



Customer-Focused Solutions

June 18, 2004

TRC Project No. 42014301

Eva Chu
Alameda County Health Services
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

RE: Quarterly Status Report - First Quarter 2004
76 Service Station #3292, 15008 East 14th Street, San Leandro, California
Alameda County

Dear Ms. Chu:

On behalf of ConocoPhillips Company (ConocoPhillips), TRC is submitting the First Quarter 2004 Status Report for the subject site, shown in the attached Figure 3.

PREVIOUS ASSESSMENTS

The site is currently an operating 76 service station located at the eastern corner of East 14th Street and 150th Avenue in San Leandro, California.

January 1991: Two gasoline-containing underground storage tanks (UST)s and one waste oil-containing UST were removed from the site. Holes were observed in one gasoline UST. Groundwater was encountered in the gasoline UST excavation. Approximately 15,700 gallons of water were pumped from the former gasoline UST pit, and then one groundwater sample was collected for laboratory analyses. The groundwater sample collected from the former gasoline UST excavation contained 13,000 parts per billion (ppb) total petroleum hydrocarbons (TPH-g) and 64 ppb benzene. The confirmation soil samples contained maximum concentrations of 2,600 parts per million (ppm) TPH-g and 7.1 ppm benzene.

February 1991: Product piping was replaced. Confirmation soil samples contained low levels of petroleum hydrocarbons.

April 1991: Five onsite groundwater monitoring wells were installed.

May and August 1992: Six offsite groundwater monitoring wells were installed.

May 1995: An the oil/water separator (OWS) was abandoned.

May 1998: Two onsite and two offsite soil borings were advanced to approximately 12 feet below ground surface (bgs). Garb groundwater samples were collected and submitted for analysis.

May 2003: A Risk-Based Corrective Action analysis was performed for the site and case closure was requested.

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

SENSITIVE RECEPTORS

A domestic well is located 1,500 feet from the site. The nearest surface waters are Estudillo Canal, located approximately 2,800 feet south.

MONITORING AND SAMPLING

The groundwater monitoring wells have been monitored and sampled on a quarterly basis since May 1991. The groundwater flow direction beneath the site has been consistently to the south to southwest.

Currently, thirteen wells are gauged quarterly, five wells are sampled quarterly, five wells are sampled semiannually in the second and fourth quarters, and three wells are not sampled. Twelve wells were gauged and five wells were sampled this quarter. The groundwater gradient and flow direction were 0.009 foot/foot to the southwest.

CHARACTERIZATION STATUS

Total purgeable petroleum hydrocarbons (TPPH) were detected in the five sampled wells, with a maximum concentration of 8,200 µg/l in onsite well MW-1.

Benzene was detected in one of the five sampled wells, at a concentration of 4.1 µg/l in offsite well MW-10.

Methyl tertiary butyl ether (MTBE) was detected in two of the five sampled wells, with a maximum concentration of 170 µg/l in offsite well MW-11.

REMEDIATION STATUS

Remediation is not currently being conducted at the site.

RECENT CORRESPONDENCE

No correspondence this quarter.

CURRENT QUARTER ACTIVITIES

February 17, 2004: 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.

NEXT QUARTER ACTIVITIES

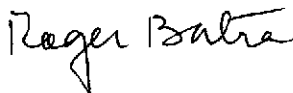
Await agency directives for additional assessment work, if any.

Continue quarterly monitoring and sampling of scheduled monitoring wells to assess plume stability and concentration trends at key wells.


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

Sincerely,

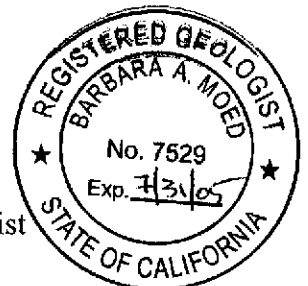
TRC



Roger Batra
Senior Project Manager



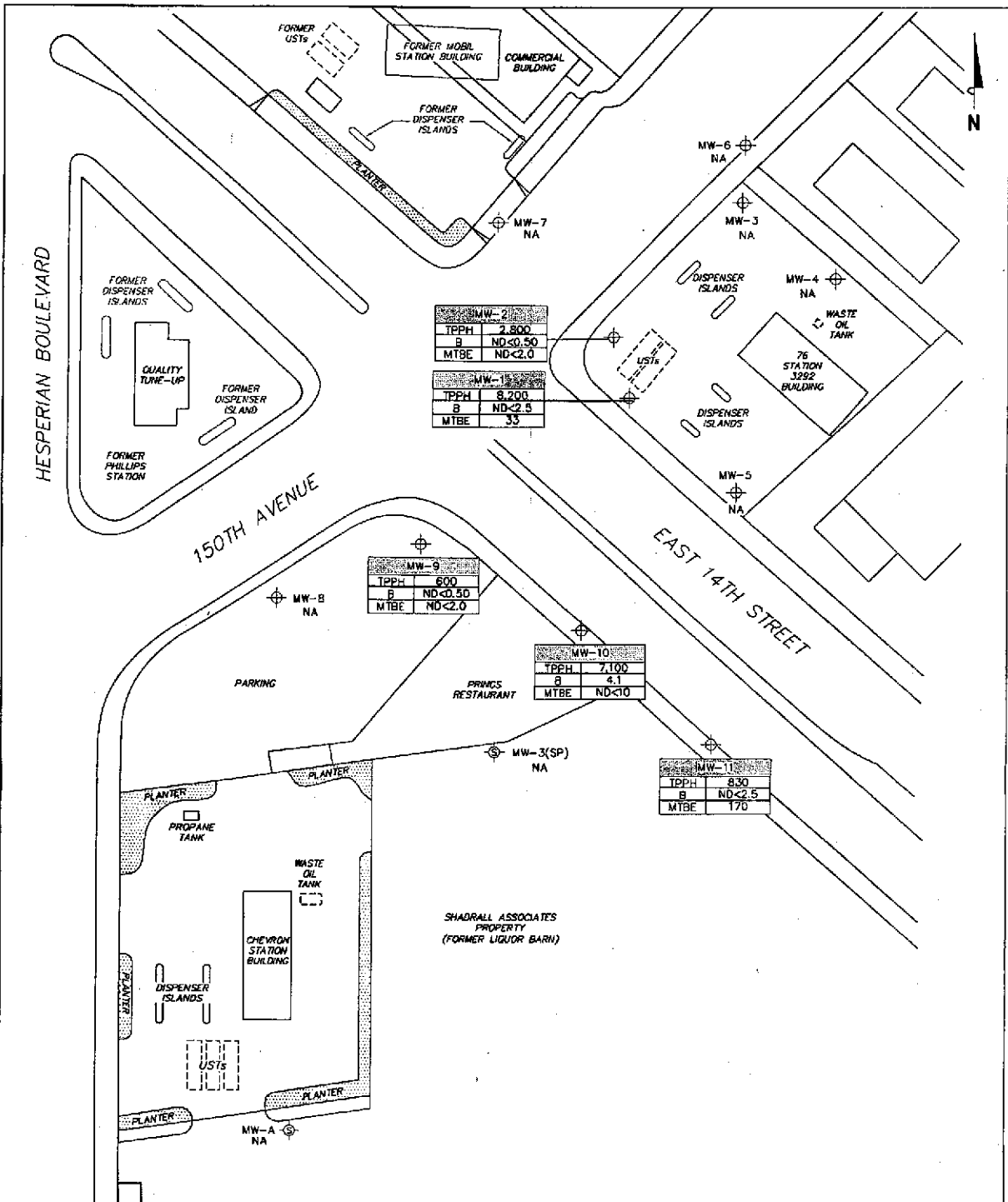
Barbara Moed, R.G.
Senior Project Geologist



Attachments:

Figure 3 – Dissolved-Phase Hydrocarbon Concentrations Map, February 17, 2004 from First Quarter 2004 Fluid Level Monitoring and Sampling Report, dated April 12, 2004 by TRC.

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

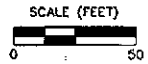


NOTES:

TPPH = total purgeable petroleum hydrocarbons.
 B = benzene. MTBE = methyl tertiary butyl ether. $\mu\text{g/l}$ = micrograms per liter. ND = not detected at limit indicated on official laboratory report. NA = not analyzed, measured, or collected. UST = underground storage tank. Results obtained using EPA Method 8260B.

LEGEND

Well No. [Symbol]	Monitoring Well or Shadrall Monitoring Well with Dissolved-Phase Hydrocarbon Concentrations ($\mu\text{g/l}$)
TPPH $\mu\text{g/l}$	
B $\mu\text{g/l}$	
MTBE $\mu\text{g/l}$	



DISSOLVED-PHASE HYDROCARBON CONCENTRATIONS MAP
 February 17, 2004

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

FIGURE 3

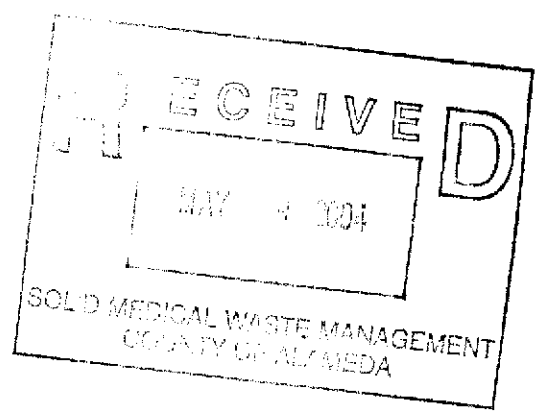


TRC

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April 12, 2004

ConocoPhillips Company
76 Broadway
Sacramento, CA 95818



ATTN: MR. THOMAS H. KOSEL
SITE: 76 STATION 3292
15008 EAST 14TH STREET
SAN LEANDRO, CALIFORNIA

RE: QUARTERLY MONITORING REPORT
JANUARY THROUGH MARCH 2004

Dear Mr. Kosel:

Please find enclosed our Quarterly Monitoring Report for 76 Station 3292, located at 15008 East 14th Street, San Leandro, California. If you have any questions regarding this report, please call us at (949) 753-0101.

Sincerely,

TRC

A handwritten signature in cursive script that reads "Anju Farfan".

Anju Farfan
QMS Operations Manager

CC: Ms. Eva Chu, Alameda County Health Care Services
Barbara Moed, TRC

Enclosures
20-0400/3292RO2.QMS



GROUNDWATER MONITORING REPORT

LIST OF ATTACHMENTS	
Summary Sheet	Summary of Gauging and Sampling Activities
Tables	Table Key Table 1: Summary of Groundwater Levels and Chemical Analysis Results Table 2: Historic Groundwater Levels and Chemical Analysis Results Table 3: Summary of Additional Chemical Analysis Results
Figures	Figure 1: Vicinity Map Figure 2: Groundwater Elevation Contour Map Figure 3: Dissolved-Phase Hydrocarbon Concentration Map
Graphs	Benzene Concentrations vs. Time Hydrographs
Field Activities	General Field Procedures Groundwater Sampling Field Notes
Laboratory Reports	Official Laboratory Reports Quality Control Reports Chain of Custody Records
Statements	Purge Water Transport and Disposal Limitations

**Summary of Gauging and Sampling Activities
January 2004 through March 2004
76 Station 3292
15008 East 14th Street
San Leandro, CA**

Site Information:

Site:	76 Station 15008 East 14th Street San Leandro, CA
Project Coordinator/Phone Number:	Thomas H. Kosel/916-558-7666
Groundwater wells onsite:	7
Groundwater wells offsite:	6

Field Activity:

Sampling consultant:	TRC
Date(s) sampled:	2/17/04
Groundwater wells gauged:	12
Groundwater wells sampled:	5
Purging method:	diaphragm pump
Treatment/disposal method during sampling event:	Onyx/Rodeo Unit 100
Free product pumpouts other than sampling event:	No
Treatment/Disposal method during free product pumpouts:	N/A

Site Hydrogeology:

Minimum depth to groundwater (feet bgs):	8.38
Maximum depth to groundwater (feet bgs):	10.95
Average groundwater elevation (feet relative to mean sea level):	26.54
Average change in groundwater elevations since previous event (feet):	1.38
Groundwater gradient and flow direction:	0.009 ft/ft, southwest
Previous gradient and/or flow direction (and date):	0.003 ft/ft, southwest (11/13/03)

Groundwater Condition (Benzene Maximum Contaminant Level [MCL] = 1.0 µg/l)

Wells with benzene concentrations below MCL:	4
Wells with benzene concentrations at or above MCL:	1
Minimum benzene concentration (µg/l):	ND
Maximum benzene concentration (µg/l):	4.1 (MW-10)
Minimum MTBE concentration (µg/l):	ND
Maximum MTBE concentration (µg/l):	170 (MW-11)
Minimum TPPH concentration (µg/l):	600
Maximum TPPH concentration (µg/l):	8200 (MW-1)
Groundwater wells with free product:	0
Minimum free product thickness (feet):	0
Maximum free product thickness (feet):	0

Additional Information:

MW-2(SP)=Monitored Only, MW-3=Monitored Only, MW-3(SP)=Monitored Only, MW-4=Monitored Only, MW-5=Monitored Only, MW-6=Monitored Only, MW-7=Monitored Only, MW-8=Covered with asphalt,

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.



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**FIRST QUARTER 2004
FLUID LEVEL MONITORING AND
GROUNDWATER SAMPLING REPORT**

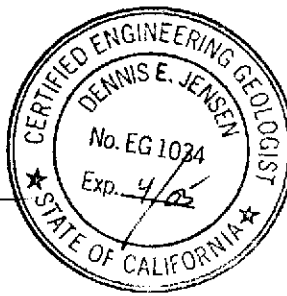
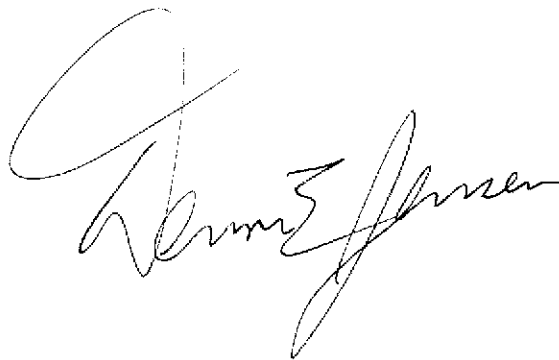
April 12, 2004

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

Prepared For:

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

By:



Senior Project Geologist, Irvine Operations

TABLES

TABLE KEY

ABBREVIATIONS / SYMBOLS

LPH	=	liquid-phase hydrocarbons
µg/l	=	micrograms per liter
mg/l	=	milligrams per liter
ND	=	not detected at or above laboratory detection limit
DTSC	=	Department of Toxic Substances Control
N/A	=	not applicable
Trace	=	less than 0.01 foot of LPH in well
USTs	=	underground storage tanks
--	=	not analyzed, measured, or collected
TPH-G	=	total petroleum hydrocarbons with gasoline distinction
BTEX	=	benzene, toluene, ethylbenzene, and total xylenes
TPH-D	=	total petroleum hydrocarbons with diesel distinction
TRPH	=	total recoverable petroleum hydrocarbons
MTBE	=	methyl tertiary butyl ether
TAME	=	tertiary amyl methyl ether
ETBE	=	ethyl tertiary butyl ether
DIPE	=	di-isopropyl ether
TBA	=	tertiary butyl alcohol
1,1-DCA	=	1,1-Dichloroethane
1,2-DCA	=	1,2-Dichloroethane
1,1-DCE	=	1,1-Dichloroethene
1,2-DCE	=	cis- and trans-1,2-Dichloroethene
PCE	=	tetrachloroethene
TCA	=	trichloroethane
TCE	=	trichloroethene
PCB	=	polychlorinated biphenyls
TPPH	=	total purgeable petroleum hydrocarbons

NOTES

Elevations are in feet above mean sea level.

Groundwater elevation for wells with LPH is calculated as follows:

$$\text{Surface elevation} - \text{depth to water} + (0.75 \times \text{LPH thickness}).$$

Concentration Graphs have been modified to plot non-detect results at the reporting limit stated in the official laboratory report. All non-detect results prior to the Second Quarter 2000 were plotted at 0.1 µg/l for graphical display.

J = estimated concentration, value is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL)

REFERENCE

TRC began groundwater monitoring and sampling activities in October 2003. Historical data for 76 Station 3292 was provided by Gettler-Ryan Inc., Dublin, California, in an excel table received in September 2003.

Table 1
SUMMARY OF GROUNDWATER LEVELS AND CHEMICAL ANALYSIS RESULTS
February 17, 2004
76 Station 3292

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPPH 8260B (µg/l)	TPH-G (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(SP)		(Screen Interval in feet: 11.0-21.0)												
2/17/2004	35.44	9.79	0.00	25.65	--	--	--	--	--	--	--	--	--	Monitored Only
MW-3(SP)		(Screen Interval in feet: 11.0-21.0)												
2/17/2004	35.82	9.54	0.00	26.28	--	--	--	--	--	--	--	--	--	Monitored Only
MW-1		(Screen Interval in feet: 7.0-19.0)												
2/17/2004	36.34	9.35	0.00	26.99	1.86	8200	--	ND<2.5	ND<2.5	84	ND<5.0	--	33	
MW-2		(Screen Interval in feet: 7.0-19.5)												
2/17/2004	36.30	9.17	0.00	27.13	1.89	2800	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
MW-3		(Screen Interval in feet: 7.0-22.5)												
2/17/2004	36.42	9.17	0.00	27.25	--	--	--	--	--	--	--	--	--	Monitored Only
MW-4		(Screen Interval in feet: 7.0-19.5)												
2/17/2004	37.04	9.84	0.00	27.20	--	--	--	--	--	--	--	--	--	Monitored Only
MW-5		(Screen Interval in feet: 7.0-22.5)												
2/17/2004	35.92	8.96	0.00	26.96	1.86	--	--	--	--	--	--	--	--	Monitored Only
MW-6		(Screen Interval in feet: 8.0-20.0)												
2/17/2004	35.68	8.38	0.00	27.30	--	--	--	--	--	--	--	--	--	Monitored Only
MW-7		(Screen Interval in feet: 11.0-21.5)												
2/17/2004	36.06	10.13	0.00	25.93	0.69	--	--	--	--	--	--	--	--	Monitored Only
MW-8		(Screen Interval in feet: 8.0-19.0)												
2/17/2004	36.87	--	--	--	--	--	--	--	--	--	--	--	--	Covered with asphalt
MW-9		(Screen Interval in feet: 8.0-19.0)												
2/17/2004	36.27	9.89	0.00	26.38	1.52	600	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
MW-10		(Screen Interval in feet: 8.0-20.0)												
2/17/2004	36.02	10.95	0.00	25.07	0.25	7100	--	4.1	ND<2.5	3.8	ND<5.0	--	ND<10	
MW-11		(Screen Interval in feet: 7.0-19.0)												

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground- water Elevation (feet)	Change in Elevation (feet)	TPPH 8260B (µg/l)	TPH-G (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-11 continued 2/17/2004	35.50	9.19	0.00	26.31	1.60	830	--	ND<2.5	ND<2.5	3.8	ND<5.0	--	170	

Table 2
HISTORIC GROUNDWATER LEVELS AND CHEMICAL ANALYSIS RESULTS
August 2003 Through February 2004

76 Station 3292														Comments
Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPPH 8260B	TPH-G	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE 8021B	MTBE 8260B	
	(feet)	(feet)	(feet)	(feet)	(feet)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
MW-2(SP) (Screen Interval in feet: 11.0-21.0)														
8/11/2003	35.44	10.87	0.00	24.57	--	--	--	--	--	--	--	--	--	Monitored Only
11/13/2003	35.44	--	--	--	--	--	--	--	--	--	--	--	--	Covered with asphalt
2/17/2004	35.44	9.79	0.00	25.65	--	--	--	--	--	--	--	--	--	Monitored Only
MW-3(SP) (Screen Interval in feet: 11.0-21.0)														
8/11/2003	35.82	11.26	0.00	24.56	--	--	--	--	--	--	--	--	--	Monitored Only
11/13/2003	35.82	--	--	--	--	--	--	--	--	--	--	--	--	Covered with asphalt
2/17/2004	35.82	9.54	0.00	26.28	--	--	--	--	--	--	--	--	--	Monitored Only
MW-1 (Screen Interval in feet: 7.0-19.0)														
8/11/2003	36.34	10.37	0.00	25.97	--	2900	--	ND<0.50	ND<0.50	4.4	ND<1.0	--	17	
11/13/2003	36.34	11.21	0.00	25.13	-0.84	8100	--	ND<5.0	ND<5.0	45	ND<10	--	82	
2/17/2004	36.34	9.35	0.00	26.99	1.86	8200	--	ND<2.5	ND<2.5	84	ND<5.0	--	33	
MW-2 (Screen Interval in feet: 7.0-19.5)														
8/11/2003	36.30	10.51	0.00	25.79	--	2200	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
11/13/2003	36.30	11.06	0.00	25.24	-0.55	1100	--	1.2	0.68	0.78	2.6	--	ND<2.0	
2/17/2004	36.30	9.17	0.00	27.13	1.89	2800	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
MW-3 (Screen Interval in feet: 7.0-22.5)														
8/11/2003	36.42	10.64	0.00	25.78	--	--	--	--	--	--	--	--	--	
11/13/2003	36.42	--	--	--	--	--	--	--	--	--	--	--	--	Covered with asphalt
2/17/2004	36.42	9.17	0.00	27.25	--	--	--	--	--	--	--	--	--	Monitored Only
MW-4 (Screen Interval in feet: 7.0-19.5)														
8/11/2003	37.04	10.83	0.00	26.21	--	--	--	--	--	--	--	--	--	
11/13/2003	37.04	--	--	--	--	--	--	--	--	--	--	--	--	Covered with asphalt
2/17/2004	37.04	9.84	0.00	27.20	--	--	--	--	--	--	--	--	--	Monitored Only
MW-5 (Screen Interval in feet: 7.0-22.5)														
8/11/2003	35.92	10.52	0.00	25.40	--	--	--	--	--	--	--	--	--	Monitored Only

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPPH 8260B (µg/l)	TPH-G (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														
11/13/2003	35.92	10.82	0.00	25.10	-0.30	31000	--	ND<20	ND<20	2100	71	--	ND<80	
2/17/2004	35.92	8.96	0.00	26.96	1.86	--	--	--	--	--	--	--	--	Monitored Only
MW-6 (Screen Interval in feet: 8.0-20.0)														
8/11/2003	35.68	9.44	0.00	26.24	--	--	--	--	--	--	--	--	--	
11/13/2003	35.68	--	--	--	--	--	--	--	--	--	--	--	--	Covered with asphalt
2/17/2004	35.68	8.38	0.00	27.30	--	--	--	--	--	--	--	--	--	Monitored Only
MW-7 (Screen Interval in feet: 11.0-21.5)														
8/11/2003	36.06	10.27	0.00	25.79	--	--	--	--	--	--	--	--	--	Monitored Only
11/13/2003	36.06	10.82	0.00	25.24	-0.55	20000	--	10	ND<10	1600	740	--	ND<40	
2/17/2004	36.06	10.13	0.00	25.93	0.69	--	--	--	--	--	--	--	--	Monitored Only
MW-8 (Screen Interval in feet: 8.0-19.0)														
8/11/2003	36.87	11.33	0.00	25.54	--	--	--	--	--	--	--	--	--	Monitored Only
11/13/2003	36.87	--	--	--	--	--	--	--	--	--	--	--	--	Covered with asphalt
2/17/2004	36.87	--	--	--	--	--	--	--	--	--	--	--	--	Covered with asphalt
MW-9 (Screen Interval in feet: 8.0-19.0)														
8/11/2003	36.27	11.18	0.00	25.09	--	170	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
11/13/2003	36.27	11.41	0.00	24.86	-0.23	400	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
2/17/2004	36.27	9.89	0.00	26.38	1.52	600	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
MW-10 (Screen Interval in feet: 8.0-20.0)														
8/11/2003	36.02	11.25	0.00	24.77	--	3100	--	1.9	ND<0.50	1.0	1.0	--	4.0	
11/13/2003	36.02	11.20	0.00	24.82	0.05	7300	--	ND<25	ND<25	ND<25	ND<50	--	ND<100	
2/17/2004	36.02	10.95	0.00	25.07	0.25	7100	--	4.1	ND<2.5	3.8	ND<5.0	--	ND<10	
MW-11 (Screen Interval in feet: 7.0-19.0)														
8/11/2003	35.50	11.04	0.00	24.46	--	930	--	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	320	
11/13/2003	35.50	10.79	0.00	24.71	0.25	1300	--	ND<2.5	ND<2.5	5.0	ND<5.0	--	300	
2/17/2004	35.50	9.19	0.00	26.31	1.60	830	--	ND<2.5	ND<2.5	3.8	ND<5.0	--	170	

Table 3
SUMMARY OF ADDITIONAL CHEMICAL ANALYSIS RESULTS
76 Station 3292

Date Sampled	EDC	1,2-DCB	EDB	TAME 8260B	TBA 8260B	DIPE 8260B	ETBE 8260B	Ethanol 8260B
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
MW-2(SP) 8/11/2003	--							
MW-3(SP) 8/11/2003	--							
MW-1 8/11/2003	--							ND<500
11/13/2003	--	--	--	--	--	--	--	ND<5000
2/17/2004	--	--	--	--	--	--	--	ND<2500
MW-2 8/11/2003	--							ND<500
11/13/2003	--	--	--	--	--	--	--	ND<500
2/17/2004	--	--	--	--	--	--	--	ND<500
MW-3 8/11/2003	--							
MW-4 8/11/2003	--							
MW-5 8/11/2003	--							
11/13/2003	--	--	--	--	--	--	--	ND<20000
MW-6 8/11/2003	--							
MW-7 8/11/2003	--							
11/13/2003	--	--	--	--	--	--	--	ND<10000
MW-8								

Date Sampled	EDC (µg/l)	1,2-DCB (µg/l)	EDB (µg/l)	TAME 8260B (µg/l)	TBA 8260B (µg/l)	DIPE 8260B (µg/l)	ETBE 8260B (µg/l)	Ethanol 8260B (µg/l)
MW-8 continued								
8/11/2003	--							
MW-9								
8/11/2003	--							ND<500
11/13/2003	--	--	--	--	--	--	--	ND<500
2/17/2004	--	--	--	--	--	--	--	ND<500
MW-10								
8/11/2003	--							ND<500
11/13/2003	--	--	--	--	--	--	--	ND<25000
2/17/2004	--	--	--	--	--	--	--	ND<2500
MW-11								
8/11/2003	--	ND<10	ND<10	ND<10	ND<500	ND<10	ND<10	ND<2500
11/13/2003	--	--	--	--	--	--	--	ND<2500
2/17/2004	ND<10	--	ND<10	ND<10	ND<500	ND<10	ND<10	ND<2500

FIGURES



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



SCALE 1:24,000



VICINITY MAP

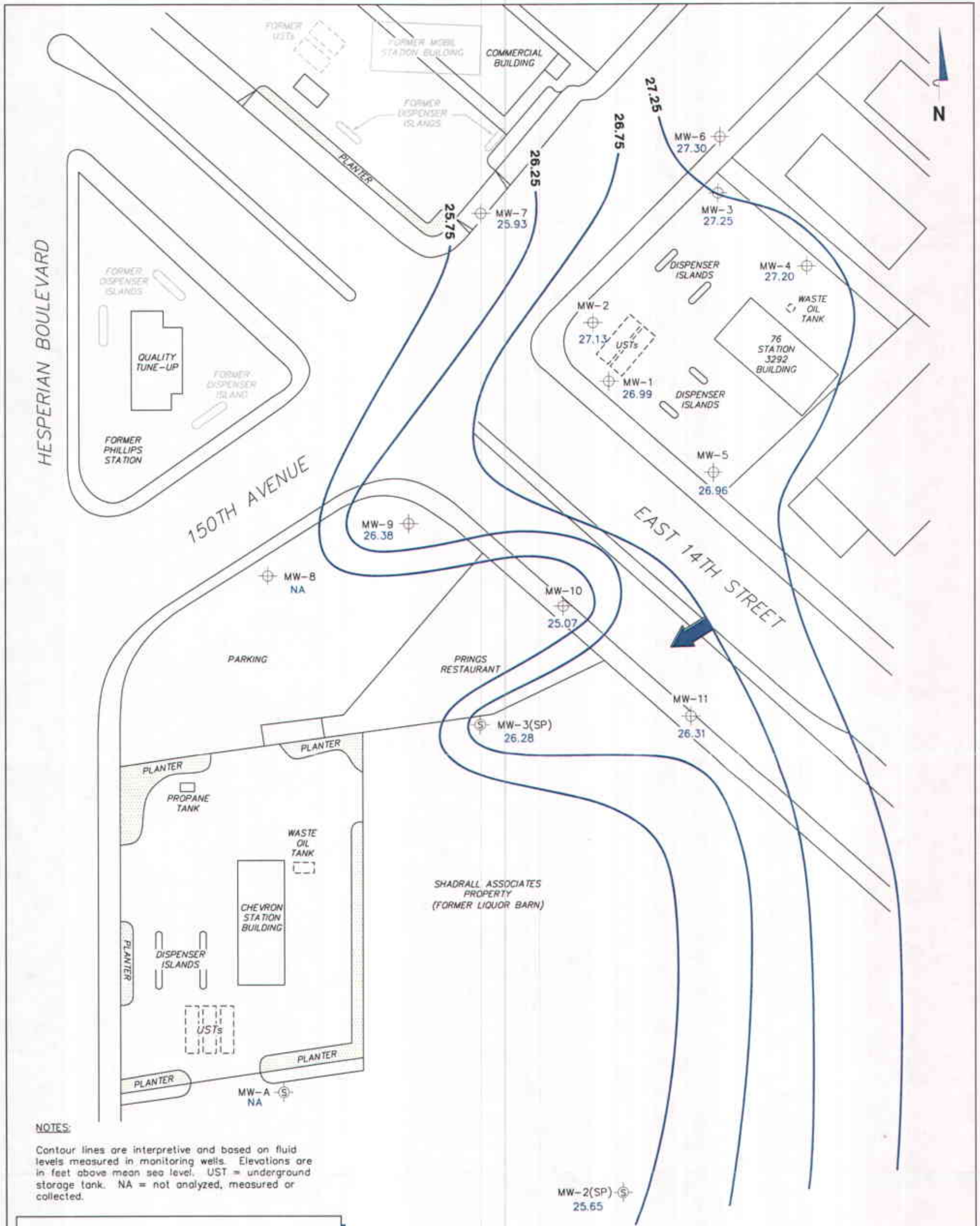
76 Station 3292
15008 East 14th Street
San Leandro, California

SOURCE:

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

TRC

FIGURE 1



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. NA = not analyzed, measured or collected.

LEGEND

- MW-10 ⊕ Monitoring Well with Groundwater Elevation (feet)
- MW-3(SP) ⊕ Shadrall Monitoring Well with Groundwater Elevation (feet)
- 27.25 — Groundwater Elevation Contour
- ➔ General Direction of Groundwater Flow

GROUNDWATER ELEVATION CONTOUR MAP
 February 17, 2004

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

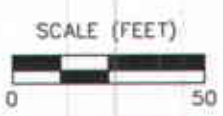
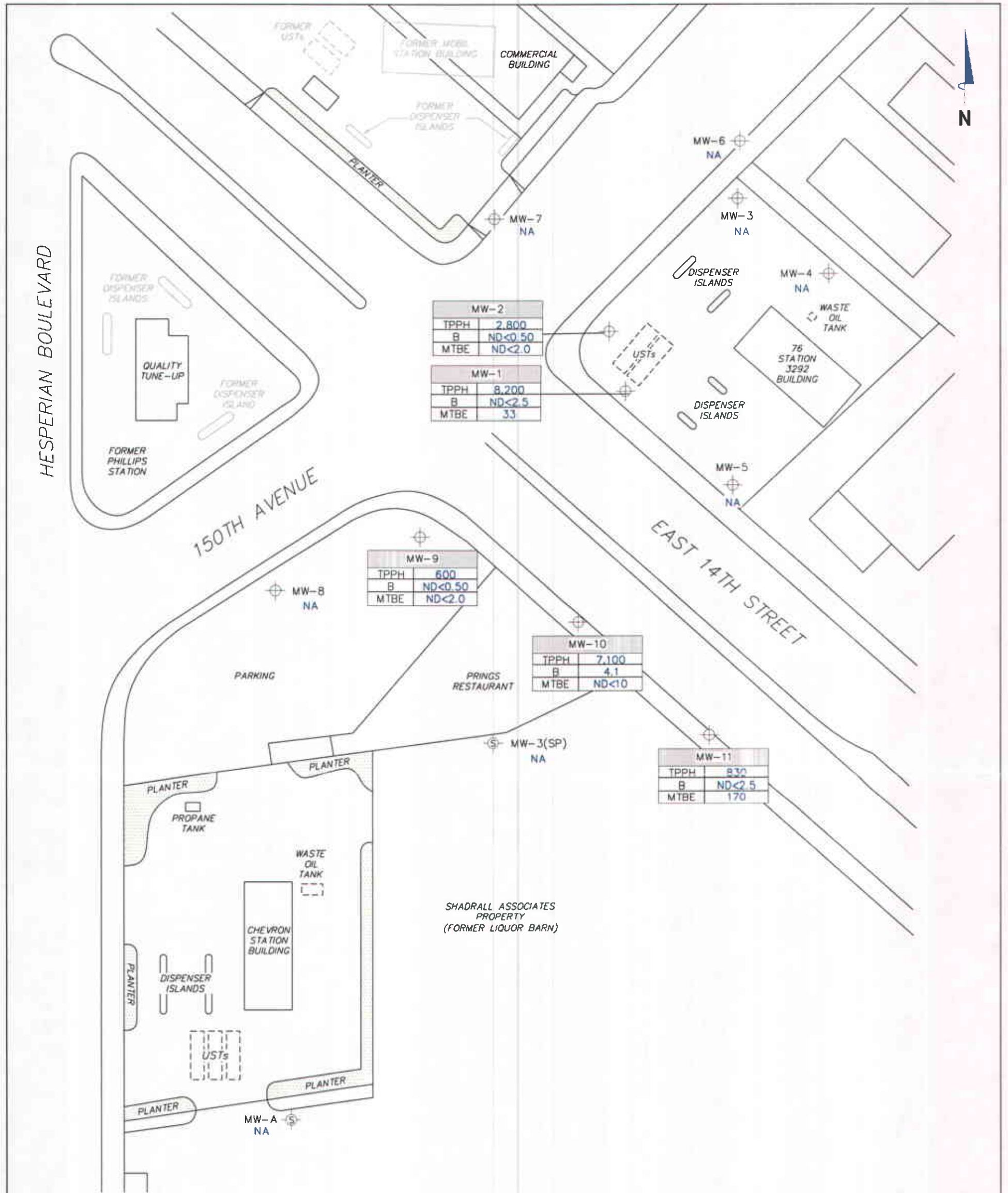


FIGURE 2



MW-2	
TPPH	2,800
B	ND<0.50
MTBE	ND<2.0

MW-1	
TPPH	8,200
B	ND<2.5
MTBE	33

MW-9	
TPPH	600
B	ND<0.50
MTBE	ND<2.0

MW-10	
TPPH	7,100
B	4.1
MTBE	ND<1.0

MW-11	
TPPH	830
B	ND<2.5
MTBE	170

NOTES:

TPPH = total purgeable petroleum hydrocarbons.
 B = benzene. MTBE = methyl tertiary butyl ether. $\mu\text{g/l}$ = micrograms per liter. ND = not detected at limit indicated on official laboratory report. NA = not analyzed, measured, or collected. UST = underground storage tank. Results obtained using EPA Method 8260B.

LEGEND

Well No.	
TPPH	$\mu\text{g/l}$
B	$\mu\text{g/l}$
MTBE	$\mu\text{g/l}$

Monitoring Well or Shadrall Monitoring Well with Dissolved-Phase Hydrocarbon Concentrations ($\mu\text{g/l}$)

DISSOLVED-PHASE HYDROCARBON CONCENTRATIONS MAP
 February 17, 2004

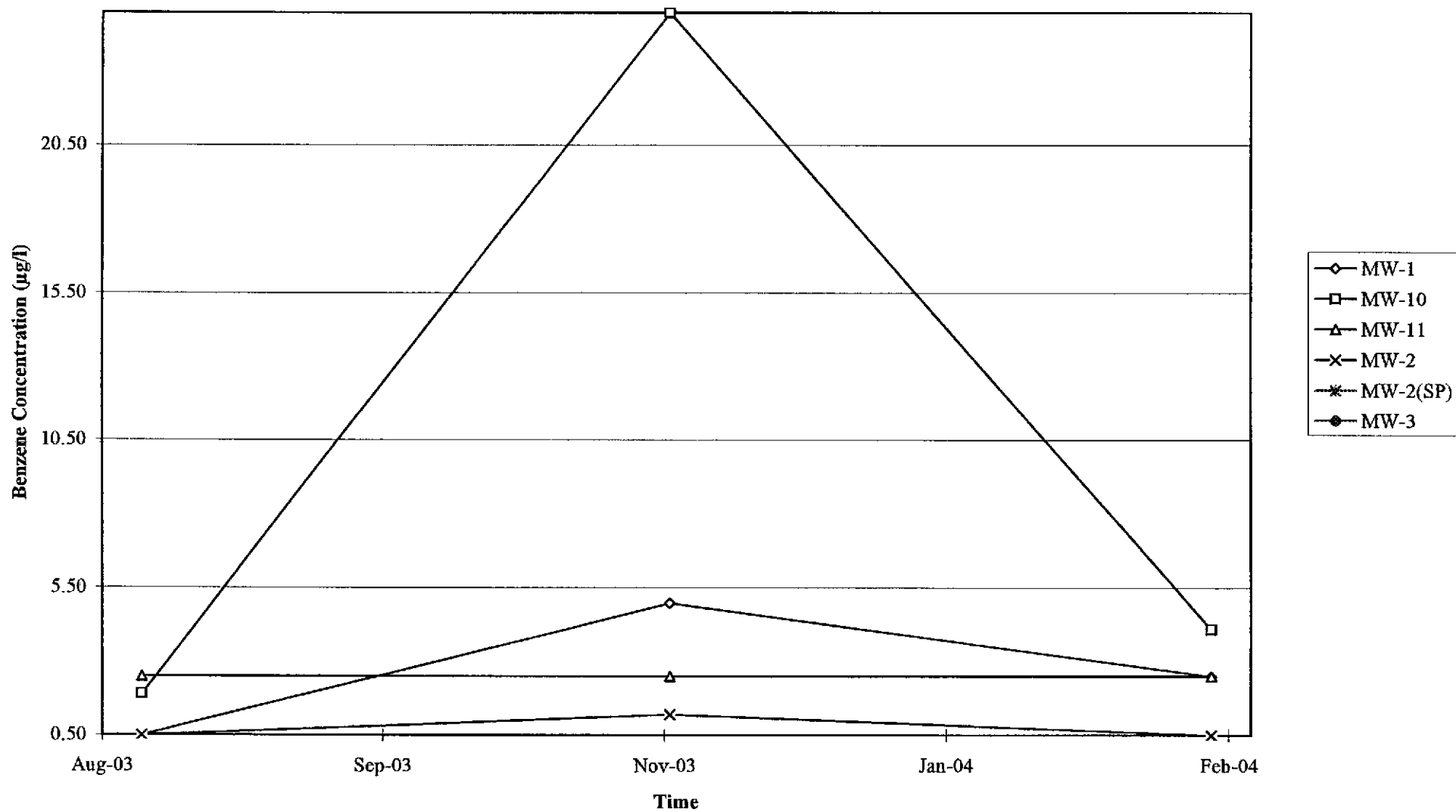
76 Station 3292
 15008 East 14th Street
 San Leandro, California



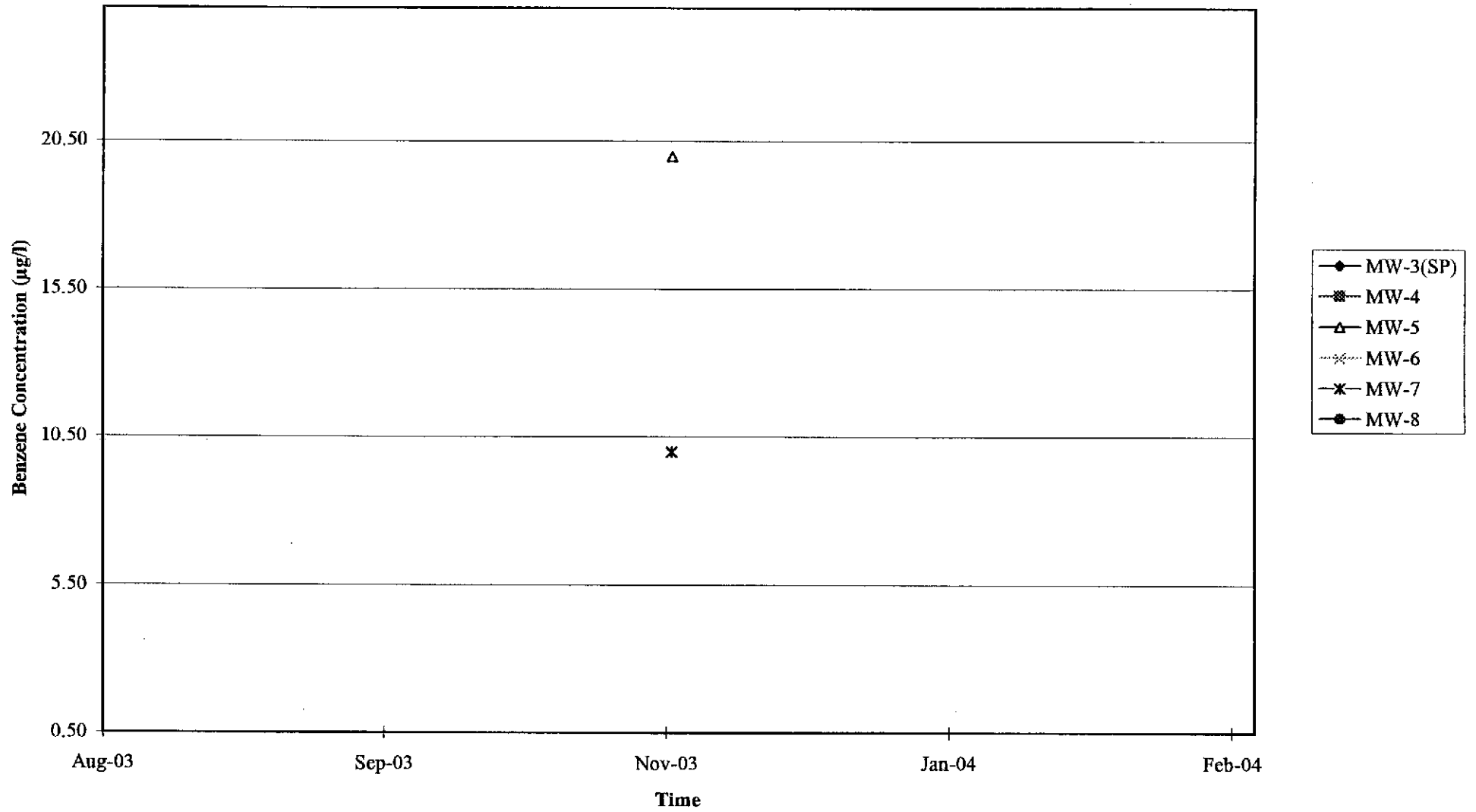
FIGURE 3

GRAPHS

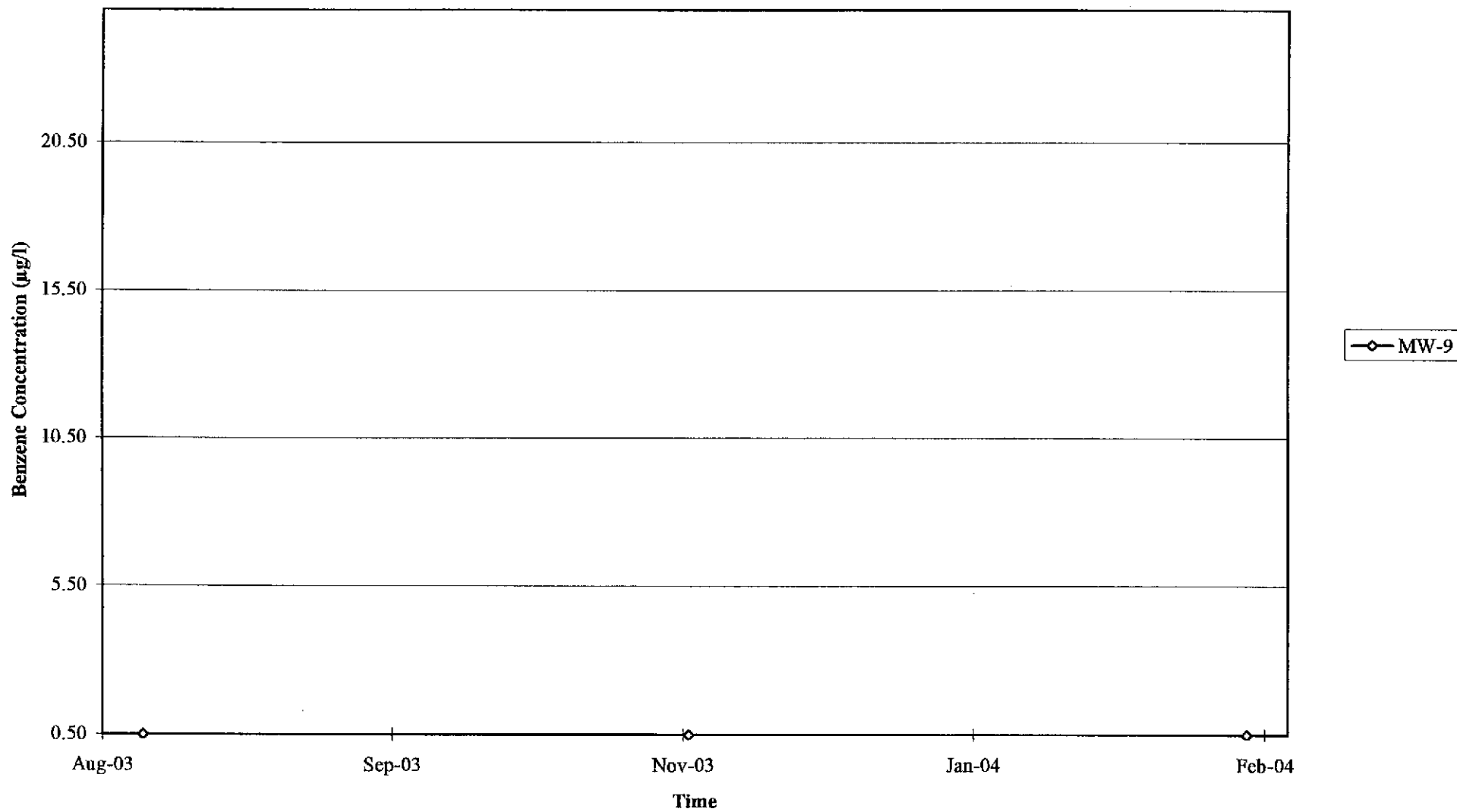
Graph 1
Benzene Concentrations vs. Time
76 Station 3292



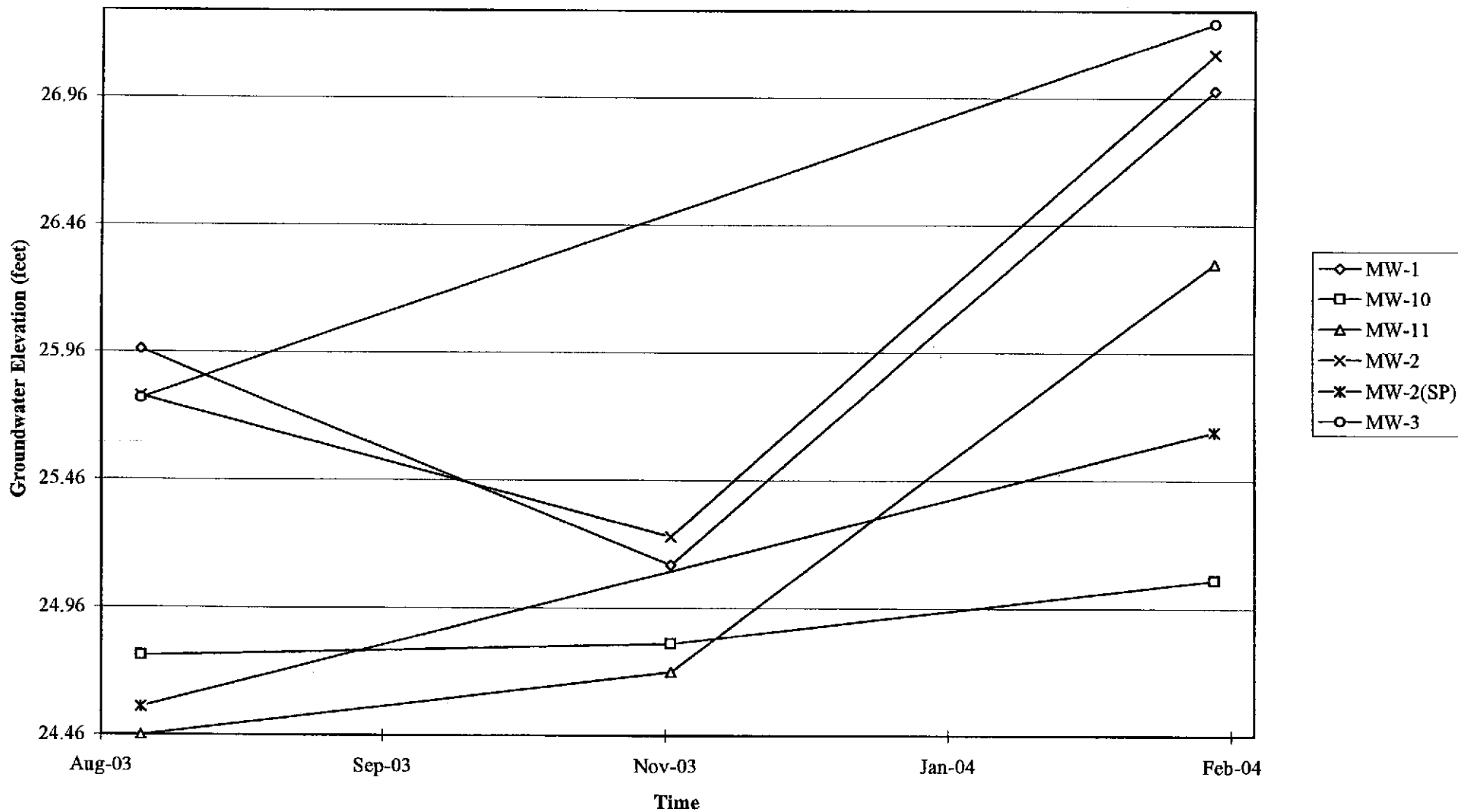
Graph 2
Benzene Concentrations vs. Time
76 Station 3292



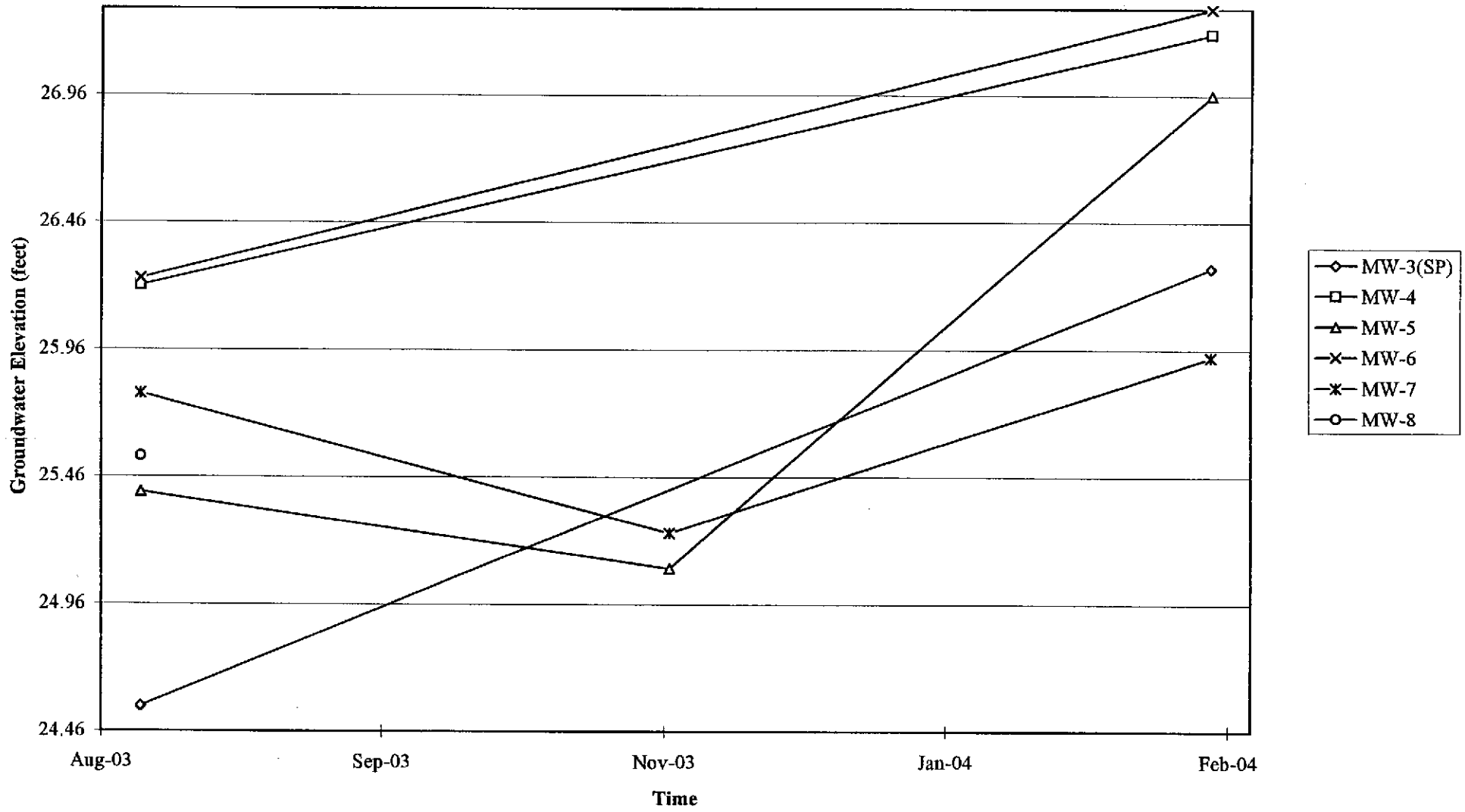
Graph 3
Benzene Concentrations vs. Time
76 Station 3292



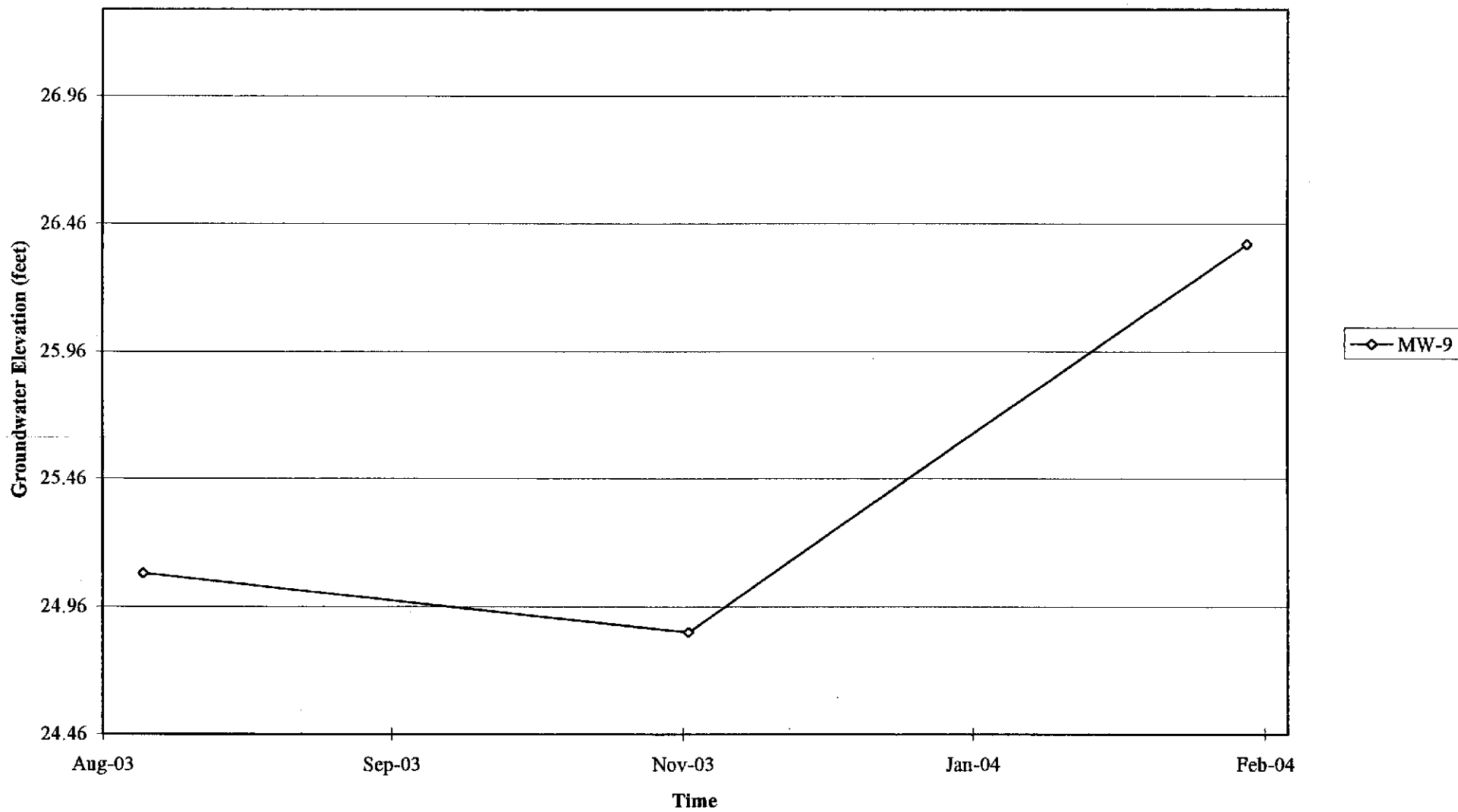
Graph 4
Hydrograph
76 Station 3292



Graph 5
Hydrograph
76 Station 3292



Graph 6
Hydrograph
76 Station 3292



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: Max/David Job #/Task #: 91050001/FAZO Date: 2/17/04
 Site # 3292 Project Manager Kathie Page 1 of 1

Well #	Grade	TOC	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
MU-1		✓	18.90	9.35	0.17	Ø	1333	2"
MU-2		✓	19.02	9.17	0.18	Ø	1347	2"
MU-9		✓	19.03	9.89	0.29	Ø	1250	2"
MU-10		✓	19.81	10.95	0.26	Ø	1309	2"
MU-11		✓	18.93	9.19	0.29	Ø	1401	2"
MU-4		✓	19.55	9.84	0.09	-	-	2"
MU-3		✓	22.05	9.17	0.30	-	-	2"
MU-5		✓	22.07	8.96	0.29	-	-	2"
MU-6		✓	20.17	8.38	3.00	-	-	2" Street well
MU-7		✓	21.14	10.13	0.32	-	-	2"
MU-8		✓	-	-	-	-	-	Paved Over
MU-3(SP)		✓	20.49	9.54	0.18	-	-	2"
MU-2(SP)		✓	20.74	9.79	0.18	-	-	2"
FIELD DATA COMPLETE			QA/QC	COC		WELL BOX CONDITION SHEETS		
WTT CERTIFICATE		MANIFEST		DRUM INVENTORY		TRAFFIC CONTROL		

GROUNDWATER SAMPLING FIELD NOTES

Technician: Max/Devic

Site: 3292

Project No.: 41050001

Date: 2/17/09

Well No.: MU-1

Purge Method: D/A

Depth to Water (feet): 9.35

Depth to Product (feet): 0

Total Depth (feet): 10.90

LPH & Water Recovered (gallons): 0

Water Column (feet): 9.55

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 11.26

1 Well Volume (gallons): 2

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F/C)	pH	Turbidity	Pre-Purge D.O.
1327			2	631	18.9	7.08	—	0.17
			4	632	19.2	6.99		
	1330		6	636	19.1	6.87		
Static at Time Sampled			Total Gallons Purged		Time Sampled			
11.19			6		1333			
Comments:								

Well No.: MU-2

Purge Method: D/A

Depth to Water (feet): 9.17

Depth to Product (feet): 0

Total Depth (feet): 19.02

LPH & Water Recovered (gallons): 0

Water Column (feet): 9.85

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 11.14

1 Well Volume (gallons): 2

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F/C)	pH	Turbidity	Pre-Purge D.O.
1342			2	582	19.6	6.95	—	0.18
			4	603	20.4	6.91		
	1345		6	605	21.0	6.87		
Static at Time Sampled			Total Gallons Purged		Time Sampled			
9.42			6		1347			
Comments:								

GROUNDWATER SAMPLING FIELD NOTES

Technician: Max/Devior

Site: 3292

Project No.: 41050001

Date: 2/17/04

Well No.: MW-9

Purge Method: DIA

Depth to Water (feet): 9.89

Depth to Product (feet): 0

Total Depth (feet): 19.03

LPH & Water Recovered (gallons): 0

Water Column (feet): 9.14

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 11.72

1 Well Volume (gallons): 1

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temperature (F.C)	pH	Turbidity	Pre-purge D.O.
1241			1	846	20.3	6.42	—	0.29
			2	813	20.3	6.73		
	1245		3	803	20.3	6.83		
Static at Time Sampled			Total Gallons Purged			Time Sampled		
11.12			3			1250		
Comments: .								

Well No.: MW-10

Purge Method: DIA

Depth to Water (feet): 10.95

Depth to Product (feet): 0

Total Depth (feet): 15.81

LPH & Water Recovered (gallons): 0

Water Column (feet): 8.86

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 12.72

1 Well Volume (gallons): 1

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temperature (F.C)	pH	Turbidity	Pre-purge D.O.
1300			1	762	20.3	6.84		0.26
			2	764	20.5	6.82		
	1303		3	768	20.7	6.79		
Static at Time Sampled			Total Gallons Purged			Time Sampled		
11.40			3			1305		
Comments:								

GROUNDWATER SAMPLING FIELD NOTES

Technician: Max/Dev.01

Site: 3292

Project No.: 41050001

Date: 2/17/04

Well No.: MW-11

Purge Method: DIA

Depth to Water (feet): 7.19

Depth to Product (feet): 0

Total Depth (feet): 18.93

LPH & Water Recovered (gallons): 0

Water Column (feet): 9.74

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 11.14

1 Well Volume (gallons): 2

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F.C)	pH	Turbidity	Pre-purge D.O.
1312			2	760	20.3	6.89		0.29
			4	753	20.4	6.99		
	1315		6	748	20.6	7.01		
Static at Time Sampled			Total Gallons Purged		Time Sampled			
9.18			6		1401			
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:								

STATEMENT OF NON-COMPLETION OF JOB

DATE OF EVENT: 2/17/04 STATION NUMBER: 3292

NAME OF TECH: Max/David CALLED GORDON: _____

CALLED PM: _____ NAME OF PM CALLED: _____

WELL NUMBER: MW-8 STATEMENT FROM PM _____ OR TECH X

Unable to locate well, has been proved
over (E-mailed Barbara Moed 2/21)

WELL NUMBER: _____ STATEMENT FROM PM _____ OR TECH _____

WELL NUMBER: _____ STATEMENT FROM PM _____ OR TECH _____

WELL NUMBER: _____ STATEMENT FROM PM _____ OR TECH _____

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

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

Project: 41050001FA20

Conoco Phillips # 3292

Received: 02/18/2004 11:10

Site: 15008 East 14st., San Leandro

Legend and Notes

Analysis Flag

o

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

Result Flag

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

sl

Surrogate recoveries were lower than QC limit due to matrix interference, confirmed by reanalysis.

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

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

Project: 41050001FA20

Conoco Phillips # 3292

Received: 02/18/2004 11:10

Site: 15008 East 14st., San Leandro

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike

Water

QC Batch # 2004/02/27-2C.64

LCS 2004/02/27-2C.64-028

Extracted: 02/27/2004

Analyzed: 02/27/2004 18:28

LCSD 2004/02/27-2C.64-034

Extracted: 02/27/2004

Analyzed: 02/27/2004 19:34

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	26.0	25.3	25	104.0	101.2	2.7	65-165	20		
Benzene	27.3	26.7	25	109.2	106.8	2.2	69-129	20		
Toluene	28.6	27.7	25	114.4	110.8	3.2	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	414	406	500	82.8	81.2		76-114			
Toluene-d8	490	481	500	98.0	96.2		88-110			

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

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

Project: 41050001FA20

Conoco Phillips # 3292

Received: 02/18/2004 11:10

Site: 15008 East 14st., San Leandro

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike

Water

QC Batch # 2004/02/25-1D.64

LCS 2004/02/25-1D.64-039

Extracted: 02/25/2004

Analyzed: 02/25/2004 17:39

LCSD 2004/02/25-1D.64-060

Extracted: 02/25/2004

Analyzed: 02/25/2004 18:01

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	19.1	20.7	25	76.4	82.8	8.0	65-165	20		
Benzene	18.7	22.0	25	74.8	88.0	16.2	69-129	20		
Toluene	22.1	23.9	25	88.4	95.6	7.8	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	387	402	500	77.4	80.4		76-114			
Toluene-d8	463	466	500	92.6	93.2		88-110			

Severn Trent Laboratories, Inc.

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

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

03/02/2004 16:14

Page 11 of 13

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

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

Project: 41050001FA20

Conoco Phillips # 3292

Received: 02/18/2004 11:10

Site: 15008 East 14st., San Leandro

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike

Water

QC Batch # 2004/02/24-2B.66

LCS 2004/02/24-2B.66-022

Extracted: 02/24/2004

Analyzed: 02/24/2004 18:22

LCSD 2004/02/24-2B.66-046

Extracted: 02/24/2004

Analyzed: 02/24/2004 18:46

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	23.8	23.3	25	95.2	93.2	2.1	65-165	20		
Benzene	23.8	23.0	25	95.2	92.0	3.4	69-129	20		
Toluene	22.4	23.1	25	89.6	92.4	3.1	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	486	465	500	97.2	93.0		76-114			
Toluene-d8	513	484	500	102.6	96.8		88-110			

Severn Trent Laboratories, Inc.

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

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

03/02/2004 16:14

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

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

Project: 41050001FA20

Conoco Phillips # 3292

Received: 02/18/2004 11:10

Site: 15008 East 14st., San Leandro

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2004/02/27-2C.64-012

Water

Test(s): 8260FAB

QC Batch # 2004/02/27-2C.64

Date Extracted: 02/27/2004 19:12

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	02/27/2004 19:12	
tert-Butyl alcohol (TBA)	ND	100	ug/L	02/27/2004 19:12	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	02/27/2004 19:12	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	02/27/2004 19:12	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	02/27/2004 19:12	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	02/27/2004 19:12	
1,2-DCA	ND	2.0	ug/L	02/27/2004 19:12	
EDB	ND	2.0	ug/L	02/27/2004 19:12	
Benzene	ND	0.5	ug/L	02/27/2004 19:12	
Toluene	ND	0.5	ug/L	02/27/2004 19:12	
Ethylbenzene	ND	0.5	ug/L	02/27/2004 19:12	
Total xylenes	ND	1.0	ug/L	02/27/2004 19:12	
Ethanol	ND	500	ug/L	02/27/2004 19:12	
Surrogates(s)					
1,2-Dichloroethane-d4	83.2	76-114	%	02/27/2004 19:12	
Toluene-d8	97.0	88-110	%	02/27/2004 19:12	

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

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

Project: 41050001FA20

Conoco Phillips # 3292

Received: 02/18/2004 11:10

Site: 15008 East 14st., San Leandro

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2004/02/25-1D.64-001

Water

Test(s): 8260FAB

QC Batch # 2004/02/25-1D.64

Date Extracted: 02/25/2004 19:01

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	02/25/2004 19:01	
tert-Butyl alcohol (TBA)	ND	100	ug/L	02/25/2004 19:01	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	02/25/2004 19:01	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	02/25/2004 19:01	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	02/25/2004 19:01	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	02/25/2004 19:01	
1,2-DCA	ND	2.0	ug/L	02/25/2004 19:01	
EDB	ND	2.0	ug/L	02/25/2004 19:01	
Benzene	ND	0.5	ug/L	02/25/2004 19:01	
Toluene	ND	0.5	ug/L	02/25/2004 19:01	
Ethylbenzene	ND	0.5	ug/L	02/25/2004 19:01	
Total xylenes	ND	1.0	ug/L	02/25/2004 19:01	
Ethanol	ND	500	ug/L	02/25/2004 19:01	
Surrogates(s)					
1,2-Dichloroethane-d4	79.6	76-114	%	02/25/2004 19:01	
Toluene-d8	94.0	88-110	%	02/25/2004 19:01	

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

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

Project: 41050001FA20

Conoco Phillips # 3292

Received: 02/18/2004 11:10

Site: 15008 East 14st., San Leandro

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2004/02/24-2B.66-010

Water

Test(s): 8260FAB

QC Batch # 2004/02/24-2B.66

Date Extracted: 02/24/2004 19:10

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	02/24/2004 19:10	
tert-Butyl alcohol (TBA)	ND	100	ug/L	02/24/2004 19:10	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	02/24/2004 19:10	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	02/24/2004 19:10	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	02/24/2004 19:10	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	02/24/2004 19:10	
1,2-DCA	ND	2.0	ug/L	02/24/2004 19:10	
EDB	ND	2.0	ug/L	02/24/2004 19:10	
Benzene	ND	0.5	ug/L	02/24/2004 19:10	
Toluene	ND	0.5	ug/L	02/24/2004 19:10	
Ethylbenzene	ND	0.5	ug/L	02/24/2004 19:10	
Total xylenes	ND	1.0	ug/L	02/24/2004 19:10	
Ethanol	ND	500	ug/L	02/24/2004 19:10	
Surrogates(s)					
1,2-Dichloroethane-d4	98.4	76-114	%	02/24/2004 19:10	
Toluene-d8	98.8	88-110	%	02/24/2004 19:10	

Severn Trent Laboratories, Inc.

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

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

03/02/2004 16:14

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

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

Project: 41050001FA20

Conoco Phillips # 3292

Received: 02/18/2004 11:10

Site: 15008 East 14st., San Leandro

Prep(s): 5030B Test(s): 8260FAB
 Sample ID: MW-11 Lab ID: 2004-02-0550 - 5
 Sampled: 02/17/2004 14:01 Extracted: 2/27/2004 20:10
 Matrix: Water QC Batch#: 2004/02/27-2C.64
 Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	830	250	ug/L	5.00	02/27/2004 20:10	
Benzene	ND	2.5	ug/L	5.00	02/27/2004 20:10	
Toluene	ND	2.5	ug/L	5.00	02/27/2004 20:10	
Ethylbenzene	3.8	2.5	ug/L	5.00	02/27/2004 20:10	
Total xylenes	ND	5.0	ug/L	5.00	02/27/2004 20:10	
tert-Butyl alcohol (TBA)	ND	500	ug/L	5.00	02/27/2004 20:10	
Methyl tert-butyl ether (MTBE)	170	10	ug/L	5.00	02/27/2004 20:10	
Di-isopropyl Ether (DIPE)	ND	10	ug/L	5.00	02/27/2004 20:10	
Ethyl tert-butyl ether (ETBE)	ND	10	ug/L	5.00	02/27/2004 20:10	
tert-Amyl methyl ether (TAME)	ND	10	ug/L	5.00	02/27/2004 20:10	
1,2-DCA	ND	10	ug/L	5.00	02/27/2004 20:10	
EDB	ND	10	ug/L	5.00	02/27/2004 20:10	
Ethanol	ND	2500	ug/L	5.00	02/27/2004 20:10	
Surrogate(s)						
Toluene-d8	94.8	88-110	%	5.00	02/27/2004 20:10	
1,2-Dichloroethane-d4	87.9	76-114	%	5.00	02/27/2004 20:10	

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive
Irvine, CA 92718

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

Project: 41050001FA20
Conoco Phillips # 3292

Received: 02/18/2004 11:10

Site: 15008 East 14st., San Leandro

Prep(s): 5030B Test(s): 8260FAB
 Sample ID: MW-10 Lab ID: 2004-02-0550 - 4
 Sampled: 02/17/2004 13:05 Extracted: 2/26/2004 00:42
 Matrix: Water QC Batch#: 2004/02/25-1D.64
 Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	7100	250	ug/L	5.00	02/26/2004 00:42	
Benzene	4.1	2.5	ug/L	5.00	02/26/2004 00:42	
Toluene	ND	2.5	ug/L	5.00	02/26/2004 00:42	
Ethylbenzene	3.8	2.5	ug/L	5.00	02/26/2004 00:42	
Total xylenes	ND	5.0	ug/L	5.00	02/26/2004 00:42	
Methyl tert-butyl ether (MTBE)	ND	10	ug/L	5.00	02/26/2004 00:42	
Ethanol	ND	2500	ug/L	5.00	02/26/2004 00:42	
Surrogate(s)						
Toluene-d8	92.1	88-110	%	5.00	02/26/2004 00:42	
1,2-Dichloroethane-d4	88.1	76-114	%	5.00	02/26/2004 00:42	

Severn Trent Laboratories, Inc.

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

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03/02/2004 16:14

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

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

Project: 41050001FA20

Conoco Phillips # 3292

Received: 02/18/2004 11:10

Site: 15008 East 14st., San Leandro

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-9	Lab ID: 2004-02-0550 - 3
Sampled: 02/17/2004 12:50	Extracted: 2/26/2004 00:20
Matrix: Water	QC Batch#: 2004/02/25-1D.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	600	50	ug/L	1.00	02/26/2004 00:20	g
Benzene	ND	0.50	ug/L	1.00	02/26/2004 00:20	
Toluene	ND	0.50	ug/L	1.00	02/26/2004 00:20	
Ethylbenzene	ND	0.50	ug/L	1.00	02/26/2004 00:20	
Total xylenes	ND	1.0	ug/L	1.00	02/26/2004 00:20	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	02/26/2004 00:20	
Ethanol	ND	500	ug/L	1.00	02/26/2004 00:20	
Surrogate(s)						
Toluene-d8	88.9	88-110	%	1.00	02/26/2004 00:20	
1,2-Dichloroethane-d4	82.1	76-114	%	1.00	02/26/2004 00:20	

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

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

Project: 41050001FA20

Conoco Phillips # 3292

Received: 02/18/2004 11:10

Site: 15008 East 14st., San Leandro

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-2	Lab ID: 2004-02-0550 - 2
Sampled: 02/17/2004 13:47	Extracted: 2/25/2004 02:52
Matrix: Water	QC Batch#: 2004/02/24-2B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	2800	50	ug/L	1.00	02/25/2004 02:52	g
Benzene	ND	0.50	ug/L	1.00	02/25/2004 02:52	
Toluene	ND	0.50	ug/L	1.00	02/25/2004 02:52	
Ethylbenzene	ND	0.50	ug/L	1.00	02/25/2004 02:52	
Total xylenes	ND	1.0	ug/L	1.00	02/25/2004 02:52	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	02/25/2004 02:52	
Ethanol	ND	500	ug/L	1.00	02/25/2004 02:52	
Surrogate(s)						
Toluene-d8	107.7	88-110	%	1.00	02/25/2004 02:52	
1,2-Dichloroethane-d4	117.9	76-114	%	1.00	02/25/2004 02:52	sl

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

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

Project: 41050001FA20

Conoco Phillips # 3292

Received: 02/18/2004 11:10

Site: 15008 East 14st., San Leandro

Prep(s): 5030B Test(s): 8260FAB
 Sample ID: MW-1 Lab ID: 2004-02-0550 - 1
 Sampled: 02/17/2004 13:33 Extracted: 2/25/2004 02:28
 Matrix: Water QC Batch#: 2004/02/24-2B.66
 Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	8200	250	ug/L	5.00	02/25/2004 02:28	
Benzene	ND	2.5	ug/L	5.00	02/25/2004 02:28	
Toluene	ND	2.5	ug/L	5.00	02/25/2004 02:28	
Ethylbenzene	84	2.5	ug/L	5.00	02/25/2004 02:28	
Total xylenes	ND	5.0	ug/L	5.00	02/25/2004 02:28	
Methyl tert-butyl ether (MTBE)	33	10	ug/L	5.00	02/25/2004 02:28	
Ethanol	ND	2500	ug/L	5.00	02/25/2004 02:28	
Surrogate(s)						
Toluene-d8	103.2	88-110	%	5.00	02/25/2004 02:28	
1,2-Dichloroethane-d4	112.4	76-114	%	5.00	02/25/2004 02:28	

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

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

Project: 41050001FA20

Conoco Phillips # 3292

Received: 02/18/2004 11:10

Site: 15008 East 14st., San Leandro

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	02/17/2004 13:33	Water	1
MW-2	02/17/2004 13:47	Water	2
MW-9	02/17/2004 12:50	Water	3
MW-10	02/17/2004 13:05	Water	4
MW-11	02/17/2004 14:01	Water	5

Severn Trent Laboratories, Inc.

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

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

03/02/2004 16:14

TRC Alton Geoscience

March 02, 2004

21 Technology Drive
Irvine, CA 92718

Attn.: Anju Farfan

Project#: 41050001FA20

Project: Conoco Phillips # 3292

Site: 15008 East 14st., San Leandro

Attached is our report for your samples received on 02/18/2004 11:10
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after
04/03/2004 unless you have requested otherwise.

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

You can also contact me via email. My email address is: dsharma@stl-inc.com

Sincerely,



Dimple Sharma
Project Manager

STL San Francisco

Sample Receipt Checklist

Submission #: 2004- 02 - 0550

Checklist completed by: (initials) TL Date: 02/17/04

Courier name: STL San Francisco Client _____

Custody seals intact on shipping container/samples Yes ___ No ___ Not Present

Chain of custody present? Yes No ___

Chain of custody signed when relinquished and received? Yes No ___

Chain of custody agrees with sample labels? Yes No ___

Samples in proper container/bottle? Yes No ___

Sample containers intact? Yes No ___

Sufficient sample volume for indicated test? Yes No ___

All samples received within holding time? Yes No ___

Container/Temp Blank temperature in compliance ($4^{\circ}C \pm 2$)? Temp: 4.0 °C Yes No ___

Ice Present Yes No ___

Water - VOA vials have zero headspace? No VOA vials submitted ___ Yes No ___

(if bubble is present, refer to approximate bubble size and itemize in comments as S (small ~O), M (medium ~ O) or L (large ~ O))

Water - pH acceptable upon receipt? Yes No

pH adjusted- Preservative used: HNO₃ HCl H₂SO₄ NaOH ZnOAc -Lot #(s) _____

For any item check-listed "No", provided detail of discrepancy in comment section below:

Comments: _____

Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (initials) _____ Date: ____/____/04

Client contacted: Yes No

Summary of discussion: _____

Corrective Action (per PM/Client): _____

STL-San Francisco

2004-02-0580

ConocoPhillips Chain Of Custody Record

83070

1220 Quarry Lane
Pleasanton, CA 94566
(925) 484-1919 (925) 484-1096 fax

ConocoPhillips Site Manager:
INVOICE REMITTANCE ADDRESS:
CONOCOPHILLIPS
Attn: Dee Hutchinson
3611 South Harbor, Suite 200
Santa Ana, CA. 92704

ConocoPhillips Work Order Number
ConocoPhillips Cost Object
DATE: 2/17/04
PAGE: 1 of 1

SAMPLING COMPANY: TRC
ADDRESS: 21 Technology Drive, Irvine CA 92618
PROJECT CONTACT (Hardcopy or PDF Report to): Anju Farfan
TELEPHONE: 949-341-7440 FAX: 949-753-0111 E-MAIL: afarfan@trcsolutions.com
SAMPLER NAME(S) (Print): Max E. David T.
TURNAROUND TIME (CALENDAR DAYS): 14 DAYS
SPECIAL INSTRUCTIONS OR NOTES: RULI 8OXYS by 8260 on the highest 8260 MBE LIT

Valid Value ID: CONOCOPHILLIPS SITE NUMBER: 3292 GLOBAL ID NO.: T2600101450
SITE ADDRESS (Street and City): 15008 East 14 St
EDF DELIVERABLE TO (RP or Designee): Peter Thomson, TRC PHONE NO.: 949-341-7408 E-MAIL: pthomson@trcsolutions.com
CONSULTANT PROJECT NUMBER: 41050001/FA20

REQUESTED ANALYSES

8015m - TPHd Extractable	8260B - TPHg/BTEX/MBE	8260B - TPHg / BTEX / 8 Oxygenates	8260B - TPHg / BTEX / 8 oxygenates + methanol (8015M)	8260B - Full Scan VOCs (does not include oxygenates)	8270C - Semi-Volatiles	8015M / 8021B - TPHg/BTEX/MBE	Lead	Total	DTCLP	TEMPERATURE ON RECEIPT C°
										4.0°C

Sample Identification/Field Point

LAB USE ONLY	Name*	SAMPLING		MATRIX	NO. OF CONT.	8015m - TPHd Extractable	8260B - TPHg/BTEX/MBE	8260B - TPHg / BTEX / 8 Oxygenates	8260B - TPHg / BTEX / 8 oxygenates + methanol (8015M)	8260B - Full Scan VOCs (does not include oxygenates)	8270C - Semi-Volatiles	8015M / 8021B - TPHg/BTEX/MBE	Lead	Total	DTCLP	TEMPERATURE ON RECEIPT C°	
		DATE	TIME														
✓	MW-1	2/17/04	1333	GW	3												
✓	MW-2		1347														
✓	MW-9		1250														Refrigerated
✓	MW-10		1305														
✓	MW-11		1401														

Relinquished by: (Signature) [Signature] Received by: (Signature) Refrigerator Date: 2-17-04 Time: 1520
Relinquished by: (Signature) [Signature] Received by: (Signature) [Signature] Date: 2/18/04 1110 Time: 1010
Relinquished by: (Signature) [Signature] Received by: (Signature) Deuse Harrington / STL-SF Date: 2/18/04 Time: 1110

STATEMENTS

Purge Water Transport and Disposal

Non-hazardous groundwater produced during purging and sampling 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 suspected of containing potentially hazardous material, such as liquid-phase hydrocarbons, was accumulated separately in a drum 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.