



76 Broadway
Sacramento, CA 95818
phone 916.558.7676
fax 916.558.7639

RO455

July 26, 2005

Alameda County
AUG 01 2005
Environmental Health

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

Re: **Document Transmittal**
Fuel Leak Case
76 Station #1871
96 MacArthur Blvd.
Oakland, CA

Dear Mr. Hwang:

Please find attached TRC's *Quarterly Status Report, dated 7/25/05*, TRC's *Quarterly Monitoring Report, dated 7/25/05*, and Secor's *Quarterly Remedial Performance Summary, dated 7/15/05* for the above referenced site. I declare, under penalty of perjury, that to the best of my knowledge the information and/or recommendations contained in the attached proposal or reports are true and correct.

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

Sincerely,

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

Attachment

cc: Roger Batra, TRC



Customer-Focused Solutions

July 25, 2005

TRC Project No. 42016103

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

**RE: Quarterly Status Report - Second Quarter 2005
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 2005 Quarterly Status Report for the subject site, shown on attached Figure 3 through 5.

PREVIOUS ASSESSMENTS

The site is located on the north corner of the intersection of MacArthur Boulevard and Harrison Street in Oakland, California. The site is currently an operating service station.

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 program 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 use in a Risk Based Corrective Action (RBCA) analysis for the site.

February 1999: GR performed a RBCA evaluation. The RBCA evaluation determined 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 .25 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.

SENSITIVE RECEPTORS

According to the RBCA evaluation, no groundwater receptors were located within a ¼mile radius of the site. No other sensitive receptor survey has been identified.

MONITORING AND SAMPLING

One onsite and six offsite wells are currently monitored quarterly. All wells were sampled this quarter. The groundwater gradient flow is 0.03 foot/foot west and 0.03 foot/foot south.

CHARACTERIZATION STATUS

Total purgeable petroleum hydrocarbons (TPPH) were detected in five of seven wells, with a maximum concentration of 24,000 micrograms per liter (µg/l) in onsite well MW-1.

Benzene was detected in two of seven wells, with a maximum concentration of 140 µg/l in onsite well MW-1.

Methyl tertiary butyl ether (MTBE) was detected in five of seven wells, with a maximum concentration of 12,000 µg/l in offsite well MW-7.

Hydrocarbon impacts are not fully delineated offsite. Perimeter downgradient monitoring well MW-8 contained 980 µg/l MTBE and was non-detect for benzene. Perimeter downgradient monitoring well MW-9 contained 2,000 µg/l MTBE and was non-detect for benzene. Perimeter downgradient monitoring well MW-10 and MW-11 were non-detect for MTBE, TPPH, and benzene.

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 137 pounds of ozone have been injected.

RECENT CORRESPONDENCE

No correspondence this quarter.

CURRENT QUARTER ACTIVITIES

June 23, 2005: 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-June 2005: SECOR performed operations and maintenance activities on the ozone sparging system throughout the quarter. During the quarter the system operated for 606 hours. The system was restarted on May 4, 2005 after replacing the compressor fan blade and repairing the hose from the compressor to the manifold. On June 2, 2005 lines 3,4, and 7 were replaced between the panel and first check valve and line 3 was turned off due to a leak detected in the secondary containment. Approximately 5.45 pounds of ozone was injected during the second quarter. No waste was generated at the site.

NEXT QUARTER ACTIVITIES

Continue quarterly monitoring and sampling to assess plume stability and concentration trends.

Continue operating the ozone sparging system to reduce hydrocarbon mass in the subsurface. Continue sampling of monitoring wells MW-1 and MW-7 to aid in evaluation of the ozone sparging system.

QSR – Second Quarter 2005
76 Service Station #1871, Oakland, California
July 25, 2005
Page 4

If you have any questions regarding this report, please call me at (925) 688-2466.

Sincerely,

TRC



Roger Batra
Senior Project Manager

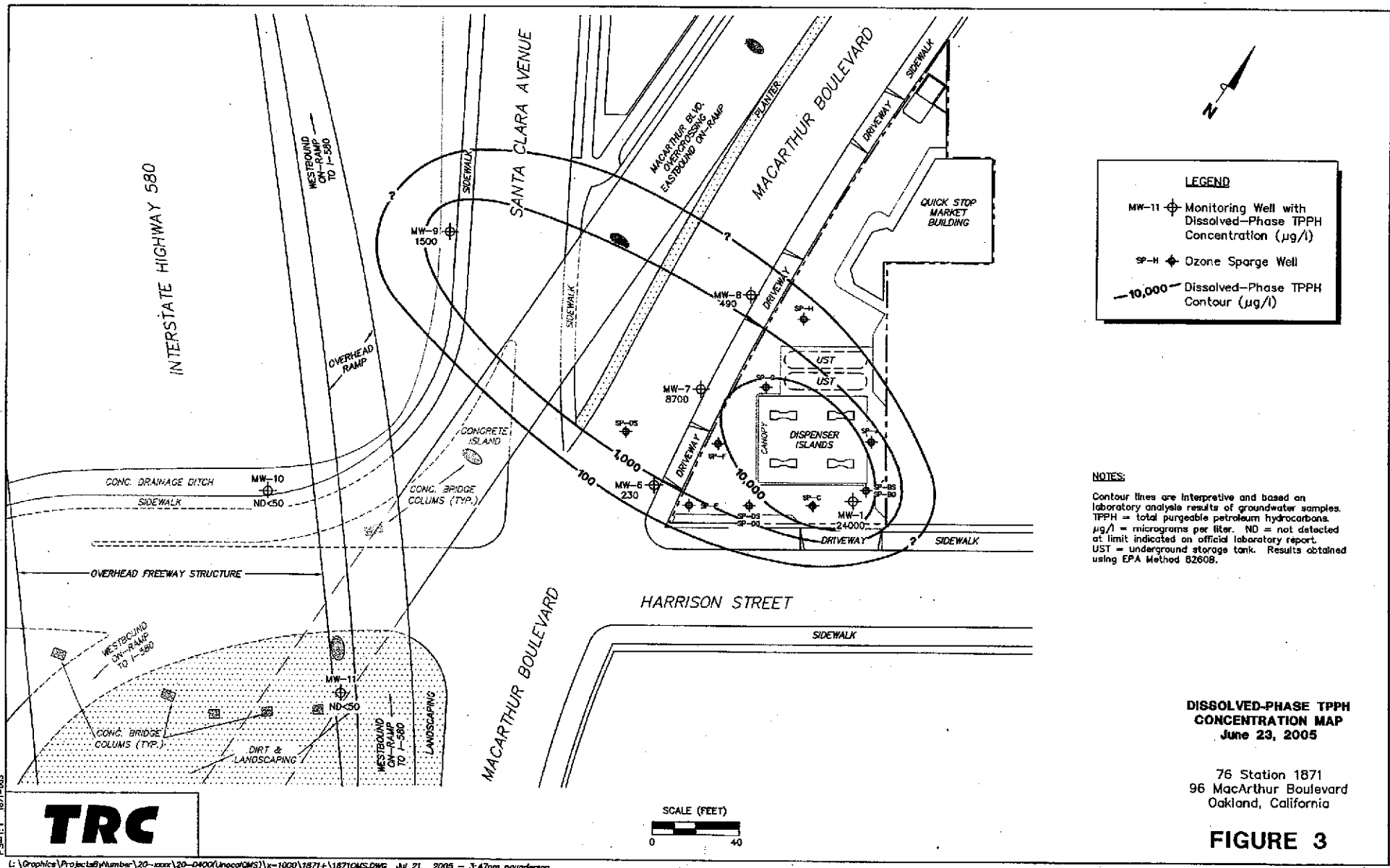
Attachments:

Figure 3 – Dissolved-Phase TPPH Concentration Map, June 23, 2005, from Second Quarter 2005 Quarterly Monitoring Report, April through June 2005, dated July 20, 2005 by TRC.

Figure 4 – Dissolved-Phase Benzene Concentration Map, June 23, 2005, from Second Quarter 2005 Quarterly Monitoring Report, April through June 2005, dated July 20, 2005 by TRC.

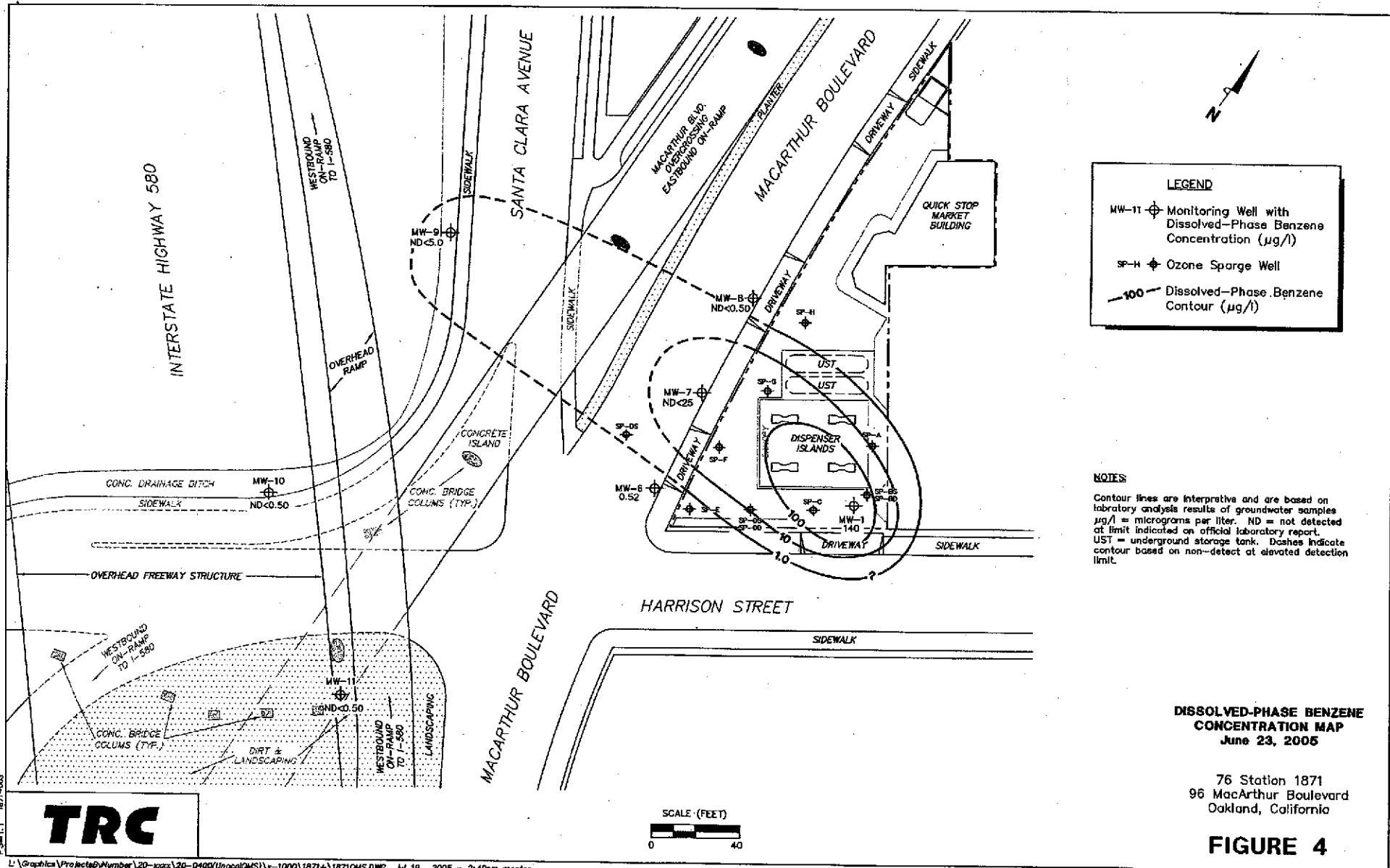
Figure 5 – Dissolved-Phase MTBE Concentration Map, June 23, 2005, from Second Quarter 2005 Quarterly Monitoring Report, April through June 2005, dated July 20, 2005 by TRC.

cc: Thomas Kosel, ConocoPhillips (hard copy and electronic upload)



PSm1.1. 1871-003

TRC



LEGEND

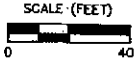
- MW-11 Monitoring Well with Dissolved-Phase Benzene Concentration ($\mu\text{g/l}$)
- SP-H Ozone Sparge Well
- 100 Dissolved-Phase Benzene Contour ($\mu\text{g/l}$)

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

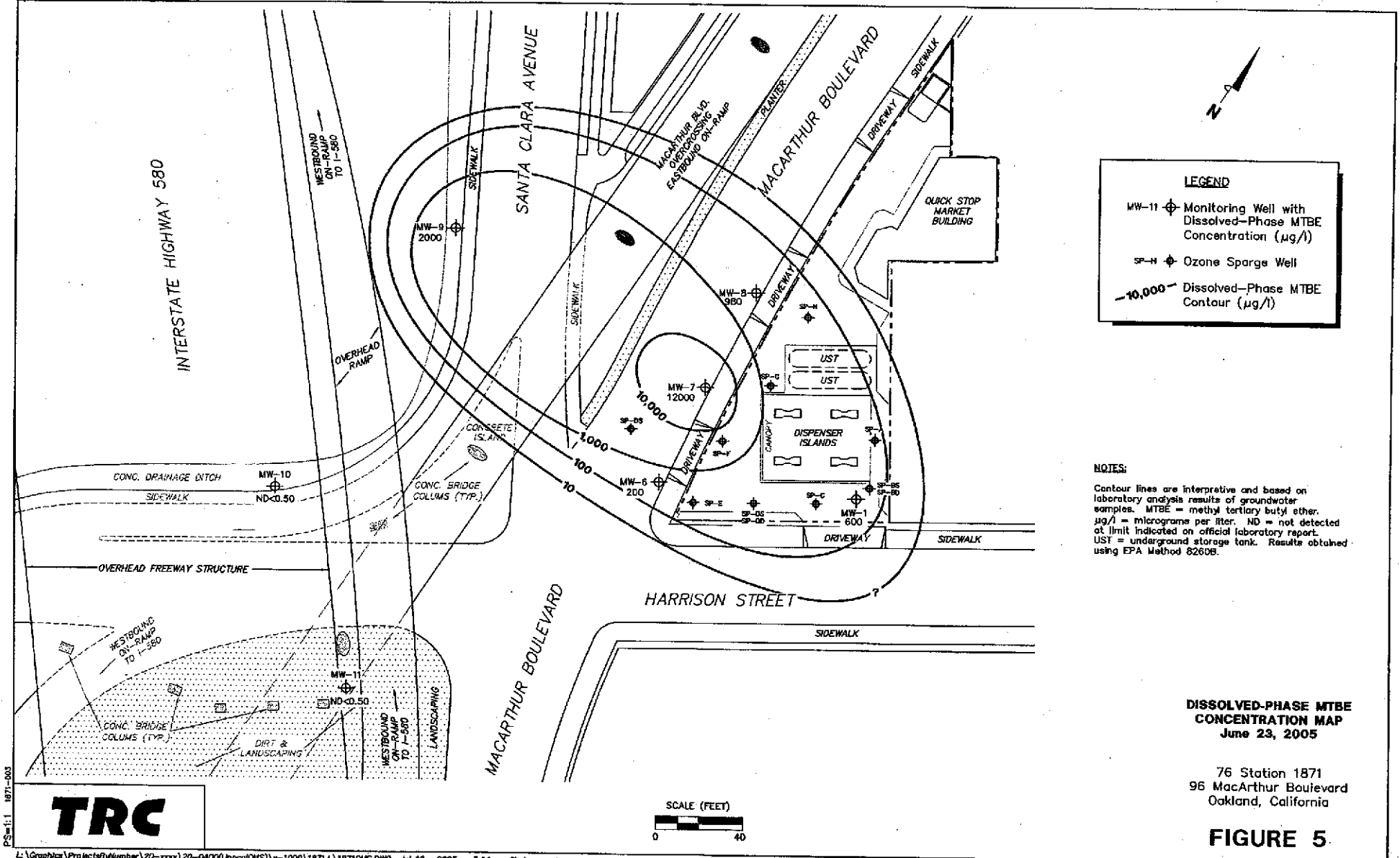
DISSOLVED-PHASE BENZENE CONCENTRATION MAP
 June 23, 2005

76 Station 1871
 96 MacArthur Boulevard
 Oakland, California

FIGURE 4



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LEGEND

- MW-11 Monitoring Well with Dissolved-Phase MTBE Concentration (µg/l)
- SP-A Ozone Sparge Well
- 10,000 Dissolved-Phase MTBE Contour (µg/l)

NOTES:

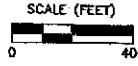
Contour lines are interpretive and based on laboratory analysis results of groundwater samples. MTBE = methyl tertiary butyl ether. µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report. UST = underground storage tank. Results obtained using EPA Method 8260B.

**DISSOLVED-PHASE MTBE
CONCENTRATION MAP**
June 23, 2005

76 Station 1871
96 MacArthur Boulevard
Oakland, California

FIGURE 5

TRC



PS=1:1 1871-003



Customer-Focused Solutions

July 20, 2005

ConocoPhillips Company
76 Broadway
Sacramento, California 95818

ATTN: MR. THOMAS H. KOSEL

SITE: 76 STATION 1871
96 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

RE: QUARTERLY MONITORING REPORT
APRIL THROUGH JUNE 2005

Dear Mr. Kosel:

Please find enclosed our Quarterly Monitoring Report for 76 Station, 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. Roger Batra, TRC (3 copies)

Enclosures
20-0400/1871R07.QMS

21 Technology Drive • Irvine, California 92618
Telephone 949-727-9336 • Fax 949-727-7399





Customer-Focused Solutions

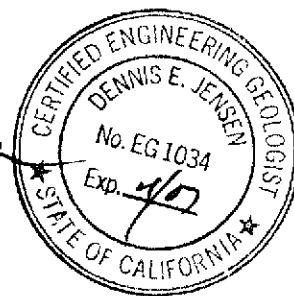

**QUARTERLY MONITORING REPORT
APRIL THROUGH JUNE 2005**

76 STATION 1871
96 MacArthur Boulevard
Oakland, California

Prepared For:

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

By:



Senior Project Geologist, Irvine Operations
July 19, 2005

LIST OF ATTACHMENTS

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

Summary of Gauging and Sampling Activities
April 2005 through June 2005
76 Station 1871
96 MacArthur
Oakland, CA

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

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

Date(s) of Gauging/Sampling Event: **06/23/05**

Sample Points

Groundwater wells: **1** onsite, **6** offsite Wells gauged: **7** Wells sampled: **7**
Purging method: **Diaphragm pump/bailer**
Purge water disposal: **Onyx/Rodeo Unit 100**
Other Sample Points: **0** Type: **n/a**

Liquid Phase Hydrocarbons (LPH)

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

Hydrogeologic Parameters

Depth to groundwater (below TOC): Minimum: **6.46 feet** Maximum: **14.4 feet**
Average groundwater elevation (relative to available local datum): **70.22 feet**
Average change in groundwater elevation since previous event: **0.67 feet**
Interpreted groundwater gradient and flow direction:
 Current event: ***see notes**
 Previous event: **0.02 ft/ft, southwest (01/24/05)**

Selected Laboratory Results

Wells with detected **Benzene**: **2** Wells above MCL (1.0 µg/l): **1**
 Maximum reported benzene concentration: **140 µg/l (MW-1)**

Wells with **TPPH 8260B** **5** Maximum: **24,000 µg/l (MW-1)**
Wells with **MTBE** **5** Maximum: **12,000 µg/l (MW-7)**

Notes:

*Groundwater Gradient flow is 0.03ft/ft West and 0.03ft/ft South.

TABLES

TABLE KEY

STANDARD ABBREVIATIONS

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

ANALYTES

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

NOTES

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

Table 1
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
June 23, 2005
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 (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-1		(Screen Interval in feet: 9.5-24.5)												
06/23/05	86.99	13.39	0.00	73.60	-0.41	--	24000	140	ND<25	1100	2900	--	600	
MW-6		(Screen Interval in feet: 5.0-25.0)												
06/23/05	79.67	8.33	0.00	71.34	0.00	--	230	0.52	ND<0.50	3.6	9.6	--	200	
MW-7		(Screen Interval in feet: 5.0-25.0)												
06/23/05	80.67	8.56	0.00	72.11	-0.64	--	8700	ND<25	ND<25	ND<25	ND<50	--	12000	
MW-8		(Screen Interval in feet: 5.0-25.0)												
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	
MW-9		(Screen Interval in feet: DNA)												
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	
MW-10		(Screen Interval in feet: DNA)												
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	
MW-11		(Screen Interval in feet: DNA)												
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	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
November 1992 Through June 2005
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 (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-1 (Screen Interval in feet: 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	--	
07/10/00	86.24	13.97	0.00	72.27	1.08	67800	--	9910	4120	3330	16100	67400	54000	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
November 1992 Through June 2005
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 (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-1 continued														
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	
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	--	--	
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	--	--	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
November 1992 Through June 2005
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 (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-2 continued														
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	--	--	
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	--	--	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
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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 (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-3 continued														
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	--	
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)														

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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 (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-5 continued														
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	
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	

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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 (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-6 continued														
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	
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	
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	

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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	
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	
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	

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MW-9 continued														
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	
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	
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	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
November 1992 Through June 2005
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 (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-10 continued														
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	
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	

Table 3
ADDITIONAL ANALYTICAL RESULTS
76 Station 1871

Date Sampled	TPH-D (µg/l)	EDC (µg/l)	EDB (µg/l)	DO (mg/l)	TAME 8260B (µg/l)	TBA 8260B (µg/l)	DIPE 8260B (µg/l)	ETBE 8260B (µg/l)	ORP (mV)	pH (pH)	Ethanol 8260B (µg/l)
MW-1											
06/18/99	--	--	ND	--	ND	ND	ND	ND	--	--	ND
07/16/01	--	--	ND	--	ND	ND	ND	ND	--	--	ND
01/14/03	--	--	ND<2.0	--	ND<2.0	ND<100	ND<2.0	ND<2.0	--	--	ND<500
07/16/03	--	--	--	--	--	--	--	--	--	--	ND<10000
10/02/03	--	--	--	--	--	--	--	--	--	--	ND<25000
01/07/04	--	--	--	--	--	--	--	--	--	--	ND<20000
04/02/04	--	--	--	--	--	--	--	--	--	--	ND<50
07/29/04	--	--	--	--	--	--	--	--	--	--	ND<2000
11/24/04	--	--	--	3.08	--	--	--	--	-39	6.58	ND<2000
01/24/05	--	--	--	--	--	--	--	--	--	--	ND<2000
06/23/05	--	--	--	6.19	--	--	--	--	-116	--	ND<50000
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
07/16/01	--	ND	ND	--	ND	ND	ND	ND	--	--	ND
07/11/02	--	ND<100	ND<100	--	ND<100	ND<1000	ND<200	ND<100	--	--	ND<5000
01/14/03	--	ND<2.0	ND<2.0	--	ND<2.0	ND<100	ND<2.0	ND<2.0	--	--	ND<500
07/16/03	--	--	--	--	--	--	--	--	--	--	ND<500
10/02/03	--	--	--	--	--	--	--	--	--	--	ND<1000

Table 3
ADDITIONAL ANALYTICAL RESULTS
76 Station 1871

Date Sampled	TPH-D (µg/l)	EDC (µg/l)	EDB (µg/l)	DO (mg/l)	TAME 8260B (µg/l)	TBA 8260B (µg/l)	DIPE 8260B (µg/l)	ETBE 8260B (µg/l)	ORP (mV)	pH (pH)	Ethanol 8260B (µg/l)
MW-6 continued											
01/07/04	--	--	--	--	--	--	--	--	--	--	ND<1000
04/02/04	--	--	--	--	--	--	--	--	--	--	ND<2000
07/29/04	--	--	--	--	--	--	--	--	--	--	ND<100
11/24/04	--	--	--	2.81	--	--	--	--	-12	6.99	ND<50
01/24/05	--	--	--	--	--	--	--	--	--	--	ND<50
06/23/05	--	--	--	1.80	--	--	--	--	72	--	ND<1000
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<1000	ND<1000	--	ND<1000	ND<50000	ND<1000	ND<1000	--	--	ND<250000
07/16/03	--	--	--	--	--	--	--	--	--	--	ND<250000
10/02/03	--	--	--	--	--	--	--	--	--	--	ND<100000
01/07/04	--	--	--	--	--	--	--	--	--	--	ND<200000
04/02/04	--	--	--	--	--	--	--	--	--	--	ND<2000
07/29/04	--	--	--	--	--	--	--	--	--	--	ND<5000
11/24/04	--	--	--	1.99	--	--	--	--	-24	6.60	ND<5000
01/24/05	--	--	--	--	--	--	--	--	--	--	ND<5000
06/23/05	--	--	--	1.54	--	--	--	--	-38	--	ND<50000
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<10	ND<10	--	ND<10	ND<500	ND<10	ND<10	--	--	ND<2500
07/16/03	--	--	--	--	--	--	--	--	--	--	ND<500
10/02/03	--	--	--	--	--	--	--	--	--	--	ND<500
01/07/04	--	--	--	--	--	--	--	--	--	--	ND<50000
04/02/04	--	--	--	--	--	--	--	--	--	--	ND<2000

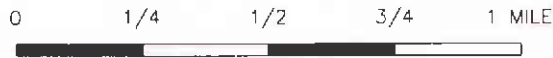
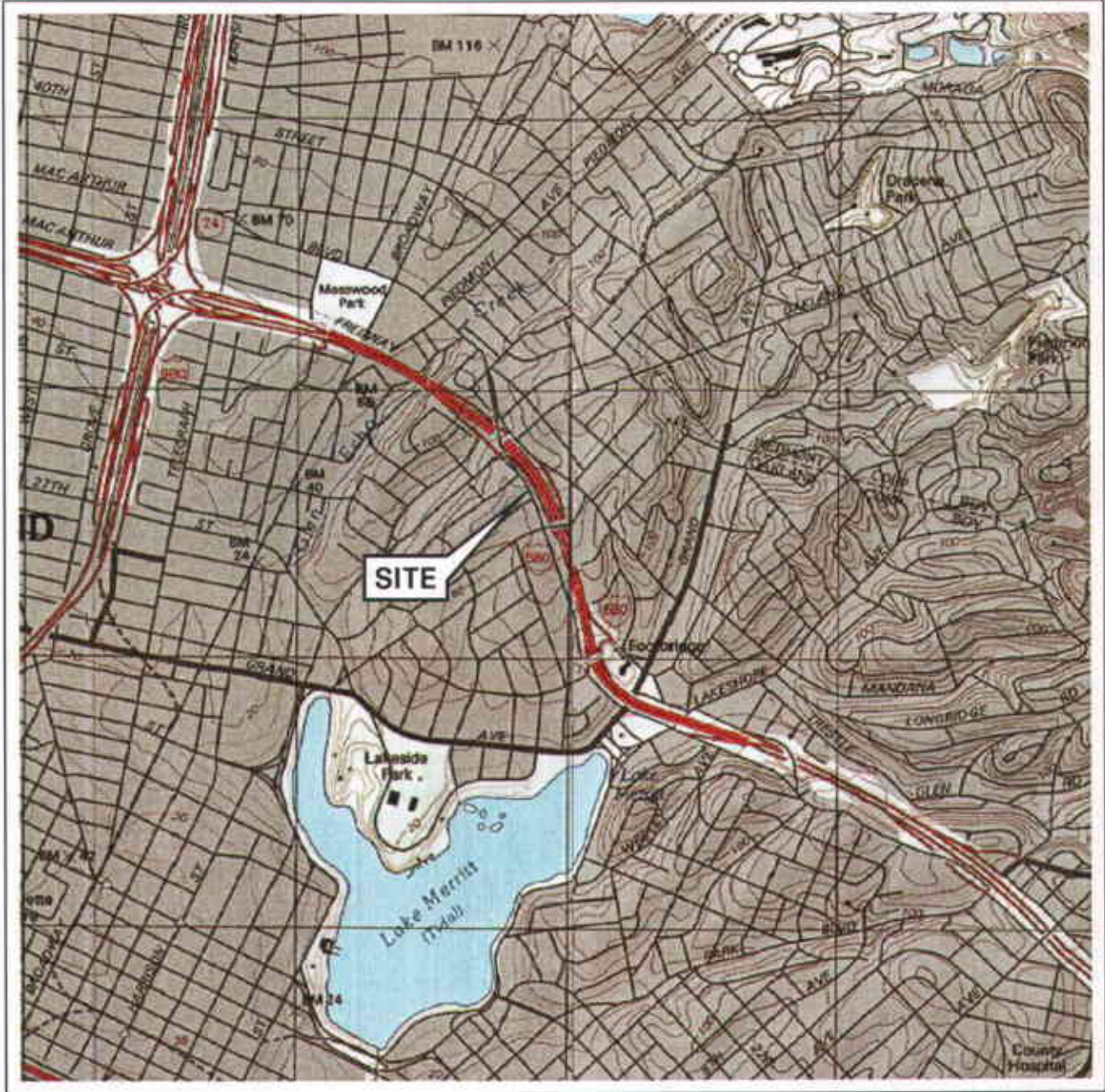
Table 3
ADDITIONAL ANALYTICAL RESULTS
76 Station 1871

Date Sampled	TPH-D (µg/l)	EDC (µg/l)	EDB (µg/l)	DO (mg/l)	TAME 8260B (µg/l)	TBA 8260B (µg/l)	DIPE 8260B (µg/l)	ETBE 8260B (µg/l)	ORP (mV)	pH (pH)	Ethanol 8260B (µg/l)
MW-8 continued											
07/29/04	--	--	--	--	--	--	--	--	--	--	ND<2500
11/24/04	--	--	--	2.71	--	--	--	--	-36	6.67	ND<1000
01/24/05	--	--	--	--	--	--	--	--	--	--	ND<2500
06/23/05	--	--	--	1.97	--	--	--	--	52	--	ND<1000
MW-9											
01/31/02	--	ND<7.1	ND<7.1	--	ND<7.1	ND<140	ND<7.1	ND<7.1	--	--	ND<3600
01/14/03	--	ND<8.0	ND<8.0	--	ND<8.0	ND<400	ND<8.0	ND<8.0	--	--	ND<2000
07/16/03	--	--	--	--	--	--	--	--	--	--	ND<25000
10/02/03	--	--	--	--	--	--	--	--	--	--	ND<5000
01/07/04	--	--	--	--	--	--	--	--	--	--	ND<10000
04/02/04	--	--	--	--	--	--	--	--	--	--	ND<500
07/29/04	--	--	--	--	--	--	--	--	--	--	ND<1000
11/24/04	--	--	--	3.24	--	--	--	--	-67	6.47	ND<500
01/24/05	--	--	--	--	--	--	--	--	--	--	ND<1000
06/23/05	--	--	--	1.56	--	--	--	--	-142	--	ND<10000
MW-10											
01/31/02	--	ND<1.0	ND<1.0	--	ND<1.0	ND<20	ND<1.0	ND<1.0	--	--	ND<500
01/14/03	--	ND<2.0	ND<2.0	--	ND<2.0	ND<100	ND<2.0	ND<2.0	--	--	ND<500
07/16/03	--	--	--	--	--	--	--	--	--	--	ND<500
10/02/03	--	--	--	--	--	--	--	--	--	--	ND<500
01/07/04	--	--	--	--	--	--	--	--	--	--	ND<500
04/02/04	--	--	--	--	--	--	--	--	--	--	ND<50
07/29/04	--	--	--	--	--	--	--	--	--	--	ND<50
11/24/04	--	--	--	2.59	--	--	--	--	-29	6.89	ND<50
01/24/05	--	--	--	--	--	--	--	--	--	--	ND<50
06/23/05	--	--	--	1.63	--	--	--	--	42	--	ND<1000

Table 3
ADDITIONAL ANALYTICAL RESULTS
76 Station 1871

Date Sampled	TPH-D (µg/l)	EDC (µg/l)	EDB (µg/l)	DO (mg/l)	TAME 8260B (µg/l)	TBA 8260B (µg/l)	DIPE 8260B (µg/l)	ETBE 8260B (µg/l)	ORP (mV)	pH (pH)	Ethanol 8260B (µg/l)
MW-11											
01/31/02	--	ND<1.0	ND<1.0	--	ND<1.0	ND<20	ND<1.0	ND<1.0	--	--	ND<500
01/14/03	--	ND<2.0	ND<2.0	--	ND<2.0	ND<100	ND<2.0	ND<2.0	--	--	ND<500
07/16/03	--	--	--	--	--	--	--	--	--	--	ND<500
10/02/03	--	--	--	--	--	--	--	--	--	--	ND<500
01/07/04	--	--	--	--	--	--	--	--	--	--	ND<500
04/02/04	--	--	--	--	--	--	--	--	--	--	ND<50
07/29/04	--	--	--	--	--	--	--	--	--	--	ND<50
11/24/04	--	--	--	3.85	--	--	--	--	143	6.75	ND<50
01/24/05	--	--	--	--	--	--	--	--	--	--	ND<50
06/23/05	--	--	--	2.13	--	--	--	--	80	--	ND<1000

FIGURES



SCALE 1: 24,000



VICINITY MAP

76 Station 1871
 96 MacArthur Boulevard
 Oakland, California

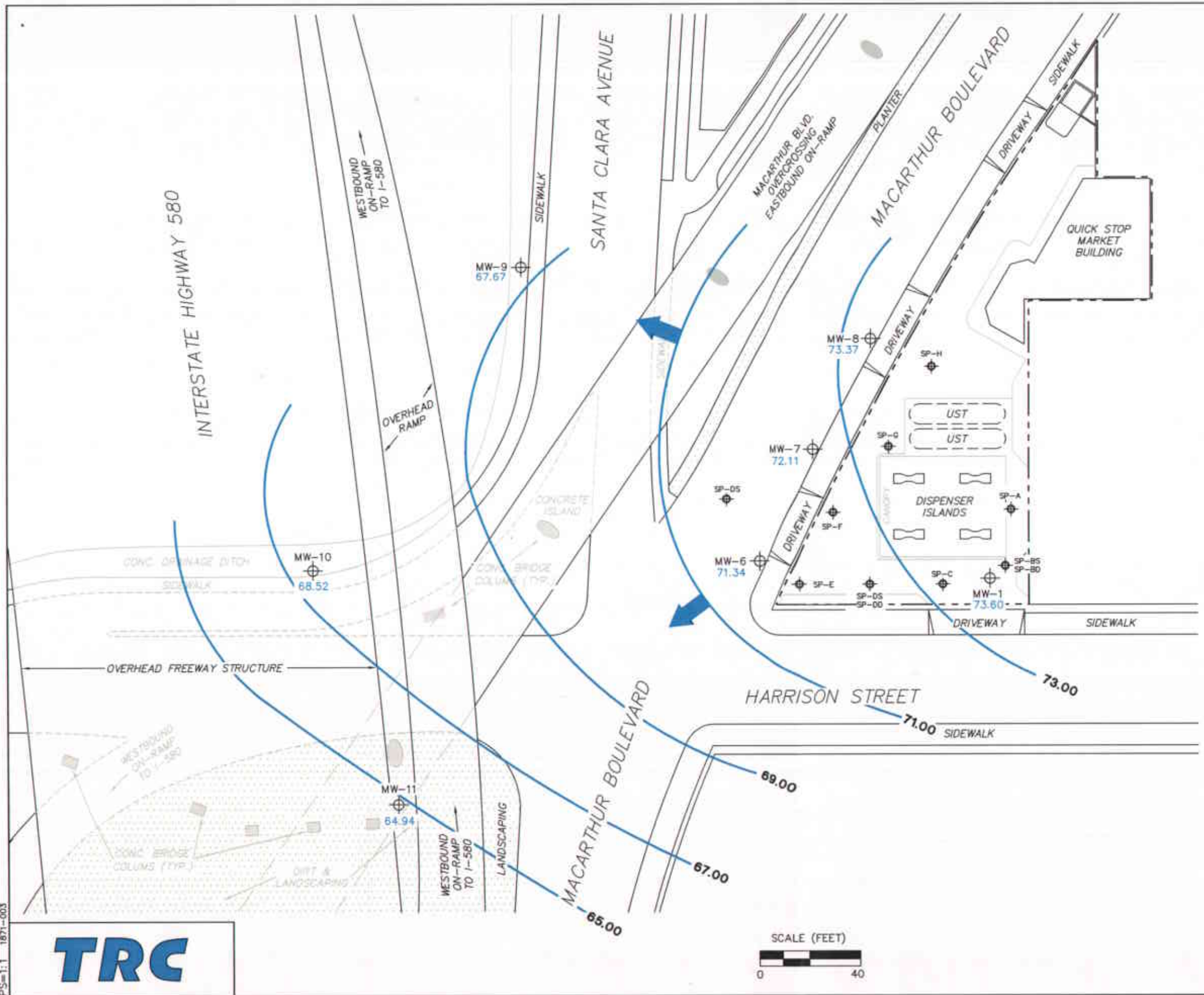
SOURCE:

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

FIGURE 1

PS = 1:1

TRC



LEGEND

- MW-11 ⊕ Monitoring Well with Groundwater Elevation (feet)
- SP-H ⊕ Ozone Sparge Well
- 73.00 — Groundwater Elevation Contour
- ➔ General Direction of Groundwater Flow

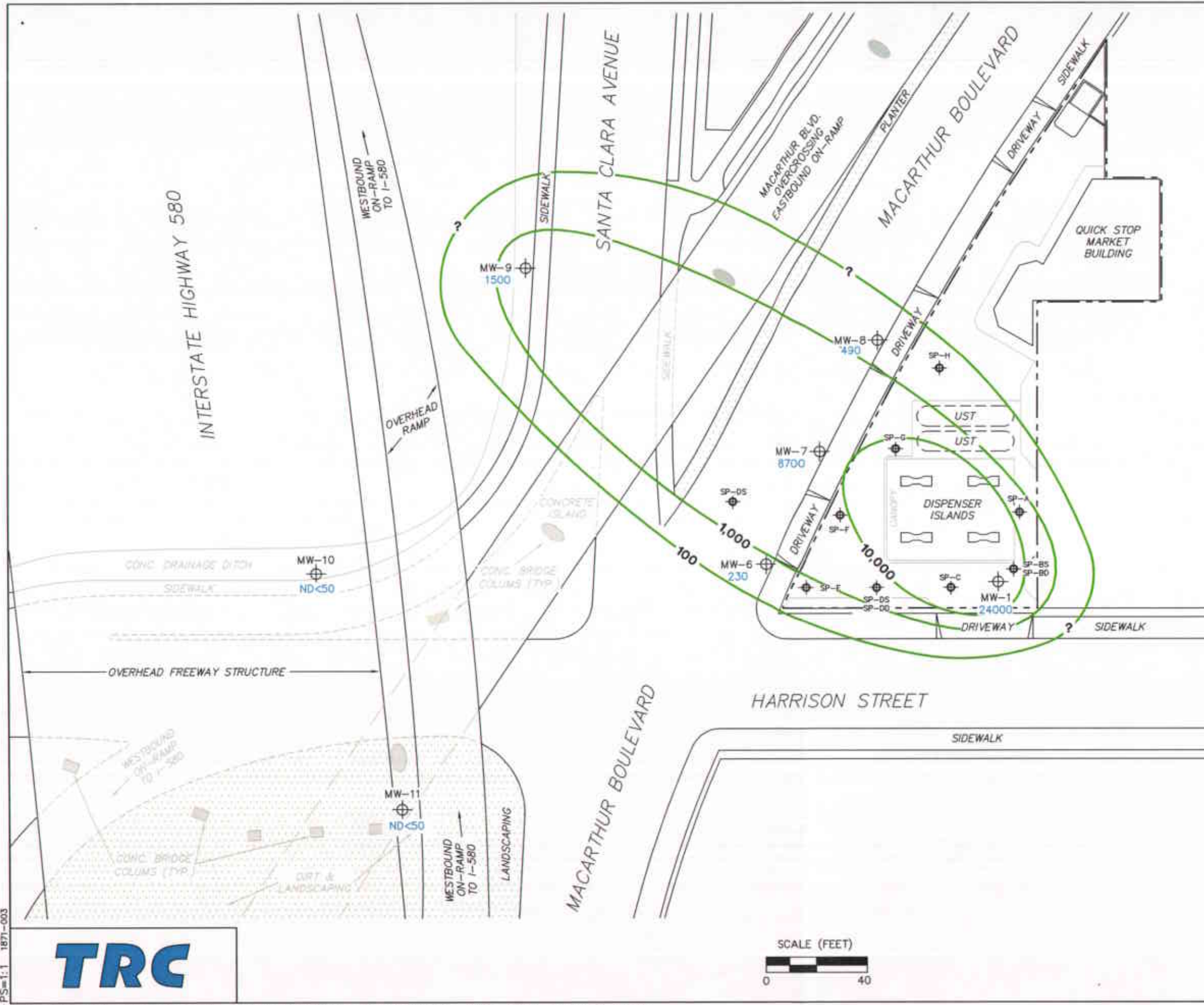
NOTES:
 Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. UST = underground storage tank.

GROUNDWATER ELEVATION CONTOUR MAP
 June 23, 2005

76 Station 1871
 96 MacArthur Boulevard
 Oakland, California

FIGURE 2





LEGEND

- MW-11 ⊕ Monitoring Well with Dissolved-Phase TPPH Concentration (µg/l)
- SP-H ⊕ Ozone Sparge Well
- 10,000 — Dissolved-Phase TPPH Contour (µg/l)

NOTES:
 Contour lines are interpretive and based on laboratory analysis results of groundwater samples. TPPH = total purgeable petroleum hydrocarbons. µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report. UST = underground storage tank. Results obtained using EPA Method 8260B.

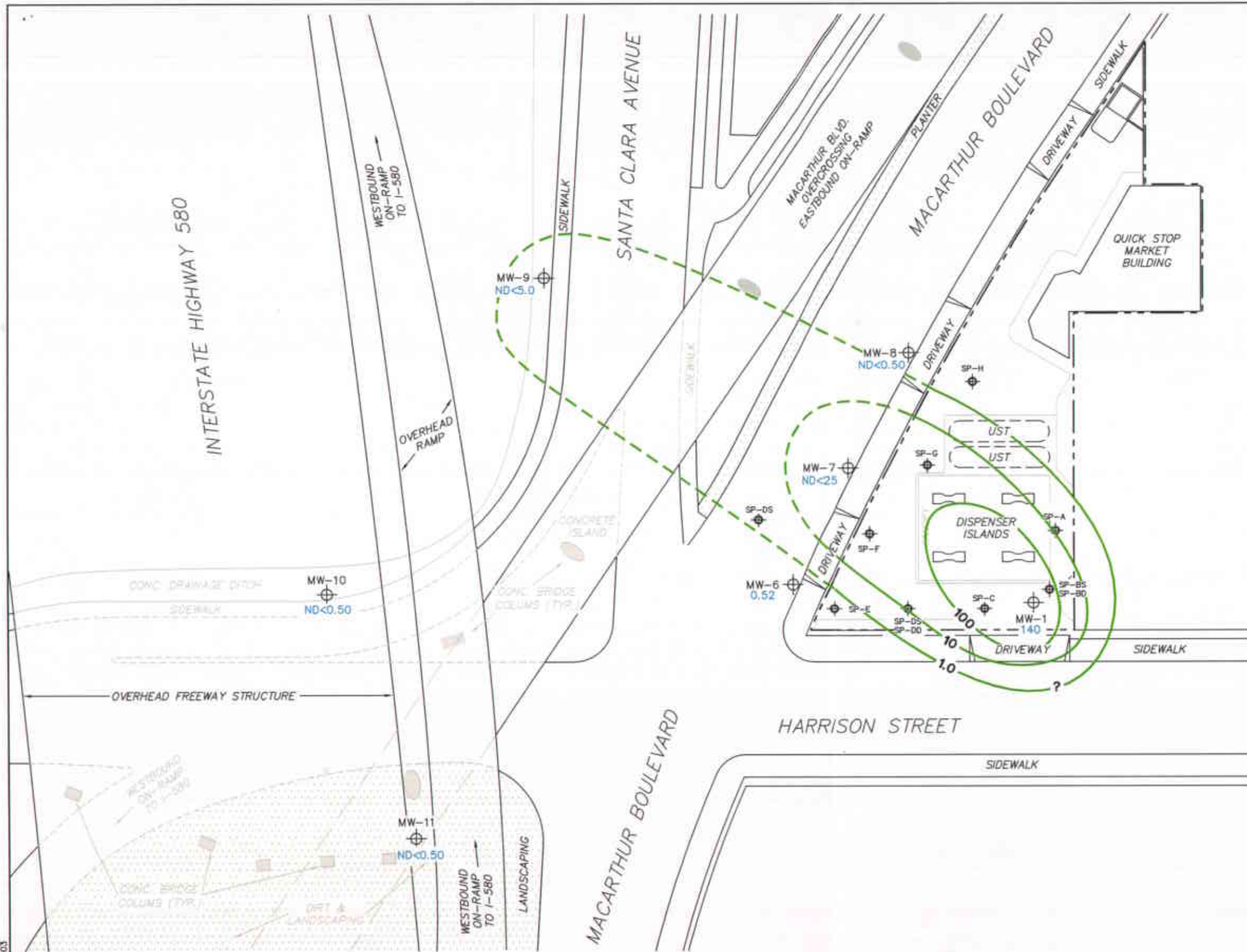
DISSOLVED-PHASE TPPH CONCENTRATION MAP
 June 23, 2005

76 Station 1871
 96 MacArthur Boulevard
 Oakland, California

FIGURE 3

PS=1:1 1871-003





LEGEND

- MW-11 ⊕ Monitoring Well with Dissolved-Phase Benzene Concentration ($\mu\text{g/l}$)
- SP-H ⊕ Ozone Sparge Well
- 100 — Dissolved-Phase Benzene Contour ($\mu\text{g/l}$)

NOTES:

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

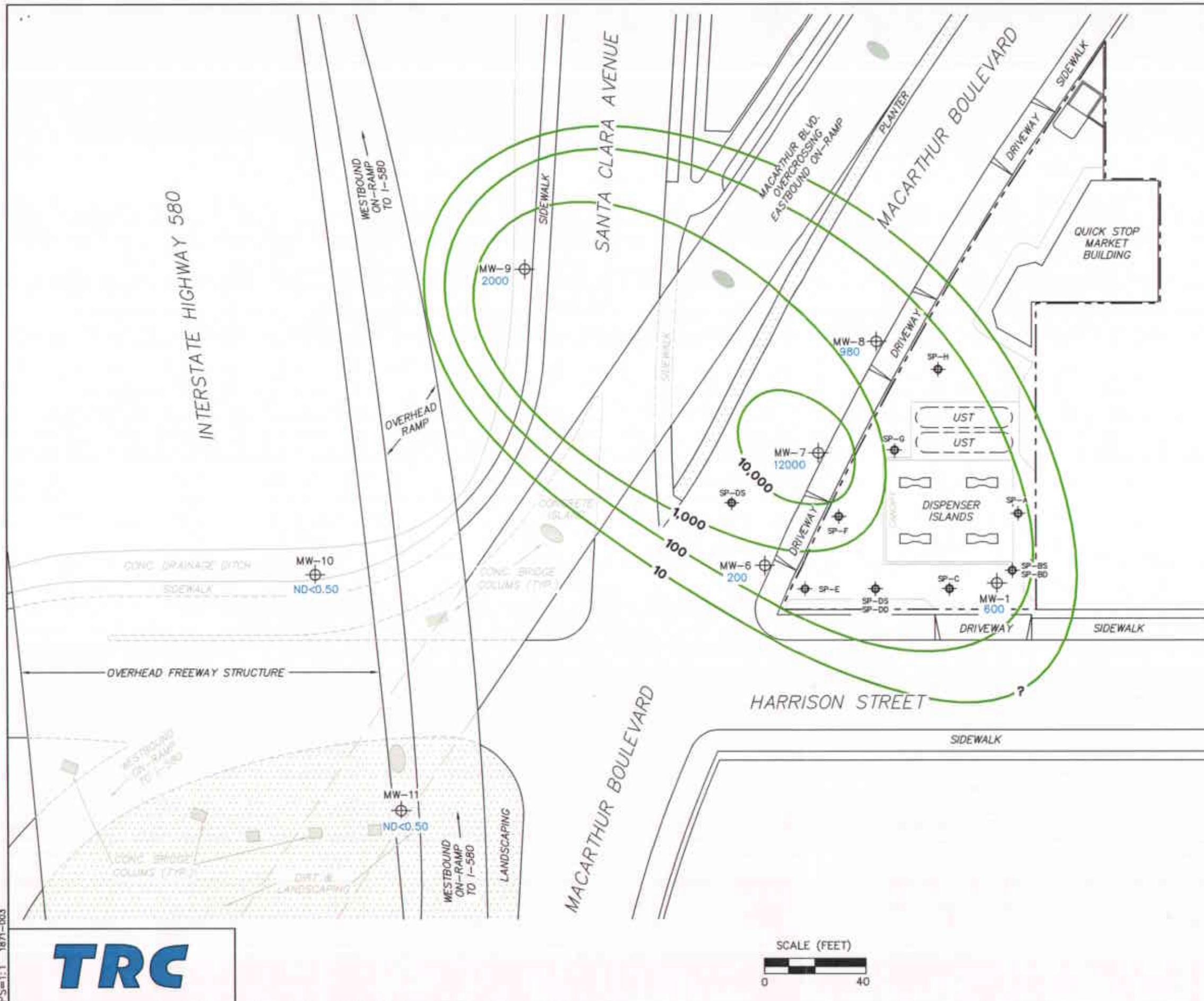
DISSOLVED-PHASE BENZENE CONCENTRATION MAP
June 23, 2005

76 Station 1871
96 MacArthur Boulevard
Oakland, California

FIGURE 4



P/S=1:1 1871-003



LEGEND

- MW-11 Monitoring Well with Dissolved-Phase MTBE Concentration ($\mu\text{g}/\text{l}$)
- SP-H Ozone Sparge Well
- 10,000 Dissolved-Phase MTBE Contour ($\mu\text{g}/\text{l}$)

NOTES:
 Contour lines are interpretive and based on laboratory analysis results of groundwater samples. MTBE = methyl tertiary butyl ether. $\mu\text{g}/\text{l}$ = micrograms per liter. ND = not detected at limit indicated on official laboratory report. UST = underground storage tank. Results obtained using EPA Method 8260B.

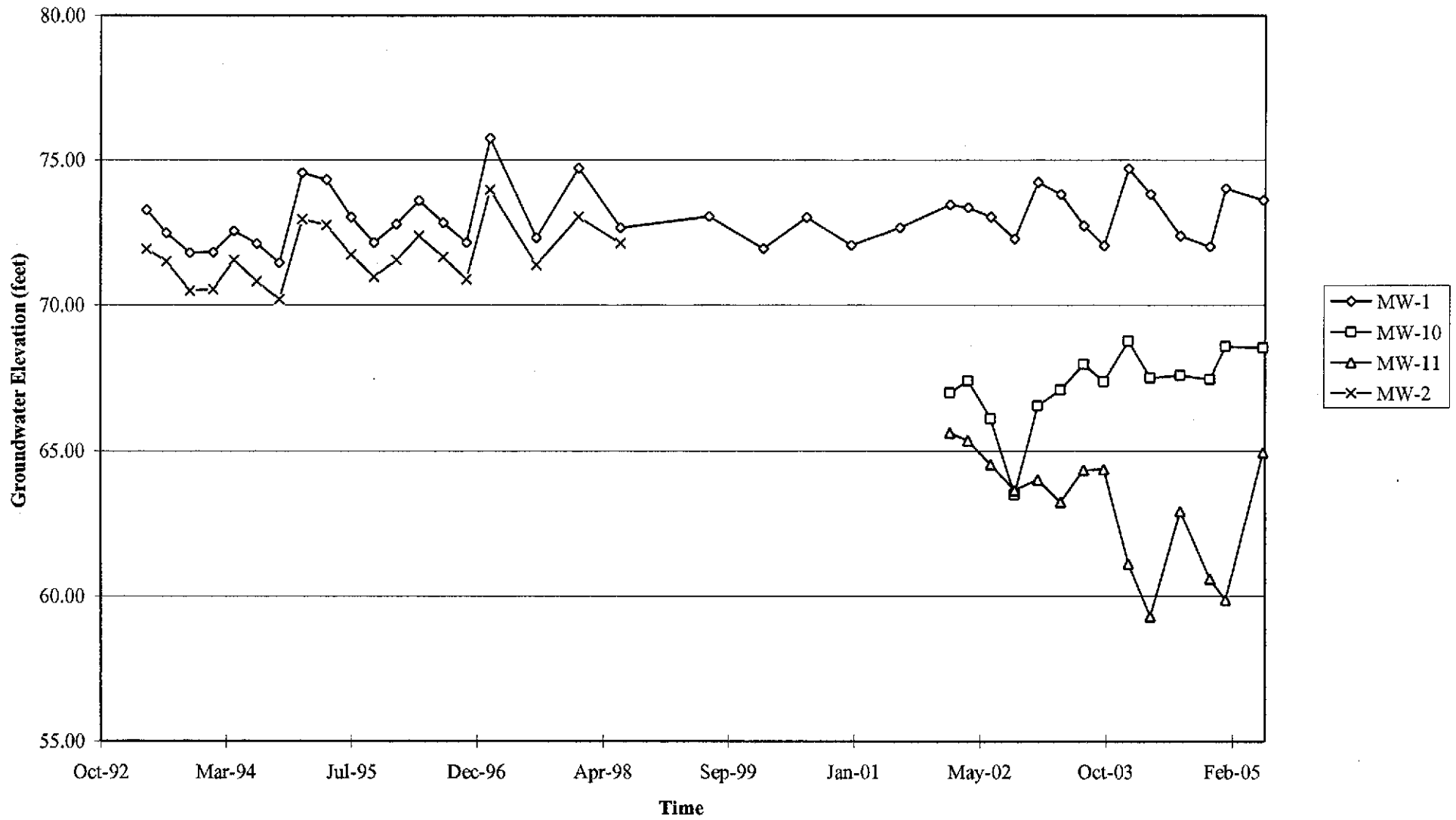
DISSOLVED-PHASE MTBE CONCENTRATION MAP
 June 23, 2005

76 Station 1871
 96 MacArthur Boulevard
 Oakland, California

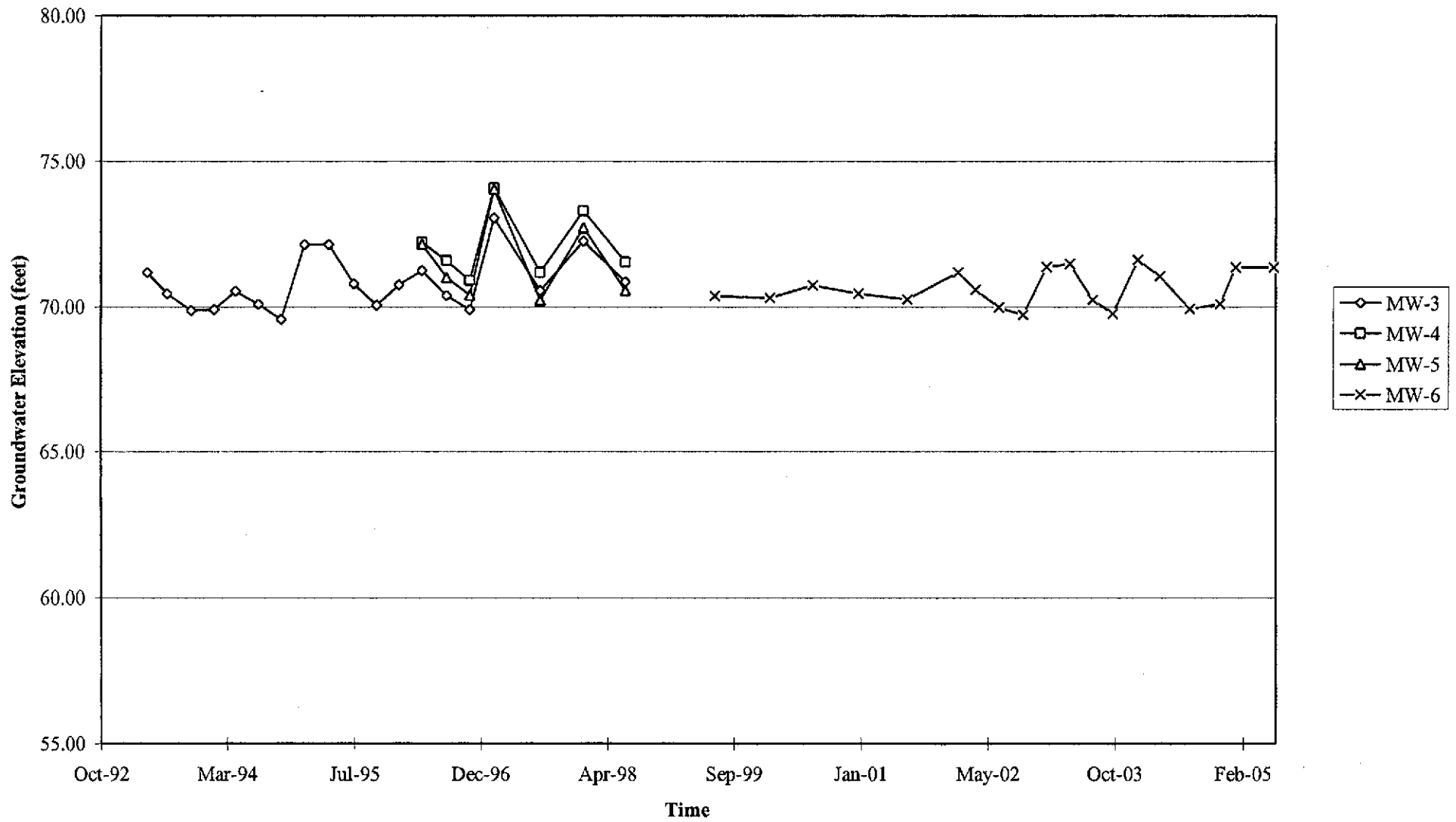
FIGURE 5

GRAPHS

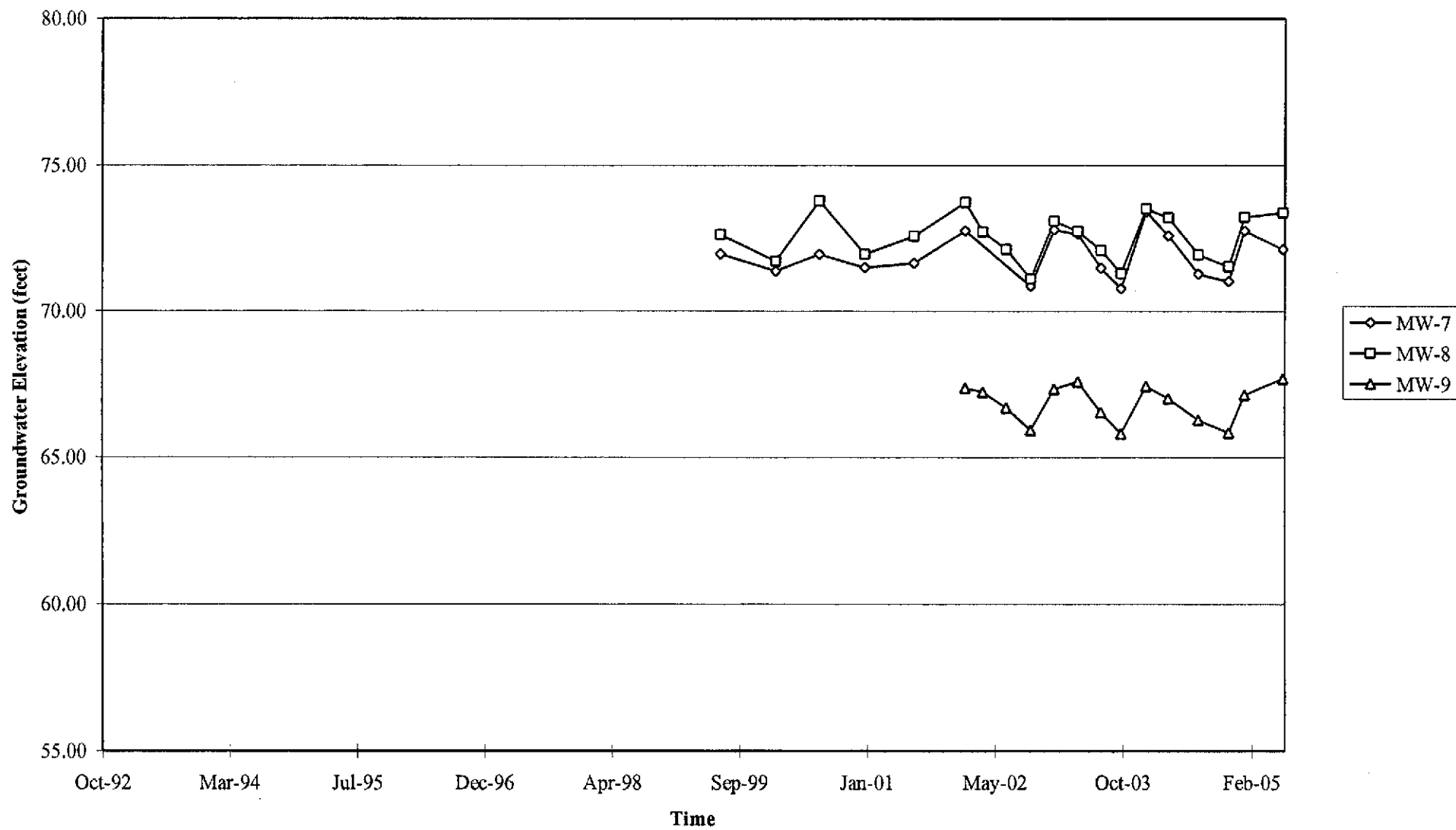
Groundwater Elevations vs. Time
76 Station 1871



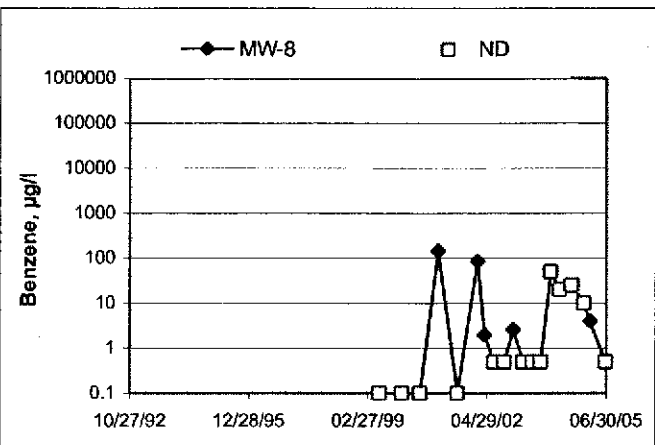
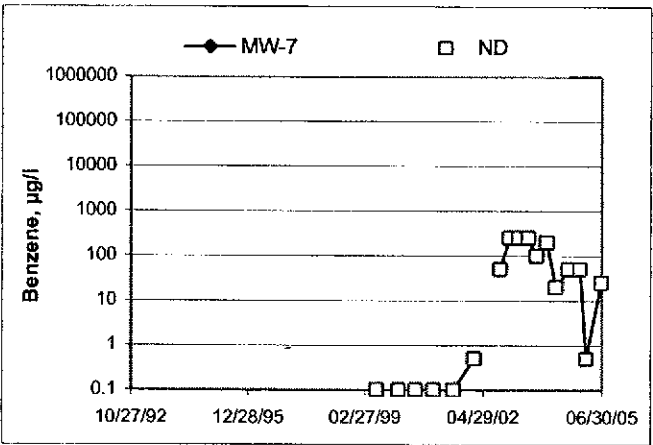
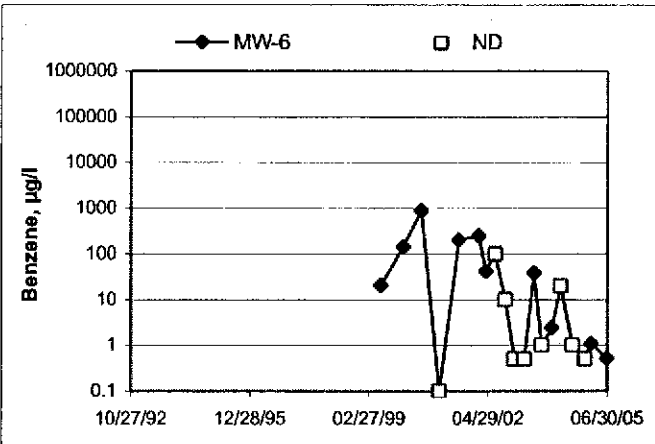
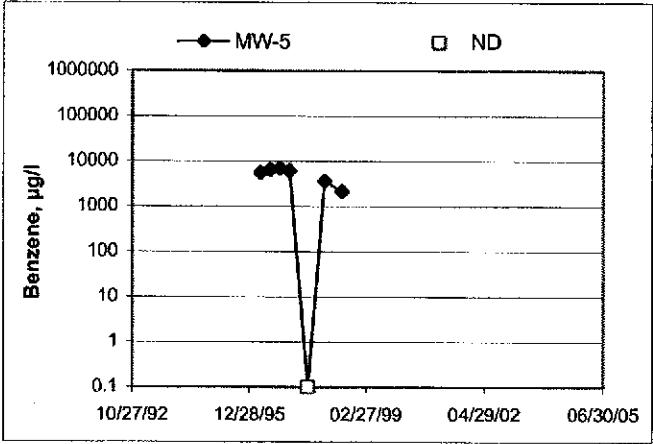
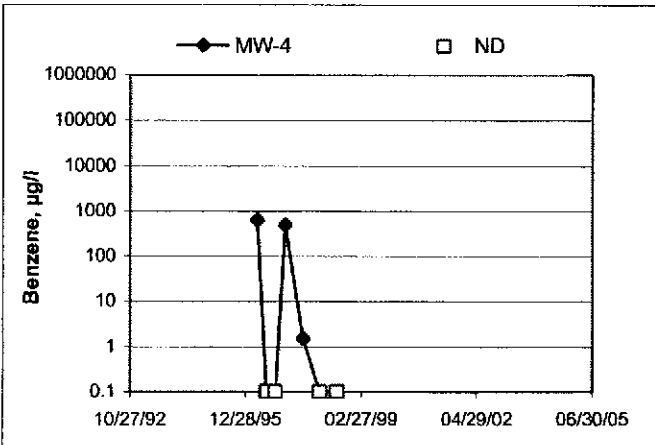
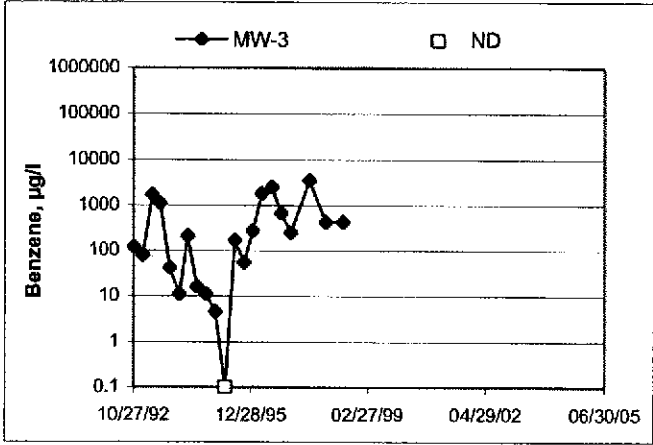
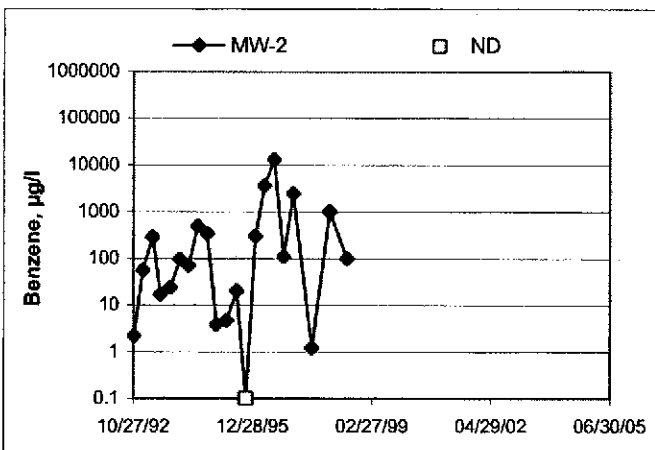
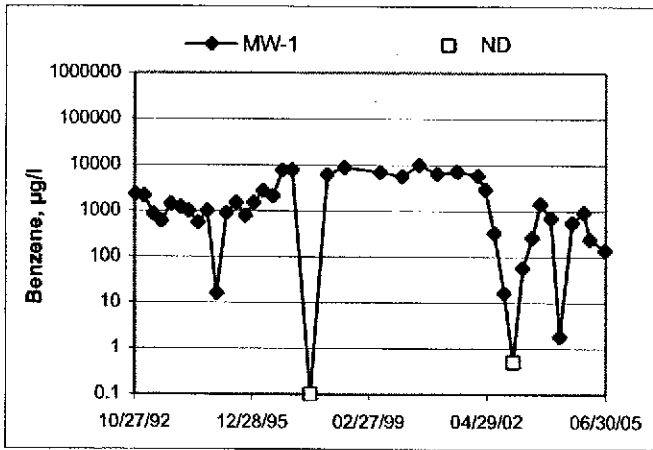
Groundwater Elevations vs. Time
76 Station 1871



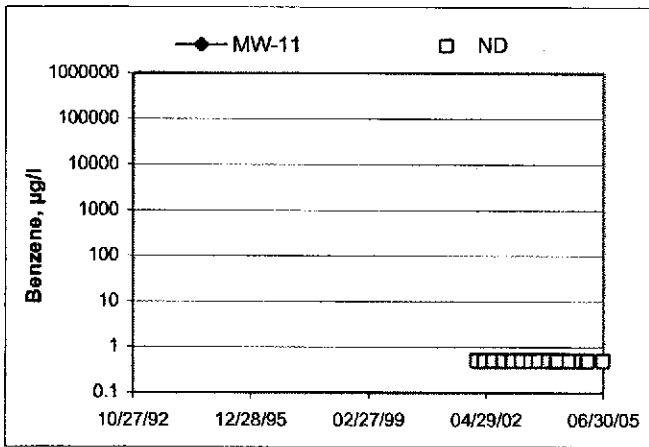
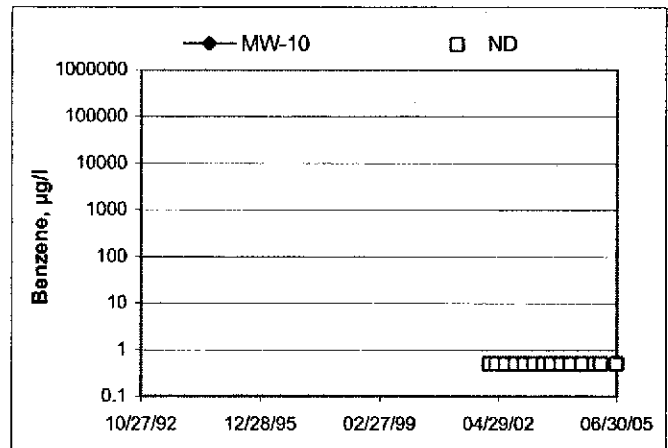
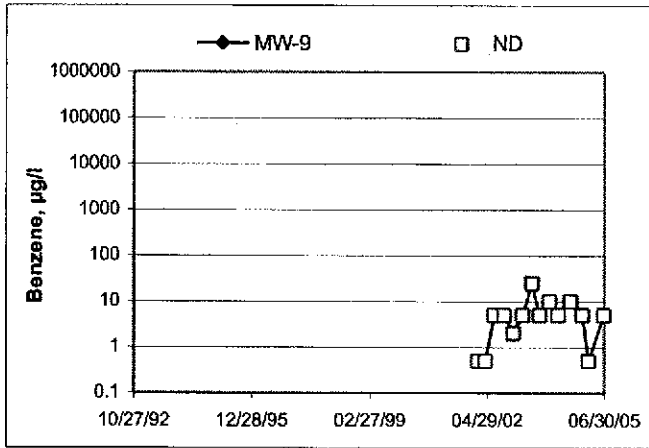
Groundwater Elevations vs. Time
76 Station 1871



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 measurement are calibrated daily according to manufacturer's instructions.

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

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

Groundwater Sample Collection

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

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

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

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

Sequence of Gauging, Purging, and Sampling

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

Decontamination

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

Exceptions

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

FIELD MONITORING DATA SHEET

Technician: Melissa

Job #/Task #: 41050001/FA20

Date: 06-23-05

Site # 1871

Project Manager: A. Collins

Page 1 of 1

Well #	TOC	Time Gauged	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
MW-11	✓	0526	30.65	12.37	—	—	0857	2"
MW-10	✓	0533	19.99	6.46	—	—	0909	2"
MW-9	✓	0750	19.85	14.40	—	—	0919	2"
MW-7	✓	0754	24.29	8.56	—	—	0926	2"
MW-6	✓	0539	24.47	8.33	—	—	0935	2"
MW-8	✓	0545	24.29	8.34	—	—	0942	2"
MW-1	✓	0551	23.98	13.39	—	—	0949	4"

<input checked="" type="checkbox"/> FIELD DATA COMPLETE	<input checked="" type="checkbox"/> QA/QC	<input checked="" type="checkbox"/> COC	<input checked="" type="checkbox"/> WELL BOX CONDITION SHEETS
<input checked="" type="checkbox"/> WTT CERTIFICATE	<input checked="" type="checkbox"/> MANIFEST	<input checked="" type="checkbox"/> DRUM INVENTORY	<input checked="" type="checkbox"/> TRAFFIC CONTROL



GROUNDWATER SAMPLING FIELD NOTES

Technician: Melissa

Site: 1871

Project No.: 41050001

Date: 06-23-05

Well No.: MW-11

Purge Method: Dia

Depth to Water (feet): 12.37

Depth to Product (feet): 0

Total Depth (feet): 30.05

LPH & Water Recovered (gallons): 0

Water Column (feet): 17.68

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 15.90

1 Well Volume (gallons): 3

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temperature (F. °)	pH	Turbidity orp	D.O.
0636			3	1331	16.7	6.88	76	2.16
			6	1339	16.9	6.90	80	2.13
	0638		9	1336	17.0	6.96	82	2.17
Static at Time Sampled		Total Gallons Purged			Time Sampled			
19.14		9			0857			
Comments: <u>Did not recover after 2 hrs.</u>								

Well No.: MW-10

Purge Method: Dia

Depth to Water (feet): 6.46

Depth to Product (feet): 0

Total Depth (feet): 19.99

LPH & Water Recovered (gallons): 0

Water Column (feet): 13.53

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 9.16

1 Well Volume (gallons): 2

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temperature (F. °)	pH	Turbidity orp	D.O.
0701			2	437	16.6	7.59	40	1.76
			4	431	16.6	7.30	42	1.63
	0702		6	433	16.8	7.39	44	7.83
Static at Time Sampled		Total Gallons Purged			Time Sampled			
12.90		6			0909			
Comments: <u>Did not recover after 2 hrs.</u>								

GROUNDWATER SAMPLING FIELD NOTES

Technician: Melissa

Site: 1871

Project No.: 41050001

Date: 06-23-05

Well No.: MW-9

Purge Method: AB

Depth to Water (feet): 14.40

Depth to Product (feet): 0

Total Depth (feet): 19.85

LPH & Water Recovered (gallons): 0

Water Column (feet): 5.45

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 15.49

1 Well Volume (gallons): 1

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F. @)	pH	Turbidity orp	D.O.
0809			1	564	17.3	6.48	-136	1.44
			2	585	17.4	6.48	-142	1.56
	0816		3	566	17.6	6.46	-144	1.50
Static at Time Sampled			Total Gallons Purged		Time Sampled			
14.43			3		0919			
Comments:								

Well No.: MW-7

Purge Method: AB

Depth to Water (feet): 8.56

Depth to Product (feet): 0

Total Depth (feet): 24.29

LPH & Water Recovered (gallons): 0

Water Column (feet): 15.73

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 11.70

1 Well Volume (gallons): 3

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F. @)	pH	Turbidity orp	D.O.
0823			3	621	19.5	6.62	-37	2.18
			6	628	19.7	6.65	-38	1.54
	0841		9	625	19.7	6.74	-32	2.84
Static at Time Sampled			Total Gallons Purged		Time Sampled			
9.02			9		0926			
Comments:								

GROUNDWATER SAMPLING FIELD NOTES

Technician: Melissa

Site: 1871

Project No.: 41050001

Date: 06-23-05

Well No.: MW-6

Purge Method: D: a

Depth to Water (feet): 8.33

Depth to Product (feet): 0

Total Depth (feet): 24.49

LPH & Water Recovered (gallons): 0

Water Column (feet): 16.16

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 11.56

1 Well Volume (gallons): 3

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F. @)	pH	Turbidity ocrp	D.O.
0611			3	493	19.7	6.87	70	1.73
			6	510	19.7	7.14	72	1.80
	0613		9	514	19.5	7.45	71	1.86
Static at Time Sampled			Total Gallons Purged		Time Sampled			
8.61			9		0935			
Comments:								

Well No.: MW-8

Purge Method: D: a

Depth to Water (feet): 8.34

Depth to Product (feet): 0

Total Depth (feet): 24.29

LPH & Water Recovered (gallons): 0

Water Column (feet): 15.95

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 11.53

1 Well Volume (gallons): 3

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F. @)	pH	Turbidity ocrp	D.O.
0623			3	452	19.2	6.61	58	2.13
			6	449	19.2	6.64	52	1.97
	0625		9	447	19.3	6.80	56	2.05
Static at Time Sampled			Total Gallons Purged		Time Sampled			
8.81			9		0942			
Comments:								

GROUNDWATER SAMPLING FIELD NOTES

Technician: Melissa

Site: 187φ⁺⁺

Project No.: 41050001

Date: 06-23-05

Well No.: MW-1

Purge Method: Disc

Depth to Water (feet): 13.39

Depth to Product (feet): 0

Total Depth (feet): 23.98

LPH & Water Recovered (gallons): 0

Water Column (feet): 10.59

Casing Diameter (Inches): 4"

80% Recharge Depth (feet): 15.50

1 Well Volume (gallons): 7

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temperature (F.°C)	pH	Turbidity- orp	D.O.
0717			7	391	20.1	7.13	-103	4.79
			14	586	20.1	6.84	-116	6.19
	0725		21	—	—	—	—	—
Static at Time Sampled			Total Gallons Purged		Time Sampled			
19.59			16		0949			
Comments: <u>Well went dry after 16 gallons. Did not Recover after 45 minutes. Did not Recover after 2 hrs.</u>								

Well No.: _____

Purge Method: _____

Depth to Water (feet): _____

Depth to Product (feet): _____

Total Depth (feet): _____

LPH & Water Recovered (gallons): _____

Water Column (feet): _____

Casing Diameter (Inches): _____

80% Recharge Depth (feet): _____

1 Well Volume (gallons): _____

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



Laboratories, Inc

Date of Report: 07/11/2005

Anju Farfan

TRC Alton Geoscience

21 Technology Drive
Irvine, CA 92618-2302

RE: 1871

BC Lab Number: 0506261

Enclosed are the results of analyses for samples received by the laboratory on 06/24/05 17:31. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Contact Person: Vanessa Surratt
Client Service Rep

A handwritten signature in black ink, written over a horizontal line.

Authorized Signature

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

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

Reported: 07/11/05 08:18

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
0506261-01	COC Number: --- Project Number: 1871 Sampling Location: MW-11 Sampling Point: MW-11 Sampled By: Melissa of TRCI	Receive Date: 06/24/05 17:31 Sampling Date: 06/23/05 08:57 Sample Depth: --- Sample Matrix: Water	Delivery Work Order (LabW): Global ID: T0600101493 Matrix: W Sample QC Type (SACode): CS Cooler ID:
0506261-02	COC Number: --- Project Number: 1871 Sampling Location: MW-10 Sampling Point: MW-10 Sampled By: Melissa of TRCI	Receive Date: 06/24/05 17:31 Sampling Date: 06/23/05 09:09 Sample Depth: --- Sample Matrix: Water	Delivery Work Order (LabW): Global ID: T0600101493 Matrix: W Sample QC Type (SACode): CS Cooler ID:
0506261-03	COC Number: --- Project Number: 1871 Sampling Location: MW-9 Sampling Point: MW-9 Sampled By: Melissa of TRCI	Receive Date: 06/24/05 17:31 Sampling Date: 06/23/05 09:19 Sample Depth: --- Sample Matrix: Water	Delivery Work Order (LabW): Global ID: T0600101493 Matrix: W Sample QC Type (SACode): CS Cooler ID:
0506261-04	COC Number: --- Project Number: 1871 Sampling Location: MW-7 Sampling Point: MW-7 Sampled By: Melissa of TRCI	Receive Date: 06/24/05 17:31 Sampling Date: 06/23/05 09:26 Sample Depth: --- Sample Matrix: Water	Delivery Work Order (LabW): Global ID: T0600101493 Matrix: W Sample QC Type (SACode): CS Cooler ID:
0506261-05	COC Number: --- Project Number: 1871 Sampling Location: MW-6 Sampling Point: MW-6 Sampled By: Melissa of TRCI	Receive Date: 06/24/05 17:31 Sampling Date: 06/23/05 09:35 Sample Depth: --- Sample Matrix: Water	Delivery Work Order (LabW): Global ID: T0600101493 Matrix: W Sample QC Type (SACode): CS Cooler ID:



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

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

Reported: 07/11/05 08:18

Laboratory / Client Sample Cross Reference

Laboratory Client Sample Information

0506261-06	COC Number:	---	Receive Date:	06/24/05 17:31	Delivery Work Order (LabW):
	Project Number:	1871	Sampling Date:	06/23/05 09:42	Global ID: T0600101493
	Sampling Location:	MW-8	Sample Depth:	---	Matrix: W
	Sampling Point:	MW-8	Sample Matrix:	Water	Sample QC Type (SACode): CS
	Sampled By:	Melissa of TRCI			Cooler ID:
0506261-07	COC Number:	---	Receive Date:	06/24/05 17:31	Delivery Work Order (LabW):
	Project Number:	1871	Sampling Date:	06/23/05 09:49	Global ID: T0600101493
	Sampling Location:	MW-1	Sample Depth:	---	Matrix: W
	Sampling Point:	MW-1	Sample Matrix:	Water	Sample QC Type (SACode): CS
	Sampled By:	Melissa of TRCI			Cooler ID:

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

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

Reported: 07/11/05 08:18

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0506261-01		Client Sample Name: 1871, MW-11, MW-11, 6/23/2005 8:57:00AM, Melissa											
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	0.12	EPA-8260	06/30/05	06/30/05 15:48	MWB	MS-V10	1	BOG0035	ND	
Ethylbenzene	ND	ug/L	0.50	0.13	EPA-8260	06/30/05	06/30/05 15:48	MWB	MS-V10	1	BOG0035	ND	
Methyl t-butyl ether	ND	ug/L	0.50	0.15	EPA-8260	06/30/05	06/30/05 15:48	MWB	MS-V10	1	BOG0035	ND	
Toluene	ND	ug/L	0.50	0.15	EPA-8260	06/30/05	06/30/05 15:48	MWB	MS-V10	1	BOG0035	ND	
Total Xylenes	ND	ug/L	1.0	0.40	EPA-8260	06/30/05	06/30/05 15:48	MWB	MS-V10	1	BOG0035	ND	
Ethanol	ND	ug/L	1000	110	EPA-8260	06/30/05	06/30/05 15:48	MWB	MS-V10	1	BOG0035	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	23	EPA-8260	06/30/05	06/30/05 15:48	MWB	MS-V10	1	BOG0035	ND	
1,2-Dichloroethane-d4 (Surrogate)	98.8	%	76 - 114 (LCL - UCL)		EPA-8260	06/30/05	06/30/05 15:48	MWB	MS-V10	1	BOG0035		
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)		EPA-8260	06/30/05	06/30/05 15:48	MWB	MS-V10	1	BOG0035		
4-Bromofluorobenzene (Surrogate)	96.7	%	86 - 115 (LCL - UCL)		EPA-8260	06/30/05	06/30/05 15:48	MWB	MS-V10	1	BOG0035		



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

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

Reported: 07/11/05 08:18

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0506261-02		Client Sample Name: 1871, MW-10, MW-10, 6/23/2005 9:09:00AM, Melissa											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50	0.12	EPA-8260	06/30/05	06/30/05 16:11	MWB	MS-V10	1	BOG0035	ND	
Ethylbenzene	ND	ug/L	0.50	0.13	EPA-8260	06/30/05	06/30/05 16:11	MWB	MS-V10	1	BOG0035	ND	
Methyl t-butyl ether	ND	ug/L	0.50	0.15	EPA-8260	06/30/05	06/30/05 16:11	MWB	MS-V10	1	BOG0035	ND	
Toluene	ND	ug/L	0.50	0.15	EPA-8260	06/30/05	06/30/05 16:11	MWB	MS-V10	1	BOG0035	ND	
Total Xylenes	ND	ug/L	1.0	0.40	EPA-8260	06/30/05	06/30/05 16:11	MWB	MS-V10	1	BOG0035	ND	
Ethanol	ND	ug/L	1000	110	EPA-8260	06/30/05	06/30/05 16:11	MWB	MS-V10	1	BOG0035	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	23	EPA-8260	06/30/05	06/30/05 16:11	MWB	MS-V10	1	BOG0035	ND	
1,2-Dichloroethane-d4 (Surrogate)	103	%	76 - 114 (LCL - UCL)		EPA-8260	06/30/05	06/30/05 16:11	MWB	MS-V10	1	BOG0035		
Toluene-d8 (Surrogate)	98.6	%	88 - 110 (LCL - UCL)		EPA-8260	06/30/05	06/30/05 16:11	MWB	MS-V10	1	BOG0035		
4-Bromofluorobenzene (Surrogate)	96.0	%	86 - 115 (LCL - UCL)		EPA-8260	06/30/05	06/30/05 16:11	MWB	MS-V10	1	BOG0035		

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

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

Reported: 07/11/05 08:18

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0506261-03	Client Sample Name: 1871, MW-9, MW-9, 6/23/2005 9:19:00AM, Melissa
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	Prep	Run	Analyst	Instru- ment ID	Dilution	QC	MB	Lab
						Date	Date/Time				Batch ID	Bias	Quals
Benzene	ND	ug/L	5.0	1.2	EPA-8260	06/30/05	06/30/05 17:21	MWB	MS-V10	10	BOG0035	ND	A01
Ethylbenzene	ND	ug/L	5.0	1.3	EPA-8260	06/30/05	06/30/05 17:21	MWB	MS-V10	10	BOG0035	ND	A01
Methyl t-butyl ether	2000	ug/L	25	7.5	EPA-8260	06/30/05	06/30/05 14:37	MWB	MS-V10	50	BOG0035	ND	A01
Toluene	ND	ug/L	5.0	1.5	EPA-8260	06/30/05	06/30/05 17:21	MWB	MS-V10	10	BOG0035	ND	A01
Total Xylenes	ND	ug/L	10	4.0	EPA-8260	06/30/05	06/30/05 17:21	MWB	MS-V10	10	BOG0035	ND	A01
Ethanol	ND	ug/L	10000	1100	EPA-8260	06/30/05	06/30/05 17:21	MWB	MS-V10	10	BOG0035	ND	A01
Total Purgeable Petroleum Hydrocarbons	1500	ug/L	500	230	EPA-8260	06/30/05	06/30/05 17:21	MWB	MS-V10	10	BOG0035	ND	A01, A53
1,2-Dichloroethane-d4 (Surrogate)	98.7	%	76 - 114 (LCL - UCL)		EPA-8260	06/30/05	06/30/05 17:21	MWB	MS-V10	10	BOG0035		
1,2-Dichloroethane-d4 (Surrogate)	101	%	76 - 114 (LCL - UCL)		EPA-8260	06/30/05	06/30/05 14:37	MWB	MS-V10	50	BOG0035		
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)		EPA-8260	06/30/05	06/30/05 17:21	MWB	MS-V10	10	BOG0035		
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)		EPA-8260	06/30/05	06/30/05 14:37	MWB	MS-V10	50	BOG0035		
4-Bromofluorobenzene (Surrogate)	92.7	%	86 - 115 (LCL - UCL)		EPA-8260	06/30/05	06/30/05 14:37	MWB	MS-V10	50	BOG0035		
4-Bromofluorobenzene (Surrogate)	97.1	%	86 - 115 (LCL - UCL)		EPA-8260	06/30/05	06/30/05 17:21	MWB	MS-V10	10	BOG0035		



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

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

Reported: 07/11/05 08:18

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0506261-04 Client Sample Name: 1871, MW-7, MW-7, 6/23/2005 9:26:00AM, Melissa

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	25	6.0	EPA-8260	06/30/05	06/30/05 15:01	MWB	MS-V10	50	BOG0035	ND	A01
Ethylbenzene	ND	ug/L	25	6.5	EPA-8260	06/30/05	06/30/05 15:01	MWB	MS-V10	50	BOG0035	ND	A01
Methyl t-butyl ether	12000	ug/L	120	38	EPA-8260	06/30/05	06/30/05 17:44	MWB	MS-V10	250	BOG0035	ND	A01
Toluene	ND	ug/L	25	7.5	EPA-8260	06/30/05	06/30/05 15:01	MWB	MS-V10	50	BOG0035	ND	A01
Total Xylenes	ND	ug/L	50	20	EPA-8260	06/30/05	06/30/05 15:01	MWB	MS-V10	50	BOG0035	ND	A01
Ethanol	ND	ug/L	50000	5500	EPA-8260	06/30/05	06/30/05 15:01	MWB	MS-V10	50	BOG0035	ND	A01
Total Purgeable Petroleum Hydrocarbons	8700	ug/L	2500	1200	EPA-8260	06/30/05	06/30/05 15:01	MWB	MS-V10	50	BOG0035	ND	A01, A53
1,2-Dichloroethane-d4 (Surrogate)	99.0	%	76 - 114 (LCL - UCL)		EPA-8260	06/30/05	06/30/05 17:44	MWB	MS-V10	250	BOG0035		
1,2-Dichloroethane-d4 (Surrogate)	99.5	%	76 - 114 (LCL - UCL)		EPA-8260	06/30/05	06/30/05 15:01	MWB	MS-V10	50	BOG0035		
Toluene-d8 (Surrogate)	102	%	88 - 110 (LCL - UCL)		EPA-8260	06/30/05	06/30/05 17:44	MWB	MS-V10	250	BOG0035		
Toluene-d8 (Surrogate)	99.5	%	88 - 110 (LCL - UCL)		EPA-8260	06/30/05	06/30/05 15:01	MWB	MS-V10	50	BOG0035		
4-Bromofluorobenzene (Surrogate)	97.9	%	86 - 115 (LCL - UCL)		EPA-8260	06/30/05	06/30/05 17:44	MWB	MS-V10	250	BOG0035		
4-Bromofluorobenzene (Surrogate)	95.7	%	86 - 115 (LCL - UCL)		EPA-8260	06/30/05	06/30/05 15:01	MWB	MS-V10	50	BOG0035		

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

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

Reported: 07/11/05 08:18

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0506261-05		Client Sample Name: 1871, MW-6, MW-6, 6/23/2005 9:35:00AM, Melissa											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	0.52	ug/L	0.50	0.12	EPA-8260	06/30/05	06/30/05 16:34	MWB	MS-V10	1	BOG0035	ND	
Ethylbenzene	3.6	ug/L	0.50	0.13	EPA-8260	06/30/05	06/30/05 16:34	MWB	MS-V10	1	BOG0035	ND	
Methyl t-butyl ether	200	ug/L	5.0	1.5	EPA-8260	06/30/05	07/01/05 10:11	MWB	MS-V10	10	BOG0035	ND	A01
Toluene	ND	ug/L	0.50	0.15	EPA-8260	06/30/05	06/30/05 16:34	MWB	MS-V10	1	BOG0035	ND	
Total Xylenes	9.6	ug/L	1.0	0.40	EPA-8260	06/30/05	06/30/05 16:34	MWB	MS-V10	1	BOG0035	ND	
Ethanol	ND	ug/L	1000	110	EPA-8260	06/30/05	06/30/05 16:34	MWB	MS-V10	1	BOG0035	ND	
Total Purgeable Petroleum Hydrocarbons	230	ug/L	50	23	EPA-8260	06/30/05	06/30/05 16:34	MWB	MS-V10	1	BOG0035	ND	
1,2-Dichloroethane-d4 (Surrogate)	101	%	76 - 114 (LCL - UCL)		EPA-8260	06/30/05	06/30/05 16:34	MWB	MS-V10	1	BOG0035		
1,2-Dichloroethane-d4 (Surrogate)	97.8	%	76 - 114 (LCL - UCL)		EPA-8260	06/30/05	07/01/05 10:11	MWB	MS-V10	10	BOG0035		
Toluene-d8 (Surrogate)	102	%	88 - 110 (LCL - UCL)		EPA-8260	06/30/05	06/30/05 16:34	MWB	MS-V10	1	BOG0035		
Toluene-d8 (Surrogate)	97.5	%	88 - 110 (LCL - UCL)		EPA-8260	06/30/05	07/01/05 10:11	MWB	MS-V10	10	BOG0035		
4-Bromofluorobenzene (Surrogate)	104	%	86 - 115 (LCL - UCL)		EPA-8260	06/30/05	06/30/05 16:34	MWB	MS-V10	1	BOG0035		
4-Bromofluorobenzene (Surrogate)	98.0	%	86 - 115 (LCL - UCL)		EPA-8260	06/30/05	07/01/05 10:11	MWB	MS-V10	10	BOG0035		



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

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

Reported: 07/11/05 08:18

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0506261-06 Client Sample Name: 1871, MW-8, MW-8, 6/23/2005 9:42:00AM, Melissa

Constituent	Result	Units	PQL	MDL	Method	Prep	Run	Analyst	Instru- ment ID	Dilution	QC	MB	Lab
						Date	Date/Time				Batch ID	Bias	Quats
Benzene	ND	ug/L	0.50	0.12	EPA-8260	06/30/05	06/30/05 16:57	MWB	MS-V10	1	BOG0035	ND	
Ethylbenzene	1.5	ug/L	0.50	0.13	EPA-8260	06/30/05	06/30/05 16:57	MWB	MS-V10	1	BOG0035	ND	
Methyl t-butyl ether	980	ug/L	25	7.5	EPA-8260	06/30/05	07/01/05 10:34	MWB	MS-V10	50	BOG0035	ND	A01
Toluene	ND	ug/L	0.50	0.15	EPA-8260	06/30/05	06/30/05 16:57	MWB	MS-V10	1	BOG0035	ND	
Total Xylenes	ND	ug/L	1.0	0.40	EPA-8260	06/30/05	06/30/05 16:57	MWB	MS-V10	1	BOG0035	ND	
Ethanol	ND	ug/L	1000	110	EPA-8260	06/30/05	06/30/05 16:57	MWB	MS-V10	1	BOG0035	ND	
Total Purgeable Petroleum Hydrocarbons	490	ug/L	50	23	EPA-8260	06/30/05	06/30/05 16:57	MWB	MS-V10	1	BOG0035	ND	
1,2-Dichloroethane-d4 (Surrogate)	98.1	%	76 - 114 (LCL - UCL)		EPA-8260	06/30/05	06/30/05 16:57	MWB	MS-V10	1	BOG0035		
1,2-Dichloroethane-d4 (Surrogate)	95.4	%	76 - 114 (LCL - UCL)		EPA-8260	06/30/05	07/01/05 10:34	MWB	MS-V10	50	BOG0035		
Toluene-d8 (Surrogate)	101	%	88 - 110 (LCL - UCL)		EPA-8260	06/30/05	06/30/05 16:57	MWB	MS-V10	1	BOG0035		
Toluene-d8 (Surrogate)	96.4	%	88 - 110 (LCL - UCL)		EPA-8260	06/30/05	07/01/05 10:34	MWB	MS-V10	50	BOG0035		
4-Bromofluorobenzene (Surrogate)	93.4	%	86 - 115 (LCL - UCL)		EPA-8260	06/30/05	07/01/05 10:34	MWB	MS-V10	50	BOG0035		
4-Bromofluorobenzene (Surrogate)	101	%	86 - 115 (LCL - UCL)		EPA-8260	06/30/05	06/30/05 16:57	MWB	MS-V10	1	BOG0035		



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

Reported: 07/11/05 08:18

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0506261-07 Client Sample Name: 1871, MW-1, MW-1, 6/23/2005 9:49:00AM, Melissa

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	140	ug/L	25	6.0	EPA-8260	06/30/05	06/30/05 15:24	MWB	MS-V10	50	BOG0035	ND	A01
Ethylbenzene	1100	ug/L	25	6.5	EPA-8260	06/30/05	06/30/05 15:24	MWB	MS-V10	50	BOG0035	ND	A01
Methyl t-butyl ether	600	ug/L	25	7.5	EPA-8260	06/30/05	06/30/05 15:24	MWB	MS-V10	50	BOG0035	ND	A01
Toluene	ND	ug/L	25	7.5	EPA-8260	06/30/05	06/30/05 15:24	MWB	MS-V10	50	BOG0035	ND	A01
Total Xylenes	2900	ug/L	50	20	EPA-8260	06/30/05	06/30/05 15:24	MWB	MS-V10	50	BOG0035	ND	A01
Ethanol	ND	ug/L	50000	5500	EPA-8260	06/30/05	06/30/05 15:24	MWB	MS-V10	50	BOG0035	ND	A01
Total Purgeable Petroleum Hydrocarbons	24000	ug/L	2500	1200	EPA-8260	06/30/05	06/30/05 15:24	MWB	MS-V10	50	BOG0035	ND	A01
1,2-Dichloroethane-d4 (Surrogate)	101	%	76 - 114 (LCL - UCL)		EPA-8260	06/30/05	06/30/05 15:24	MWB	MS-V10	50	BOG0035		
Toluene-d8 (Surrogate)	101	%	88 - 110 (LCL - UCL)		EPA-8260	06/30/05	06/30/05 15:24	MWB	MS-V10	50	BOG0035		
4-Bromofluorobenzene (Surrogate)	104	%	86 - 115 (LCL - UCL)		EPA-8260	06/30/05	06/30/05 15:24	MWB	MS-V10	50	BOG0035		



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

Reported: 07/11/05 08:18

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

Constituent	Batch ID	QC Sample ID	QC Sample Type	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits	
										RPD	Percent Recovery Lab Quals
Benzene	BOG0035	BOG0035-MS1	Matrix Spike	ND	25.380	25.000	ug/L		102		70 - 130
		BOG0035-MSD1	Matrix Spike Duplicate	ND	24.990	25.000	ug/L	1.98	100	20	70 - 130
Toluene	BOG0035	BOG0035-MS1	Matrix Spike	ND	25.850	25.000	ug/L		103		70 - 130
		BOG0035-MSD1	Matrix Spike Duplicate	ND	25.960	25.000	ug/L	0.966	104	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	BOG0035	BOG0035-MS1	Matrix Spike	ND	9.8800	10.000	ug/L		98.8		76 - 114
		BOG0035-MSD1	Matrix Spike Duplicate	ND	10.050	10.000	ug/L		100		76 - 114
Toluene-d8 (Surrogate)	BOG0035	BOG0035-MS1	Matrix Spike	ND	10.050	10.000	ug/L		100		88 - 110
		BOG0035-MSD1	Matrix Spike Duplicate	ND	10.140	10.000	ug/L		101		88 - 110
4-Bromofluorobenzene (Surrogate)	BOG0035	BOG0035-MS1	Matrix Spike	ND	9.7400	10.000	ug/L		97.4		86 - 115
		BOG0035-MSD1	Matrix Spike Duplicate	ND	9.9900	10.000	ug/L		99.9		86 - 115



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

Reported: 07/11/05 08:18

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	Control Limits			Lab Quals
								Percent Recovery	RPD	Percent Recovery RPD	
Benzene	BOG0035	BOG0035-BS1	LCS	25.760	25.000	0.50	ug/L	103		70 - 130	
Toluene	BOG0035	BOG0035-BS1	LCS	25.380	25.000	0.50	ug/L	102		70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	BOG0035	BOG0035-BS1	LCS	9.8800	10.000		ug/L	98.8		76 - 114	
Toluene-d8 (Surrogate)	BOG0035	BOG0035-BS1	LCS	9.7200	10.000		ug/L	97.2		88 - 110	
4-Bromofluorobenzene (Surrogate)	BOG0035	BOG0035-BS1	LCS	9.7300	10.000		ug/L	97.3		86 - 115	



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

Reported: 07/11/05 08:18

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	BOG0035	BOG0035-BLK1	ND	ug/L	0.50	0.12	
Ethylbenzene	BOG0035	BOG0035-BLK1	ND	ug/L	0.50	0.13	
Methyl t-butyl ether	BOG0035	BOG0035-BLK1	ND	ug/L	0.50	0.15	
Toluene	BOG0035	BOG0035-BLK1	ND	ug/L	0.50	0.15	
Total Xylenes	BOG0035	BOG0035-BLK1	ND	ug/L	1.0	0.40	
Ethanol	BOG0035	BOG0035-BLK1	ND	ug/L	1000	110	
Total Purgeable Petroleum Hydrocarbons	BOG0035	BOG0035-BLK1	ND	ug/L	50	23	
1,2-Dichloroethane-d4 (Surrogate)	BOG0035	BOG0035-BLK1	104	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BOG0035	BOG0035-BLK1	98.5	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BOG0035	BOG0035-BLK1	97.9	%	86 - 115 (LCL - UCL)		



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

Reported: 07/11/05 08:18

Notes and Definitions

- A53 Chromatogram not typical of gasoline.
- 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

Submission #: 05-6261

Project Code:

TB Batch #

SHIPPING INFORMATION

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

SHIPPING CONTAINER

Ice Chest None
Box Other (Specify)

Refrigerant: Ice Blue Ice None Other Comments:

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

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

COC Received
 YES NO

Ice Chest ID R1w
Temperature: 5.3 °C
Thermometer ID: 48

Emissivity .93
Container QTA

Date/Time 6/24/05
Analyst Init NVI

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

Comments:

Sample Numbering Completed By: NVI

Date/Time: 6/24/05 18:14

Chain of Custody Form

PLEASE COMPLETE:
BCL QUOTE ID: _____

47070

Page 1 of 1

Report To: TRC	Project #: 41050001
Attn: Anju Farfan	Project Name: Conce Phillips
Street Address: 21 Technology Drive	Project Code: 1871
City, State, Zip: Irvine, Ca 92618	Sampler(s): Melissa
Phone: 949-341-7440 Fax: 949-753-0111	Global ID# TO600101493
Email Address: afarfan@trcsolutions.com	
Submittal #: OS-6261	

Analysis Requested

TPHP by 8260B
 BTX/MTBE/EH₄ by 9260B

Please refer to the back of this page for completion instructions and method legend.

Comments:

Sample #	Description	Date Sampled	Time Sampled					Turnaround # of work days*	Notes
1	MW-11	06/23/05	0857	X	X			57d	3 vials w/HCL
-2	MW-10		0909						
-3	MW-9		0919						
-4	MW-7		0926						
-5	MW-6		0935						
-6	MW-8		0942						
-7	MW-1		0949						

Sample Matrix		Turnaround # of work days*	Are there any tests with holding times less than or equal to 48 hours?
Soil	Other		<input type="checkbox"/> Yes <input type="checkbox"/> No
Sludge	Drinking Water		* Standard Turnaround = 15 work days
Ground Water	Waste Water		

CHK BY: **DISTRIBUTION**
 [Signature] [Signature]
 SUB-OUT

Billing	<input checked="" type="checkbox"/> Same as above	Report Drinking Waters on State Form? <input type="checkbox"/> Yes <input type="checkbox"/> No	Sample Disposal <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by lab <input type="checkbox"/> Archive: Months _____	Special Reporting <input type="checkbox"/> QC <input type="checkbox"/> WIP <input type="checkbox"/> Raw Data
Client: _____	City: _____ State _____ Zip _____	Send Copy to State of CA? <input type="checkbox"/> Yes <input type="checkbox"/> No	1. Relinquished By: [Signature] Date: 06-23-05 Time: 1200	1. Received By: [Signature] Date: 6/24/05 Time: 1155
Address: _____			2. Relinquished By: [Signature] Date: 6/24/05 Time: 1420	2. Received By: [Signature] Date: 6/24/05 Time: 1420
Attn: _____			3. Relinquished By: [Signature] Date: 6/24/05 Time: 1730	3. Received By: [Signature] Date: 6/24/05 Time: 17:31
PO#: _____				

STATEMENTS

Purge Water Disposal

Non-hazardous groundwater produced during purging and sampling of monitoring was accumulated at TRC's groundwater monitoring facility at Concord, California, for transportation by Onyx Transportation, Inc., to the ConocoPhillips Refinery at Rodeo, California. Disposal at the Rodeo facility was authorized by ConocoPhillips in accordance with "ESD Standard Operating Procedures - Water Quality and Compliance", as revised on February 7, 2003. Documentation of compliance with ConocoPhillips requirements is provided by an ESD Form R-149, which is on file at TRC's Concord Office. Purge water containing a significant amount of liquid-phase hydrocarbons was accumulated separately in drums for transportation and disposal by Filter Recycling, Inc.

Limitations

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