	260	72	710	470	
10/25/04	178.96	6.85	0.00	172.11	-0.37	490	--	34	ND<2.5	ND<2.5	ND<2.5	200	170	
01/17/05	178.96	4.56	0.00	174.40	2.29	620	--	100	2.6	15	8.0	240	200	
04/06/05	178.96	2.90	0.00	176.06	1.66	630	--	81	9.6	16	41	ND<25	26	
<b>MW-5 (Screen Interval in feet: DNA)</b>														
10/03/01	169.18	2.81	0.00	166.37	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1800	2100	Sampled for TPH-G by 8015M on 11/14/03.
01/28/02	169.18	1.88	0.00	167.30	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	650	550	
04/25/02	169.18	1.99	0.00	167.19	-0.11	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2200	2400	
07/18/02	169.18	2.49	0.00	166.69	-0.50	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	530	690	
10/07/02	169.18	2.80	0.00	166.38	-0.31	140	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	300	330	
01/06/03	169.18	1.86	0.00	167.32	0.94	120	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	410	350	
04/07/03	169.18	2.15	0.00	167.03	-0.29	220	--	0.53	ND<0.50	ND<0.50	ND<0.50	450	420	
07/07/03	169.18	2.26	0.00	166.92	-0.11	120	--	ND<1.2	ND<1.2	ND<1.2	ND<1.2	220	200	
10/09/03	169.18	2.72	0.00	166.46	-0.46	560	210	ND<1.0	ND<1.0	ND<1.0	ND<2.0	--	290	
01/14/04	169.18	2.00	0.00	167.18	0.72	560	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5	670	760	
04/28/04	169.18	2.01	0.00	167.17	-0.01	760	--	ND<0.3	1.8	ND<0.3	ND<0.6	1200	790	
07/12/04	169.18	2.56	0.00	166.62	-0.55	96	--	1.8	3.3	0.54	3.6	2.8	ND<0.5	
10/25/04	169.18	2.43	0.00	166.75	0.13	1100	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	780	1100	
01/17/05	169.18	1.49	0.00	167.69	0.94	720	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	530	550	
04/06/05	169.18	0.95	0.00	168.23	0.54	830	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	600	760	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**July 1999 Through April 2005**  
**76 Station 1156**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
<b>MW-6 (Screen Interval in feet: DNA)</b>														
10/03/01	169.04	2.87	0.00	166.17	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	200	270	
01/28/02	169.04	1.82	0.00	167.22	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
04/25/02	169.04	2.01	0.00	167.03	-0.19	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
07/18/02	169.04	2.44	0.00	166.60	-0.43	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	ND<2.0	
10/07/02	169.04	2.72	0.00	166.32	-0.28	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	ND<2.0	
01/06/03	169.04	1.90	0.00	167.14	0.82	ND<50	--	0.62	1.2	1.2	3.5	ND<2.0	ND<2.0	
04/07/03	169.04	2.02	0.00	167.02	-0.12	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	46	46	
07/07/03	169.04	2.21	0.00	166.83	-0.19	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	ND<2.0	
10/09/03	169.04	2.71	0.00	166.33	-0.50	ND<50	ND<50	0.95	3.0	1.4	5.5	--	ND<2.0	Sampled for TPH-G by 8015M on 11/14/03.
01/14/04	169.04	2.00	0.00	167.04	0.71	ND<50	--	ND<0.50	0.57	ND<0.50	0.64	ND<5.0	ND<2.0	
04/28/04	169.04	2.18	0.00	166.86	-0.18	ND<50	--	0.39	0.78	ND<0.3	ND<0.6	ND<1	ND<0.5	
07/12/04	169.04	2.69	0.00	166.35	-0.51	ND<50	--	ND<0.3	ND<0.3	ND<0.3	ND<0.6	6.4	ND<0.5	
10/25/04	169.04	2.46	0.00	166.58	0.23	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	0.57	
01/17/05	169.04	1.54	0.00	167.50	0.92	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<0.50	
04/06/05	169.04	1.15	0.00	167.89	0.39	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<0.50	
<b>MW-7 (Screen Interval in feet: DNA)</b>														
10/03/01	171.64	7.62	0.00	164.02	--	10000	--	210	ND<50	ND<50	800	35000	40000	
01/28/02	171.64	7.21	0.00	164.43	--	ND<1000	--	ND<10	ND<10	ND<10	ND<10	42000	38000	
04/25/02	171.64	7.25	0.00	164.39	-0.04	ND<5000	--	660	ND<50	ND<50	ND<50	42000	45000	
07/18/02	171.64	8.12	0.00	163.52	-0.87	ND<5000	--	130	ND<50	ND<50	ND<50	51000	53000	
10/07/02	171.64	7.71	0.00	163.93	0.41	18000	--	ND<50	ND<50	ND<50	ND<50	33000	38000	
01/06/03	171.64	7.63	0.00	164.01	0.08	410	--	0.61	1.0	0.89	2.9	3900	3100	
04/07/03	171.64	7.58	0.00	164.06	0.05	13000	--	ND<20	ND<20	ND<20	ND<20	32000	28000	



**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**July 1999 Through April 2005**  
**76 Station 1156**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
<b>MW-7 continued</b>														
07/07/03	171.64	7.56	0.00	164.08	0.02	990	--	8.2	ND<0.50	1.2	ND<0.50	36000	45000	
10/09/03	171.64	7.72	0.00	163.92	-0.16	6800	ND<13000	ND<130	ND<130	ND<130	ND<250	--	20000	Sampled for TPH-G by 8015M on 11/14/03.
01/14/04	171.64	6.97	0.00	164.67	0.75	19000	--	ND<100	ND<100	ND<100	ND<100	20000	25000	
04/28/04	171.64	8.70	0.00	162.94	-1.73	19000	--	ND<3	ND<3	ND<3	ND<6	30000	21000	
07/12/04	171.64	9.44	0.00	162.20	-0.74	12000	--	28	14	330	200	12000	11000	
10/25/04	171.64	7.23	0.00	164.41	2.21	28000	--	ND<250	ND<250	ND<250	ND<250	13000	14000	
01/17/05	171.64	6.30	0.00	165.34	0.93	15000	--	ND<100	ND<100	ND<100	ND<100	17000	16000	
04/06/05	171.64	5.96	0.00	165.68	0.34	13000	--	ND<100	ND<100	ND<100	ND<100	14000	17000	

**Table 3**  
**ADDITIONAL ANALYTICAL RESULTS**  
**76 Station 1156**

Date Sampled	TPH-D (µg/l)	cis-1,3-dichloro-propene (µg/l)	trans-1,3-Dichloro-propene (µg/l)	1,4-Dichloro-benzene (µg/l)	EDC (µg/l)	Chloro-benzene (µg/l)	Dibromo-chloro-methane (µg/l)	PCE (µg/l)	cis-1,2-Dichloro-ethene (µg/l)	trans-1,2-Dichloro-ethene (µg/l)	1,3-Dichloro-benzene (µg/l)	Carbon tetra-chloride (µg/l)	Chloro-form (µg/l)	1,1,1-Trichloro-ethane (µg/l)	Bromo-methane (µg/l)
<b>MW-1</b>															
07/20/99	16000	--	--	--	--	12	--	--	3.6	--	--	--	--	--	--
09/28/99	2410	--	--	--	--	--	--	--	--	--	--	--	--	--	--
01/07/00	7870	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03/31/00	3600	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/14/00	8580	--	--	--	--	--	--	334	--	--	--	--	--	--	--
10/03/00	9260	--	--	--	--	--	--	--	--	--	--	--	--	--	--
01/03/01	11000	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/04/01	14000	--	--	--	ND	5.6	--	--	3.4	--	--	--	--	--	--
07/17/01	2200	--	--	--	ND	--	--	--	--	--	--	--	--	--	--
10/05/01	13000	--	--	--	--	--	--	--	--	--	--	--	--	--	--
01/28/02	4400	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/25/02	9000	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/18/02	9200	--	--	1.3	ND<10	5.9	--	ND<0.60	1.3	--	--	--	--	--	--
10/07/02	3400	--	--	--	ND<200	--	--	--	--	--	--	--	--	--	--
01/06/03	5100	--	--	--	ND<400	--	--	--	--	--	--	--	--	--	--
04/07/03	2800	--	--	--	ND<200	--	--	--	--	--	--	--	--	--	--
07/07/03	7000	--	--	--	ND<500	ND<120	--	ND<120	ND<120	--	--	--	--	--	--
10/09/03	4300	--	--	--	ND<400	--	--	--	--	--	--	--	--	--	--
01/14/04	6200	--	--	--	ND<800	--	--	--	--	--	--	--	--	--	--
04/28/04	--	--	--	--	ND<50	--	--	--	--	--	--	--	--	--	--
07/12/04	270	ND<10	ND<10	ND<2	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<2	ND<10	ND<10	ND<10	ND<20
10/25/04	5100	--	--	--	ND<200	--	--	--	--	--	--	--	--	--	--
01/17/05	6400	--	--	--	ND<200	--	--	--	--	--	--	--	--	--	--
04/06/05	2800	--	--	--	ND<100	--	--	--	--	--	--	--	--	--	--
<b>MW-2</b>															
04/04/01	--	--	--	--	ND	--	--	--	--	--	--	--	--	--	--

**Table 3**  
**ADDITIONAL ANALYTICAL RESULTS**  
**76 Station 1156**

Date Sampled	TPH-D (µg/l)	cis-1,3-dichloro-propene (µg/l)	trans-1,3-Dichloro-propene (µg/l)	1,4-Dichloro-benzene (µg/l)	EDC (µg/l)	Chloro-benzene (µg/l)	Dibromo-chloro-methane (µg/l)	PCE (µg/l)	cis-1,2-Dichloro-ethene (µg/l)	trans-1,2-Dichloro-ethene (µg/l)	1,3-Dichloro-benzene (µg/l)	Carbon tetra-chloride (µg/l)	Chloro-form (µg/l)	1,1,1-Trichloro-ethane (µg/l)	Bromo-methane (µg/l)
<b>MW-2 continued</b>															
07/17/01	--	--	--	--	ND	--	--	--	--	--	--	--	--	--	--
07/18/02	--	--	--	--	ND<100	--	--	--	--	--	--	--	--	--	--
10/07/02	--	--	--	--	ND<400	--	--	--	--	--	--	--	--	--	--
01/06/03	--	--	--	--	ND<1000	--	--	--	--	--	--	--	--	--	--
04/07/03	--	--	--	--	ND<40	--	--	--	--	--	--	--	--	--	--
07/07/03	--	--	--	--	ND<100	--	--	--	--	--	--	--	--	--	--
10/09/03	--	--	--	--	ND<200	--	--	--	--	--	--	--	--	--	--
01/14/04	--	--	--	--	ND<50	--	--	--	--	--	--	--	--	--	--
04/28/04	--	--	--	--	ND<0.5	--	--	--	--	--	--	--	--	--	--
07/12/04	--	--	--	--	ND<3	--	--	--	--	--	--	--	--	--	--
10/25/04	--	--	--	--	ND<13	--	--	--	--	--	--	--	--	--	--
01/17/05	--	--	--	--	ND<13	--	--	--	--	--	--	--	--	--	--
04/06/05	--	--	--	--	ND<25	--	--	--	--	--	--	--	--	--	--
<b>MW-3</b>															
04/04/01	--	--	--	--	ND	--	--	--	--	--	--	--	--	--	--
07/17/01	--	--	--	--	ND	--	--	--	--	--	--	--	--	--	--
07/18/02	--	--	--	--	ND<5.0	--	--	--	--	--	--	--	--	--	--
10/07/02	--	--	--	--	ND<200	--	--	--	--	--	--	--	--	--	--
01/06/03	--	--	--	--	ND<80	--	--	--	--	--	--	--	--	--	--
04/07/03	--	--	--	--	ND<80	--	--	--	--	--	--	--	--	--	--
07/07/03	--	--	--	--	ND<40	--	--	--	--	--	--	--	--	--	--
10/09/03	--	--	--	--	ND<20	--	--	--	--	--	--	--	--	--	--
01/14/04	--	--	--	--	ND<20	--	--	--	--	--	--	--	--	--	--
04/28/04	--	--	--	--	ND<3	--	--	--	--	--	--	--	--	--	--
07/12/04	--	--	--	--	ND<10	--	--	--	--	--	--	--	--	--	--
10/25/04	--	--	--	--	ND<2.5	--	--	--	--	--	--	--	--	--	--

**Table 3**  
**ADDITIONAL ANALYTICAL RESULTS**  
**76 Station 1156**

Date Sampled	TPH-D (µg/l)	cis-1,3-dichloro-propene (µg/l)	trans-1,3-Dichloro-propene (µg/l)	1,4-Dichloro-benzene (µg/l)	EDC (µg/l)	Chloro-benzene (µg/l)	Dibromo-chloro-methane (µg/l)	PCE (µg/l)	cis-1,2-Dichloro-ethene (µg/l)	trans-1,2-Dichloro-ethene (µg/l)	1,3-Dichloro-benzene (µg/l)	Carbon tetra-chloride (µg/l)	Chloro-form (µg/l)	1,1,1-Trichloro-ethane (µg/l)	Bromo-methane (µg/l)
<b>MW-3 continued</b>															
01/17/05	--	--	--	--	ND<2.5	--	--	--	--	--	--	--	--	--	--
04/06/05	--	--	--	--	ND<10	--	--	--	--	--	--	--	--	--	--
<b>MW-4</b>															
04/04/01	--	--	--	--	ND	--	--	--	--	--	--	--	--	--	--
07/17/01	--	--	--	--	ND	--	--	--	--	--	--	--	--	--	--
07/18/02	--	--	--	--	49	--	--	--	--	--	--	--	--	--	--
10/07/02	--	--	--	--	ND<200	--	--	--	--	--	--	--	--	--	--
01/06/03	--	--	--	--	ND<20	--	--	--	--	--	--	--	--	--	--
04/07/03	--	--	--	--	ND<20	--	--	--	--	--	--	--	--	--	--
07/07/03	--	--	--	--	ND<20	--	--	--	--	--	--	--	--	--	--
10/09/03	--	--	--	--	ND<4.0	--	--	--	--	--	--	--	--	--	--
01/14/04	--	--	--	--	6.5	--	--	--	--	--	--	--	--	--	--
04/28/04	--	--	--	--	ND<0.5	--	--	--	--	--	--	--	--	--	--
07/12/04	--	--	--	--	14	--	--	--	--	--	--	--	--	--	--
10/25/04	--	--	--	--	2.0	--	--	--	--	--	--	--	--	--	--
01/17/05	--	--	--	--	3.6	--	--	--	--	--	--	--	--	--	--
04/06/05	--	--	--	--	ND<2.5	--	--	--	--	--	--	--	--	--	--
<b>MW-5</b>															
07/18/02	--	--	--	--	ND<2.0	--	--	--	--	--	--	--	--	--	--
10/07/02	--	--	--	--	ND<2.0	--	--	--	--	--	--	--	--	--	--
01/06/03	ND<50	--	--	--	ND<2.0	ND<0.50	--	ND<0.50	ND<0.50	--	--	--	--	--	--
04/07/03	--	--	--	--	ND<10	--	--	--	--	--	--	--	--	--	--
07/07/03	--	--	--	--	ND<4.0	--	--	--	--	--	--	--	--	--	--
10/09/03	--	--	--	--	ND<4.0	--	--	--	--	--	--	--	--	--	--
01/14/04	--	--	--	--	ND<40	--	--	--	--	--	--	--	--	--	--
04/28/04	--	--	--	--	1.8	--	--	--	--	--	--	--	--	--	--

**Table 3**  
**ADDITIONAL ANALYTICAL RESULTS**  
**76 Station 1156**

Date Sampled	TPH-D (µg/l)	cis-1,3-dichloro-propene (µg/l)	trans-1,3-Dichloro-propene (µg/l)	1,4-Dichloro-benzene (µg/l)	EDC (µg/l)	Chloro-benzene (µg/l)	Dibromo-chloro-methane (µg/l)	PCE (µg/l)	cis-1,2-Dichloro-ethene (µg/l)	trans-1,2-Dichloro-ethene (µg/l)	1,3-Dichloro-benzene (µg/l)	Carbon tetra-chloride (µg/l)	Chloro-form (µg/l)	1,1,1-Trichloro-ethane (µg/l)	Bromo-methane (µg/l)
<b>MW-5 continued</b>															
07/12/04	--	--	--	--	0.76	--	--	--	--	--	--	--	--	--	--
10/25/04	--	--	--	--	ND<50	--	--	--	--	--	--	--	--	--	--
01/17/05	--	--	--	--	ND<2.5	--	--	--	--	--	--	--	--	--	--
04/06/05	--	--	--	--	1.4	--	--	--	--	--	--	--	--	--	--
<b>MW-6</b>															
07/18/02	--	--	--	--	ND<2.0	--	--	--	--	--	--	--	--	--	--
10/07/02	--	--	--	--	ND<2.0	--	--	--	--	--	--	--	--	--	--
01/06/03	--	--	--	--	ND<2.0	--	--	--	--	--	--	--	--	--	--
04/07/03	--	--	--	--	ND<2.0	--	--	--	--	--	--	--	--	--	--
07/07/03	--	--	--	--	ND<2.0	--	--	--	--	--	--	--	--	--	--
10/09/03	--	--	--	--	ND<2.0	--	--	--	--	--	--	--	--	--	--
01/14/04	--	--	--	--	ND<2.0	--	--	--	--	--	--	--	--	--	--
04/28/04	--	--	--	--	ND<0.5	--	--	--	--	--	--	--	--	--	--
07/12/04	--	--	--	--	ND<0.5	--	--	--	--	--	--	--	--	--	--
10/25/04	--	--	--	--	ND<0.50	--	--	--	--	--	--	--	--	--	--
01/17/05	--	--	--	--	ND<0.50	--	--	--	--	--	--	--	--	--	--
04/06/05	--	--	--	--	ND<0.50	--	--	--	--	--	--	--	--	--	--
<b>MW-7</b>															
07/18/02	--	--	--	--	ND<20	--	--	--	--	--	--	--	--	--	--
10/07/02	--	--	--	--	ND<400	--	--	--	--	--	--	--	--	--	--
01/06/03	ND<50	--	--	--	ND<200	ND<50	--	ND<50	ND<50	--	--	--	--	--	--
04/07/03	--	--	--	--	ND<800	--	--	--	--	--	--	--	--	--	--
07/07/03	--	--	--	--	ND<400	--	--	--	--	--	--	--	--	--	--
10/09/03	--	--	--	--	ND<500	--	--	--	--	--	--	--	--	--	--
01/14/04	--	--	--	--	ND<800	--	--	--	--	--	--	--	--	--	--
04/28/04	--	--	--	--	6.8	--	--	--	--	--	--	--	--	--	--

**Table 3**  
**ADDITIONAL ANALYTICAL RESULTS**  
**76 Station 1156**

Date Sampled	TPH-D (µg/l)	cis-1,3-dichloropropene (µg/l)	trans-1,3-Dichloropropene (µg/l)	1,4-Dichlorobenzene (µg/l)	EDC (µg/l)	Chlorobenzene (µg/l)	Dibromochloromethane (µg/l)	PCE (µg/l)	cis-1,2-Dichloroethene (µg/l)	trans-1,2-Dichloroethene (µg/l)	1,3-Dichlorobenzene (µg/l)	Carbon tetrachloride (µg/l)	Chloroform (µg/l)	1,1,1-Trichloroethane (µg/l)	Bromomethane (µg/l)
MW-7 continued															
07/12/04	--	--	--	--	5.1	--	--	--	--	--	--	--	--	--	--
10/25/04	--	--	--	--	ND<50	--	--	--	--	--	--	--	--	--	--
01/17/05	--	--	--	--	ND<50	--	--	--	--	--	--	--	--	--	--
04/06/05	--	--	--	--	6.4	--	--	--	--	--	--	--	--	--	--



**Table 3 b**  
**ADDITIONAL ANALYTICAL RESULTS**  
**76 Station 1156**

Date Sampled	Chloro- methane (µg/l)	Chloro- ethane (µg/l)	Vinyl chloride (µg/l)	Methylene chloride (µg/l)	Bromoform (µg/l)	Bromo- dichloro- methane (µg/l)	1,1- Dichloro- ethane (µg/l)	1,1- Dichloro- ethene (µg/l)	Trichloro- fluoro- methane (µg/l)	Trichloro- trifluoro- ethane (µg/l)	1,2- Dichloro- propane (µg/l)	1,1,2- Trichloro- ethane (µg/l)	TCE (µg/l)	1,1,2,2- Tetrachloro- ethane (µg/l)	1,2- Dichloro- benzene (µg/l)
<b>MW-1</b>															
07/20/99	--	--	--	--	--	--	2.0	--	--	--	0.92	--	--	--	3.9
03/31/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.2
04/04/01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.6
07/17/01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	18
07/18/02	--	1.1	--	--	--	--	--	--	--	--	--	--	--	--	5.8
07/12/04	ND<10	ND<10	ND<10	ND<20	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<2

**Table 3 c**  
**ADDITIONAL ANALYTICAL RESULTS**  
**76 Station 1156**

Date Sampled	Dichloro-difluoromethane (µg/l)	n-Propylbenzene (µg/l)	EDB (µg/l)	1,3,5-Trimethylbenzene (µg/l)	1,2,4-Trichlorobenzene (µg/l)	HCBD (µg/l)	1,2,4-Trimethylbenzene (µg/l)	Naphthalene (µg/l)	TAME 8260B (µg/l)	TBA 8260B (µg/l)	DIPE 8260B (µg/l)	ETBE 8260B (µg/l)	Ethanol 8015B (mg/l)	Acenaphthylene (µg/l)	Acenaphthene (µg/l)
<b>MW-1</b>															
07/20/99	--	--	--	--	--	--	--	600	--	--	--	--	--	--	--
09/28/99	--	--	--	318	--	--	1240	534	ND	ND	ND	ND	--	--	--
01/07/00	--	371	--	597	--	--	2210	1050	--	--	--	--	--	--	--
03/31/00	--	--	--	--	--	--	--	140	--	--	--	--	--	--	--
07/14/00	--	--	--	--	--	--	--	690	--	--	--	--	--	--	--
10/03/00	--	--	--	--	--	--	--	361	--	--	--	--	--	--	--
01/03/01	--	--	--	--	--	--	--	400	--	--	--	--	--	--	--
04/04/01	--	--	ND	--	--	--	--	490	ND	ND	ND	ND	--	--	--
07/17/01	--	--	ND	--	--	--	--	740	ND	ND	ND	ND	--	--	--
07/18/02	--	--	ND<10	--	--	--	--	910	ND<10	ND<100	ND<10	ND<10	--	--	--
10/07/02	--	--	ND<200	--	--	--	--	--	ND<200	ND<10000	ND<200	ND<200	--	--	--
01/06/03	--	--	ND<400	--	--	--	--	--	ND<400	ND<20000	ND<400	ND<400	--	--	--
04/07/03	--	--	ND<200	--	--	--	--	--	ND<200	ND<10000	ND<200	ND<200	--	--	--
07/07/03	--	--	ND<500	--	--	--	--	850	ND<500	ND<25000	ND<500	ND<500	ND<120000	--	--
10/09/03	--	--	ND<400	--	--	--	--	--	ND<400	ND<20000	ND<400	ND<400	--	--	--
01/14/04	--	--	ND<800	--	--	--	--	--	ND<800	ND<40000	ND<800	ND<800	--	--	--
04/28/04	--	--	ND<50	--	--	--	--	--	ND<1	800	ND<1	ND<1	--	--	--
07/12/04	ND<10	--	ND<10	--	ND<2	ND<2	--	450	ND<20	1100	ND<20	ND<20	--	ND<2	ND<2
10/25/04	--	--	ND<200	--	--	--	--	--	ND<200	ND<2000	ND<400	ND<200	--	--	--
01/17/05	--	--	ND<200	--	--	--	--	--	ND<200	3100	ND<400	ND<200	--	--	--
04/06/05	--	--	ND<100	--	--	--	--	--	ND<100	1500	ND<100	ND<100	--	--	--
<b>MW-2</b>															
09/28/99	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--	--
04/04/01	--	--	ND	--	--	--	--	--	ND	ND	ND	ND	--	--	--
07/17/01	--	--	ND	--	--	--	--	--	ND	ND	ND	ND	--	--	--
07/18/02	--	--	ND<100	--	--	--	--	--	ND<100	ND<1000	ND<100	ND<100	--	--	--

**Table 3 c**  
**ADDITIONAL ANALYTICAL RESULTS**  
**76 Station 1156**

Date Sampled	Dichloro-difluoromethane (µg/l)	n-Propylbenzene (µg/l)	EDB (µg/l)	1,3,5-Trimethylbenzene (µg/l)	1,2,4-Trichlorobenzene (µg/l)	HCBD (µg/l)	1,2,4-Trimethylbenzene (µg/l)	Naphthalene (µg/l)	TAME 8260B (µg/l)	TBA 8260B (µg/l)	DIPE 8260B (µg/l)	ETBE 8260B (µg/l)	Ethanol 8015B (mg/l)	Acenaphthylene (µg/l)	Acenaphthene (µg/l)
<b>MW-2 continued</b>															
10/07/02	--	--	ND<400	--	--	--	--	--	ND<400	ND<20000	ND<400	ND<400	--	--	--
01/06/03	--	--	ND<1000	--	--	--	--	--	ND<1000	ND<50000	ND<1000	ND<1000	--	--	--
04/07/03	--	--	ND<40	--	--	--	--	--	ND<40	ND<2000	ND<40	ND<40	--	--	--
07/07/03	--	--	ND<100	--	--	--	--	--	ND<100	ND<5000	ND<100	ND<100	--	--	--
10/09/03	--	--	ND<200	--	--	--	--	--	ND<200	ND<10000	ND<200	ND<200	--	--	--
01/14/04	--	--	ND<50	--	--	--	--	--	ND<50	ND<2500	ND<50	ND<50	--	--	--
04/28/04	--	--	ND<0.5	--	--	--	--	--	11	13000	ND<1	ND<1	--	--	--
07/12/04	--	--	ND<3	--	--	--	--	--	ND<5	110	ND<5	ND<5	--	--	--
10/25/04	--	--	ND<13	--	--	--	--	--	ND<13	1100	ND<25	ND<13	--	--	--
01/17/05	--	--	ND<13	--	--	--	--	--	ND<13	1200	ND<25	ND<13	--	--	--
04/06/05	--	--	ND<25	--	--	--	--	--	ND<25	.2800	ND<25	ND<25	--	--	--
<b>MW-3</b>															
09/28/99	--	--	--	--	--	--	--	--	8.80	ND	ND	ND	--	--	--
04/04/01	--	--	ND	--	--	--	--	--	ND	ND	ND	ND	--	--	--
07/17/01	--	--	ND	--	--	--	--	--	ND	ND	ND	ND	--	--	--
07/18/02	--	--	ND<5.0	--	--	--	--	--	ND<5.0	ND<50	ND<5.0	ND<5.0	--	--	--
10/07/02	--	--	ND<200	--	--	--	--	--	ND<200	ND<10000	ND<200	ND<200	--	--	--
01/06/03	--	--	ND<80	--	--	--	--	--	ND<80	ND<4000	ND<80	ND<80	--	--	--
04/07/03	--	--	ND<80	--	--	--	--	--	ND<80	ND<4000	ND<80	ND<80	--	--	--
07/07/03	--	--	ND<40	--	--	--	--	--	ND<40	ND<2000	ND<40	ND<40	--	--	--
10/09/03	--	--	ND<20	--	--	--	--	--	ND<20	ND<1000	ND<20	ND<20	--	--	--
01/14/04	--	--	ND<20	--	--	--	--	--	ND<20	ND<1000	ND<20	ND<20	--	--	--
04/28/04	--	--	ND<3	--	--	--	--	--	ND<1	ND<12	ND<1	ND<1	--	--	--
07/12/04	--	--	ND<10	--	--	--	--	--	ND<20	350	ND<20	ND<20	--	--	--
10/25/04	--	--	ND<2.5	--	--	--	--	--	ND<2.5	39	ND<5.0	ND<2.5	--	--	--
01/17/05	--	--	ND<2.5	--	--	--	--	--	ND<2.5	120	ND<5.0	ND<2.5	--	--	--

**Table 3 c**  
**ADDITIONAL ANALYTICAL RESULTS**  
**76 Station 1156**

Date Sampled	Dichloro-difluoromethane (µg/l)	n-Propylbenzene (µg/l)	EDB (µg/l)	1,3,5-Trimethylbenzene (µg/l)	1,2,4-Trichlorobenzene (µg/l)	HCBD (µg/l)	1,2,4-Trimethylbenzene (µg/l)	Naphthalene (µg/l)	TAME 8260B (µg/l)	TBA 8260B (µg/l)	DIPE 8260B (µg/l)	ETBE 8260B (µg/l)	Ethanol 8015B (mg/l)	Acenaphthylene (µg/l)	Acenaphthene (µg/l)
<b>MW-3 continued</b>															
04/06/05	--	--	ND<10	--	--	--	--	--	ND<10	150	ND<10	ND<10	--	--	--
<b>MW-4</b>															
09/28/99	--	--	--	--	--	--	--	--	ND	ND	ND	ND	--	--	--
04/04/01	--	--	ND	--	--	--	--	--	ND	ND	ND	ND	--	--	--
07/17/01	--	--	ND	--	--	--	--	--	ND	ND	ND	ND	--	--	--
07/18/02	--	--	ND<10	--	--	--	--	--	ND<10	ND<100	ND<10	ND<10	--	--	--
10/07/02	--	--	ND<200	--	--	--	--	--	ND<200	ND<10000	ND<200	ND<200	--	--	--
01/06/03	--	--	ND<20	--	--	--	--	--	ND<20	ND<1000	ND<20	ND<20	--	--	--
04/07/03	--	--	ND<20	--	--	--	--	--	ND<20	ND<1000	ND<20	ND<20	--	--	--
07/07/03	--	--	ND<20	--	--	--	--	--	ND<20	ND<1000	ND<20	ND<20	--	--	--
10/09/03	--	--	ND<4.0	--	--	--	--	--	ND<4.0	ND<200	ND<4.0	ND<4.0	--	--	--
01/14/04	--	--	ND<4.0	--	--	--	--	--	ND<4.0	ND<200	ND<4.0	ND<4.0	--	--	--
04/28/04	--	--	ND<0.5	--	--	--	--	--	ND<1	150	ND<1	ND<1	--	--	--
07/12/04	--	--	ND<3	--	--	--	--	--	ND<5	210	ND<5	ND<5	--	--	--
10/25/04	--	--	ND<1.0	--	--	--	--	--	ND<1.0	38	ND<2.0	ND<1.0	--	--	--
01/17/05	--	--	ND<1.0	--	--	--	--	--	ND<1.0	110	ND<2.0	ND<1.0	--	--	--
04/06/05	--	--	ND<2.5	--	--	--	--	--	ND<2.5	ND<25	ND<2.5	ND<2.5	--	--	--
<b>MW-5</b>															
07/18/02	--	--	ND<2.0	--	--	--	--	--	ND<2.0	ND<20	ND<2.0	ND<2.0	--	--	--
10/07/02	--	--	ND<2.0	--	--	--	--	--	ND<2.0	ND<100	ND<2.0	ND<2.0	--	--	--
01/06/03	--	--	ND<2.0	--	--	--	--	ND<10	ND<2.0	ND<100	ND<2.0	ND<2.0	--	--	--
04/07/03	--	--	ND<10	--	--	--	--	--	ND<10	ND<500	ND<10	ND<10	--	--	--
07/07/03	--	--	ND<4.0	--	--	--	--	--	ND<4.0	ND<200	ND<4.0	ND<4.0	--	--	--
10/09/03	--	--	ND<4.0	--	--	--	--	--	ND<4.0	ND<200	ND<4.0	ND<4.0	--	--	--
01/14/04	--	--	ND<40	--	--	--	--	--	ND<40	ND<2000	ND<40	ND<40	--	--	--
04/28/04	--	--	ND<0.5	--	--	--	--	--	ND<1	ND<12	ND<1	ND<1	--	--	--

**Table 3 c**  
**ADDITIONAL ANALYTICAL RESULTS**  
**76 Station 1156**

Date Sampled	Dichloro-difluoromethane (µg/l)	n-Propylbenzene (µg/l)	EDB (µg/l)	1,3,5-Trimethylbenzene (µg/l)	1,2,4-Trichlorobenzene (µg/l)	HCBD (µg/l)	1,2,4-Trimethylbenzene (µg/l)	Naphthalene (µg/l)	TAME 8260B (µg/l)	TBA 8260B (µg/l)	DIPE 8260B (µg/l)	ETBE 8260B (µg/l)	Ethanol 8015B (mg/l)	Acenaphthylene (µg/l)	Acenaphthene (µg/l)
<b>MW-5 continued</b>															
07/12/04	--	--	ND<0.5	--	--	--	--	--	ND<1	ND<12	ND<1	ND<1	--	--	--
10/25/04	--	--	ND<50	--	--	--	--	--	ND<50	ND<500	ND<100	ND<50	--	--	--
01/17/05	--	--	ND<2.5	--	--	--	--	--	ND<2.5	100	ND<5.0	ND<2.5	--	--	--
04/06/05	--	--	ND<0.50	--	--	--	--	--	ND<0.50	7.6	ND<0.50	ND<0.50	--	--	--
<b>MW-6</b>															
07/18/02	--	--	ND<2.0	--	--	--	--	--	ND<2.0	ND<20	ND<2.0	ND<2.0	--	--	--
10/07/02	--	--	ND<2.0	--	--	--	--	--	ND<2.0	ND<100	ND<2.0	ND<2.0	--	--	--
01/06/03	--	--	ND<2.0	--	--	--	--	--	ND<2.0	ND<100	ND<2.0	ND<2.0	--	--	--
04/07/03	--	--	ND<2.0	--	--	--	--	--	ND<2.0	ND<100	ND<2.0	ND<2.0	--	--	--
07/07/03	--	--	ND<2.0	--	--	--	--	--	ND<2.0	ND<100	ND<2.0	ND<2.0	--	--	--
10/09/03	--	--	ND<2.0	--	--	--	--	--	ND<2.0	ND<100	ND<2.0	ND<2.0	--	--	--
01/14/04	--	--	ND<2.0	--	--	--	--	--	ND<2.0	ND<100	ND<2.0	ND<2.0	--	--	--
04/28/04	--	--	ND<0.5	--	--	--	--	--	ND<1	ND<12	ND<1	ND<1	--	--	--
07/12/04	--	--	ND<0.5	--	--	--	--	--	ND<1	ND<12	ND<1	ND<1	--	--	--
10/25/04	--	--	ND<0.50	--	--	--	--	--	ND<0.50	ND<5.0	ND<1.0	ND<0.50	--	--	--
01/17/05	--	--	ND<0.50	--	--	--	--	--	ND<0.50	ND<5.0	ND<1.0	ND<0.50	--	--	--
04/06/05	--	--	ND<0.50	--	--	--	--	--	ND<0.50	ND<5.0	ND<0.50	ND<0.50	--	--	--
<b>MW-7</b>															
07/18/02	--	--	ND<20	--	--	--	--	--	ND<20	33000	ND<20	ND<20	--	--	--
10/07/02	--	--	ND<400	--	--	--	--	--	ND<400	26000	ND<400	ND<400	--	--	--
01/06/03	--	--	ND<200	--	--	--	--	ND<10	ND<200	ND<10000	ND<200	ND<200	--	--	--
04/07/03	--	--	ND<800	--	--	--	--	--	ND<800	ND<40000	ND<800	ND<800	--	--	--
07/07/03	--	--	ND<400	--	--	--	--	--	ND<400	27000	ND<400	ND<400	--	--	--
10/09/03	--	--	ND<500	--	--	--	--	--	ND<500	ND<25000	ND<500	ND<500	--	--	--
01/14/04	--	--	ND<800	--	--	--	--	--	ND<800	ND<40000	ND<800	ND<800	--	--	--
04/28/04	--	--	ND<0.5	--	--	--	--	--	12	9200	ND<1	ND<1	--	--	--

**Table 3 c**  
**ADDITIONAL ANALYTICAL RESULTS**  
**76 Station 1156**

Date Sampled	Dichloro-difluoromethane (µg/l)	n-Propylbenzene (µg/l)	EDB (µg/l)	1,3,5-Trimethylbenzene (µg/l)	1,2,4-Trichlorobenzene (µg/l)	HCBD (µg/l)	1,2,4-Trimethylbenzene (µg/l)	Naphthalene (µg/l)	TAME 8260B (µg/l)	TBA 8260B (µg/l)	DIPE 8260B (µg/l)	ETBE 8260B (µg/l)	Ethanol 8015B (mg/l)	Acenaphthylene (µg/l)	Acenaphthene (µg/l)
<b>MW-7 continued</b>															
07/12/04	--	--	ND<5	--	--	--	--	--	ND<10	4600	ND<10	ND<10	--	--	--
10/25/04	--	--	ND<50	--	--	--	--	--	ND<50	3900	ND<100	ND<50	--	--	--
01/17/05	--	--	ND<50	--	--	--	--	--	ND<50	4200	ND<100	ND<50	--	--	--
04/06/05	--	--	ND<0.50	--	--	--	--	--	9.3	4200	ND<0.50	ND<0.50	--	--	--

**Table 3 d**  
**ADDITIONAL ANALYTICAL RESULTS**  
**76 Station 1156**

Date Sampled	Fluorene (µg/l)	Phenanthrene (µg/l)	Anthracene (µg/l)	Fluoranthene (µg/l)	Pyrene (µg/l)	Benzo (a)Anthracene (µg/l)	Chrysene (µg/l)	B[B]F (µg/l)	B[K]F (µg/l)	Benzo(a) Pyrene (µg/l)	DB[A,H]A (µg/l)	Benzo (g,h,i)-perylene (µg/l)	Indeno (1,2,3c,d)-pyrene (µg/l)	Ethanol 8260B (µg/l)	bis(2-Ethylhexyl) phthalate (µg/l)
<b>MW-1</b>															
03/31/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10
10/03/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	51.6
04/04/01	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	55
07/17/01	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	400
07/18/02	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<2500000	120
10/07/02	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<50000000	--
01/06/03	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<100000000	--
04/07/03	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<50000000	--
07/07/03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	70
10/09/03	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<100000	--
01/14/04	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<200000	--
04/28/04	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<1000	--
07/12/04	ND<2	ND<2	ND<2	ND<2	ND<2	ND<2	ND<2	ND<2	ND<2	ND<2	ND<3	ND<2	ND<2	ND<20000	ND<5
10/25/04	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<20000	--
01/17/05	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<20000	--
04/06/05	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<10000	--
<b>MW-2</b>															
04/04/01	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--
07/17/01	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--
07/18/02	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<25000000	--
10/07/02	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<100000000	--
01/06/03	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<250000000	--
04/07/03	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<10000000	--
07/07/03	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<250000000	--
10/09/03	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<50000	--
01/14/04	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<13000	--

**Table 3 d**  
**ADDITIONAL ANALYTICAL RESULTS**  
**76 Station 1156**

Date Sampled	Fluorene (µg/l)	Phenanthrene (µg/l)	Anthracene (µg/l)	Fluoranthene (µg/l)	Pyrene (µg/l)	Benzo(a)Anthracene (µg/l)	Chrysene (µg/l)	B[B]F (µg/l)	B[K]F (µg/l)	Benzo(a)Pyrene (µg/l)	DB[A,H]A (µg/l)	Benzo(g,h,i)-perylene (µg/l)	Indeno(1,2,3c,d)-pyrene (µg/l)	Ethanol 8260B (µg/l)	bis(2-Ethylhexyl) phthalate (µg/l)
<b>MW-2 continued</b>															
04/28/04	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<1000	--
07/12/04	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<4000	--
10/25/04	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<1300	--
01/17/05	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<1300	--
04/06/05	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<2500	--
<b>MW-3</b>															
04/04/01	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--
07/17/01	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--
07/18/02	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<1200000	--
10/07/02	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<50000000	--
01/06/03	--	--	--	--	--	--	--	--	--	--	--	--	--	23000000	--
04/07/03	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<20000000	--
07/07/03	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<10000000	--
10/09/03	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<5000	--
01/14/04	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<5000	--
04/28/04	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<1000	--
07/12/04	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<20000	--
10/25/04	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<250	--
01/17/05	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<250	--
04/06/05	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<1000	--
<b>MW-4</b>															
04/04/01	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--
07/17/01	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--
07/18/02	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<2500000	--
10/07/02	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<50000000	--
01/06/03	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<5000000	--



**Table 3 d**  
**ADDITIONAL ANALYTICAL RESULTS**  
**76 Station 1156**

Date Sampled	Fluorene (µg/l)	Phenanthrene (µg/l)	Anthracene (µg/l)	Fluoranthene (µg/l)	Pyrene (µg/l)	Benzo (a)Anthracene (µg/l)	Chrysene (µg/l)	B[B]F (µg/l)	B[K]F (µg/l)	Benzo(a) Pyrene (µg/l)	DB[A,H]A (µg/l)	Benzo (g,h,i)-perylene (µg/l)	Indeno (1,2,3c,d)-pyrene (µg/l)	Ethanol 8260B (µg/l)	bis(2-Ethylhexyl) phthalate (µg/l)
<b>MW-4 continued</b>															
04/07/03	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<500000	--
07/07/03	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<500000	--
10/09/03	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<1000	--
01/14/04	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<1000	--
04/28/04	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<1000	--
07/12/04	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<4000	--
10/25/04	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<100	--
01/17/05	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<100	--
04/06/05	--	--	--	--	--	--	--	--	--	--	--	--	--	73000	--
<b>MW-5</b>															
07/18/02	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<500000	--
10/07/02	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<500000	--
01/06/03	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<500000	ND<5.0
04/07/03	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<2500000	--
07/07/03	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<1000000	--
10/09/03	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<1000	--
01/14/04	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<10000	--
04/28/04	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<1000	--
07/12/04	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<800	--
10/25/04	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<5000	--
01/17/05	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<250	--
04/06/05	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<50	--
<b>MW-6</b>															
07/18/02	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<500000	--
10/07/02	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<500000	--
01/06/03	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<500000	--

**Table 3 d**  
**ADDITIONAL ANALYTICAL RESULTS**  
**76 Station 1156**

Date Sampled	Fluorene (µg/l)	Phenanthrene (µg/l)	Anthracene (µg/l)	Fluoranthene (µg/l)	Pyrene (µg/l)	Benzo (a)Anthracene (µg/l)	Chrysene (µg/l)	B[B]F (µg/l)	B[K]F (µg/l)	Benzo(a) Pyrene (µg/l)	DB[A,H]A (µg/l)	Benzo (g,h,i)-perylene (µg/l)	Indeno (1,2,3c,d)-pyrene (µg/l)	Ethanol 8260B (µg/l)	bis(2-Ethylhexyl) phthalate (µg/l)
<b>MW-6 continued</b>															
04/07/03	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<500000	--
07/07/03	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<500000	--
10/09/03	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<500	--
01/14/04	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<500	--
04/28/04	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<1000	--
07/12/04	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<800	--
10/25/04	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<50	--
01/17/05	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<50	--
04/06/05	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<50	--
<b>MW-7</b>															
07/18/02	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<5000000	--
10/07/02	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<100000000	--
01/06/03	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<50000000	ND<5.0
04/07/03	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<200000000	--
07/07/03	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<100000000	--
10/09/03	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<130000	--
01/14/04	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<200000	--
04/28/04	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<1000	--
07/12/04	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<8000	--
10/25/04	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<5000	--
01/17/05	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<5000	--
04/06/05	--	--	--	--	--	--	--	--	--	--	--	--	--	ND<10000	--

**Table 3 e**  
**ADDITIONAL ANALYTICAL RESULTS**  
**76 Station 1156**

Date Sampled	2-Methyl-phenol (µg/l)	4-Methyl-phenol (µg/l)	1,2 DCE (µg/l)	2-Methyl-naphthalene (µg/l)
<b>MW-1</b>				
07/20/99	--	27	--	240
09/28/99	26.4	35.6	--	87.4
01/07/00	--	--	--	315
03/31/00	31	18	--	73
07/14/00	--	--	--	300
10/03/00	--	28.9	--	98.1
01/03/01	--	--	--	180
04/04/01	--	--	--	78
07/17/01	47	25	--	290
07/18/02	13	25	--	420
07/07/03	ND<5.0	22	ND<120	260
<b>MW-5</b>				
01/06/03	ND<5.0	ND<5.0	--	ND<5.0
<b>MW-7</b>				
01/06/03	ND<5.0	ND<5.0	--	ND<5.0

# COORDINATED EVENT DATA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**4255 MacArthur Boulevard**  
**Oakland, CA**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
MW-1	11/17/1993	410	21	11	7.9	47	NA	NA	NA	NA	NA	NA	NA	175.79	8.59	NA	167.20	NA	NA	NA
MW-1	01/20/1994	1,200	180	19	48	47	NA	NA	NA	NA	NA	NA	NA	175.79	8.22	NA	167.57	NA	NA	NA
MW-1	04/25/1994	3,100	610	<10	130	27	NA	NA	NA	NA	NA	NA	NA	175.79	7.63	NA	168.16	NA	NA	NA
MW-1	07/07/1994	2,400	1,000	10	250	20	NA	NA	NA	NA	NA	NA	NA	175.79	8.31	NA	167.48	NA	NA	NA
MW-1	10/27/1994	2,200	500	3.1	72	1.8	NA	NA	NA	NA	NA	NA	NA	175.79	8.84	NA	166.95	NA	NA	NA
MW-1	11/17/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	175.79	7.60	NA	168.19	NA	NA	NA
MW-1	11/28/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	175.79	7.56	NA	168.23	NA	NA	NA
MW-1	01/13/1995	570	75	2.5	6.7	11	NA	NA	NA	NA	NA	NA	NA	175.79	7.11	NA	168.68	NA	NA	NA
MW-1	04/12/1995	1,800	480	<5.0	79	<5.0	NA	NA	NA	NA	NA	NA	NA	175.79	7.08	NA	168.71	NA	NA	NA
MW-1	07/25/1995	120	15	1.1	2.1	2.9	NA	NA	NA	NA	NA	NA	NA	175.79	7.73	NA	168.06	NA	NA	NA
MW-1 (D)	07/25/1995	300	88	2.4	11	6.5	NA	NA	NA	NA	NA	NA	NA	175.79	7.73	NA	168.06	NA	NA	NA
MW-1	10/18/1995	130	9.5	0.8	1.3	1.7	NA	NA	NA	NA	NA	NA	NA	175.79	8.42	NA	167.37	NA	NA	NA
MW-1 (D)	10/18/1995	120	11	0.8	1.4	1.8	NA	NA	NA	NA	NA	NA	NA	175.79	8.42	NA	167.37	NA	NA	NA
MW-1	01/17/1996	250	22	0.9	1.6	2.3	NA	NA	NA	NA	NA	NA	NA	175.79	7.83	NA	167.96	NA	NA	NA
MW-1	04/25/1996	<50	4.6	<0.5	<0.5	0.6	500b	NA	NA	NA	NA	NA	NA	175.79	7.35	NA	168.44	NA	NA	NA
MW-1	07/17/1996	<250	15	<2.5	<2.5	<2.5	540	NA	NA	NA	NA	NA	NA	175.79	7.70	NA	168.09	NA	NA	NA
MW-1	10/01/1996	1,200	500	12	57	82	1,900	NA	NA	NA	NA	NA	NA	175.79	8.07	NA	167.72	NA	NA	NA
MW-1	01/22/1997	640	170	4.3	33	33	1,200	NA	NA	NA	NA	NA	NA	175.79	7.21	NA	168.58	NA	NA	NA
MW-1	04/08/1997	<200	34	<2.0	3.3	4.3	950	NA	NA	NA	NA	NA	NA	175.79	7.75	NA	168.04	NA	NA	NA
MW-1 (D)	04/08/1997	<200	66	<2.0	6.4	8	740	NA	NA	NA	NA	NA	NA	175.79	7.75	NA	168.04	NA	NA	NA
MW-1	07/08/1997	190	49	1.2	5.8	8.6	560	NA	NA	NA	NA	NA	NA	175.79	8.01	NA	167.78	NA	NA	NA
MW-1	10/08/1997	<100	7	<1.0	<1.0	<1.0	620	NA	NA	NA	NA	NA	NA	175.79	8.10	NA	167.69	NA	NA	NA
MW-1	01/09/1998	970	390	12	48	71	1,200	NA	NA	NA	NA	NA	NA	175.79	7.14	NA	168.65	NA	NA	NA
MW-1	04/13/1998	<50	136	<0.50	1.5	1.8	170	NA	NA	NA	NA	NA	NA	175.79	6.78	NA	169.01	NA	NA	NA
MW-1	07/17/1998	2,500	750	11	88	67	150	NA	NA	NA	NA	NA	NA	175.79	7.28	NA	168.51	NA	NA	NA
MW-1	10/02/1998	8,000	970	36	270	440	35	NA	NA	NA	NA	NA	NA	175.79	7.77	NA	168.02	NA	NA	NA
MW-1	02/03/1999	210	56	0.82	<0.50	3.2	220	NA	NA	NA	NA	NA	NA	175.79	7.45	NA	168.34	NA	1.4	NA
MW-1	04/29/1999	<50	4.5	<0.50	0.56	<0.50	140	196	NA	NA	NA	NA	NA	175.79	7.58	NA	168.21	NA	1.2	140
MW-1	07/23/1999	<50.0	<0.500	<0.500	<0.500	<0.500	120	111*	NA	NA	NA	NA	NA	175.79	8.51	NA	167.28	NA	1.0	NA
MW-1	11/01/1999	<50.0	<0.500	<0.500	<0.500	<0.500	2.90	NA	NA	NA	NA	NA	NA	175.79	8.30	NA	167.49	NA	1.4	-71
MW-1	01/17/2000	<50	<0.50	<0.50	<0.50	<0.50	3.30	NA	NA	NA	NA	NA	NA	175.79	8.04	NA	167.75	NA	16.9	64
MW-1	04/17/2000	<50.0	1.08	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	NA	175.79	8.00	NA	167.79	NA	1.8	112
MW-1	07/26/2000	125	54.3	2.16	5.45	9.86	33.1	NA	NA	NA	NA	NA	NA	175.79	7.52	NA	168.27	NA	13.2	-140
MW-1	10/12/2000	101	40.7	2.68	3.00	5.18	25.0	NA	NA	NA	NA	NA	NA	175.79	7.71	NA	168.08	NA	>20	534

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**4255 MacArthur Boulevard**  
**Oakland, CA**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
MW-1	01/15/2001	<50.0	0.633	<0.500	0.505	1.74	<2.50	NA	NA	NA	NA	NA	NA	175.79	7.33	NA	168.46	NA	16.9	-127
MW-1	04/09/2001	<50.0	<0.500	<0.500	<0.500	0.927	<2.50	NA	NA	NA	NA	NA	NA	175.79	7.68	NA	168.11	NA	12.8	-117
MW-1	07/24/2001	<50	4.0	0.65	0.53	1.3	NA	<5.0	NA	NA	NA	NA	NA	175.79	8.00	NA	167.79	NA	>20	43
MW-1	10/31/2001	<50	4.4	<0.50	<0.50	0.98	NA	<5.0	NA	NA	NA	NA	NA	175.79	7.94	NA	167.85	NA	13.6	123
MW-1	01/10/2002	<50	2.2	<0.50	<0.50	1.2	NA	6.1	NA	NA	NA	NA	NA	175.79	7.63	NA	168.16	NA	0.1	63
MW-1	04/25/2002	<50	2.0	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	175.79	7.76	NA	168.03	NA	0.3	54
MW-1	07/18/2002	<50	6.1	<0.50	<0.50	0.98	NA	<5.0	NA	NA	NA	NA	NA	175.79	8.29	NA	167.50	NA	1.1	32
MW-1	10/07/2002	500	17	14	11	60	NA	9.0	NA	NA	NA	NA	NA	175.76	8.34	NA	167.42	NA	2.8	-26
MW-1	01/06/2003	<50	12	<0.50	0.73	0.58	NA	14	NA	NA	NA	NA	NA	175.76	7.18	NA	168.58	NA	0.5	-22
MW-1	04/07/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	12	NA	NA	NA	<5.0	NA	175.76	7.75	NA	168.01	NA	0.7	-24
MW-1	07/07/2003	<50	6.6	<0.50	<0.50	<1.0	NA	8.1	NA	NA	NA	<5.0	NA	175.76	7.75	NA	168.01	NA	0.5	16
MW-1	10/09/2003	<50	1.9	<0.50	<0.50	<1.0	NA	22	NA	NA	NA	<5.0	NA	175.76	8.45	NA	167.31	NA	0.7	80
MW-1	01/14/2004	<100	19	<1.0	<1.0	<2.0	NA	180	NA	NA	NA	63	NA	175.76	7.45	NA	168.31	NA	0.8	242
MW-1	04/28/2004	<50	2.1	<0.50	<0.50	<1.0	NA	110	NA	NA	NA	33	NA	175.76	8.25	NA	167.51	NA	0.5	64
MW-1	07/12/2004	<50	2.5	<0.50	<0.50	<1.0	NA	120	<2.0	<2.0	<2.0	26	<50	175.76	6.20	NA	169.56	NA	0.5	72
MW-1	10/25/2004	<500	<5.0	<5.0	<5.0	<10	NA	550	NA	NA	NA	240	NA	175.76	7.98	NA	167.78	NA	3.15	-72
MW-1	01/17/2005	<250	8.0	<2.5	<2.5	<5.0	NA	500	NA	NA	NA	310	NA	175.76	7.42	NA	168.34	NA	0.2	9
MW-1	04/06/2005	<250	<2.5	<2.5	<2.5	<5.0	NA	230	NA	NA	NA	330 *	NA	175.76	8.15	NA	167.61	NA	2.49	143

MW-2	11/17/1993	31,000	9,400	4,600	1,000	3,900	NA	NA	NA	NA	NA	NA	NA	170.91	12.31	NA	158.60	NA	NA	NA
MW-2	01/20/1994	40,000	6,900	5,600	780	4,100	NA	NA	NA	NA	NA	NA	NA	170.91	11.48	NA	159.43	NA	NA	NA
MW-2 (D)	01/20/1994	41,000	7,200	6,200	900	4,800	NA	NA	NA	NA	NA	NA	NA	170.91	11.48	NA	159.43	NA	NA	NA
MW-2	04/25/1994	60,000	9,300	6,100	1,400	6,200	NA	NA	NA	NA	NA	NA	NA	170.91	10.84	NA	160.07	NA	NA	NA
MW-2	07/07/1994	280,000a	40,000	26,000	8,100	32,000	NA	NA	NA	NA	NA	NA	NA	170.91	11.89	NA	159.02	NA	NA	NA
MW-2 (D)	07/07/1994	53,000	13,000	6,600	2,000	8,400	NA	NA	NA	NA	NA	NA	NA	170.91	11.89	NA	159.02	NA	NA	NA
MW-2	10/27/1994	130,000	14,000	12,000	2,400	13,000	NA	NA	NA	NA	NA	NA	NA	170.91	12.89	NA	158.02	NA	NA	NA
MW-2 (D)	10/27/1994	390,000	8,800	7,000	1,700	11,000	NA	NA	NA	NA	NA	NA	NA	170.91	12.89	NA	158.02	NA	NA	NA
MW-2	11/17/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	170.91	9.11	NA	161.80	NA	NA	NA
MW-2	11/28/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	170.91	9.22	NA	161.69	NA	NA	NA
MW-2	01/13/1995	75,000	5,900	12,000	3,100	17,000	NA	NA	NA	NA	NA	NA	NA	170.91	8.10	NA	162.81	NA	NA	NA
MW-2	04/12/1995	100,000	8,500	11,000	2,400	12,000	NA	NA	NA	NA	NA	NA	NA	170.91	10.12	NA	160.79	NA	NA	NA
MW-2 (D)	04/12/1995	80,000	4,200	9,300	2,500	12,000	NA	NA	NA	NA	NA	NA	NA	170.91	10.12	NA	160.79	NA	NA	NA
MW-2	07/25/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	170.91	11.53	NA	159.80	0.52	NA	NA
MW-2	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	170.91	14.02	NA	156.99	0.13	NA	NA

**WELL CONCENTRATIONS**  
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Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
MW-2	01/17/1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	170.91	10.27	NA	160.78	0.17	NA	NA
MW-2	04/25/1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	170.91	11.68	NA	159.25	0.03	NA	NA
MW-2	07/17/1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	170.91	12.78	NA	158.81	0.48	NA	NA
MW-2	10/01/1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	170.91	14.21	NA	156.70	0.28	NA	NA
MW-2	01/22/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	170.91	10.92	NA	160.08	0.11	NA	NA
MW-2	04/08/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	170.91	14.12	NA	156.95	0.20	NA	NA
MW-2	07/08/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	170.91	14.98	NA	156.08	0.19	NA	NA
MW-2	10/08/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	170.91	12.97	NA	157.98	0.05	NA	NA
MW-2	01/08/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	170.91	12.54	NA	158.43	0.08	NA	NA
MW-2	04/13/1998	180,000	2,800	5,200	2,400	13,000	71,000	NA	NA	NA	NA	NA	NA	170.91	10.05	NA	160.86	NA	NA	NA
MW-2	07/17/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	170.91	11.75	NA	159.24	0.10	NA	NA
MW-2	10/02/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	170.91	16.78	NA	154.22	0.11	NA	NA
MW-2	02/03/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	170.91	9.90	9.82	161.07	0.08	NA	NA
MW-2	04/29/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	170.91	9.86	9.81	161.09	0.05	NA	NA
MW-2	07/23/1999	65,800	6,500	4,480	1,960	8,960	46,600	58,500*	NA	NA	NA	NA	NA	170.91	14.45	NA	156.46	NA	1.4	NA
MW-2	11/01/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	170.91	11.84	11.81	159.09	0.03	NA	NA
MW-2	01/17/2000	46,000	6,000	2,400	1,500	5,500	50,000	31,000	NA	NA	NA	NA	NA	170.91	11.00	NA	159.91	NA	1.3	-54
MW-2	04/17/2000	96,300	8,150	10,200	2,820	14,900	112,000	108,000	NA	NA	NA	NA	NA	170.91	11.06	NA	159.85	NA	2.6	125
MW-2	07/26/2000	72,400	8,680	5,620	2,810	13,400	66,200	46,300	NA	NA	NA	NA	NA	170.91	12.82	NA	158.09	NA	2.2	113
MW-2	10/12/2000	63,200	5,840	4,180	2,310	11,100	61,200	66,600	NA	NA	NA	NA	NA	170.91	11.32	NA	159.59	NA	0.4	55
MW-2	01/15/2001	59,700	2,630	4,800	2,050	11,500	44,400	5,080	NA	NA	NA	NA	NA	170.91	10.19	NA	160.72	NA	1.1	-22
MW-2	04/09/2001	56,900	1,860	2,550	1,810	9,720	40,000	46,600	NA	NA	NA	NA	NA	170.91	11.15	NA	159.76	NA	1.0	-55
MW-2	07/24/2001	84,000	3,000	4,600	2,500	13,000	NA	41,000	NA	NA	NA	NA	NA	170.91	11.67	NA	159.24	NA	0.2	53
MW-2	10/31/2001	45,000	2,200	3,000	1,500	7,700	NA	29,000	<50	<50	<50	51,000	<500	170.91	11.04	NA	159.87	NA	1.2	-17
MW-2	01/10/2002	28,000	840	740	760	3,300	NA	32,000	NA	NA	NA	NA	NA	170.91	9.58	NA	161.33	NA	2.1	-76
MW-2	04/25/2002	41,000	1,900	2,000	1,200	6,900	NA	17,000	NA	NA	NA	NA	NA	170.91	11.40	NA	159.51	NA	0.8	-95
MW-2	07/18/2002	87,000	2,000	2,200	1,400	10,000	NA	19,000	NA	NA	NA	NA	NA	170.91	12.68	NA	158.23	NA	0.7	-34
MW-2	10/07/2002	110,000	3,900	6,700	2,700	15,000	NA	20,000	NA	NA	NA	NA	NA	170.88	11.58	NA	159.30	NA	1.4	-52
MW-2	01/06/2003	65,000	2,400	3,500	1,400	8,600	NA	26,000	NA	NA	NA	NA	NA	170.88	9.09	NA	161.79	NA	0.4	40
MW-2	04/07/2003	57,000	1,900	2,500	1,700	8,600	NA	37,000	NA	NA	NA	34,000	NA	170.88	11.08	NA	159.80	NA	1.0	60
MW-2	07/07/2003	34,000	4,000	4,200	1,600	8,500	NA	51,000	NA	NA	NA	44,000	NA	170.88	11.27	NA	159.61	NA	1.3	-17
MW-2	10/09/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	170.88	11.64	11.61	159.26	0.03	NA	NA
MW-2	10/20/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	170.88	11.88	11.84	159.03	0.04	NA	NA
MW-2	01/14/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	170.88	10.96	10.95	159.93	0.01	NA	NA

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Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
MW-2	04/28/2004	35,000	2,200	2,200	2,300	8,200	NA	26,000	NA	NA	NA	28,000	NA	170.88	11.05	NA	159.83	NA	0.1	-96
MW-2	07/12/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	170.88	12.12	12.09	158.78	0.03	NA	NA
MW-2	10/25/2004	60,000	2,900	2,300	2,300	7,600	NA	27,000	NA	NA	NA	26,000	NA	170.88	11.23	NA	159.65	NA	1.62	-69
MW-2	01/17/2005	62,000	1,900	1,800	1,800	5,700	NA	22,000	NA	NA	NA	21,000	NA	170.88	8.78	NA	162.10	NA	0.8	-102
MW-2	04/06/2005	40,000	1,500	940	1,600	2,900	NA	23,000	NA	NA	NA	23,000	NA	170.88	9.23	NA	161.65	NA	0.60	-104
MW-3	11/17/1993	18,000	5,400	660	720	2,200	NA	NA	NA	NA	NA	NA	NA	174.61	15.40	NA	159.21	NA	NA	NA
MW-3	01/20/1994	55,000	13,000	2,600	2,200	6,500	NA	NA	NA	NA	NA	NA	NA	174.61	14.61	NA	160.00	NA	NA	NA
MW-3	04/25/1994	96,000	11,000	1,600	3,100	9,900	NA	NA	NA	NA	NA	NA	NA	174.61	13.12	NA	161.49	NA	NA	NA
MW-3 (D)	04/25/1994	76,000	12,000	1,900	2,600	7,300	NA	NA	NA	NA	NA	NA	NA	174.61	13.12	NA	161.49	NA	NA	NA
MW-3	07/07/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	174.61	14.54	NA	160.07	0.02	NA	NA
MW-3	10/27/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	174.61	15.62	NA	159.03	0.05	NA	NA
MW-3	11/17/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	174.61	13.83	NA	160.78	NA	NA	NA
MW-3	11/28/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	174.61	14.02	NA	160.59	NA	NA	NA
MW-3	01/13/1995	180,000	3,200	2,700	1,700	5,200	NA	NA	NA	NA	NA	NA	NA	174.61	12.13	NA	162.48	NA	NA	NA
MW-3 (D)	01/13/1995	23,000	4,000	690	960	3,000	NA	NA	NA	NA	NA	NA	NA	174.61	12.13	NA	162.48	NA	NA	NA
MW-3	04/12/1995	56,000	8,700	1,500	2,100	6,300	NA	NA	NA	NA	NA	NA	NA	174.61	12.96	NA	161.65	NA	NA	NA
MW-3	07/25/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	174.61	14.28	NA	160.38	0.06	NA	NA
MW-3	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	174.61	15.88	NA	158.77	0.05	NA	NA
MW-3	01/17/1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	174.61	13.86	NA	160.94	0.24	NA	NA
MW-3	04/25/1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	174.61	13.82	NA	160.81	0.02	NA	NA
MW-3	07/17/1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	174.61	16.11	NA	158.52	0.03	NA	NA
MW-3	10/01/1996	46,000	7,300	530	1,700	3,900	3,200	NA	NA	NA	NA	NA	NA	174.61	16.56	NA	158.05	NA	NA	NA
MW-3 (D)	10/01/1996	47,000	7,100	530	1,700	4,000	2,900	NA	NA	NA	NA	NA	NA	174.61	16.56	NA	158.05	NA	NA	NA
MW-3	01/22/1997	82,000	5,200	1,300	2,800	8,900	1,100	NA	NA	NA	NA	NA	NA	174.61	13.07	NA	161.54	NA	NA	NA
MW-3 (D)	01/22/1997	61,000	8,400	1,100	2,300	7,000	2,700	NA	NA	NA	NA	NA	NA	174.61	13.07	NA	161.54	NA	NA	NA
MW-3	04/08/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	174.61	17.09	NA	157.54	0.03	NA	NA
MW-3	07/08/1997	56,000	8,800	580	2,000	4,900	2,800	NA	NA	NA	NA	NA	NA	174.61	15.85	NA	158.76	NA	NA	NA
MW-3	10/08/1997	48,000	8,000	590	1,700	3,400	5,100	NA	NA	NA	NA	NA	NA	174.61	16.22	NA	158.39	NA	NA	NA
MW-3	01/08/1998	47,000	9,400	810	2,300	4,700	6,300	NA	NA	NA	NA	NA	NA	174.61	13.80	NA	160.81	NA	NA	NA
MW-3 (D)	01/08/1998	48,000	8,100	750	2,000	4,100	5,800	NA	NA	NA	NA	NA	NA	174.61	13.80	NA	160.81	NA	NA	NA
MW-3	04/13/1998	32,000	6,800	540	1,400	3,400	4,000	NA	NA	NA	NA	NA	NA	174.61	12.97	NA	161.64	NA	NA	NA
MW-3 (D)	04/13/1998	36,000	7,300	660	1,600	3,700	4,000	NA	NA	NA	NA	NA	NA	174.61	12.97	NA	161.64	NA	NA	NA
MW-3	07/17/1998	71,000	11,000	590	2,200	6,900	3,900	NA	NA	NA	NA	NA	NA	174.61	11.51	NA	163.10	NA	NA	NA



**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
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**Oakland, CA**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
MW-3 (D)	07/17/1998	76,000	12,000	700	2,600	8,000	3,000	NA	NA	NA	NA	NA	NA	174.61	11.51	NA	163.10	NA	NA	NA
MW-3	10/02/1998	66,000	8,900	510	2,000	4,900	4,600	NA	NA	NA	NA	NA	NA	174.61	16.50	NA	158.11	NA	NA	NA
MW-3 (D)	10/02/1998	59,000	9,400	460	2,000	4,900	4,700	NA	NA	NA	NA	NA	NA	174.61	16.50	NA	158.11	NA	NA	NA
MW-3	02/03/1999	36,000	6,800	300	1,600	2,900	18,000	NA	NA	NA	NA	NA	NA	174.61	15.21	NA	159.40	NA	1.3	NA
MW-3	04/29/1999	45,000	8,100	580	2,200	5,800	4,700	5,150	NA	NA	NA	NA	NA	174.61	15.43	NA	159.18	NA	1.5	-68
MW-3	07/23/1999	29,400	3,540	215	810	3,800	4,720	6,950*	NA	NA	NA	NA	NA	174.61	14.95	NA	159.66	NA	1.3	NA
MW-3	11/01/1999	20,000	4,190	294	1,060	1,740	5,540	8,590	NA	NA	NA	NA	NA	174.61	14.66	NA	159.95	NA	0.6	-110
MW-3	01/17/2000	17,000	3,900	89	1,100	1,200	7,900	NA	NA	NA	NA	NA	NA	174.61	13.94	NA	160.67	NA	1.3	-40
MW-3	04/17/2000	28,100	5,240	247	1,540	2,750	16,600	NA	NA	NA	NA	NA	NA	174.61	14.00	NA	160.61	NA	1.1	-86
MW-3	07/26/2000	24,300	6,680	159	1,610	1,640	17,100	NA	NA	NA	NA	NA	NA	174.61	13.72	NA	160.89	NA	0.9	-70
MW-3	10/12/2000	14,300	2,630	86.7	241	1,360	16,300	NA	NA	NA	NA	NA	NA	174.61	14.15	NA	160.46	NA	0.9	50
MW-3	01/15/2001	22,100	4,400	266	977	2,990	13,200	NA	NA	NA	NA	NA	NA	174.61	13.05	NA	161.56	NA	1.3	-40
MW-3	04/09/2001	33,800	7,100	147	1,700	2,660	13,000	NA	NA	NA	NA	NA	NA	174.61	13.59	NA	161.02	NA	0.6	-56
MW-3	07/24/2001	220,000	5,600	1,900	4,400	19,000	NA	12,000	NA	NA	NA	NA	NA	174.61	14.43	NA	160.18	NA	0.4	29
MW-3	10/31/2001	65,000	2,700	510	1,800	7,200	NA	9,800	<20	<20	<20	5,200	<500	174.61	14.59	NA	160.02	NA	0.9	-27
MW-3	01/10/2002	66,000	2,400	490	1,700	6,600	NA	5,500	NA	NA	NA	NA	NA	174.61	12.65	NA	161.96	NA	1.7	-76
MW-3	04/25/2002	55,000	4,600	460	2,400	6,900	NA	8,100	NA	NA	NA	NA	NA	174.61	14.13	NA	160.48	NA	1.2	-96
MW-3	07/18/2002	56,000	3,300	270	1,700	5,000	NA	8,400	NA	NA	NA	NA	NA	174.61	15.48	15.45	159.15	0.03	0.8	-41
MW-3	10/07/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	174.59	14.60	14.40	160.15	0.20	NA	NA
MW-3	01/06/2003	57,000	3,200	330	1,800	5,400	NA	5,100	NA	NA	NA	NA	NA	174.59	11.62	11.60	162.99	0.02	0.4	33
MW-3	04/07/2003	57,000	6,200	500	2,400	6,700	NA	8,200	NA	NA	NA	3,900	NA	174.59	13.80	NA	160.79	NA	0.5	61
MW-3	07/07/2003	28,000	4,900	300	1,500	4,100	NA	7,900	NA	NA	NA	4,700	NA	174.59	14.00	NA	160.59	NA	1.0	-11
MW-3	10/09/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	174.59	14.44	14.36	160.21	0.08	NA	NA
MW-3	10/20/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	174.59	14.68	14.61	159.97	0.07	NA	NA
MW-3	01/14/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	174.59	12.47	12.45	162.14	0.02	NA	NA
MW-3	04/28/2004	32,000	7,300	190	2,100	4,300	NA	3,700	NA	NA	NA	2,500	NA	174.59	13.66	NA	160.93	NA	0.1	-16
MW-3	07/12/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	174.59	14.87	14.83	159.75	0.04	NA	NA
MW-3	10/25/2004	49,000	5,100	61	1,800	3,600	NA	5,400	NA	NA	NA	2,700	NA	174.59	14.12	NA	160.47	NA	2.70	-59
MW-3	01/17/2005	57,000	8,000	190	2,000	4,000	NA	4,600	NA	NA	NA	3,300	NA	174.59	10.59	NA	164.00	NA	0.2	-18
MW-3	04/06/2005	57,000	7,300	180	2,200	3,300	NA	4,100	NA	NA	NA	2,700	NA	174.59	10.58	NA	164.01	NA	0.95	-77
MW-4	11/17/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	164.06	6.62	NA	157.44	NA	NA	NA
MW-4	11/28/1994	2,900	200	17	76	260	NA	NA	NA	NA	NA	NA	NA	164.06	6.11	NA	157.95	NA	NA	NA
MW-4	01/13/1995	1,900	130	5.6	13	40	NA	NA	NA	NA	NA	NA	NA	164.06	6.05	NA	158.01	NA	NA	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
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**Oakland, CA**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
MW-4	04/12/1995	680	150	<2.0	10	13	NA	NA	NA	NA	NA	NA	NA	164.06	6.31	NA	157.75	NA	NA	NA
MW-4	07/25/1995	340	100	0.8	8.8	3	NA	NA	NA	NA	NA	NA	NA	164.06	7.36	NA	156.70	NA	NA	NA
MW-4	10/18/1995	150	31	<0.5	3.5	0.8	NA	NA	NA	NA	NA	NA	NA	164.06	8.54	NA	155.52	NA	NA	NA
MW-4	01/17/1996	290	14	<0.5	1.8	0.8	NA	NA	NA	NA	NA	NA	NA	164.06	8.48	NA	155.58	NA	NA	NA
MW-4	04/25/1996	<500	65	<5	<5	<5	1,700	NA	NA	NA	NA	NA	NA	164.06	7.40	NA	156.66	NA	NA	NA
MW-4 (D)	04/25/1996	<500	66	<5	8.7	<5	1,500	NA	NA	NA	NA	NA	NA	164.06	7.40	NA	156.66	NA	NA	NA
MW-4	07/17/1996	<500	84	<5.0	6.5	<5.0	1,500	NA	NA	NA	NA	NA	NA	164.06	7.75	NA	156.31	NA	NA	NA
MW-4 (D)	07/17/1996	<500	54	<5.0	<5.0	<5.0	1,700	2,100	NA	NA	NA	NA	NA	164.06	7.75	NA	156.31	NA	NA	NA
MW-4	10/01/1996	<500	1.9	<5.0	<5.0	<5.0	3,000	NA	NA	NA	NA	NA	NA	164.06	8.82	NA	155.24	NA	NA	NA
MW-4	01/22/1997	580	130	<2.5	18	5.2	1,200	NA	NA	NA	NA	NA	NA	164.06	7.51	NA	156.55	NA	NA	NA
MW-4	04/08/1997	770	200	7	26	55	1,500	8	NA	NA	NA	NA	NA	164.06	7.18	NA	156.88	NA	NA	NA
MW-4	07/08/1997	570	78	<5.0	14	11	1,200	NA	NA	NA	NA	NA	NA	164.06	9.00	NA	155.06	NA	NA	NA
MW-4 (D)	07/08/1997	640	81	<5.0	16	19	1,600	NA	NA	NA	NA	NA	NA	164.06	9.00	NA	155.06	NA	NA	NA
MW-4	10/08/1997	<500	40	<5.0	7.4	5.4	1,400	NA	NA	NA	NA	NA	NA	164.06	8.97	NA	155.09	NA	NA	NA
MW-4 (D)	10/08/1997	<500	36	<5.0	5.9	<5.0	1,400	NA	NA	NA	NA	NA	NA	164.06	8.97	NA	155.09	NA	NA	NA
MW-4	01/08/1998	<1,000	55	<10	13	<10	2,000	NA	NA	NA	NA	NA	NA	164.06	7.90	NA	156.16	NA	NA	NA
MW-4	04/13/1998	350	110	2.4	20	26	<2.5	NA	NA	NA	NA	NA	NA	164.06	7.35	NA	156.71	NA	NA	NA
MW-4	07/17/1998	210	66	0.78	5.4	9.8	1,700	NA	NA	NA	NA	NA	NA	164.06	6.95	NA	157.11	NA	NA	NA
MW-4	10/02/1998	<50	0.69	<0.50	<0.50	<0.50	2,900	NA	NA	NA	NA	NA	NA	164.06	7.35	NA	156.71	NA	NA	NA
MW-4	02/03/1999	560	120	2.5	29	34	6,800	NA	NA	NA	NA	NA	NA	164.06	7.71	NA	156.35	NA	0.9	NA
MW-4	04/29/1999	390	80	1.9	13	19	7,000	8,360	NA	NA	NA	NA	NA	164.06	7.83	NA	156.23	NA	1.1	-125
MW-4	07/23/1999	460	93.6	8.40	25.2	28.8	3,760	6,000*	NA	NA	NA	NA	NA	164.06	11.33	NA	152.73	NA	0.9	NA
MW-4	11/01/1999	77.3	0.520	<0.500	<0.500	<0.500	539	NA	NA	NA	NA	NA	NA	164.06	10.66	NA	153.40	NA	2.8	3
MW-4	01/17/2000	160	27	<0.50	12	6.3	12,000	NA	NA	NA	NA	NA	NA	164.06	10.15	NA	153.91	NA	3.9	-17
MW-4	04/17/2000	<500	26	6.38	9.35	10.4	9,070	NA	NA	NA	NA	NA	NA	164.06	10.10	NA	153.96	NA	1.7	-129
MW-4	07/26/2000	<500	22.7	<5.00	7.59	6.96	7,660	NA	NA	NA	NA	NA	NA	164.06	10.09	NA	153.97	NA	1.4	-137
MW-4	10/12/2000	172	19.8	<0.500	7.47	4.50	8,290	NA	NA	NA	NA	NA	NA	164.06	9.35	NA	154.71	NA	3.5	529
MW-4	01/15/2001	53.6	1.50	<0.500	2.45	1.80	9,260	NA	NA	NA	NA	NA	NA	164.06	8.77	NA	155.29	NA	2.3	53
MW-4	04/09/2001	<500	<5.00	<5.00	<5.00	5.52	10,300	NA	NA	NA	NA	NA	NA	164.06	7.75	NA	156.31	NA	1.0	-133
MW-4	07/24/2001	58	3.8	<0.50	3.2	2.9	NA	1,700	NA	NA	NA	NA	NA	164.06	10.07	NA	153.99	NA	0.5	106
MW-4	10/31/2001	<1,000	<10	<10	<10	<10	NA	7,400	NA	NA	NA	NA	NA	164.06	9.97	NA	154.09	NA	0.8	22
MW-4	01/10/2002	<2,000	<20	<20	<20	<20	NA	12,000	NA	NA	NA	NA	NA	164.06	8.53	NA	155.53	NA	8.9	224
MW-4	04/25/2002	<2,000	<20	<20	<20	<20	NA	7,900	NA	NA	NA	NA	NA	164.06	7.33	NA	156.73	NA	3.6	-84
MW-4	07/18/2002	<2,000	<20	<20	<20	<20	NA	7,200	NA	NA	NA	NA	NA	164.06	9.05	NA	155.01	NA	1.7	120

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Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
MW-4	10/07/2002	<1,000	<10	<10	<10	<10	NA	3,300	NA	NA	NA	NA	NA	164.03	9.06	NA	154.97	NA	2.5	33
MW-4	01/06/2003	<500	21	<5.0	<5.0	<5.0	NA	2,500	NA	NA	NA	NA	NA	164.03	7.09	NA	156.94	NA	0.5	55
MW-4	04/07/2003	<2,500	<25	<25	<25	<50	NA	1,700	NA	NA	NA	5,900	NA	164.03	8.26	NA	155.77	NA	1.2	69
MW-4	07/07/2003	<2,500	<25	<25	<25	<50	NA	860	NA	NA	NA	6,900	NA	164.03	8.92	NA	155.11	NA	0.5	-3
MW-4	10/09/2003	<500	<5.0	<5.0	<5.0	<10	NA	420	NA	NA	NA	6,700	NA	164.03	8.91	NA	155.12	NA	0.7	171
MW-4	01/14/2004	<1,000	24	<10	<10	<20	NA	500	NA	NA	NA	7,200	NA	164.03	8.34	NA	155.69	NA	1.2	140
MW-4	04/28/2004	<500	6.0	<5.0	<5.0	<10	NA	310	NA	NA	NA	5,200	NA	164.03	7.55	NA	156.48	NA	0.4	69
MW-4	07/12/2004	<500	11	<5.0	7.8	<10	NA	370	<20	<20	<20	5,900	<500	164.03	8.12	NA	155.91	NA	0.5	142
MW-4	10/25/2004	<500	<5.0	<5.0	5.6	<10	NA	280	NA	NA	NA	4,300	NA	164.03	7.85	NA	156.18	NA	1.90	-70
MW-4	01/17/2005	<1,000	56	<10	10	<20	NA	380	NA	NA	NA	8,400	NA	164.03	6.08	NA	157.95	NA	0.4	6
MW-4	04/06/2005	<1,000	52	<10	11	<20	NA	450	NA	NA	NA	12,000	NA	164.03	8.10	NA	155.93	NA	0.49	11
MW-5	01/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.62	NA	NA	NA	NA	NA
MW-5	01/10/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	110	NA	NA	NA	NA	NA	164.06	5.88	NA	158.18	NA	3.3	172
MW-5	04/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	73	NA	NA	NA	NA	NA	164.06	6.81	NA	157.25	NA	0.3	-44
MW-5	07/18/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	75	NA	NA	NA	NA	NA	164.06	7.38	NA	156.68	NA	0.4	170
MW-5	10/07/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	41	NA	NA	NA	NA	NA	164.14	6.75	NA	157.39	NA	1.5	16
MW-5	01/06/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	81	NA	NA	NA	NA	NA	164.14	5.96	NA	158.18	NA	0.6	166
MW-5	04/07/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	77	NA	NA	NA	28	NA	164.14	6.51	NA	157.63	NA	0.8	174
MW-5	07/07/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	32	NA	NA	NA	23	NA	164.14	6.44	NA	157.70	NA	0.3	-17
MW-5	10/09/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	59	NA	NA	NA	40	NA	164.14	7.05	NA	157.09	NA	0.9	17
MW-5	01/14/2004	<50	<0.50	0.76	<0.50	<1.0	NA	47	NA	NA	NA	17	NA	164.14	6.29	NA	157.85	NA	1.6	209
MW-5	04/28/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	31	NA	NA	NA	11	NA	164.14	6.84	NA	157.30	NA	0.4	136
MW-5	07/12/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	47	<2.0	<2.0	<2.0	12	<50	164.14	7.57	NA	156.57	NA	0.4	90
MW-5	10/25/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	41	NA	NA	NA	13	NA	164.14	6.50	NA	157.64	NA	1.74	-21
MW-5	01/17/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	41	NA	NA	NA	12	NA	164.14	5.83	NA	158.31	NA	0.1	-7
MW-5	04/06/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	12	NA	NA	NA	<5.0	NA	164.14	5.91	NA	158.23	NA	1.05	-62
TB-1	04/29/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.00	NA	NA	NA	3.8	-132
TB-1	11/01/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.65	NA	NA	NA	0.2	-165
TB-1	01/17/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.72	NA	NA	NA	0.8	-178
TB-1	04/17/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.65	NA	NA	NA	0.5	-152
TB-1	07/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.13	NA	NA	NA	1.0	-124
TB-1	10/12/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.20	NA	NA	NA	0.7	-73

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**4255 MacArthur Boulevard**  
**Oakland, CA**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
TB-1	01/15/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.09	NA	NA	NA	1.2	-118
TB-1	04/09/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.96	NA	NA	NA	1.0	-72
TB-1	07/24/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.03	NA	NA	NA	1.4	31
TB-1	10/31/2001	1,000	85	<10	<10	42	NA	4,100	NA	NA	NA	NA	NA	NA	5.89	NA	NA	NA	1.8	88
TB-1	01/10/2002	5,000	410	390	65	620	NA	9,000	NA	NA	NA	NA	NA	NA	7.47	NA	NA	NA	2.0	95
TB-1	04/25/2002	5,000	780	60	49	91	NA	6,000	NA	NA	NA	NA	NA	NA	11.71	NA	NA	NA	1.7	-136
TB-1	07/18/2002	insufficient water		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.50	NA	NA	NA	NA	NA
TB-1	10/07/2002	4,600	480	36	98	200	NA	4,000	NA	NA	NA	NA	NA	NA	12.95	NA	NA	NA	1.6	-48
TB-1	01/06/2003	130	30	<0.50	<0.50	0.78	NA	330	NA	NA	NA	NA	NA	NA	5.56	NA	NA	NA	0.4	-20
TB-2	04/29/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.76	NA	NA	NA	4.2	-108
TB-2	11/01/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.33	NA	NA	NA	0.5	-148
TB-2	01/17/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.79	NA	NA	NA	0.7	-162
TB-2	04/17/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.75	NA	NA	NA	0.9	-121
TB-2	07/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.73	NA	NA	NA	0.9	-85
TB-2	10/12/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.05	NA	NA	NA	0.6	-47
TB-2	01/15/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.87	NA	NA	NA	0.7	-91
TB-2	04/09/2001	46,600	1,240	1,310	1,110	12,100	31,300	NA	NA	NA	NA	NA	NA	NA	3.76	NA	NA	NA	0.8	-24
TB-2	07/24/2001	11,000	630	<25	310	200	NA	11,000	NA	NA	NA	NA	NA	NA	4.75	NA	NA	NA	0.4	-51
TB-2	10/31/2001	7,500	530	1,500	100	500	NA	2,500	NA	NA	NA	NA	NA	NA	4.24	NA	NA	NA	0.6	-7
TB-2	01/10/2002	<5,000	480	47	34	110	NA	12,000	NA	NA	NA	NA	NA	NA	6.26	NA	NA	NA	1.3	-81
TB-2	04/25/2002	4,700	470	140	<20	80	NA	7,400	NA	NA	NA	NA	NA	NA	11.78	NA	NA	NA	0.9	-107
TB-2	07/18/2002	7,500	630	650	<25	390	NA	44,000	NA	NA	NA	NA	NA	NA	12.34	NA	NA	NA	0.9	-67
TB-2	10/07/2002	<10,000	580	<100	<100	180	NA	30,000	NA	NA	NA	NA	NA	NA	11.62	NA	NA	NA	1.0	-41
TB-2	01/06/2003	120	4.8	<0.50	<0.50	2.0	NA	220	NA	NA	NA	NA	NA	NA	4.35	NA	NA	NA	0.5	-515

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**4255 MacArthur Boulevard**  
**Oakland, CA**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
---------	------	----------------	-------------	-------------	-------------	-------------	------------------------	------------------------	----------------	----------------	----------------	---------------	-------------------	--------------	----------------------------	--------------------------	--------------------------	---------------------------	------------------------	------------------------

**Abbreviations:**

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to July 24, 2001, analyzed by EPA Method 8015.

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to July 24, 2001, analyzed by EPA Method 8020.

MTBE = Methyl tertiary butyl ether

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

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

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

TBA = Tertiary butyl alcohol, analyzed by EPA Method 8260

TOC = Top of Casing Elevation

SPH = Separate-Phase Hydrocarbons

GW = Groundwater

ug/L = Parts per billion

MSL = Mean sea level

ft. = Feet

<n = Below detection limit

(D) = Duplicate sample

NA = Not applicable

DO = Dissolved Oxygens

ppm = Parts per million

ORP = Oxidation Reduction Potential

mV = Millivolts

**Notes:**

a = Ground water surface had a sheen when sampled.

b = MTBE value is estimated by Sequoia Analytical of Redwood City, CA.

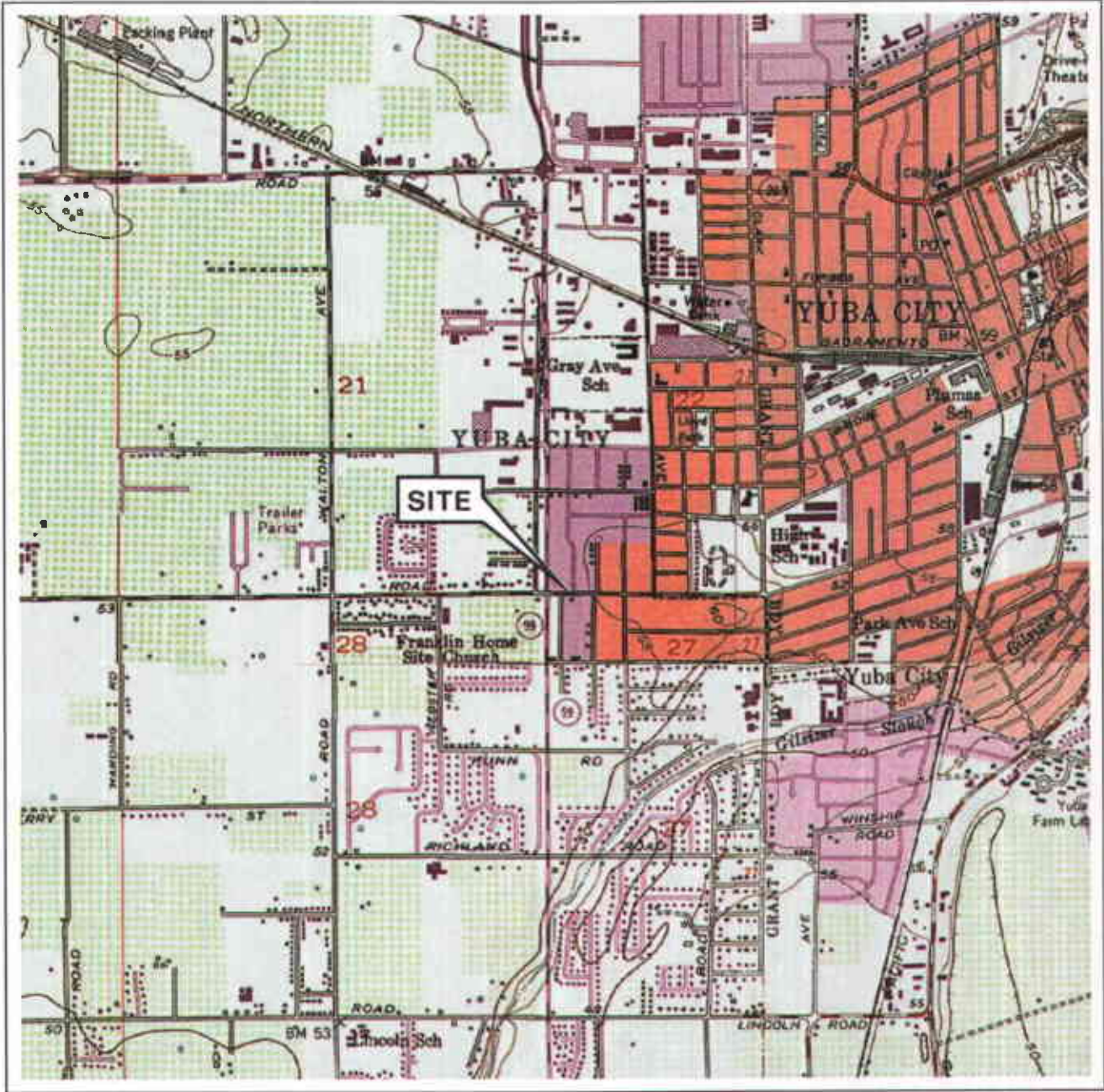
\* = Sample analyzed outside the EPA recommended holding time.

Ethanol analyzed by EPA Method 8260B.

Site surveyed March 14, 2002 by Virgil Chavez Land Surveying of Vallejo, CA.

When separate-phase hydrocarbons are present, ground water elevation is adjusted using the relation: Corrected ground water elevation = Top-of-Casing Elevation - Depth to Water + (0.8 x Hydrocarbon Thickness).

# FIGURES



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



SCALE 1:24,000



**SOURCE:**

United States Geological Survey  
7.5 Minute Topographic Map:  
Yuba City Quadrangle



QUADRANGLE  
LOCATION

**VICINITY MAP**

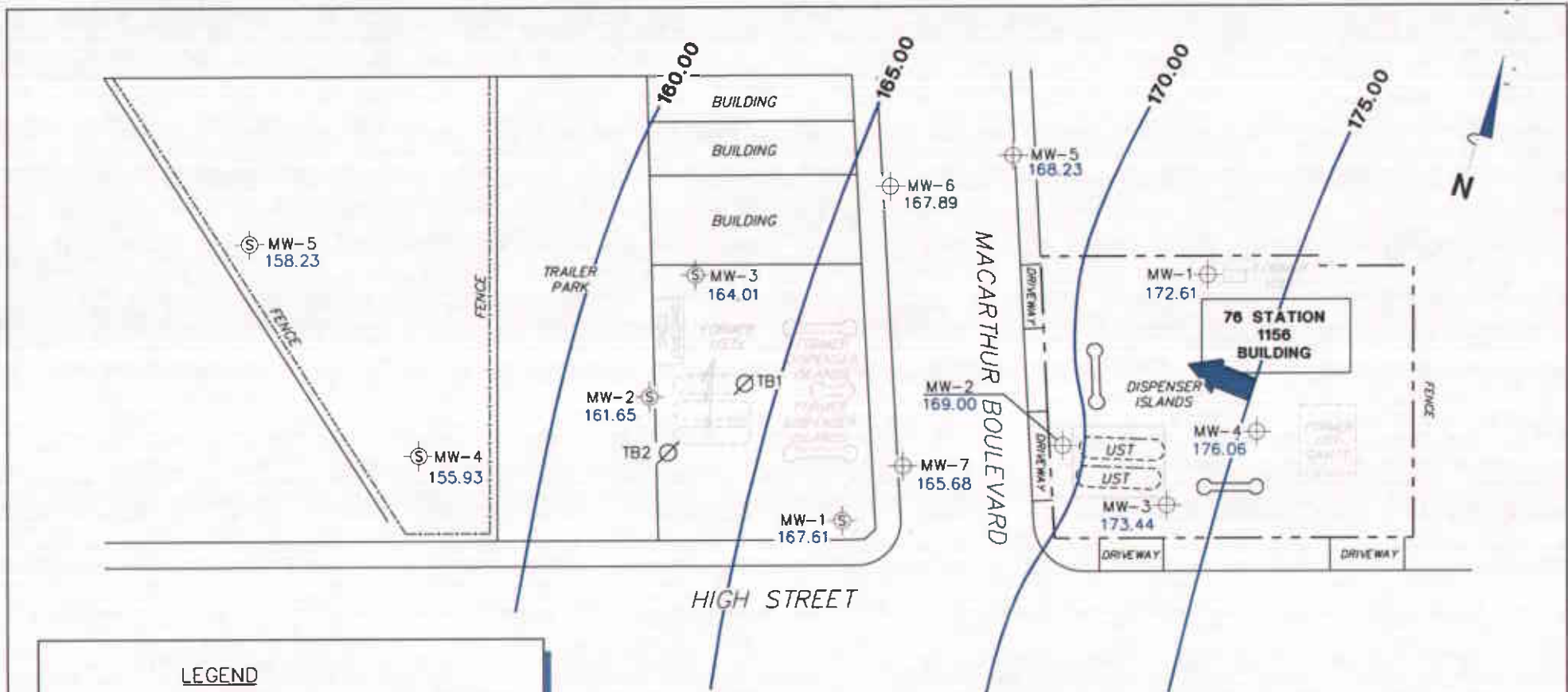
Circle K Store 01156  
1263 Franklin Avenue  
Yuba City, California

**FIGURE 1**

PS = 1:1

**TRC**





**LEGEND**

- MW-7 76 Station Monitoring Well with Groundwater Elevation (feet)
- MW-5 Shell Monitoring Well with Groundwater Elevation
- TB2 Destroyed Shell Well
- 175.00 — Groundwater Elevation Contour
- General Direction of Groundwater Flow

**NOTES:**  
 Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. UST = underground storage tank. Shell Station data provided by Blaine Tech.

**GROUNDWATER ELEVATION CONTOUR MAP**  
 April 6, 2005

76 Station 1156  
 4276 MacArthur Boulevard  
 Oakland, California

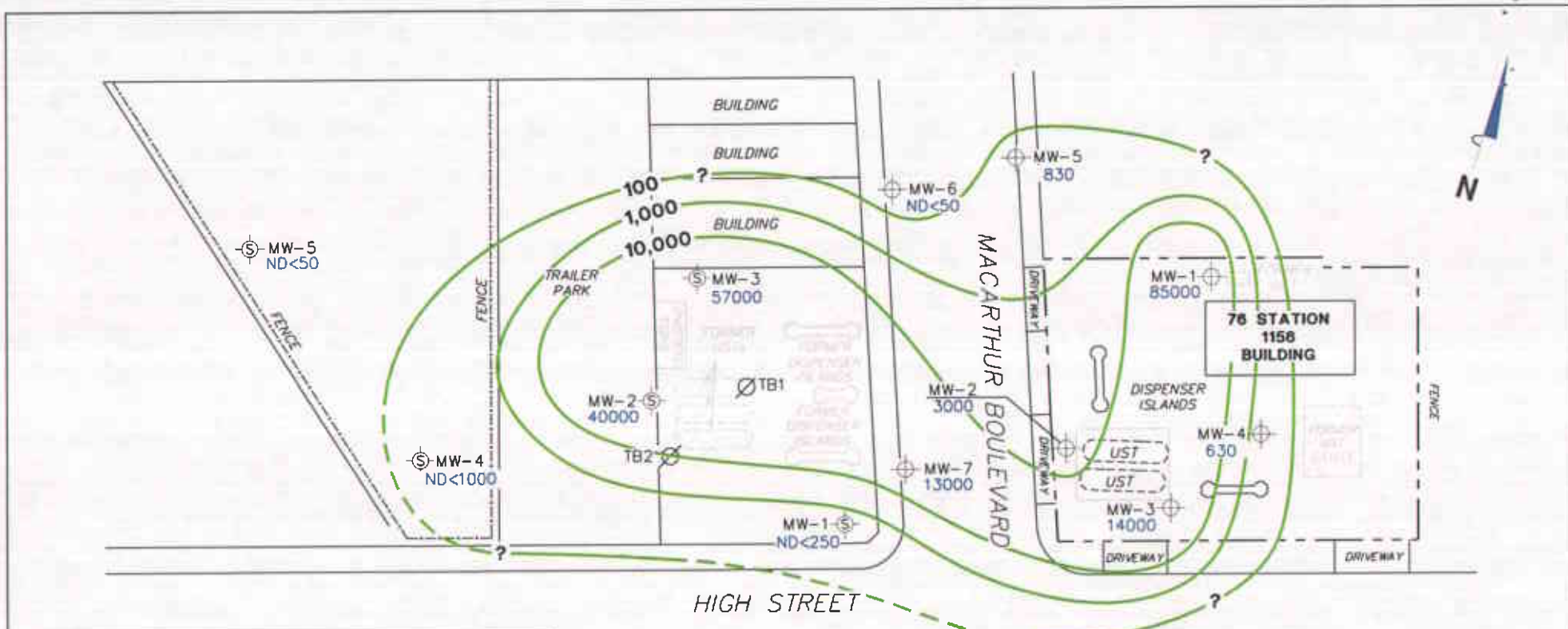


**FIGURE 2**

PIS=1; 1156-003







**LEGEND**

- MW-7 76 Station Monitoring Well with Dissolved-Phase TPH-G Concentration ( $\mu\text{g/l}$ )
- MW-5 Shell Monitoring Well with Dissolved-Phase TPPH Concentration ( $\mu\text{g/l}$ )
- TB2 Destroyed Shell Well
- 10,000 Dissolved-Phase TPH-G Contour ( $\mu\text{g/l}$ )

**NOTES:**

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. TPH-G = total petroleum hydrocarbons as gasoline. TPPH = total purgable petroleum hydrocarbons. ND = not detected at limit indicated on official laboratory report.  $\mu\text{g/l}$  = micrograms per liter. Dashes indicate contour based on non-detect at elevated detection limit. TPH-G results obtained using EPA Method 8015. Shell Station data provided by Blaine Tech; TPPH results obtained using EPA Method 8260B.

**DISSOLVED-PHASE TPH-G CONCENTRATION MAP**  
April 6, 2005

76 Station 1156  
4276 MacArthur Boulevard  
Oakland, California

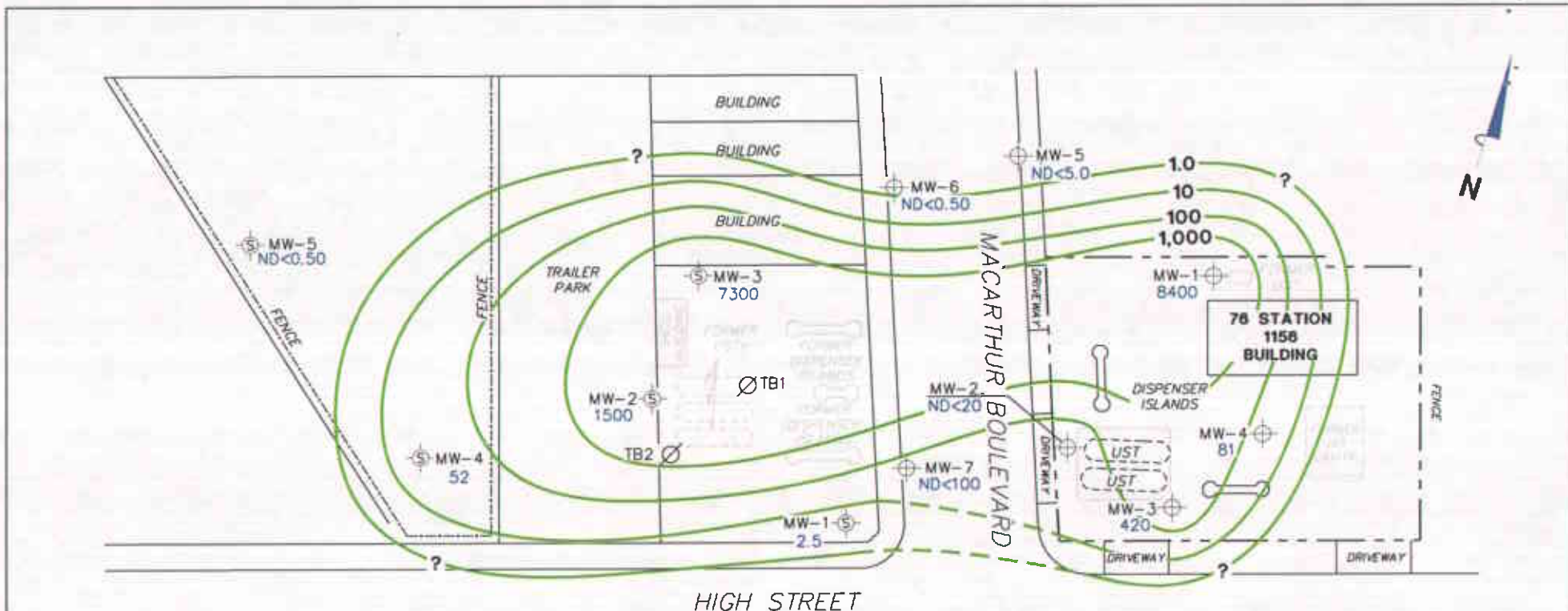


SCALE (FEET)



**FIGURE 3**

PS=1:1 1156-003



**LEGEND**

- MW-7 ⊕ 76 Station Monitoring Well with Dissolved-Phase Benzene Concentration ( $\mu\text{g/l}$ )
- MW-5 ⊕ Shell Monitoring Well
- TB2 ∅ Destroyed Shell Well
- 1,000 — Dissolved-Phase Benzene Contour ( $\mu\text{g/l}$ )

**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. UST = underground storage tank. Shell Station data provided by Blaine Tech. Dashes indicate contour based on non-detect at elevated detection limit.

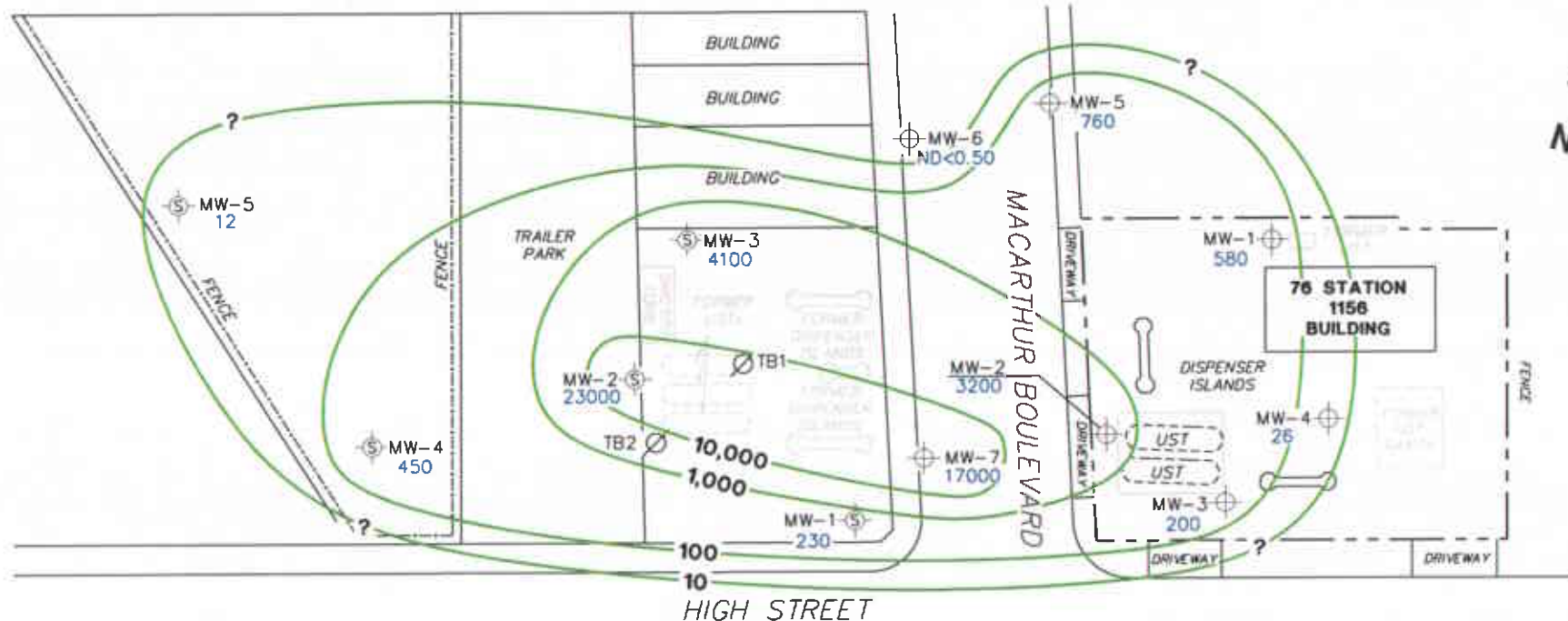
**DISSOLVED-PHASE BENZENE CONCENTRATION MAP**  
**April 6, 2005**

76 Station 1156  
 4276 MacArthur Boulevard  
 Oakland, California

**FIGURE 4**



PS=1:1 1156-003



**LEGEND**

- MW-7 ⊕ 76 Station Monitoring Well with Dissolved-Phase MTBE Concentration (µg/l)
- MW-5 ⊙ Shell Monitoring Well
- TB2 ∅ Destroyed Shell Well
- 10,000 — Dissolved-Phase MTBE Contour (µg/l)

**NOTES:**

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. MTBE = methyl tertiary butyl ether. µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report. UST = underground storage tank. Shell station data provided by Blaine Tech. Results obtained using EPA Method 8260B.

**DISSOLVED-PHASE MTBE CONCENTRATION MAP**  
April 6, 2005

76 Station 1156  
4276 MacArthur Boulevard  
Oakland, California



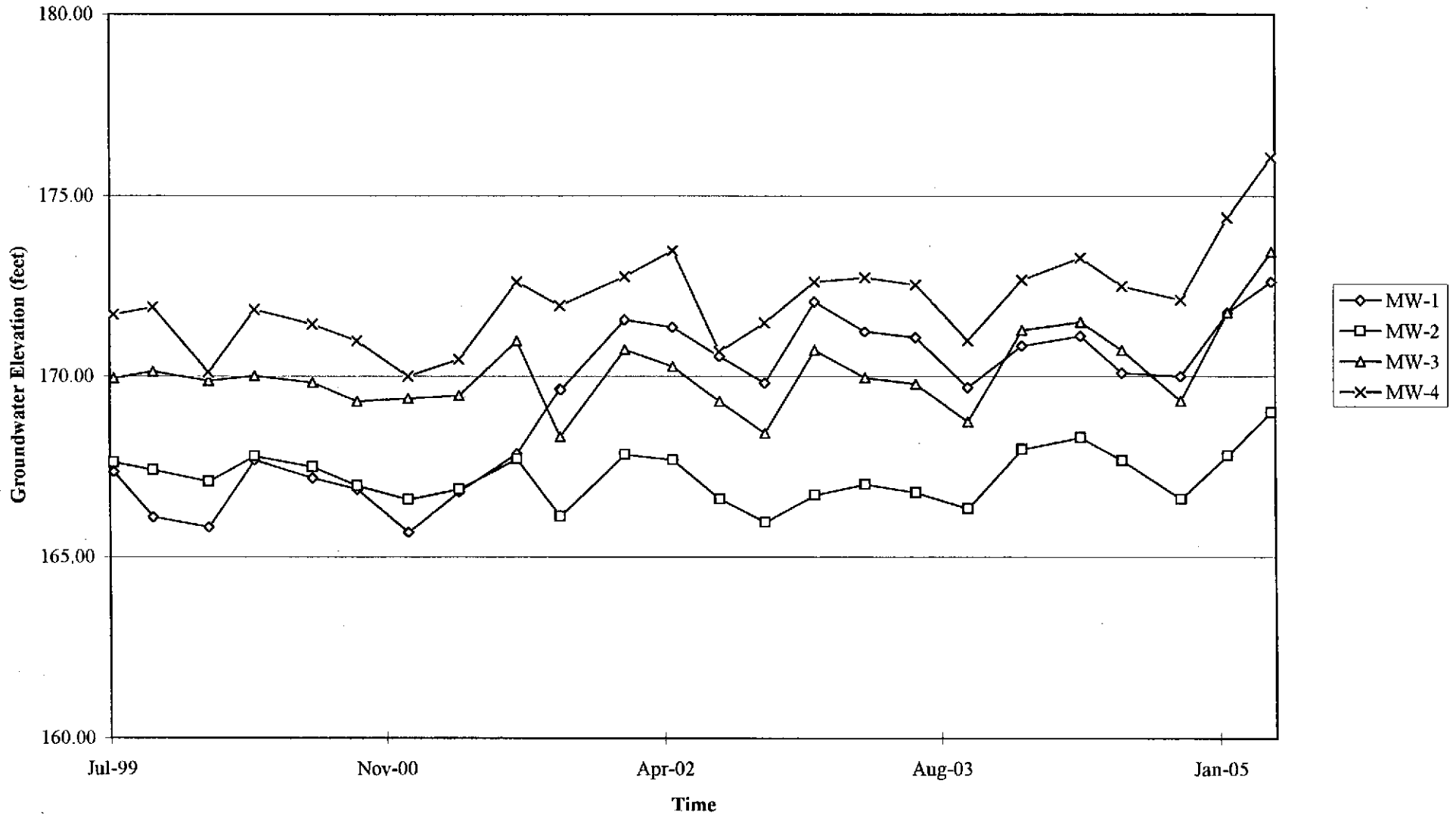
**TRC**

**FIGURE 5**

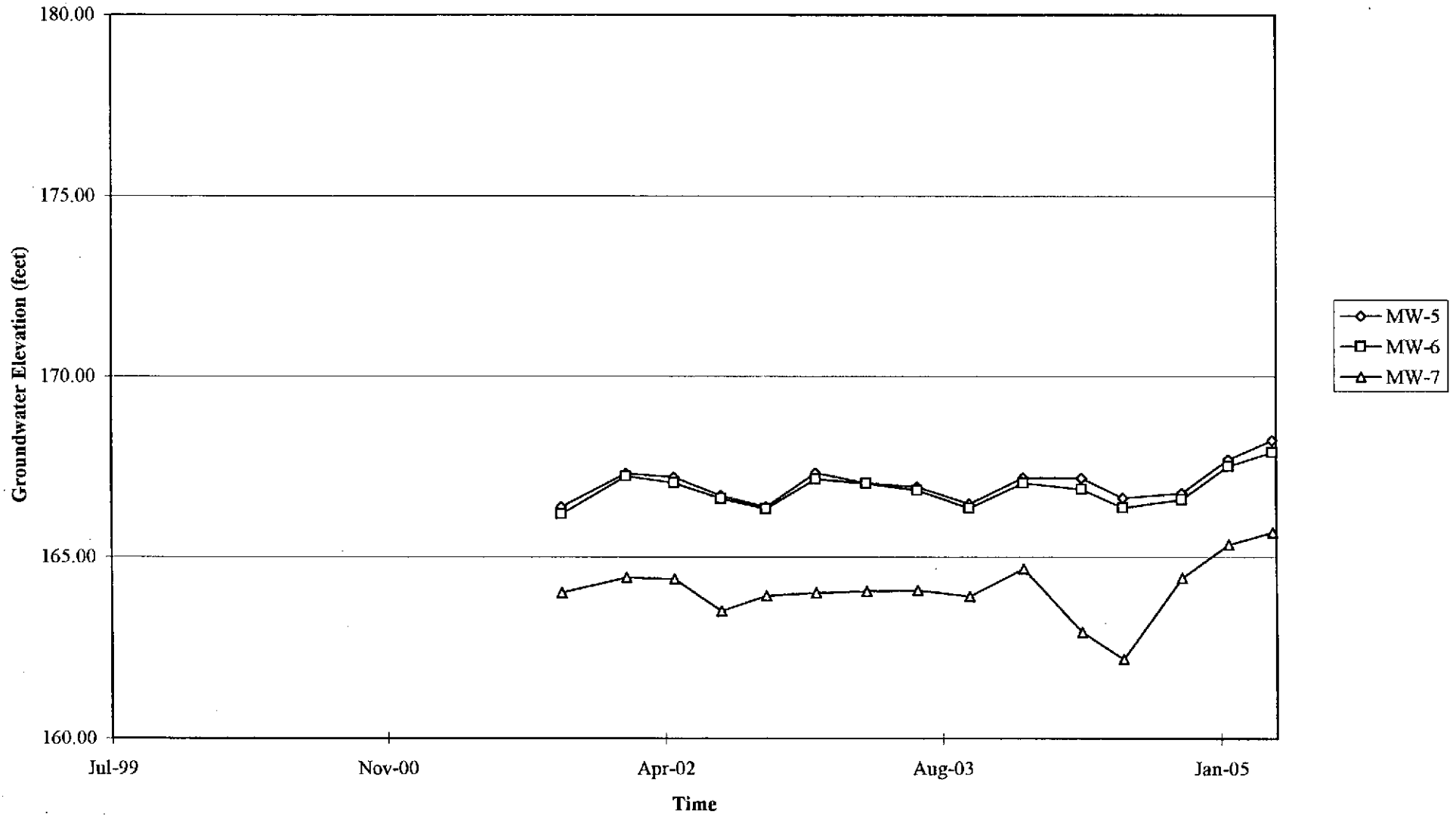
PS=1.1 1156-003

# GRAPHS

Groundwater Elevations vs. Time  
76 Station 1156

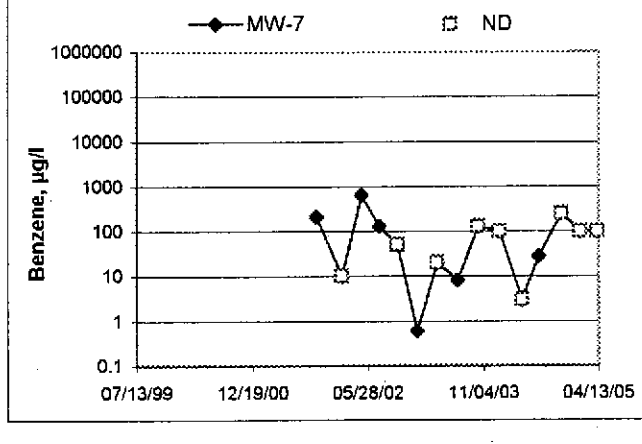
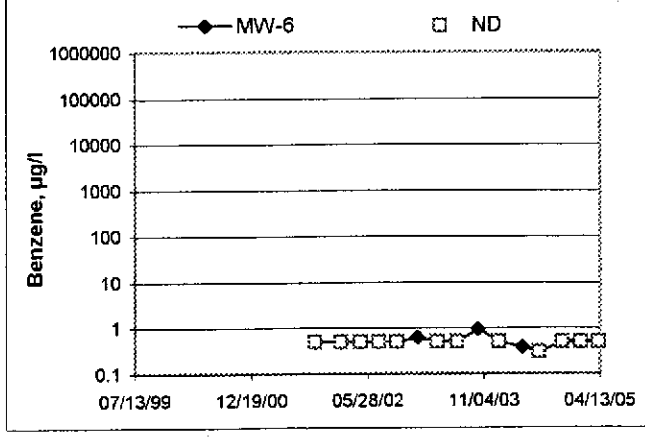
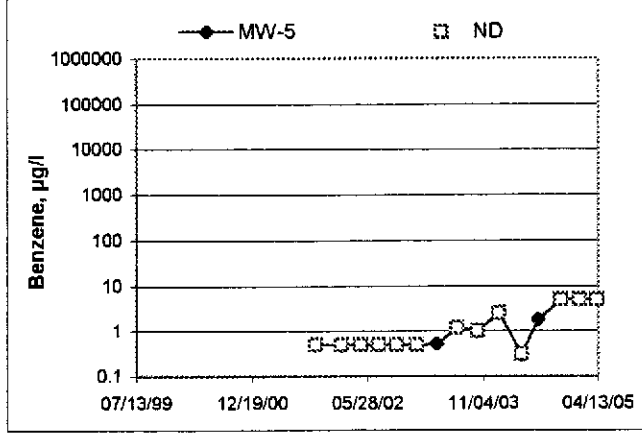
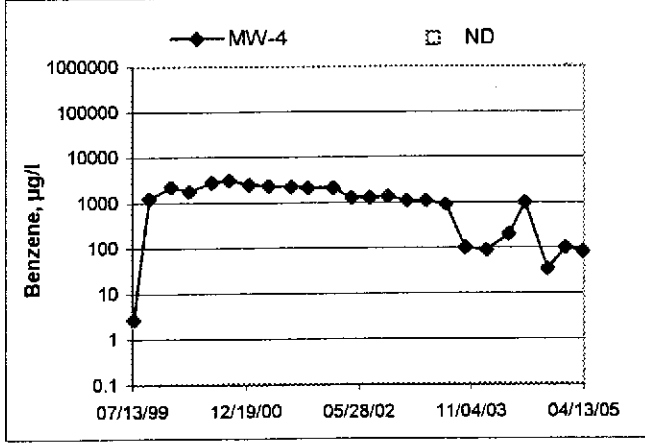
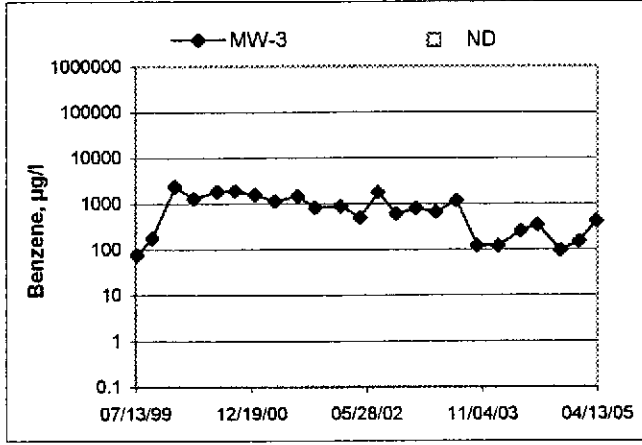
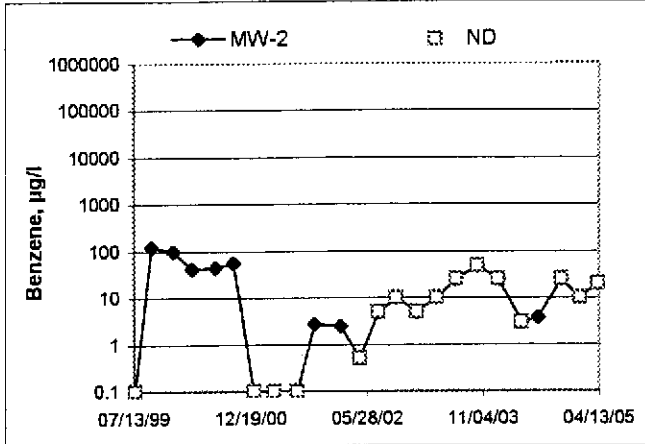
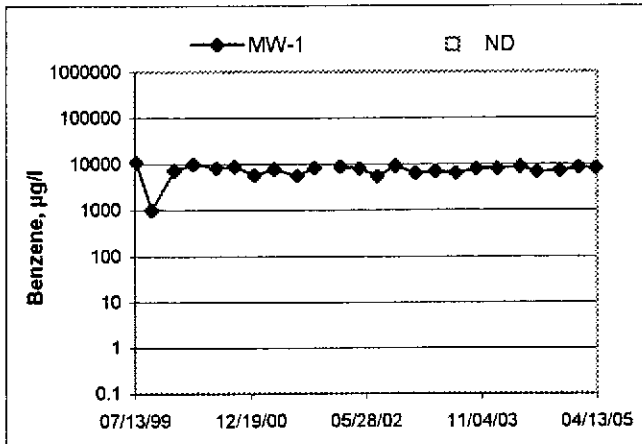


Groundwater Elevations vs. Time  
76 Station 1156

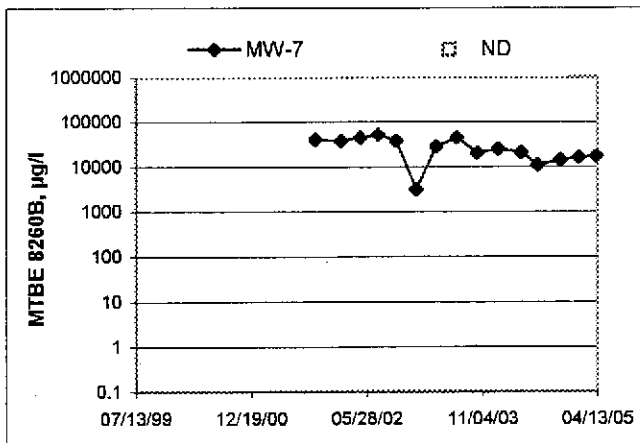
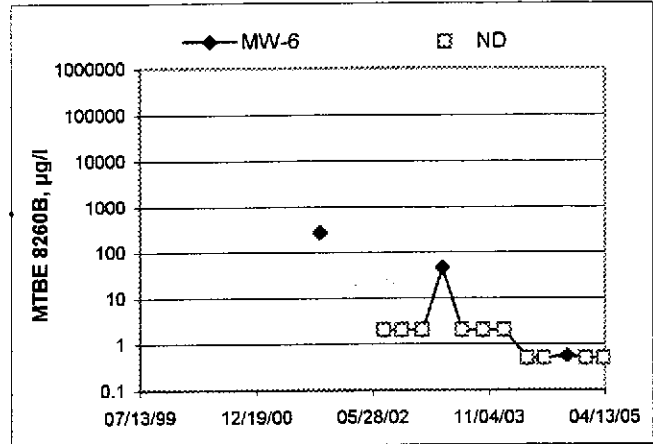
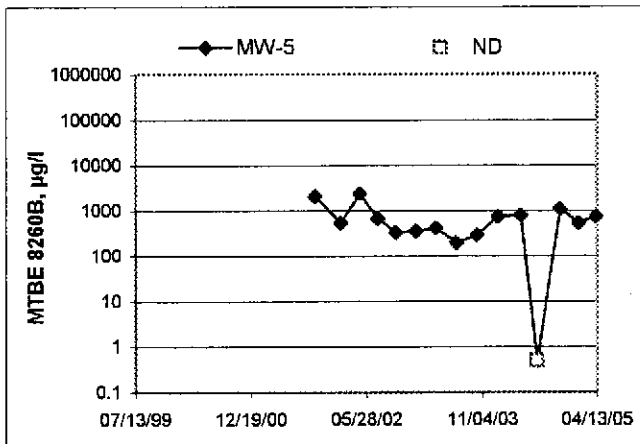
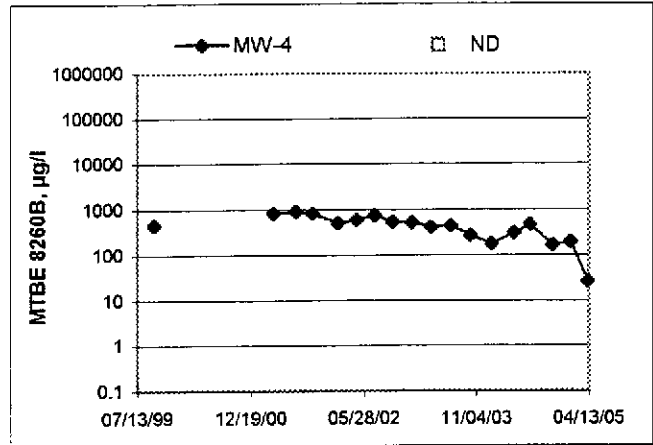
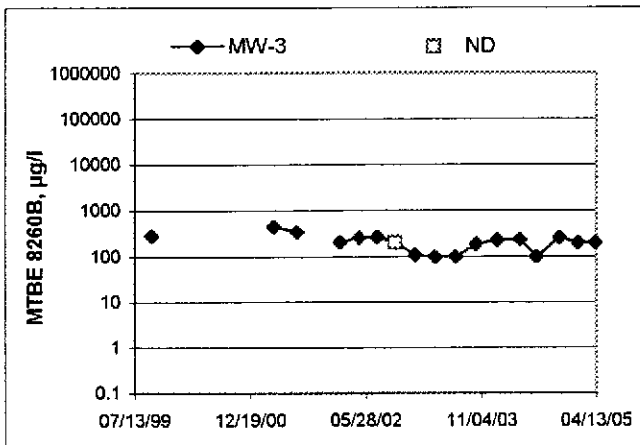
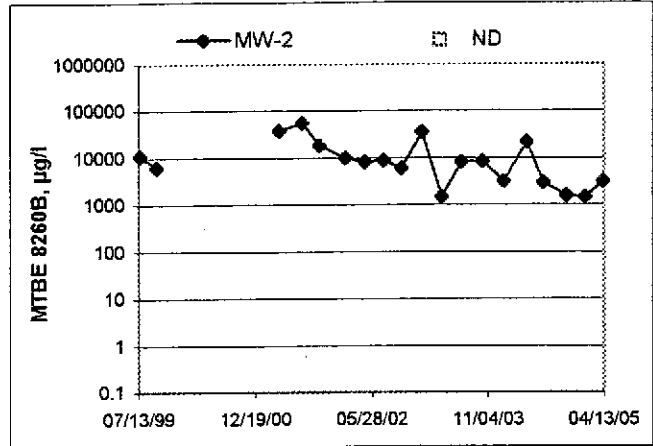
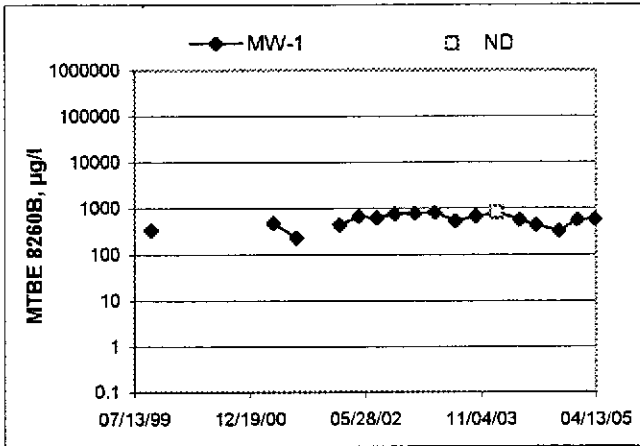




## Benzene Concentrations vs Time 76 Station 1156



**MTBE 8260B Concentrations vs Time**  
76 Station 1156





## GENERAL FIELD PROCEDURES

### **Groundwater Monitoring and Sampling Assignments**

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

### **Fluid Level Measurements**

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

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

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

### **Purging and Groundwater Parameter Measurement**

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

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

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

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

### **Groundwater Sample Collection**

After wells are purged, or not purged, according to TSR instructions, samples are collected for laboratory analysis. For wells that have been purged using conventional pump or bail methods,

sampling is conducted after the well has recovered to 80 percent of its original volume or after two hours if the well does not recover to at least 80 percent. If there is insufficient recharge of water in the well after two hours, the well is not sampled.

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

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

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

#### **Sequence of Gauging, Purging, and Sampling**

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

#### **Decontamination**

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

#### **Exceptions**

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



GROUNDWATER SAMPLING FIELD NOTES

Technician: ALFX

Site: 115L0

Project No.: 41050001

Date: 040605

Well No.: MW-4

Purge Method: DIA

Depth to Water (feet): 2.90

Depth to Product (feet): 6

Total Depth (feet): 25.24

LPH & Water Recovered (gallons): 2.1

Water Column (feet): 22.34

Casing Diameter (Inches): 4

80% Recharge Depth (feet): 7.36

1 Well Volume (gallons): 4

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F. C)	pH	Turbidity	D.O.
0742			4	125.2	21.0	6.37		
			8	173.3	21.3	5.48		
	0747		12	349	21.6	5.21		
Static at Time Sampled			Total Gallons Purged		Time Sampled			
7.92			12		0959			
Comments: <u>DID NOT RECOVER IN 2HRS</u>								

Well No.: MW-3

Purge Method: DIA

Depth to Water (feet): 4.69

Depth to Product (feet): 6

Total Depth (feet): 24.71

LPH & Water Recovered (gallons): 6

Water Column (feet): 20.02

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 8.69

1 Well Volume (gallons): 3

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F. C)	pH	Turbidity	D.O.
0754			3	540	21.2	5.82		
			6	523	21.0	6.27		
	0757		9	535	21.2	6.43		
Static at Time Sampled			Total Gallons Purged		Time Sampled			
7.10			9		0936			
Comments:								

# GROUNDWATER SAMPLING FIELD NOTES

Technician: ALEX

Site: 1156

Project No.: 41052201

Date: 040605

Well No.: MW-10

Purge Method: DIA

Depth to Water (feet): 1.15

Depth to Product (feet): 6

Total Depth (feet): 24.91

LPH & Water Recovered (gallons): 0

Water Column (feet): 23.76

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 5.90

1 Well Volume (gallons): 4

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	Turbidity	D.O.
0647			4	495	18.7	6.73		
			8	482	20.3	6.74		
	0650		12	489	20.8	6.76		
Static at Time Sampled			Total Gallons Purged		Time Sampled			
= 1.35			12		0836			
Comments:								

Well No.: MW-5

Purge Method: DIA

Depth to Water (feet): 0.95

Depth to Product (feet): 6

Total Depth (feet): 25.29

LPH & Water Recovered (gallons): 0

Water Column (feet): 24.34

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 5.81

1 Well Volume (gallons): 4

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	Turbidity	D.O.
0709			4	508	19.8	7.15		
			8	524	21.3	7.05		
	0713		12	521	21.7	6.90		
Static at Time Sampled			Total Gallons Purged		Time Sampled			
1.21			12		0850			
Comments:								

# GROUNDWATER SAMPLING FIELD NOTES

Technician: AKV

Site: 1150

Project No.: 91050001

Date: 04/06/05

Well No.: MW-2

Purge Method: PIA

Depth to Water (feet): 4.58

Depth to Product (feet): 6

Total Depth (feet): 25.12

LPH & Water Recovered (gallons): 0

Water Column (feet): 20.54

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 8.68

1 Well Volume (gallons): 3

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F. C)	pH	Turbidity	D.O.
0731			3	490	21.2	6.91		
			6	496	21.1	6.79		
	0735		9	494	21.1	6.70		
		Static at Time Sampled		Total Gallons Purged		Time Sampled		
		10.98		9		0948		
Comments: <u>DID NOT RECOVER IN 2HRS.</u>								

Well No.: MW-7

Purge Method: DIA

Depth to Water (feet): 5.96

Depth to Product (feet): 6

Total Depth (feet): 25.42

LPH & Water Recovered (gallons): 0

Water Column (feet): 19.46

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 9.85

1 Well Volume (gallons): 3

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F. C)	pH	Turbidity	D.O.
0657			3	581	20.0	6.76		
			6	587	20.1	6.69		
	0700		9	589	21.5	6.68		
		Static at Time Sampled		Total Gallons Purged		Time Sampled		
		7.58		9		0907		
Comments:								

# GROUNDWATER SAMPLING FIELD NOTES

Technician: ALEX

Site: 1156

Project No.: 41050001

Date: 090605

Well No.: MW-1

Purge Method: PIA

Depth to Water (feet): 4.93

Depth to Product (feet): 6

Total Depth (feet): 25.05

LPH & Water Recovered (gallons): 6

Water Column (feet): 20.12

Casing Diameter (Inches): 2 1/2

80% Recharge Depth (feet): 8.95

1 Well Volume (gallons): 3

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temperature (F/C)	pH	Turbidity	D.O.
0807			3	672	19.9	7.06		
			6	688	20.6	7.08		
	0811		9	670	20.9	7.12		
Static at Time Sampled			Total Gallons Purged		Time Sampled			
• 692			9		1015			
Comments: _____								

Well No.: \_\_\_\_\_  
 Depth to Water (feet): \_\_\_\_\_  
 Total Depth (feet): \_\_\_\_\_  
 Water Column (feet): \_\_\_\_\_  
 80% Recharge Depth (feet): \_\_\_\_\_

Purge Method: \_\_\_\_\_  
 Depth to Product (feet): \_\_\_\_\_  
 LPH & Water Recovered (gallons): \_\_\_\_\_  
 Casing Diameter (Inches): \_\_\_\_\_  
 1 Well Volume (gallons): \_\_\_\_\_

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

**TRC Alton Geoscience- Irvine**

April 25, 2005

21 Technology Drive  
Irvine, CA 92718

Attn.: Anju Farfan

Project#: 41050001FA20

Project: Conoco Phillips #1156

Site: 4276 Mac Arthor Oakland

Attached is our report for your samples received on 04/07/2005 17:15

This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 05/22/2005 unless you have requested otherwise.

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

You can also contact me via email. My email address is: [dsharma@stl-inc.com](mailto:dsharma@stl-inc.com)

Sincerely,



Dimple Sharma  
Project Manager

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* [www.stl-inc.com](http://www.stl-inc.com) \* CA DHS ELAP# 2496



**Gas/BTEX Compounds by 8015M/8021**

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

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

Project: 41050001FA20

Conoco Phillips #1156

Received: 04/07/2005 17:15

Site: 4276 Mac Arthor Oakland

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
MW-1	04/06/2005 10:15	Water	1
MW-2	04/06/2005 09:48	Water	2
MW-3	04/06/2005 09:36	Water	3
MW-4	04/06/2005 09:59	Water	4
MW-5	04/06/2005 08:50	Water	5
MW-6	04/06/2005 08:36	Water	6
MW-7	04/06/2005 09:07	Water	7

Severn Trent Laboratories, Inc.

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

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

04/20/2005 14:52

**Gas/BTEX Compounds by 8015M/8021**

TRC Alton Geoscience- Irvine

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21 Technology Drive

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

Project: 41050001FA20

Conoco Phillips #1156

Received: 04/07/2005 17:15

Site: 4276 Mac Arthor Oakland

Prep(s): 5030	Test(s): 8015M
5030	8021B
Sample ID: MW-1	Lab ID: 2005-04-0217 - 1
Sampled: 04/06/2005 10:15	Extracted: 4/16/2005 20:01
Matrix: Water	QC Batch#: 2005/04/16-01.05
Analysis Flag: L2 ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	85000	13000	ug/L	250.00	04/16/2005 20:01	
Benzene	8400	130	ug/L	250.00	04/16/2005 20:01	
Toluene	20000	130	ug/L	250.00	04/16/2005 20:01	
Ethyl benzene	3200	130	ug/L	250.00	04/16/2005 20:01	
Xylene(s)	16000	130	ug/L	250.00	04/16/2005 20:01	
MTBE	ND	1300	ug/L	250.00	04/16/2005 20:01	
<b>Surrogate(s)</b>						
Trifluorotoluene	97.2	58-124	%	250.00	04/16/2005 20:01	
4-Bromofluorobenzene-FID	87.0	50-150	%	250.00	04/16/2005 20:01	

**Gas/BTEX Compounds by 8015M/8021**

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Project: 41050001FA20

Conoco Phillips #1156

Received: 04/07/2005 17:15

Site: 4276 Mac Arthor Oakland

Prep(s): 5030	Test(s): 8015M
5030	8021B
Sample ID: MW-2	Lab ID: 2005-04-0217 - 2
Sampled: 04/06/2005 09:48	Extracted: 4/18/2005 13:05
Matrix: Water	QC Batch#: 2005/04/18-01.05
Analysis Flag: L2 ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	3000	2000	ug/L	40.00	04/18/2005 13:05	Q6
Benzene	ND	20	ug/L	40.00	04/18/2005 13:05	
Toluene	ND	20	ug/L	40.00	04/18/2005 13:05	
Ethyl benzene	ND	20	ug/L	40.00	04/18/2005 13:05	
Xylene(s)	ND	20	ug/L	40.00	04/18/2005 13:05	
MTBE	2500	200	ug/L	40.00	04/18/2005 13:05	
<b>Surrogate(s)</b>						
Trifluorotoluene	97.2	58-124	%	40.00	04/18/2005 13:05	
4-Bromofluorobenzene-FID	80.0	50-150	%	40.00	04/18/2005 13:05	

**Gas/BTEX Compounds by 8015M/8021**

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Project: 41050001FA20

Conoco Phillips #1156

Received: 04/07/2005 17:15

Site: 4276 Mac Arthor Oakland

Prep(s):	5030 5030	Test(s):	8015M 8021B
Sample ID:	MW-3	Lab ID:	2005-04-0217 - 3
Sampled:	04/06/2005 09:36	Extracted:	4/18/2005 13:38
Matrix:	Water	QC Batch#:	2005/04/18-01.05
Analysis Flag: L2 ( See Legend and Note Section )			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	14000	2500	ug/L	50.00	04/18/2005 13:38	
Benzene	420	25	ug/L	50.00	04/18/2005 13:38	
Toluene	1300	25	ug/L	50.00	04/18/2005 13:38	
Ethyl benzene	1000	25	ug/L	50.00	04/18/2005 13:38	
Xylene(s)	3100	25	ug/L	50.00	04/18/2005 13:38	
MTBE	ND	250	ug/L	50.00	04/18/2005 13:38	
<b>Surrogate(s)</b>						
Trifluorotoluene	103.7	58-124	%	50.00	04/18/2005 13:38	
4-Bromofluorobenzene-FID	84.4	50-150	%	50.00	04/18/2005 13:38	

**Gas/BTEX Compounds by 8015M/8021**

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Conoco Phillips #1156

Received: 04/07/2005 17:15

Site: 4276 Mac Arthor Oakland

Prep(s): 5030	Test(s): 8015M
5030	8021B
Sample ID: MW-4	Lab ID: 2005-04-0217 - 4
Sampled: 04/06/2005 09:59	Extracted: 4/19/2005 02:02
Matrix: Water	QC Batch#: 2005/04/18-01.05
Analysis Flag: L2 ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	630	250	ug/L	5.00	04/19/2005 02:02	Q1
Benzene	81	2.5	ug/L	5.00	04/19/2005 02:02	
Toluene	9.6	2.5	ug/L	5.00	04/19/2005 02:02	
Ethyl benzene	16	2.5	ug/L	5.00	04/19/2005 02:02	
Xylene(s)	41	2.5	ug/L	5.00	04/19/2005 02:02	
MTBE	ND	25	ug/L	5.00	04/19/2005 02:02	
<b>Surrogate(s)</b>						
Trifluorotoluene	96.2	58-124	%	5.00	04/19/2005 02:02	
4-Bromofluorobenzene-FID	78.0	50-150	%	5.00	04/19/2005 02:02	

**Gas/BTEX Compounds by 8015M/8021**

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Conoco Phillips #1156

Received: 04/07/2005 17:15

Site: 4276 Mac Arthor Oakland

Prep(s): 5030	Test(s): 8015M
5030	8021B
Sample ID: MW-5	Lab ID: 2005-04-0217 - 5
Sampled: 04/06/2005 08:50	Extracted: 4/16/2005 23:23
Matrix: Water	QC Batch#: 2005/04/16-01.05
Analysis Flag: L2 ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	830	500	ug/L	10.00	04/16/2005 23:23	Q6
Benzene	ND	5.0	ug/L	10.00	04/16/2005 23:23	
Toluene	ND	5.0	ug/L	10.00	04/16/2005 23:23	
Ethyl benzene	ND	5.0	ug/L	10.00	04/16/2005 23:23	
Xylene(s)	ND	5.0	ug/L	10.00	04/16/2005 23:23	
MTBE	600	50	ug/L	10.00	04/16/2005 23:23	
<b>Surrogate(s)</b>						
Trifluorotoluene	98.1	58-124	%	10.00	04/16/2005 23:23	
4-Bromofluorobenzene-FID	89.4	50-150	%	10.00	04/16/2005 23:23	

Severn Trent Laboratories, Inc.

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Page 6 of 19

**Gas/BTEX Compounds by 8015M/8021**

TRC Alton Geoscience- Irvine

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21 Technology Drive  
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Project: 41050001FA20  
Conoco Phillips #1156

Received: 04/07/2005 17:15

Site: 4276 Mac Arthor Oakland

Prep(s): 5030	Test(s): 8015M
5030	8021B
Sample ID: MW-6	Lab ID: 2005-04-0217 - 6
Sampled: 04/06/2005 08:36	Extracted: 4/16/2005 23:57
Matrix: Water	QC Batch#: 2005/04/16-01.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	1.00	04/16/2005 23:57	
Benzene	ND	0.50	ug/L	1.00	04/16/2005 23:57	
Toluene	ND	0.50	ug/L	1.00	04/16/2005 23:57	
Ethyl benzene	ND	0.50	ug/L	1.00	04/16/2005 23:57	
Xylene(s)	ND	0.50	ug/L	1.00	04/16/2005 23:57	
MTBE	ND	5.0	ug/L	1.00	04/16/2005 23:57	
<b>Surrogate(s)</b>						
Trifluorotoluene	102.6	58-124	%	1.00	04/16/2005 23:57	
4-Bromofluorobenzene-FID	91.8	50-150	%	1.00	04/16/2005 23:57	

**Gas/BTEX Compounds by 8015M/8021**

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Project: 41050001FA20  
Conoco Phillips #1156

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Site: 4276 Mac Arthor Oakland

Prep(s):	5030	Test(s):	8015M
	5030		8021B
Sample ID:	MW-7	Lab ID:	2005-04-0217 - 7
Sampled:	04/06/2005 09:07	Extracted:	4/17/2005 00:30
Matrix:	Water	QC Batch#:	2005/04/16-01.05
Analysis Flag: L2 ( See Legend and Note Section )			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	13000	10000	ug/L	200.00	04/17/2005 00:30	Q6
Benzene	ND	100	ug/L	200.00	04/17/2005 00:30	
Toluene	ND	100	ug/L	200.00	04/17/2005 00:30	
Ethyl benzene	ND	100	ug/L	200.00	04/17/2005 00:30	
Xylene(s)	ND	100	ug/L	200.00	04/17/2005 00:30	
MTBE	14000	1000	ug/L	200.00	04/17/2005 00:30	
<b>Surrogate(s)</b>						
Trifluorotoluene	101.1	58-124	%	200.00	04/17/2005 00:30	
4-Bromofluorobenzene-FID	90.5	50-150	%	200.00	04/17/2005 00:30	



**Gas/BTEX Compounds by 8015M/8021**

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Project: 41050001FA20  
Conoco Phillips #1156

Received: 04/07/2005 17:15

Site: 4276 Mac Arthor Oakland

Batch QC Report					
Prep(s): 5030				Test(s): 8015M	
5030				8021B	
Method Blank		Water		QC Batch # 2005/04/16-01.05	
MB: 2005/04/16-01.05-002				Date Extracted: 04/16/2005 11:24	

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	04/16/2005 11:24	
Benzene	ND	0.5	ug/L	04/16/2005 11:24	
Toluene	ND	0.5	ug/L	04/16/2005 11:24	
Ethyl benzene	ND	0.5	ug/L	04/16/2005 11:24	
Xylene(s)	ND	0.5	ug/L	04/16/2005 11:24	
MTBE	ND	5.0	ug/L	04/16/2005 11:24	
<b>Surrogates(s)</b>					
Trifluorotoluene	113.4	58-124	%	04/16/2005 11:24	
4-Bromofluorobenzene-FID	93.6	50-150	%	04/16/2005 11:24	

**Gas/BTEX Compounds by 8015M/8021**

TRC Alton Geoscience- Irvine

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Irvine, CA 92718

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Project: 41050001FA20

Conoco Phillips #1156

Received: 04/07/2005 17:15

Site: 4276 Mac Arthor Oakland

**Batch QC Report**

Prep(s): 5030

5030

Method Blank

MB: 2005/04/18-01.05-003

Test(s): 8015M

8021B

Water

QC Batch # 2005/04/18-01.05

Date Extracted: 04/18/2005 08:42

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	04/18/2005 08:42	
Benzene	ND	0.5	ug/L	04/18/2005 08:42	
Toluene	ND	0.5	ug/L	04/18/2005 08:42	
Ethyl benzene	ND	0.5	ug/L	04/18/2005 08:42	
Xylene(s)	ND	0.5	ug/L	04/18/2005 08:42	
MTBE	ND	5.0	ug/L	04/18/2005 08:42	
<b>Surrogates(s)</b>					
Trifluorotoluene	106.0	58-124	%	04/18/2005 08:42	
4-Bromofluorobenzene-FID	95.1	50-150	%	04/18/2005 08:42	

**Gas/BTEX Compounds by 8015M/8021**

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21 Technology Drive  
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Phone: (949) 341-7440 Fax: (949) 753-0111  
Project: 41050001FA20  
Conoco Phillips #1156

Received: 04/07/2005 17:15

Site: 4276 Mac Arthor Oakland

Batch QC Report									
Prep(s): 5030					Test(s): 8021B				
Laboratory Control Spike			Water			QC Batch # 2005/04/16-01.05			
LCS		2005/04/16-01.05-003		Extracted: 04/16/2005		Analyzed: 04/16/2005 11:57			
LCSD									

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	49.6		50.0	99.2			77-123	20		
Toluene	51.8		50.0	103.6			78-122	20		
Ethyl benzene	53.1		50.0	106.2			70-130	20		
Xylene(s)	163		150	108.7			75-125	20		
<b>Surrogates(s)</b>										
Trifluorotoluene	569		500	113.8			58-124			

**Gas/BTEX Compounds by 8015M/8021**

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Project: 41050001FA20  
Conoco Phillips #1156

Received: 04/07/2005 17:15

Site: 4276 Mac Arthor Oakland

Batch QC Report									
Prep(s): 5030					Test(s): 8015M				
Laboratory Control Spike			Water			QC Batch # 2005/04/16-01.05			
LCS		2005/04/16-01.05-004		Extracted: 04/16/2005		Analyzed: 04/16/2005 12:31			
LCSD									

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
GRO (C6-C12)	228		250	91.2			75-125	20		
<i>Surrogates(s)</i>										
4-Bromofluorobenzene-FID	488		500	97.6			50-150			

**Gas/BTEX Compounds by 8015M/8021**

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Project: 41050001FA20

Conoco Phillips #1156

Received: 04/07/2005 17:15

Site: 4276 Mac Arthor Oakland

Batch QC Report									
Prep(s): 5030					Test(s): 8021B				
Laboratory Control Spike			Water			QC Batch # 2005/04/18-01.05			
LCS	2005/04/18-01.05-004		Extracted: 04/18/2005			Analyzed: 04/18/2005 09:16			
LCSD									

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	53.9		50.0	107.8			77-123	20		
Toluene	55.2		50.0	110.4			78-122	20		
Ethyl benzene	55.1		50.0	110.2			70-130	20		
Xylene(s)	167		150	111.3			75-125	20		
<b>Surrogates(s)</b>										
Trifluorotoluene	570		500	114.0			58-124			

Severn Trent Laboratories, Inc.

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

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

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**Gas/BTEX Compounds by 8015M/8021**

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Project: 41050001FA20

Conoco Phillips #1156

Received: 04/07/2005 17:15

Site: 4276 Mac Arthor Oakland

Batch QC Report									
Prep(s): 5030					Test(s): 8015M				
Laboratory Control Spike			Water			QC Batch # 2005/04/18-01.05			
LCS		2005/04/18-01.05-005		Extracted: 04/18/2005		Analyzed: 04/18/2005 09:49			
LCSD									

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
GRO (C6-C12)	243		250	97.2			75-125	20		
<i>Surrogates(s)</i>										
4-Bromofluorobenzene-FID	482		500	96.4			50-150			

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**Gas/BTEX Compounds by 8015M/8021**

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Project: 41050001FA20

Conoco Phillips #1156

Received: 04/07/2005 17:15

Site: 4276 Mac Arthor Oakland

**Batch QC Report**

Prep(s): 5030	Test(s): 8021B
<b>Matrix Spike ( MS / MSD )</b>	<b>Water</b>
<b>MS/MSD</b>	<b>QC Batch # 2005/04/16-01.05</b>
MS: 2005/04/16-01.05-029	Lab ID: 2005-04-0215 - 001
MSD: 2005/04/16-01.05-030	Extracted: 04/17/2005
	Analyzed: 04/17/2005 02:44
	Dilution: 1.00
	Analyzed: 04/17/2005 03:18
	Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	49.9	51.9	ND	50.0	99.8	103.8	3.9	65-135	20		
Toluene	50.7	52.8	ND	50.0	101.4	105.6	4.1	65-135	20		
Ethyl benzene	50.4	50.8	ND	50.0	100.8	101.6	0.8	65-135	20		
Xylene(s)	156	159	ND	150	104.0	106.0	1.9	65-135	20		
<b>Surrogate(s)</b>											
Trifluorotoluene	519	508		500	103.9	101.6		58-124			

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Page 15 of 19

**Gas/BTEX Compounds by 8015M/8021**

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

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Irvine, CA 92718

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Project: 41050001FA20

Conoco Phillips #1156

Received: 04/07/2005 17:15

Site: 4276 Mac Arthor Oakland

**Batch QC Report**

Prep(s): 5030

Test(s): 8015M

**Matrix Spike ( MS / MSD )**

**Water**

**QC Batch # 2005/04/16-01.05**

MS/MSD

Lab ID: 2005-04-0215 - 002

MS: 2005/04/16-01.05-031

Extracted: 04/17/2005

Analyzed: 04/17/2005 03:51

Dilution: 1.00

MSD: 2005/04/16-01.05-032

Extracted: 04/17/2005

Analyzed: 04/17/2005 04:25

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
GRO (C6-C12)	187	200	ND	250	74.8	80.0	6.7	65-135	20		
<i>Surrogate(s)</i>											
4-Bromofluorobenzene-FID	455			500	91.0			50-150			

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**Gas/BTEX Compounds by 8015M/8021**

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Project: 41050001FA20

Conoco Phillips #1156

Received: 04/07/2005 17:15

Site: 4276 Mac Arthor Oakland

**Batch QC Report**

Prep(s): 5030	Test(s): 8021B
<b>Matrix Spike ( MS / MSD )</b>	<b>Water</b>
<b>MS/MSD</b>	<b>QC Batch # 2005/04/18-01.05</b>
MS: 2005/04/18-01.05-018	Lab ID: 2005-04-0318 - 001
MSD: 2005/04/18-01.05-019	Extracted: 04/18/2005
	Analyzed: 04/18/2005 17:41
	Dilution: 1.00
	Analyzed: 04/18/2005 18:14
	Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample		ug/L	MS	MSD	RPD	Rec.	RPD	MS
Benzene	54.6	54.0	ND	50.0	109.2	108.0	1.1	65-135	20		
Toluene	55.0	55.5	ND	50.0	110.0	111.0	0.9	65-135	20		
Ethyl benzene	55.6	54.7	ND	50.0	111.2	109.4	1.6	65-135	20		
Xylene(s)	172	167	ND	150	114.7	111.3	3.0	65-135	20		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	561			500	112.2			50-150			

**Gas/BTEX Compounds by 8015M/8021**

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Conoco Phillips #1156

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Batch QC Report			
Prep(s):	5030		Test(s): 8015M
<b>Matrix Spike ( MS / MSD )</b>		<b>Water</b>	<b>QC Batch # 2005/04/18-01.05</b>
MS/MSD			Lab ID: 2005-04-0318 - 002
MS:	2005/04/18-01.05-020	Extracted: 04/18/2005	Analyzed: 04/18/2005 18:48
			Dilution: 1.00
MSD:	2005/04/18-01.05-021	Extracted: 04/18/2005	Analyzed: 04/18/2005 19:21
			Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
GRO (C6-C12)	219	231	ND	250	87.6	92.4	5.3	65-135	20		
<i>Surrogate(s)</i>											
4-Bromofluorobenzene-FID	448	459		500	89.6	91.8		50-150			

**Gas/BTEX Compounds by 8015M/8021**

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**Legend and Notes**

**Analysis Flag**

L2

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

**Result Flag**

Q1

Quantit. of unknown hydrocarbon(s) in sample based on gasoline.

Q6

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

**Gas/BTEX Fuel Oxygenates by 8260B**

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Conoco Phillips #1156

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**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
MW-1	04/06/2005 10:15	Water	1
MW-2	04/06/2005 09:48	Water	2
MW-3	04/06/2005 09:36	Water	3
MW-4	04/06/2005 09:59	Water	4
MW-5	04/06/2005 08:50	Water	5
MW-6	04/06/2005 08:36	Water	6
MW-7	04/06/2005 09:07	Water	7

**Gas/BTEX Fuel Oxygenates by 8260B**

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Conoco Phillips #1156

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Site: 4276 Mac Arthor Oakland

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-1	Lab ID: 2005-04-0217 - 1
Sampled: 04/06/2005 10:15	Extracted: 4/20/2005 19:13
Matrix: Water	QC Batch#: 2005/04/20-2A.64
Analysis Flag: L2 ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
tert-Butyl alcohol (TBA)	1500	1000	ug/L	200.00	04/20/2005 19:13	
Methyl tert-butyl ether (MTBE)	580	100	ug/L	200.00	04/20/2005 19:13	
Di-isopropyl Ether (DIPE)	ND	100	ug/L	200.00	04/20/2005 19:13	
Ethyl tert-butyl ether (ETBE)	ND	100	ug/L	200.00	04/20/2005 19:13	
tert-Amyl methyl ether (TAME)	ND	100	ug/L	200.00	04/20/2005 19:13	
1,2-DCA	ND	100	ug/L	200.00	04/20/2005 19:13	
EDB	ND	100	ug/L	200.00	04/20/2005 19:13	
Ethanol	ND	10000	ug/L	200.00	04/20/2005 19:13	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	106.8	73-130	%	200.00	04/20/2005 19:13	
Toluene-d8	100.7	81-114	%	200.00	04/20/2005 19:13	

**Gas/BTEX Fuel Oxygenates by 8260B**

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Project: 41050001FA20

Conoco Phillips #1156

Received: 04/07/2005 17:15

Site: 4276 Mac Arthor Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-2	Lab ID:	2005-04-0217 - 2
Sampled:	04/06/2005 09:48	Extracted:	4/20/2005 19:34
Matrix:	Water	QC Batch#:	2005/04/20-2A.64
Analysis Flag: L2 ( See Legend and Note Section )			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
tert-Butyl alcohol (TBA)	2800	250	ug/L	50.00	04/20/2005 19:34	
Methyl tert-butyl ether (MTBE)	3200	25	ug/L	50.00	04/20/2005 19:34	
Di-isopropyl Ether (DIPE)	ND	25	ug/L	50.00	04/20/2005 19:34	
Ethyl tert-butyl ether (ETBE)	ND	25	ug/L	50.00	04/20/2005 19:34	
tert-Amyl methyl ether (TAME)	ND	25	ug/L	50.00	04/20/2005 19:34	
1,2-DCA	ND	25	ug/L	50.00	04/20/2005 19:34	
EDB	ND	25	ug/L	50.00	04/20/2005 19:34	
Ethanol	ND	2500	ug/L	50.00	04/20/2005 19:34	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	108.4	73-130	%	50.00	04/20/2005 19:34	
Toluene-d8	107.0	81-114	%	50.00	04/20/2005 19:34	

**Gas/BTEX Fuel Oxygenates by 8260B**

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 Project: 41050001FA20  
 Conoco Phillips #1156

Received: 04/07/2005 17:15

Site: 4276 Mac Arthor Oakland

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-3	Lab ID: 2005-04-0217 - 3
Sampled: 04/06/2005 09:36	Extracted: 4/20/2005 19:56
Matrix: Water	QC Batch#: 2005/04/20-2A.64
Analysis Flag: L2 ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
tert-Butyl alcohol (TBA)	150	100	ug/L	20.00	04/20/2005 19:56	
Methyl tert-butyl ether (MTBE)	200	10	ug/L	20.00	04/20/2005 19:56	
Di-isopropyl Ether (DIPE)	ND	10	ug/L	20.00	04/20/2005 19:56	
Ethyl tert-butyl ether (ETBE)	ND	10	ug/L	20.00	04/20/2005 19:56	
tert-Amyl methyl ether (TAME)	ND	10	ug/L	20.00	04/20/2005 19:56	
1,2-DCA	ND	10	ug/L	20.00	04/20/2005 19:56	
EDB	ND	10	ug/L	20.00	04/20/2005 19:56	
Ethanol	ND	1000	ug/L	20.00	04/20/2005 19:56	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	107.6	73-130	%	20.00	04/20/2005 19:56	
Toluene-d8	101.8	81-114	%	20.00	04/20/2005 19:56	

**Gas/BTEX Fuel Oxygenates by 8260B**

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Project: 41050001FA20  
Conoco Phillips #1156

Received: 04/07/2005 17:15

Site: 4276 Mac Arthor Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-4	Lab ID:	2005-04-0217 - 4
Sampled:	04/06/2005 09:59	Extracted:	4/19/2005 14:50 4/20/2005 20:18
Matrix:	Water	QC Batch#:	2005/04/19-1D.64 2005/04/20-2A.64
Analysis Flag: L2 ( See Legend and Note Section )			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
tert-Butyl alcohol (TBA)	ND	25	ug/L	5.00	04/19/2005 14:50	
Methyl tert-butyl ether (MTBE)	26	2.5	ug/L	5.00	04/19/2005 14:50	
Di-isopropyl Ether (DIPE)	ND	2.5	ug/L	5.00	04/19/2005 14:50	
Ethyl tert-butyl ether (ETBE)	ND	2.5	ug/L	5.00	04/19/2005 14:50	
tert-Amyl methyl ether (TAME)	ND	2.5	ug/L	5.00	04/19/2005 14:50	
1,2-DCA	ND	2.5	ug/L	5.00	04/19/2005 14:50	
EDB	ND	2.5	ug/L	5.00	04/19/2005 14:50	
Ethanol	73000	5000	ug/L	100.00	04/20/2005 20:18	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	109.1	73-130	%	100.00	04/20/2005 20:18	
1,2-Dichloroethane-d4	109.2	73-130	%	5.00	04/19/2005 14:50	
Toluene-d8	103.8	81-114	%	100.00	04/20/2005 20:18	
Toluene-d8	104.1	81-114	%	5.00	04/19/2005 14:50	



**Gas/BTEX Fuel Oxygenates by 8260B**

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Conoco Phillips #1156

Received: 04/07/2005 17:15

Site: 4276 Mac Arthor Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-5	Lab ID:	2005-04-0217 - 5
Sampled:	04/06/2005 08:50	Extracted:	4/19/2005 15:12 4/20/2005 20:40
Matrix:	Water	QC Batch#:	2005/04/19-1D.64 2005/04/20-2A.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
tert-Butyl alcohol (TBA)	7.6	5.0	ug/L	1.00	04/19/2005 15:12	
Methyl tert-butyl ether (MTBE)	760	5.0	ug/L	10.00	04/20/2005 20:40	
Di-isopropyl Ether (DIPE)	ND	0.50	ug/L	1.00	04/19/2005 15:12	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	04/19/2005 15:12	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	04/19/2005 15:12	
1,2-DCA	1.4	0.50	ug/L	1.00	04/19/2005 15:12	
EDB	ND	0.50	ug/L	1.00	04/19/2005 15:12	
Ethanol	ND	50	ug/L	1.00	04/19/2005 15:12	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	107.9	73-130	%	10.00	04/20/2005 20:40	
1,2-Dichloroethane-d4	111.7	73-130	%	1.00	04/19/2005 15:12	
Toluene-d8	98.7	81-114	%	10.00	04/20/2005 20:40	
Toluene-d8	102.2	81-114	%	1.00	04/19/2005 15:12	

**Gas/BTEX Fuel Oxygenates by 8260B**

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Conoco Phillips #1156

Received: 04/07/2005 17:15

Site: 4276 Mac Arthor Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-6	Lab ID:	2005-04-0217 - 6
Sampled:	04/06/2005 08:36	Extracted:	4/19/2005 17:43
Matrix:	Water	QC Batch#:	2005/04/19-1D.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	04/19/2005 17:43	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	04/19/2005 17:43	
Di-isopropyl Ether (DIPE)	ND	0.50	ug/L	1.00	04/19/2005 17:43	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	04/19/2005 17:43	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	04/19/2005 17:43	
1,2-DCA	ND	0.50	ug/L	1.00	04/19/2005 17:43	
EDB	ND	0.50	ug/L	1.00	04/19/2005 17:43	
Ethanol	ND	50	ug/L	1.00	04/19/2005 17:43	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	109.1	73-130	%	1.00	04/19/2005 17:43	
Toluene-d8	98.2	81-114	%	1.00	04/19/2005 17:43	

**Gas/BTEX Fuel Oxygenates by 8260B**

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Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-7	Lab ID:	2005-04-0217 - 7
Sampled:	04/06/2005 09:07	Extracted:	4/19/2005 18:04 4/20/2005 21:01
Matrix:	Water	QC Batch#:	2005/04/19-1D.64 2005/04/20-2A.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
tert-Butyl alcohol (TBA)	4200	1000	ug/L	200.00	04/20/2005 21:01	
Methyl tert-butyl ether (MTBE)	17000	100	ug/L	200.00	04/20/2005 21:01	
Di-isopropyl Ether (DIPE)	ND	0.50	ug/L	1.00	04/19/2005 18:04	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	04/19/2005 18:04	
tert-Amyl methyl ether (TAME)	9.3	0.50	ug/L	1.00	04/19/2005 18:04	
1,2-DCA	6.4	0.50	ug/L	1.00	04/19/2005 18:04	
EDB	ND	0.50	ug/L	1.00	04/19/2005 18:04	
Ethanol	ND	10000	ug/L	200.00	04/20/2005 21:01	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	108.2	73-130	%	1.00	04/19/2005 18:04	
1,2-Dichloroethane-d4	112.2	73-130	%	200.00	04/20/2005 21:01	
Toluene-d8	99.6	81-114	%	1.00	04/19/2005 18:04	
Toluene-d8	101.5	81-114	%	200.00	04/20/2005 21:01	

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**Gas/BTEX Fuel Oxygenates by 8260B**

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Project: 41050001FA20

Conoco Phillips #1156

Received: 04/07/2005 17:15

Site: 4276 Mac Arthor Oakland

Batch QC Report		
Prep(s): 5030B		Test(s): 8260B
Method Blank	Water	QC Batch # 2005/04/19-1D.64
MB: 2005/04/19-1D.64-002		Date Extracted: 04/19/2005 10:17

Compound	Conc.	RL	Unit	Analyzed	Flag
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	04/19/2005 10:17	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	04/19/2005 10:17	
Di-isopropyl Ether (DIPE)	ND	0.5	ug/L	04/19/2005 10:17	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	04/19/2005 10:17	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	04/19/2005 10:17	
1,2-DCA	ND	0.5	ug/L	04/19/2005 10:17	
EDB	ND	0.5	ug/L	04/19/2005 10:17	
Ethanol	ND	50	ug/L	04/19/2005 10:17	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	97.8	73-130	%	04/19/2005 10:17	
Toluene-d8	98.4	81-114	%	04/19/2005 10:17	

**Gas/BTEX Fuel Oxygenates by 8260B**

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**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2005/04/20-2A.64-029

Water

Test(s): 8260B

QC Batch # 2005/04/20-2A.64

Date Extracted: 04/20/2005 18:29

Compound	Conc.	RL	Unit	Analyzed	Flag
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	04/20/2005 18:29	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	04/20/2005 18:29	
Di-isopropyl Ether (DIPE)	ND	0.5	ug/L	04/20/2005 18:29	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	04/20/2005 18:29	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	04/20/2005 18:29	
1,2-DCA	ND	0.5	ug/L	04/20/2005 18:29	
EDB	ND	0.5	ug/L	04/20/2005 18:29	
Ethanol	ND	50	ug/L	04/20/2005 18:29	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	105.3	73-130	%	04/20/2005 18:29	
Toluene-d8	102.1	81-114	%	04/20/2005 18:29	

**Gas/BTEX Fuel Oxygenates by 8260B**

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Batch QC Report									
Prep(s): 5030B						Test(s): 8260B			
Laboratory Control Spike			Water			QC Batch # 2005/04/19-1D.64			
LCS		2005/04/19-1D.64-001		Extracted: 04/19/2005		Analyzed: 04/19/2005 09:55			
LCSD									

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	25.1		25	100.4			65-165	20		
<i>Surrogates(s)</i>										
1,2-Dichloroethane-d4	483		500	96.6			73-130			
Toluene-d8	530		500	106.0			81-114			

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**Gas/BTEX Fuel Oxygenates by 8260B**

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Project: 41050001FA20

Conoco Phillips #1156

Received: 04/07/2005 17:15

Site: 4276 Mac Arthor Oakland

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2005/04/20-2A.64

LCS 2005/04/20-2A.64-051

Extracted: 04/20/2005

Analyzed: 04/20/2005 18:51

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	24.6		25	98.4			65-165	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	479		500	95.8			73-130			
Toluene-d8	509		500	101.8			81-114			

Severn Trent Laboratories, Inc.

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

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

04/21/2005 19:15

Page 12 of 15

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

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

Project: 41050001FA20

Conoco Phillips #1156

Received: 04/07/2005 17:15

Site: 4276 Mac Arthor Oakland

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Water**

**QC Batch # 2005/04/19-1D.64**

MS/MSD

Lab ID: 2005-04-0327 - 001

MS: 2005/04/19-1D.64-019

Extracted: 04/19/2005

Analyzed: 04/19/2005 12:19

Dilution: 1.00

MSD: 2005/04/19-1D.64-040

Extracted: 04/19/2005

Analyzed: 04/19/2005 12:40

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	18.2	24.0	ND	25	72.8	96.0	27.5	65-165	20		R4
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	480	476		500	96.1	95.2		73-130			
Toluene-d8	487	484		500	97.5	96.8		81-114			

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04/21/2005 19:15



**Gas/BTEX Fuel Oxygenates by 8260B**

TRC Alton Geoscience- Irvine  
Attn.: Anju Farfan

21 Technology Drive  
Irvine, CA 92718  
Phone: (949) 341-7440 Fax: (949) 753-0111  
Project: 41050001FA20  
Conoco Phillips #1156

Received: 04/07/2005 17:15

Site: 4276 Mac Arthor Oakland

Batch QC Report			
Prep(s):	5030B	Test(s):	8260B
<b>Matrix Spike ( MS / MSD )</b>		<b>Water</b>	<b>QC Batch # 2005/04/20-2A.64</b>
<b>MS/MSD</b>		Lab ID:	2005-04-0318 - 002
MS:	2005/04/20-2A.64-016	Extracted:	04/21/2005
		Analyzed:	04/21/2005 00:16
		Dilution:	1.00
MSD:	2005/04/20-2A.64-037	Extracted:	04/21/2005
		Analyzed:	04/21/2005 00:37
		Dilution:	1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	35.5	37.4	13.3	25	88.8	96.4	8.2	65-165	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	532	539		500	106.5	107.8		73-130			
Toluene-d8	518	509		500	103.6	101.8		81-114			

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**Gas/BTEX Fuel Oxygenates by 8260B**

TRC Alton Geoscience- Irvine

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Irvine, CA 92718

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Conoco Phillips #1156

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Site: 4276 Mac Arthor Oakland

**Legend and Notes**

**Analysis Flag**

L2

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

**Result Flag**

R4

RPD exceeded method control limit; % recoveries within limits.

**Diesel (C9-C24)**

TRC Alton Geoscience- Irvine

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21 Technology Drive

Irvine, CA 92718

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

Project: 41050001FA20

Conoco Phillips #1156

Received: 04/07/2005 17:15

Site: 4276 Mac Arthor Oakland

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
MW-1	04/06/2005 10:15	Water	1

**Diesel (C9-C24)**

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

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

Project: 41050001FA20

Conoco Phillips #1156

Received: 04/07/2005 17:15

Site: 4276 Mac Arthor Oakland

Prep(s): 3511	Test(s): 8015M
Sample ID: MW-1	Lab ID: 2005-04-0217 - 1
Sampled: 04/06/2005 10:15	Extracted: 4/18/2005 12:54
Matrix: Water	QC Batch#: 2005/04/18-04.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	2800	50	ug/L	1.00	04/20/2005 21:08	ndp
<b>Surrogate(s)</b>						
o-Terphenyl	121.6	64-127	%	1.00	04/20/2005 21:08	

Severn Trent Laboratories, Inc.

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

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

04/25/2005 16:32

**Diesel (C9-C24)**

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

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

Project: 41050001FA20

Conoco Phillips #1156

Received: 04/07/2005 17:15

Site: 4276 Mac Arthor Oakland

**Batch QC Report**

Prep(s): 3511

Method Blank

MB: 2005/04/18-04.10-001

Water

Test(s): 8015M

QC Batch # 2005/04/18-04.10

Date Extracted: 04/18/2005 12:54

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	04/19/2005 05:22	
<b>Surrogates(s)</b> o-Terphenyl	130.9	64-127	%	04/19/2005 05:22	S7

**Diesel (C9-C24)**

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive  
Irvine, CA 92718  
Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20  
Conoco Phillips #1156

Received: 04/07/2005 17:15

Site: 4276 Mac Arthor Oakland

Batch QC Report										
Prep(s): 3511						Test(s): 8015M				
<b>Laboratory Control Spike</b>				<b>Water</b>			<b>QC Batch # 2005/04/18-04:10</b>			
LCS	2005/04/18-04.10-002			Extracted: 04/18/2005			Analyzed: 04/19/2005 05:49			
LCSD	2005/04/18-04.10-003			Extracted: 04/18/2005			Analyzed: 04/19/2005 06:16			
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	690	723	680	101.5	106.3	4.6	60-150	25		
<b>Surrogates(s)</b> o-Terphenyl	1.36	1.51	1.25	108.7	120.5		64-127	0		

**Diesel (C9-C24)**

TRC Alton Geoscience- Irvine

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21 Technology Drive

Irvine, CA 92718

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

Project: 41050001FA20

Conoco Phillips #1156

Received: 04/07/2005 17:15

Site: 4276 Mac Arthor Oakland

**Legend and Notes**

**Result Flag**

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

S7

Surrogate recoveries higher than acceptance limits.

Severn Trent Laboratories, Inc.

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04/25/2005 16:32

6TL San Francisco

1320 Gushy Lane

Pleasanton, CA 94566

(925) 484-1910 (925) 484-1090 fax

# 2005-04-0217 ConocoPhillips Chain of Custody Record

113945

ConocoPhillips Site Manager:		ConocoPhillips Work Order Number																	
INVOICE REMITTANCE ADDRESS:		112TR001																	
CONOCOPHILLIPS Attn: Don Hutchinson 3811 South Harbor, Suite 200 Santa Ana, CA 92794		ConocoPhillips Cost Object																	
DATE 040605		PAGE 1 of 1																	
GLOBAL ID NO. 70600/02279		CONOCOPHILLIPS SITE ADDRESS																	
1150		4276 MAC ARTHUR, OAKLAND THOMAS ROEL																	
TNC		FOR RELIABILITY TO BP-CO Employees																	
21 Technology Drive, Irvine CA 92618		Date: Thomas, TNC																	
PROJECT CONTACT (Name) - POC (Phone No.)		925-341-7000																	
Anis Farfan		LAP USE ONLY																	
TELEPHONE: 925-341-7410		FAX: 925-341-2111																	
EMAIL: afarfan@tncsolutions.com		PROJECT NUMBER: 41050301FA23																	
LABORATORY WORKSHEET		REQUESTED ANALYSES																	
<input type="checkbox"/> 10/24/05 <input type="checkbox"/> 7/24/05 <input type="checkbox"/> 2/24/05 <input type="checkbox"/> 4/24/05 <input type="checkbox"/> 6/24/05 <input type="checkbox"/> 8/24/05 <input type="checkbox"/> 10/24/05		3015A - TPH&S Extractable 3250B - TPH&S (BTEX) 3260B - TPH&S (BTEX) + n-Paraffins 3280B - TPH&S (BTEX) + n-Paraffins + n-Paraffins (80-100) 3290B - Fuel 5.00% Vol. Co. (BTEX) + n-Paraffins 3270C - Semp-Volatiles 3015B - TPH&S (BTEX) Lead Total (STL) (STL)																	
SPECIAL RESTRICTIONS OR NOTES:		FIELD NOTES:																	
		Contains/Preservation or PID Readings or Laboratory Notes 4°C TEMPERATURE ON RECORD: 90.0 AS of 100, 3000 Sample																	
* Field Point name only required if different from Sample ID																			
LAB USE ONLY	Sample Identification/Field Point Name	SAMPLED		DATE	TIME	NO. OF CONT.	3015A - TPH&S Extractable	3250B - TPH&S (BTEX)	3260B - TPH&S (BTEX) + n-Paraffins	3280B - TPH&S (BTEX) + n-Paraffins + n-Paraffins (80-100)	3290B - Fuel 5.00% Vol. Co. (BTEX) + n-Paraffins	3270C - Semp-Volatiles	3015B - TPH&S (BTEX)	Lead Total (STL) (STL)	TNC	TNC	TNC	TNC	
		DATE	TIME																
	AW-1	04/06/05	10:10	Gr 10	12										X				
	AW-2		0948		9														
	AW-3		0930		1														
	AW-4		0959																
	AW-5		0859																
	AW-6		0830																
	AW-7		0907																
Authorized Signature		Authorized Signature		DATE		TIME		DATE		TIME		DATE		TIME		DATE		TIME	
[Signature]		[Signature]		04/06/05		11:00		04/06/05		11:00		04/06/05		11:00		04/06/05		11:00	
[Signature]		[Signature]		4/7/05		11:00		4/7/05		11:00		4/7/05		11:00		4/7/05		11:00	
[Signature]		[Signature]		4/7/05		1715		4/7/05		1715		4/7/05		1715		4/7/05		1715	



## **STATEMENTS**

### **Purge Water Disposal**

Non-hazardous groundwater produced during purging and sampling of monitoring was accumulated at TRC's groundwater monitoring facility at Concord, California, for transportation by Onyx Transportation, Inc., to the 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 Filter Recycling, Inc.

### **Limitations**

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