



Customer-Focused Solutions

December 15, 2003

ConocoPhillips Company
76 Broadway
Sacramento, CA 95818

ATTN: MR. DAVID B. DeWITT

SITE: 76 STATION 4186
1771 FIRST STREET
LIVERMORE, CALIFORNIA

RE: QUARTERLY MONITORING REPORT
OCTOBER THROUGH DECEMBER 2003

Dear Mr. DeWitt:

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. ^{DD}~~Eva~~ Chu, Alameda County Health Care Services
Ms. Carol Mahoney, Zone 7 Water Zone
Ms. Barbara Moed, TRC

Enclosures
20-0400/4186R01.QMS.doc



Customer-Focused Solutions

**FOURTH QUARTER 2003
FLUID LEVEL MONITORING AND
GROUNDWATER SAMPLING REPORT**

December 15, 2003

76 STATION 4186
1771 First Street
Livermore, California

Prepared For:

Mr. David B. DeWitt
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 Concentrations 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
Disposal Documents	Statement of Authorized Transportation and Disposal
Statement	Limitations

**Summary of Gauging and Sampling Activities
 October 2003 through December 2003
 76 Station 4186
 1771 First Street
 Livermore, CA**

Site Information:

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

Field Activity:

Sampling consultant:	TRC
Date(s) sampled:	10/3/03
Groundwater wells gauged:	7
Groundwater wells sampled:	7
Purging method:	hand bail
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):	25.31
Maximum depth to groundwater (feet bgs):	37.72
Average groundwater elevation (feet relative to mean sea level):	445.41
Average change in groundwater elevations since previous event (feet):	-2.39
Groundwater gradient and flow direction:	*see additional info.
Previous gradient and/or flow direction (and date):	0.1 ft/ft, west (7/1/03)

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:	3
Minimum benzene concentration (µg/l):	ND
Maximum benzene concentration (µg/l):	170 (U-3)
Minimum MTBE concentration (µg/l):	ND
Maximum MTBE concentration (µg/l):	16000 (U-3)
Minimum TPPH concentration (µg/l):	ND
Maximum TPPH concentration (µg/l):	20000 (U-3)
Groundwater wells with free product:	0
Minimum free product thickness (feet):	0
Maximum free product thickness (feet):	0

Additional Information:

* Groundwater contours indicate radial flow away from well U-2.

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
October 3, 2003
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)													
10/3/03	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	
U-2	(Screen Interval in feet: 13.0-34.0)													
10/3/03	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	
U-3	(Screen Interval in feet: 14.0-34.0)													
10/3/03	478.46	26.59	0.00	451.87	-0.58	--	20000	170	ND<50	250	730	--	16000	
U-4	(Screen Interval in feet: 35.0-45.0)													
10/3/03	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	
U-5	(Screen Interval in feet: 37.0-47.0)													
10/3/03	476.51	37.72	0.00	438.79	-3.89	--	58	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	44	
U-6	(Screen Interval in feet: DNA)													
10/3/03	478.38	36.54	0.00	441.84	-3.66	--	ND<10000	140	ND<100	940	560	--	ND<400	
U-7	(Screen Interval in feet: DNA)													
10/3/03	478.74	35.84	0.00	442.90	-2.37	--	6500	30	ND<5.0	41	ND<10	--	53	

Table 2
HISTORIC GROUNDWATER LEVELS AND CHEMICAL ANALYSIS RESULTS

July 1998 Through October 2003

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
TRIP BLANK (Screen Interval in feet: DNA)														
7/13/1998	--	--	0.00	--	--	ND	--	ND	ND	ND	ND	ND	--	
10/7/1998	--	--	0.00	--	--	ND	--	ND	ND	ND	ND	ND	--	
1/15/1999	--	--	0.00	--	--	ND	--	ND	ND	ND	ND	ND	--	
4/14/1999	--	--	0.00	--	--	ND	--	ND	ND	ND	ND	ND	--	
7/19/1999	--	--	0.00	--	--	ND	--	ND	ND	ND	ND	ND	--	
10/12/1999	--	--	0.00	--	--	ND	--	ND	ND	ND	ND	ND	--	
1/24/2000	--	--	0.00	--	--	ND	--	ND	ND	ND	ND	ND	--	
4/10/2000	--	--	0.00	--	--	ND	--	ND	ND	ND	ND	ND	--	
7/17/2000	--	--	0.00	--	--	ND	--	ND	ND	ND	ND	ND	--	
10/2/2000	--	--	0.00	--	--	ND	--	ND	ND	ND	ND	ND	--	
1/8/2001	--	--	0.00	--	--	ND	--	ND	ND	ND	ND	ND	--	
4/3/2001	--	--	0.00	--	--	ND	--	ND	ND	ND	ND	ND	--	
7/2/2001	--	--	0.00	--	--	ND	--	ND	ND	ND	ND	ND	--	
10/8/2001	--	--	0.00	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5	--	
1/3/2002	--	--	0.00	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5	--	
4/5/2002	--	--	0.00	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
7/2/2002	--	--	0.00	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1	--	ND<0.50	
10/1/2002	--	--	0.00	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1	--	ND<2	
12/30/2002	--	--	0.00	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1	--	ND<2	
5/2/2003	--	--	0.00	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1	--	ND<2	
7/1/2003	--	--	0.00	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1	--	ND<2	
U-1 (Screen Interval in feet: 14.0-34.0)														
10/7/1998	478.27	26.43	0.00	451.84	--	ND	--	ND	ND	ND	ND	ND	--	
1/15/1999	478.27	30.42	0.00	447.85	-3.99	ND	--	ND	ND	ND	1.1	7.3	--	
4/14/1999	478.27	24.21	0.00	454.06	6.21	ND	--	ND	ND	ND	ND	160	--	

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 continued														
7/19/1999	478.27	27.10	0.00	451.17	-2.89	ND	--	ND	ND	ND	ND	92	--	
10/12/1999	478.27	29.40	0.00	448.87	-2.30	ND	--	ND	ND	ND	ND	37	--	
1/24/2000	478.27	27.90	0.00	450.37	1.50	ND	--	ND	ND	ND	ND	28	--	
4/10/2000	478.27	26.16	0.00	452.11	1.74	ND	--	ND	0.93	ND	ND	ND	--	
7/17/2000	478.27	28.04	0.00	450.23	-1.88	ND	--	ND	ND	ND	ND	160	--	
10/2/2000	478.27	28.41	0.00	449.86	-0.37	ND	--	ND	ND	ND	ND	120	--	
1/8/2001	478.27	28.68	0.00	449.59	-0.27	ND	--	ND	ND	ND	ND	103	--	
4/3/2001	478.27	25.74	0.00	452.53	2.94	ND	--	ND	ND	ND	ND	55.1	--	
7/2/2001	478.27	30.67	0.00	447.60	-4.93	ND	--	ND	ND	ND	ND	ND	--	
10/8/2001	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	--	
1/3/2002	478.27	27.67	0.00	450.60	5.46	160	--	ND<0.50	0.51	ND<0.50	0.69	31	--	
4/5/2002	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	--	
7/2/2002	478.27	31.17	0.00	447.10	-1.77	1100	--	ND<0.50	1.7	0.73	130	--	35	
12/30/2002	478.27	22.03	0.00	456.24	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	1.2	--	90	
5/2/2003	478.27	24.13	0.00	454.14	-2.10	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1	--	50	
7/1/2003	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	
10/3/2003	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	
U-2 (Screen Interval in feet: 13.0-34.0)														
7/13/1998	477.44	23.52	0.00	453.92	--	1200	--	130	12	62	180	1100	--	
10/7/1998	477.44	25.31	0.00	452.13	-1.79	ND	--	ND	ND	ND	ND	160	--	
1/15/1999	477.44	30.22	0.00	447.22	-4.91	ND	--	ND	ND	ND	ND	280	--	
4/14/1999	477.44	24.50	0.00	452.94	5.72	ND	--	ND	ND	ND	ND	460	--	
7/19/1999	477.44	28.54	0.00	448.90	-4.04	ND	--	ND	ND	ND	ND	220	--	
10/12/1999	477.44	30.48	0.00	446.96	-1.94	ND	--	ND	ND	ND	ND	160	--	
1/24/2000	477.44	24.52	0.00	452.92	5.96	ND	--	ND	ND	ND	ND	150	--	
4/10/2000	477.44	23.68	0.00	453.76	0.84	ND	--	ND	ND	ND	ND	177	--	
7/17/2000	477.44	28.35	0.00	449.09	-4.67	ND	--	ND	ND	ND	ND	62.7	--	
10/2/2000	477.44	28.72	0.00	448.72	-0.37	ND	--	ND	ND	ND	ND	52	--	
1/8/2001	477.44	29.11	0.00	448.33	-0.39	ND	--	ND	ND	ND	ND	57.3	--	

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-2 continued														
4/3/2001	477.44	25.95	0.00	451.49	3.16	ND	--	ND	ND	ND	ND	30.2	--	
7/2/2001	477.44	29.01	0.00	448.43	-3.06	ND	--	ND	ND	ND	ND	16	--	
10/8/2001	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	--	
1/3/2002	477.44	27.33	0.00	450.11	3.61	260	--	7.7	11	1.7	15	42	--	
4/5/2002	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	--	
7/2/2002	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	
10/1/2002	477.44	32.00	0.00	445.44	-0.77	ND<50	--	ND<0.50	0.62	ND<0.50	ND<1	--	ND<2	
12/30/2002	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	
5/2/2003	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	
7/1/2003	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	
10/3/2003	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	
U-3 (Screen Interval in feet: 14.0-34.0)														
7/13/1998	477.44	23.52	0.00	453.92	--	70000	--	3100	5500	2700	16000	7500	--	
10/7/1998	477.44	25.31	0.00	452.13	-1.79	54000	--	5000	1100	3100	14000	6100	--	
1/15/1999	477.44	30.22	0.00	447.22	-4.91	41000	--	3100	ND	1800	3800	15000	--	
4/14/1999	477.44	24.50	0.00	452.94	5.72	33000	--	86	290	2200	7800	39000	--	
7/19/1999	477.44	28.54	0.00	448.90	-4.04	48000	--	3900	2500	3600	14000	12000	16000	
10/12/1999	477.44	30.48	0.00	446.96	-1.94	35000	--	4200	ND	2300	1800	22000	8300	
1/24/2000	477.44	24.52	0.00	452.92	5.96	13000	--	260	ND	770	3200	53000	42000	
4/10/2000	477.44	23.68	0.00	453.76	0.84	35200	--	1070	241	2820	8850	35600	40900	
7/17/2000	477.44	28.35	0.00	449.09	-4.67	29000	--	3570	525	3180	5660	22500	21000	
10/2/2000	477.44	28.72	0.00	448.72	-0.37	11000	--	2100	31	2000	780	25000	28000	
1/8/2001	477.44	29.11	0.00	448.33	-0.39	33600	--	3060	427	3040	4190	24700	30900	
4/3/2001	477.44	25.95	0.00	451.49	3.16	5390	--	660	10.8	304	356	15200	19300	
7/2/2001	477.44	29.01	0.00	448.43	-3.06	13000	--	1200	58	1300	930	25000	26000	
10/8/2001	477.44	30.94	0.00	446.50	-1.93	6100	--	500	ND<10	570	130	23000	22000	
1/3/2002	477.44	27.33	0.00	450.11	3.61	9900	--	700	130	24	1000	14000	12000	
4/5/2002	477.44	30.02	0.00	447.42	-2.69	9800	--	1100	180	220	1400	16000	30000	
7/2/2002	477.44	31.23	0.00	446.21	-1.21	ND<25000	--	ND<250	ND<250	ND<250	ND<500	12000	12000	

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-6 (Screen Interval in feet: DNA)														
1/3/2002	478.38	33.99	0.00	444.39	--	5000	--	36	ND<25	260	450	ND<250	ND<10	
4/5/2002	478.38	36.18	0.00	442.20	-2.19	1300	--	16	ND<5	54	ND<5	--	--	
7/2/2002	478.38	36.33	0.00	442.05	-0.15	1100	--	1.4	ND<0.50	16	ND<1	--	0.94	
10/1/2002	478.38	37.70	0.00	440.68	-1.37	2000	--	5.4	ND<0.50	62	ND<1	--	2.6	
12/30/2002	478.38	31.63	0.00	446.75	6.07	130	--	ND<0.50	ND<0.50	2.3	ND<1	--	ND<2	
5/2/2003	478.38	31.49	0.00	446.89	0.14	150	--	ND<0.50	ND<0.50	1.8	1.7	--	82	
7/1/2003	478.38	32.88	0.00	445.50	-1.39	190	--	1.8	ND<0.50	9.4	8.7	--	36	
10/3/2003	478.38	36.54	0.00	441.84	-3.66	--	ND<10000	140	ND<100	940	560	--	ND<400	
U-7 (Screen Interval in feet: DNA)														
1/3/2002	478.74	32.43	0.00	446.31	--	3100	--	93	ND<10	35	73	140	130	
4/5/2002	478.74	34.06	0.00	444.68	-1.63	630	--	22	0.53	2.6	ND<0.50	45	--	
7/2/2002	478.74	35.28	0.00	443.46	-1.22	1100	--	21	ND<0.50	6.9	ND<1	--	60	
10/1/2002	478.74	37.70	0.00	441.04	-2.42	1700	--	11	ND<0.50	3.1	ND<1	--	25	
12/30/2002	478.74	31.93	0.00	446.81	5.77	4600	--	41	5.3	32	13	--	34	
5/2/2003	478.74	31.81	0.00	446.93	0.12	3000	--	17	2.70	14	5.10	--	42	
7/1/2003	478.74	33.47	0.00	445.27	-1.66	2300	--	11	0.53	8.0	1.50	--	35	
10/3/2003	478.74	35.84	0.00	442.90	-2.37	--	6500	30	ND<5.0	41	ND<10	--	53	

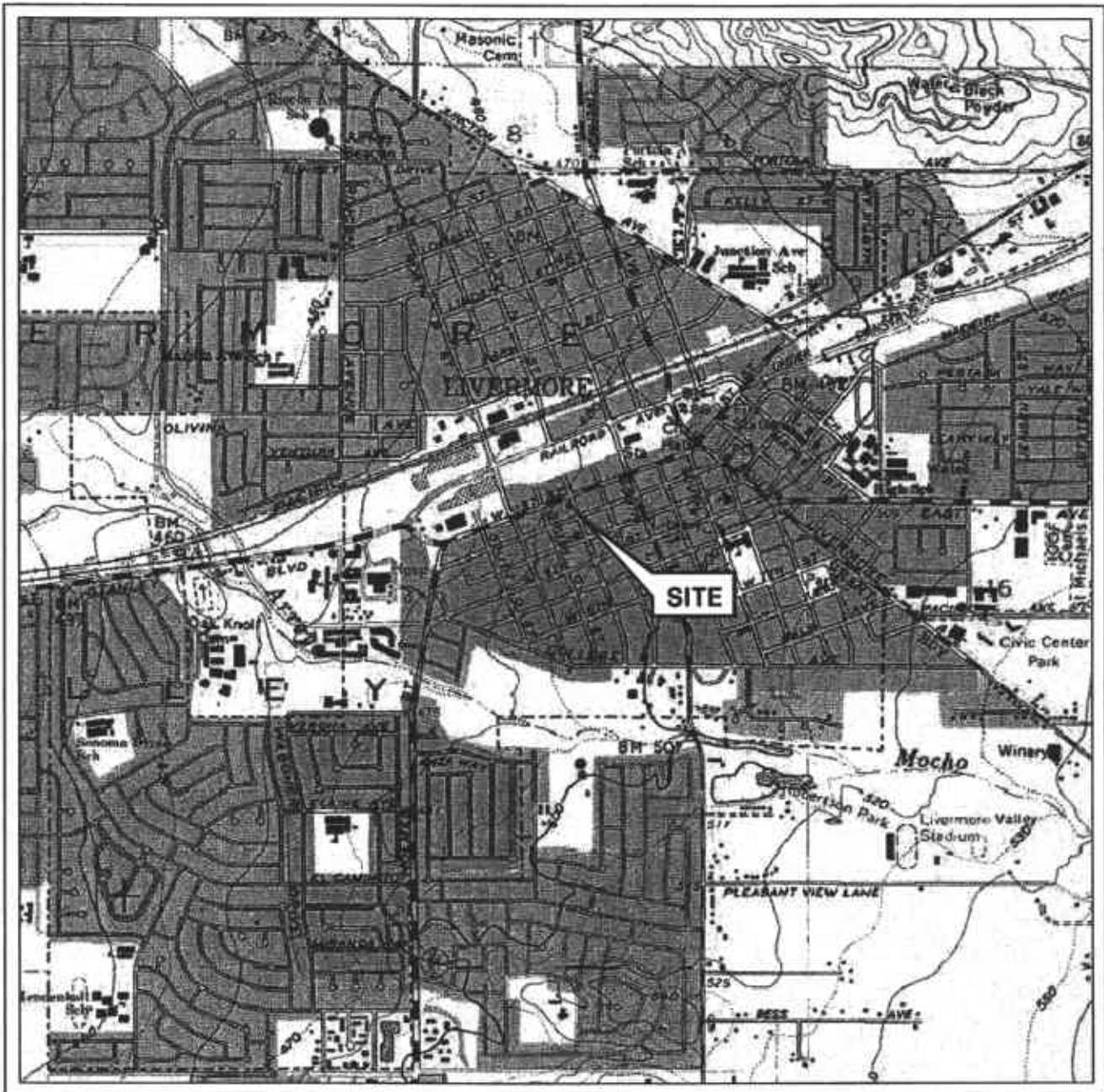
Table 3
SUMMARY OF ADDITIONAL CHEMICAL ANALYSIS RESULTS
76 Station 4186

Date Sampled	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												
10/2/00	--	--	--	--	--	ND	--	--	--	--	--	--
12/30/02	--	--	--	0.9	--	--	--	--	--	98	--	--
5/2/03	--	--	--	0.4	--	--	--	--	--	95	--	--
7/1/03	--	--	--	0.5	--	--	--	--	ND<500	115	--	--
10/3/03	--	--	--	--	--	--	--	--	--	--	ND<500	--
U-2												
10/2/00	--	--	--	--	--	ND	--	--	--	--	--	--
10/1/02	--	--	--	1.4	--	--	--	--	--	--	--	--
12/30/02	--	--	--	3.1	--	--	--	--	--	118	--	--
5/2/03	--	--	--	140	--	--	--	--	--	120	--	--
7/1/03	--	--	--	1.2	--	--	--	--	ND<500	100	--	--
10/3/03	--	--	--	--	--	--	--	--	--	--	ND<500	--
U-3												
10/2/00	--	--	--	--	--	63000	--	--	--	--	--	--
1/8/01	--	--	ND	--	ND	49300	ND	ND	ND	--	--	ND
4/3/01	--	--	ND	--	ND	22200	ND	ND	ND	--	--	ND
7/2/01	--	--	ND	--	ND	27000	ND	ND	ND	--	--	ND
10/8/01	--	--	ND<290	--	ND<290	33000	ND<290	ND<290	ND<140000	--	--	ND<290
1/3/02	--	--	ND<100	--	ND<100	17000	ND<100	ND<100	ND<50000	--	--	ND<100
4/5/02	--	--	ND<100	--	ND<100	66000	ND<100	ND<100	ND<25000	--	--	ND<100
7/2/02	--	--	ND<250	--	ND<250	47000	ND<500	ND<250	ND<13000	--	--	ND<250
10/1/02	--	--	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
5/2/03	--	--	ND<200	0.6	ND<200	25000	ND<200	ND<200	ND<50000	90	--	ND<200
7/1/03	--	--	ND<400	0.5	ND<400	32000	ND<400	ND<400	ND<100000	90	--	ND<400
10/3/03	ND<200	--	ND<200	--	ND<200	39000	ND<2.0	ND<200	--	--	ND<50000	--

Date Sampled	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-4												
4/3/01	--	ND	--	--	ND	ND	ND	ND	ND	--	--	ND
7/2/01	--	ND	--	--	ND	ND	ND	ND	ND	--	--	ND
1/3/02	--	ND<1	--	--	ND<1	ND<20	ND<1	ND<1	ND<500	--	--	ND<1
10/1/02	--	--	--	0.6	--	--	--	--	--	63	--	--
12/30/02	--	--	--	0.3	--	--	--	--	--	130	--	--
5/2/03	--	--	--	0.7	--	--	--	--	--	110	--	--
7/1/03	--	--	--	0.6	--	--	--	--	ND<500	120	--	--
10/3/03	--	--	--	--	--	--	--	--	--	--	ND<500	--
U-5												
4/3/01	--	--	ND	--	ND	ND	ND	ND	ND	--	--	ND
7/2/01	--	--	ND	--	ND	ND	ND	ND	ND	--	--	ND
10/8/01	--	--	ND<2	--	ND<2	ND<100	ND<2	ND<2	ND<1000	--	--	ND<2
1/3/02	--	--	ND<1	--	ND<1	ND<20	ND<1	ND<1	ND<500	--	--	ND<1
5/2/03	--	--	--	0.5	--	--	--	--	--	130	--	--
7/1/03	--	--	--	0.8	--	--	--	--	--	140	--	--
10/3/03	--	--	--	--	--	--	--	--	--	--	ND<500	--
U-6												
1/3/02	--	--	ND<10	--	ND<10	ND<200	ND<10	ND<10	ND<5000	--	--	ND<10
10/1/02	--	--	--	0.7	--	--	--	--	--	--	--	--
12/30/02	--	--	--	0.4	--	--	--	--	--	86	--	--
5/2/03	--	--	--	0.95	--	--	--	--	--	140	--	--
7/1/03	--	--	--	0.8	--	--	--	--	ND<500	110	--	--
10/3/03	--	--	--	--	--	--	--	--	--	--	ND<100000	--
U-7												
1/3/02	--	--	ND<1	--	ND<1	30	ND<1	ND<1	ND<500	--	--	ND<1
10/1/02	--	--	--	1.1	--	--	--	--	--	69	--	--
12/30/02	--	--	--	0.2	--	--	--	--	--	120	--	--
5/2/03	--	--	--	0.5	--	--	--	--	--	100	--	--
7/1/03	--	--	--	0.6	--	--	--	--	ND<500	90	--	--

Date Sampled	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-7 continued 10/3/03	--	--	--	--	--	--	--	--	--	--	ND<5000	--

FIGURES



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



SCALE 1:24,000



VICINITY MAP

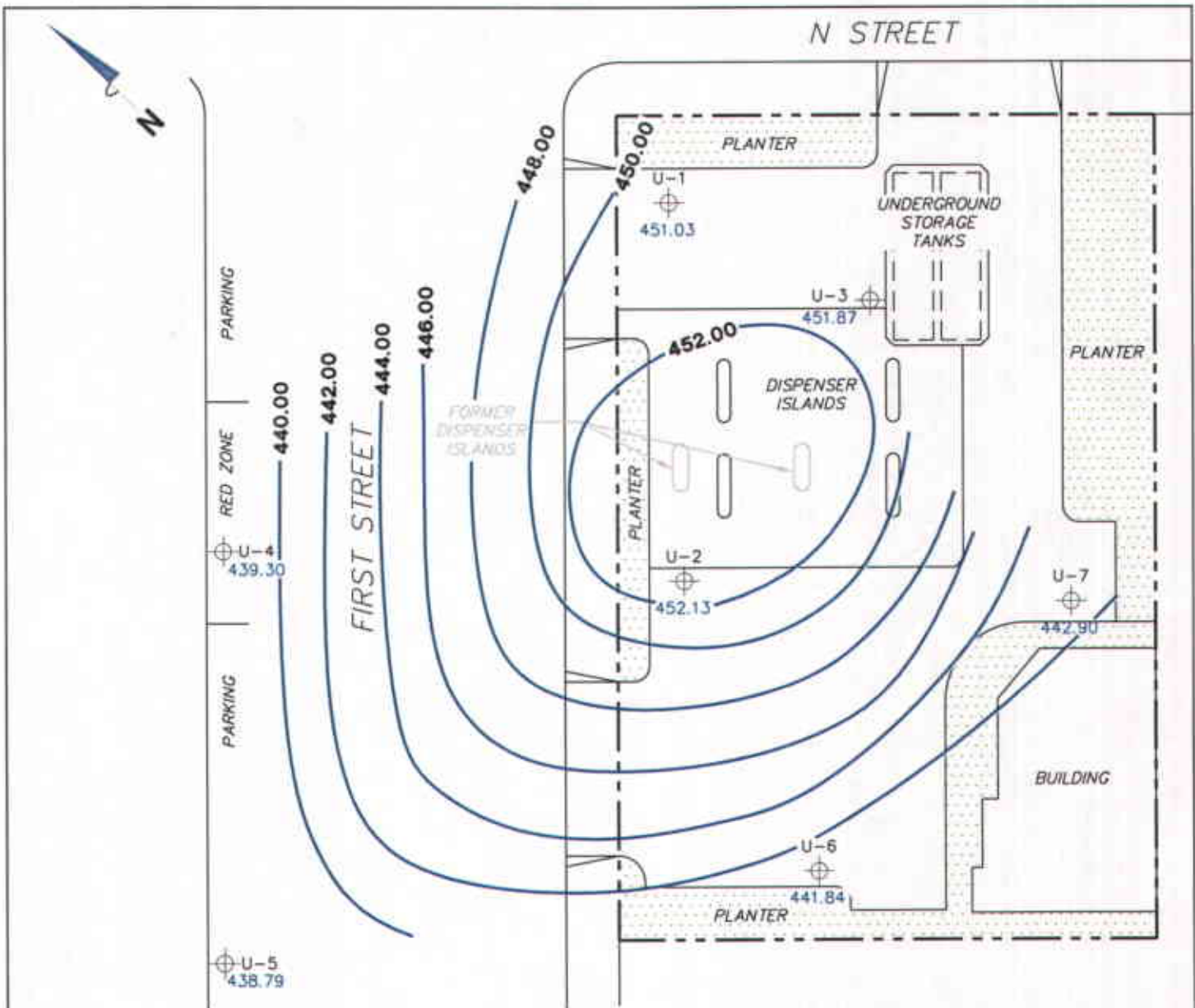
76 Station 4186
1771 First Street
Livermore, California

SOURCE:

United States Geological Survey
7.5 Minute Topographic Maps:
Livermore Quadrangle

FIGURE 1

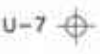
TRC




NOTES:

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

LEGEND

U-7  Monitoring Well with Groundwater Elevation (feet)

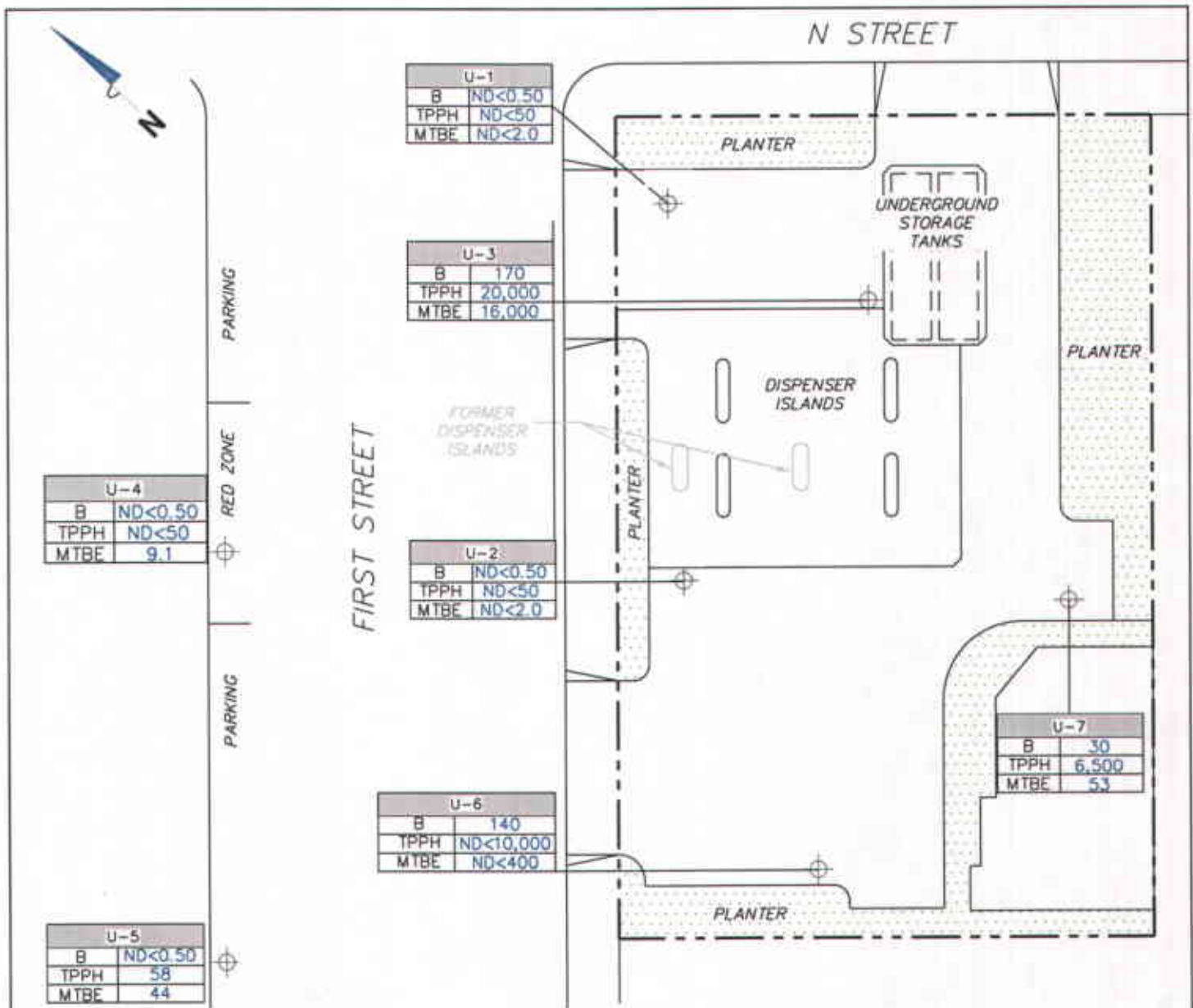
452.00  Groundwater Elevation Contour

**GROUNDWATER ELEVATION
CONTOUR MAP
October 3, 2003**

76 Station 4186
1771 First Street
Livermore, California



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. UST = underground storage tank. 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
October 3, 2003

76 Station 4186
1771 First Street
Livermore, California

TRC

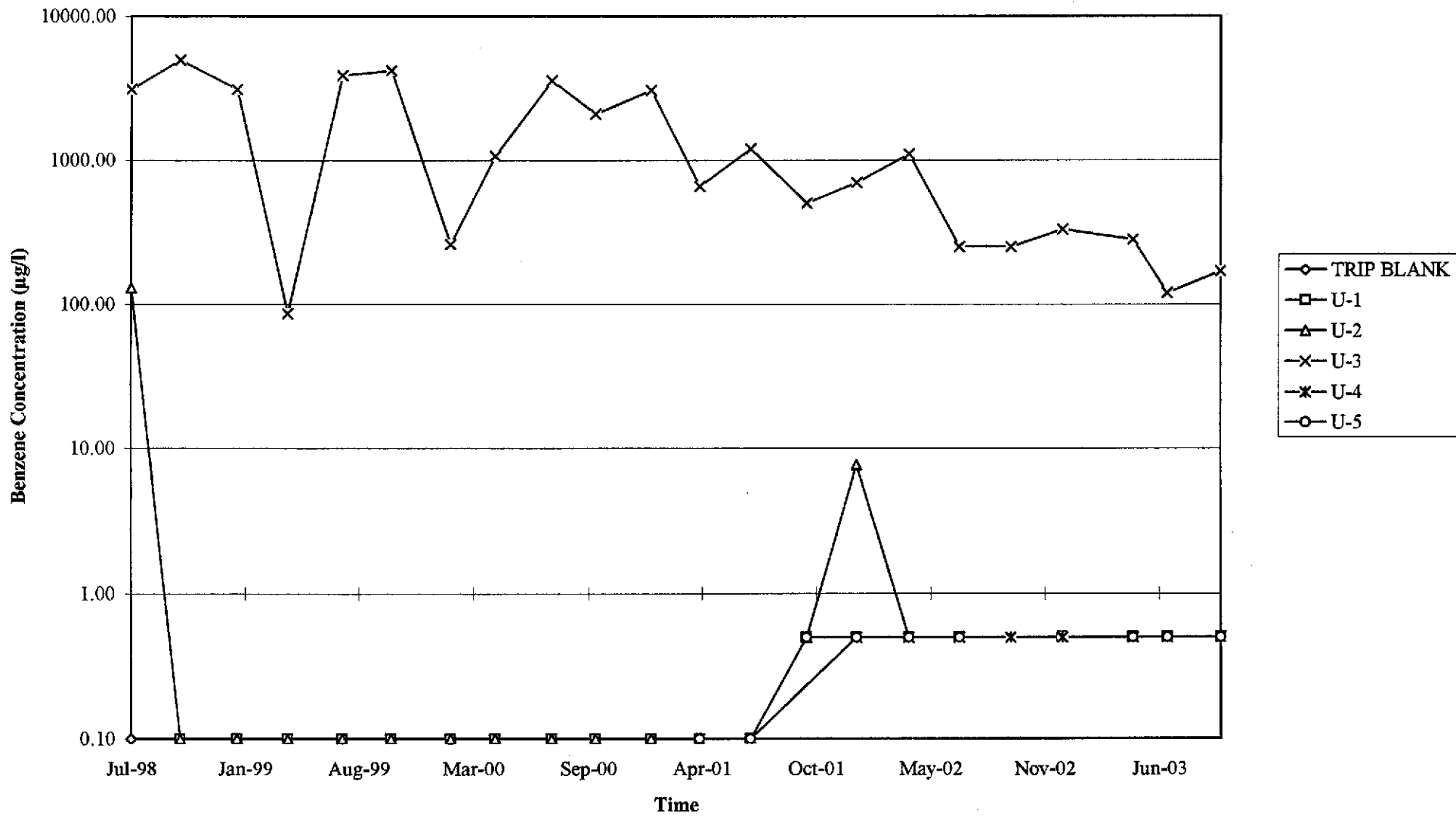
SCALE (FEET)



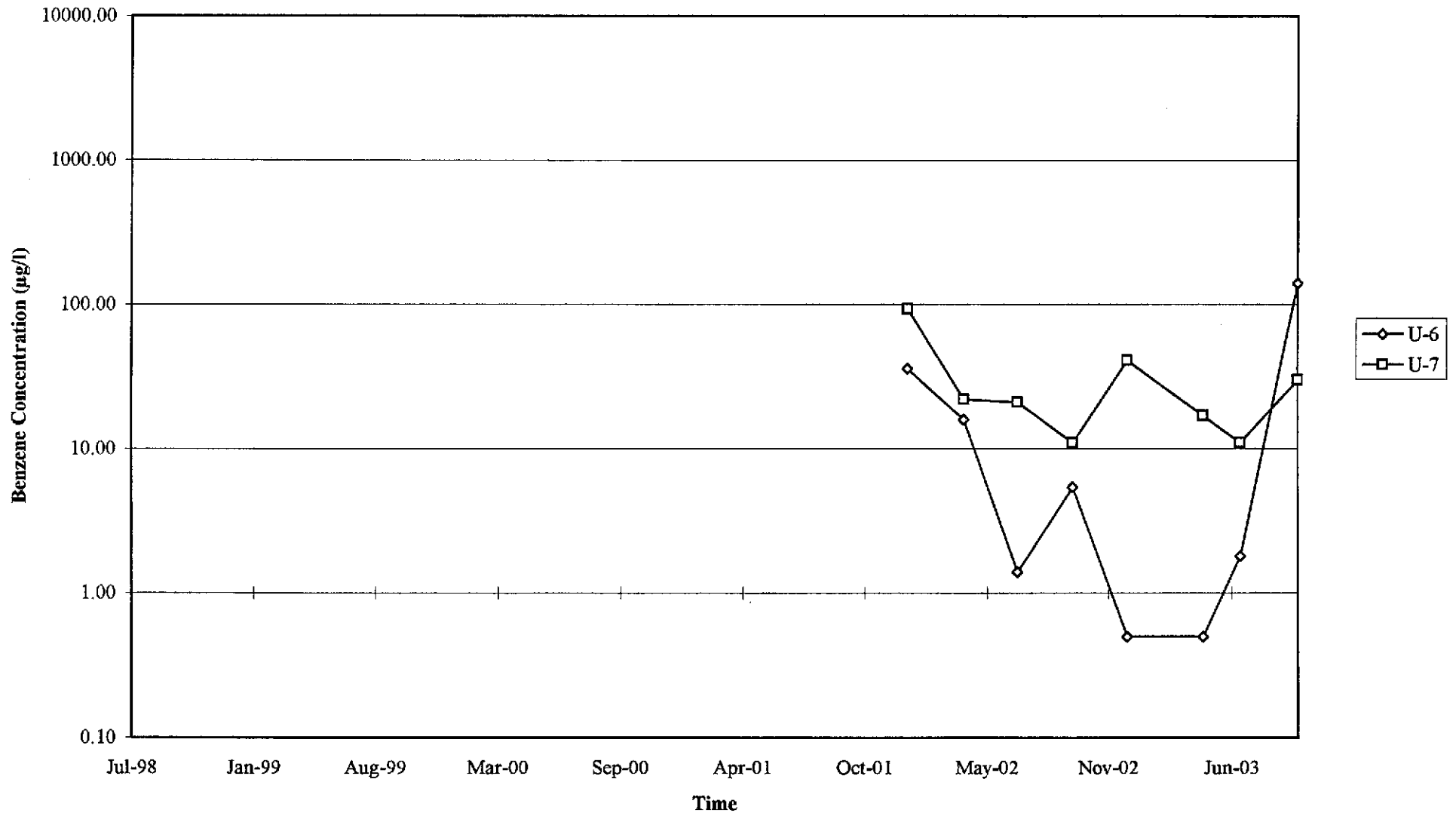
FIGURE 3

GRAPHS

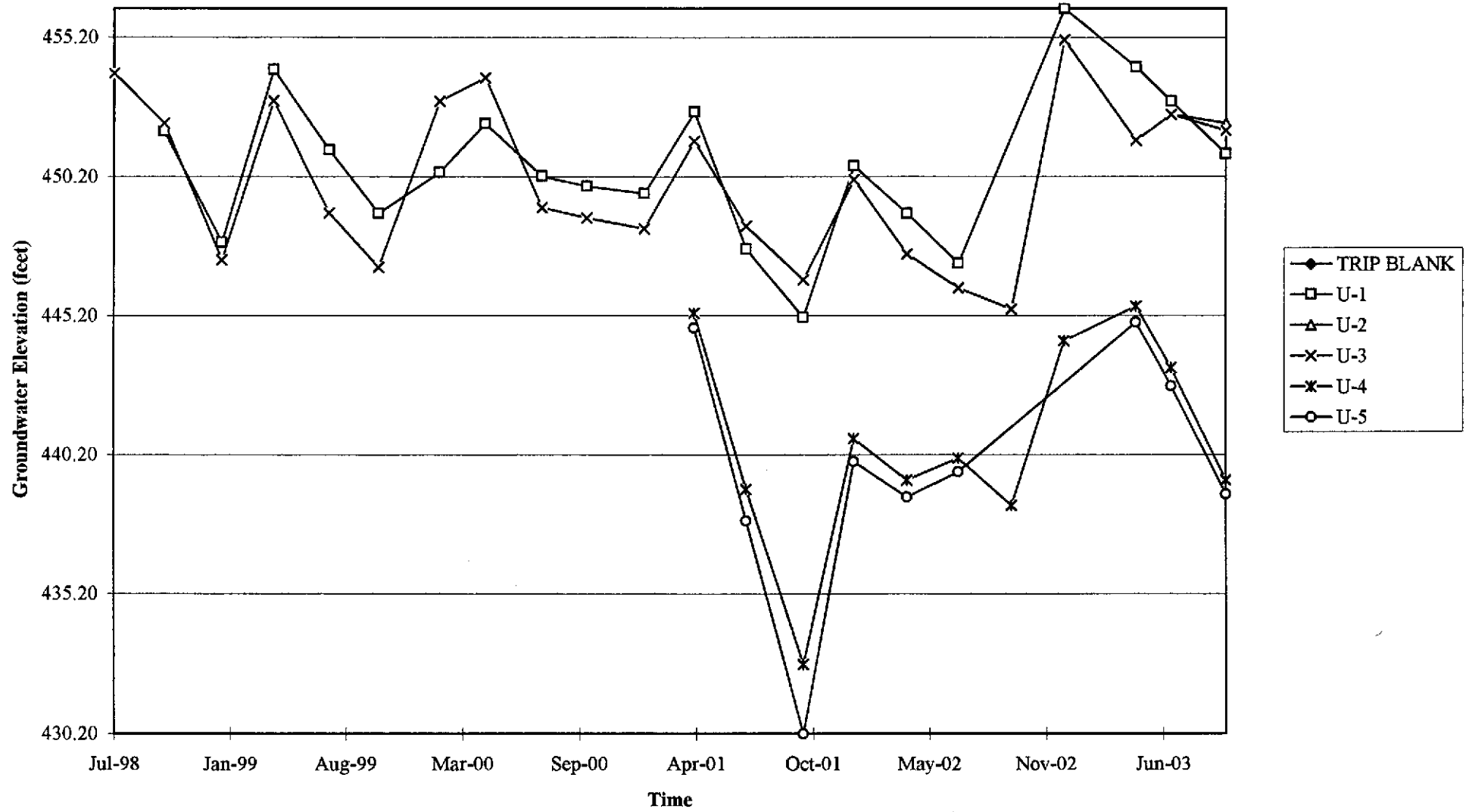
Graph 1
Benzene Concentrations vs. Time
76 Station 4186



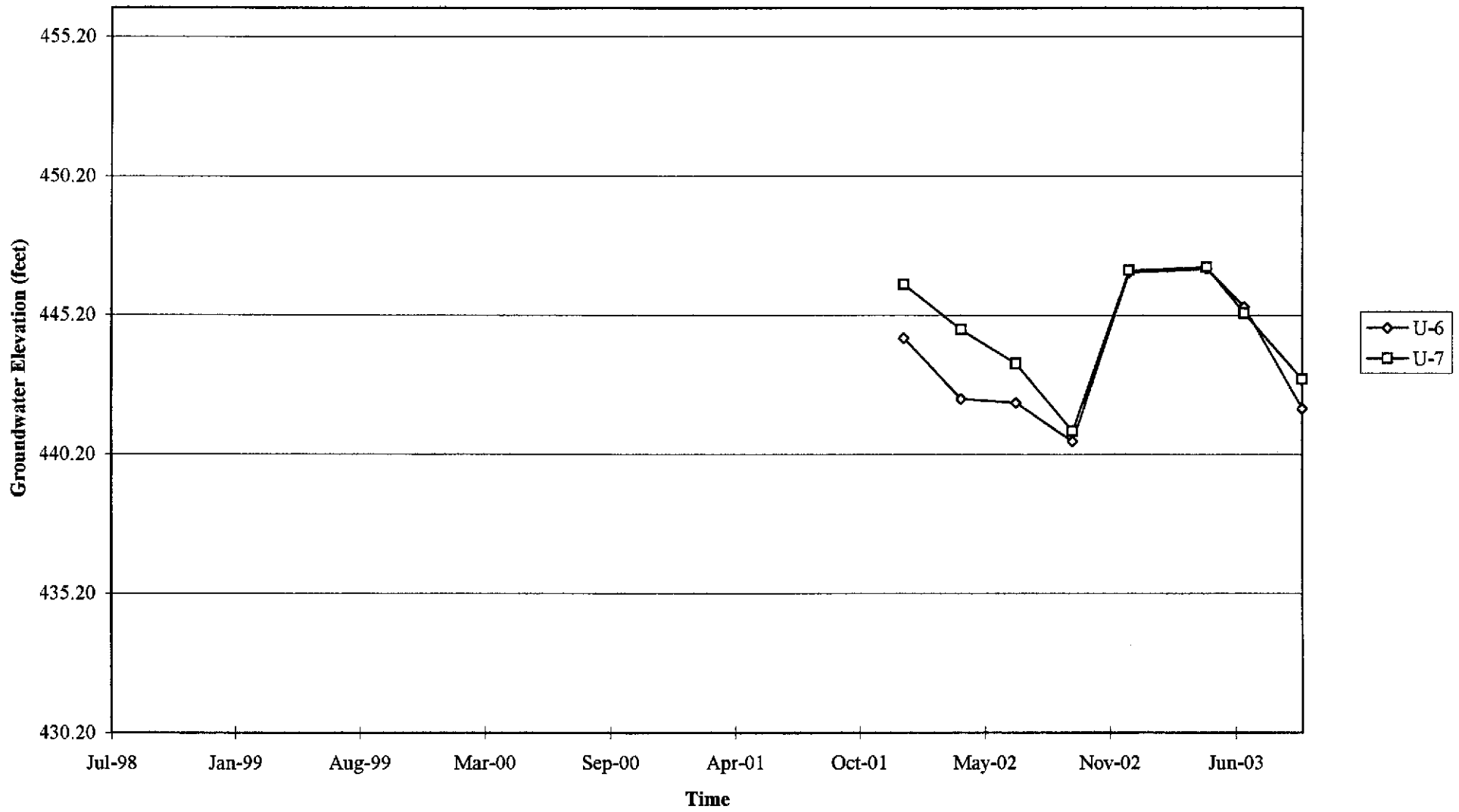
Graph 2
Benzene Concentrations vs. Time
76 Station 4186



Graph 3
Hydrograph
76 Station 4186



Graph 4
Hydrograph
76 Station 4186



GENERAL FIELD PROCEDURES

General field procedures used during fluid level monitoring and groundwater sampling activities are described below.

FLUID LEVEL MONITORING

Fluid levels are monitored in the wells using an electronic interface probe with conductance sensors. The depth to liquid-phase hydrocarbons (LPH) and water is measured relative to the well box top or top of casing. Well box or casing elevations are surveyed to within 0.02 foot relative to a county or city benchmark.

GROUNDWATER SAMPLING

Groundwater monitoring wells are purged and sampled in accordance with standard regulatory protocol. Typically, monitoring wells that contain no LPH are purged of groundwater prior to sampling so that fluids collected are representative of fluids within the formation. Temperature, pH, and specific conductance are typically measured after each well casing volume has been removed. Purging is considered complete when the specified number of casing volumes of fluid have been removed and the three (3) parameters (pH, conductivity, and temperature) have stabilized (see groundwater sampling field notes for volume removed). Samples for laboratory analysis are collected without further purging if the well does not recharge within 2 hours to 80% of its volume before purging.

The purge water is either (1) pumped directly into a licensed vacuum truck; or (2) treated and disposed onsite using the TRC Alton Geoscience Mobile Groundwater Treatment Trailer; or (3) temporarily stored in labeled drums prior to transport to a treatment/recycling facility. If an automatic recovery system (ARS) is operating at the site, purged water may be pumped into the ARS for treatment.

In monitoring wells that are purged and contain measurable LPH, the purged water and LPH removed from wells will be either pumped directly into a licensed vacuum truck and removed from the site, or temporarily stored in labeled drums pending transport to an approved treatment/recycling facility.

With respect to wells that have been designated as "no purge", the wells will be sampled without bailing or pumping fluids from the well prior to collecting the sample. In addition, no purge samples are typically collected from active pumping wells.

GROUNDWATER SAMPLE COLLECTION

Groundwater samples are collected by lowering a ½ to 4-inch-diameter, bottom-fill, disposable polyethylene bailer to just below the static water level in the well. The samples are carefully transferred from the check-valve-equipped bailer to the container specified by the laboratory method. The sample containers are filled to zero headspace and fitted with Teflon-sealed caps. Each sample is labeled with the project number, well number, sample date, and sampler's initials, then transported to a state-certified laboratory for analysis. Samples remain chilled prior to and during shipment to an analytical laboratory.

Chain of custody protocol is followed for all groundwater samples selected for laboratory analysis. The chain of custody form(s) accompanies the samples from the sampling locality to the laboratory, providing a continuous record of possession prior to analysis. When a freight or overnight carrier ships samples, the carrier is noted on the chain of custody form.

DECONTAMINATION

Nitrile gloves are worn at all times during monitoring, sampling, and purging activities. Typically, gloves are changed between each well. All monitoring, sampling, and purging equipment that could contact well fluids is either dedicated to a particular well or cleaned prior to each use in a Liqui-nox solution followed by two rinses: the first rinse in tap water and the final rinse in deionized water.

GROUNDWATER SAMPLING FIELD NOTES

Technician: ES

Site: 4186

Project No.: 410500-01

Date: 10-03-03

Well No. U-1

Purge Method: H.B.

Depth to Water (feet): 27.24

Depth to Product (feet): 0

Total Depth (feet) 33.70

LPH & Water Recovered (gallons): 0

Water Column (feet): 6.46

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 28.53

Borehole Diameter (Inches): _____

1 Borehole Volume (gallons): 1

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F/C)	pH	Turbidity or P	D.O.
0609			1	1.13	64.8	7.08	315	3.56
			2	1.14	66.7	7.07	321	3.66
	0617		3	1.16	66.9	7.09	329	3.79
Static at Time Sampled		Total Gallons Purged			Sample Time			
		<u>3</u>			<u>0835</u>			
Comments: <u>didn't recover 80% in 2 hr.</u>								

Well No. U-2

Purge Method: H.B

Depth to Water (feet): 25.31

Depth to Product (feet): 0

Total Depth (feet) 33.10

LPH & Water Recovered (gallons): 0

Water Column (feet): 7.79

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 26.86

Borehole Diameter (Inches): _____

1 Borehole Volume (gallons): 1

①
24 ga.

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F/C)	pH	Turbidity or P	D.O.
0624			1	0.95	65.1	7.19	315	5.91
			2	0.93	66.1	7.14	318	5.79
	0633		3	0.91	66.9	7.11	321	5.61
Static at Time Sampled		Total Gallons Purged			Sample Time			
		<u>3</u>			<u>0842</u>			
Comments: <u>didn't recover 80% in 2 hr.</u>								

Borehole Volume Constants	Casing/Borehole Diameter	2"/8"	4"/8"	4"/10"	6"/10"	6"/12"
	Borehole Constant (gal/ft)	0.88	1.19	<u>1.63</u>	2.16	<u>3.07</u>

GROUNDWATER SAMPLING FIELD NOTES

Technician: ES

Site: 4186

Project No.: 410500-01

Date: 10-03-05

Well No. U-4

Purge Method: H-B

Depth to Water (feet): 37.63

Depth to Product (feet): 0

Total Depth (feet): 45.10

LPH & Water Recovered (gallons): 0

Water Column (feet): 7.47

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 39.12

Borehole Diameter (Inches): 1

1 Borehole Volume (gallons): _____

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	Turbidity orp	D.O.
0510			1	0.89	65.0	6.72	2.96	1.86
			2	0.83	66.0	6.99	2.99	1.99
	0520		3	0.80	66.5	7.10	3.05	2.06
Static at Time Sampled		Total Gallons Purged			Sample Time			
38.69		3			0530			
Comments:								

Well No. U-5

Purge Method: H-B (2)

Depth to Water (feet): 37.72

Depth to Product (feet): 0

Total Depth (feet): 47.10

LPH & Water Recovered (gallons): 0

Water Column (feet): 9.38

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 39.59

Borehole Diameter (Inches): _____

1 Borehole Volume (gallons): 2

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	Turbidity orp	D.O.
0538			2	0.79	64.0	7.22	3.08	1.98
			4	0.78	64.6	7.29	3.10	2.10
	0550		6	0.80	65.9	7.26	3.13	2.21
Static at Time Sampled		Total Gallons Purged			Sample Time			
39.03		6			0556			
Comments:								

Borehole Volume Constants	Casing/Borehole Diameter	2"/8"	4"/8"	4"/10"	6"/10"	6"/12"
	Borehole Constant (gal/ft)	0.88	1.19	1.63	2.16	3.07

GROUNDWATER SAMPLING FIELD NOTES

Technician: ES

Site: 4186

Project No.: 410500-01

Date: 10-03-03

Well No. 0-6
 Depth to Water (feet): 36.54
 Total Depth (feet): 44.55
 Water Column (feet): 8.01
 80% Recharge Depth(feet): 38.19

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

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F/C)	pH	Turbidity	D.O.
<u>0640</u>			<u>1</u>	<u>1.12</u>	<u>63.4</u>	<u>6.93</u>	<u>29</u>	<u>1.84</u>
			<u>2</u>	<u>1.15</u>	<u>63.9</u>	<u>6.94</u>	<u>21</u>	<u>2.16</u>
	<u>0649</u>		<u>3</u>	<u>1.17</u>	<u>64.9</u>	<u>6.93</u>	<u>12</u>	<u>2.29</u>
		Static at Time Sampled		Total Gallons Purged		Sample Time		
		<u>37.80</u>		<u>3</u>		<u>0805</u>		
Comments:								

(3)

Well No. 0-7
 Depth to Water (feet): 35.84
 Total Depth (feet): 44.35
 Water Column (feet): 8.51
 80% Recharge Depth(feet): 37.54

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

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F/C)	pH	Turbidity	D.O.
<u>0656</u>			<u>1</u>	<u>1.09</u>	<u>62.6</u>	<u>7.02</u>	<u>14</u>	<u>3.06</u>
			<u>2</u>	<u>1.06</u>	<u>63.7</u>	<u>7.03</u>	<u>17</u>	<u>2.97</u>
	<u>0704</u>		<u>3</u>	<u>1.04</u>	<u>64.9</u>	<u>7.04</u>	<u>21</u>	<u>2.91</u>
		Static at Time Sampled		Total Gallons Purged		Sample Time		
		<u>37.01</u>		<u>3</u>		<u>0812</u>		
Comments:								

Borehole Volume Constants	Casing/Borehole Diameter	2"/8"	4"/8"	4"/10"	6"/10"	6"/12"
	Borehole Constant (gal/ft)	0.88	1.19	<u>1.63</u>	2.16	<u>3.07</u>

GROUNDWATER SAMPLING FIELD NOTES

Technician: ES

Site: 4186

Project No.: 410580-01

Date: 10-03-03

Well No. U-3

Purge Method: H.B.

Depth to Water (feet): 26.59

Depth to Product (feet): 0

Total Depth (feet) 33.60

LPH & Water Recovered (gallons): 0

Water Column (feet): 7.01

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 27.99

Borehole Diameter (Inches): _____

1 Borehole Volume (gallons): 1

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	Turbidity ORP	D.O.
0715			1	0.99	63.9	6.83	-16	3.29
			2	0.99	64.9	6.80	-19	3.41
	0723		3	0.98	66.1	6.77	-27	3.80
Static at Time Sampled		Total Gallons Purged			Sample Time			
29.16		3			0924			
Comments:		didn't recover 3 after 2 hr.						

(4)

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): _____

Borehole Diameter (Inches): _____

1 Borehole 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			Sample Time			
Comments:								

Borehole Volume Constants	Casing/Borehole Diameter	2"/8"	4"/8"	4"/10"	6"/10"	6"/12"
	Borehole Constant (gal/ft)	0.88	1.19	1.63	2.16	3.07

TRC Alton Geoscience

October 16, 2003

21 Technology Drive
Irvine, CA 92718

Attn.: Anju Farfan

Project#: 410500-01

Project: ConocoPhillips #4186

Site: 1771 First St., Livermore

Attached is our report for your samples received on 10/03/2003 14:46

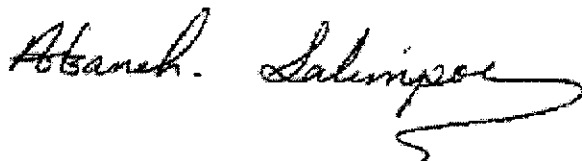
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 11/17/2003 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: asalimpour@stl-inc.com

Sincerely,



Afsaneh Salimpour
Project Manager

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: 410500-01

ConocoPhillips #4186

Received: 10/03/2003 14:46

Site: 1771 First St., Livermore

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
U-1	10/03/2003	Water	1
U-2	10/03/2003 08:42	Water	2
U-4	10/03/2003 05:30	Water	3
U-5	10/03/2003 05:56	Water	4
U-6	10/03/2003 08:05	Water	5
U-7	10/03/2003 08:12	Water	6
U-3	10/03/2003 09:24	Water	7

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: 410500-01

ConocoPhillips #4186

Received: 10/03/2003 14:46

Site: 1771 First St., Livermore

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	U-1	Lab ID:	2003-10-0217 - 1
Sampled:	10/03/2003	Extracted:	10/13/2003 17:09
Matrix:	Water	QC Batch#:	2003/10/13-01.68

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	10/13/2003 17:09	
Benzene	ND	0.50	ug/L	1.00	10/13/2003 17:09	
Toluene	ND	0.50	ug/L	1.00	10/13/2003 17:09	
Ethylbenzene	ND	0.50	ug/L	1.00	10/13/2003 17:09	
Total xylenes	ND	1.0	ug/L	1.00	10/13/2003 17:09	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	10/13/2003 17:09	
Ethanol	ND	500	ug/L	1.00	10/13/2003 17:09	
Surrogate(s)						
1,2-Dichloroethane-d4	118.0	76-114	%	1.00	10/13/2003 17:09	sh
Toluene-d8	102.4	88-110	%	1.00	10/13/2003 17:09	

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: 410500-01

ConocoPhillips #4186

Received: 10/03/2003 14:46

Site: 1771 First St., Livermore

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	U-2	Lab ID:	2003-10-0217 -2
Sampled:	10/03/2003 08:42	Extracted:	10/10/2003 03:33
Matrix:	Water	QC Batch#:	2003/10/09-02.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	10/10/2003 03:33	
Benzene	ND	0.50	ug/L	1.00	10/10/2003 03:33	
Toluene	ND	0.50	ug/L	1.00	10/10/2003 03:33	
Ethylbenzene	ND	0.50	ug/L	1.00	10/10/2003 03:33	
Total xylenes	ND	1.0	ug/L	1.00	10/10/2003 03:33	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	10/10/2003 03:33	
Ethanol	ND	500	ug/L	1.00	10/10/2003 03:33	
Surrogate(s)						
1,2-Dichloroethane-d4	90.7	76-114	%	1.00	10/10/2003 03:33	
Toluene-d8	88.0	88-110	%	1.00	10/10/2003 03:33	

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: 410500-01

ConocoPhillips #4186

Received: 10/03/2003 14:46

Site: 1771 First St., Livermore

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	U-4	Lab ID:	2003-10-0217 - 3
Sampled:	10/03/2003 05:30	Extracted:	10/14/2003 23:10
Matrix:	Water	QC Batch#:	2003/10/14-02.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	10/14/2003 23:10	
Benzene	ND	0.50	ug/L	1.00	10/14/2003 23:10	
Toluene	ND	0.50	ug/L	1.00	10/14/2003 23:10	
Ethylbenzene	ND	0.50	ug/L	1.00	10/14/2003 23:10	
Total xylenes	ND	1.0	ug/L	1.00	10/14/2003 23:10	
Methyl tert-butyl ether (MTBE)	9.1	2.0	ug/L	1.00	10/14/2003 23:10	
Ethanol	ND	500	ug/L	1.00	10/14/2003 23:10	
Surrogate(s)						
1,2-Dichloroethane-d4	106.9	76-114	%	1.00	10/14/2003 23:10	
Toluene-d8	98.1	88-110	%	1.00	10/14/2003 23:10	

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: 410500-01

ConocoPhillips #4186

Received: 10/03/2003 14:46

Site: 1771 First St., Livermore

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	U-5	Lab ID:	2003-10-0217 - 4
Sampled:	10/03/2003 05:56	Extracted:	10/14/2003 23:32
Matrix:	Water	QC Batch#:	2003/10/14-02.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	58	50	ug/L	1.00	10/14/2003 23:32	g
Benzene	ND	0.50	ug/L	1.00	10/14/2003 23:32	
Toluene	ND	0.50	ug/L	1.00	10/14/2003 23:32	
Ethylbenzene	ND	0.50	ug/L	1.00	10/14/2003 23:32	
Total xylenes	ND	1.0	ug/L	1.00	10/14/2003 23:32	
Methyl tert-butyl ether (MTBE)	44	2.0	ug/L	1.00	10/14/2003 23:32	
Ethanol	ND	500	ug/L	1.00	10/14/2003 23:32	
Surrogate(s)						
1,2-Dichloroethane-d4	102.8	76-114	%	1.00	10/14/2003 23:32	
Toluene-d8	101.5	88-110	%	1.00	10/14/2003 23:32	

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: 410500-01

ConocoPhillips #4186

Received: 10/03/2003 14:46

Site: 1771 First St., Livermore

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	U-6	Lab ID:	2003-10-0217 - 5
Sampled:	10/03/2003 08:05	Extracted:	10/15/2003 00:39
Matrix:	Water	QC Batch#:	2003/10/14-02:62
Analysis Flag: o (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	10000	ug/L	200.00	10/15/2003 00:39	
Benzene	140	100	ug/L	200.00	10/15/2003 00:39	
Toluene	ND	100	ug/L	200.00	10/15/2003 00:39	
Ethylbenzene	940	100	ug/L	200.00	10/15/2003 00:39	
Total xylenes	560	200	ug/L	200.00	10/15/2003 00:39	
Methyl tert-butyl ether (MTBE)	ND	400	ug/L	200.00	10/15/2003 00:39	
Ethanol	ND	100000	ug/L	200.00	10/15/2003 00:39	
Surrogate(s)						
1,2-Dichloroethane-d4	105.4	76-114	%	200.00	10/15/2003 00:39	
Toluene-d8	97.9	88-110	%	200.00	10/15/2003 00:39	

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: 410500-01

ConocoPhillips #4186

Received: 10/03/2003 14:46

Site: 1771 First St., Livermore

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	U-7	Lab ID:	2003-10-0217 - 6
Sampled:	10/03/2003 08:12	Extracted:	10/15/2003 22:05
Matrix:	Water	QC Batch#:	2003/10/15-02-68
Analysis Flag: 0 (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	6500	500	ug/L	10.00	10/15/2003 22:05	
Benzene	30	5.0	ug/L	10.00	10/15/2003 22:05	
Toluene	ND	5.0	ug/L	10.00	10/15/2003 22:05	
Ethylbenzene	41	5.0	ug/L	10.00	10/15/2003 22:05	
Total xylenes	ND	10	ug/L	10.00	10/15/2003 22:05	
Methyl tert-butyl ether (MTBE)	53	20	ug/L	10.00	10/15/2003 22:05	
Ethanol	ND	5000	ug/L	10.00	10/15/2003 22:05	
Surrogate(s)						
1,2-Dichloroethane-d4	108.0	76-114	%	10.00	10/15/2003 22:05	
Toluene-d8	99.8	88-110	%	10.00	10/15/2003 22:05	

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: 410500-01

ConocoPhillips #4186

Received: 10/03/2003 14:46

Site: 1771 First St., Livermore

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	U-3	Lab ID:	2003-10-0217 - 7
Sampled:	10/03/2003 09:24	Extracted:	10/15/2003 01:24
Matrix:	Water	QC Batch#:	2003/10/14-02.62
Analysis Flag: o (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	20000	5000	ug/L	100.00	10/15/2003 01:24	
Benzene	170	50	ug/L	100.00	10/15/2003 01:24	
Toluene	ND	50	ug/L	100.00	10/15/2003 01:24	
Ethylbenzene	250	50	ug/L	100.00	10/15/2003 01:24	
Total xylenes	730	100	ug/L	100.00	10/15/2003 01:24	
tert-Butyl alcohol (TBA)	39000	100	ug/L	100.00	10/15/2003 01:24	
Methyl tert-butyl ether (MTBE)	16000	200	ug/L	100.00	10/15/2003 01:24	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	100.00	10/15/2003 01:24	
Ethyl tert-butyl ether (ETBE)	ND	200	ug/L	100.00	10/15/2003 01:24	
tert-Amyl methyl ether (TAME)	ND	200	ug/L	100.00	10/15/2003 01:24	
1,2-DCA	ND	200	ug/L	100.00	10/15/2003 01:24	
EDB	ND	200	ug/L	100.00	10/15/2003 01:24	
Ethanol	ND	50000	ug/L	100.00	10/15/2003 01:24	
Surrogate(s)						
1,2-Dichloroethane-d4	112.1	76-114	%	100.00	10/15/2003 01:24	
Toluene-d8	94.0	88-110	%	100.00	10/15/2003 01:24	

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: 410500-01

ConocoPhillips #4186

Received: 10/03/2003 14:46

Site: 1771 First St., Livermore

Batch QC Report		
Prep(s): 5030B	Water	Test(s): 8260FAB
Method Blank		QC Batch # 2003/10/09-02.62
MB: 2003/10/09-02.62-029		Date Extracted: 10/09/2003 23:29

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	10/09/2003 23:29	
Benzene	ND	0.5	ug/L	10/09/2003 23:29	
Toluene	ND	0.5	ug/L	10/09/2003 23:29	
Ethylbenzene	ND	0.5	ug/L	10/09/2003 23:29	
Total xylenes	ND	1.0	ug/L	10/09/2003 23:29	
tert-Butyl alcohol (TBA)	ND	100	ug/L	10/09/2003 23:29	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	10/09/2003 23:29	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	10/09/2003 23:29	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	10/09/2003 23:29	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	10/09/2003 23:29	
1,2-DCA	ND	2.0	ug/L	10/09/2003 23:29	
EDB	ND	2.0	ug/L	10/09/2003 23:29	
Ethanol	ND	500	ug/L	10/09/2003 23:29	
Surrogates(s)					
1,2-Dichloroethane-d4	85.2	76-114	%	10/09/2003 23:29	
Toluene-d8	89.9	88-110	%	10/09/2003 23:29	

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: 410500-01

ConocoPhillips #4186

Received: 10/03/2003 14:46

Site: 1771 First St., Livermore

Batch QC Report		
Prep(s): 5030B		Test(s): 8260FAB
Method Blank	Water	QC Batch #: 2003/10/14-02.62
MB: 2003/10/14-02.62-026		Date Extracted: 10/14/2003 22:26

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	10/14/2003 22:26	
Benzene	ND	0.5	ug/L	10/14/2003 22:26	
Toluene	ND	0.5	ug/L	10/14/2003 22:26	
Ethylbenzene	ND	0.5	ug/L	10/14/2003 22:26	
Total xylenes	ND	1.0	ug/L	10/14/2003 22:26	
tert-Butyl alcohol (TBA)	ND	100	ug/L	10/14/2003 22:26	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	10/14/2003 22:26	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	10/14/2003 22:26	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	10/14/2003 22:26	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	10/14/2003 22:26	
1,2-DCA	ND	2.0	ug/L	10/14/2003 22:26	
EDB	ND	2.0	ug/L	10/14/2003 22:26	
Ethanol	ND	500	ug/L	10/14/2003 22:26	
Surrogates(s)					
1,2-Dichloroethane-d4	99.3	76-114	%	10/14/2003 22:26	
Toluene-d8	100.3	88-110	%	10/14/2003 22:26	

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: 410500-01

ConocoPhillips #4186

Received: 10/03/2003 14:46

Site: 1771 First St., Livermore

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Method Blank

Water

QC Batch # 2003/10/15-02.68

MB: 2003/10/15-02.68-017

Date Extracted: 10/15/2003 20:17

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	10/15/2003 20:17	
Benzene	ND	0.5	ug/L	10/15/2003 20:17	
Toluene	ND	0.5	ug/L	10/15/2003 20:17	
Ethylbenzene	ND	0.5	ug/L	10/15/2003 20:17	
Total xylenes	ND	1.0	ug/L	10/15/2003 20:17	
tert-Butyl alcohol (TBA)	ND	100	ug/L	10/15/2003 20:17	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	10/15/2003 20:17	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	10/15/2003 20:17	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	10/15/2003 20:17	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	10/15/2003 20:17	
1,2-DCA	ND	2.0	ug/L	10/15/2003 20:17	
EDB	ND	2.0	ug/L	10/15/2003 20:17	
Ethanol	ND	500	ug/L	10/15/2003 20:17	
Surrogates(s)					
1,2-Dichloroethane-d4	89.9	76-114	%	10/15/2003 20:17	
Toluene-d8	107.5	88-110	%	10/15/2003 20:17	

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: 410500-01

ConocoPhillips #4186

Received: 10/03/2003 14:46

Site: 1771 First St., Livermore

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike

Water

QC Batch # 2003/10/09-02.62

LCS 2003/10/09-02.62-045

Extracted: 10/09/2003

Analyzed: 10/09/2003 22:45

LCSD 2003/10/09-02.62-007

Extracted: 10/09/2003

Analyzed: 10/09/2003 23:07

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	23.3	22.3	25.0	93.2	89.2	4.4	69-129	20		
Toluene	23.8	22.8	25.0	95.2	91.2	4.3	70-130	20		
Methyl tert-butyl ether (MTBE)	21.9	20.9	25.0	87.6	83.6	4.7	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	448	423	500	89.6	84.6		76-114			
Toluene-d8	442	445	500	88.4	89.0		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: 410500-01

ConocoPhillips #4186

Received: 10/03/2003 14:46

Site: 1771 First St., Livermore

Batch QC Report										
Prep(s): 5030B						Test(s): 8260FAB				
Laboratory Control Spike				Water			QC Batch # 2003/10/13-01.68			
LCS	2003/10/13-01.68-026		Extracted: 10/13/2003			Analyzed: 10/13/2003 15:26				
LCSD	2003/10/13-01.68-046		Extracted: 10/13/2003			Analyzed: 10/13/2003 15:46				
Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	21.6	22.3	25.0	86.4	89.2	3.2	69-129	20		
Toluene	23.2	24.1	25.0	92.8	96.4	3.8	70-130	20		
Methyl tert-butyl ether (MTBE)	20.4	21.8	25.0	81.6	87.2	6.6	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	424	496	500	84.8	99.2		76-114			
Toluene-d8	510	531	500	102.0	106.2		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: 410500-01

ConocoPhillips #4186

Received: 10/03/2003 14:46

Site: 1771 First St., Livermore

Batch QC Report										
Prep(s): 5030B						Test(s): 8260FAB				
Laboratory Control Spike				Water			QC Batch # 2003/10/14-02.62			
LGS: 2003/10/14-02.62-042		LCSD: 2003/10/14-02.62-004		Extracted: 10/14/2003		Extracted: 10/14/2003		Analyzed: 10/14/2003 21:42		Analyzed: 10/14/2003 22:04
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	24.5	23.4	25.0	98.0	93.6	4.6	69-129	20		
Toluene	24.0	23.8	25.0	96.0	95.2	0.8	70-130	20		
Methyl tert-butyl ether (MTBE)	19.0	20.0	25.0	76.0	80.0	5.1	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	523	519	500	104.6	103.8		76-114			
Toluene-d8	525	490	500	105.0	98.0		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: 410500-01

ConocoPhillips #4186

Received: 10/03/2003 14:46

Site: 1771 First St., Livermore

Batch QC Report									
Prep(s): 5030B					Test(s): 8260FAB				
Laboratory Control Spike			Water			QC Batch # 2003/10/15-02:68			
LCS	2003/10/15-02:68-035		Extracted: 10/15/2003			Analyzed: 10/15/2003 19:35			
LCSD	2003/10/15-02:68-056		Extracted: 10/15/2003			Analyzed: 10/15/2003 19:56			

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	22.5	23.0	25.0	90.0	92.0	2.2	69-129	20		
Toluene	23.4	23.4	25.0	93.6	93.6	0.0	70-130	20		
Methyl tert-butyl ether (MTBE)	23.2	21.7	25.0	92.8	86.8	6.7	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	489	481	500	97.8	96.2		76-114			
Toluene-d8	518	519	500	103.6	103.8		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: 410500-01

ConocoPhillips #4186

Received: 10/03/2003 14:46

Site: 1771 First St., Livermore

Batch QC Report			
Prep(s):	5030B	Test(s):	8260FAB
Matrix Spike (MS / MSD)		Water	QC Batch # 2003/10/14-02.62
U-5 >> MS		Lab ID:	2003-10-0217 - 004
MS: 2003/10/14-02.62-055		Extracted: 10/14/2003	Analyzed: 10/14/2003 23:55
			Dilution: 1.00
MSD: 2003/10/14-02.62-017		Extracted: 10/15/2003	Analyzed: 10/15/2003 00:17
			Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample		ug/L	MS	MSD	RPD	Rec.	RPD	MS
Benzene	24.5	24.2	ND	25.0	98.0	96.8	1.2	69-129	20		
Toluene	24.2	23.1	ND	25.0	96.8	92.4	4.7	70-130	20		
Methyl tert-butyl ether	63.7	59.1	43.8	25.0	79.6	61.2	26.1	65-165	20		mso
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	502	501		500	100.4	100.2		76-114			
Toluene-d8	506	514		500	101.1	102.8		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: 410500-01

ConocoPhillips #4186

Received: 10/03/2003 14:46

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.

sh

Surrogate recovery was higher than QC limit due to matrix interference.

STL San Francisco

Sample Receipt Checklist

Submission #: 2003- 10 - 0217

Checklist completed by: (initials) BSH Date: 10 / 07 /03

Courier name: STL San Francisco Client WORLD

- 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 ($4^{\circ}C \pm 2$)? Yes No
- Water - VOA vials have zero headspace? Yes No

TWO COOLER
4.7/4.8

Temp: 4.7°C Yes No
Ice Present Yes No
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: _____ / _____ /03

Client contacted: Yes No

Summary of discussion:

Corrective Action (per PM/Client):

STL-San Francisco

2003-10-0217

ConocoPhillips Chain Of Custody Record

78081

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: 10-03-03
PAGE: 1 of 1

SAMPLING COMPANY: TRC		Valid Value ID:	CONOCOPHILLIPS SITE NUMBER 4186	GLOBAL ID NO.: 70600101777
ADDRESS: 21 Technology Drive, Irvine, CA 92618		SITE ADDRESS (Street and City): 1771 First St; Livermore		
PROJECT CONTACT (Hardcopy or PDF Report to): Anju Farfan		EDF DELIVERABLE TO (RP or Designee): Chris Rentz, crenz@trcsolutions.com		
TELEPHONE: 949-341-7440	FAX: 949-753-0111	E-MAIL: afarfan@trcsolutions.com	PHONE NO.: 949-753-0101	E-MAIL: LAB USE ONLY

SAMPLER NAME(S) (Print): Eduardo Sanchez
 CONSULTANT PROJECT NUMBER: 410500-81

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

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED
Run 8 OXYS by 8260 on 8260 MTOE hit, U-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.
		DATE	TIME		
	U-1	10/03	0835	G.W	3
	U-2		0842		
	U-4		0530		
	U-5		0556		
	U-6		0805		
	U-7		0812		
	U-3		0724		4

REQUESTED ANALYSES										FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes <u>4.7^{cc}</u>		
8015m - TPHd Extractable	8260B - TPHg/BTEX/MtBE	8260B - TPHg/BTEX/TB	Oxygenates	8260B - TPHg/BTEX/TB oxygenates + methanol (8015M)	8260B - Full Scan VOCs (does not include oxygenates)	8270C - Semi-Volatiles	8015M/8021B - TPHg/BTEX/MtBE	Lead <input type="checkbox"/> Total <input type="checkbox"/> STLC <input type="checkbox"/> TCLP				
									X	X	X	

Relinquished by: (Signature) <u>Edna Smith</u>	Received by: (Signature) <u>Mike Rasmussen (World Council)</u>	Date: 10-03-03	Time: 1330
Relinquished by: (Signature) <u>Mike Rasmussen</u>	Received by: (Signature) <u>John J. Mills</u>	Date: 10-3-03	Time: 1446
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

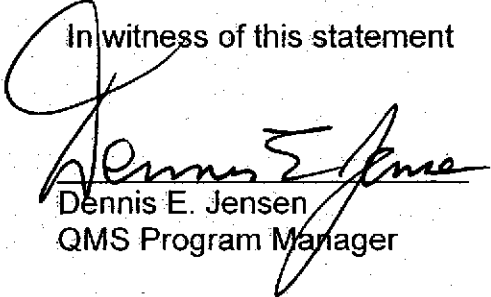
TRC Customer Focused Solutions
5052 Commercial Circle
Concord, CA 94520-1248

Statement of Authorized Transportation and Disposal

This is to certify that non-hazardous groundwater produced during purging and sampling of monitoring wells at ConocoPhillips site number 4186 was accumulated at TRC's groundwater monitoring facility at Concord, California, for transportation by Onyx Transportation, Inc. to the ConocoPhillips Refinery at Rodeo California for disposal. TRC records indicate that approximately 24 gallons of purge water from the site were transferred to the purge water holding tank on 10/3/03. The contents of the holding tank were transported to the Unit 100 Water Treatment Facility at the Rodeo Refinery on 11/3/03.

Disposal at the facility was authorized by ConocoPhillips in accordance with "ESD Standard Operating Procedures – Water Quality and Compliance", as revised on February 7, 2003. The procedure requires that TRC dispose only of monitoring well purge water from sites for which TRC services are under contract by ConocoPhillips. The non-hazardous nature of the purge water is confirmed quarterly by analysis by an independent certified laboratory of a random sample from the TRC holding facility. The sample is analyzed for all analytes and parameters that might affect the ConocoPhillips NPDES permit for ultimate disposal of the water. Documentation of compliance with ConocoPhillips requirements is provided by an ESD Form R-149, which is on file with ConocoPhillips.

In witness of this statement


Dennis E. Jensen
QMS Program Manager

12/16/03
date

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.