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Alameda County
Environmental Health

ConocoPhillips
76 Broadway
Sacramento, California 95818

July 28, 2006

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

Re: **Report Transmittal**
Quarterly Report
Second Quarter – 2006
76 Service Station #1871
96 MacArthur Boulevard
Oakland, CA

Dear Mr. Hwang:

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

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

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

Sincerely,

Thomas Kosel
Risk Management & Remediation

Attachment

TRC

Customer-Focused Solutions

July 28, 2006 TRC Project No. 42016105

Mr. Don Hwang
Hazardous Materials Specialist
Alameda County Health Services
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

RE: Quarterly Status Report - Second Quarter 2006
76 Service Station #1871,
96 MacArthur Boulevard, Oakland, California, Alameda County

Dear Mr. Hwang:

On behalf of ConocoPhillips Company (ConocoPhillips), TRC is submitting the Second Quarter 2006 Status Report for the subject site. The site is an operating service station located on the north corner of the intersection of MacArthur Boulevard and Harrison Street in Oakland, California.

PREVIOUS ASSESSMENTS

May 1992: Roux Associates (Roux) performed a dispenser and product piping modification project.

October 1992: Roux installed three 4-inch diameter groundwater monitoring wells onsite.

January 1993: Quarterly groundwater sampling and monitoring began.

August 1994: A 280-gallon single-wall steel waste oil underground storage tank (UST) was replaced with a 550-gallon double-wall fiberglass UST. Conformation sampling was performed.

February 1996: The Alameda County Health Care Service Agency (ACHCSA) approved Unocal's request to reduce the groundwater monitoring and sampling frequency from quarterly to semiannually (KEI, 1996).

March 1996: Two monitoring wells were installed at the site.

May 1998: John's Excavating of Santa Rosa, California removed all underground and aboveground equipment and facilities. Facilities included two 12,000-gallon double-wall steel gasoline USTs, one 550-gallon double-wall steel waste oil UST, two hydraulic lifts, two dispenser islands and related single-wall product piping, and one service station building.

Gettler-Ryan Inc. (GR) personnel performed soil and groundwater sampling activities in conjunction with the station demolition. A total of 1,252.78 tons of soil were removed from the site during demolition activities and transported to Forward Landfill for disposal.

September 1998: Two wells that were damaged during site demolition activities were drilled out and the boreholes backfilled with neat cement to grade. In addition, one soil boring was advanced onsite to a total depth of 16.5 feet below ground surface (bgs). Groundwater was encountered at approximately 10.5 feet bgs. Soil and groundwater samples were collected for development of a Risk Based Corrective Action (RBCA) evaluation for the site.

February 1999: GR performed a RBCA evaluation. The RBCA evaluation concluded that, since the site was scheduled for construction of a fuel dispensing facility covered with concrete and asphalt and no groundwater receptors were located within a 1/4 mile radius of the site, the potential threat to public health and environment was not of significant concern.

June 1999: GR installed three offsite monitoring wells, and advanced nine soil borings on and near the site. Depth-discrete soil and groundwater samples were collected.

April 2002: An ozone injection system was installed and activated at the site.

September 2003: Operations and maintenance responsibilities for the remediation system were transferred to SECOR International Inc. (SECOR).

October 2003: Site environmental consulting responsibilities were transferred to TRC.

January 2006: Operations and maintenance responsibilities for the remediation system were transferred to Environ Strategy Consultants, Inc. International Inc. (Environ Strategy).

SENSITIVE RECEPTORS

No potential receptors for impacted groundwater were identified within a ¼ mile radius of the site during the RBCA evaluation. No other sensitive receptor surveys have been conducted for the site.

MONITORING AND SAMPLING

One onsite and six offsite wells are currently monitored quarterly. All seven wells were sampled this quarter. The groundwater flow this quarter is towards the southwest at a calculated hydraulic gradient of 0.04 feet per foot. The groundwater flow direction this quarter is consistent with historical trends as shown in the attached rose diagram of historical groundwater flow directions.

CHARACTERIZATION STATUS

Total petroleum hydrocarbons as gasoline (TPH-g) were detected in five of the seven wells sampled at a maximum concentration of 11,000 micrograms per liter (µg/l) in onsite well MW-1.

Benzene was detected in two of seven wells sampled at a maximum concentration of 110 µg/l in onsite well MW-1.

Methyl tertiary butyl ether (MTBE) was detected in five of seven wells sampled at a maximum concentration of 1,700 µg/l in offsite well MW-9.

Hydrocarbon impacts are not fully delineated offsite. Perimeter downgradient monitoring well MW-10 contained 10 µg/l MTBE. Perimeter crossgradient monitoring well MW-8 contained 3,800 µg/l TPH-g. Perimeter downgradient monitoring well MW-9 contained 1,700 µg/l MTBE. Perimeter downgradient monitoring well MW-11 was non-detect for TPH-g, benzene, and MTBE.

REMEDIATION STATUS

April 2002: GR installed an ozone sparging system utilizing 10 ozone sparge wells completed to maximum depths of 25 to 30 feet bgs. The system was activated on April 8, 2002. Since then approximately 84 pounds of ozone have been injected.

RECENT CORRESPONDENCE

No correspondence this quarter.

CURRENT QUARTER ACTIVITIES

June 23, 2006: TRC performed groundwater monitoring and sampling. Wastewater generated from well purging and equipment cleaning was stored at TRC's groundwater monitoring facility in Concord, California, and transported by Onyx to the ConocoPhillips Refinery in Rodeo, California, for treatment and disposal.

April through June 2006: Environ Strategy Consultants Inc. (ESCI) performed operations and maintenance activities on the ozone sparging system throughout the quarter. During the second quarter the system operated for a total of 646 hours (32% runtime) and approximately 5.81 pounds of ozone were injected. System down-time occurred throughout this quarter due to a tripped ozone sensor and GFI.

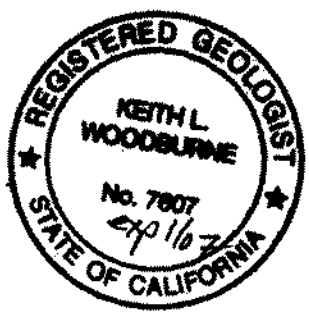
CONCLUSIONS AND RECOMMENDATIONS

TRC recommends continuing quarterly monitoring and sampling to assess plume stability and concentration trends and continuing operation of the ozone sparging system to reduce hydrocarbon mass in the subsurface. TRC will work with the ozone system operations and maintenance contractor to improve overall system performance.

TRC will prepare a Site Conceptual Model, per Alameda County Health Care Services (ACHCS) guidelines, to summarize site conditions and to determine if data gaps exist.

If you have any questions regarding this report, please call me at (925) 688-2488.

Sincerely,
TRC

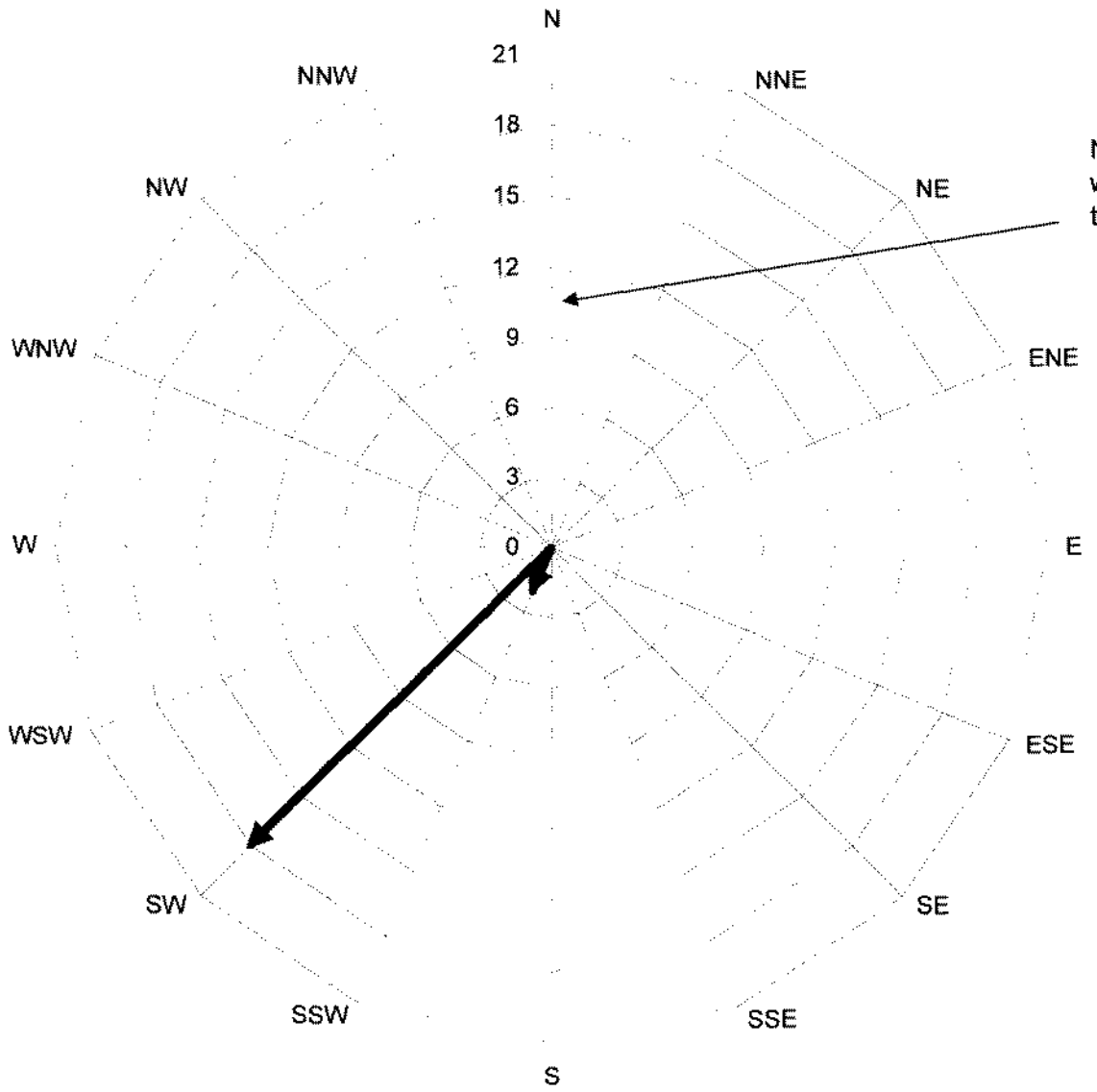


Keith Woodburne, P.G.
Senior Project Geologist

Attachments:
Quarterly Monitoring Report, April through June 2006 (TRC, July 24, 2006)
Ozone Injection System O&M Report – Second Quarter 2006 (ESCI, July 15, 2006)
Historical Groundwater Flow Directions – January 2001 through June 2006

cc: Shelby Lathrop, ConocoPhillips (via electronic upload, without attachments)

Historical Groundwater Flow Directions
for Tosco (76) Service Station No. 1871
January 2001 through June 2006



Number of monitoring events in which groundwater was reported to flow in a particular direction.

TRC

TRC

July 24, 2006

ConocoPhillips Company
76 Broadway
Sacramento, California 95818

ATTN: MS. SHELBY LATHROP

SITE: 76 STATION 1871
96 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

RE: QUARTERLY MONITORING REPORT
APRIL THROUGH JUNE 2006

Dear Ms. Lathrop:

Please find enclosed our Quarterly Monitoring Report for 76 Station, located at 96 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. Keith Woodburne, TRC (3 copies)

Enclosures
20-0400/1871R11.QMS

21 Technology Drive • Irvine, California 92618
Main: 949-727-9336 • Fax: 949-727-7399
www.trcsolutions.com

TRC

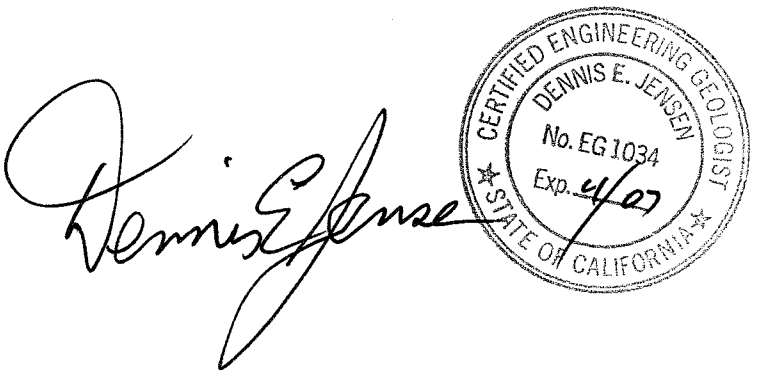
QUARTERLY MONITORING REPORT
APRIL THROUGH JUNE 2006

76 STATION 1871
96 MacArthur Boulevard
Oakland, California

Prepared For:

Ms. Shelby Lathrop
CONOCOPHILLIPS COMPANY
76 Broadway
Sacramento, California 95818

By:



Senior Project Geologist, Irvine Operations
July 21, 2006

21 Technology Drive • Irvine, California 92618
Main: 949-727-9336 • Fax: 949-727-7399
www.trcsolutions.com

LIST OF ATTACHMENTS	
Summary Sheet	Summary of Gauging and Sampling Activities
Tables	Table Key Contents of Tables Table 1: Current Fluid Levels and Selected Analytical Results Table 1a: Additional Current Analytical Results Table 2: Historic Fluid Levels and Selected Analytical Results Table 2a: Additional Historic Analytical Results
Figures	Figure 1: Vicinity Map Figure 2: Groundwater Elevation Contour Map Figure 3: Dissolved-Phase TPH-G (GC/MS) Concentration Map Figure 4: Dissolved-Phase Benzene Concentration Map Figure 5: Dissolved-Phase MTBE Concentration Map
Graphs	Groundwater Elevations vs. Time Benzene Concentrations vs. Time
Field Activities	General Field Procedures Field Monitoring Data Sheet – 06/23/06 Groundwater Sampling Field Notes – 06/23/06
Laboratory Reports	Official Laboratory Reports Quality Control Reports Chain of Custody Records
Statements	Purge Water Disposal Limitations

Summary of Gauging and Sampling Activities
April 2006 through June 2006
76 Station 1871
96 MacArthur
Oakland, CA

Project Coordinator: **Shelby Lathrop**
Telephone: **916-558-7609**
Water Sampling Contractor: ***TRC***
Compiled by: **Christina Carrillo**
Date(s) of Gauging/Sampling Event: **06/23/06**

Sample Points

Groundwater wells: **1** onsite, **6** 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: **6.42 feet** Maximum: **13.68 feet**
Average groundwater elevation (relative to available local datum): **71.04 feet**
Average change in groundwater elevation since previous event: **-0.06 feet**
Interpreted groundwater gradient and flow direction:
Current event: **0.04 ft/ft, southwest**
Previous event: **0.04 ft/ft, southwest (03/10/06)**

Selected Laboratory Results

Wells with detected **Benzene:** **2** Wells above MCL (1.0 µg/l): **2**
Maximum reported benzene concentration: **110 µg/l (MW-1)**

Wells with **TPH-G by GC/MS** **5** Maximum: **11,000 µg/l (MW-1)**
Wells with **MTBE** **5** Maximum: **1,700 µg/l (MW-9)**

Notes:

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

TABLES

TABLE KEY

STANDARD ABBREVIATIONS

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

ANALYTES

BTEX	=	benzene, toluene, ethylbenzene, and (total) xylenes
DIPE	=	di-isopropyl ether
ETBE	=	ethyl tertiary butyl ether
MTBE	=	methyl tertiary butyl ether
PCB	=	polychlorinated biphenyls
PCE	=	tetrachloroethene
TBA	=	tertiary butyl alcohol
TCA	=	trichloroethane
TCE	=	trichloroethene
TPH-G	=	total petroleum hydrocarbons with gasoline distinction
TPH-G (GC/MS)	=	total petroleum hydrocarbons with gasoline distinction utilizing EPA Method 8260B
TPH-D	=	total petroleum hydrocarbons with diesel distinction
TRPH	=	total recoverable petroleum hydrocarbons
TAME	=	tertiary amyl methyl ether
1,1-DCA	=	1,1-dichloroethane
1,2-DCA	=	1,2-dichloroethane (same as EDC, ethylene dichloride)
1,1-DCE	=	1,1-dichloroethene
1,2-DCE	=	1,2-dichloroethene (cis- and trans-)

NOTES

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

REFERENCE

TRC began groundwater monitoring and sampling for 76 Station 1871 in October 2003. Historical data compiled prior to that time were provided by Gettler-Ryan Inc.

Contents of Tables
Site: 76 Station 1871

Current Event

Historic Data

Table 1

CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

June 23, 2006

76 Station 1871

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPH-G (8015M)	TPH-G (GC/MS)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
	(feet)	(feet)	(feet)	(feet)	(feet)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
MW-1		**(Screen Interval in feet: 9.5-24.5)**												
06/23/06	86.99	11.85	0.00	75.14	-0.87	--	11000	110	ND<5.0	610	1600	--	780	
MW-6		**(Screen Interval in feet: 5.0-25.0)**												
06/23/06	79.67	8.13	0.00	71.54	-1.30	--	1700	ND<12	ND<12	ND<12	ND<25	--	1100	
MW-7		**(Screen Interval in feet: 5.0-25.0)**												
06/23/06	80.67	6.83	0.00	73.84	-0.99	--	1800	21	ND<12	ND<12	ND<25	--	1500	
MW-8		**(Screen Interval in feet: 5.0-25.0)**												
06/23/06	81.71	6.56	0.00	75.15	0.07	--	3600	ND<0.50	ND<0.50	100	57	--	ND<0.50	
MW-9		**(Screen Interval in feet: DNA)**												
06/23/06	82.07	13.68	0.00	68.39	-0.29	--	1700	ND<12	ND<12	ND<12	ND<25	--	1700	
MW-10		**(Screen Interval in feet: DNA)**												
06/23/06	74.98	6.42	0.00	68.56	-0.56	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.50	
MW-11		**(Screen Interval in feet: DNA)**												
06/23/06	77.31	12.65	0.00	64.66	3.55	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	

Table 1 a
ADDITIONAL CURRENT ANALYTICAL RESULTS
76 Station 1871

Date Sampled	Ethanol (8260B) (µg/l)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)
MW-1			
06/23/06	ND<2500	4.31	-030
MW-6			
06/23/06	ND<6200	3.39	-105
MW-7			
06/23/06	ND<6200	3.95	-119
MW-8			
06/23/06	ND<250	2.81	-135
MW-9			
06/23/06	ND<6200	0.84	-65
MW-10			
06/23/06	ND<250	1.49	-68
MW-11			
06/23/06	ND<250	7.74	-26

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1992 Through June 2006

76 Station 1871

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPH-G (8015M)	TPH-G (GC/MS)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
	(feet)	(feet)	(feet)	(feet)	(feet)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
MW-1	**(Screen Interval in feet: 9.5-24.5)**													
11/03/92	--	--	--	--	--	260000	--	2300	4600	3700	17000	--	--	
01/25/93	81.18	--	0.00	--	--	120000	--	2100	4600	4900	22000	--	--	
04/29/93	81.18	13.71	0.00	67.47	--	100000	--	850	2000	4300	19000	--	--	
07/16/93	81.18	14.51	0.00	66.67	-0.80	29000	--	590	560	980	4200	--	--	
10/19/93	81.18	15.20	0.00	65.98	-0.69	67000	--	1400	2600	2900	5000	--	--	
01/20/94	81.18	15.17	0.00	66.01	0.03	92000	--	1200	3000	3400	17000	--	--	
04/13/94	81.18	14.44	0.00	66.74	0.73	51000	--	1000	2600	3200	15000	--	--	
07/13/94	81.18	14.88	0.00	66.30	-0.44	35000	--	550	150	1400	5700	--	--	
10/10/94	81.18	15.55	0.00	65.63	-0.67	52000	--	1000	810	3300	12000	--	--	
01/10/95	81.18	12.44	0.00	68.74	3.11	810	--	16	18	59	250	--	--	
04/17/95	81.18	12.68	0.00	68.50	-0.24	48000	--	880	530	2500	11000	--	--	
07/24/95	81.18	13.97	0.00	67.21	-1.29	48000	--	1500	420	2700	9700	--	--	
10/23/95	81.18	14.85	0.00	66.33	-0.88	47000	--	780	210	2100	11000	270	--	
01/18/96	81.18	14.21	0.00	66.97	0.64	30000	--	1500	500	3500	13000	2400	--	
04/18/96	86.24	13.40	0.00	72.84	5.87	66000	--	2700	2200	3100	13000	57000	--	
07/24/96	86.24	14.15	0.00	72.09	-0.75	5600	--	2100	ND	160	160	24000	--	
10/24/96	86.24	14.85	0.00	71.39	-0.70	110000	--	7500	8000	3300	14000	58000	--	
01/28/97	86.24	11.25	0.00	74.99	3.60	94000	--	7700	19000	3100	15000	120000	--	
07/29/97	86.24	14.67	0.00	71.57	-3.42	ND	--	ND	ND	ND	ND	70000	--	
01/14/98	86.24	12.27	0.00	73.97	2.40	85000	--	6100	10000	3000	17000	110000	--	
07/01/98	86.24	14.32	0.00	71.92	-2.05	110000	--	8700	12000	2700	15000	110000	--	
06/18/99	86.24	13.93	0.00	72.31	0.39	49000	--	6900	6500	380	12000	72000	47000	
01/21/00	86.24	15.05	0.00	71.19	-1.12	63700	--	5520	2000	2640	13100	57100	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1992 Through June 2006

76 Station 1871

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-1 continued														
07/10/00	86.24	13.97	0.00	72.27	1.08	67800	--	9910	4120	3330	16100	67400	54000	
01/04/01	86.24	14.92	0.00	71.32	-0.95	63900	--	6270	784	2670	12900	--	38100	
07/16/01	86.24	14.32	0.00	71.92	0.60	66000	--	7100	330	2300	9800	36000	41000	
01/31/02	86.99	13.54	0.00	73.45	1.53	42000	--	5800	1800	2000	8200	26000	26000	
04/11/02	86.99	13.64	0.00	73.35	-0.10	58000	--	2900	1200	1800	10000	19000	--	
07/11/02	86.99	13.96	0.00	73.03	-0.32	--	5900	330	ND<10	230	600	--	3400	
10/15/02	86.99	14.71	0.00	72.28	-0.75	--	470	16	ND<2.5	14	16	--	390	
01/14/03	86.99	12.77	0.00	74.22	1.94	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	49	
04/16/03	86.99	13.18	0.00	73.81	-0.41	--	510	57	0.62	29	61	--	160	
07/16/03	86.99	14.26	0.00	72.73	-1.08	--	27000	260	23	730	3200	--	1200	
10/02/03	86.99	14.95	0.00	72.04	-0.69	--	45000	1400	32	2900	7600	--	3200	
01/07/04	86.99	12.30	0.00	74.69	2.65	--	34000	690	41	1600	5200	--	2600	
04/02/04	86.99	13.18	0.00	73.81	-0.88	--	350	1.8	ND<0.50	6.2	30	--	19	
07/29/04	86.99	14.61	0.00	72.38	-1.43	--	41000	550	ND<20	2000	6100	--	1200	
11/24/04	86.99	14.98	0.00	72.01	-0.37	--	55000	910	28	3100	11000	--	1600	
01/24/05	86.99	12.98	0.00	74.01	2.00	--	24000	240	ND<20	1100	3600	--	1800	
06/23/05	86.99	13.39	0.00	73.60	-0.41	--	24000	140	ND<25	1100	2900	--	600	
09/28/05	86.99	14.63	0.00	72.36	-1.24	--	8200	22	0.97	290	660	--	320	
12/20/05	86.99	11.42	0.00	75.57	3.21	--	10000	17	29	180	840	--	2400	
03/10/06	86.99	10.98	0.00	76.01	0.44	--	10000	35	ND<5.0	470	1300	--	960	
06/23/06	86.99	11.85	0.00	75.14	-0.87	--	11000	110	ND<5.0	610	1600	--	780	
MW-2	**(Screen Interval in feet: DNA)**													
11/03/92	76.61	--	--	--	--	140	--	2.2	ND	ND	2.0	--	--	
01/25/93	76.61	--	--	--	--	2100	--	56	1.1	90	140	--	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1992 Through June 2006

76 Station 1871

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-2 continued														
04/29/93	76.61	9.73	0.00	66.88	--	1500	--	290	ND	33	11	--	--	
07/16/93	76.61	10.17	0.00	66.44	-0.44	510	--	17	0.60	3.2	2.5	--	--	
10/19/93	76.61	11.18	0.00	65.43	-1.01	670	--	24	1.1	7.7	23	--	--	
01/20/94	76.61	11.12	0.00	65.49	0.06	820	--	97	ND	12	ND	--	--	
04/13/94	76.61	10.12	0.00	66.49	1.00	550	--	71	ND	5.1	1.3	--	--	
07/13/94	76.61	10.86	0.00	65.75	-0.74	2000	--	490	ND	17	13	--	--	
10/10/94	76.61	11.48	0.00	65.13	-0.62	2300	--	340	ND	25	ND	--	--	
01/10/95	76.61	8.71	0.00	67.90	2.77	850	--	3.8	ND	8.5	1.3	--	--	
04/17/95	76.61	8.90	0.00	67.71	-0.19	1300	--	4.7	ND	8.3	1.2	--	--	
07/24/95	76.61	9.94	0.00	66.67	-1.04	960	--	20	ND	4.2	6.2	--	--	
10/23/95	76.61	10.70	0.00	65.91	-0.76	ND	--	ND	ND	ND	ND	19	--	
01/18/96	76.61	10.11	0.00	66.50	0.59	900	--	300	86	7.6	18	4300	--	
04/18/96	81.66	9.27	0.00	72.39	5.89	18000	--	3600	680	890	4100	19000	--	
07/24/96	81.66	10.02	0.00	71.64	-0.75	100000	--	13000	21000	2700	16000	120000	--	
10/24/96	81.66	10.78	0.00	70.88	-0.76	800	--	110	17	11	20	20000	--	
01/28/97	81.66	7.70	0.00	73.96	3.08	45000	--	2400	2900	2000	7600	29000	--	
07/29/97	81.66	10.28	0.00	71.38	-2.58	ND	--	1.2	0.72	0.63	0.62	17000	--	
01/14/98	81.66	8.63	0.00	73.03	1.65	14000	--	1000	150	790	3300	23000	--	
07/01/98	81.66	9.53	0.00	72.13	-0.90	2700	--	100	ND	180	78	7100	--	
06/18/99	--	--	--	--	--	--	--	--	--	--	--	--	--	Well was destroyed
MW-3	**(Screen Interval in feet: DNA)**													
11/03/92	77.48	--	--	--	--	2100	--	120	15	38	200	--	--	
01/25/93	77.48	--	--	--	--	2300	--	80	1	55	52	--	--	
04/29/93	77.48	11.37	0.00	66.11	--	4500	--	1700	ND	200	140	--	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1992 Through June 2006

76 Station 1871

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-3 continued														
07/16/93	77.48	12.09	0.00	65.39	-0.72	4000	--	1100	28	52	70	--	--	
10/19/93	77.48	12.69	0.00	64.79	-0.60	3800	--	42	ND	50	56	--	--	
01/20/94	77.48	12.65	0.00	64.83	0.04	4200	--	11	ND	21	15	--	--	
04/13/94	77.48	12.02	0.00	65.46	0.63	4200	--	210	ND	36	53	--	--	
07/13/94	77.48	12.46	0.00	65.02	-0.44	1800	--	16	16	ND	21	--	--	
10/10/94	77.48	12.98	0.00	64.50	-0.52	4300	--	11	ND	12	ND	--	--	
01/10/95	77.48	10.42	0.00	67.06	2.56	310	--	4.6	ND	3.5	2.1	--	--	
04/17/95	77.48	10.42	0.00	67.06	0.00	7800	--	ND	4.6	300	450	--	--	
07/24/95	77.48	11.76	0.00	65.72	-1.34	3200	--	170	ND	22	16	--	--	
10/23/95	77.48	12.50	0.00	64.98	-0.74	3900	--	55	ND	19	11	4500	--	
01/18/96	77.48	11.79	0.00	65.69	0.71	2200	--	270	33	26	18	5500	--	
04/18/96	82.55	11.30	0.00	71.25	5.56	6000	--	1800	ND	100	230	48000	--	
07/24/96	82.55	12.17	0.00	70.38	-0.87	ND	--	2500	ND	ND	ND	71000	--	
10/24/96	82.55	12.65	0.00	69.90	-0.48	3800	--	660	ND	15	ND	65000	--	
01/28/97	82.55	9.50	0.00	73.05	3.15	4400	--	250	13	87	47	54000	--	
07/29/97	82.55	11.99	0.00	70.56	-2.49	ND	--	3500	ND	220	ND	75000	--	
01/14/98	82.55	10.30	0.00	72.25	1.69	ND	--	430	ND	100	380	37000	--	
07/01/98	82.55	11.70	0.00	70.85	-1.40	ND	--	430	ND	ND	ND	45000	--	
06/18/99	--	--	--	--	--	--	--	--	--	--	--	--	--	Well was destroyed
MW-4	**(Screen Interval in feet: DNA)**													
04/18/96	82.04	9.83	0.00	72.21	--	ND	--	630	ND	ND	ND	18000	--	
07/24/96	82.04	10.47	0.00	71.57	-0.64	ND	--	ND	ND	ND	5.2	3900	--	
10/24/96	82.04	11.14	0.00	70.90	-0.67	ND	--	ND	ND	ND	ND	6300	--	
01/28/97	82.04	7.94	0.00	74.10	3.20	1200	--	490	ND	17	6.8	16000	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1992 Through June 2006

76 Station 1871

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-4 continued														
07/29/97	82.04	10.86	0.00	71.18	-2.92	50	--	1.5	0.61	0.73	0.78	15000	--	
01/14/98	82.04	8.73	0.00	73.31	2.13	ND	--	ND	ND	ND	ND	5200	--	
07/01/98	82.04	10.51	0.00	71.53	-1.78	ND	--	ND	ND	ND	ND	640	--	
06/18/99	82.04	--	--	--	--	--	--	--	--	--	--	--	--	Well was destroyed
MW-5	**(Screen Interval in feet: DNA)**													
04/18/96	81.80	9.65	0.00	72.15	--	31000	--	5500	1400	1700	8100	66000	--	
07/24/96	81.80	10.80	0.00	71.00	-1.15	32000	--	6400	ND	1600	6100	120000	--	
10/24/96	81.80	11.40	0.00	70.40	-0.60	17000	--	6900	ND	970	130	84000	--	
01/28/97	81.80	7.76	0.00	74.04	3.64	19000	--	6100	62	82	310	160000	--	
07/29/97	81.80	11.58	0.00	70.22	-3.82	ND	--	ND	ND	ND	ND	71000	--	
01/14/98	81.80	9.08	0.00	72.72	2.50	ND	--	3600	ND	ND	ND	80000	--	
07/01/98	81.80	11.25	0.00	70.55	-2.17	6400	--	2100	21	120	330	61000	--	
06/18/99	81.80	--	--	--	--	--	--	--	--	--	--	--	--	Well was destroyed
MW-6	**(Screen Interval in feet: 5.0-25.0)**													
06/18/99	78.91	9.30	0.00	69.61	--	2100	--	21	29	ND	47	97000	71000	
01/21/00	78.91	9.37	0.00	69.54	-0.07	1880	--	143	31.2	106	196	41200	48800	
07/10/00	78.91	8.94	0.00	69.97	0.43	5710	--	869	209	301	1430	22200	19500	
01/04/01	78.91	9.21	0.00	69.70	-0.27	ND	--	ND	ND	ND	ND	--	9510	
07/16/01	78.91	9.42	0.00	69.49	-0.21	4800	--	200	21	150	440	29000	34000	
01/31/02	78.91	8.50	0.00	70.41	0.92	12000	--	250	92	500	1500	26000	31000	
04/11/02	79.67	9.08	0.00	70.59	0.18	3600	--	42	32	39	280	120000	--	
07/11/02	79.67	9.70	0.00	69.97	-0.62	--	12000	ND<100	ND<100	ND<100	ND<200	--	15000	
10/15/02	79.67	9.96	0.00	69.71	-0.26	--	1300	ND<10	ND<10	ND<10	ND<20	--	3200	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1992 Through June 2006

76 Station 1871

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-6 continued														
01/14/03	79.67	8.31	0.00	71.36	1.65	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	120	
04/16/03	79.67	8.21	0.00	71.46	0.10	--	270	ND<0.50	ND<0.50	ND<0.50	1.3	--	15	
07/16/03	79.67	9.43	0.00	70.24	-1.22	--	290	39	0.60	ND<0.50	15	--	150	
10/02/03	79.67	9.92	0.00	69.75	-0.49	--	200	ND<1.0	ND<1.0	ND<1.0	ND<2.0	--	220	
01/07/04	79.67	8.08	0.00	71.59	1.84	--	140	2.4	ND<1.0	8.6	13	--	86	
04/02/04	79.67	8.63	0.00	71.04	-0.55	--	3200	ND<20	ND<20	ND<20	ND<40	--	5900	
07/29/04	79.67	9.75	0.00	69.92	-1.12	--	170	ND<1.0	ND<1.0	ND<1.0	ND<2.0	--	160	
11/24/04	79.67	9.59	0.00	70.08	0.16	--	80	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	45	
01/24/05	79.67	8.33	0.00	71.34	1.26	--	100	1.1	ND<0.50	0.60	1.1	--	40	
06/23/05	79.67	8.33	0.00	71.34	0.00	--	230	0.52	ND<0.50	3.6	9.6	--	200	
09/28/05	79.67	9.56	0.00	70.11	-1.23	--	500	ND<0.50	ND<0.50	ND<0.50	1.2	--	980	
12/20/05	79.67	7.82	0.00	71.85	1.74	--	640	0.79	ND<0.50	0.68	2.3	--	2400	
03/10/06	79.67	6.83	0.00	72.84	0.99	--	970	1.2	ND<0.50	1.3	5.0	--	3600	
06/23/06	79.67	8.13	0.00	71.54	-1.30	--	1700	ND<12	ND<12	ND<12	ND<25	--	1100	
MW-7	**(Screen Interval in feet: 5.0-25.0)**													
06/18/99	79.92	8.70	0.00	71.22	--	ND	--	ND	ND	ND	ND	16000	13000	
01/21/00	79.92	9.30	0.00	70.62	-0.60	ND	--	ND	ND	ND	ND	12300	18200	
07/10/00	79.92	8.72	0.00	71.20	0.58	ND	--	ND	ND	ND	ND	16900	13800	
01/04/01	79.92	9.17	0.00	70.75	-0.45	ND	--	ND	ND	ND	0.719	--	37.3	
07/16/01	79.92	9.02	0.00	70.90	0.15	ND	--	ND	ND	ND	ND	7200	4700	
01/31/02	79.92	7.91	0.00	72.01	1.11	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	8900	9900	
04/11/02	80.67	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible
07/11/02	80.67	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible
10/15/02	80.67	9.81	0.00	70.86	--	--	ND<5000	ND<50	ND<50	ND<50	ND<100	--	12000	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1992 Through June 2006

76 Station 1871

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-7 continued														
01/14/03	80.67	7.89	0.00	72.78	1.92	--	ND<25000	ND<250	ND<250	ND<250	ND<500	--	33000	
04/16/03	80.67	8.04	0.00	72.63	-0.15	--	ND<25000	ND<250	ND<250	ND<250	ND<500	--	37000	
07/16/03	80.67	9.19	0.00	71.48	-1.15	--	25000	ND<250	ND<250	ND<250	ND<500	--	38000	
10/02/03	80.67	9.89	0.00	70.78	-0.70	--	17000	ND<100	ND<100	ND<100	ND<200	--	22000	
01/07/04	80.67	7.27	0.00	73.40	2.62	--	ND<20000	ND<200	460	ND<200	540	--	19000	
04/02/04	80.67	8.09	0.00	72.58	-0.82	--	3400	ND<20	ND<20	ND<20	ND<40	--	5100	
07/29/04	80.67	9.40	0.00	71.27	-1.31	--	7400	ND<50	ND<50	ND<50	ND<100	--	11000	
11/24/04	80.67	9.65	0.00	71.02	-0.25	--	6200	ND<50	ND<50	ND<50	ND<100	--	6800	
01/24/05	80.67	7.92	0.00	72.75	1.73	--	ND<5000	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	13000	
06/23/05	80.67	8.56	0.00	72.11	-0.64	--	8700	ND<25	ND<25	ND<25	ND<50	--	12000	
09/28/05	80.67	9.37	0.00	71.30	-0.81	--	1200	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5700	
12/20/05	80.67	6.31	0.00	74.36	3.06	--	1100	0.90	ND<0.50	24	37	--	8200	
03/10/06	80.67	5.84	0.00	74.83	0.47	--	1200	24	ND<0.50	3.6	ND<1.0	--	4700	
06/23/06	80.67	6.83	0.00	73.84	-0.99	--	1800	21	ND<12	ND<12	ND<25	--	1500	
MW-8	**(Screen Interval in feet: 5.0-25.0)**													
06/18/99	80.96	9.10	0.00	71.86	--	ND	--	ND	ND	ND	ND	290	160	
01/21/00	80.96	10.00	0.00	70.96	-0.90	ND	--	ND	ND	ND	1.09	224	221	
07/10/00	80.96	7.94	0.00	73.02	2.06	ND	--	ND	ND	ND	ND	234	223	
01/04/01	80.96	9.76	0.00	71.20	-1.82	3790	--	141	8.92	128	375	--	34200	
07/16/01	80.96	9.15	0.00	71.81	0.61	ND	--	ND	ND	ND	ND	66	70	
01/31/02	80.96	7.99	0.00	72.97	1.16	5900	--	86	ND<10	630	390	670	700	
04/11/02	81.71	9.00	0.00	72.71	-0.26	250	--	2.0	ND<0.50	38	2.2	410	--	
07/11/02	81.71	9.60	0.00	72.11	-0.60	--	110	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	120	
10/15/02	81.71	10.60	0.00	71.11	-1.00	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	21	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

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76 Station 1871

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-8 continued														
01/14/03	81.71	8.63	0.00	73.08	1.97	--	ND<250	2.6	ND<2.5	18	ND<5.0	--	430	
04/16/03	81.71	8.98	0.00	72.73	-0.35	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	18	
07/16/03	81.71	9.63	0.00	72.08	-0.65	--	110	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	140	
10/02/03	81.71	10.41	0.00	71.30	-0.78	--	75	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	78	
01/07/04	81.71	8.21	0.00	73.50	2.20	--	ND<5000	ND<50	ND<50	ND<50	340	--	3700	
04/02/04	81.71	8.51	0.00	73.20	-0.30	--	3000	ND<20	ND<20	ND<20	ND<40	--	5200	
07/29/04	81.71	9.78	0.00	71.93	-1.27	--	3200	ND<25	ND<25	ND<25	ND<50	--	5500	
11/24/04	81.71	10.19	0.00	71.52	-0.41	--	2100	ND<10	ND<10	ND<10	ND<20	--	2400	
01/24/05	81.71	8.49	0.00	73.22	1.70	--	ND<2500	4.0	0.52	ND<0.50	29	--	1800	
06/23/05	81.71	8.34	0.00	73.37	0.15	--	490	ND<0.50	ND<0.50	1.5	ND<1.0	--	980	
09/28/05	81.71	9.61	0.00	72.10	-1.27	--	270	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	520	
12/20/05	81.71	7.35	0.00	74.36	2.26	--	2700	ND<0.50	ND<0.50	78	82	--	86	
03/10/06	81.71	6.63	0.00	75.08	0.72	--	190	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	51	
06/23/06	81.71	6.56	0.00	75.15	0.07	--	3600	ND<0.50	ND<0.50	100	57	--	ND<0.50	
MW-9	**(Screen Interval in feet: DNA)**													
01/31/02	82.07	14.72	0.00	67.35	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	680	910	
04/11/02	82.07	14.85	0.00	67.22	-0.13	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	620	--	
07/11/02	82.07	15.39	0.00	66.68	-0.54	--	580	ND<5.0	ND<5.0	ND<5.0	ND<10	--	580	
10/15/02	82.07	16.16	0.00	65.91	-0.77	--	570	ND<5.0	ND<5.0	ND<5.0	ND<10	--	1400	
01/14/03	82.07	14.75	0.00	67.32	1.41	--	ND<200	ND<2.0	ND<2.0	ND<2.0	ND<4.0	--	220	
04/16/03	82.07	14.51	0.00	67.56	0.24	--	ND<500	ND<5.0	ND<5.0	ND<5.0	ND<10	--	860	
07/16/03	82.07	15.54	0.00	66.53	-1.03	--	ND<2500	ND<25	ND<25	ND<25	ND<50	--	1300	
10/02/03	82.07	16.28	0.00	65.79	-0.74	--	820	ND<5.0	ND<5.0	ND<5.0	ND<10	--	990	
01/07/04	82.07	14.65	0.00	67.42	1.63	--	ND<1000	ND<10	ND<10	ND<10	ND<20	--	1200	

Table 2

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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-9 continued														
04/02/04	82.07	15.08	0.00	66.99	-0.43	--	510	ND<5.0	ND<5.0	ND<5.0	ND<10	--	850	
07/29/04	82.07	15.81	0.00	66.26	-0.73	--	ND<1000	ND<10	ND<10	ND<10	ND<20	--	1300	
11/24/04	82.07	16.25	0.00	65.82	-0.44	--	1100	ND<5.0	ND<5.0	ND<5.0	ND<10	--	1300	
01/24/05	82.07	14.96	0.00	67.11	1.29	--	ND<1000	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2300	
06/23/05	82.07	14.40	0.00	67.67	0.56	--	1500	ND<5.0	ND<5.0	ND<5.0	ND<10	--	2000	
09/28/05	82.07	15.67	0.00	66.40	-1.27	--	ND<2500	ND<25	ND<25	ND<25	ND<50	--	2400	
12/20/05	82.07	14.61	0.00	67.46	1.06	--	560	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2800	
03/10/06	82.07	13.39	0.00	68.68	1.22	--	1100	ND<5.0	ND<5.0	ND<5.0	ND<10	--	2100	
06/23/06	82.07	13.68	0.00	68.39	-0.29	--	1700	ND<12	ND<12	ND<12	ND<25	--	1700	
MW-10	**(Screen Interval in feet: DNA)**													
01/31/02	74.98	8.02	0.00	66.96	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	1.2	
04/11/02	74.98	7.60	0.00	67.38	0.42	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
07/11/02	74.98	8.91	0.00	66.07	-1.31	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.1	
10/15/02	74.98	11.49	0.00	63.49	-2.58	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
01/14/03	74.98	8.47	0.00	66.51	3.02	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
04/16/03	74.98	7.92	0.00	67.06	0.55	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
07/16/03	74.98	7.03	0.00	67.95	0.89	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
10/02/03	74.98	7.63	0.00	67.35	-0.60	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
01/07/04	74.98	6.22	0.00	68.76	1.41	--	54	ND<0.50	ND<0.50	1.3	4.5	--	ND<2.0	
04/02/04	74.98	7.49	0.00	67.49	-1.27	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.0	
07/29/04	74.98	7.41	0.00	67.57	0.08	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
11/24/04	74.98	7.55	0.00	67.43	-0.14	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3.5	
01/24/05	74.98	6.40	0.00	68.58	1.15	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.71	
06/23/05	74.98	6.46	0.00	68.52	-0.06	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1992 Through June 2006

76 Station 1871

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-10 continued														
09/28/05	74.98	7.52	0.00	67.46	-1.06	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/20/05	74.98	6.04	0.00	68.94	1.48	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.57	
03/10/06	74.98	5.86	0.00	69.12	0.18	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
06/23/06	74.98	6.42	0.00	68.56	-0.56	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.50	
MW-11	**(Screen Interval in feet: DNA)**													
01/31/02	77.31	11.71	0.00	65.60	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<1.0	
04/11/02	77.31	11.95	0.00	65.36	-0.24	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
07/11/02	77.31	12.79	0.00	64.52	-0.84	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
10/15/02	77.31	13.67	0.00	63.64	-0.88	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
01/14/03	77.31	13.31	0.00	64.00	0.36	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
04/16/03	77.31	14.08	0.00	63.23	-0.77	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
07/16/03	77.31	12.98	0.00	64.33	1.10	--	65	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
10/02/03	77.31	12.96	0.00	64.35	0.02	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
01/07/04	77.31	16.20	0.00	61.11	-3.24	--	63	ND<0.50	ND<0.50	0.68	2.2	--	ND<2.0	
04/02/04	77.31	18.01	0.00	59.30	-1.81	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
07/29/04	77.31	14.39	0.00	62.92	3.62	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
11/24/04	77.31	16.72	0.00	60.59	-2.33	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
01/24/05	77.31	17.44	0.00	59.87	-0.72	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
06/23/05	77.31	12.37	0.00	64.94	5.07	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
09/28/05	77.31	16.78	0.00	60.53	-4.41	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/20/05	77.31	17.06	0.00	60.25	-0.28	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
03/10/06	77.31	16.20	0.00	61.11	0.86	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
06/23/06	77.31	12.65	0.00	64.66	3.55	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

Date Sampled	TPH-D	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	pH	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen	Pre-purge ORP	Post-purge ORP
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(pH)	(mg/l)	(mg/l)	(mV)	(mV)
MW-1													
06/18/99	--	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--
07/16/01	--	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--
01/14/03	--	ND<100	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	--
07/16/03	--	--	ND<10000	--	--	--	--	--	--	--	--	--	--
10/02/03	--	--	ND<25000	--	--	--	--	--	--	25.1	45.7	80.1	21.0
01/07/04	--	--	ND<20000	--	--	--	--	--	--	12.12	12.31	142	24
04/02/04	--	--	ND<50	--	--	--	--	--	--	11.33	13.42	36	34
07/29/04	--	--	ND<2000	--	--	--	--	--	--	5.37	5.51	-2	-4
11/24/04	--	--	ND<2000	--	--	--	--	--	6.58	3.08	4.73	-43	-39
01/24/05	--	--	ND<2000	--	--	--	--	--	--	14.3	17.0	100	96
06/23/05	--	--	ND<50000	--	--	--	--	--	--	--	4.79	-103	--
09/28/05	--	--	ND<1000	--	--	--	--	--	--	3.45	4.73	-91	-94
12/20/05	--	--	ND<250	--	--	--	--	--	--	4.16	2.76	-210	-328
03/10/06	--	--	ND<2500	--	--	--	--	--	--	1.45	1.64	-511	-615
06/23/06	--	--	ND<2500	--	--	--	--	--	--	--	4.31	-030	--
MW-4													
04/18/96	110	--	--	--	--	--	--	--	--	--	--	--	--
07/24/96	ND	--	--	--	--	--	--	--	--	--	--	--	--
10/24/96	ND	--	--	--	--	--	--	--	--	--	--	--	--
01/28/97	210	--	--	--	--	--	--	--	--	--	--	--	--
07/29/97	ND	--	--	--	--	--	--	--	--	--	--	--	--
01/14/98	ND	--	--	--	--	--	--	--	--	--	--	--	--
07/01/98	ND	--	--	--	--	--	--	--	--	--	--	--	--
MW-6													
06/18/99	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

Date Sampled	TPH-D	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	pH	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen	Pre-purge ORP	Post-purge ORP
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(pH)	(mg/l)	(mg/l)	(mV)	(mV)
MW-6 continued													
07/16/01	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--
07/11/02	--	ND<1000	ND<5000	ND<100	ND<100	ND<200	ND<100	ND<100	--	--	--	--	--
01/14/03	--	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	--
07/16/03	--	--	ND<500	--	--	--	--	--	--	--	--	--	--
10/02/03	--	--	ND<1000	--	--	--	--	--	--	15.5	26.2	139	175
01/07/04	--	--	ND<1000	--	--	--	--	--	--	12.63	14.29	-12	24
04/02/04	--	--	ND<2000	--	--	--	--	--	--	12.63	12.72	9	23
07/29/04	--	--	ND<100	--	--	--	--	--	--	4.74	4.79	-19	-8
11/24/04	--	--	ND<50	--	--	--	--	--	6.99	2.81	5.54	-29	-12
01/24/05	--	--	ND<50	--	--	--	--	--	--	14.5	15.3	72	70
06/23/05	--	--	ND<1000	--	--	--	--	--	--	1.86	1.73	70	71
09/28/05	--	--	ND<1000	--	--	--	--	--	--	2.63	2.57	-74	-80
12/20/05	--	--	ND<250	--	--	--	--	--	--	1.52	2.30	-280	-217
03/10/06	--	--	ND<250	--	--	--	--	--	--	5.25	0.80	173	224
06/23/06	--	--	ND<6200	--	--	--	--	--	--	--	3.39	-105	--
MW-7													
06/18/99	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--
07/16/01	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--
01/14/03	--	ND<50000	ND<250000	ND<1000	ND<1000	ND<1000	ND<1000	ND<1000	--	--	--	--	--
07/16/03	--	--	ND<250000	--	--	--	--	--	--	--	--	--	--
10/02/03	--	--	ND<100000	--	--	--	--	--	--	24.3	28.2	109	153
01/07/04	--	--	ND<200000	--	--	--	--	--	--	10.79	10.85	23	5
04/02/04	--	--	ND<2000	--	--	--	--	--	--	12.41	11.32	24	10
07/29/04	--	--	ND<5000	--	--	--	--	--	--	4.10	3.96	17	18
11/24/04	--	--	ND<5000	--	--	--	--	--	6.60	1.99	3.29	-43	-24
01/24/05	--	--	ND<5000	--	--	--	--	--	--	17.2	14.5	71	48

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

Date Sampled	TPH-D	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	pH	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen	Pre-purge ORP	Post-purge ORP
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(pH)	(mg/l)	(mg/l)	(mV)	(mV)
MW-7 continued													
06/23/05	--	--	ND<50000	--	--	--	--	--	--	2.84	2.18	-37	-32
09/28/05	--	--	ND<1000	--	--	--	--	--	--	3.45	3.63	-81	-85
12/20/05	--	--	ND<250	--	--	--	--	--	--	2.04	2.03	-263	-256
03/10/06	--	--	ND<250	--	--	--	--	--	--	1.28	0.95	164	-179
06/23/06	--	--	ND<6200	--	--	--	--	--	--	--	3.95	-119	--
MW-8													
06/18/99	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--
07/16/01	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--
01/14/03	--	ND<500	ND<2500	ND<10	ND<10	ND<10	ND<10	ND<10	--	--	--	--	--
07/16/03	--	--	ND<500	--	--	--	--	--	--	--	--	--	--
10/02/03	--	--	ND<500	--	--	--	--	--	--	23.6	28.5	188	197
01/07/04	--	--	ND<50000	--	--	--	--	--	--	9.94	13.13	-15	21
04/02/04	--	--	ND<2000	--	--	--	--	--	--	13.37	12.82	-10	16
07/29/04	--	--	ND<2500	--	--	--	--	--	--	3.68	3.73	18	30
11/24/04	--	--	ND<1000	--	--	--	--	--	6.67	3.97	2.71	-36	-20
01/24/05	--	--	ND<2500	--	--	--	--	--	--	41.6	41.2	56	60
06/23/05	--	--	ND<1000	--	--	--	--	--	--	2.05	2.13	58	56
09/28/05	--	--	ND<1000	--	--	--	--	--	--	2.12	1.98	-40	-26
12/20/05	--	--	ND<250	--	--	--	--	--	--	2.02	3.72	-402	-326
03/10/06	--	--	ND<250	--	--	--	--	--	--	1.51	0.99	-182	-181
06/23/06	--	--	ND<250	--	--	--	--	--	--	--	2.81	-135	--
MW-9													
01/31/02	--	ND<140	ND<3600	ND<7.1	ND<7.1	ND<7.1	ND<7.1	ND<7.1	--	--	--	--	--
01/14/03	--	ND<400	ND<2000	ND<8.0	ND<8.0	ND<8.0	ND<8.0	ND<8.0	--	--	--	--	--
07/16/03	--	--	ND<25000	--	--	--	--	--	--	--	--	--	--
10/02/03	--	--	ND<5000	--	--	--	--	--	--	29.5	28.4	201	203

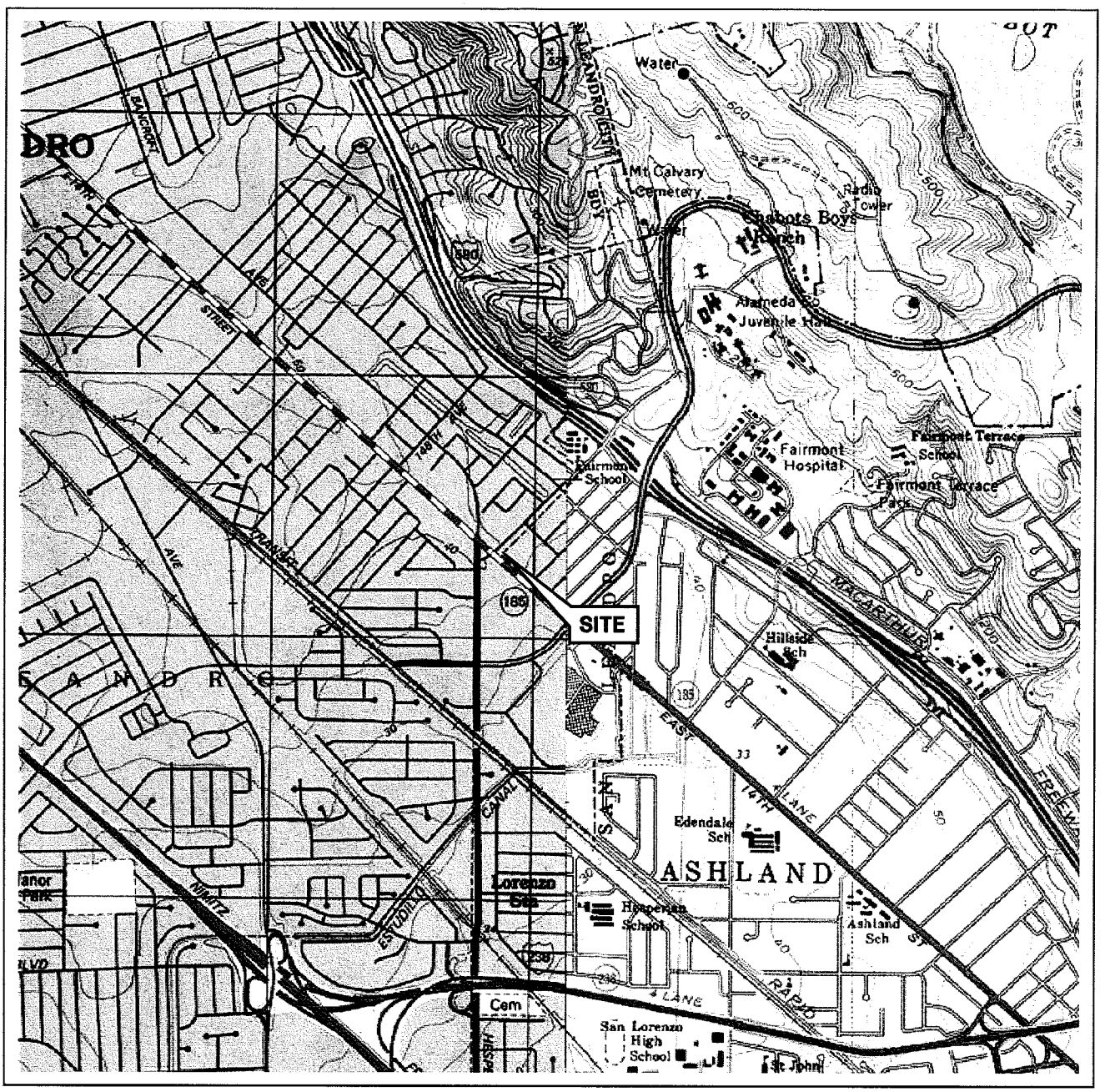
Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

Date Sampled	TPH-D	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	pH	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen	Pre-purge ORP	Post-purge ORP
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(pH)	(mg/l)	(mg/l)	(mV)	(mV)
MW-9 continued													
01/07/04	--	--	ND<10000	--	--	--	--	--	--	10.45	12.00	9	27
04/02/04	--	--	ND<500	--	--	--	--	--	--	16.37	13.21	12	32
07/29/04	--	--	ND<1000	--	--	--	--	--	--	--	--	--	--
11/24/04	--	--	ND<500	--	--	--	--	--	6.47	3.24	1.71	-68	-67
01/24/05	--	--	ND<1000	--	--	--	--	--	--	26.0	22.5	-45	-45
06/23/05	--	--	ND<10000	--	--	--	--	--	--	1.50	1.44	-136	-144
09/28/05	--	--	ND<50000	--	--	--	--	--	--	2.51	1.67	-94	-119
12/20/05	--	--	ND<250	--	--	--	--	--	--	5.05	4.67	-102	-42
03/10/06	--	--	ND<2500	--	--	--	--	--	--	2.82	2.13	160	161
06/23/06	--	--	ND<6200	--	--	--	--	--	--	--	0.84	-65	--
MW-10													
01/31/02	--	ND<20	ND<500	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	--	--
01/14/03	--	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	--
07/16/03	--	--	ND<500	--	--	--	--	--	--	--	--	--	--
10/02/03	--	--	ND<500	--	--	--	--	--	--	24.8	25.7	192	213
01/07/04	--	--	ND<500	--	--	--	--	--	--	10.04	11.62	35	59
04/02/04	--	--	ND<50	--	--	--	--	--	--	11.91	12.02	42	45
07/29/04	--	--	ND<50	--	--	--	--	--	--	4.81	4.83	83	102
11/24/04	--	--	ND<50	--	--	--	--	--	6.89	2.59	3.07	-39	-29
01/24/05	--	--	ND<50	--	--	--	--	--	--	27.5	25.5	87	84
06/23/05	--	--	ND<1000	--	--	--	--	--	--	7.83	176	40	44
09/28/05	--	--	ND<1000	--	--	--	--	--	--	6.95	2.37	-66	-64
12/20/05	--	--	ND<250	--	--	--	--	--	--	3.85	3.45	59	58
03/10/06	--	--	ND<250	--	--	--	--	--	--	2.52	4.48	87	83
06/23/06	--	--	ND<250	--	--	--	--	--	--	--	1.49	-68	--
MW-11													

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

Date Sampled	TPH-D	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	pH	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen	Pre-purge ORP	Post-purge ORP
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(pH)	(mg/l)	(mg/l)	(mV)	(mV)
MW-11	**continued**												
01/31/02	--	ND<20	ND<500	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	--	--
01/14/03	--	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	--
07/16/03	--	--	ND<500	--	--	--	--	--	--	--	--	--	--
10/02/03	--	--	ND<500	--	--	--	--	--	--	33.7	23.2	202	255
01/07/04	--	--	ND<500	--	--	--	--	--	--	11.69	13.82	99	103
04/02/04	--	--	ND<50	--	--	--	--	--	--	11.94	14.08	-1	108
07/29/04	--	--	ND<50	--	--	--	--	--	--	--	--	--	--
11/24/04	--	--	ND<50	--	--	--	--	--	6.75	3.85	4.32	82	143
01/24/05	--	--	ND<50	--	--	--	--	--	--	30.01	32.6	79	83
06/23/05	--	--	ND<1000	--	--	--	--	--	--	2.17	2.16	76	82
09/28/05	--	--	ND<1000	--	--	--	--	--	--	4.97	4.59	-4	-1
12/20/05	--	--	ND<250	--	--	--	--	--	--	5.16	4.77	35	070
03/10/06	--	--	ND<250	--	--	--	--	--	--	5.11	9.99	68	97
06/23/06	--	--	ND<250	--	--	--	--	--	--	--	7.74	-26	--

FIGURES



SOURCE:

United States Geological Survey
7.5 Minute Topographic Map:
Hayward and San Leandro
Quadrangles

VICINITY MAP

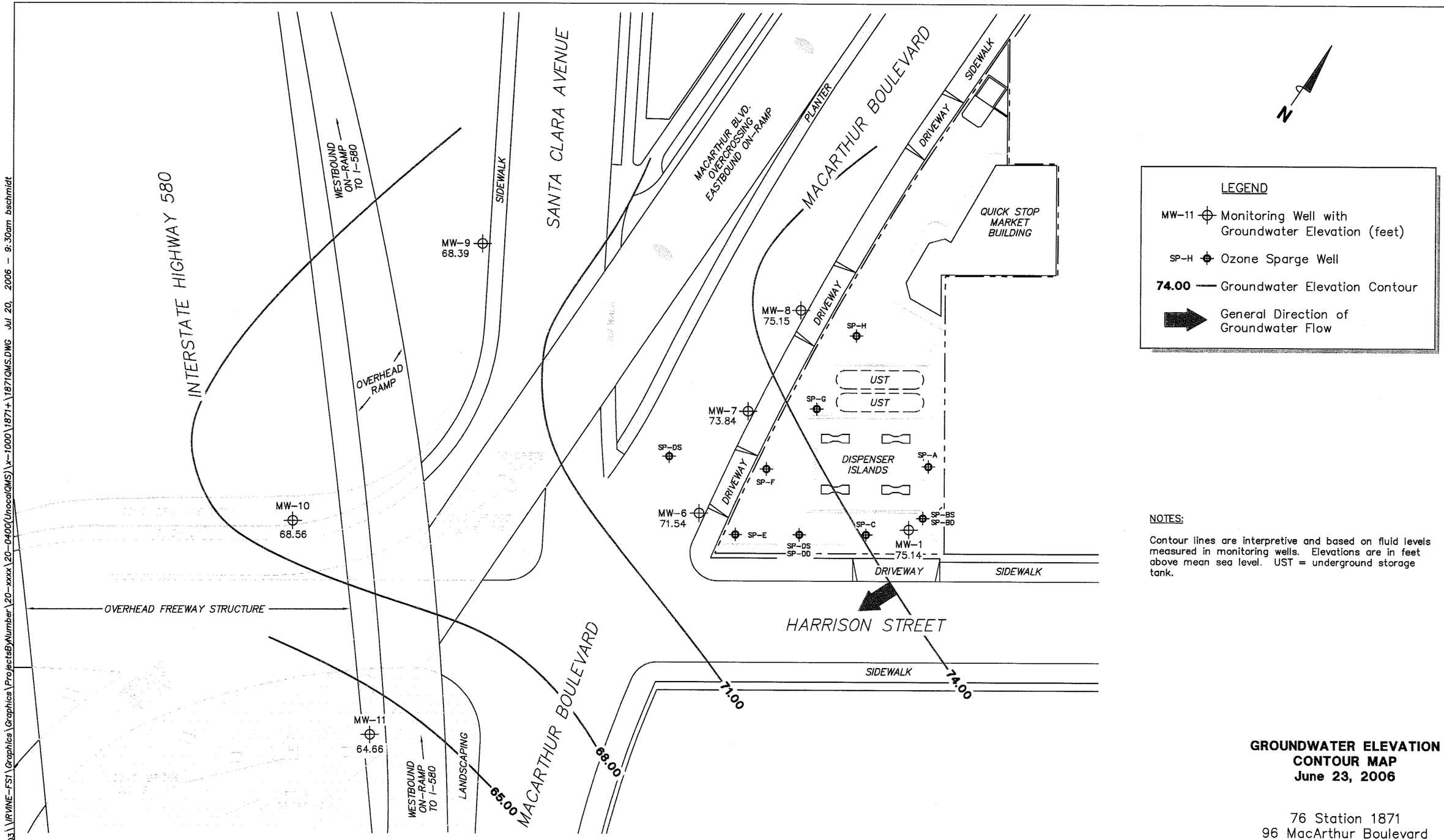
76 Station 3292
15008 East 14th Street
San Leandro, California

FIGURE 1

TRC

PS = 1:1

L:\ V I C I N I T Y M A P S\3292VM.DWG Mar 28, 2006 – 5:12pm lwinters



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.

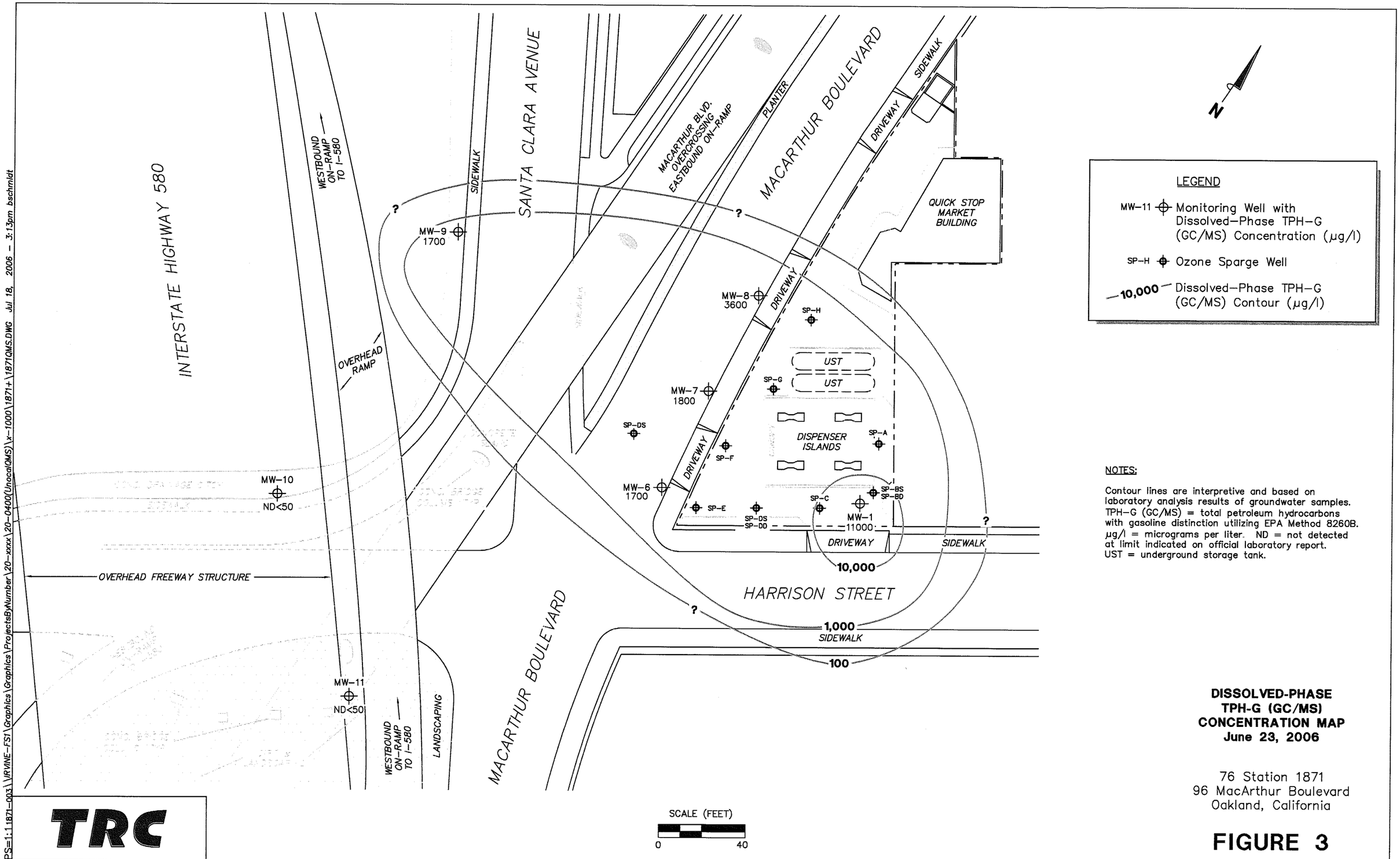
GROUNDWATER ELEVATION CONTOUR MAP
June 23, 2006

76 Station 1871
96 MacArthur Boulevard
Oakland, California

FIGURE 2

TRC

PS=1:1 1871-003 \\IRVINE-FS1\Graphics\Graphics\ProjectsByNumber\20-xxxx\20-0400(UnocalQMS)\x-1000\1871+\1871QMS.DWG Jul 20, 2006 - 9:30am bschmidt



NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. TPH-G (GC/MS) = total petroleum hydrocarbons with gasoline distinction utilizing EPA Method 8260B. µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report. UST = underground storage tank.

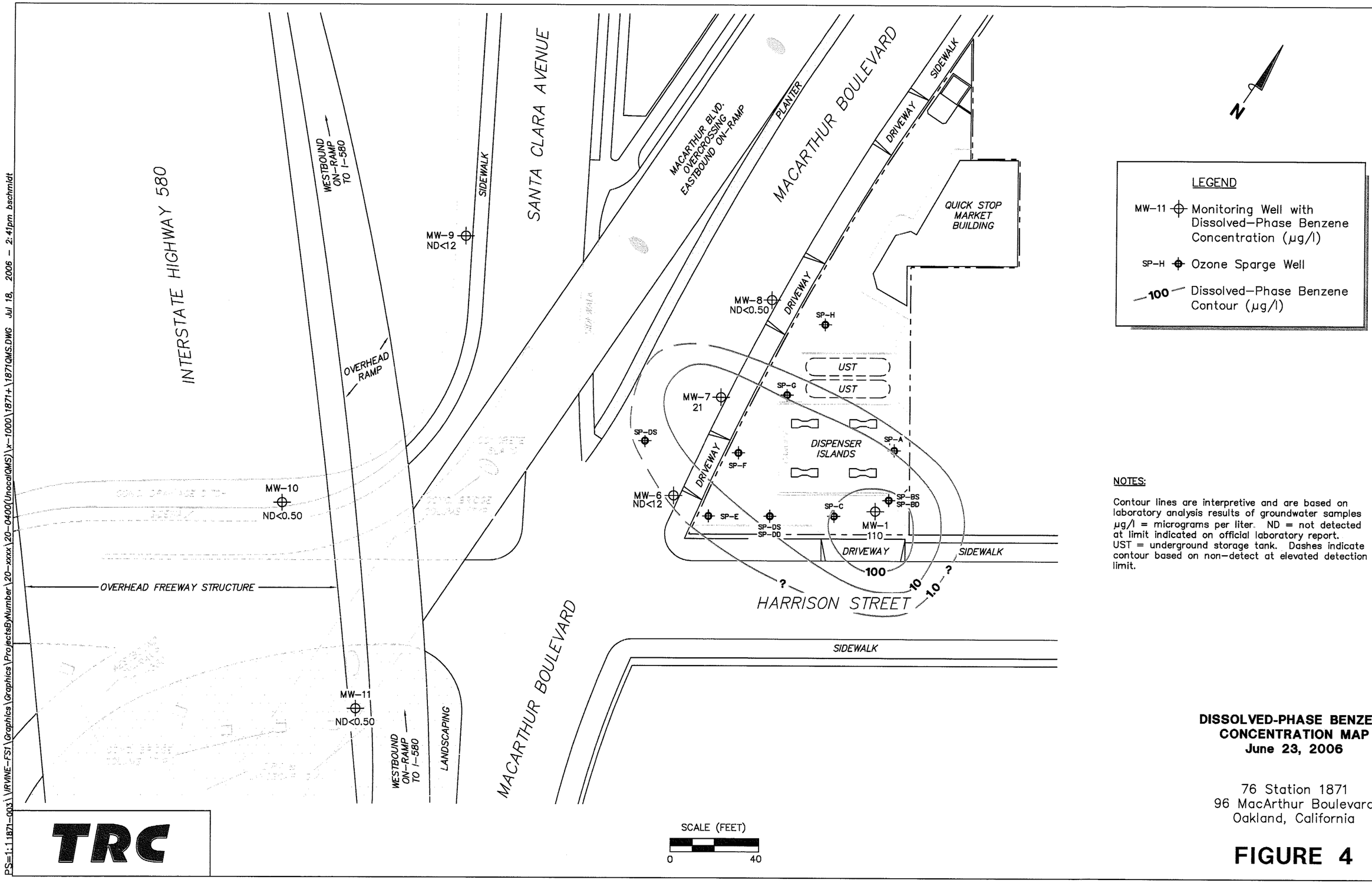
DISSOLVED-PHASE TPH-G (GC/MS) CONCENTRATION MAP
June 23, 2006

76 Station 1871
96 MacArthur Boulevard
Oakland, California

FIGURE 3

TRC

PS=1:1 1871-003 \\IRVINE-FS1\Graphics\Projects\ByNumber\20-xxxx\20-0400(Unocal(MS)\x-1000\1871+\1871QMS.DWG Jul 18, 2006 - 3:13pm bschmidt



NOTES:

Contour lines are interpretive and are based on laboratory analysis results of groundwater samples µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report. UST = underground storage tank. Dashes indicate contour based on non-detect at elevated detection limit.

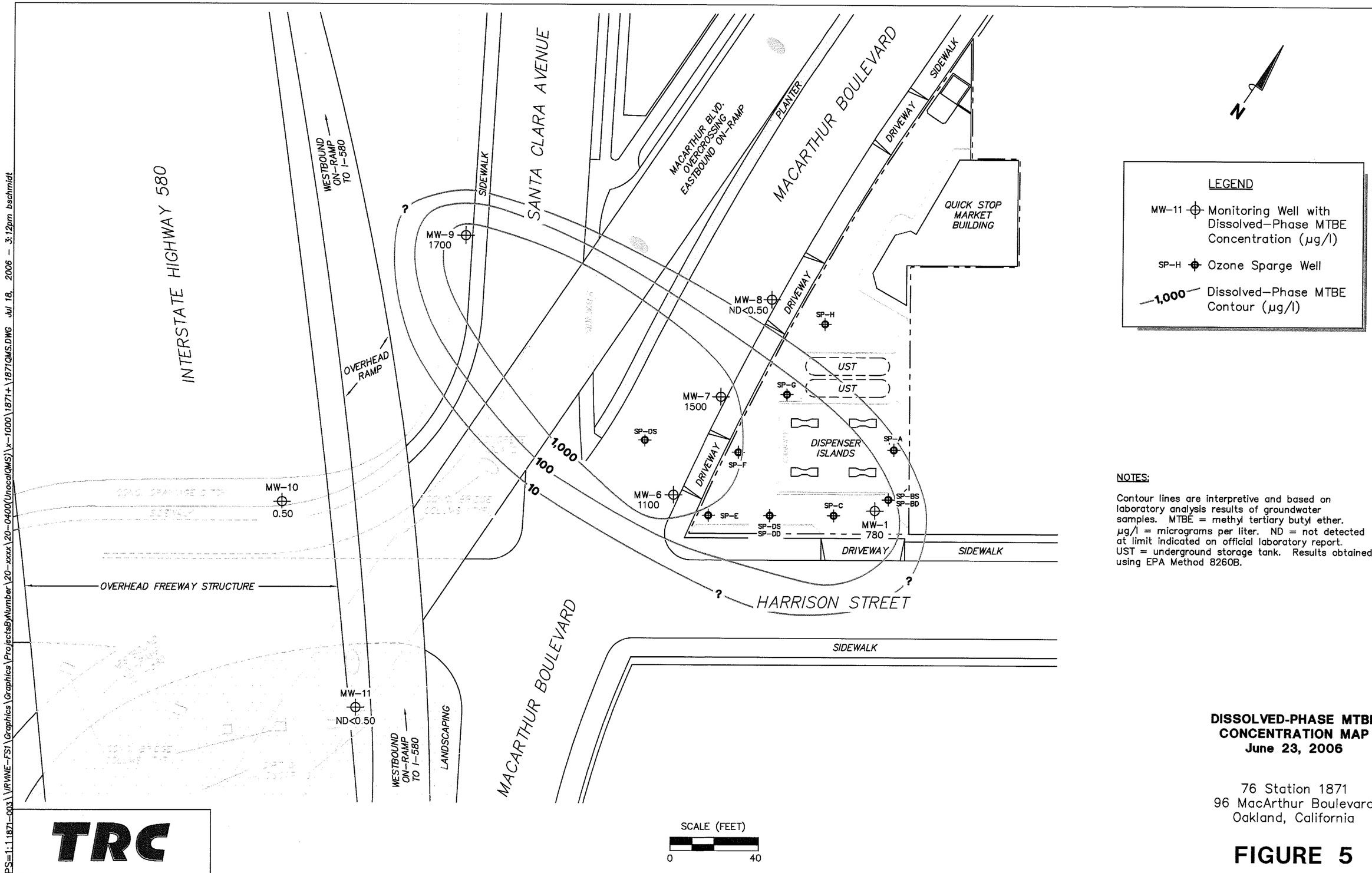
DISSOLVED-PHASE BENZENE CONCENTRATION MAP
June 23, 2006

76 Station 1871
96 MacArthur Boulevard
Oakland, California

FIGURE 4

TRC

PS=1:1.1871-003\IRVINE-FS1\Graphics\Graphics\ProjectsByNumber\20-xxxx\20-0400(UnocalQMS)\x-1000\1871+\1871QMS.DWG Jul 18, 2006 - 2:41pm bschmidt



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. Results obtained using EPA Method 8260B.

DISSOLVED-PHASE MTBE CONCENTRATION MAP
June 23, 2006

76 Station 1871
96 MacArthur Boulevard
Oakland, California

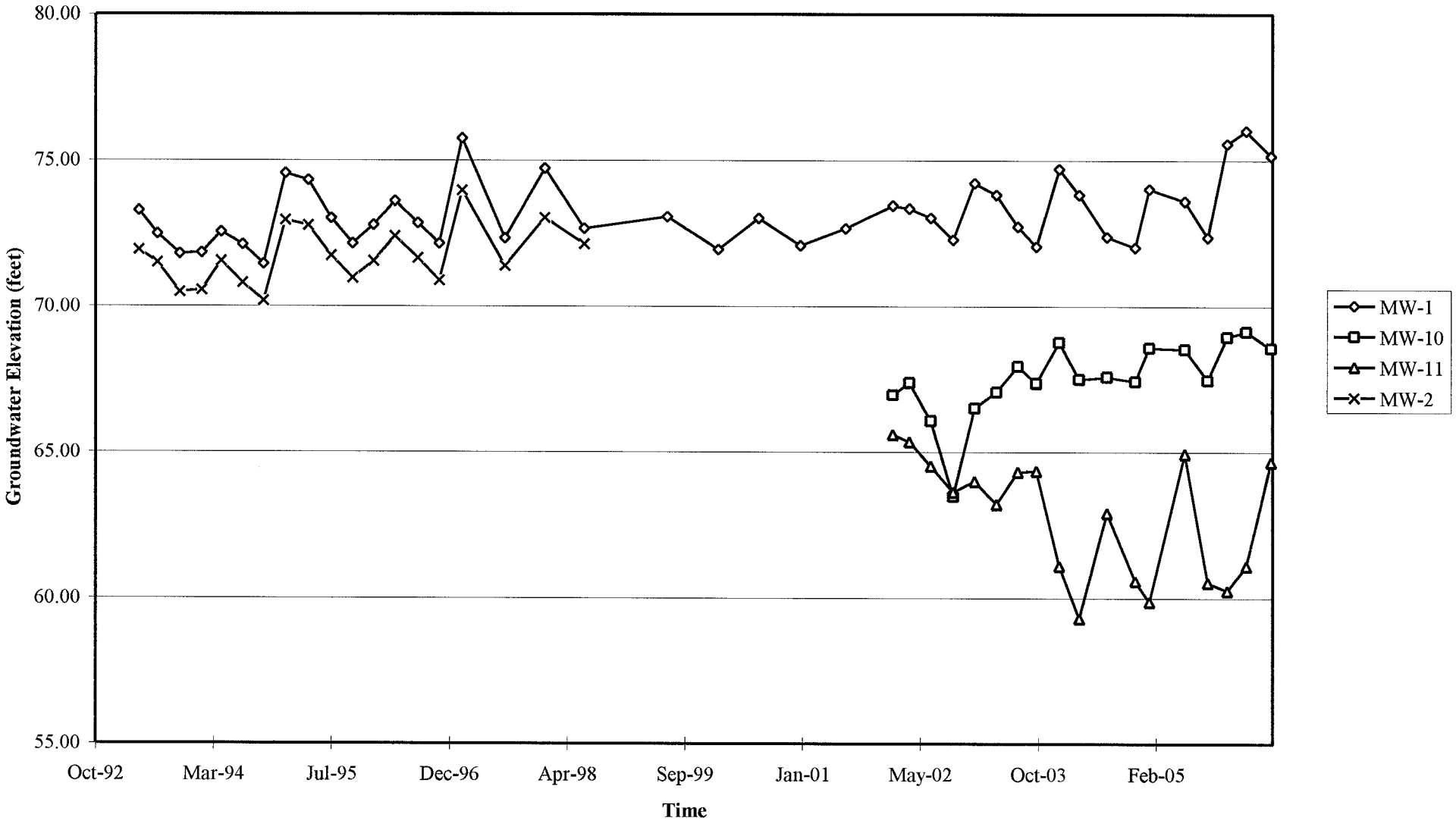
FIGURE 5

TRC

PS=1:1 1871-003 \\IRVNE-FS1\Graphics\ProjectsByNumber\20-xxxx\20-0400(Unocal(MS)\x-1000\1871+\1871QMS.DWG Jul 18, 2006 - 3:12pm bschmidt

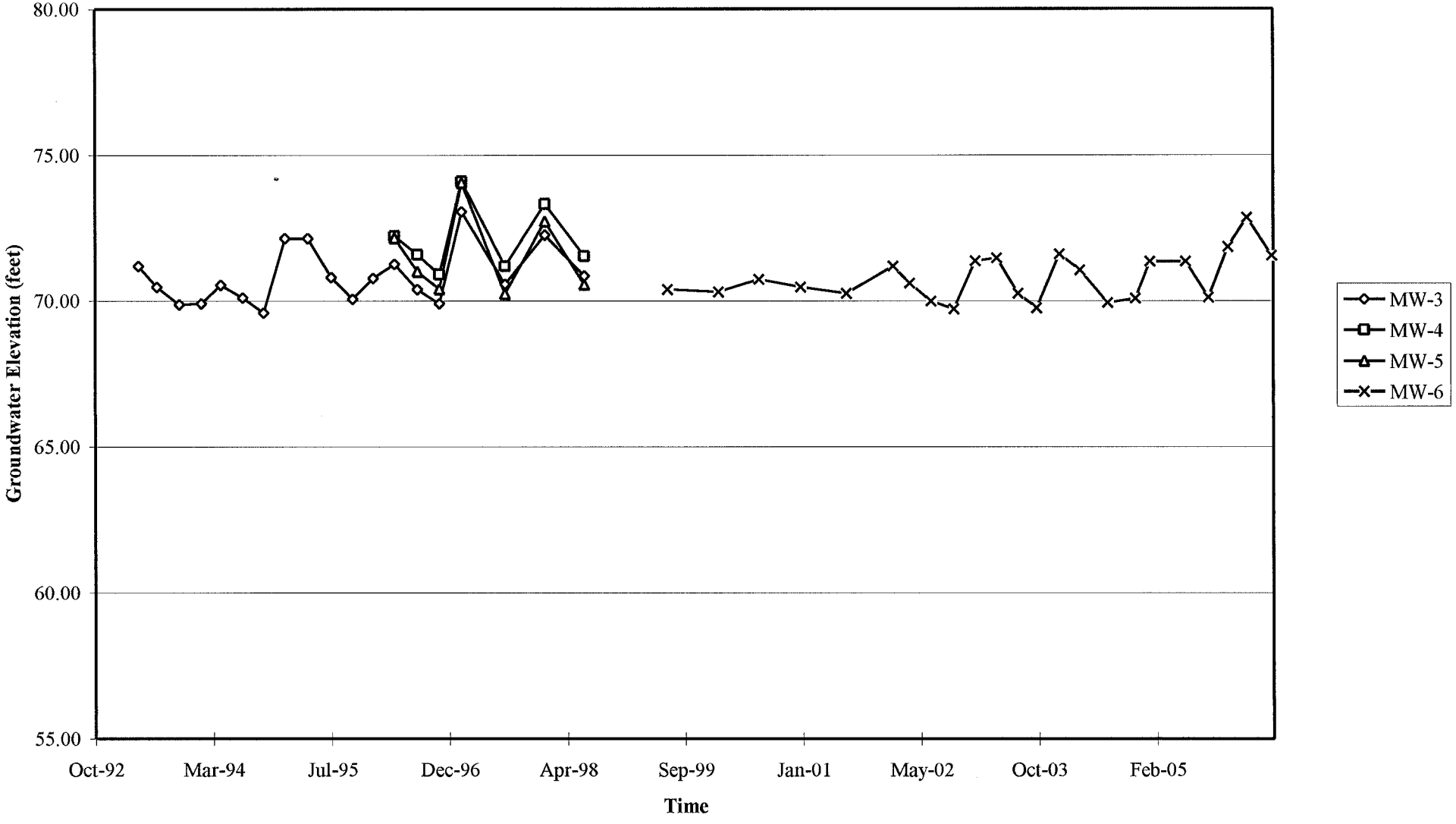
GRAPHS

Groundwater Elevations vs. Time
76 Station 1871



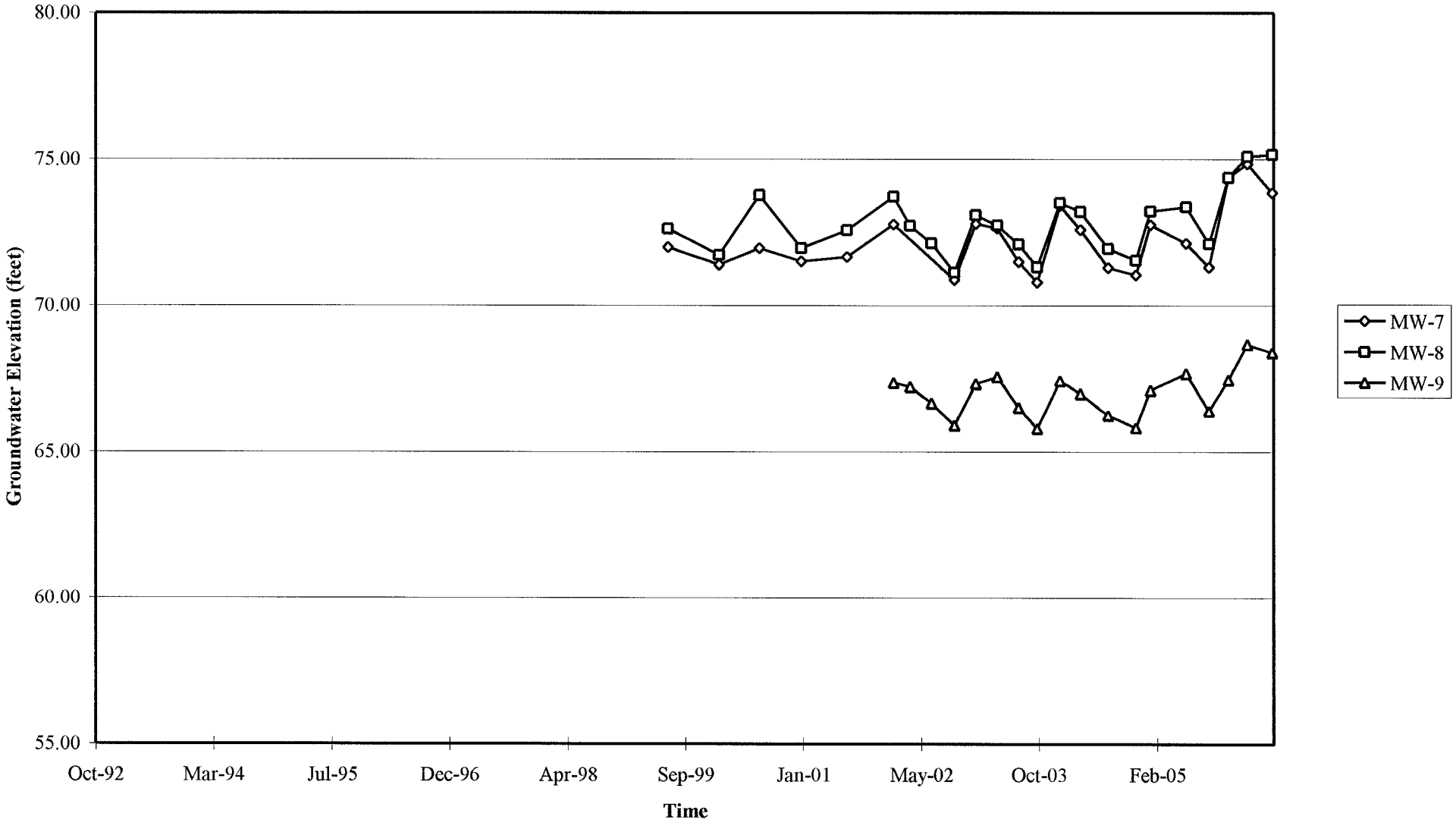
Elevations may have been corrected for apparent changes due to resurvey

Groundwater Elevations vs. Time
76 Station 1871



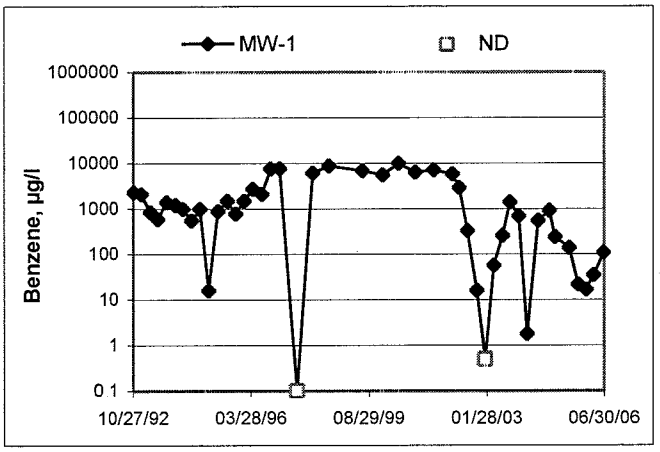
Elevations may have been corrected for apparent changes due to resurvey

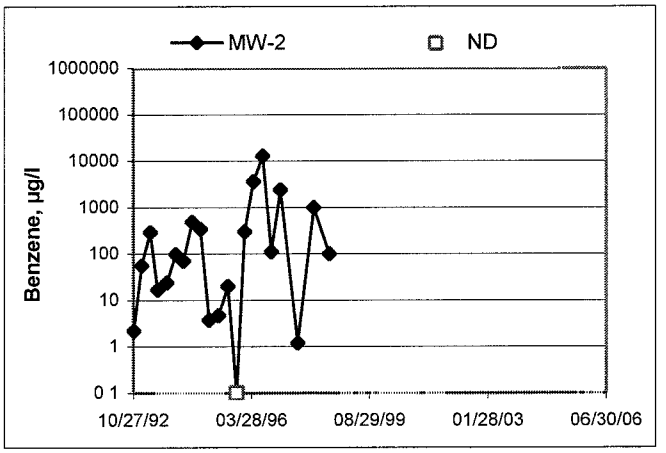
Groundwater Elevations vs. Time
76 Station 1871

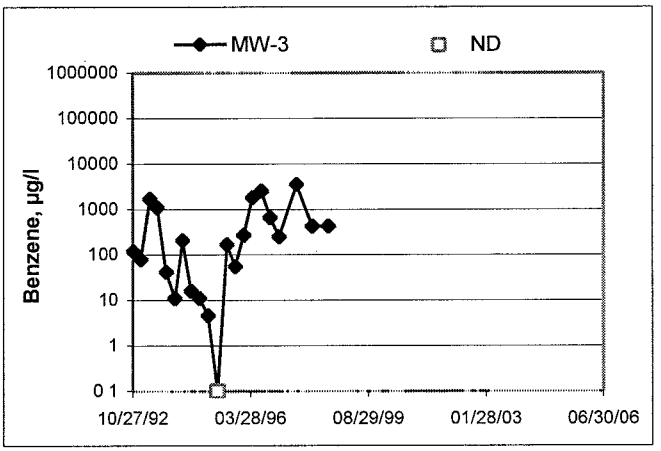


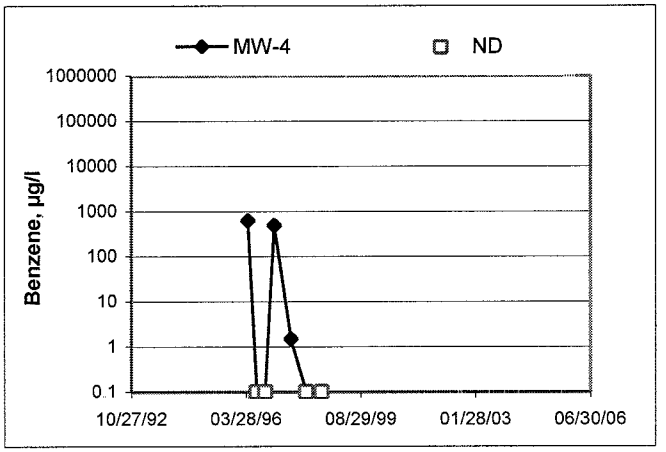
Elevations may have been corrected for apparent changes due to resurvey

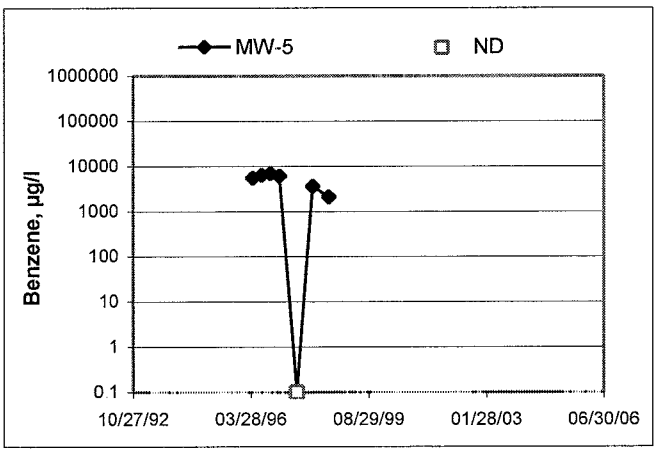
Benzene Concentrations vs Time
76 Station 1871

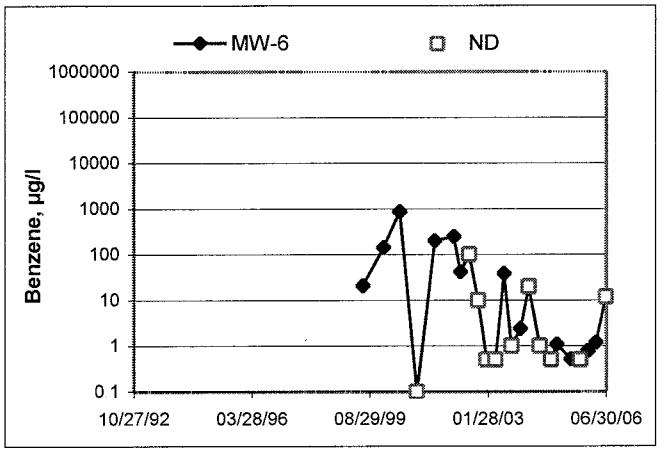


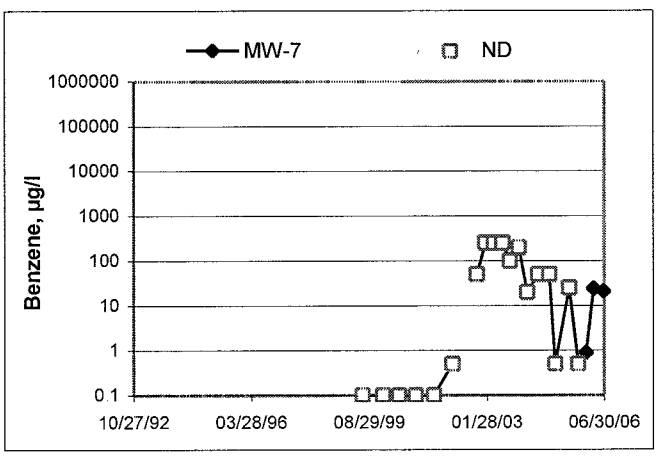


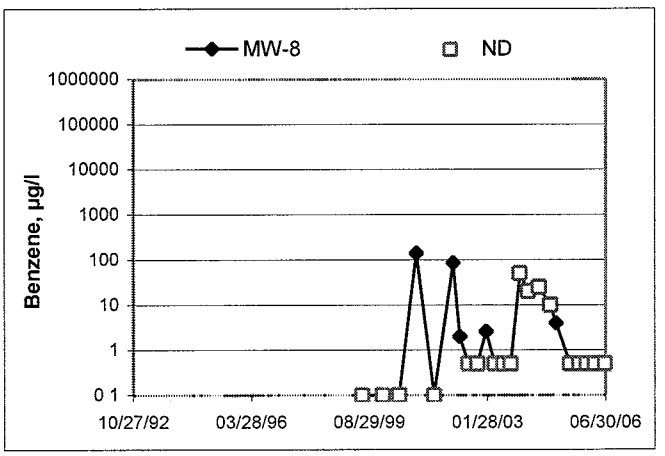




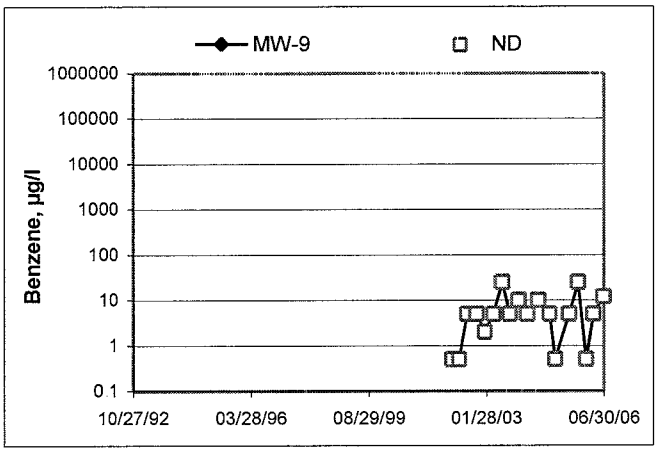


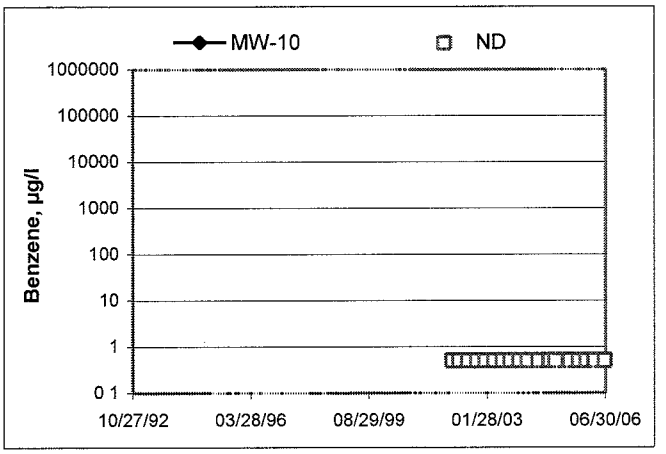


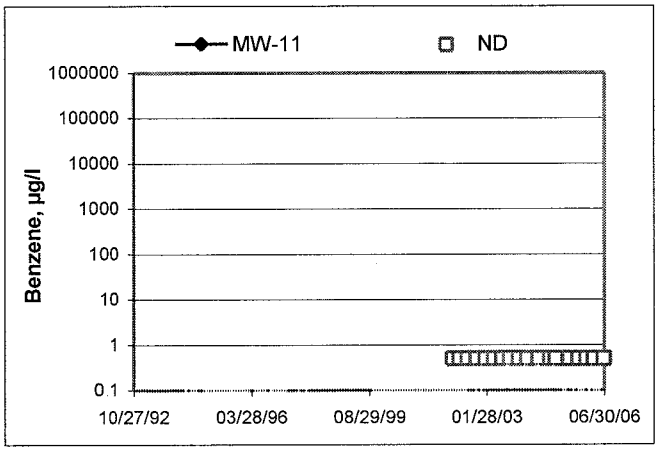




Benzene Concentrations vs Time
76 Station 1871







GENERAL FIELD PROCEDURES

Groundwater Monitoring and Sampling Assignments

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

Fluid Level Measurements

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

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

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

Purging and Groundwater Parameter Measurement

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

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

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

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

Groundwater Sample Collection

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

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

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

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

Sequence of Gauging, Purging and Sampling

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

Decontamination

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

Exceptions

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

FIELD MONITORING DATA SHEET

Technician: Nale, Ben Job #/Task #: 410600011/F120 Date: 06/23/06

Site # 1871 Project Manager K-Woodburne Page 1 of 1

Well #	Time Gauged	TOC	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
MW-8	0045	—	24.72	6.56	—	—	0324	2"
MW-7	0059	—	24.74	6.85	—	—	0317	2"
MW-6	0117	—	24.95	8.13	—	—	0307	2"
MW-1	0123	—	24.16	11.85	—	—	0350	4"

~~FIELD DATA COMPLETE~~ ~~QA/QC~~ ~~COC~~ ~~WELL BOX CONDITION SHEETS~~

WTT CERTIFICATE MANIFEST ~~DRUM INVENTORY~~ ~~TRAFFIC CONTROL~~

FIELD MONITORING DATA SHEET

Technician: HAFFENSCHEID Job #/Task #: 410600001/FA20 Date: 6/23/06

Site # 1871 Project Manager AF Page 1 of 1

Well #	Time Gauged	TOC	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
MW-11	1240	X	30.05	12.65	0	0	0225	2"
MW-10	1249	X	20.00	6.42	0	0	0238	2"
MW-9	1257	X	19.85	13.68	0	0	0250	2"

FIELD DATA COMPLETE ✓ QA/QC ✓ COC ✓ WELL BOX CONDITION SHEETS

WTT CERTIFICATE MANIFEST DRUM INVENTORY ✓ TRAFFIC CONTROL ✓

GROUNDWATER SAMPLING FIELD NOTES

Technician: HAFKENSCHEID

Site: 1871 Project No.: 410600001 Date: 6/23/06

Well No.: MW-11 Purge Method: DSA

Depth to Water (feet): 12.65 Depth to Product (feet): 0

Total Depth (feet): 30.05 LPH & Water Recovered (gallons): 0

Water Column (feet): 17.40 Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 16.13 1 Well Volume (gallons): 3

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	~~Turbidity~~ ORP	D.O.
0125			3	2.66	16.1	7.41	-26	7.74
			6	2.71	16.4	7.33	-42	7.69
	0129		9	2.75	16.3	7.34	-56	7.67

Static at Time Sampled	Total Gallons Purged	Time Sampled
14.86	9	0225

Comments:

Well No.: MW-10 Purge Method: DSA

Depth to Water (feet): 6.42 Depth to Product (feet): 0

Total Depth (feet): 20.00 LPH & Water Recovered (gallons): 0

Water Column (feet): 13.58 Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 9.13 1 Well Volume (gallons): 2

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	~~Turbidity~~ ORP	D.O.
0135			2	829	16.1	7.34	-68	1.49
			4	821	16.3	7.27	-81	1.78
	0141		6	820	16.0	7.25	-86	1.81

Static at Time Sampled	Total Gallons Purged	Time Sampled
7.51	6	0238

Comments:

GROUNDWATER SAMPLING FIELD NOTES

Technician: HAFFENSCHEID

Site: 1871 Project No.: 41060001 Date: 6/23/06 (2)

Well No.: MW-9 Purge Method: DIA

Depth to Water (feet): 13.68 Depth to Product (feet): 0

Total Depth (feet): 19.85 LPH & Water Recovered (gallons): 0

Water Column (feet): 6.17 Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 14.91 1 Well Volume (gallons): 1

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	Turbidity ORP	D.O
0153			1	1177	16.6	6.96	-65	0.84
			2	1182	16.8	6.94	-60	0.77
	0155		3	1189	16.5	6.92	-49	0.71

Static at Time Sampled	Total Gallons Purged	Time Sampled
14.27	3	0250

Comments:

Well No.: _____ Purge Method: _____

Depth to Water (feet): _____ Depth to Product (feet): _____

Total Depth (feet): _____ LPH & Water Recovered (gallons): _____

Water Column (feet): _____ Casing Diameter (Inches): _____

80% Recharge Depth (feet): _____ 1 Well Volume (gallons): _____

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	Turbidity	D.O

Static at Time Sampled	Total Gallons Purged	Time Sampled

Comments:

GROUNDWATER SAMPLING FIELD NOTES

Technician: Nate

Site: 1671 Project No.: 41060001 Date: 06/23/06

Well No.: MW-8 Purge Method: DtA

Depth to Water (feet): 6.56 Depth to Product (feet): —

Total Depth (feet): 24.72 LPH & Water Recovered (gallons): —

Water Column (feet): 18.16 Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 10.19 1 Well Volume (gallons): 3

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F (C))	pH	~~Turbidity~~ ORP	D.O.
0232			3	287	19.5	6.15	-135	2.81
			6	270	19.3	6.14	-127	3.52
	0235		9	289	19.9	6.15	-120	4.67

Static at Time Sampled	Total Gallons Purged	Time Sampled
7.94	9	0324

Comments:

Well No.: MW-1 Purge Method: DtA

Depth to Water (feet): 11.85 Depth to Product (feet): —

Total Depth (feet): 24.16 LPH & Water Recovered (gallons): —

Water Column (feet): 12.31 Casing Diameter (Inches): 4"

80% Recharge Depth (feet): 14.31 1 Well Volume (gallons): 8

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F (C))	pH	~~Turbidity~~ ORP	D.O.
0243			8	440	20.2	5.75	-030	4.31
			16	471	20.2	5.85	-063	3.93
	0253		24	566	19.6	6.14	-120	4.86

Static at Time Sampled	Total Gallons Purged	Time Sampled
14.29	24	0330

Comments:

GROUNDWATER SAMPLING FIELD NOTES

Technician: Nate

Site: 1871 Project No.: 41060001 Date: 06/23/06

Well No.: MW-6 Purge Method: DIA

Depth to Water (feet): 8.13 Depth to Product (feet): —

Total Depth (feet): 24.95 LPH & Water Recovered (gallons): —

Water Column (feet): 16.82 Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 11.49 1 Well Volume (gallons): 3

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F (C))	pH	~~Turbidity~~ ORP	D.O
0204			3	832	20.3	6.37	-105	3.39
			6	705	19.9	6.22	-102	2.75
	0207		9	717	20.0	6.14	-109	2.70

Static at Time Sampled	Total Gallons Purged	Time Sampled
8.72	9	0307

Comments:

Well No.: MW-7 Purge Method: DIA

Depth to Water (feet): 6.83 Depth to Product (feet): —

Total Depth (feet): 24.74 LPH & Water Recovered (gallons): —

Water Column (feet): 17.91 Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 10.41 1 Well Volume (gallons): 3

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F (C))	pH	~~Turbidity~~ ORP	D.O
0216			3	797	20.6	6.17	~~353~~ -119	3.95
			6	601	20.3	6.31	-129	3.52
	0221		9	566	19.7	6.26	-139	3.20

Static at Time Sampled	Total Gallons Purged	Time Sampled
7.38	9	0317

Comments:

BC Laboratories, Inc

Date of Report: 07/12/2006

Anju Farfan

TRC Alton Geoscience

21 Technology Drive
Irvine, CA 92618-2302

RE: 1871

BC Lab Number: 0606327

Enclosed are the results of analyses for samples received by the laboratory on 06/26/06 22:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Vanessa Hooker

Client Service Rep

Authorized Signature

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

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

Project: 1871
Project Number: [none]
Project Manager: Anju Farfan

Reported: 07/12/06 13:09

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information				
0606327-01	**COC Number:**	---	**Receive Date:**	06/26/06 22:30	Delivery Work Order:
	Project Number:	1871	**Sampling Date:**	06/23/06 03:50	Global ID: T0600101493
	Sampling Location:	MW-1	**Sample Depth:**	---	Matrix: W
	Sampling Point:	MW-1	**Sample Matrix:**	Water	Samle QC Type (SACode): CS
	Sampled By:	Nate/Ben of TRCI			Cooler ID:
0606327-02	**COC Number:**	---	**Receive Date:**	06/26/06 22:30	Delivery Work Order:
	Project Number:	1871	**Sampling Date:**	06/26/06 02:38	Global ID: T0600101493
	Sampling Location:	MW-10	**Sample Depth:**	---	Matrix: W
	Sampling Point:	MW-10	**Sample Matrix:**	Water	Samle QC Type (SACode): CS
	Sampled By:	Nate/Ben of TRCI			Cooler ID:
0606327-03	**COC Number:**	---	**Receive Date:**	06/26/06 22:30	Delivery Work Order:
	Project Number:	1871	**Sampling Date:**	06/26/06 02:25	Global ID: T0600101493
	Sampling Location:	MW-11	**Sample Depth:**	---	Matrix: W
	Sampling Point:	MW-11	**Sample Matrix:**	Water	Samle QC Type (SACode): CS
	Sampled By:	Nate/Ben of TRCI			Cooler ID:
0606327-04	**COC Number:**	---	**Receive Date:**	06/26/06 22:30	Delivery Work Order:
	Project Number:	1871	**Sampling Date:**	06/26/06 03:07	Global ID: T0600101493
	Sampling Location:	MW-6	**Sample Depth:**	---	Matrix: W
	Sampling Point:	MW-6	**Sample Matrix:**	Water	Samle QC Type (SACode): CS
	Sampled By:	Nate/Ben of TRCI			Cooler ID:
0606327-05	**COC Number:**	---	**Receive Date:**	06/26/06 22:30	Delivery Work Order:
	Project Number:	1871	**Sampling Date:**	06/26/06 03:17	Global ID: T0600101493
	Sampling Location:	MW-7	**Sample Depth:**	---	Matrix: W
	Sampling Point:	MW-7	**Sample Matrix:**	Water	Samle QC Type (SACode): CS
	Sampled By:	Nate/Ben of TRCI			Cooler ID:

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21 Technology Drive
Irvine CA, 92618-2302

Project: 1871
Project Number: [none]
Project Manager: Anju Farfan

Reported: 07/12/06 13:09

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information				
0606327-06	**COC Number:**	---	**Receive Date:**	06/26/06 22:30	Delivery Work Order:
	Project Number:	1871	**Sampling Date:**	06/26/06 03:24	Global ID: T0600101493
	Sampling Location:	MW-8	**Sample Depth:**	---	Matrix: W
	Sampling Point:	MW-8	**Sample Matrix:**	Water	Samle QC Type (SACode): CS
	Sampled By:	Nate/Ben of TRCI			Cooler ID:
0606327-07	**COC Number:**	---	**Receive Date:**	06/26/06 22:30	Delivery Work Order:
	Project Number:	1871	**Sampling Date:**	06/26/06 02:50	Global ID: T0600101493
	Sampling Location:	MW-9	**Sample Depth:**	---	Matrix: W
	Sampling Point:	MW-9	**Sample Matrix:**	Water	Samle QC Type (SACode): CS
	Sampled By:	Nate/Ben of TRCI			Cooler ID:

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Project: 1871
Project Number: [none]
Project Manager: Anju Farfan

Reported: 07/12/06 13:09

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0606327-01 | **Client Sample Name:** 1871, MW-1, MW-1, 6/23/2006 3:50:00AM, Nate/Ben

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	110	ug/L	5.0		EPA-8260	06/28/06	06/29/06 22:34	MWB	MS-V13	10	BPF1647	ND	A01
Ethylbenzene	610	ug/L	5.0		EPA-8260	06/28/06	06/29/06 22:34	MWB	MS-V13	10	BPF1647	ND	A01
Methyl t-butyl ether	780	ug/L	5.0		EPA-8260	06/28/06	06/29/06 22:34	MWB	MS-V13	10	BPF1647	ND	A01
Toluene	ND	ug/L	5.0		EPA-8260	06/28/06	06/29/06 22:34	MWB	MS-V13	10	BPF1647	ND	A01
Total Xylenes	1600	ug/L	10		EPA-8260	06/28/06	06/29/06 22:34	MWB	MS-V13	10	BPF1647	ND	A01
Ethanol	ND	ug/L	2500		EPA-8260	06/28/06	06/29/06 22:34	MWB	MS-V13	10	BPF1647	ND	A01
Total Purgeable Petroleum Hydrocarbons	11000	ug/L	500		EPA-8260	06/28/06	06/29/06 22:34	MWB	MS-V13	10	BPF1647	ND	A01
1,2-Dichloroethane-d4 (Surrogate)	96.2	%	76 - 114	(LCL - UCL)	EPA-8260	06/28/06	06/29/06 22:34	MWB	MS-V13	10	BPF1647		
Toluene-d8 (Surrogate)	98.9	%	88 - 110	(LCL - UCL)	EPA-8260	06/28/06	06/29/06 22:34	MWB	MS-V13	10	BPF1647		
4-Bromofluorobenzene (Surrogate)	95.9	%	86 - 115	(LCL - UCL)	EPA-8260	06/28/06	06/29/06 22:34	MWB	MS-V13	10	BPF1647		

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Project: 1871
Project Number: [none]
Project Manager: Anju Farfan

Reported: 07/12/06 13:09

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0606327-02 | **Client Sample Name:** 1871, MW-10, MW-10, 6/26/2006 2:38:00AM, Nate/Ben

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	06/28/06	06/29/06 21:25	MWB	MS-V13	1	BPF1647	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	06/28/06	06/29/06 21:25	MWB	MS-V13	1	BPF1647	ND	
Methyl t-butyl ether	0.50	ug/L	0.50		EPA-8260	06/28/06	06/29/06 21:25	MWB	MS-V13	1	BPF1647	ND	
Toluene	ND	ug/L	0.50		EPA-8260	06/28/06	06/29/06 21:25	MWB	MS-V13	1	BPF1647	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	06/28/06	06/29/06 21:25	MWB	MS-V13	1	BPF1647	ND	
Ethanol	ND	ug/L	250		EPA-8260	06/28/06	06/29/06 21:25	MWB	MS-V13	1	BPF1647	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	06/28/06	06/29/06 21:25	MWB	MS-V13	1	BPF1647	ND	
1,2-Dichloroethane-d4 (Surrogate)	106	%	76 - 114	(LCL - UCL)	EPA-8260	06/28/06	06/29/06 21:25	MWB	MS-V13	1	BPF1647		
Toluene-d8 (Surrogate)	103	%	88 - 110	(LCL - UCL)	EPA-8260	06/28/06	06/29/06 21:25	MWB	MS-V13	1	BPF1647		
4-Bromofluorobenzene (Surrogate)	95.8	%	86 - 115	(LCL - UCL)	EPA-8260	06/28/06	06/29/06 21:25	MWB	MS-V13	1	BPF1647		

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Project: 1871
Project Number: [none]
Project Manager: Anju Farfan

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0606327-03 | **Client Sample Name:** 1871, MW-11, MW-11, 6/26/2006 2:25:00AM, Nate/Ben

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	06/28/06	06/28/06 22:45	MWB	MS-V13	1	BPF1647	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	06/28/06	06/28/06 22:45	MWB	MS-V13	1	BPF1647	ND	
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	06/28/06	06/28/06 22:45	MWB	MS-V13	1	BPF1647	ND	
Toluene	ND	ug/L	0.50		EPA-8260	06/28/06	06/28/06 22:45	MWB	MS-V13	1	BPF1647	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	06/28/06	06/28/06 22:45	MWB	MS-V13	1	BPF1647	ND	
Ethanol	ND	ug/L	250		EPA-8260	06/28/06	06/28/06 22:45	MWB	MS-V13	1	BPF1647	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	06/28/06	06/28/06 22:45	MWB	MS-V13	1	BPF1647	ND	
1,2-Dichloroethane-d4 (Surrogate)	96.8	%	76 - 114	(LCL - UCL)	EPA-8260	06/28/06	06/28/06 22:45	MWB	MS-V13	1	BPF1647		
Toluene-d8 (Surrogate)	100	%	88 - 110	(LCL - UCL)	EPA-8260	06/28/06	06/28/06 22:45	MWB	MS-V13	1	BPF1647		
4-Bromofluorobenzene (Surrogate)	95.7	%	86 - 115	(LCL - UCL)	EPA-8260	06/28/06	06/28/06 22:45	MWB	MS-V13	1	BPF1647		

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Project: 1871
Project Number: [none]
Project Manager: Anju Farfan

Reported: 07/12/06 13:09

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0606327-04 | **Client Sample Name:** 1871, MW-6, MW-6, 6/26/2006 3:07:00AM, Nate/Ben

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	12		EPA-8260	06/28/06	06/29/06 22:56	MWB	MS-V13	25	BPF1647	ND	A01
Ethylbenzene	ND	ug/L	12		EPA-8260	06/28/06	06/29/06 22:56	MWB	MS-V13	25	BPF1647	ND	A01
Methyl t-butyl ether	1100	ug/L	12		EPA-8260	06/28/06	06/29/06 22:56	MWB	MS-V13	25	BPF1647	ND	A01
Toluene	ND	ug/L	12		EPA-8260	06/28/06	06/29/06 22:56	MWB	MS-V13	25	BPF1647	ND	A01
Total Xylenes	ND	ug/L	25		EPA-8260	06/28/06	06/29/06 22:56	MWB	MS-V13	25	BPF1647	ND	A01
Ethanol	ND	ug/L	6200		EPA-8260	06/28/06	06/29/06 22:56	MWB	MS-V13	25	BPF1647	ND	A01
Total Purgeable Petroleum Hydrocarbons	1700	ug/L	1200		EPA-8260	06/28/06	06/29/06 22:56	MWB	MS-V13	25	BPF1647	ND	A01, A53
1,2-Dichloroethane-d4 (Surrogate)	99.3	%	76 - 114	(LCL - UCL)	EPA-8260	06/28/06	06/29/06 22:56	MWB	MS-V13	25	BPF1647		
Toluene-d8 (Surrogate)	100	%	88 - 110	(LCL - UCL)	EPA-8260	06/28/06	06/29/06 22:56	MWB	MS-V13	25	BPF1647		
4-Bromofluorobenzene (Surrogate)	93.1	%	86 - 115	(LCL - UCL)	EPA-8260	06/28/06	06/29/06 22:56	MWB	MS-V13	25	BPF1647		

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Irvine CA, 92618-2302	Project Manager: Anju Farfan	**Reported:** 07/12/06 13:09

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0606327-05 | **Client Sample Name:** 1871, MW-7, MW-7, 6/26/2006 3:17:00AM, Nate/Ben

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	21	ug/L	12		EPA-8260	06/28/06	06/29/06 23:19	MWB	MS-V13	25	BPF1647	ND	A01
Ethylbenzene	ND	ug/L	12		EPA-8260	06/28/06	06/29/06 23:19	MWB	MS-V13	25	BPF1647	ND	A01
Methyl t-butyl ether	1500	ug/L	12		EPA-8260	06/28/06	06/29/06 23:19	MWB	MS-V13	25	BPF1647	ND	A01
Toluene	ND	ug/L	12		EPA-8260	06/28/06	06/29/06 23:19	MWB	MS-V13	25	BPF1647	ND	A01
Total Xylenes	ND	ug/L	25		EPA-8260	06/28/06	06/29/06 23:19	MWB	MS-V13	25	BPF1647	ND	A01
Ethanol	ND	ug/L	6200		EPA-8260	06/28/06	06/29/06 23:19	MWB	MS-V13	25	BPF1647	ND	A01
Total Purgeable Petroleum Hydrocarbons	1800	ug/L	1200		EPA-8260	06/28/06	06/29/06 23:19	MWB	MS-V13	25	BPF1647	ND	A01, A53
1,2-Dichloroethane-d4 (Surrogate)	95.3	%	76 - 114 (LCL - UCL)		EPA-8260	06/28/06	06/29/06 23:19	MWB	MS-V13	25	BPF1647		
Toluene-d8 (Surrogate)	99.9	%	88 - 110 (LCL - UCL)		EPA-8260	06/28/06	06/29/06 23:19	MWB	MS-V13	25	BPF1647		
4-Bromofluorobenzene (Surrogate)	94.0	%	86 - 115 (LCL - UCL)		EPA-8260	06/28/06	06/29/06 23:19	MWB	MS-V13	25	BPF1647		

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Project: 1871
Project Number: [none]
Project Manager: Anju Farfan

Reported: 07/12/06 13:09

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0606327-06 | **Client Sample Name:** 1871, MW-8, MW-8, 6/26/2006 3:24:00AM, Nate/Ben

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	06/28/06	06/29/06 21:48	MWB	MS-V13	1	BPF1647	ND	
Ethylbenzene	100	ug/L	0.50		EPA-8260	06/28/06	06/29/06 21:48	MWB	MS-V13	1	BPF1647	ND	
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	06/28/06	06/29/06 21:48	MWB	MS-V13	1	BPF1647	ND	
Toluene	ND	ug/L	0.50		EPA-8260	06/28/06	06/29/06 21:48	MWB	MS-V13	1	BPF1647	ND	
Total Xylenes	57	ug/L	1.0		EPA-8260	06/28/06	06/29/06 21:48	MWB	MS-V13	1	BPF1647	ND	
Ethanol	ND	ug/L	250		EPA-8260	06/28/06	06/29/06 21:48	MWB	MS-V13	1	BPF1647	ND	
Total Purgeable Petroleum Hydrocarbons	3600	ug/L	50		EPA-8260	06/28/06	06/29/06 21:48	MWB	MS-V13	1	BPF1647	ND	S01
1,2-Dichloroethane-d4 (Surrogate)	125	%	76 - 114	(LCL - UCL)	EPA-8260	06/28/06	06/29/06 21:48	MWB	MS-V13	1	BPF1647		A19, S09
Toluene-d8 (Surrogate)	100	%	88 - 110	(LCL - UCL)	EPA-8260	06/28/06	06/29/06 21:48	MWB	MS-V13	1	BPF1647		
4-Bromofluorobenzene (Surrogate)	97.5	%	86 - 115	(LCL - UCL)	EPA-8260	06/28/06	06/29/06 21:48	MWB	MS-V13	1	BPF1647		

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Project: 1871
Project Number: [none]
Project Manager: Anju Farfan

Reported: 07/12/06 13:09

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0606327-07 | **Client Sample Name:** 1871, MW-9, MW-9, 6/26/2006 2:50:00AM, Nate/Ben

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	12		EPA-8260	06/28/06	06/29/06 23:42	MWB	MS-V13	25	BPF1647	ND	A01
Ethylbenzene	ND	ug/L	12		EPA-8260	06/28/06	06/29/06 23:42	MWB	MS-V13	25	BPF1647	ND	A01
Methyl t-butyl ether	1700	ug/L	12		EPA-8260	06/28/06	06/29/06 23:42	MWB	MS-V13	25	BPF1647	ND	A01
Toluene	ND	ug/L	12		EPA-8260	06/28/06	06/29/06 23:42	MWB	MS-V13	25	BPF1647	ND	A01
Total Xylenes	ND	ug/L	25		EPA-8260	06/28/06	06/29/06 23:42	MWB	MS-V13	25	BPF1647	ND	A01
Ethanol	ND	ug/L	6200		EPA-8260	06/28/06	06/29/06 23:42	MWB	MS-V13	25	BPF1647	ND	A01
Total Purgeable Petroleum Hydrocarbons	1700	ug/L	1200		EPA-8260	06/28/06	06/29/06 23:42	MWB	MS-V13	25	BPF1647	ND	A01, A53
1,2-Dichloroethane-d4 (Surrogate)	84.3	%	76 - 114	(LCL - UCL)	EPA-8260	06/28/06	06/29/06 23:42	MWB	MS-V13	25	BPF1647		
Toluene-d8 (Surrogate)	96.4	%	88 - 110	(LCL - UCL)	EPA-8260	06/28/06	06/29/06 23:42	MWB	MS-V13	25	BPF1647		
4-Bromofluorobenzene (Surrogate)	89.8	%	86 - 115	(LCL - UCL)	EPA-8260	06/28/06	06/29/06 23:42	MWB	MS-V13	25	BPF1647		

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Project: 1871
Project Number: [none]
Project Manager: Anju Farfan

Reported: 07/12/06 13:09

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
Benzene	BPF1647	Matrix Spike	0605234-65	ND	24.950	25.000	ug/L		99.8		70 - 130	
		Matrix Spike Duplicate	0605234-65	ND	25.530	25.000	ug/L	2.18	102	20	70 - 130	
Toluene	BPF1647	Matrix Spike	0605234-65	ND	24.980	25.000	ug/L		99.9		70 - 130	
		Matrix Spike Duplicate	0605234-65	ND	26.270	25.000	ug/L	4.98	105	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	BPF1647	Matrix Spike	0605234-65	ND	9.3600	10.000	ug/L		93.6		76 - 114	
		Matrix Spike Duplicate	0605234-65	ND	8.9800	10.000	ug/L		89.8		76 - 114	
Toluene-d8 (Surrogate)	BPF1647	Matrix Spike	0605234-65	ND	9.9500	10.000	ug/L		99.5		88 - 110	
		Matrix Spike Duplicate	0605234-65	ND	10.050	10.000	ug/L		100		88 - 110	
4-Bromofluorobenzene (Surrogate)	BPF1647	Matrix Spike	0605234-65	ND	10.010	10.000	ug/L		100		86 - 115	
		Matrix Spike Duplicate	0605234-65	ND	9.6800	10.000	ug/L		96.8		86 - 115	

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Project: 1871
Project Number: [none]
Project Manager: Anju Farfan

Reported: 07/12/06 13:09

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
Benzene	BPF1647	BPF1647-BS1	LCS	24.540	25.000	0.50	ug/L	98.2		70 - 130		
Toluene	BPF1647	BPF1647-BS1	LCS	25.500	25.000	0.50	ug/L	102		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BPF1647	BPF1647-BS1	LCS	9.1200	10.000		ug/L	91.2		76 - 114		
Toluene-d8 (Surrogate)	BPF1647	BPF1647-BS1	LCS	10.110	10.000		ug/L	101		88 - 110		
4-Bromofluorobenzene (Surrogate)	BPF1647	BPF1647-BS1	LCS	9.5800	10.000		ug/L	95.8		86 - 115		

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TRC Alton Geoscience	Project: 1871	
21 Technology Drive	Project Number: [none]	
Irvine CA, 92618-2302	Project Manager: Anju Farfan	**Reported:** 07/12/06 13:09

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Benzene	BPF1647	BPF1647-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	BPF1647	BPF1647-BLK1	ND	ug/L	0.50	0.094	
Methyl t-butyl ether	BPF1647	BPF1647-BLK1	ND	ug/L	0.50	0.12	
Toluene	BPF1647	BPF1647-BLK1	ND	ug/L	0.50	0.12	
Total Xylenes	BPF1647	BPF1647-BLK1	ND	ug/L	1.0	0.35	
Ethanol	BPF1647	BPF1647-BLK1	ND	ug/L	250	110	
Total Purgeable Petroleum Hydrocarbons	BPF1647	BPF1647-BLK1	ND	ug/L	50	16	
1,2-Dichloroethane-d4 (Surrogate)	BPF1647	BPF1647-BLK1	114	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BPF1647	BPF1647-BLK1	102	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BPF1647	BPF1647-BLK1	98.8	%	86 - 115 (LCL - UCL)		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

TRC Alton Geoscience	Project: 1871	
21 Technology Drive	Project Number: [none]	
Irvine CA, 92618-2302	Project Manager: Anju Farfan	**Reported:** 07/12/06 13:09

Notes and Definitions

S09	The surrogate recovery on the sample for this compound was not within the control limits.
S01	Sample result is not within the quantitation range of the method.
J	Estimated value
A53	Chromatogram not typical of gasoline.
A19	Surrogate is high due to matrix interference. Interferences verified through second extraction/analysis.
A01	PQL's and MDL's are raised due to sample dilution.
ND	Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 10 01/21/04 Page __ Of __

Submission #: 06-06327 | Project Code: | TB Batch #

SHIPPING INFORMATION

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

SHIPPING CONTAINER

Ice Chest ☑ None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☑ Comments:

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

COC Received ☑ YES ☐ NO

Ice Chest ID RW Emissivity 1.00
Temperature: 5.3 °C Container GLA
Thermometer ID: #48

Date/Time 6/26/06
Analyst Init OTO

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
100ml TOTAL ORGANIC CARBON										
QT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A3	A3	A3	A3	A3	A3	A3			
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT QA/QC										
QT AMBER										
4 OZ. JAR										
8 OZ. JAR										
FOIL SLEEVE										
VOC VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:_____

Sample Numbering Completed By: OTO Date/Time: 6/26/06 2350

[H:\DOCS\WP80\LAB_DOCS\FORMS\SAMREC2.WPD]

CHK BY | DISTRIBUTION | SUB-OUT

BC LABORATORIES, INC.
4100 Atlas Court □ Bakersfield, CA 93308
(661) 327-4911 □ FAX (661) 327-1918

CHAIN OF CUSTODY

06-06327

Analysis Requested

Circle one: Phillips 66 / Unocal	**Consultant Firm: TRC**
Address: 96 MacArthur	**21 Technology Drive Irvine, CA 92618-2302 Attn: Anju Farfan**
City: Oakland	**4-digit site#: 1871**
	Work Order# 1120TRC502
State: CA **Zip:**	**Project #: 41060001/FA20**
COP Manager: Shelby Lathrop	**Sampler Name:** Nate / Ben

Lab#	Sample Description	Field Point Name	Date & Time Sampled	MATRIX (GW) Groundwater (S) Soil (WW) Wastewater (SL) Sludge	BTEX/MTBE by 8021B, Gas by 8015	TPH GAS by 8015M	TPH DIESEL by 8015	8260 full list w/ MTBE & oxygenates	BTEX/MTBE BY 8260B	ETHANOL by 8260B	TPH-g by GC/MS	EDB/EDC by 8260B			Turnaround Time Requested
	-1	MW-1	06/23/06 0350	GW					X	X	X				STD
	-2	MW-10	0238	GW					X	X	X				STD
	-3	MW-11	0225	GW					X	X	X				STD
	-4	MW-6	0307	GW					X	X	X				STD
	-5	MW-7	0317	GW					X	X	X				STD
	-6	MW-8	0329	GW					X	X	X				STD
	-7	MW-9	0250	GW					X	X	X				STD

Comments:

Global ID: T0600101493

Relinquished by:	**Received by:** Refrigerator	**Date & Time:** 06/23/06 0425
Relinquished by (Signature):	**Received by:**	**Date & Time:** 6/26/06 1400
Relinquished by (Signature): Ross Duiker 6/26/06	**Received by:**	**Date & Time:** 6-26-06 1750

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

NO cal.

Teri Okafero 6/26/06 2230

STATEMENTS

Purge Water Disposal

Non-hazardous groundwate r 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 Rode o 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 ca re 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 th e observed conditions. If actual conditions differ from those described in this report, our office should be notified.

environ strategy consultants, inc.

30 Hughes, Suite 209
Irvine, California 92618
tel 949.581.3222
fax 949.581.3207

July 15, 2006

Project No. 328-A

Mr. Keith Woodburne, R.G.
Senior Project Geologist
TRC Solutions, Inc.
1590 Solano Way, Suite A
Concord, CA 94520

Second Quarter 2006
Ozone Injection System O&M Report
76 Service Station No. 1871
96 MacArthur Boulevard
Oakland, California

Dear Mr. Woodburne:

Environ Strategy Consultants, Inc. is pleased to submit this ozone injection system operation and maintenance (O&M) report for 76 Service Station No. 1871, located at 96 MacArthur Boulevard, Oakland, California. An ozone injection system was started on June 23, 2003 to remediate hydrocarbon-impacted groundwater.

Type of Remediation System:	Ozone Injection System
Operation Data During: Reporting Period: Apr. 1, 2006 – Jun. 30, 2006	Operated 83 days during the period Hours of Operation: 646
System Operation Data Since Startup: June 23, 2003	Total Hours of Operation: 9,282

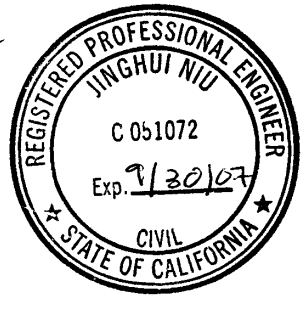
Note:
System down time occurred throughout the second quarter of 2006 due to tripped ozone sensor and tripped GFI.

Environ Strategy appreciates the opportunity to be of service. If you have any questions or require additional information regarding this report, please do not hesitate to call us at (949) 581-3222.

Respectfully submitted,

Sonny Nguyen
Project Assistant

Jinghui Niu, P.E.
Principal Engineer



Attachments: Figure - Site Plan

Table 1 - Ozone Injection - System Operation Data
Table 2 - Ozone Injection - Groundwater Monitoring Data

Graph 1 - MW-1 TPHg, Benzene, and MtBE Groundwater Concentrations
Graph 2 - MW-7 TPHg, Benzene, and MtBE Groundwater Concentrations

Appendix A – Field Notes

cc: Shelby Lathrop, ConocoPhillips Company (electronic copy)

Figure

EXPLANATION

● Groundwater monitoring well

Planter

SANTA CLARA AVENUE

MACARTHUR BLVD. OVERCROSSING (EASTBOUND ON-RAMP)

MACARTHUR BOULEVARD

Driveway

Quik Stop Market Building

Former Waste Oil Tank

MW-9

Sidewalk

Sidewalk

MW-8

Driveway

Planter

Former Property Boundary

Former Dispenser Island

SP-H

Former Station Building

Underground Storage Tanks

MW-7

SP-G

Sidewalk

Dispensers

Approximate Property Boundary

SP-A

Concrete Island

Driveway

SP-F

Canopy

Dispensers

MW-6

Former Underground Storage Tanks

SP-C

SP-BS

SP-BD

SP-E

MW-1

SP-DS

SP-DD

Conc. Bridge Columns (Typ.)

Sidewalk

Driveway

Former Dispenser Island

66 MacArthur Blvd. (formerly 96 MacArthur)

HARRISON STREET

Sidewalk

0 30 60

SCALE IN FEET

Source: Caltrans As-Built Plans and Right of Way Maps confirmed by field observations

DRAWN BY:	MD
CHECKED:	AD
APPROVED:	RB
DATE:	3/22/04 PR
JOB NO.:	77CP.60004.01
CAD FILE:	SITEPLAN

PREPARED BY:

SECOR

3017 KILGORE ROAD, SUITE 100
RANCHO CORDOVA, CA 95670

PREPARED FOR:

CONOCOPHILLIPS
76 STATION #1871

96 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

FIGURE 1

SITE PLAN

Table

Table 1
Ozone Injection - System Operation Data
76 Service Station No. 1871
96 MacArthur Blvd., Oakland, California

Date	Notes	OZONE SPARGE SYSTEM						OZ-1	OZ-2	OZ-3	OZ-4	OZ-5	OZ-6	OZ-7	OZ-8	OZ-9	OZ-10
		System Status (On/Off)		Hourmeter	Period Online	Cumulative	Ozone Injected	Pressure	Pressure	Pressure	Pressure	Pressure	Pressure	Pressure	Pressure	Pressure	Pressure
		Arrival	Departure	Reading	Factor	Online Factor	(lbs)	(psi)	(psi)	(psi)	(psi)	(psi)	(psi)	(psi)	(psi)	(psi)	(psi)
6/23/03		On	On	8807.26	--	0.95	--	20	18	19	20	21	23	20	26	14	26
7/16/03		Off	On	8850.46	0.09	0.91	0.39	27	18	31	40	28	29	31	38	24	25
8/30/03		On	On	9180.61	0.35	0.86	2.97	17	15	17	19	19	19	20	26	19	26
9/18/03		On	On	9327.43	0.37	0.84	1.32	13.5	14.7	17.0	16.3	16.0	19.7	16.8	19.8	15.7	20
10/16/03		On	On	--	--	0.84	--	27.0	19.5	40.8	39.0	40.8	38.5	34.2	46.4	24.2	39.8
11/17/03		On	On	9696.55	0.29	0.81	--	11.0	20.0	17.0	18.0	17.5	17.0	16.0	21.0	51.0	22.0
12/5/03		On	On	9804.98	0.29	0.80	0.98	33.0	21.0	44.0	40.0	43.0	39.0	33.5	44.0	26.0	33.0
1/16/04		On	On	10471.28	0.76	0.79	6.00	12.5	11.0	18.5	16.5	17.5	17.0	16.0	20.0	16.0	20.0
2/3/04		On	On	10727.69	0.68	0.79	2.31	12.3	11.5	18.2	16.5	18.2	17.3	16.0	19.0	16.0	18.2
3/24/04		On	On	11424.95	0.66	0.78	6.28	31.0	18.3	37.5	26.0	34.0	33.2	32.3	41.5	23.0	31.0
4/14/04		On	On	11676.10	0.57	0.77	2.26	32.0	19.0	38.7	26.0	37.7	37.1	32.8	41.8	23.8	29.5
4/15/04	a	On	On	11685.29	0.44	0.77	0.08	--	--	--	--	--	--	--	--	--	--
4/16/04	a	On	On	11693.80	0.41	0.77	0.08	--	--	--	--	--	--	--	--	--	--
4/19/04	a	On	On	11742.90	0.78	0.77	0.44	--	--	--	--	--	--	--	--	--	--
4/23/04	a	On	On	11773.10	0.36	0.77	0.27	--	--	--	--	--	--	--	--	--	--
5/4/04		Off	On	11837.70	0.28	0.76	0.58	32.2	20.5	39.4	36.2	38.1	32.0	33.5	60.0	25.8	33.1
5/11/04		On	On	11950.51	0.77	0.76	1.02	32.5	20.0	38.5	29.8	38.8	39.5	34.8	60.0	23.5	35.9
6/14/04	b,c	On	On	12464.64	0.72	0.76	4.63	20.0	21.0	38.8	27.2	37.0	38.2	35.2	60.0	24.0	32.1
7/29/04	d	On	On	844.62	0.99	0.77	7.60	22	15	--	26	35	34	35	--	25	33
8/12/04	e	On	On	1075.97	0.98	0.78	2.08	--	--	--	--	--	--	--	--	--	--
9/10/04		On	On	1490.23	0.85	0.78	3.73	32	32	33	33	21	24	30	20	26	30
10/5/04		On	On	1868.83	0.90	0.78	3.41	31	32	33	31	22	23	31	21	26	28
11/5/04		On	On	2360.90	0.93	0.79	4.43	22	26	12	18	12	22	30	32	26	22
12/2/04	f	Off	Off	2802.02	0.97	0.79	3.97	--	--	--	--	--	--	--	--	--	--
1/13/05		Off	On	2802.07	0.00	0.76	0.00	23	27	15	20	15	23	31	34	28	25
2/25/05	g	Off	Off	2802.42	0.00	0.73	0.00	--	--	--	--	--	--	--	--	--	--
3/8/05	h,i	Off	Off	2802.42	0.00	0.72	0.00	--	--	--	--	--	--	--	--	--	--
4/5/05	i	Off	Off	2802.42	0.00	0.70	0.00	--	--	--	--	--	--	--	--	--	--
5/4/05	j	Off	On	2802.49	0.00	0.69	0.00	14	11	16	12	20	27	25	29	25	31
6/2/05	k	On	On	3407.97	1.00	0.69	5.45	35	25	Off	40	41	36	35	34	27	25
7/7/05	k,l,m	On	On	4067.42	1.29	0.71	5.94	31	23	Off	30	Off	26	32	28	25	Off
8/26/05	n	On	On	4665.98	0.81	0.72	5.39	13	13	Off	14	Off	13	12	12	13	Off
9/23/05	o	On	On	4947.97	0.69	0.71	2.54	16	15	Off	Off	Off	16	16	16	16	Off
10/23/05	p	On	On	5264.28	0.72	0.71	2.85	16	16	Off	Off	Off	16	16	16	16	Off
11/11/05	q,r	On	Off	0.90	--	0.71	--	--	--	--	--	--	--	--	--	--	--
11/15/05	s	Off	On	0.90	0.00	0.71	0.00	35	16	16	22	23	18	23	23	23	24
12/6/05	t	Off	On	2.49	0.01	0.70	0.01	22	20	19	24	24	22	26	23	24	25
1/4/06	v	Off	On	6.00	0.01	0.69	0.03	20	20	18	17	23	20	25	19	22	20
1/18/06	v	Off	On	203.00	0.96	0.69	1.77	22	19	19	20	19	18	21	22	22	23
2/1/06	v	Off	On	316.00	0.55	0.69	1.02	20	20	18	22	22	18	23	23	22	25
2/15/06	v	Off	On	344.00	0.14	0.68	0.25	20	19	18	17	19	20	23	19	22	20
3/1/06	v	Off	On	417.00	0.35	0.68	0.66	21	20	19	19	21	17	24	23	21	21
3/16/06	u	Off	On	501.00	0.38	0.68	0.76	20	19	18	17	19	20	23	20	22	20
3/29/06	u	Off	On	560.00	0.31	0.67	0.53	20	20	19	19	20	21	25	21	22	21
4/16/06	u	Off	On	624.00	0.24	0.67	0.58	20	19	18	17	19	20	23	20	23	21
4/25/06	u	Off	On	718.00	0.71	0.67	0.85	20	20	19	18	20	22	24	21	22	20
5/9/06	u	Off	On	776.00	0.28	0.66	0.52	20	19	19	17	19	21	22	20	22	20
5/23/06	u	Off	On	834.00	0.28	0.66	0.52	19	20	18	18	20	20	23	20	23	21
6/6/06	u	Off	On	1042.00	1.01	0.66	1.87	20	19	18	17	19	20	23	20	22	20
6/20/06	w	Off	On	1206.00	0.80	0.67	1.48	19	20	18	18	19	20	25	21	23	21
							Sparge time per cycle (min)	7	7	7	7	7	7	7	7	7	7

Table 1
Ozone Injection - System Operation Data
76 Service Station No. 1871
96 MacArthur Blvd., Oakland, California

Reporting Period: Second Quarter 2006 (4/01/06 to 6/30/06)
Total Hours Operational: 9,282
Total Pounds Ozone Injected: 84
Period Hours Operational: 646
Period Percent Operational: 32%
Period Pounds Ozone Injected: 5.81

Definitions:

psi	Pounds per square inch
--	Data not available
NA	Not applicable
lbs	Pounds

Notes:

System cycles through program 18 times per day, for 53% utilization

a	Troubleshooting time counter
b	Hourmeter replaced
c	Solenoid 8 has high pressure, taken offline
d	Solenoid 3 leaking, taken off line
e	Pressures not properly recorded
f	Ozone generator hose ruptured on effluent side to solenoid manifold. No Readings.
g	System down due to bad GFI
h	New GFI was installed.
i	Fan in compressor broken and tubing from compressor to manifold needs to be replaced. System left off until repairs made.
j	Installed new motor fan and manifold fittings, restarted system.
k	OZ-3 turned off due to high pressure of over 60 psi.
l	OZ-5 too brittle. Left off until lines are replaced.
m	OZ-10 turned off due to leak in secondary containment
n	Hourmeter reading not correct, will check next visit
o	Hourmeter not working properly.
p	Pressure gauge stuck at 16 psi.
q	New hourmeter, panel fan, and GFCI installed
r	Fuse blown in ozone generator, system left off
s	Replaced tubing to all wells and replaced ozone generator circuit board and pressure gauge
t	System down due to tripped GFI; foam on door may have been pressing reset button. Foam removed.
u	Ozone sensor tripped.
v	Meter reset.
w	System down time due to tripped GFI.

Table 2
Ozone Injection - Groundwater Monitoring Data
76 Service Station No. 1871
96 MacArthur Blvd., Oakland, California

		Monitoring Well: MW-1								Monitoring Well: MW-7							
Date	Notes	ORP (mV)	DO (mg/l)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (total) (µg/L)	MtBE (µg/L)	ORP (mV)	DO (mg/l)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (total) (µg/L)	MtBE (µg/L)
4/16/2003	a	NM	NM	510	57	0.62	29	61	160	NM	NM	<25,000	<250	<250	<250	<500	37,000
6/23/2003	a	NM	NM	75	<0.50	<0.50	<0.50	5.3	12	NM	NM	20,000	260	<0.50	<0.50	<1.0	20,000
8/29/2003	a	NM	NM	11,000	64	<10	330	1,400	440	NM	NM	<10,000	<100	<100	<100	<200	24,000
9/18/2003		NM	NM	390	2.3	<0.50	3.6	31	30	NM	NM	--	--	--	--	--	--
10/16/2003		NM	NM	2,100	6.0	<0.50	24.0	120	110	NM	NM	--	--	--	--	--	--
11/17/2003		NM	NM	130	0.51	<0.50	2.1	7.9	43	NM	NM	16,000	<130	<130	<130	<250	17,000
12/5/2003		NM	NM	<50	<0.50	<0.50	<0.50	<1.0	36	NM	NM	12,000	<100	<100	<100	<200	19,000
1/16/2004	b	NM	NM	<50	<0.50	<0.50	<0.50	<1.0	<2.0	NM	NM	17,000	160	270	<130	<250	19,000
2/3/2004		238	NM	<50	<0.50	<0.50	<0.50	<1.0	<2.0	72	NM	10,000	<25	<25	<25	<50	15,000
3/24/2004	b	169	NM	**55**	<0.50	<0.50	**0.80**	**2.9**	**7.8**	56	NM	**13,000**	<100	<100	<100	<200	**15,000**
4/14/2004	b	0.4	NM	**23,000**	**310**	**10**	**590**	**2400**	**1700**	42	NM	**9,000**	<50	<50	<50	<100	**11,000**
5/11/2004		c	NM	**7,800**	**160**	<10	**170**	**700**	**720**	-3	NM	**8,300**	<50	<50	<50	<100	**6,500**
6/14/2004		20	5.25	**110**	<0.50	<0.50	**1.0**	**6.4**	**3.4**	35	1.45	<5,000	<50	<50	<50	<100	**3,100**
7/26/2004		NM	NM	<50	<0.50	<0.50	<0.50	<1.0	**3.2**	NM	NM	<5,000	<50	<50	<50	<100	**2,700**
8/12/2004		171	0.07	<50	<0.50	<0.50	<0.50	<1.0	**0.80**	117	0.06	**2,100**	<10	<10	<10	<20	**4,400**
9/10/2004		180	0.08	<50	<0.50	<0.50	<0.50	<1.0	**5.7**	122	0.07	**3,100**	<13	<13	<13	<25	**7.1**
10/5/2004		175	0.09	<50	<0.50	<0.50	<0.50	<1.0	<0.50	117	0.08	<50	<0.50	<0.50	<0.50	<1.0	**1.1**
11/5/2004	d	117	0.05	<50	<0.50	<0.50	<0.50	<1.0	**0.89**	210	0.06	**50**	<0.50	<0.50	<0.50	<1.0	**51**
12/2/2004		109	0.03	**83**	**0.83**	<0.50	<0.50	**1.2**	**44**	214	0.03	**180**	**1.6**	<0.50	**66**	**4.5**	**460**
1/13/2005		105	0.04	**1,100**	**26**	**1.2**	**2.10**	**70**	**630**	201	0.05	**1,000**	**25**	**1**	**1.9**	**68**	**2,500**
2/25/2005	c,f	--	2.67	**24,000**	**350**	**10**	**820**	**2,200**	**1,300**	21	2.05	**680**	<2.0	<2.0	**2.3**	**58**	--
3/8/2005	g	-35	4.43	**23,000**	**410**	<10	**1,100**	**2,300**	**1,300**	NR	NR	--	--	--	--	--	--
4/5/2005		-30	4.56	**34,000**	**300**	<10	**910**	**2,000**	**1,100**	135	6.53	<5,000	<.50	<.50	<.50	<1.00	**19,000**
5/4/2005		-59	2.40	**26,000**	**220**	**7.4**	**790**	**2,100**	**860**	-24	1.13	<2,000	<0.50	<0.50	<0.50	<1.0	**7,100**
6/2/2005		-20	7.34	<50	<0.50	<0.50	<0.50	<1.0	**3.5**	-12	1.01	**3500**	<0.50	<0.50	<0.50	<1.0	**4,000**
7/7/2005	i,j	142	7.42	<50	<0.50	<0.50	<0.50	<1.0	**0.61**	154	1.40	**5000**	<0.50	<0.50	<0.50	<1.0	**8,900**
9/23/2005		16	7.77	<50	<0.50	<0.50	<0.50	<1.0	<0.50	56	1.39	<500	<5.0	<5.0	<5.0	<10	**1,900**
10/23/2005		154	7.13	<50	<0.50	<0.50	<0.50	<1.0	**0.56**	191	1.59	<250	<2.5	<2.5	<2.5	<5	**680**
11/1/2005	k	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Definitions:

TPHg = Total petroleum hydrocarbons as gasoline
MtBE = Methyl tert-butyl ether
µg/L = Micrograms per liter

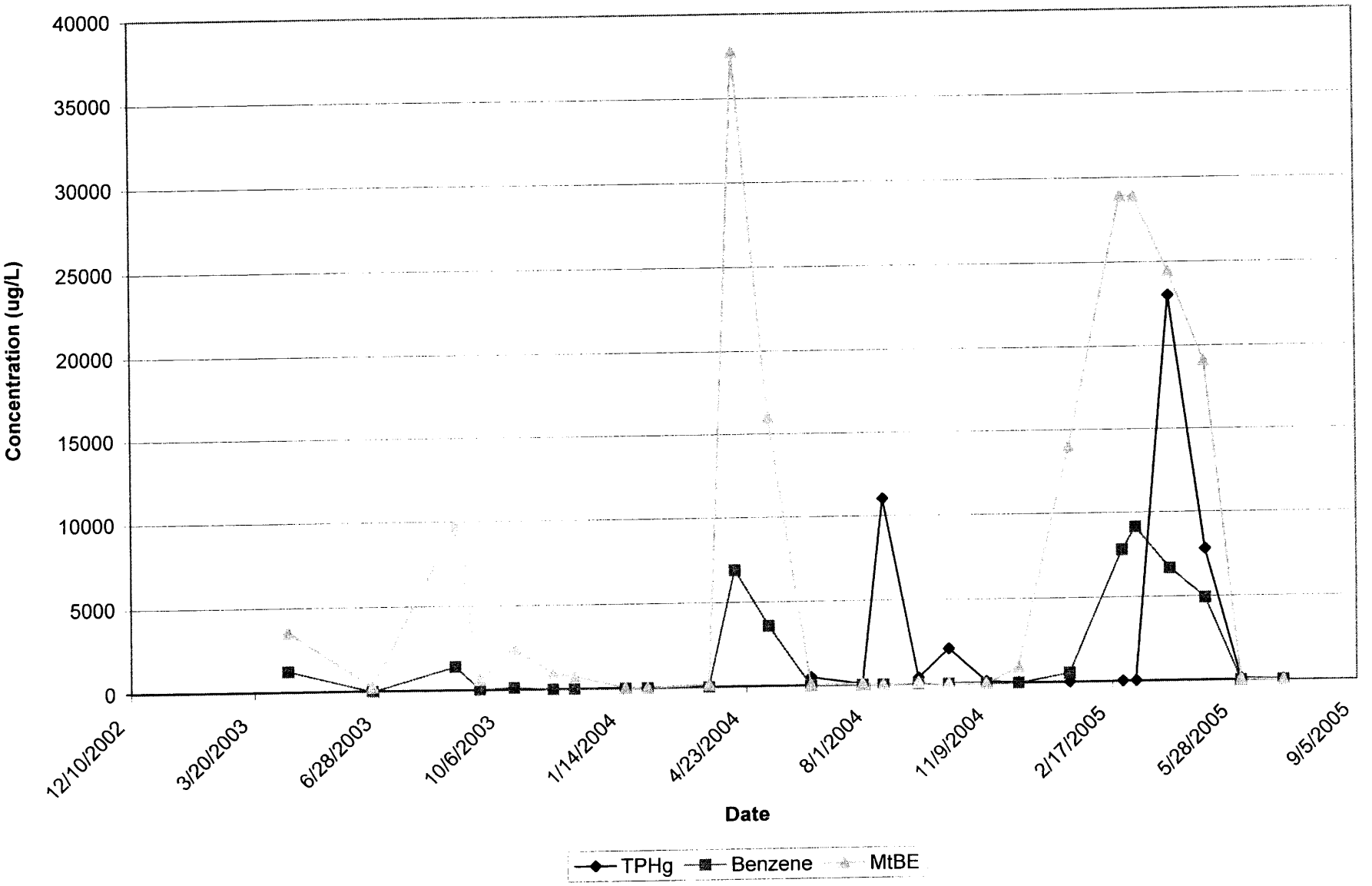
ORP = Oxidation Reduction Potential
DO = Dissolved Oxygen
mV = Millivolts
mg/l = Milligrams per liter

Notes:

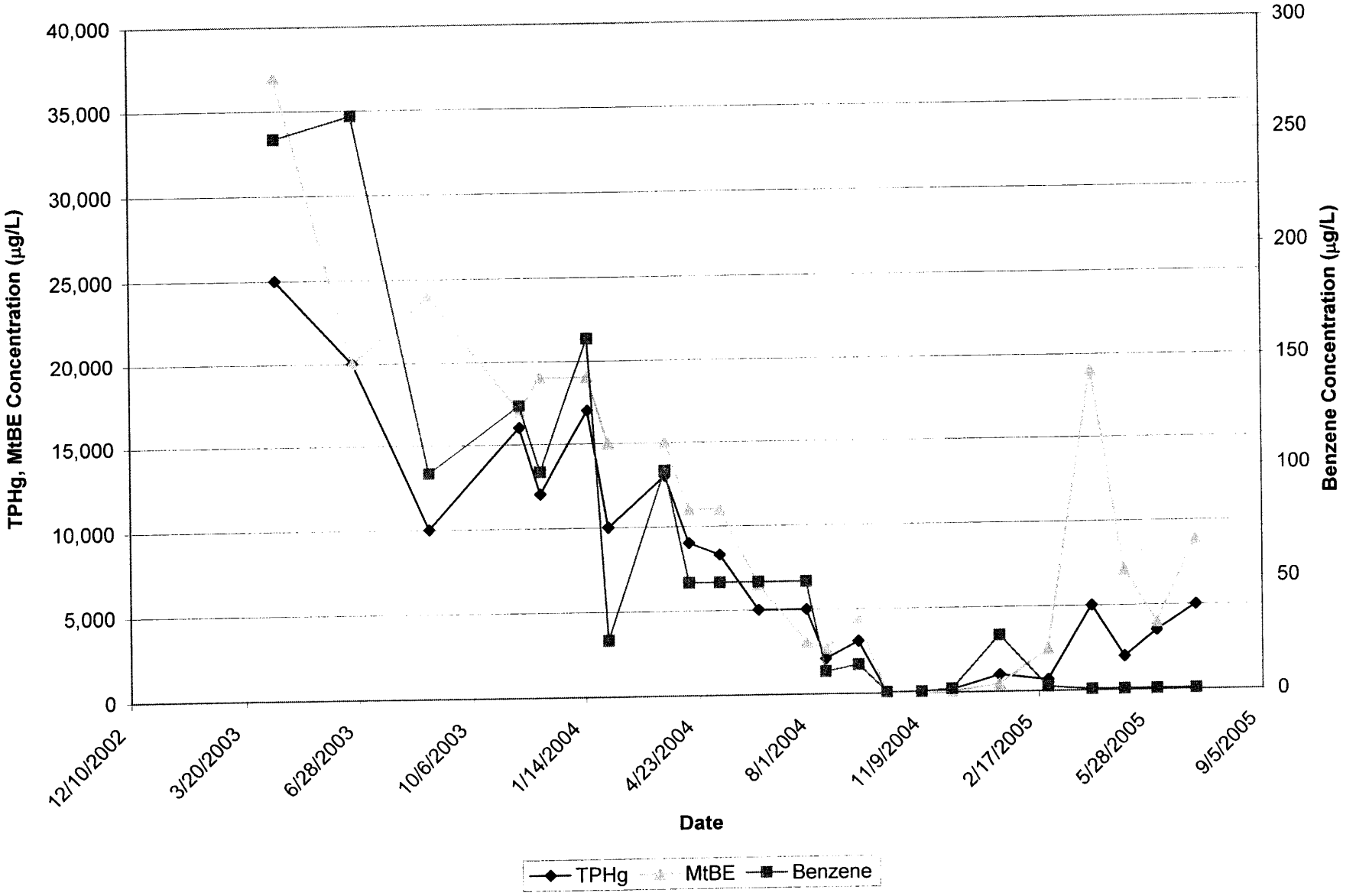
--	Data not available
NM	Not Measured
a	Sampled by Gettler-Ryan, Inc.
b	Hydrocarbon in gasoline range does not match laboratory gasoline standard.
c	ORP reading under the range
d	Quantity of unknown hydrocarbon(s) in sample based on gasoline.
e	Data not available at time of reporting
f	MW-7 Estimated value of MtBE; concentration exceeded the calibration of analysis
g	Car parked on MW-7.
h	Data not available at time of reporting
i	Siloxane peaks were found in the sample which are not believed to be gasoline related. If they were to be quantified as gasoline, the concentration would be 58 ug/L. (MW-1).
j	The concentration reported reflect(s) individual or discrete unidentified peaks not matching a typical fuel pattern. (MW-1)
k	Sampling discontinued at the request of ConocoPhillips

Graphs

Graph 1
MW-1 TPHg, Benzene, and MtBE Groundwater Concentrations
76 Service Station No. 1871
96 MacArthur Blvd., Oakland, California



Graph 2
MW-7 TPHg, Benzene, and MtBE Groundwater Concentrations
76 Service Station No. 1871
96 MacArthur Blvd., Oakland, California



Appendix A
Field Notes

ConocoPhillips Ozone Injection System Data Sheet

Station No. T1871

City: Oakland

Date	Notes	Status ON/OFF	Cycles/ Day	Hour Meter	Well I.D. 02-1 Pressure (psi)	Temp. (°F)	Run Time (min)	Flowrate (acfm)	Well I.D. 02-2 Pressure (psi)	Temp. (°F)	Run Time (min)	Flowrate (acfm)	Well I.D. 02-3 Pressure (psi)	Temp. (°F)	Run Time (min)	Flowrate (acfm)
16 Mar 06	A	off/on	18	501	20		7		19		7		18		7	
29 Mar 06	A	off/on	18	560	20		7		20		7		19		7	
16 Apr 06	A	off/on	18	624	20		7		19		7		18		7	
25 Apr 06	A	off/on	18	710	20		7		20		7		19		7	
9 May 06	O3 sensor	off/on	18	776	20		7		19		7		19		7	
23 May 06	A	off/on	18	834	19		7		20		7		18		7	

Date	Well I.D. 02-4 Pressure (psi)	Temp. (°F)	Run Time (min)	Flowrate (acfm)	Well I.D. 02-5 Pressure (psi)	Temp. (°F)	Run Time (min)	Flowrate (acfm)	Well I.D. 02-6 Pressure (psi)	Temp. (°F)	Run Time (min)	Flowrate (acfm)	Well I.D. 02-7 Pressure (psi)	Temp. (°F)	Run Time (min)	Flowrate (acfm)
16 Mar 06	17		7		19		7		20		7		23		7	
29 Mar 06	19		7		20		7		21		7		25		7	
16 Apr 06	17		7		19		7		20		7		23		7	
25 Apr 06	18		7		20		7		22		7		24		7	
9 May 06	17		7		19		7		21		7		22		7	
23 May 06	18		7		20		7		20		7		23		7	

Date	Well I.D. 02-8 Pressure (psi)	Temp. (°F)	Run Time (min)	Flowrate (acfm)	Well I.D. 02-9 Pressure (psi)	Temp. (°F)	Run Time (min)	Flowrate (acfm)	Well I.D. 02-10 Pressure (psi)	Temp. (°F)	Run Time (min)	Flowrate (acfm)	Well I.D. Pressure (psi)	Temp. (°F)	Run Time (min)	Flowrate (acfm)
16 Mar 06	20		7		22		7		20		7					
29 Mar 06	21		7		22		7		21		7					
16 Apr 06	20		7		23		7		21		7					
25 Apr 06	21		7		22		7		20		7					
9 May 06	20		7		22		7		20		7					
23 May 06	20		7		20		7		21		7					

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Date	Well I.D. Pressure (psi)	Temp. (°F)	Run Time (min)	Flowrate (acfm)	Well I.D. Pressure (psi)	Temp. (°F)	Run Time (min)	Flowrate (acfm)	Well I.D. Pressure (psi)	Temp. (°F)	Run Time (min)	Flowrate (acfm)	Well I.D. Pressure (psi)	Temp. (°F)	Run Time (min)	Flowrate (acfm)

1 . 1

ConocoPhillips Ozone Injection System Data Sheet

Station No. T-1871 City: OAKLAND

Date	Notes	Status ON/OFF	Cycles/ Day	Hour Meter	Well I.D. 02-1 Pressure (psi)	Temp. (°F)	Run Time (min)	Flowrate (acfm)	Well I.D. 02-2 Pressure (psi)	Temp. (°F)	Run Time (min)	Flowrate (acfm)	Well I.D. 02-3 Pressure (psi)	Temp. (°F)	Run Time (min)	Flowrate (acfm)
6 Jun 06	O_3 Sensor	off/on	18	1042	20		7		19		7		18		7	
20 June 06	GFI	off/on	18	1206	19		7		20		7		18		7	

Date	Well I.D. 02-4 Pressure (psi)	Temp. (°F)	Run Time (min)	Flowrate (acfm)	Well I.D. 02-5 Pressure (psi)	Temp. (°F)	Run Time (min)	Flowrate (acfm)	Well I.D. 02-6 Pressure (psi)	Temp. (°F)	Run Time (min)	Flowrate (acfm)	Well I.D. 02-7 Pressure (psi)	Temp. (°F)	Run Time (min)	Flowrate (acfm)
6 Jun 06	17		7		19		7		20		7		20		7	
20 June 06	18		7		19		7		20		7		25		7	

Date	Well I.D. 02-8 Pressure (psi)	Temp. (°F)	Run Time (min)	Flowrate (acfm)	Well I.D. 02-9 Pressure (psi)	Temp. (°F)	Run Time (min)	Flowrate (acfm)	Well I.D. 02-10 Pressure (psi)	Temp. (°F)	Run Time (min)	Flowrate (acfm)	Well I.D. Pressure (psi)	Temp. (°F)	Run Time (min)	Flowrate (acfm)
6 Jun 06	20		7		22		7		20		7					
20 June 06	21		7		23		7		21		7					

Date	Well I.D. Pressure (psi)	Temp. (°F)	Run Time (min)	Flowrate (acfm)	Well I.D. Pressure (psi)	Temp. (°F)	Run Time (min)	Flowrate (acfm)	Well I.D. Pressure (psi)	Temp. (°F)	Run Time (min)	Flowrate (acfm)	Well I.D. Pressure (psi)	Temp. (°F)	Run Time (min)	Flowrate (acfm)

ENTEK

Ozone Injection System Maintenance and Inspection Log

Station No. T1871

City: oakland

Date	Notes - a: Breaker Thrown b: Hour Meter Malfunction c: New Hour Meter d: Rainbird Meter Malfunction	Status Upon Arrival On/Off	Status Upon Departure On/Off	Check Hose Fittings Valves	Measure Blower Running Amperage	Check Electrical Fittings and Controller Operation	Adjust Controller Program	Particle Filter Inspect/ Replace	Check Flow Pressure Assembly	Check Well Head Connect	Test all Safety Override Systems
16 Apr 06	A	off	on	ok	—	ok	—	ok	ok	ok	ok
9 May 06	A	off	on	ok	—	ok	—	ok	ok	ok	ok
20 Jun 06	GFI tripped	off	on	ok	—	ok	—	ok	ok	ok	ok

Comments:

ENTERED