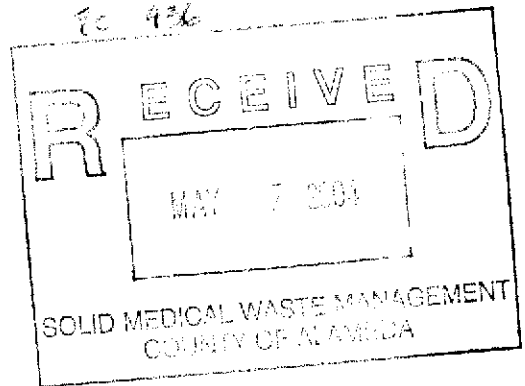




Customer-Focused Solutions

April 12, 2004

ConocoPhillips Company
76 Broadway
Sacramento, CA 95818



ATTN: MR. THOMAS H. KOSEL
SITE: 76 STATION 4186
1771 FIRST STREET
LIVERMORE, CALIFORNIA
RE: QUARTERLY MONITORING REPORT
JANUARY THROUGH MARCH 2004

Dear Mr. Kosel:

Please find enclosed our Quarterly Monitoring Report for 76 Station 4186, located 1771 First Street, Livermore, California. If you have any questions regarding this report, please call us at (949) 753-0101.

Sincerely,

TRC

Anju Farfan
QMS Operations Manager

CC: Ms. Eva Chu, Alameda County Health Care Services
Ms. Carol Mahoney, Zone 7 Water Zone
Ms. Barbara Moed, TRC

Enclosures
20-0400/4186R02.QMS.doc



Customer-Focused Solutions

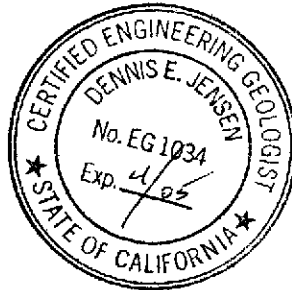
**FIRST QUARTER 2004
FLUID LEVEL MONITORING AND
GROUNDWATER SAMPLING REPORT**
April 12, 2004

76 STATION 4186
1771 First Street
Livermore, California

Prepared For:

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

By:



Senior Project Geologist, Irvine Operations

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 4186
1771 First Street
Livermore, CA

Site Information:

Site:	76 Station 1771 First Street Livermore, CA
Project Coordinator/Phone Number:	Thomas H. Kosel/916-558-7666
Groundwater wells onsite:	5
Groundwater wells offsite:	2

Field Activity:

Sampling consultant:	TRC
Date(s) sampled:	1/08/04
Groundwater wells gauged:	7
Groundwater wells sampled:	7
Purging method:	submersible 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):	21.92
Maximum depth to groundwater (feet bgs):	30.45
Average groundwater elevation (feet relative to mean sea level):	451.28
Average change in groundwater elevations since previous event (feet):	5.87
Groundwater gradient and flow direction:	0.039 ft/ft, west

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:	3
Minimum benzene concentration (µg/l):	ND
Maximum benzene concentration (µg/l):	250 (U-3)
Minimum MTBE concentration (µg/l):	ND
Maximum MTBE concentration (µg/l):	9700
Minimum TPPH concentration (µg/l):	ND
Maximum TPPH concentration (µg/l):	17000 (U-3)
Groundwater wells with free product:	0
Minimum free product thickness (feet):	0
Maximum free product thickness (feet):	0

Additional Information:

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

TABLES

TABLE KEY

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
DNA	=	data not available
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 76 Station 4186 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
January 8, 2004
76 Station 4186

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
U-1 (Screen Interval in feet: 14.0-34.0)														
1/08/04	478.27	22.67	0.00	455.60	4.57	--	54	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5.5	
U-2 (Screen Interval in feet: 13.0-34.0)														
1/08/04	477.44	21.94	0.00	455.50	3.37	--	ND<50	ND<0.50	ND<0.50	0.51	ND<1.0	--	ND<2.0	
U-3 (Screen Interval in feet: 14.0-34.0)														
1/08/04	478.46	21.92	0.00	456.54	4.67	--	17000	250	ND<100	770	1500	--	9700	
U-4 (Screen Interval in feet: 35.0-45.0)														
1/08/04	476.93	29.23	0.00	447.70	8.40	--	ND<50	0.55	ND<0.50	1.6	3.7	--	2.5	
U-5 (Screen Interval in feet: 37.0-47.0)														
1/08/04	476.51	29.21	0.00	447.30	8.51	--	ND<50	ND<0.50	ND<0.50	1.1	2.7	--	17	
U-6 (Screen Interval in feet: DNA)														
1/08/04	478.38	30.45	0.00	447.93	6.09	--	3500	29	32	90	89	--	27	
U-7 (Screen Interval in feet: DNA)														
1/08/04	478.74	30.35	0.00	448.39	5.49	--	1600	4.0	ND<1.0	4.2	8.7	--	56	

Table 2
HISTORIC GROUNDWATER LEVELS AND CHEMICAL ANALYSIS RESULTS

July 1998 Through January 2004

76 Station 4186

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
U-1 (Screen Interval in feet: 14.0-34.0)														
10/07/98	478.27	26.43	0.00	451.84	--	ND	--	ND	ND	ND	ND	ND	--	
1/15/99	478.27	30.42	0.00	447.85	-3.99	ND	--	ND	ND	ND	1.1	7.3	--	
4/14/99	478.27	24.21	0.00	454.06	6.21	ND	--	ND	ND	ND	ND	160	--	
7/19/99	478.27	27.10	0.00	451.17	-2.89	ND	--	ND	ND	ND	ND	92	--	
10/12/99	478.27	29.40	0.00	448.87	-2.30	ND	--	ND	ND	ND	ND	37	--	
1/24/00	478.27	27.90	0.00	450.37	1.50	ND	--	ND	ND	ND	ND	28	--	
4/10/00	478.27	26.16	0.00	452.11	1.74	ND	--	ND	0.93	ND	ND	ND	--	
7/17/00	478.27	28.04	0.00	450.23	-1.88	ND	--	ND	ND	ND	ND	160	--	
10/02/00	478.27	28.41	0.00	449.86	-0.37	ND	--	ND	ND	ND	ND	120	--	
1/08/01	478.27	28.68	0.00	449.59	-0.27	ND	--	ND	ND	ND	ND	103	--	
4/03/01	478.27	25.74	0.00	452.53	2.94	ND	--	ND	ND	ND	ND	55.1	--	
7/02/01	478.27	30.67	0.00	447.60	-4.93	ND	--	ND	ND	ND	ND	ND	--	
10/08/01	478.27	33.13	0.00	445.14	-2.46	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5	--	
1/03/02	478.27	27.67	0.00	450.60	5.46	160	--	ND<0.50	0.51	ND<0.50	0.69	31	--	
4/05/02	478.27	29.40	0.00	448.87	-1.73	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	60	--	
7/02/02	478.27	31.17	0.00	447.10	-1.77	1100	--	ND<0.50	1.7	0.73	130	--	35	
12/30/02	478.27	22.03	0.00	456.24	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	1.2	--	90	
5/02/03	478.27	24.13	0.00	454.14	-2.10	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1	--	50	
7/01/03	478.27	25.35	0.00	452.92	-1.22	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1	--	ND<2	
10/03/03	478.27	27.24	0.00	451.03	-1.89	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
1/08/04	478.27	22.67	0.00	455.60	4.57	--	54	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5.5	
U-2 (Screen Interval in feet: 13.0-34.0)														
7/13/98	477.44	23.52	0.00	453.92	--	1200	--	130	12	62	180	1100	--	
10/07/98	477.44	25.31	0.00	452.13	-1.79	ND	--	ND	ND	ND	ND	160	--	
1/15/99	477.44	30.22	0.00	447.22	-4.91	ND	--	ND	ND	ND	ND	280	--	

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)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
U-2 continued														
4/14/99	477.44	24.50	0.00	452.94	5.72	ND	--	ND	ND	ND	ND	460	--	
7/19/99	477.44	28.54	0.00	448.90	-4.04	ND	--	ND	ND	ND	ND	220	--	
10/12/99	477.44	30.48	0.00	446.96	-1.94	ND	--	ND	ND	ND	ND	160	--	
1/24/00	477.44	24.52	0.00	452.92	5.96	ND	--	ND	ND	ND	ND	150	--	
4/10/00	477.44	23.68	0.00	453.76	0.84	ND	--	ND	ND	ND	ND	177	--	
7/17/00	477.44	28.35	0.00	449.09	-4.67	ND	--	ND	ND	ND	ND	62.7	--	
10/02/00	477.44	28.72	0.00	448.72	-0.37	ND	--	ND	ND	ND	ND	52	--	
1/08/01	477.44	29.11	0.00	448.33	-0.39	ND	--	ND	ND	ND	ND	57.3	--	
4/03/01	477.44	25.95	0.00	451.49	3.16	ND	--	ND	ND	ND	ND	30.2	--	
7/02/01	477.44	29.01	0.00	448.43	-3.06	ND	--	ND	ND	ND	ND	16	--	
10/08/01	477.44	30.94	0.00	446.50	-1.93	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	82	--	
1/03/02	477.44	27.33	0.00	450.11	3.61	260	--	7.7	11	1.7	15	42	--	
4/05/02	477.44	30.02	0.00	447.42	-2.69	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	25	--	
7/02/02	477.44	31.23	0.00	446.21	-1.21	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1	--	ND<0.50	
10/01/02	477.44	32.00	0.00	445.44	-0.77	ND<50	--	ND<0.50	0.62	ND<0.50	ND<1	--	ND<2	
12/30/02	477.44	22.32	0.00	455.12	9.68	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1	--	ND<2	
5/02/03	477.44	25.92	0.00	451.52	-3.60	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1	--	ND<2	
7/01/03	477.44	24.99	0.00	452.45	0.93	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1	--	ND<2	
10/03/03	477.44	25.31	0.00	452.13	-0.32	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
1/08/04	477.44	21.94	0.00	455.50	3.37	--	ND<50	ND<0.50	ND<0.50	0.51	ND<1.0	--	ND<2.0	
U-3 (Screen Interval in feet: 14.0-34.0)														
7/13/98	477.44	23.52	0.00	453.92	--	70000	--	3100	5500	2700	16000	7500	--	
10/07/98	477.44	25.31	0.00	452.13	-1.79	54000	--	5000	1100	3100	14000	6100	--	
1/15/99	477.44	30.22	0.00	447.22	-4.91	41000	--	3100	ND	1800	3800	15000	--	
4/14/99	477.44	24.50	0.00	452.94	5.72	33000	--	86	290	2200	7800	39000	--	
7/19/99	477.44	28.54	0.00	448.90	-4.04	48000	--	3900	2500	3600	14000	12000	16000	
10/12/99	477.44	30.48	0.00	446.96	-1.94	35000	--	4200	ND	2300	1800	22000	8300	
1/24/00	477.44	24.52	0.00	452.92	5.96	13000	--	260	ND	770	3200	53000	42000	
4/10/00	477.44	23.68	0.00	453.76	0.84	35200	--	1070	241	2820	8850	35600	40900	

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)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
U-3 continued														
7/17/00	477.44	28.35	0.00	449.09	-4.67	29000	--	3570	525	3180	5660	22500	21000	
10/02/00	477.44	28.72	0.00	448.72	-0.37	11000	--	2100	31	2000	780	25000	28000	
1/08/01	477.44	29.11	0.00	448.33	-0.39	33600	--	3060	427	3040	4190	24700	30900	
4/03/01	477.44	25.95	0.00	451.49	3.16	5390	--	660	10.8	304	356	15200	19300	
7/02/01	477.44	29.01	0.00	448.43	-3.06	13000	--	1200	58	1300	930	25000	26000	
10/08/01	477.44	30.94	0.00	446.50	-1.93	6100	--	500	ND<10	570	130	23000	22000	
1/03/02	477.44	27.33	0.00	450.11	3.61	9900	--	700	130	24	1000	14000	12000	
4/05/02	477.44	30.02	0.00	447.42	-2.69	9800	--	1100	180	220	1400	16000	30000	
7/02/02	477.44	31.23	0.00	446.21	-1.21	ND<25000	--	ND<250	ND<250	ND<250	ND<500	12000	12000	
10/01/02	477.44	32.00	0.00	445.44	-0.77	ND<25000	--	ND<250	ND<250	ND<250	ND<500	12000	12000	
12/30/02	477.44	22.32	0.00	455.12	9.68	23000	--	330	170	870	4900	18000	18000	
5/02/03	477.44	25.92	0.00	451.52	-3.60	19000	--	280	ND<50	880	1500	15000	15000	
7/01/03	477.44	24.99	0.00	452.45	0.93	19000	--	120	ND<100	180	880	22000	22000	
10/03/03	478.46	26.59	0.00	451.87	-0.58	--	20000	170	ND<50	250	730	--	16000	
1/08/04	478.46	21.92	0.00	456.54	4.67	--	17000	250	ND<100	770	1500	--	9700	
U-4 (Screen Interval in feet: 35.0-45.0)														
4/03/01	476.93	31.63	0.00	445.30	--	ND	--	ND	ND	ND	ND	37.8	38.2	
7/02/01	476.93	37.96	0.00	438.97	-6.33	ND	--	ND	ND	ND	ND	5.3	ND	
10/08/01	476.93	44.24	0.00	432.69	-6.28	--	--	--	--	--	--	--	--	
1/03/02	476.93	36.15	0.00	440.78	8.09	100	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	10	8.5	
4/05/02	476.93	37.64	0.00	439.29	-1.49	ND<50	--	0.50	ND<0.50	ND<0.50	ND<0.50	4.1	--	
7/02/02	476.93	36.85	0.00	440.08	0.79	67	--	ND<0.50	ND<0.50	ND<0.50	ND<1	--	12	
10/01/02	476.93	38.54	0.00	438.39	-1.69	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1	--	9.8	
12/30/02	476.93	32.64	0.00	444.29	5.90	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1	--	25	
5/02/03	476.93	31.40	0.00	445.53	1.24	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1	--	4.1	
7/01/03	476.93	33.60	0.00	443.33	-2.20	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1	--	2.1	
10/03/03	476.93	37.63	0.00	439.30	-4.03	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	9.1	
1/08/04	476.93	29.23	0.00	447.70	8.40	--	ND<50	0.55	ND<0.50	1.6	3.7	--	2.5	
U-5 (Screen Interval in feet: 37.0-47.0)														

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
U-5 continued														
4/03/01	476.51	31.75	0.00	444.76	--	ND	--	ND	0.728	ND	0.993	54.8	55.4	
7/02/01	476.51	38.68	0.00	437.83	-6.93	ND	--	ND	ND	ND	ND	88	94	
10/08/01	476.51	46.31	0.00	430.20	-7.63	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	37	54	
1/03/02	476.51	36.55	0.00	439.96	9.76	ND<50	--	ND<0.50	0.59	ND<0.50	0.91	51	53	
4/05/02	476.51	37.83	0.00	438.68	-1.28	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	37	--	
7/02/02	476.51	36.92	0.00	439.59	0.91	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1	43	43	
10/01/02	476.51	--	--	--	--	--	--	--	--	--	--	--	--	
12/30/02	476.51	--	--	--	--	--	--	--	--	--	--	--	--	
5/02/03	476.51	31.55	0.00	444.96	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1	--	18	
7/01/03	476.51	33.83	0.00	442.68	-2.28	73	--	ND<0.50	ND<0.50	ND<0.50	ND<1	--	46	
10/03/03	476.51	37.72	0.00	438.79	-3.89	--	58	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	44	
1/08/04	476.51	29.21	0.00	447.30	8.51	--	ND<50	ND<0.50	ND<0.50	1.1	2.7	--	17	
U-6 (Screen Interval in feet: DNA)														
1/03/02	478.38	33.99	0.00	444.39	--	5000	--	36	ND<25	260	450	ND<250	ND<10	
4/05/02	478.38	36.18	0.00	442.20	-2.19	1300	--	16	ND<5	54	ND<5	--	--	
7/02/02	478.38	36.33	0.00	442.05	-0.15	1100	--	1.4	ND<0.50	16	ND<1	--	0.94	
10/01/02	478.38	37.70	0.00	440.68	-1.37	2000	--	5.4	ND<0.50	62	ND<1	--	2.6	
12/30/02	478.38	31.63	0.00	446.75	6.07	130	--	ND<0.50	ND<0.50	2.3	ND<1	--	ND<2	
5/02/03	478.38	31.49	0.00	446.89	0.14	150	--	ND<0.50	ND<0.50	1.8	1.7	--	82	
7/01/03	478.38	32.88	0.00	445.50	-1.39	190	--	1.8	ND<0.50	9.4	8.7	--	36	
10/03/03	478.38	36.54	0.00	441.84	-3.66	--	ND<10000	140	ND<100	940	560	--	ND<400	
1/08/04	478.38	30.45	0.00	447.93	6.09	--	3500	29	32	90	89	--	27	
U-7 (Screen Interval in feet: DNA)														
1/03/02	478.74	32.43	0.00	446.31	--	3100	--	93	ND<10	35	73	140	130	
4/05/02	478.74	34.06	0.00	444.68	-1.63	630	--	22	0.53	2.6	ND<0.50	45	--	
7/02/02	478.74	35.28	0.00	443.46	-1.22	1100	--	21	ND<0.50	6.9	ND<1	--	60	
10/01/02	478.74	37.70	0.00	441.04	-2.42	1700	--	11	ND<0.50	3.1	ND<1	--	25	
12/30/02	478.74	31.93	0.00	446.81	5.77	4600	--	41	5.3	32	13	--	34	
5/02/03	478.74	31.81	0.00	446.93	0.12	3000	--	17	2.70	14	5.10	--	42	

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
U-7 continued														
7/01/03	478.74	33.47	0.00	445.27	-1.66	2300	--	11	0.53	8.0	1.50	--	35	
10/03/03	478.74	35.84	0.00	442.90	-2.37	--	6500	30	ND<5.0	41	ND<10	--	53	
1/08/04	478.74	30.35	0.00	448.39	5.49	--	1600	4.0	ND<1.0	4.2	8.7	--	56	

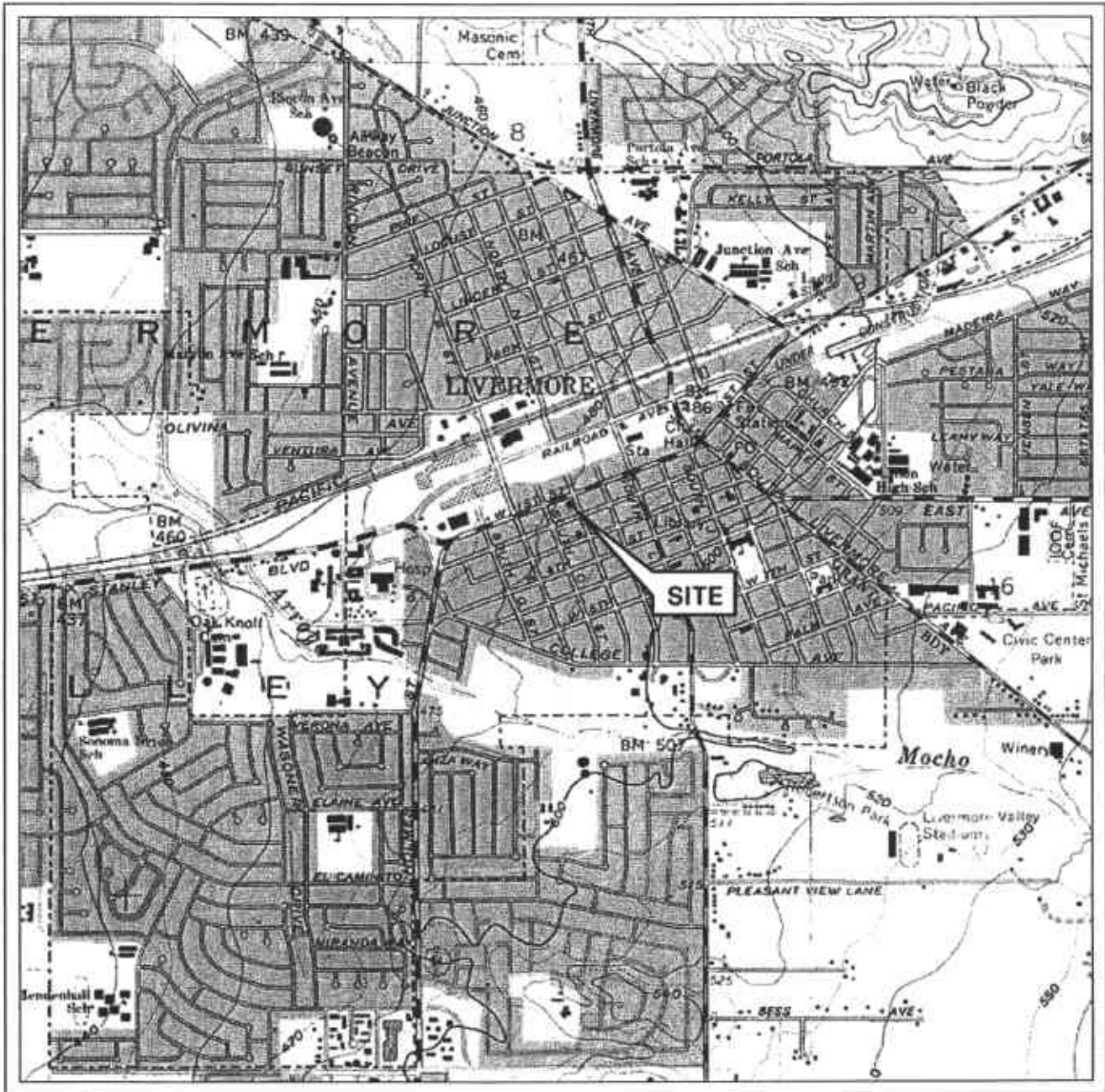
Table 3
SUMMARY OF ADDITIONAL CHEMICAL ANALYSIS RESULTS
76 Station 4186

Date Sampled	EDC (µg/l)	1,1-DCA (µg/l)	4-Chloro- toluene (µg/l)	EDB (µg/l)	DO (mg/l)	TAME 8260B (µg/l)	TBA 8260B (µg/l)	DIPE 8260B (µg/l)	ETBE 8260B (µg/l)	Ethanol 8015B (mg/l)	ORP (mV)	Ethanol 8260B (µg/l)	1,2 DCE (µg/l)
U-1													
10/02/00	--	--	--	--	--	--	ND	--	--	--	--	--	--
12/30/02	--	--	--	--	0.9	--	--	--	--	--	98	--	--
5/02/03	--	--	--	--	0.4	--	--	--	--	--	95	--	--
7/01/03	--	--	--	--	0.5	--	--	--	--	ND<500	115	--	--
10/03/03	--	--	--	--	--	--	--	--	--	--	--	ND<500	--
1/08/04	--	--	--	--	--	--	--	--	--	--	--	ND<500	--
U-2													
10/02/00	--	--	--	--	--	--	ND	--	--	--	--	--	--
10/01/02	--	--	--	--	1.4	--	--	--	--	--	--	--	--
12/30/02	--	--	--	--	3.1	--	--	--	--	--	118	--	--
5/02/03	--	--	--	--	140	--	--	--	--	--	120	--	--
7/01/03	--	--	--	--	1.2	--	--	--	--	ND<500	100	--	--
10/03/03	--	--	--	--	--	--	--	--	--	--	--	ND<500	--
1/08/04	--	--	--	--	--	--	--	--	--	--	--	ND<500	--
U-3													
10/02/00	--	--	--	--	--	--	63000	--	--	--	--	--	--
1/08/01	--	--	--	ND	--	ND	49300	ND	ND	ND	--	--	ND
4/03/01	--	--	--	ND	--	ND	22200	ND	ND	ND	--	--	ND
7/02/01	--	--	--	ND	--	ND	27000	ND	ND	ND	--	--	ND
10/08/01	--	--	--	ND<290	--	ND<290	33000	ND<290	ND<290	ND<140000	--	--	ND<290
1/03/02	--	--	--	ND<100	--	ND<100	17000	ND<100	ND<100	ND<50000	--	--	ND<100
4/05/02	--	--	--	ND<100	--	ND<100	66000	ND<100	ND<100	ND<25000	--	--	ND<100
7/02/02	--	--	--	ND<250	--	ND<250	47000	ND<500	ND<250	ND<13000	--	--	ND<250
10/01/02	--	--	--	ND<1000	0.5	ND<1000	ND<50000	ND<1000	ND<1000	ND<250000	47	--	ND<1000
12/30/02	--	--	--	ND<400	0.3	ND<400	23000	ND<400	ND<400	ND<100000	110	--	ND<400
5/02/03	--	--	--	ND<200	0.6	ND<200	25000	ND<200	ND<200	ND<50000	90	--	ND<200

Date Sampled	EDC (µg/l)	1,1-DCA (µg/l)	4-Chloro- toluene (µg/l)	EDB (µg/l)	DO (mg/l)	TAME 8260B (µg/l)	TBA 8260B (µg/l)	DIPE 8260B (µg/l)	ETBE 8260B (µg/l)	Ethanol 8015B (mg/l)	ORP (mV)	Ethanol 8260B (µg/l)	1,2 DCE (µg/l)
U-3 continued													
7/01/03	--	--	--	ND<400	0.5	ND<400	32000	ND<400	ND<400	ND<100000	90	--	ND<400
10/03/03	--	ND<200	--	ND<200	--	ND<200	39000	ND<2.0	ND<200	--	--	ND<50000	--
1/08/04	ND<400	--	--	ND<400	--	ND<400	ND<20000	ND<400	ND<400	--	--	ND<100000	--
U-4													
4/03/01	--	--	ND	--	--	ND	ND	ND	ND	ND	--	--	ND
7/02/01	--	--	ND	--	--	ND	ND	ND	ND	ND	--	--	ND
1/03/02	--	--	ND<1	--	--	ND<1	ND<20	ND<1	ND<1	ND<500	--	--	ND<1
10/01/02	--	--	--	--	0.6	--	--	--	--	--	63	--	--
12/30/02	--	--	--	--	0.3	--	--	--	--	--	130	--	--
5/02/03	--	--	--	--	0.7	--	--	--	--	--	110	--	--
7/01/03	--	--	--	--	0.6	--	--	--	--	ND<500	120	--	--
10/03/03	--	--	--	--	--	--	--	--	--	--	--	ND<500	--
1/08/04	--	--	--	--	--	--	--	--	--	--	--	ND<500	--
U-5													
4/03/01	--	--	--	ND	--	ND	ND	ND	ND	ND	--	--	ND
7/02/01	--	--	--	ND	--	ND	ND	ND	ND	ND	--	--	ND
10/08/01	--	--	--	ND<2	--	ND<2	ND<100	ND<2	ND<2	ND<1000	--	--	ND<2
1/03/02	--	--	--	ND<1	--	ND<1	ND<20	ND<1	ND<1	ND<500	--	--	ND<1
5/02/03	--	--	--	--	0.5	--	--	--	--	--	130	--	--
7/01/03	--	--	--	--	0.8	--	--	--	--	--	140	--	--
10/03/03	--	--	--	--	--	--	--	--	--	--	--	ND<500	--
1/08/04	--	--	--	--	--	--	--	--	--	--	--	ND<500	--
U-6													
1/03/02	--	--	--	ND<10	--	ND<10	ND<200	ND<10	ND<10	ND<5000	--	--	ND<10
10/01/02	--	--	--	--	0.7	--	--	--	--	--	--	--	--
12/30/02	--	--	--	--	0.4	--	--	--	--	--	86	--	--
5/02/03	--	--	--	--	0.95	--	--	--	--	--	140	--	--
7/01/03	--	--	--	--	0.8	--	--	--	--	ND<500	110	--	--
10/03/03	--	--	--	--	--	--	--	--	--	--	--	ND<100000	--

Date Sampled	EDC	1,1-DCA	4-Chloro- toluene	EDB	DO	TAME 8260B	TBA 8260B	DIPE 8260B	ETBE 8260B	Ethanol 8015B	ORP	Ethanol 8260B	1,2 DCE
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(mV)	(µg/l)	(µg/l)
U-6 continued													
1/08/04	--	--	--	--	--	--	--	--	--	--	--	ND<5000	--
U-7													
1/03/02	--	--	--	ND<1	--	ND<1	30	ND<1	ND<1	ND<500	--	--	ND<1
10/01/02	--	--	--	--	1.1	--	--	--	--	--	69	--	--
12/30/02	--	--	--	--	0.2	--	--	--	--	--	120	--	--
5/02/03	--	--	--	--	0.5	--	--	--	--	--	100	--	--
7/01/03	--	--	--	--	0.6	--	--	--	--	ND<500	90	--	--
10/03/03	--	--	--	--	--	--	--	--	--	--	--	ND<5000	--
1/08/04	--	--	--	--	--	--	--	--	--	--	--	ND<1000	--

FIGURES



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



SCALE 1:24,000



SOURCE:

United States Geological Survey
7.5 Minute Topographic Maps:
Livermore Quadrangle



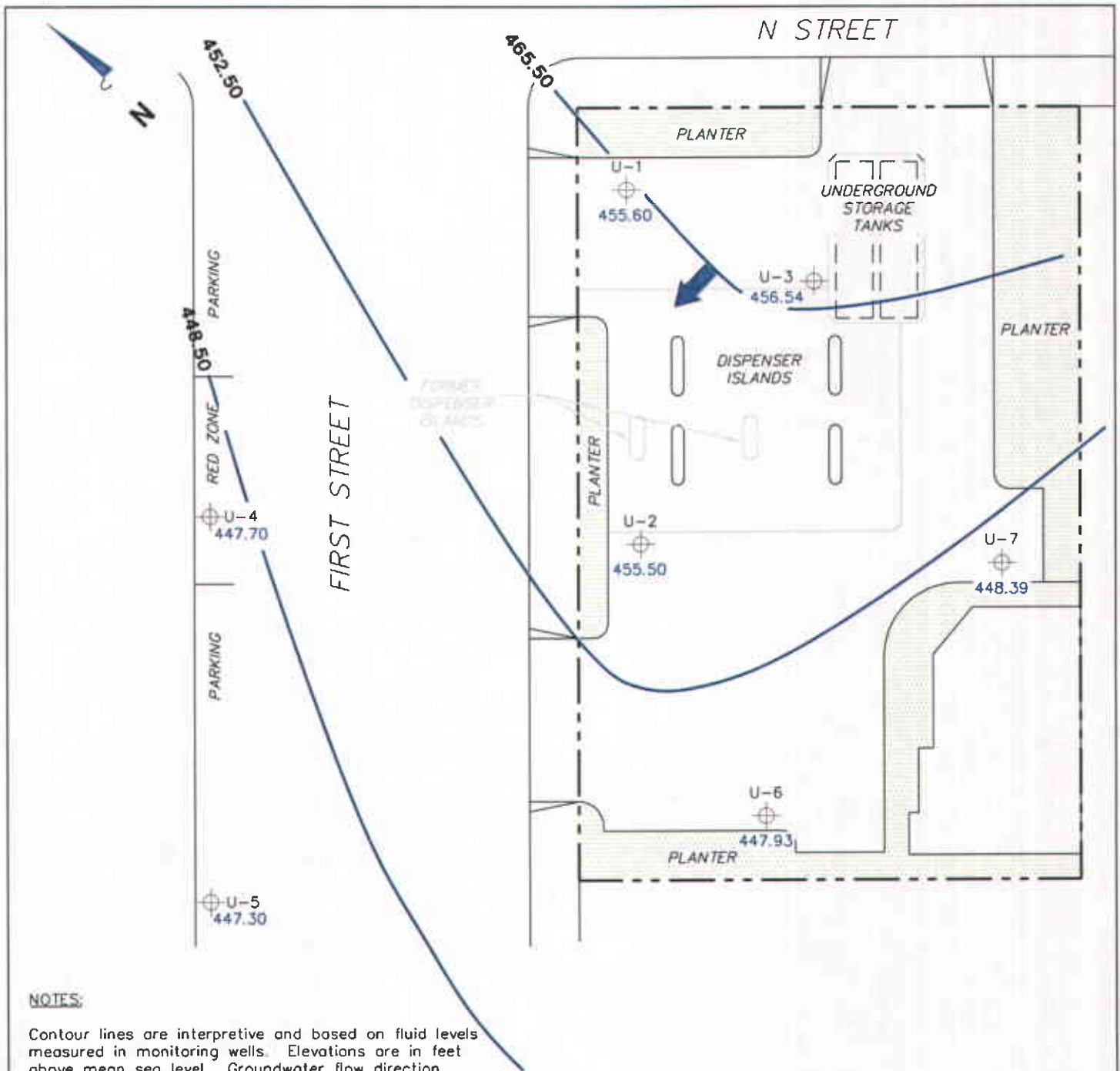
VICINITY MAP

76 Station 4186
1771 First Street
Livermore, California

FIGURE 1

P.S. = 1:1

TRC



NOTES:

Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. Groundwater flow direction varies with location.

LEGEND

- U-7 Monitoring Well with Groundwater Elevation (feet)
- 458.50 Groundwater Elevation Contour
- General Direction of Groundwater Flow

**GROUNDWATER ELEVATION
CONTOUR MAP
January 8, 2004**

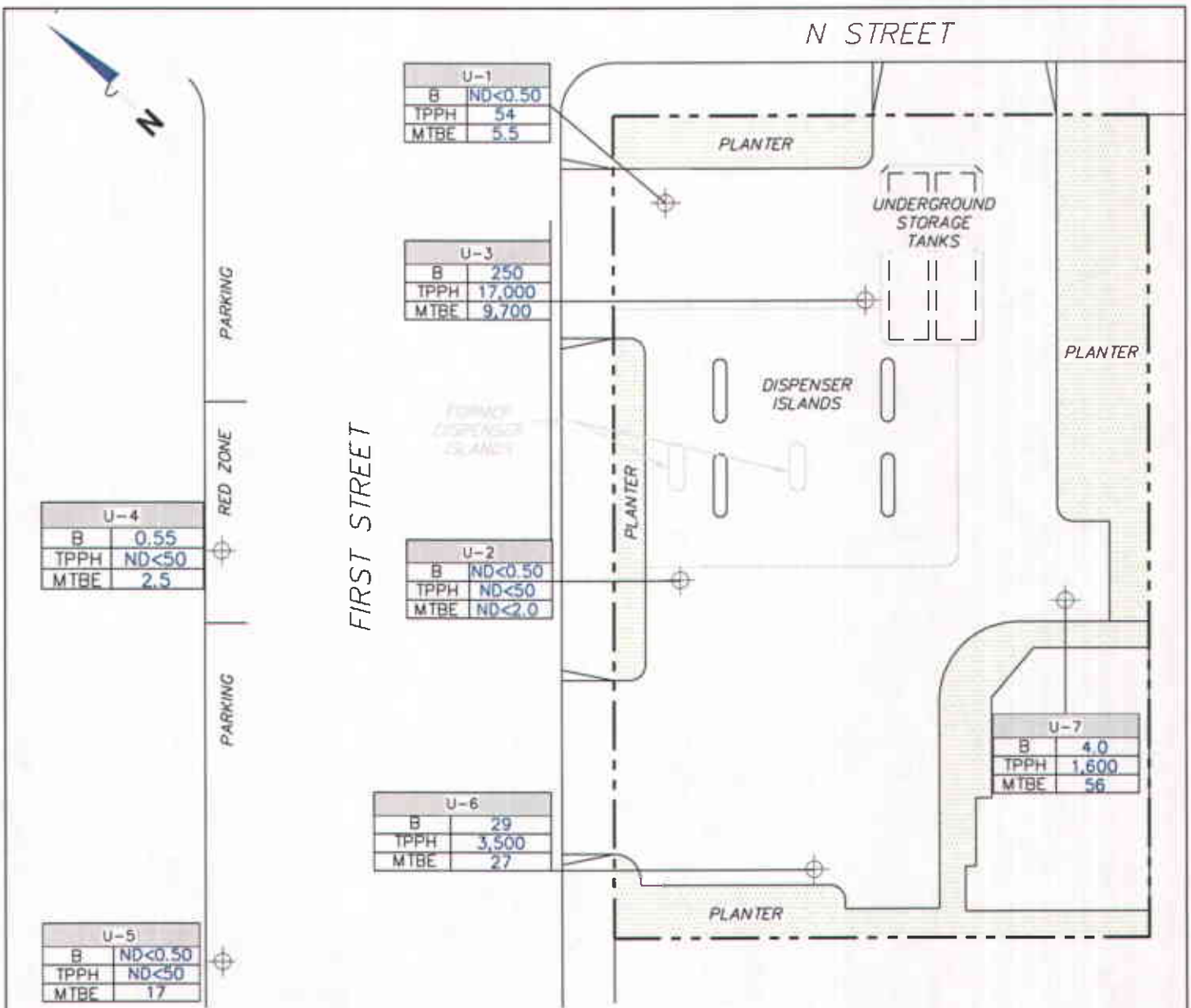
76 Station 4186
1771 First Street
Livermore, California



SCALE (FEET)



FIGURE 2



NOTES:

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

LEGEND

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

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

DISSOLVED-PHASE HYDROCARBON CONCENTRATIONS MAP
January 8, 2004

76 Station 4186
 1771 First Street
 Livermore, California



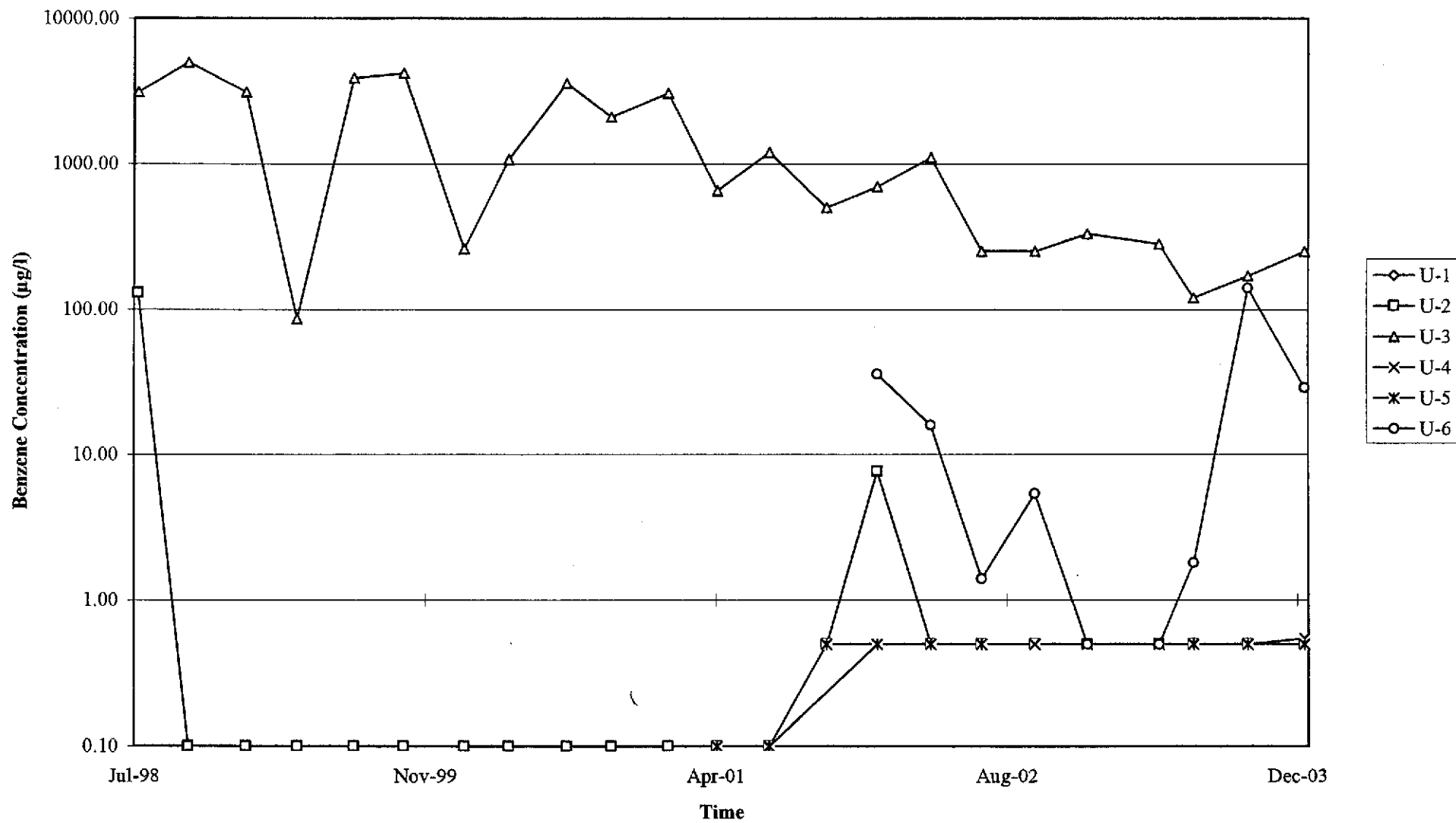
SCALE (FEET)



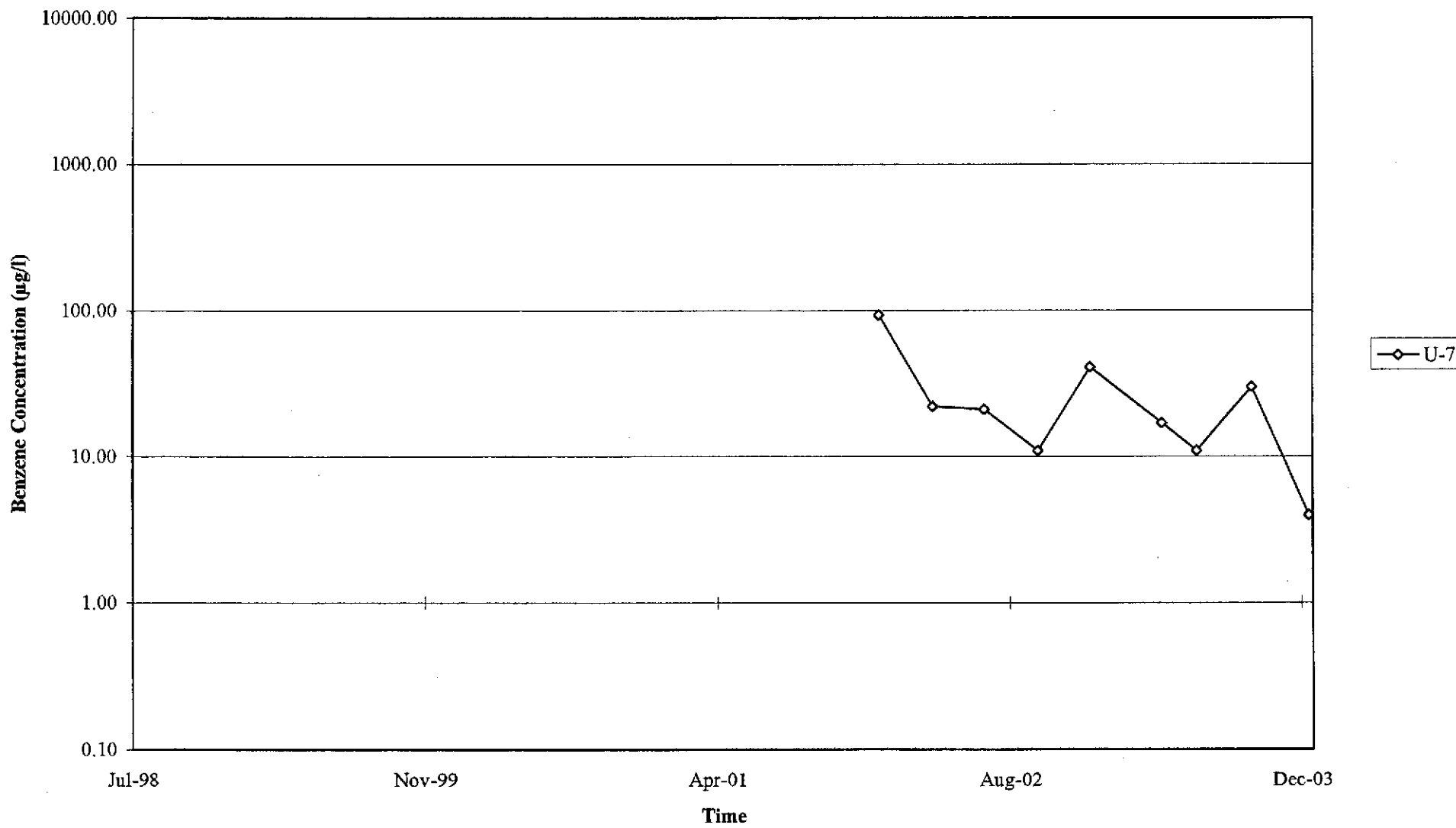
FIGURE 3

GRAPHS

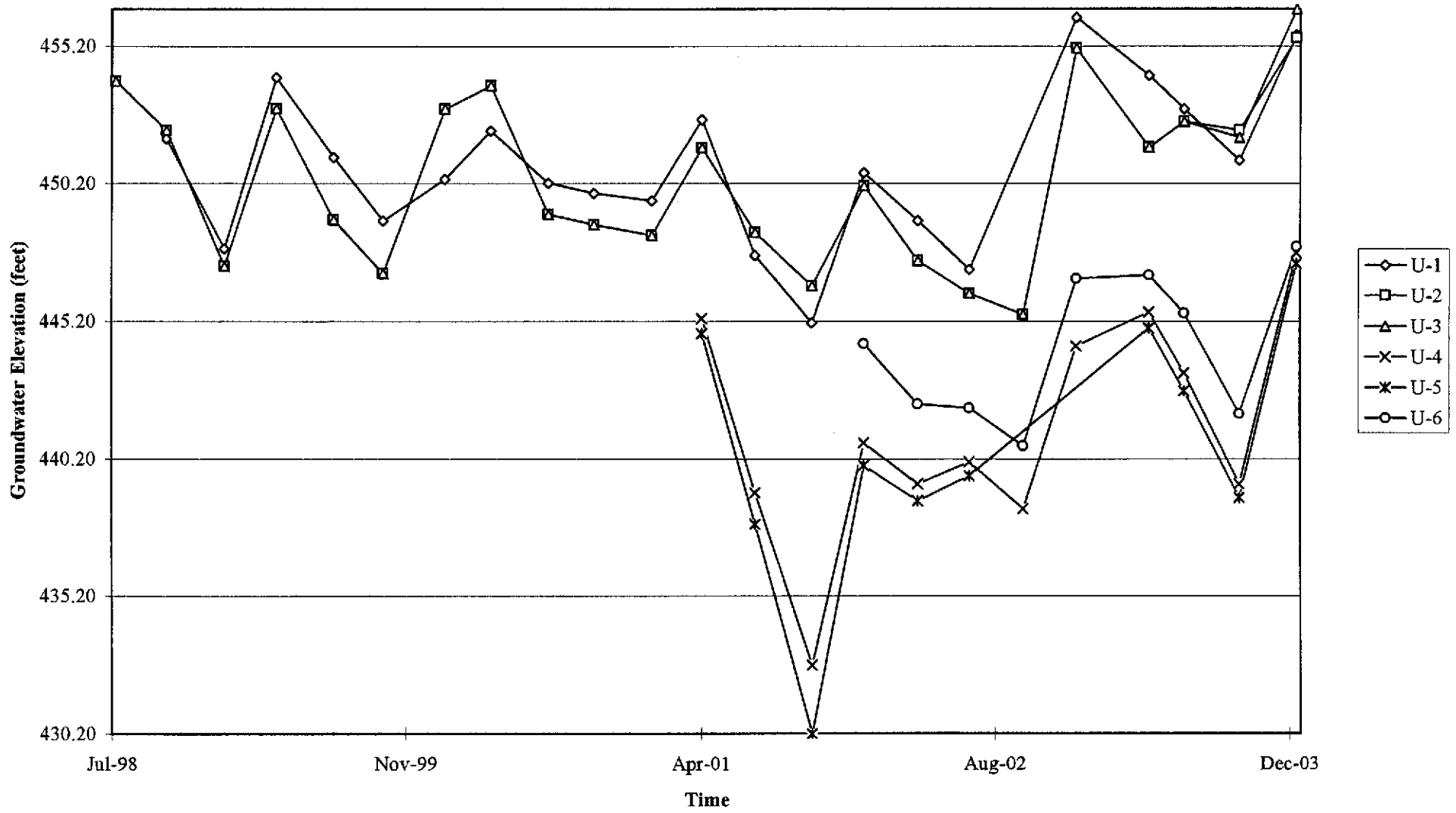
Graph 1
Benzene Concentrations vs. Time
76 Station 4186



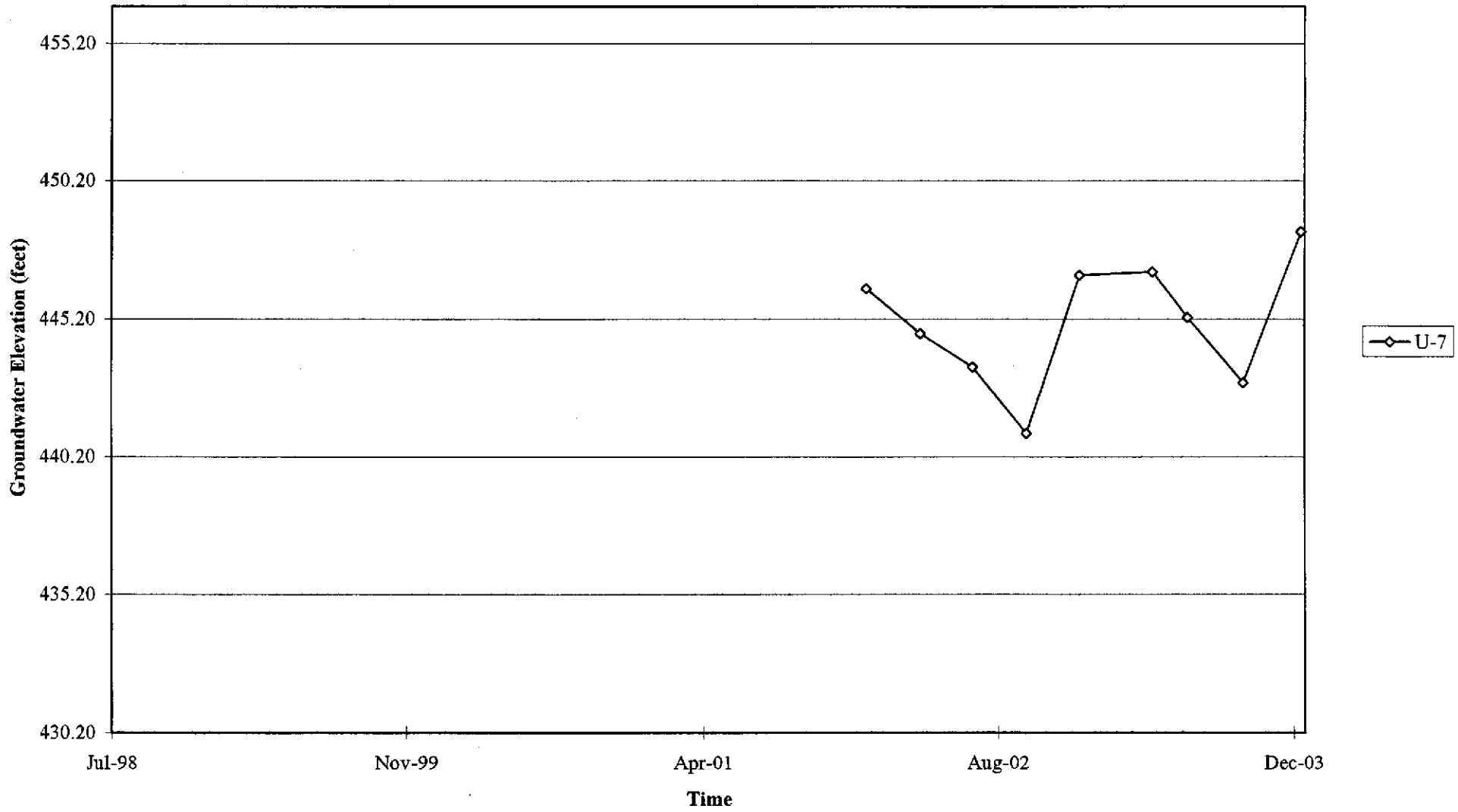
Graph 2
Benzene Concentrations vs. Time
76 Station 4186



Graph 3
Hydrograph
76 Station 4186



Graph 4
Hydrograph
76 Station 4186



GENERAL FIELD PROCEDURES

Groundwater Monitoring and Sampling Assignments

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

Fluid Level Measurements

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

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

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

Purging and Groundwater Parameter Measurement

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

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

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

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

Groundwater Sample Collection

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

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

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

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

Sequence of Gauging, Purging, and Sampling

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

Decontamination

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

Exceptions

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

GROUNDWATER SAMPLING FIELD NOTES

Technician: LYDZL
 Site: 4186 Project No.: 41050001 Date: 1/8/09
 Well No.: U-1 Purge Method: SUB
 Depth to Water (feet): 22.67 Depth to Product (feet): 0
 Total Depth (feet): 33.66 LPH & Water Recovered (gallons): 0
 Water Column (feet): 10.99 Casing Diameter (Inches): 2"
 80% Recharge Depth (feet): 24.86 1 Well Volume (gallons): 2

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F.C)	pH	SRP Turbidity	D.O.
0709			2	856	9.9	5.73	210	12.98
			4	828	9.8	5.84	210	12.51
	0716		6	1121	10.6	5.87	184	12.36
Static at Time Sampled			Total Gallons Purged		Time Sampled			
24.31			6		1035			
Comments:								

Well No.: U-3 Purge Method: SUB
 Depth to Water (feet): 21.92 Depth to Product (feet): 0
 Total Depth (feet): 33.39 LPH & Water Recovered (gallons): 0
 Water Column (feet): 11.97 Casing Diameter (Inches): 2"
 80% Recharge Depth (feet): 24.21 1 Well Volume (gallons): 2

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F.C)	pH	SRP Turbidity	D.O.
0727			2	1046	13.7	6.20	14.3	9.86
			4	1002	13.2	6.34	132	15.49
	0735		6	1011	14.7	6.38	133	12.82
Static at Time Sampled			Total Gallons Purged		Time Sampled			
23.75			6		1215			
Comments:								

GROUNDWATER SAMPLING FIELD NOTES

Technician: LOWELL

Site: 4186

Project No.: 41050001

Date: 1/8/04

Well No.: U-2

Purge Method: 4-DIA SUB

Depth to Water (feet): 21.94

Depth to Product (feet): 0

Total Depth (feet): 33.10

LPH & Water Recovered (gallons): 0

Water Column (feet): 11.16

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 24.17

1 Well Volume (gallons): 2

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F.C)	pH	ORP Turbidity	D.O.
0822			2	1067	14.9	6.77	25	11.80
			4	990	13.9	6.86	-25	13.44
	0832		6	949	16.8	6.85	-6	12.11
Static at Time Sampled		Total Gallons Purged			Time Sampled			
24.15		6			1099			
Comments: <u>WAIT FOR WELL TO RECOVER</u>								
<u>2HR.</u>								

Well No.: 4-4
 Depth to Water (feet): 24.13
 Total Depth (feet): 45.08
 Water Column (feet): 15.85
 80% Recharge Depth (feet): 32.4

Purge Method: SUB
 Depth to Product (feet): 0
 LPH & Water Recovered (gallons): 0
 Casing Diameter (Inches): 2"
 1 Well Volume (gallons): 3

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F.C)	pH	ORP Turbidity	D.O.
0843			3	913	17.5	6.97	51	9.79
			6	806	15.0	7.21	66	12.76
	0857		9	798	16.8	7.10	76	11.90
Static at Time Sampled		Total Gallons Purged			Time Sampled			
24.60		9			0992			
Comments:								

GROUNDWATER SAMPLING FIELD NOTES

Technician: WDEW

Site: 418C

Project No.: 91050001

Date: 1/8/09

Well No.: U-7
 Depth to Water (feet): 30.35
 Total Depth (feet): 44.35
 Water Column (feet): 14
 80% Recharge Depth (feet): 33.15

Purge Method: 811B
 Depth to Product (feet): 0
 LPH & Water Recovered (gallons): 0
 Casing Diameter (Inches): 2"
 1 Well Volume (gallons): 2.

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	200 Turbidity	D.O.
0744			2	853	12.9	6.68	138	13.74
			4	837	13.7	6.54	-34	12.87
	0757		6	831	14.9	6.49	-51	11.55
Static at Time Sampled			Total Gallons Purged		Time Sampled			
28.86			6		1006			
Comments:								

Well No.: U-6
 Depth to Water (feet): 30.95
 Total Depth (feet): 44.52
 Water Column (feet): 14.07
 80% Recharge Depth (feet): 33.26

Purge Method: 811B
 Depth to Product (feet): 0
 LPH & Water Recovered (gallons): 0
 Casing Diameter (Inches): 2"
 1 Well Volume (gallons): 2.8

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	0.2 Turbidity	D.O.
0805			2	1002	13.9	6.56	-12	13.53
			4	1011	15.0	6.41	-29	11.77
	0815		6	1011	14.5	6.67	-37	11.95
Static at Time Sampled			Total Gallons Purged		Time Sampled			
28.20			6		0955			
Comments:								

GROUNDWATER SAMPLING FIELD NOTES

Technician: LYOZL

Site: 4186

Project No.: 41850001

Date: 1/8/09

Well No.: U-5
 Depth to Water (feet): 29.21
 Total Depth (feet): 47.07
 Water Column (feet): 17.86
 80% Recharge Depth (feet): 32.78

Purge Method: SMB
 Depth to Product (feet): 0
 LPH & Water Recovered (gallons): 0
 Casing Diameter (Inches): 2"
 1 Well Volume (gallons): 3.86

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F.C)	pH	ORP Turbidity	D.O.
0903			3	806	15.5	7.17	91	11.95
			6	753	17.0	7.17	85	11.39
	0918		9	762	17.3	7.16	104	11.27
Static at Time Sampled			Total Gallons Purged			Time Sampled		
29.51			9			0932		
Comments:								

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

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

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

TRC Alton Geoscience

January 27, 2004

21 Technology Drive
Irvine, CA 92718

Attn.: Anju Farfan

Project#: 41050001FA20

Project: Conoco Phillips #4186

Site: 1771 First St., Livermore

Attached is our report for your samples received on 01/09/2004 17:25

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 02/23/2004 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

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

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 #4186

Received: 01/09/2004 17:25

Site: 1771 First St., Livermore

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
U-1	01/08/2004 10:35	Water	1
U-3	01/08/2004 10:18	Water	2
U-7	01/08/2004 10:06	Water	3
U-6	01/08/2004 08:55	Water	4
U-2	01/08/2004 10:44	Water	5
U-4	01/08/2004 09:42	Water	6
U-5	01/08/2004 09:32	Water	7

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01/27/2004 13:40

Page 1 of 16

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 #4186

Received: 01/09/2004 17:25

Site: 1771 First St., Livermore

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	U-1	Lab ID:	2004-01-0260 - 1
Sampled:	01/08/2004 10:35	Extracted:	1/20/2004 15:51
Matrix:	Water	QC Batch#:	2004/01/20-1B.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	54	50	ug/L	1.00	01/20/2004 15:51	g
Benzene	ND	0.50	ug/L	1.00	01/20/2004 15:51	
Toluene	ND	0.50	ug/L	1.00	01/20/2004 15:51	
Ethylbenzene	ND	0.50	ug/L	1.00	01/20/2004 15:51	
Total xylenes	ND	1.0	ug/L	1.00	01/20/2004 15:51	
Methyl tert-butyl ether (MTBE)	5.5	2.0	ug/L	1.00	01/20/2004 15:51	
Ethanol	ND	500	ug/L	1.00	01/20/2004 15:51	
Surrogate(s)						
1,2-Dichloroethane-d4	89.0	76-114	%	1.00	01/20/2004 15:51	
Toluene-d8	89.8	88-110	%	1.00	01/20/2004 15:51	

Gas/BTEX Fuel Oxygenates by 8260B

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

Project: 41050001FA20

Conoco Phillips #4186

Received: 01/09/2004 17:25

Site: 1771 First St., Livermore

Prep(s): 5030B Test(s): 8260FAB
 Sample ID: U-3 Lab ID: 2004-01-0260 - 2
 Sampled: 01/08/2004 10:18 Extracted: 1/20/2004 16:13
 Matrix: Water QC Batch#: 2004/01/20-1B-64
 Analysis Flag: 0 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	17000	10000	ug/L	200.00	01/20/2004 16:13	
Benzene	250	100	ug/L	200.00	01/20/2004 16:13	
Toluene	ND	100	ug/L	200.00	01/20/2004 16:13	
Ethylbenzene	770	100	ug/L	200.00	01/20/2004 16:13	
Total xylenes	1500	200	ug/L	200.00	01/20/2004 16:13	
tert-Butyl alcohol (TBA)	ND	20000	ug/L	200.00	01/20/2004 16:13	
Methyl tert-butyl ether (MTBE)	9700	400	ug/L	200.00	01/20/2004 16:13	
Di-isopropyl Ether (DIPE)	ND	400	ug/L	200.00	01/20/2004 16:13	
Ethyl tert-butyl ether (ETBE)	ND	400	ug/L	200.00	01/20/2004 16:13	
tert-Amyl methyl ether (TAME)	ND	400	ug/L	200.00	01/20/2004 16:13	
1,2-DCA	ND	400	ug/L	200.00	01/20/2004 16:13	
EDB	ND	400	ug/L	200.00	01/20/2004 16:13	
Ethanol	ND	100000	ug/L	200.00	01/20/2004 16:13	
Surrogate(s)						
1,2-Dichloroethane-d4	89.5	76-114	%	200.00	01/20/2004 16:13	
Toluene-d8	88.9	88-110	%	200.00	01/20/2004 16:13	

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience

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Irvine, CA 92718

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Project: 41050001FA20

Conoco Phillips #4186

Received: 01/09/2004 17:25

Site: 1771 First St., Livermore

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	U-7	Lab ID:	2004-01-0260 - 3
Sampled:	01/08/2004 10:06	Extracted:	1/21/2004 13:25
Matrix:	Water	QC Batch#:	2004/01/21-1B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	1600	100	ug/L	2.00	01/21/2004 13:25	
Benzene	4.0	1.0	ug/L	2.00	01/21/2004 13:25	
Toluene	ND	1.0	ug/L	2.00	01/21/2004 13:25	
Ethylbenzene	4.2	1.0	ug/L	2.00	01/21/2004 13:25	
Total xylenes	8.7	2.0	ug/L	2.00	01/21/2004 13:25	
Methyl tert-butyl ether (MTBE)	56	4.0	ug/L	2.00	01/21/2004 13:25	
Ethanol	ND	1000	ug/L	2.00	01/21/2004 13:25	
Surrogate(s)						
1,2-Dichloroethane-d4	112.2	76-114	%	2.00	01/21/2004 13:25	
Toluene-d8	92.2	88-110	%	2.00	01/21/2004 13:25	

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Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience

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Project: 41050001FA20

Conoco Phillips #4186

Received: 01/09/2004 17:25

Site: 1771 First St., Livermore

Prep(s): 5030B Test(s): 8260FAB
 Sample ID: U-6 Lab ID: 2004-01-0260 - 4
 Sampled: 01/08/2004 08:55 Extracted: 1/19/2004 23:03
 Matrix: Water QC Batch#: 2004/01/19-2A.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	3500	500	ug/L	10.00	01/19/2004 23:03	
Benzene	29	5.0	ug/L	10.00	01/19/2004 23:03	
Toluene	32	5.0	ug/L	10.00	01/19/2004 23:03	
Ethylbenzene	90	5.0	ug/L	10.00	01/19/2004 23:03	
Total xylenes	89	10	ug/L	10.00	01/19/2004 23:03	
Methyl tert-butyl ether (MTBE)	27	20	ug/L	10.00	01/19/2004 23:03	
Ethanol	ND	5000	ug/L	10.00	01/19/2004 23:03	
Surrogate(s)						
1,2-Dichloroethane-d4	90.1	76-114	%	10.00	01/19/2004 23:03	
Toluene-d8	87.8	88-110	%	10.00	01/19/2004 23:03	sl

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 41050001FA20

Conoco Phillips #4186

Received: 01/09/2004 17:25

Site: 1771 First St., Livermore

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	U-2	Lab ID:	2004-01-0260 - 5
Sampled:	01/08/2004 10:44	Extracted:	1/19/2004 23:26
Matrix:	Water	QC Batch#:	2004/01/19-2A.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	01/19/2004 23:26	
Benzene	ND	0.50	ug/L	1.00	01/19/2004 23:26	
Toluene	ND	0.50	ug/L	1.00	01/19/2004 23:26	
Ethylbenzene	0.51	0.50	ug/L	1.00	01/19/2004 23:26	
Total xylenes	ND	1.0	ug/L	1.00	01/19/2004 23:26	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	01/19/2004 23:26	
Ethanol	ND	500	ug/L	1.00	01/19/2004 23:26	
Surrogate(s)						
1,2-Dichloroethane-d4	90.7	76-114	%	1.00	01/19/2004 23:26	
Toluene-d8	88.9	88-110	%	1.00	01/19/2004 23:26	

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Gas/BTEX Fuel Oxygenates by 8260B

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Project: 41050001FA20

Conoco Phillips #4186

Received: 01/09/2004 17:25

Site: 1771 First St., Livermore

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	U-4	Lab ID:	2004-01-0260 - 6
Sampled:	01/08/2004 09:42	Extracted:	1/19/2004 23:48
Matrix:	Water	QC Batch#:	2004/01/19-2A.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	01/19/2004 23:48	
Benzene	0.55	0.50	ug/L	1.00	01/19/2004 23:48	
Toluene	ND	0.50	ug/L	1.00	01/19/2004 23:48	
Ethylbenzene	1.6	0.50	ug/L	1.00	01/19/2004 23:48	
Total xylenes	3.7	1.0	ug/L	1.00	01/19/2004 23:48	
Methyl tert-butyl ether (MTBE)	2.5	2.0	ug/L	1.00	01/19/2004 23:48	
Ethanol	ND	500	ug/L	1.00	01/19/2004 23:48	
Surrogate(s)						
1,2-Dichloroethane-d4	90.8	76-114	%	1.00	01/19/2004 23:48	
Toluene-d8	91.8	88-110	%	1.00	01/19/2004 23:48	

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 41050001FA20

Conoco Phillips #4186

Received: 01/09/2004 17:25

Site: 1771 First St., Livermore

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	U-5	Lab ID:	2004-01-0260 - 7
Sampled:	01/08/2004 09:32	Extracted:	1/20/2004 00:10
Matrix:	Water	QC Batch#:	2004/01/19-2A.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	01/20/2004 00:10	
Benzene	ND	0.50	ug/L	1.00	01/20/2004 00:10	
Toluene	ND	0.50	ug/L	1.00	01/20/2004 00:10	
Ethylbenzene	1.1	0.50	ug/L	1.00	01/20/2004 00:10	
Total xylenes	2.7	1.0	ug/L	1.00	01/20/2004 00:10	
Methyl tert-butyl ether (MTBE)	17	2.0	ug/L	1.00	01/20/2004 00:10	
Ethanol	ND	500	ug/L	1.00	01/20/2004 00:10	
Surrogate(s)						
1,2-Dichloroethane-d4	91.6	76-114	%	1.00	01/20/2004 00:10	
Toluene-d8	90.0	88-110	%	1.00	01/20/2004 00:10	

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Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience

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Project: 41050001FA20

Conoco Phillips #4186

Received: 01/09/2004 17:25

Site: 1771 First St., Livermore

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2004/01/19-2A.64-045

Water

Test(s): 8260FAB

QC Batch # 2004/01/19-2A.64

Date Extracted: 01/19/2004 18:45

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	01/19/2004 18:45	
tert-Butyl alcohol (TBA)	ND	100	ug/L	01/19/2004 18:45	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	01/19/2004 18:45	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	01/19/2004 18:45	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	01/19/2004 18:45	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	01/19/2004 18:45	
1,2-DCA	ND	2.0	ug/L	01/19/2004 18:45	
EDB	ND	2.0	ug/L	01/19/2004 18:45	
Benzene	ND	0.5	ug/L	01/19/2004 18:45	
Toluene	ND	0.5	ug/L	01/19/2004 18:45	
Ethylbenzene	ND	0.5	ug/L	01/19/2004 18:45	
Total xylenes	ND	1.0	ug/L	01/19/2004 18:45	
Ethanol	ND	500	ug/L	01/19/2004 18:45	
Surrogates(s)					
1,2-Dichloroethane-d4	86.8	76-114	%	01/19/2004 18:45	
Toluene-d8	88.2	88-110	%	01/19/2004 18:45	

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience

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Project: 41050001FA20

Conoco Phillips #4186

Received: 01/09/2004 17:25

Site: 1771 First St., Livermore

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2004/01/20-1B.64-056

Water

Test(s): 8260FAB

QC Batch # 2004/01/20-1B.64

Date Extracted: 01/20/2004 10:56

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	01/20/2004 10:56	
tert-Butyl alcohol (TBA)	ND	100	ug/L	01/20/2004 10:56	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	01/20/2004 10:56	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	01/20/2004 10:56	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	01/20/2004 10:56	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	01/20/2004 10:56	
1,2-DCA	ND	2.0	ug/L	01/20/2004 10:56	
EDB	ND	2.0	ug/L	01/20/2004 10:56	
Benzene	ND	0.5	ug/L	01/20/2004 10:56	
Toluene	ND	0.5	ug/L	01/20/2004 10:56	
Ethylbenzene	ND	0.5	ug/L	01/20/2004 10:56	
Total xylenes	ND	1.0	ug/L	01/20/2004 10:56	
Ethanol	ND	500	ug/L	01/20/2004 10:56	
Surrogates(s)					
1,2-Dichloroethane-d4	81.8	76-114	%	01/20/2004 10:56	
Toluene-d8	89.2	88-110	%	01/20/2004 10:56	

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Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience

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

Project: 41050001FA20

Conoco Phillips #4186

Received: 01/09/2004 17:25

Site: 1771 First St., Livermore

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2004/01/21-1B.66-016

Water

Test(s): 8260FAB

QC Batch # 2004/01/21-1B.66

Date Extracted: 01/21/2004 11:16

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	01/21/2004 11:16	
tert-Butyl alcohol (TBA)	ND	100	ug/L	01/21/2004 11:16	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	01/21/2004 11:16	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	01/21/2004 11:16	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	01/21/2004 11:16	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	01/21/2004 11:16	
1,2-DCA	ND	2.0	ug/L	01/21/2004 11:16	
EDB	ND	2.0	ug/L	01/21/2004 11:16	
Benzene	ND	0.5	ug/L	01/21/2004 11:16	
Toluene	ND	0.5	ug/L	01/21/2004 11:16	
Ethylbenzene	ND	0.5	ug/L	01/21/2004 11:16	
Total xylenes	ND	1.0	ug/L	01/21/2004 11:16	
Ethanol	ND	500	ug/L	01/21/2004 11:16	
Surrogates(s)					
1,2-Dichloroethane-d4	99.8	76-114	%	01/21/2004 11:16	
Toluene-d8	93.8	88-110	%	01/21/2004 11:16	

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience

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Project: 41050001FA20

Conoco Phillips #4186

Received: 01/09/2004 17:25

Site: 1771 First St., Livermore

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike

Water

QC Batch # 2004/01/19-2A.64

LCS 2004/01/19-2A.64-001

Extracted: 01/19/2004

Analyzed: 01/19/2004 18:01

LCSD 2004/01/19-2A.64-023

Extracted: 01/19/2004

Analyzed: 01/19/2004 18:23

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	21.5	21.4	25	86.0	85.6	0.5	65-165	20		
Benzene	23.5	23.0	25	94.0	92.0	2.2	69-129	20		
Toluene	24.0	22.8	25	96.0	91.2	5.1	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	415	411	500	83.0	82.2		76-114			
Toluene-d8	450	445	500	90.0	89.0		88-110			

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Gas/BTEX Fuel Oxygenates by 8260B

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Project: 41050001FA20

Conoco Phillips #4186

Received: 01/09/2004 17:25

Site: 1771 First St., Livermore

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike

Water

QC Batch # 2004/01/20-1B.64

LCS 2004/01/20-1B.64-018

Extracted: 01/20/2004

Analyzed: 01/20/2004 11:18

LCSD 2004/01/20-1B.64-040

Extracted: 01/20/2004

Analyzed: 01/20/2004 11:40

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	20.4	22.2	25	81.6	88.8	8.5	65-165	20		
Benzene	22.3	23.6	25	89.2	94.4	5.7	69-129	20		
Toluene	22.0	23.7	25	88.0	94.8	7.4	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	411	416	500	82.2	83.2		76-114			
Toluene-d8	440	443	500	88.0	88.6		88-110			

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Irvine, CA 92718

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

Project: 41050001FA20

Conoco Phillips #4186

Received: 01/09/2004 17:25

Site: 1771 First St., Livermore

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike

Water

QC Batch # 2004/01/21-1B.66

LCS 2004/01/21-1B.66-041

Extracted: 01/21/2004

Analyzed: 01/21/2004 11:41

LCSD 2004/01/21-1B.66-005

Extracted: 01/21/2004

Analyzed: 01/21/2004 12:05

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	17.7	17.6	25	70.8	70.4	0.6	65-165	20		
Benzene	18.9	17.9	25	75.6	71.6	5.4	69-129	20		
Toluene	19.1	18.9	25	76.4	75.6	1.1	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	470	482	500	94.0	96.4		76-114			
Toluene-d8	479	474	500	95.8	94.8		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

01/27/2004 13:40

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 #4186

Received: 01/09/2004 17:25

Site: 1771 First St., Livermore

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Matrix Spike (MS / MSD)

Water

QC Batch # 2004/01/19-2A:64

U-5 >> MS

Lab ID: 2004-01-0260 - 007

MS: 2004/01/19-2A.64-032

Extracted: 01/20/2004

Analyzed: 01/20/2004 00:32

Dilution: 1.00

MSD: 2004/01/19-2A.64-054

Extracted: 01/20/2004

Analyzed: 01/20/2004 00:54

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	22.0	24.2	ND	25	88.0	96.8	9.5	69-129	20		
Toluene	22.6	24.1	ND	25	90.4	96.4	6.4	70-130	20		
Methyl tert-butyl ether	41.7	40.1	16.8	25	99.6	93.2	6.6	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	465	425		500	93.0	85.0		76-114			
Toluene-d8	435	450		500	87.0	90.0		88-110		mso	

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Conoco Phillips #4186

Received: 01/09/2004 17:25

Site: 1771 First St., Livermore

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.

mso

MS/MSD spike recoveries were out of QC limits due to matrix interference. Precision and Accuracy were verified by LCS/LCSD.

sl

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

Severn Trent Laboratories, Inc.

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

01/27/2004 13:40

STL San Francisco

Sample Receipt Checklist

Submission #: 2004- 01 - 0260

Checklist completed by: (Initials) ASH Date: 01/10/04

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: 2.5 °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: * 1 voa rec'd broken for U-1; 2 vvas remain intact

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): _____

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
DATE: 1/8/04
PAGE: 1 of 1
ConocoPhillips Cust Object

SAMPLING COMPANY: TRC		Valid Value ID:	CONOCOPHILLIPS SITE NUMBER: 4186		GLOBAL ID NO.: T0400161777
ADDRESS: 21 Technology Drive, Irvine CA 92618			SITE ADDRESS (Street and City): 1771 FIRST ST. LIVERMORE		CONOCOPHILLIPS SITE MANAGER:
PROJECT CONTACT (Hardcopy or PDF Report to): Anju Farfan			EDF DELIVERABLE TO (RP or Designee): Peter Thomson, TRC pthomson@trcsolutions.com		PHONE NO.: 949-341-7408
TELEPHONE: 949-341-7440	FAX: 949-753-0111	E-MAIL: afarfan@trcsolutions.com	E-MAIL:		LAB USE ONLY
SAMPLER NAME(S) (Print): LYDELL		CONSULTANT PROJECT NUMBER: 41050001/FA20		REQUESTED ANALYSES	

TURNAROUND TIME (CALENDAR DAYS):
 14 DAYS 7 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED
 RUN 8 OXYS BY B260 ON B260 MTR
 HIT, 4-3 ONLY.

* Field Point name only required if different from Sample ID

LAB USE ONLY	Sample Identification/Field Point 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 <input type="checkbox"/> Total <input type="checkbox"/> DTCLP	TPH BY B260 B	BTEX/MBE BY B260 B	ETHANOL BY B260 B	8 OXYS BY B260 ON B260	MTR HIT	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes 2-5	TEMPERATURE ON RECEIPT °C
		DATE	TIME																	
✓	4-1	01/08/04	1030	BLW	3									X	X	X				
✓	4-3		101P														X			
✓	4-7		1006																	
✓	4-6		0455																	
✓	4-2		1049																	
✓	4-4		0442																	
✓	4-5		0932																	

Relinquished by: (Signature) 	Received by: (Signature) 	Date: 1/8/04	Time: 1001
Relinquished by: (Signature) 	Received by: (Signature) 	Date: 1-9-04	Time: 1725

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.