ConocoPhillips
76 Broadway
Sacramento, California 95818

January 12, 2007

Mr. Jerry Wickham
Alameda County Health Agency
1131 Harbor Bay Parkway
Alameda, California 94502

Re: **Report Transmittal**
Quarterly Report
Fourth Quarter – 2006
76 Service Station #4186
1771 First Street
Livermore, CA

Dear Mr. Wickham:

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

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

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

Sincerely,

Thomas Kosel
Risk Management & Remediation

Attachment

January 15, 2007

Mr. Jerry Wickham
Alameda County Health Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: Quarterly Summary Report – Fourth Quarter 2006
And Sensitive Receptor Survey
Delta Project Number: C104186041

DELTA

Dear Mr. Wickham:

On behalf of ConocoPhillips (COP), Delta Consultants (Delta) is forwarding the quarterly summary report for the following location:

Service Station	Location
76 Service Station No. 4186	1771 First Street Livermore, California

Sincerely,
Delta Consultants

Ben Wright
Staff Geologist

PROFESSIONAL GEOLOGIST
DENNIS SHANNON DETTLOFF
No. 7480
STATE OF CALIFORNIA

Dennis S. Dettloff, P.G.
Senior Project Manager
California Registered Professional Geologist No. 7480

cc: Ms. Shelby Lathrop, ConocoPhillips (electronic copy)

QUARTERLY SUMMARY REPORT
Sensitive Receptor Survey
Fourth Quarter 2006
76 Station No. 4186
1771 First Street
Livermore, California

PREVIOUS ASSESSMENT

This site is an operating Union 76 service station located on First Street between N Street and O Street in Livermore, California. The facility property contains the station building, four product dispenser islands, and two gasoline underground storage tanks (USTs).

On June 6, 1996, six soil samples were collected from beneath the fuel dispensers and product delivery lines during dispenser and piping replacement activities. Analytical data indicated that total petroleum hydrocarbons as gasoline (TPH-G) and benzene, toluene, ethyl-benzene, and total xylenes (BTEX) were below the laboratories indicated reporting limits for each sample collected beneath the dispenser islands and product delivery lines.

On September 10, 1997, a soil gas survey was conducted as part of a baseline site evaluation associated with transfer of the property from Unocal Corporation to Tosco. Six soil gas probes were advanced and samples collected at 3 or 15 feet below ground surface (bgs) in the vicinity of the UST complex, dispenser islands, and product lines. Analytical data from the gas probes indicated that TPH-G was present at concentrations ranging from 41 to 4,500 parts per billion by volume (ppb-v), benzene was present at concentrations ranging from below the laboratories indicated reporting limits to 110 ppb-v, and methyl tertiary butyl ether (MTBE) was present at concentrations ranging from below the laboratories indicated reporting limits to 8,000 ppb-v. The area of highest soil vapor concentration was localized around the UST complex.

On April 8, 1998, the Alameda County Zone 7 Water Agency files were reviewed to identify water supply wells located within a one-half mile radius from the site. Two municipal wells were identified approximately 1,500 feet and 1,800 feet northwest of the site, and two domestic wells were located approximately 1,900 feet southwest and 2,800 feet west of the site, respectively.

On June 16, 1998, three 2-inch diameter groundwater monitor wells (U-1 through U-3) were installed. The wells were each constructed to a depth of approximately 34 feet bgs. Soil samples collected from the three well borings indicated that TPH-G, benzene, and MTBE were not present above the laboratories indicated reporting limits.

In May 2000, a site conceptual model (SCM) was completed for the site. In the SCM, groundwater flow velocity was calculated to determine the plume travel time to the nearest receptor. Ground water velocity was calculated at 46 feet per year. The SCM concluded that hydrocarbon impact to groundwater appears to fluctuate with the rise and fall of the groundwater surface beneath the site.

On February 21, 2001, two 2-inch diameter off-site groundwater monitor wells (U-4 and U-5) were installed. The wells were constructed to depths of approximately 47 feet bgs. Analytical data from soil samples collected for analysis indicated that TPH-G, BTEX, and MTBE were not present in above the laboratories indicated reporting limits. TPH-G and benzene were reported to be below the laboratories indicated reporting limits in the groundwater samples analyzed from wells U-4 and U-5. Analytical data from the groundwater samples collected from monitoring wells U-4 and U-5 indicated that MTBE was present at concentrations of 38.2 micrograms per liter (µg/L) and 55.4 µg/L, respectively. The other fuel oxygenates were reported at or below laboratories indicated reporting limits. Groundwater monitoring and sampling of the wells was initiated in July 1998 and has continued on a quarterly basis to the present time. Historically, groundwater flow directions have varied from north to southwest. Depth to groundwater has varied from approximately 23 to 46 feet below top of casing.

On December 5 through 7, 2001, two monitoring wells (U-6 and U-7) and eight ozone microsparge points (SP-1 through SP-8) were installed. The monitor wells were each constructed to a depth of 46 feet bgs using 8-inch diameter hollow stem augers. Borings SP-1 through SP-8 were completed as sparge wells with the installation of 2-inch diameter KVA sparge points attached to ¾-inch diameter blank schedule 80 PVC casing through the hollow-stem augers. The sparge points are composed of 30-inch long microporous plastic. Sparge points SP-1 through SP-4 were constructed to depths of 45 feet bgs. Sparge points SP-6S and SP-7S were constructed to depths of 25 feet bgs. The remaining two sparge locations contain nested sparge points (SP-5, SP-5S, SP-8 and SP-8S) constructed to 25 and 45 feet bgs in each boring. Upon completion of the sparge point installation, an interim remediation system was installed consisting of a K-V Associates, Inc. (KVA) "C-Sparge" ozone microsparge system.

On April 19 through 26, 2006 seven soil borings (B-1 through B-7) were advanced. Three boreholes were advanced for each soil boring location. The initial borehole was advanced to record a cone penetrometer (CPT) log of subsurface lithology. The second borehole was advanced for the purpose of collecting soil samples for identification and laboratory analysis, and to collect a depth-discrete groundwater samples at depths of approximately 38 feet to 44 feet bgs. The third borehole was drilled to collect a depth-discrete groundwater sample at approximately 57 feet to 65 feet bgs. Three general stratigraphic zones were identified – An upper zone from 36 to 43 feet bgs, a middle clay zone from 43 to 55 feet bgs, and a lower zone from 55 to the maximum depths of 65.5 feet bgs explored.

Soil samples from selected depths were submitted for analysis. Soil analytical results were as follows: Gasoline range organics (GRO) was reported in five upper zone, six clay zone, and three lower zone samples. MTBE was reported in three upper zone, three clay zone, and two lower zone samples. Benzene was reported in three clay zone samples.

Groundwater analytical results were as follows: GRO was reported in each of the 14 groundwater samples. Benzene was reported in five upper zone, and six lower zone samples. MTBE was reported in four upper zone, and six lower zone samples.

SENSITIVE RECEPTORS

2006 – A survey entailing a visit to the DWR office in Sacramento was conducted to examine well log records and to identify domestic wells within the survey area. The DWR survey provided 53 potential receptors within one mile of the site; eleven municipal wells, five irrigation wells, two domestic wells, one domestic/irrigation well, and seventeen with an unknown well type. Seventeen additional potential receptors were identified although the specific addresses could not be located.

The 2006 sensitive receptor survey data are presented in Attachment A.

MONITORING AND SAMPLING

Groundwater is currently monitored and sampled on a quarterly basis. During the November 21, 2006 monitoring and sampling event, depth to groundwater ranged from 25.85 feet (U-2) to 33.43 feet (U-4) below top of casing (TOC). The groundwater flow direction was calculated to be to the north to southwest with a gradient of 0.08 foot per foot (ft/ft). Historic groundwater flow directions are shown in Attachment B.

Maximum dissolved groundwater concentrations were present as follows: total petroleum hydrocarbons as gasoline (TPH-G) (3,000 µg/L in U-7), benzene (22 µg/L in U-3), and MTBE (180 µg/L in U-3).

REMEDIATION STATUS

The ozone sparge system, manufactured by KVA, was placed into operation on December 19, 2001. Remediation system operation and maintenance is conducted by Environ Strategy Consultants, Inc. (ES) under direct contract to ConocoPhillips.

During the Fourth Quarter 2006, the ozone system was shut down, to evaluate whether dissolved gasoline concentrations would rebound or remain stable in the absence of ozone injection with the current well and system configuration. Subsequent groundwater monitoring data will be used with existing well construction data to determine if the remediation system should be revised.

CHARACTERIZATION STATUS

The furthest up-gradient monitor well, U-3, contained 180 µg/L MTBE and 1,500 µg/L TPH-G during the fourth quarter 2006 sampling event. The furthest off-site down-gradient well, U-5, contained 25 µg/L of MTBE this quarter. MTBE appears to be migrating onto the site from an upgradient source.

RECENT CORRESPONDENCE

Delta received technical comments from Alameda County Health Care Services (ACHCS) and a request to perform the proposed work in the October 31, 2006 revised work plan.

THIS QUARTER ACTIVITIES (Fourth Quarter 2006)

1. TRC conducted the quarterly monitoring and sampling at the site.

2. ES shut down the ozone injection system to allow Delta to evaluate potential effects on groundwater hydrocarbon concentrations.

3. Delta submitted a revised work plan to address regulatory agency technical comments and propose additional assessment to complete delineation of the extent of vertical contamination at the site.

WASTE DISPOSAL SUMMARY

June 1996 - A total of 25 cubic yards of soils was excavated and disposed.

April 2006 - A total of 2.2 cubic yards of soil cuttings generated during a soil investigation was disposed of from the site.

NEXT QUARTER ACTIVITIES (First Quarter 2007)

1. TRC will conduct quarterly groundwater monitoring and sampling at the site.

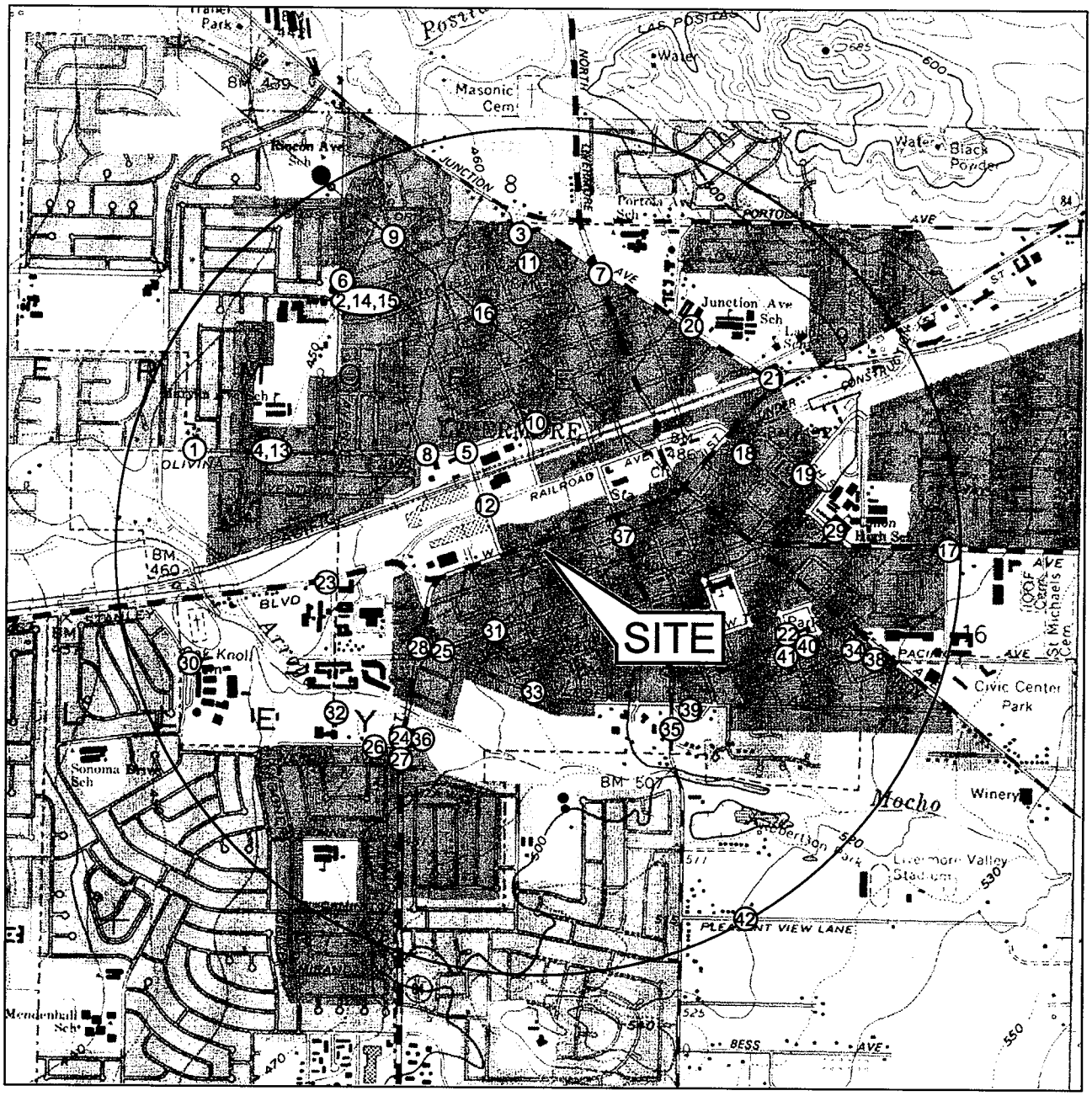
2. Delta will schedule additional assessment work in accordance with the approved revised work plan and ACHCS technical comments.

CONSULTANT: Delta Consultants

Attachment A – Sensitive Receptor Survey Data

Attachment B – Historic Groundwater Flow Directions

Attachment A
Sensitive Receptor Survey Data



0 1000 FT 2000 FT

SCALE: 1 : 24,000

North

FIGURE 1

SITE LOCATOR SENSITIVE RECEPTOR MAP

76 STATION NO. 4186
1771 FIRST STREET
LIVERMORE, CA

PROJECT NO. C104-186	DRAWN BY JH 12/13/06
FILE NO. Site Locator 4186	PREPARED BY JH
REVISION NO.	REVIEWED BY

DELTA

SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP, CALABASAS QUADRANGLE, 1967

Table 1

One-Mile Agency Receptor Survey
ConocoPhillips Station No.4186
1771 First Street, Livermore, California

	DWR[1] Well No.	Address	City	State	Zip	Owner	Well Type	Distance from Site (miles)	Direction Relative to Site
1-	3S/2E-7R3	732 Olivina Avenue	Livermore	CA		California Water Service Co.	Public/Production Well	0.9	NW
2-	3S/2E- 8E80?	Pine St. at Rincon Ave.	Livermore	CA		City of Livermore		0.8	NW
3-	3S/2E-8F1?	Pine Street at Arroyo Road	Livermore	CA		California Water Service Co.	Municipal	0.7	NW
4-	3S/2E-8N2?	40' south of Olivina St., 200' west of Albatross	Livermore	CA		California Water Service Co.		0.8	NW
5-	3S/2E-2P1	sw of corner of Olivina and P st.	Livermore	CA		California Water Service Co.		0.3	NW
6-	3S/2E-8E1	951 Rincon Ave	Livermore	CA		City of Livermore		0.8	NW
7-	3S/2E-8H1	sw of North Livermore Avenue at Elm Street	Livermore	CA		California Water Service Co.	Municipal	0.7	NE
8-	3S/2E-8P1	se of Olivina Avenue at Adelle Street	Livermore	CA		California Water Service Co.		0.3	NW
9-	3S/2E-8F1?	sw of Juniper Street at N P Street	Livermore	CA		California Water Service Co.	Municipal	0.8	NW
10-	3S/2E-8K1	1830 Chestnut St.	Livermore	CA		PG&E	Cathodic protection	0.3	N
11-	3S/2E-8G2	L St. at Locust St.	Livermore	CA		PG&E	Cathodic protection	0.7	N
12-	3S/2E-8P2	sw of N P St. at Railroad Avenue	Livermore	CA		California Water Service Co.	Municipal	0.3	NW
13-	3S/2E-8N2	se of Olivina Avenue at Albatross Avenue	Livermore	CA		California Water Service Co.	Municipal	0.7	NW
14-	3S/2E-8E9	899 Rincon Avenue	Livermore	CA		ARCO Products, Co.	Recovery Well	0.8	NW
15-	3S/2E-8E10	899 Rincon Avenue	Livermore	CA		ARCO Products, Co.	Vapor Extraction	0.8	NW
16-	3S/2E-8G1	sw of Elm Street at N N Street	Livermore	CA		California Water Service Co.	Municipal	0.6	NW
17-	3S/2E-9Q1	north of East Avenue at Dolores Street	Livermore	CA		California Water Service Co.	Domestic/Municipal	1.0	E
18-	3S/2E-9P	Maple Street at Second Street	Livermore	CA		PG&E	Cathodic protection	0.5	SW
19-	3S/2E-9P1	2778 Fourth Street	Livermore	CA		California Water Service Co.	Municipal	0.7	NE
20-	3S/2E-9M1	403 Junction	Livermore	CA		Victor Baldi	Irrigation	0.6	NE
21-	3S/2E-9L1	south side of First St. at Junction Ave.	Livermore	CA		California Water Service Co.	Municipal	0.7	NE
22-	3S/2E-18C81	811 South H.	Livermore	CA		Leslie Holm		0.6	SE
23-	3S/2E-17C1	985 E. Stanley Blvd.	Livermore	CA		Fred Holdener		0.5	SW
24-	3S/2E-17E1	south side Mocho Street, 0.3 mi west of Vallecitos Road	Livermore	CA		W. J. Wagoner		0.8	SW
25-	3S/32E-17F1	0.2 mi west of Holmes St. at College Ave.	Livermore	CA		U.S. Veterans Hospital		0.6	SW
26-	3S/2E-17L2	0.2 mi west of Vallecitos Rd. on Mocho St, 10' south of Mocho	Livermore	CA		W. J. Wagoner		0.7	SW
27-	3S/2E-17P1?	0.45 mi south of Mocho St on east side of Vallecitos Rd.	Livermore	CA		Adele Colldeweih (formerly C.A. Smith)		1.0	SW
28-	3S/2E-17B1	Fourth St. at College Ave.	Livermore	CA		California Water Service Co.		0.4	SW
29-	3S/2E-17E5	Livermore High School, 600 Maple St.	Livermore	CA		Livermore School District	Domestic/ Irrigation	0.7-0.8	NE
30-	3S/2E-17E4	Granada High School, 400 Wall St.	Livermore	CA		Livermore Valley School District	Irrigation/Test Well	0.7-1.0	SW
31-	3S/2E-17B3	4th St. at Q St.	Livermore	CA		PG&E	Cathodic protection	0.3	SW
32-	3S/2E-17J?	1000' west of Arroyo Rd., 150' south of Arroyo Mocho Creek	Livermore	CA		R. A. Hansen	Irrigation	0.6	SE
33-	3S/2E-17?	1531 College Ave.	Livermore	CA		Don Benton	Domestic	0.4	SW
34-	3S/2E-16B1	Palm Ave. between Livermore and Almond	Livermore	CA		California Water Service Co.		0.6-0.8	SE
35-	3S/2E-16E1	954 South L. St.	Livermore	CA		Livermore Sanitarium		0.5	SE
36-	3S/2E-16E2	300' east of Arroyo Rd., 150' north of Mocho Creek	Livermore	CA		Livermore Sanitarium		0.6	SE
37-	3S/2E-16?	Ferrario Winery, 2nd St. and L St.	Livermore	CA		Ferrario Winery		0.2	E
38-	3S/2E-16B1	sw of Palm Avenue and South Livermore Avenue	Livermore	CA		California Water Service Co.		0.8	SE
39-	3S/2E-16E6	300' se of College St. at L St.	Livermore	CA		First Baptist Church	Irrigation	0.6	SE
40-	3S/2E-16C3	Eighth St. at S H St.	Livermore	CA		PG&E	Cathodic protection	0.6	SE
41-	3S/2E-16C1	787 S H Street	Livermore	CA		Ben F. Mingoia	Municipal	0.6	SE

Table 1

One-Mile Agency Receptor Survey
ConocoPhillips Station No.4186
1771 First Street, Livermore, California

DWR[1] Well No.	Address	City	State	Zip	Owner	Well Type	Distance from Site (miles)	Direction Relative to Site
42-3S/2E-1681?	2486 Pleasant View Lane	Livermore	CA		George Sharp	Domestic	1.0	SE
43-3S/2E-17D81	near Ventura Ct.	Livermore	CA		Richard Woelffel	Irrigation	0.6	W
[2]44-3S/2E-16A80	East Ave (former Rasmussen property)	Livermore	CA		L. Oddon	Domestic		
[2]45-3S/2E-7?	Dow Airport, Highway 50 between Livermore and Dublin	Livermore	CA		Conrad Molt	Domestic		
[2]46-3S/2E-7N1	0.5 mi south of Kittyhawk at Las Positas, west of Livermore		CA		Alameda County Flood Control	Test Well/Other		
[2]47-3S/2E-7P2	west end of Olivina Road	Livermore	CA		Herb Hageman			
[2]48-3S/2E-8B1	Joesrilli?	Livermore	CA		A.P. Caratti			
[2]49-3S/2E-8M80	1936 Olovina Ave.	Livermore	CA		Jean Eyherabide			
[2]50-3S/2E-8N1	Star Route 5	Pleasanton	CA		John Fenrich	Irrigation		
[2]51-3S/2E-9Q80	East Avenue	Livermore	CA		Frydendel	Domestic		
[2]52-3S/2E-18R	Vallecitos Road	Livermore	CA		W. J. Wagoner			
[2]53-3S/2E-18A1	Elsie Johnson Ranch	Livermore	CA		Richard Woelefel			
[2]54-3S/2E-17B2	West Fourth Street	Livermore	CA		R. A. Hansen	Domestic		
[2]55-3S/2E-17?	Kaiser Site	Livermore	CA		Veterans Administration Hospital	Domestic		
[2]56-3S/2E-17J1	Creek Bank Ranch	Livermore	CA		R. A. Hansen			
[2]57-3S/2E-17R1	Creek Bank Ranch	Livermore	CA		R. A. Hansen			
[2]58-3S/2E-17F2	Vallecitos Road	Livermore	CA		W. J. Wagoner			
[2]59-3S/2E-16A5	East Avenue	Livermore	CA		St. Michael's Cemetary	Irrigation		
[2]60-3S/2E-16?	Church St. and L Street	Livermore	CA		Livermore Sanitarium	Domestic/Irrigation		
[2]61-3S/2E-16R2	Wente at Stadium Way	Livermore	CA		Gene A. Matyevich	Domestic		

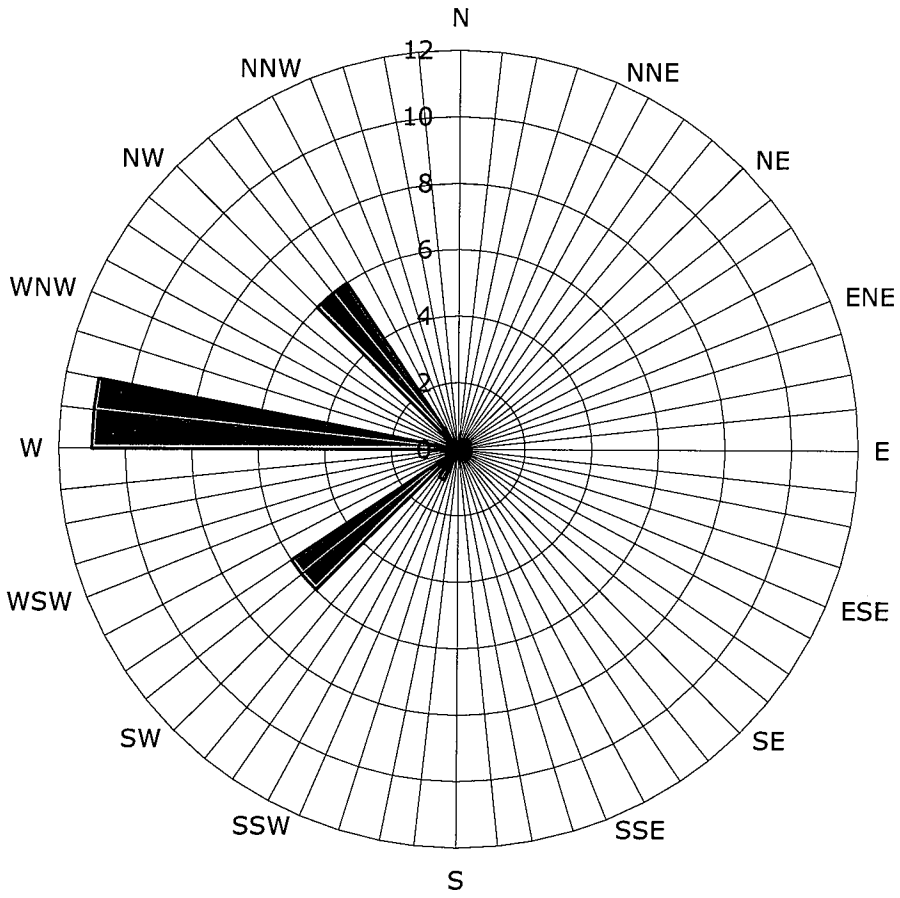
DWR: Department of Water Resources

[1] Well Locations shown on Figure 1.

[2] Specific address cannot be located on map.

Attachment B
Historic Groundwater Flow Directions

Historic Groundwater Flow Directions
ConocoPhillips Site No. 4186
1771 First Street
Livermore, California



Groundwater Flow Direction

Legend
Concentric circles represent quarterly montoring events
Fourth Quarter 2000 through Fourth Quarter 2006
24 data points shown

TRC

December 22, 2006

ConocoPhillips Company
76 Broadway
Sacramento, California 95818

ATTN: MS. SHELBY LATHROP

SITE: 76 STATION 4186
1771 FIRST STREET
LIVERMORE, CALIFORNIA

RE: QUARTERLY MONITORING REPORT
OCTOBER THROUGH DECEMBER 2006

Dear Ms. Lathrop:

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: Mr. Dennis Dettloff, Delta Environmental Consultants, Inc. (1 copies)

Enclosures
20-0400/4186R13.QMS.doc

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

TRC

QUARTERLY MONITORING REPORT
OCTOBER THROUGH DECEMBER 2006

76 STATION 4186
1771 First Street
Livermore, California

Prepared For:

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

By:

Senior Project Geologist, Irvine Operations
December 14, 2006

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

LIST OF ATTACHMENTS	
Summary Sheet	Summary of Gauging and Sampling Activities
Tables	Table Key Contents of Tables Table 1: Current Fluid Levels and Selected Analytical Results Table 1a: Additional Current Analytical Results Table 2: Historic Fluid Levels and Selected Analytical Results Table 2a: Additional Historic Analytical Results
Figures	Figure 1: Vicinity Map Figure 2: Groundwater Elevation Contour Map Figure 3: Dissolved-Phase TPH-G (GC/MS) Concentration Map Figure 4: Dissolved-Phase Benzene Concentration Map Figure 5: Dissolved-Phase MTBE Concentration Map
Graphs	Groundwater Elevations vs. Time Benzene Concentrations vs. Time
Field Activities	General Field Procedures Field Monitoring Data Sheet – 11/21/06 Groundwater Sampling Field Notes – 11/21/06
Laboratory Reports	Official Laboratory Reports Quality Control Reports Chain of Custody Records
Statements	Purge Water Disposal Limitations

Summary of Gauging and Sampling Activities
October 2006 through December 2006
76 Station 4186
1771 First Street
Livermore, CA

Project Coordinator: **Shelby Lathrop**
Telephone: **916-558-7609**
Water Sampling Contractor: ***TRC***
Compiled by: **Christina Carrillo**
Date(s) of Gauging/Sampling Event: **11/21/06**

Sample Points

Groundwater wells: **5** onsite, **2** offsite Wells gauged: **7** Wells sampled: **7**
Purging method: **Bailer/submersible pump**
Purge water disposal: **Onyx/Rodeo Unit 100**
Other Sample Points: **0** Type: **n/a**

Liquid Phase Hydrocarbons (LPH)

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

Hydrogeologic Parameters

Depth to groundwater (below TOC): Minimum: **25.85 feet** Maximum: **33.43 feet**
Average groundwater elevation (relative to available local datum): **447.74 feet**
Average change in groundwater elevation since previous event: **1.59 feet**
Interpreted groundwater gradient and flow direction:
Current event: **0.08 ft/ft, north to southwest**
Previous event: **0.05 ft/ft, north, west and south (09/26/06)**

Selected Laboratory Results

Wells with detected **Benzene:** **3** Wells above MCL (1.0 µg/l): **3**
Maximum reported benzene concentration: **22 µg/l (U-3)**

Wells with **TPH-G by GC/MS** **3** Maximum: **3,000 µg/l (U-7)**
Wells with **MTBE** **4** Maximum: **180 µg/l (U-3)**

Notes:

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

TABLES

TABLE KEY

STANDARD ABBREVIATIONS

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

ANALYTES

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

NOTES

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

REFERENCE

TRC began groundwater monitoring and sampling for 76 Station 4186 in October 2003. Historical data compiled prior to that time were provided by Gettler-Ryan Inc.

Contents of Tables
Site: 76 Station 4186

Current Event

Historic Data

Table 1

CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 21, 2006

76 Station 4186

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPH-G (8015M)	TPH-G (GC/MS)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
	(feet)	(feet)	(feet)	(feet)	(feet)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
U-1		**(Screen Interval in feet: 14.0-34.0)**												
11/21/06	478.27	28.27	0.00	450.00	1.92	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
U-2		**(Screen Interval in feet: 13.0-34.0)**												
11/21/06	477.44	25.85	0.00	451.59	2.67	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
U-3		**(Screen Interval in feet: 14.0-34.0)**												
11/21/06	478.46	27.23	0.00	451.23	0.85	--	1500	22	ND<5.0	5.8	ND<5.0	--	180	
U-4		**(Screen Interval in feet: 35.0-45.0)**												
11/21/06	476.93	33.43	0.00	443.50	0.29	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
U-5		**(Screen Interval in feet: 37.0-47.0)**												
11/21/06	476.51	32.43	0.00	444.08	1.92	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	25	
U-6		**(Screen Interval in feet: DNA)**												
11/21/06	478.38	31.65	0.00	446.73	1.66	--	1500	5.5	ND<0.50	37	2.4	--	1.4	
U-7		**(Screen Interval in feet: DNA)**												
11/21/06	478.74	31.66	0.00	447.08	1.81	--	3000	15	1.1	26	2.2	--	69	

Table 1 a
ADDITIONAL CURRENT ANALYTICAL RESULTS
76 Station 4186

Date Sampled	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen	Pre-purge ORP	Post-purge ORP
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(mV)	(mV)
U-1											
11/21/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.24	4.56	1.97	2.00
U-2											
11/21/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.70	3.45	-29	-20
U-3											
11/21/06	33000	ND<2500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	1.04	1.10	-83	-96
U-4											
11/21/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.38	1.13	-60	-10
U-5											
11/21/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.12	0.79	41	47
U-6											
11/21/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.83	1.05	-65	-69
U-7											
11/21/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.88	0.98	-43	-59

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

July 1998 Through November 2006

76 Station 4186

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPH-G (8015M)	TPH-G (GC/MS)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
	(feet)	(feet)	(feet)	(feet)	(feet)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
U-1	**(Screen Interval in feet: 14.0-34.0)**													
07/13/98	478.27	23.28	0.00	454.99	--	ND	--	ND	ND	ND	ND	ND	--	
10/07/98	478.27	26.43	0.00	451.84	-3.15	ND	--	ND	ND	ND	ND	ND	--	
01/15/99	478.27	30.42	0.00	447.85	-3.99	ND	--	ND	ND	ND	1.1	7.3	--	
04/14/99	478.27	24.21	0.00	454.06	6.21	ND	--	ND	ND	ND	ND	160	--	
07/19/99	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	--	
01/24/00	478.27	27.90	0.00	450.37	1.50	ND	--	ND	ND	ND	ND	28	--	
04/10/00	478.27	26.16	0.00	452.11	1.74	ND	--	ND	0.930	ND	ND	ND	--	
07/17/00	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	--	
01/08/01	478.27	28.68	0.00	449.59	-0.27	ND	--	ND	ND	ND	ND	103	--	
04/03/01	478.27	25.74	0.00	452.53	2.94	ND	--	ND	ND	ND	ND	55.1	--	
07/02/01	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<5.0	--	
01/03/02	478.27	27.67	0.00	450.60	5.46	160	--	ND<0.50	0.51	ND<0.50	0.69	31	--	
04/05/02	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	--	
07/02/02	478.27	31.17	0.00	447.10	-1.77	--	1100	ND<0.50	1.7	0.73	130	--	35	
10/01/02	478.27	33.00	0.00	445.27	-1.83	--	120	ND<0.50	ND<0.50	ND<0.50	8.8	--	28	
12/30/02	478.27	22.03	0.00	456.24	10.97	--	ND<50	ND<0.50	ND<0.50	ND<0.50	1.2	--	90	
05/02/03	478.27	24.13	0.00	454.14	-2.10	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	50	
07/01/03	478.27	25.35	0.00	452.92	-1.22	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
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	
01/08/04	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	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
July 1998 Through November 2006
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 (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
U-1 continued														
04/15/04	478.27	25.33	0.00	452.94	-2.66	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
07/15/04	478.27	26.47	0.00	451.80	-1.14	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/08/04	478.27	31.17	0.00	447.10	-4.70	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
03/23/05	478.27	22.47	0.00	455.80	8.70	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
06/28/05	478.27	25.37	0.00	452.90	-2.90	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
09/23/05	478.27	29.15	0.00	449.12	-3.78	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/30/05	478.27	23.69	0.00	454.58	5.46	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
03/24/06	478.27	22.54	0.00	455.73	1.15	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.6	
06/26/06	478.27	24.99	0.00	453.28	-2.45	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
09/26/06	478.27	30.19	0.00	448.08	-5.20	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
11/21/06	478.27	28.27	0.00	450.00	1.92	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
U-2	**(Screen Interval in feet: 13.0-34.0)**													
07/13/98	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	--	
01/15/99	477.44	30.22	0.00	447.22	-4.91	ND	--	ND	ND	ND	ND	280	--	
04/14/99	477.44	24.50	0.00	452.94	5.72	ND	--	ND	ND	ND	ND	460	--	
07/19/99	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	--	
01/24/00	477.44	24.52	0.00	452.92	5.96	ND	--	ND	ND	ND	ND	150	--	
04/10/00	477.44	23.68	0.00	453.76	0.84	ND	--	ND	ND	ND	ND	177	--	
07/17/00	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	--	
01/08/01	477.44	29.11	0.00	448.33	-0.39	ND	--	ND	ND	ND	ND	57.3	--	
04/03/01	477.44	25.95	0.00	451.49	3.16	ND	--	ND	ND	ND	ND	30.2	--	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
July 1998 Through November 2006
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 (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
U-2 continued														
07/02/01	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	--	
01/03/02	477.44	27.33	0.00	450.11	3.61	260	--	7.7	11	1.7	15	42	--	
04/05/02	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	--	
07/02/02	477.44	31.23	0.00	446.21	-1.21	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	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<1.0	--	ND<2.0	
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<1.0	--	ND<2.0	
05/02/03	477.44	25.92	0.00	451.52	-3.60	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
07/01/03	477.44	24.99	0.00	452.45	0.93	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
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	
01/08/04	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	
04/15/04	477.44	25.20	0.00	452.24	-3.26	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
07/15/04	477.44	24.45	0.00	452.99	0.75	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/08/04	477.44	29.89	0.00	447.55	-5.44	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
03/23/05	477.44	22.00	0.00	455.44	7.89	--	ND<50	ND<0.50	ND<0.50	ND<0.50	1.1	--	ND<0.50	
06/28/05	477.44	25.30	0.00	452.14	-3.30	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
09/23/05	477.44	28.25	0.00	449.19	-2.95	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/30/05	477.44	24.33	0.00	453.11	3.92	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
03/24/06	477.44	22.34	0.00	455.10	1.99	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
06/26/06	477.44	23.15	0.00	454.29	-0.81	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
09/26/06	477.44	28.52	0.00	448.92	-5.37	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
11/21/06	477.44	25.85	0.00	451.59	2.67	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
U-3	**(Screen Interval in feet: 14.0-34.0)**													
07/13/98	478.46	23.82	0.00	454.64	--	70000	--	3100	5500	2700	16000	7500	--	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
July 1998 Through November 2006
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 (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
U-3 continued														
10/07/98	478.46	25.64	0.00	452.82	-1.82	54000	--	5000	1100	3100	14000	6100	--	
01/15/99	478.46	30.92	0.00	447.54	-5.28	41000	--	3100	ND	1800	3800	15000	--	
04/14/99	478.46	24.48	0.00	453.98	6.44	33000	--	86	290	2200	7800	39000	--	
07/19/99	478.46	28.46	0.00	450.00	-3.98	48000	--	3900	2500	3600	14000	12000	16000	
10/12/99	478.46	30.39	0.00	448.07	-1.93	35000	--	4200	ND	2300	1800	22000	8300	
01/24/00	478.46	23.43	0.00	455.03	6.96	13000	--	260	ND	770	3200	53000	42000	
04/10/00	478.46	23.31	0.00	455.15	0.12	35200	--	1070	241	2820	8850	35600	40900	
07/17/00	478.46	27.53	0.00	450.93	-4.22	29000	--	3570	525	3180	5660	22500	21000	
10/02/00	478.46	28.19	0.00	450.27	-0.66	11000	--	2100	31	2000	780	25000	28000	
01/08/01	478.46	29.85	0.00	448.61	-1.66	33600	--	3060	427	3040	4190	24700	30900	
04/03/01	478.46	24.98	0.00	453.48	4.87	5390	--	660	10.8	304	356	15200	19300	
07/02/01	478.46	31.35	0.00	447.11	-6.37	13000	--	1200	58	1300	930	25000	26000	
10/08/01	478.46	32.69	0.00	445.77	-1.34	6100	--	500	ND<10	570	130	23000	22000	
01/03/02	478.46	23.73	0.00	454.73	8.96	9900	--	700	130	24	1000	14000	12000	
04/05/02	477.44	28.27	0.00	449.17	-5.56	9800	--	1100	180	220	1400	16000	30000	
07/02/02	478.46	29.71	0.00	448.75	-0.42	--	ND<25000	ND<250	ND<250	ND<250	ND<500	12000	12000	
10/01/02	478.46	31.18	0.00	447.28	-1.47	--	ND<25000	ND<250	ND<250	ND<250	ND<500	12000	12000	
12/30/02	478.46	21.62	0.00	456.84	9.56	--	23000	330	170	870	4900	18000	18000	
05/02/03	478.46	23.11	0.00	455.35	-1.49	--	19000	280	ND<50	880	1500	15000	15000	
07/01/03	478.46	24.89	0.00	453.57	-1.78	--	19000	120	ND<100	180	880	22000	22000	
10/03/03	478.46	26.59	0.00	451.87	-1.70	--	20000	170	ND<50	250	730	--	16000	
01/08/04	478.46	21.92	0.00	456.54	4.67	--	17000	250	ND<100	770	1500	--	9700	
04/15/04	478.46	23.59	0.00	454.87	-1.67	--	4600	ND<25	ND<25	36	100	--	3700	
07/15/04	478.46	24.80	0.00	453.66	-1.21	--	2700	ND<25	ND<25	ND<25	ND<50	--	3400	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
July 1998 Through November 2006
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 (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
U-3 continued														
12/08/04	478.46	29.13	0.00	449.33	-4.33	--	12000	ND<50	ND<50	250	140	--	13000	
03/23/05	478.46	21.64	0.00	456.82	7.49	--	21000	94	ND<50	630	1200	--	6200	
06/28/05	478.46	24.57	0.00	453.89	-2.93	--	6600	24	0.64	150	70	--	4700	
09/23/05	478.46	27.64	0.00	450.82	-3.07	--	6000	31	ND<25	150	ND<50	--	8900	
12/30/05	478.46	23.96	0.00	454.50	3.68	--	390	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	840	
03/24/06	478.46	22.52	0.00	455.94	1.44	--	2700	28	ND<5.0	57	120	--	690	
06/26/06	478.46	23.89	0.00	454.57	-1.37	--	2000	51	0.77	84	45	--	560	
09/26/06	478.46	28.08	0.00	450.38	-4.19	--	1200	20	ND<2.5	5.2	2.8	--	170	
11/21/06	478.46	27.23	0.00	451.23	0.85	--	1500	22	ND<5.0	5.8	ND<5.0	--	180	
U-4	**(Screen Interval in feet: 35.0-45.0)**													
04/03/01	476.93	31.63	0.00	445.30	--	ND	--	ND	ND	ND	ND	37.8	38.2	
07/02/01	476.93	37.96	0.00	438.97	-6.33	ND	--	ND	ND	ND	ND	ND	5.3	
10/08/01	476.93	44.24	0.00	432.69	-6.28	--	--	--	--	--	--	--	--	Not enough water to sample
01/03/02	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	
04/05/02	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	--	
07/02/02	476.93	36.85	0.00	440.08	0.79	--	67	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	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<1.0	--	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<1.0	--	25	
05/02/03	476.93	31.40	0.00	445.53	1.24	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	4.1	
07/01/03	476.93	33.60	0.00	443.33	-2.20	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	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	
01/08/04	476.93	29.23	0.00	447.70	8.40	--	ND<50	0.55	ND<0.50	1.6	3.7	--	2.5	
04/15/04	476.93	29.80	0.00	447.13	-0.57	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5.2	
07/15/04	476.93	35.05	0.00	441.88	-5.25	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5.1	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
July 1998 Through November 2006
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 (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
U-4 continued														
12/08/04	476.93	35.10	0.00	441.83	-0.05	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3.0	
03/23/05	476.93	25.38	0.00	451.55	9.72	--	ND<50	ND<0.50	ND<0.50	1.3	1.2	--	0.65	
06/28/05	476.93	28.67	0.00	448.26	-3.29	--	34J	ND<0.50	0.15J	ND<0.50	ND<1.0	--	0.23J	
09/23/05	476.93	32.25	0.00	444.68	-3.58	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	11	
12/30/05	476.93	31.02	0.00	445.91	1.23	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	17	
03/24/06	476.93	26.51	0.00	450.42	4.51	--	ND<50	ND<0.50	ND<0.50	ND<0.50	4.4	--	21	
06/26/06	476.93	27.98	0.00	448.95	-1.47	--	63	ND<0.50	ND<0.50	0.56	ND<1.0	--	11	
09/26/06	476.93	33.72	0.00	443.21	-5.74	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	13	
11/21/06	476.93	33.43	0.00	443.50	0.29	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
U-5	**(Screen Interval in feet: 37.0-47.0)**													
04/03/01	476.51	31.75	0.00	444.76	--	ND	--	ND	0.728	ND	0.993	54.8	55.4	
07/02/01	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	
01/03/02	476.51	36.55	0.00	439.96	9.76	ND<50	--	ND<0.50	0.59	ND<0.50	0.91	51	53	
04/05/02	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	--	
07/02/02	476.51	36.92	0.00	439.59	0.91	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	43	
10/01/02	476.51	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible - truck parked over well
12/30/02	476.51	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible - car parked over well
05/02/03	476.51	31.55	0.00	444.96	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	18	
07/01/03	476.51	33.83	0.00	442.68	-2.28	--	73	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	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	
01/08/04	476.51	29.21	0.00	447.30	8.51	--	ND<50	ND<0.50	ND<0.50	1.1	2.7	--	17	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
July 1998 Through November 2006
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 (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
U-5 continued														
04/15/04	476.51	30.05	0.00	446.46	-0.84	--	57	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	37	
07/15/04	476.51	35.15	0.00	441.36	-5.10	--	60	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	27	
12/08/04	476.51	35.33	0.00	441.18	-0.18	--	62	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	39	
03/23/05	476.51	25.45	0.00	451.06	9.88	--	ND<50	ND<0.50	ND<0.50	0.51	ND<1.0	--	4.5	
06/28/05	476.51	28.90	0.00	447.61	-3.45	--	73	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	40	
09/23/05	476.51	33.01	0.00	443.50	-4.11	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	53	
12/30/05	476.51	30.96	0.00	445.55	2.05	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	72	
03/24/06	476.51	22.42	0.00	454.09	8.54	--	2400	13	ND<5.0	48	58	--	54	
06/26/06	476.51	29.31	0.00	447.20	-6.89	--	72	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	82	
09/26/06	476.51	34.35	0.00	442.16	-5.04	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	51	
11/21/06	476.51	32.43	0.00	444.08	1.92	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	25	
U-6	**(Screen Interval in feet: DNA)**													
01/03/02	478.38	33.99	0.00	444.39	--	5000	--	36	ND<25	260	450	ND<250	ND<10	
04/05/02	478.38	36.18	0.00	442.20	-2.19	1300	--	16	ND<5.0	54	ND<5.0	ND<25	--	
07/02/02	478.38	36.33	0.00	442.05	-0.15	--	1100	1.4	ND<0.50	16	ND<1.0	--	0.94	
10/01/02	478.38	37.70	0.00	440.68	-1.37	--	2000	5.4	ND<0.50	62	ND<1.0	--	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<1.0	--	ND<2.0	
05/02/03	478.38	31.49	0.00	446.89	0.14	--	150	ND<0.50	ND<0.50	1.8	1.7	--	82	
07/01/03	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	
01/08/04	478.38	30.45	0.00	447.93	6.09	--	3500	29	32	90	89	--	27	
04/15/04	478.38	29.48	0.00	448.90	0.97	--	2400	19	ND<2.5	91	53	--	16	
07/15/04	478.38	34.30	0.00	444.08	-4.82	--	8500	150	5.7	970	560	--	24	
12/08/04	478.38	34.80	0.00	443.58	-0.50	--	2700	16	ND<2.5	28	ND<5.0	--	10	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

July 1998 Through November 2006

76 Station 4186

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPH-G (8015M)	TPH-G (GC/MS)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
	(feet)	(feet)	(feet)	(feet)	(feet)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
U-6 continued														
03/23/05	478.38	25.08	0.00	453.30	9.72	--	960	2.7	ND<0.50	9.6	4.8	--	2.5	
06/28/05	478.38	28.75	0.00	449.63	-3.67	--	12000	120	4.9	930	780	--	21	
09/23/05	478.38	32.38	0.00	446.00	-3.63	--	5200	78	ND<25	540	230	--	34	
12/30/05	478.38	30.43	0.00	447.95	1.95	--	2400	15	0.67	99	12	--	3.5	
03/24/06	478.38	25.94	0.00	452.44	4.49	--	4300	52	ND<5.0	440	160	--	11	
06/26/06	478.38	28.07	0.00	450.31	-2.13	--	5300	59	ND<5.0	520	300	--	ND<5.0	
09/26/06	478.38	33.31	0.00	445.07	-5.24	--	7400	78	ND<5.0	490	160	--	6.4	
11/21/06	478.38	31.65	0.00	446.73	1.66	--	1500	5.5	ND<0.50	37	2.4	--	1.4	
U-7	**(Screen Interval in feet: DNA)**													
01/03/02	478.74	32.43	0.00	446.31	--	3100	--	93	ND<10	35	73	140	130	
04/05/02	478.74	34.06	0.00	444.68	-1.63	630	--	22	0.53	2.6	ND<0.50	45	--	
07/02/02	478.74	35.28	0.00	443.46	-1.22	--	1100	21	ND<0.50	6.9	ND<1.0	--	60	
10/01/02	478.74	37.70	0.00	441.04	-2.42	--	1700	11	ND<0.50	3.1	ND<1.0	--	25	
12/30/02	478.74	31.93	0.00	446.81	5.77	--	4600	41	5.3	32	13	--	34	
05/02/03	478.74	31.81	0.00	446.93	0.12	--	3000	17	2.7	14	5.1	--	42	
07/01/03	478.74	33.47	0.00	445.27	-1.66	--	2300	11	0.53	8.0	1.5	--	35	
10/03/03	478.74	35.84	0.00	442.90	-2.37	--	6500	30	ND<5.0	41	ND<10	--	53	
01/08/04	478.74	30.35	0.00	448.39	5.49	--	1600	4.0	ND<1.0	4.2	8.7	--	56	
04/15/04	478.74	29.03	0.00	449.71	1.32	--	3600	22	1.3	64	40	--	57	
07/15/04	478.74	33.52	0.00	445.22	-4.49	--	4700	15	1.2	59	57	--	50	
12/08/04	478.74	34.68	0.00	444.06	-1.16	--	5800	26	1.9	63	27	--	52	
03/23/05	478.74	24.49	0.00	454.25	10.19	--	5600	18	1.3	42	14	--	39	
06/28/05	478.74	28.83	0.00	449.91	-4.34	--	5400	16	1.1	35	10	--	45	
09/23/05	478.74	32.35	0.00	446.39	-3.52	--	2400	13	1.3	31	6.9	--	46	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

July 1998 Through November 2006

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 (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
U-7 continued														
12/30/05	478.74	30.18	0.00	448.56	2.17	--	2500	11	1.1	28	4.3	--	35	
03/24/06	478.74	25.06	0.00	453.68	5.12	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	32	
06/26/06	478.74	28.30	0.00	450.44	-3.24	--	2500	11	1.1	45	15	--	55	
09/26/06	478.74	33.47	0.00	445.27	-5.17	--	2300	7.8	0.84	17	2.1	--	61	
11/21/06	478.74	31.66	0.00	447.08	1.81	--	3000	15	1.1	26	2.2	--	69	

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen	Pre-purge ORP	Post-purge ORP
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(mV)	(mV)
U-1											
10/02/00	ND	--	--	--	--	--	--	--	--	--	--
12/30/02	--	--	--	--	--	--	--	0.60	--	--	91
05/02/03	--	--	--	--	--	--	--	0.50	--	--	90
07/01/03	--	ND<500000	--	--	--	--	--	0.60	--	--	110
10/03/03	--	ND<500	--	--	--	--	--	3.79	--	--	329
01/08/04	--	ND<500	--	--	--	--	--	12.36	--	--	184
04/15/04	--	ND<50	--	--	--	--	--	10.56	--	--	213
07/15/04	--	ND<50	--	--	--	--	--	6.62	--	--	251
12/08/04	--	ND<50	--	--	--	--	--	2.66	--	--	68
03/23/05	--	ND<50	--	--	--	--	--	3.12	--	--	091
06/28/05	--	ND<1000	--	--	--	--	--	8.84	--	--	153
09/23/05	--	ND<1000	--	--	--	--	--	2.26	--	--	187
12/30/05	--	ND<250	--	--	--	--	--	7.74	--	--	159
03/24/06	--	ND<250	--	--	--	--	--	--	3.88	036	--
06/26/06	--	ND<250	--	--	--	--	--	--	5.50	008	--
09/26/06	--	ND<250	--	--	--	--	--	4.24	4.66	203	200
11/21/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.24	4.56	1.97	2.00
U-2											
10/02/00	ND	--	--	--	--	--	--	--	--	--	--
10/01/02	--	--	--	--	--	--	--	1.40	--	--	--
12/30/02	--	--	--	--	--	--	--	2.80	--	--	120
05/02/03	--	--	--	--	--	--	--	150.00	--	--	120
07/01/03	--	ND<500000	--	--	--	--	--	1.20	--	--	110
10/03/03	--	ND<500	--	--	--	--	--	5.61	--	--	321
01/08/04	--	ND<500	--	--	--	--	--	12.11	--	--	- 6
04/15/04	--	ND<50	--	--	--	--	--	11.39	--	--	259

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen	Pre-purge ORP	Post-purge ORP
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(mV)	(mV)
U-2 continued											
07/15/04	--	ND<50	--	--	--	--	--	7.46	--	--	238
12/08/04	--	ND<50	--	--	--	--	--	3.57	--	--	132
03/23/05	--	730	--	--	--	--	--	4.57	--	--	024
06/28/05	--	ND<1000	--	--	--	--	--	8.08	--	--	230
09/23/05	--	ND<1000	--	--	--	--	--	5.47	--	--	188
12/30/05	--	ND<250	--	--	--	--	--	8.33	--	--	177
03/24/06	--	ND<250	--	--	--	--	--	--	6.20	-004	--
06/26/06	--	ND<250	--	--	--	--	--	--	4.51	040	--
09/26/06	--	ND<250	--	--	--	--	--	3.70	3.49	-31	-17
11/21/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.70	3.45	-29	-20
U-3											
10/02/00	63000	--	--	--	--	--	--	--	--	--	--
01/08/01	49300	ND	ND	ND	ND	ND	ND	--	--	--	--
04/03/01	22200	ND	ND	ND	ND	ND	ND	--	--	--	--
07/02/01	27000	ND	ND	ND	ND	ND	ND	--	--	--	--
10/08/01	33000	ND<140000000	ND<290	ND<290	ND<290	ND<290	ND<290	--	--	--	--
01/03/02	17000	ND<50000000	ND<100	ND<100	ND<100	ND<100	ND<100	--	--	--	--
04/05/02	66000	ND<25000000	ND<100	ND<100	ND<100	ND<100	ND<100	--	--	--	--
07/02/02	47000	ND<13000000	ND<250	ND<250	ND<500	ND<250	ND<250	--	--	--	--
10/01/02	ND<50000	ND<250000000	ND<1000	ND<1000	ND<1000	ND<1000	ND<1000	0.50	--	--	- 47
12/30/02	23000	ND<100000000	ND<400	ND<400	ND<400	ND<400	ND<400	0.20	--	--	106
05/02/03	25000	ND<50000000	ND<200	ND<200	ND<200	ND<200	ND<200	0.50	--	--	85
07/01/03	32000	ND<100000000	ND<400	ND<400	ND<400	ND<400	ND<400	0.50	--	--	90
10/03/03	39000	ND<50000	ND<200	ND<200	ND<2.0	ND<200	ND<200	3.80	--	--	- 27
01/08/04	ND<20000	ND<100000	ND<400	ND<400	ND<400	ND<400	ND<400	12.82	--	--	133
04/15/04	18000	ND<2500	ND<0.5	ND<0.5	ND<1.0	ND<0.5	ND<0.5	3.11	--	--	24

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen	Pre-purge ORP	Post-purge ORP
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(mV)	(mV)
U-3 continued											
07/15/04	15000	ND<2500	ND<25	ND<25	ND<50	ND<25	ND<25	1.90	--	--	53
12/08/04	34000	ND<5000	ND<50	ND<50	ND<100	ND<50	ND<50	1.30	--	--	-81
03/23/05	--	ND<5000	--	--	--	--	--	0.52	--	--	-087
06/28/05	--	ND<1000	--	--	--	--	--	1.47	--	--	-151
09/23/05	--	ND<50000	--	--	--	--	--	1.40	--	--	-80
12/30/05	2000	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.58	1.45	--	--	-068
03/24/06	--	ND<2500	--	--	--	--	--	--	.79	003	--
06/26/06	18000	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	3.56	015	--
09/26/06	--	ND<1200	--	--	--	--	--	1.06	1.10	-72	-95
11/21/06	33000	ND<2500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	1.04	1.10	-83	-96
U-4											
04/03/01	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
07/02/01	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
01/03/02	ND<20	ND<500000	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	--
10/01/02	--	--	--	--	--	--	--	1.00	--	--	83
12/30/02	--	--	--	--	--	--	--	0.40	--	--	126
05/02/03	--	--	--	--	--	--	--	0.70	--	--	120
07/01/03	--	ND<500000	--	--	--	--	--	0.60	--	--	130
10/03/03	--	ND<500	--	--	--	--	--	2.06	--	--	3.05
01/08/04	--	ND<500	--	--	--	--	--	11.90	--	--	76
04/15/04	--	ND<50	--	--	--	--	--	3.30	--	--	116
07/15/04	--	ND<50	--	--	--	--	--	2.50	--	--	32
12/08/04	--	ND<50	--	--	--	--	--	2.09	--	--	47
03/23/05	--	ND<50	--	--	--	--	--	0.04	--	--	021
06/28/05	--	ND<1000	--	--	--	--	--	2.24	--	--	120
09/23/05	--	ND<1000	--	--	--	--	--	3.01	--	--	176

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen	Pre-purge ORP	Post-purge ORP
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(mV)	(mV)
U-4 continued											
12/30/05	--	ND<250	--	--	--	--	--	1.96	--	--	175
03/24/06	--	ND<250	--	--	--	--	--	--	1.48	015	--
06/26/06	--	ND<250	--	--	--	--	--	--	1.31	031	--
09/26/06	--	ND<250	--	--	--	--	--	1.38	1.23	-54	-7
11/21/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.38	1.13	-60	-10
U-5											
04/03/01	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
07/02/01	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
10/08/01	ND<100	ND<1000000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--
01/03/02	ND<20	ND<500000	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	--
05/02/03	--	--	--	--	--	--	--	0.60	--	--	120
07/01/03	--	ND<500	--	--	--	--	--	0.90	--	--	145
10/03/03	--	ND<500	--	--	--	--	--	2.21	--	--	3.13
01/08/04	--	ND<500	--	--	--	--	--	11.27	--	--	104
04/15/04	--	ND<50	--	--	--	--	--	3.35	--	--	65
07/15/04	--	ND<50	--	--	--	--	--	2.87	--	--	66
12/08/04	--	ND<50	--	--	--	--	--	1.67	--	--	102
03/23/05	--	ND<50	--	--	--	--	--	0.75	--	--	131
06/28/05	--	ND<1000	--	--	--	--	--	2.29	--	--	103
09/23/05	--	ND<1000	--	--	--	--	--	2.05	--	--	172
12/30/05	--	ND<250	--	--	--	--	--	1.39	--	--	171
03/24/06	--	ND<2500	--	--	--	--	--	--	.97	011	--
06/26/06	--	ND<250	--	--	--	--	--	--	7.23	091	--
09/26/06	--	ND<250	--	--	--	--	--	1.19	0.80	44	44
11/21/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.12	0.79	41	47
U-6											

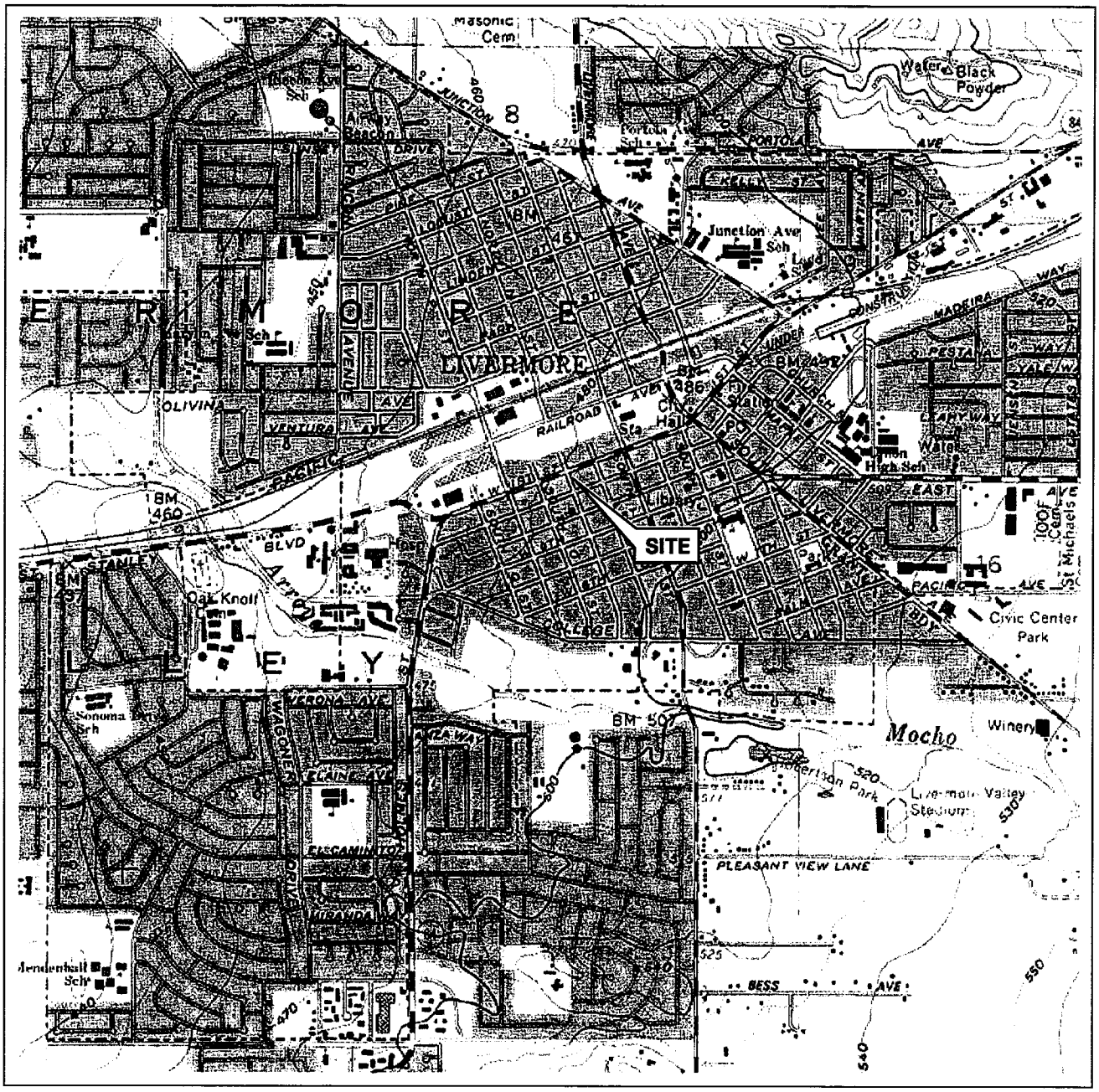
Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen	Pre-purge ORP	Post-purge ORP
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(mV)	(mV)
U-6 continued											
01/03/02	ND<200	ND<5000000	ND<10	ND<10	ND<10	ND<10	ND<10	--	--	--	--
10/01/02	--	--	--	--	--	--	--	0.90	--	--	--
12/30/02	--	--	--	--	--	--	--	0.20	--	--	88
05/02/03	--	--	--	--	--	--	--	0.90	--	--	145
07/01/03	--	ND<500000	--	--	--	--	--	0.70	--	--	120
10/03/03	--	ND<100000	--	--	--	--	--	2.26	--	--	12
01/08/04	--	ND<5000	--	--	--	--	--	11.95	--	--	- 37
04/15/04	--	ND<250	--	--	--	--	--	3.47	--	--	- 20
07/15/04	--	ND<250	--	--	--	--	--	3.25	--	--	- 43
12/08/04	--	ND<250	--	--	--	--	--	0.94	--	--	-91
03/23/05	--	ND<50	--	--	--	--	--	0.55	--	--	-077
06/28/05	--	ND<1000	--	--	--	--	--	0.86	--	--	-129
09/23/05	--	ND<50000	--	--	--	--	--	1.97	--	--	-82
12/30/05	--	ND<250	--	--	--	--	--	1.01	--	--	-66
03/24/06	--	ND<2500	--	--	--	--	--	--	1.25	011	--
06/26/06	--	ND<2500	--	--	--	--	--	--	5.48	015	--
09/26/06	--	ND<2500	--	--	--	--	--	6.97	7.05	-67	-69
11/21/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.83	1.05	-65	-69
U-7											
01/03/02	30	ND<500000	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	--
10/01/02	--	--	--	--	--	--	--	1.80	--	--	- 60
12/30/02	--	--	--	--	--	--	--	0.10	--	--	121
05/02/03	--	--	--	--	--	--	--	0.40	--	--	105
07/01/03	--	ND<500000	--	--	--	--	--	0.50	--	--	95
10/03/03	--	ND<5000	--	--	--	--	--	2.91	--	--	- 21
01/08/04	--	ND<1000	--	--	--	--	--	11.85	--	--	- 51

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen	Pre-purge ORP	Post-purge ORP
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(mV)	(mV)
U-7 continued											
04/15/04	--	ND<100	--	--	--	--	--	4.68	--	--	- 16
07/15/04	--	ND<100	--	--	--	--	--	2.55	--	--	- 52
12/08/04	--	ND<100	--	--	--	--	--	1.20	--	--	-88
03/23/05	--	ND<100	--	--	--	--	--	0.21	--	--	-088
06/28/05	--	ND<1000	--	--	--	--	--	1.32	--	--	-160
09/23/05	--	ND<1000	--	--	--	--	--	2.25	--	--	108
12/30/05	--	ND<250	--	--	--	--	--	1.12	--	--	105
03/24/06	--	ND<250	--	--	--	--	--	--	.99	008	--
06/26/06	--	ND<250	--	--	--	--	--	--	1.27	025	--
09/26/06	--	ND<250	--	--	--	--	--	0.78	1.02	-47	-63
11/21/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.88	0.98	-43	-59

FIGURES



SOURCE:

United States Geological Survey
7.5 Minute Topographic Map:
Livermore Quadrangle

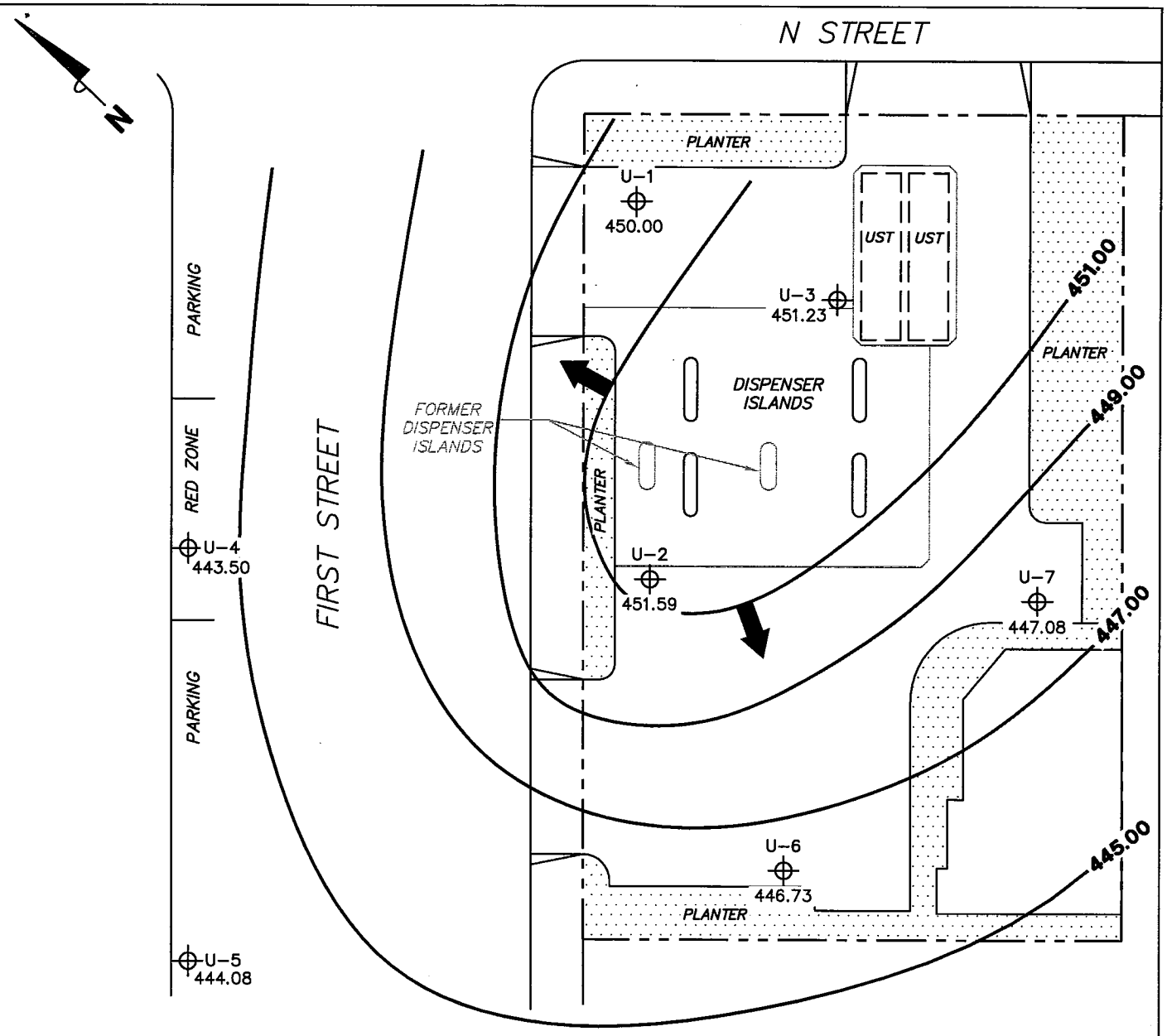
VICINITY MAP

76 Station 4186
1771 First Street
Livermore, California

FIGURE 1

TRC

PS = 1:1 L:\VICINITY MAPS\4186vm.DWG Jul 12, 2006 - 4:16pm lwinters



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. UST = underground storage tank.

LEGEND

U-7 ⊕ Monitoring Well with Groundwater Elevation (feet)

451.00 —— Groundwater Elevation Contour

➡ General Direction of Groundwater Flow

GROUNDWATER ELEVATION CONTOUR MAP
November 21, 2006

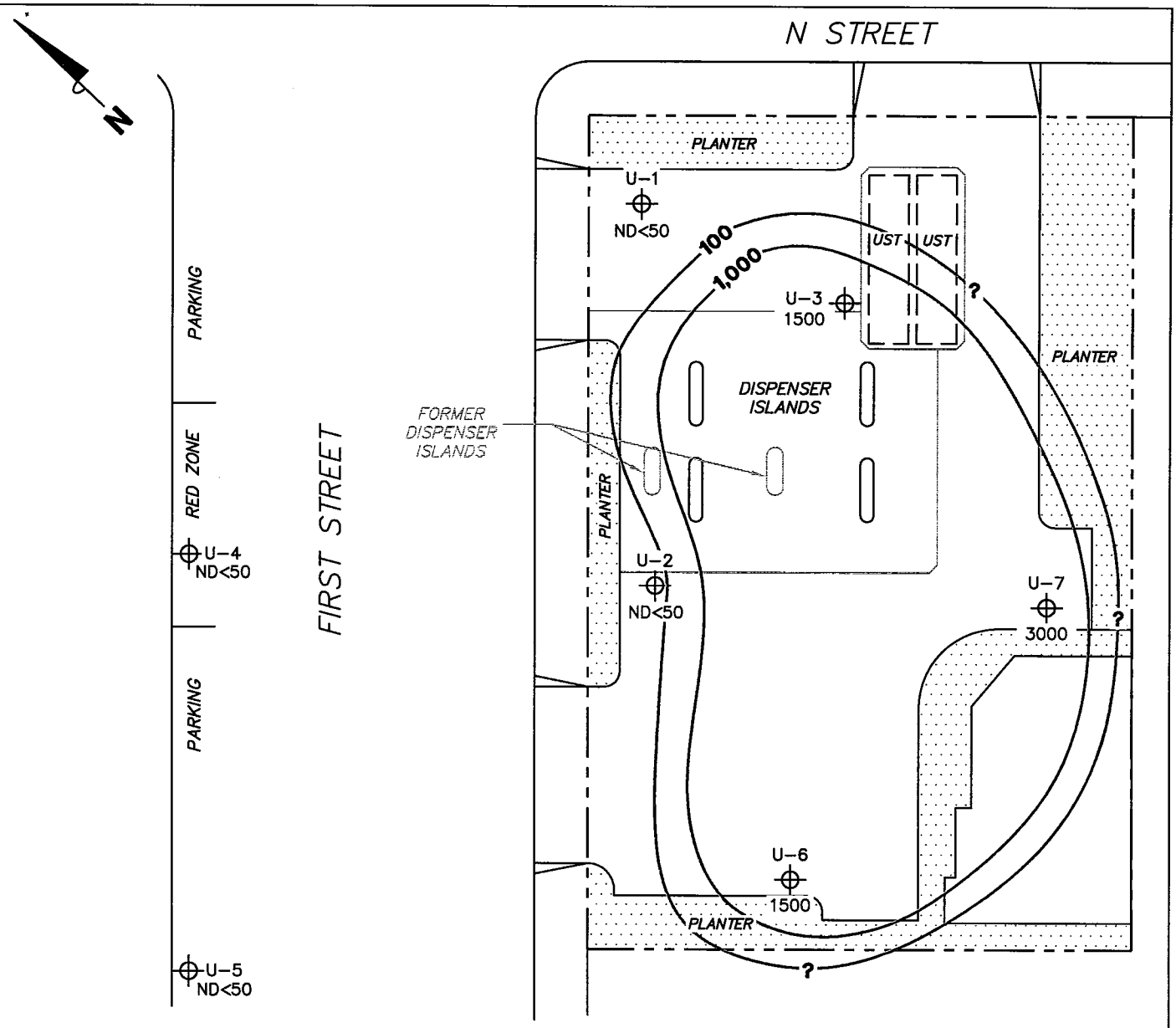
76 Station 4186
1771 First Street
Livermore, California

TRC

SCALE (FEET)
0 30

FIGURE 2

PS=1:1 4186-003 \\IRVINE-FS1\Graphics\Graphics\ProjectsByNumber\20-xxxx\20-0400(UnocalQMS)\x-4000\4186+\4186QMS.DWG Dec 13, 2006 - 12:24pm bschmidt



NOTES:

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

LEGEND

U-7 ⊕ Monitoring Well with Dissolved-Phase TPH-G (GC/MS) Concentration (µg/l)

—1,000— Dissolved-Phase TPH-G (GC/MS) Contour (µg/l)

DISSOLVED PHASE TPH-G (GC/MS) CONCENTRATION MAP November 21, 2006

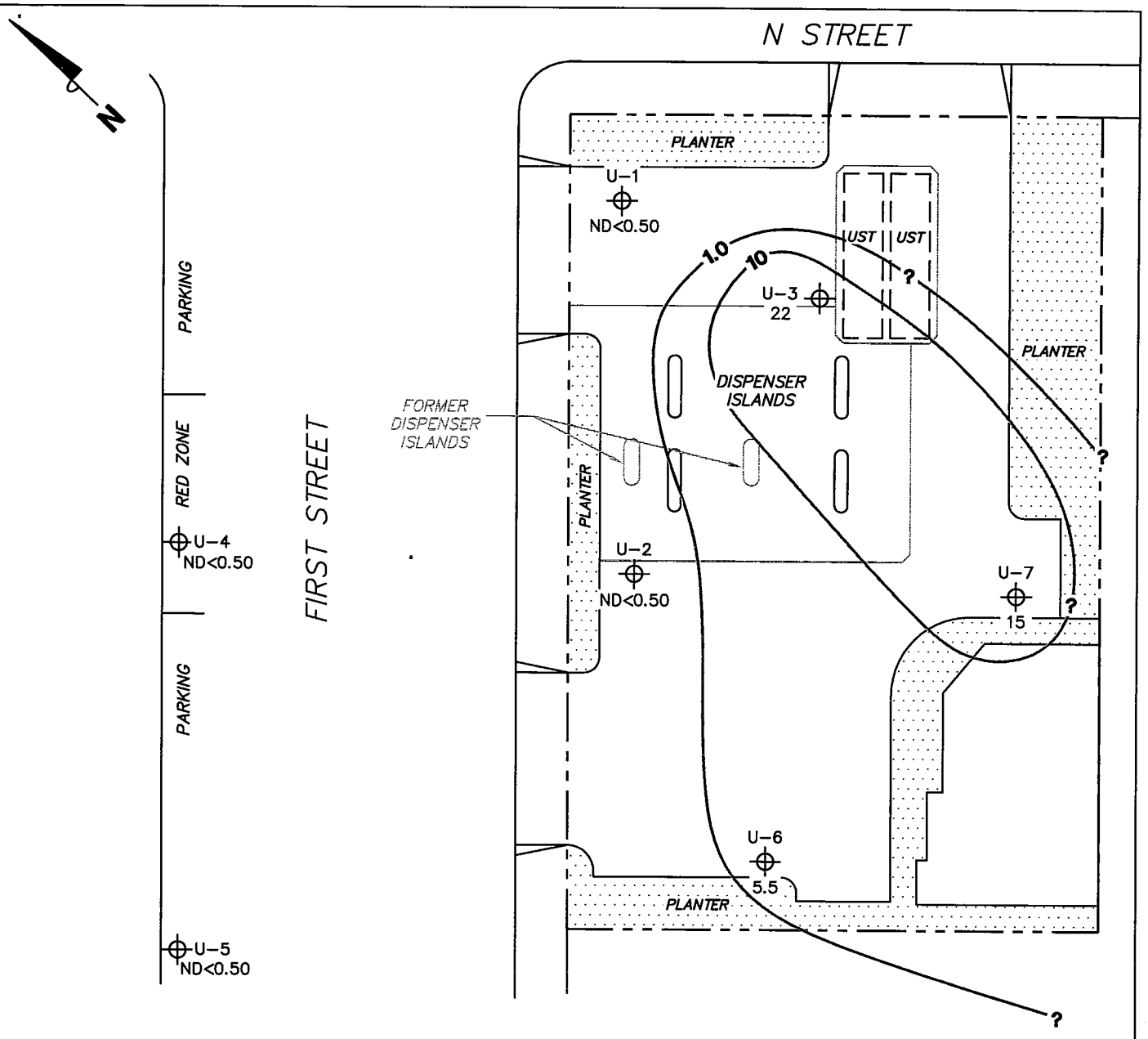
76 Station 4186
1771 First Street
Livermore, California

TRC

SCALE (FEET)
0 30

FIGURE 3

PS=1:1 4186-003 \\RVINE-FS1\Graphics\Graphics\ProjectsByNumber\20-xxxx\20-0400(UnocalQMS)\x-4000\4186+\4186QMS.DWG Dec 13, 2006 - 12:26pm bschmidt



NOTES:

Contour lines are interpretive and based on laboratory analysis of groundwater samples.
µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report.
UST = underground storage tank.

LEGEND

U-7 ⊕ Monitoring Well with Dissolved-Phase Benzene Concentration (µg/l)

—10— Dissolved-Phase Benzene Contour (µg/l)

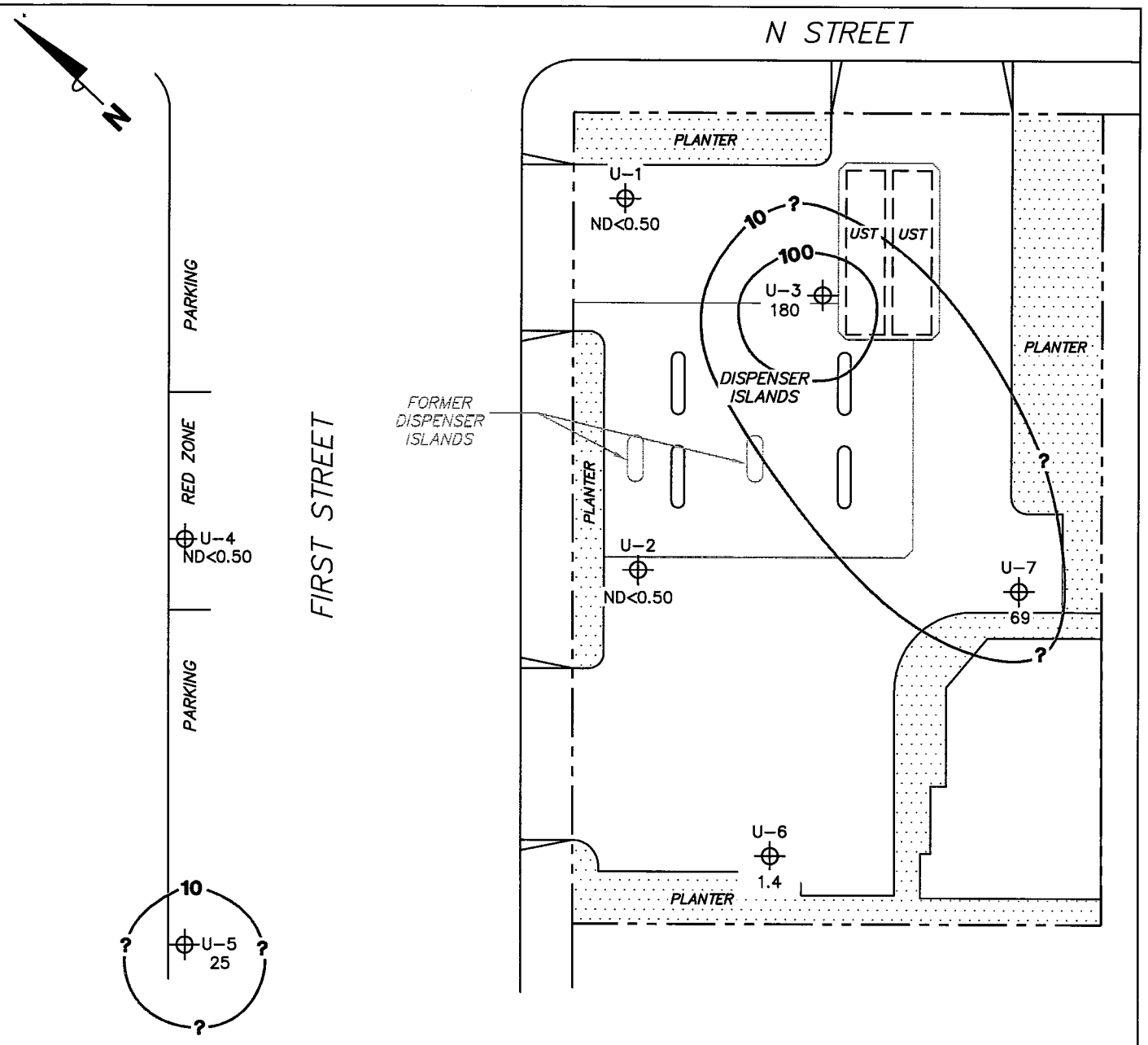
DISSOLVED-PHASE BENZENE CONCENTRATION MAP
November 21, 2006

76 Station 4186
1771 First Street
Livermore, California

TRC

SCALE (FEET)
0 30

FIGURE 4



NOTES:

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

LEGEND

U-7 ⊕ Monitoring Well with Dissolved-Phase MTBE Concentration (µg/l)

—100— Dissolved-Phase MTBE Contour (µg/l)

DISSOLVED PHASE MTBE CONCENTRATION MAP
November 21, 2006

76 Station 4186
1771 First Street
Livermore, California

TRC

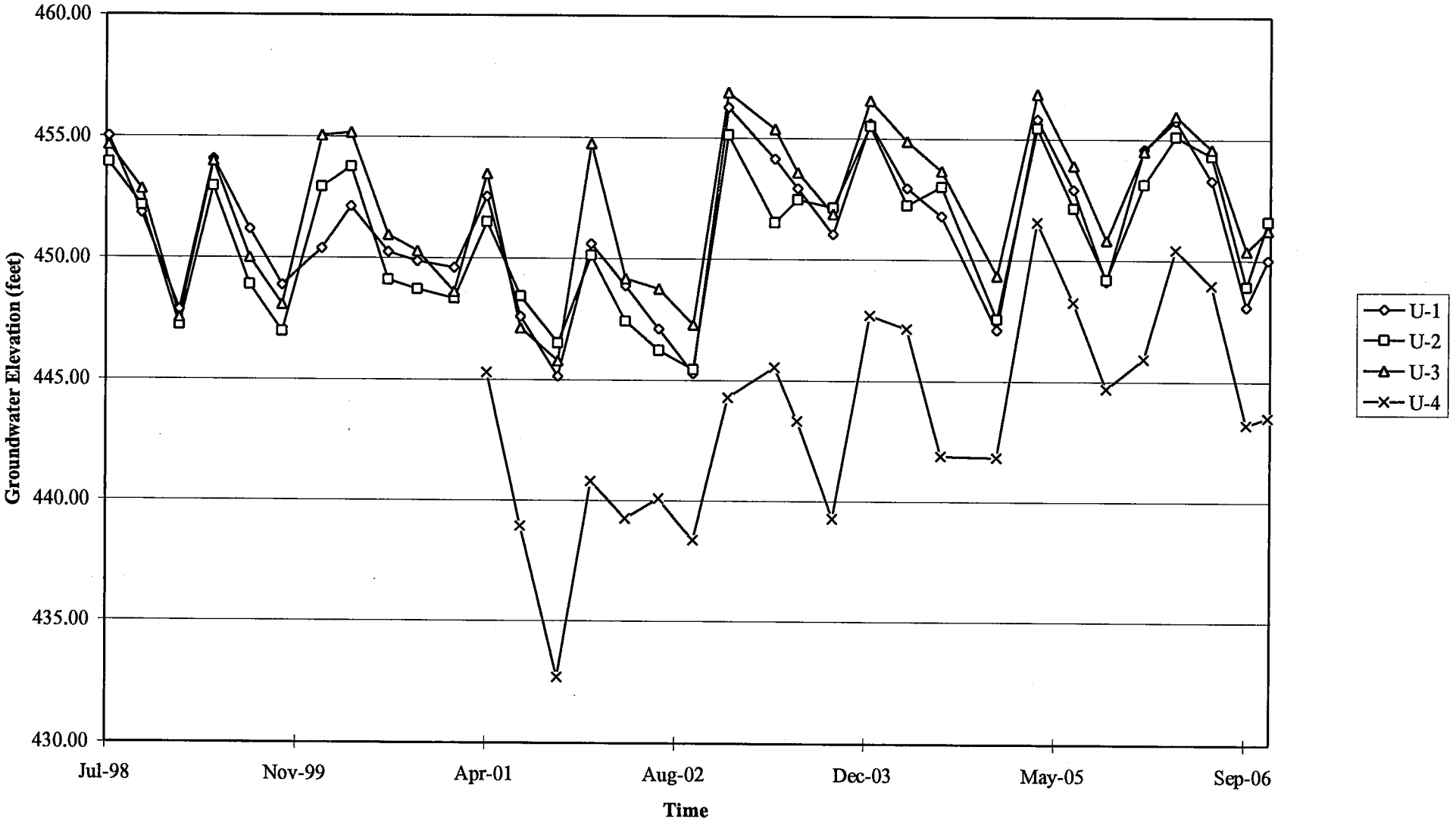
SCALE (FEET)
0 30

FIGURE 5

PS=1:1 4186-003 \\IRVINE-FS1\Graphics\Graphics\ProjectsByNumber\20-xxxx\20-0400(UnocalQMS)\x-4000\4186+\4186QMS.DWG Dec 13, 2006 - 12:26pm bschmidt

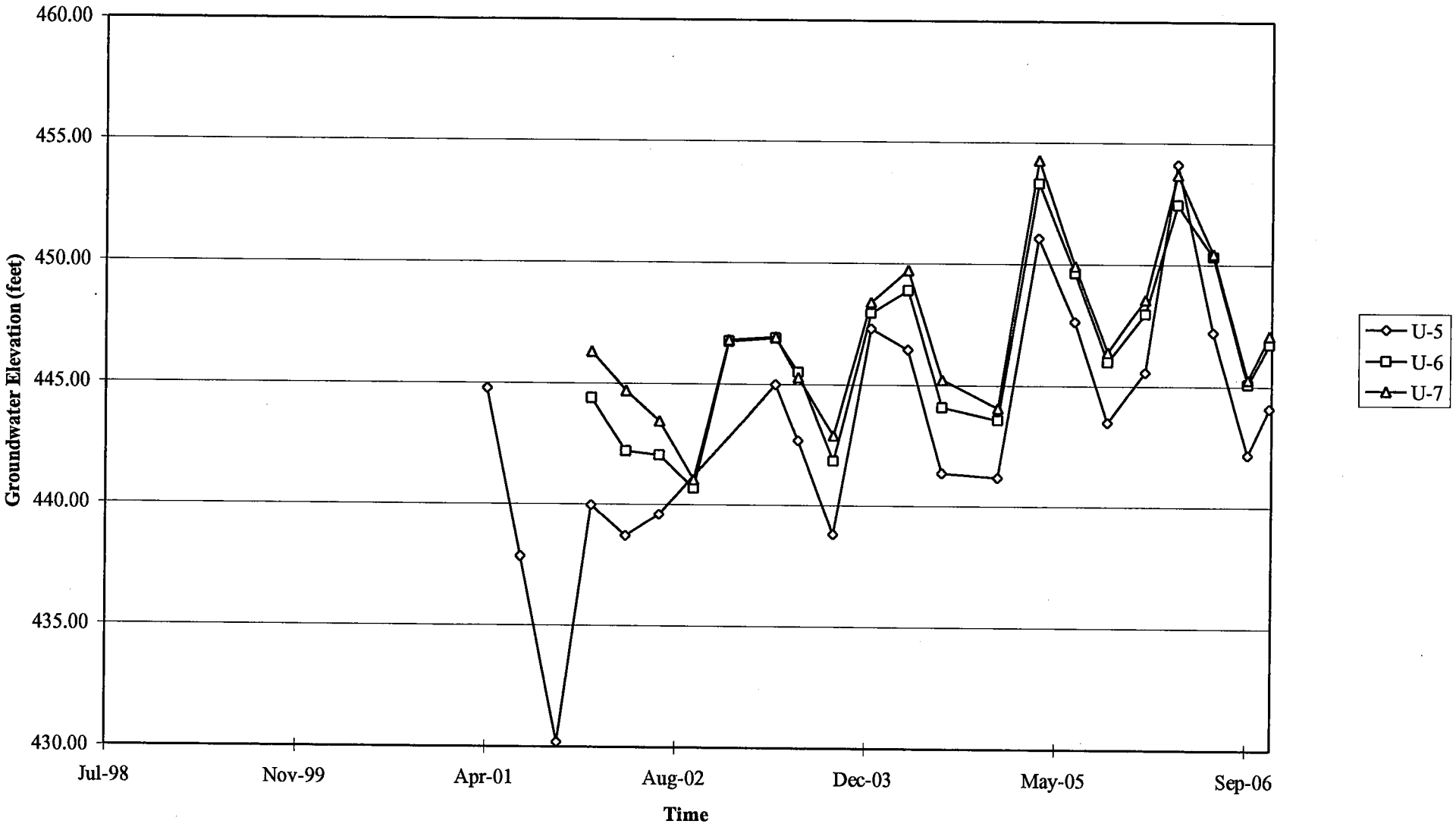
GRAPHS

Groundwater Elevations vs. Time
76 Station 4186



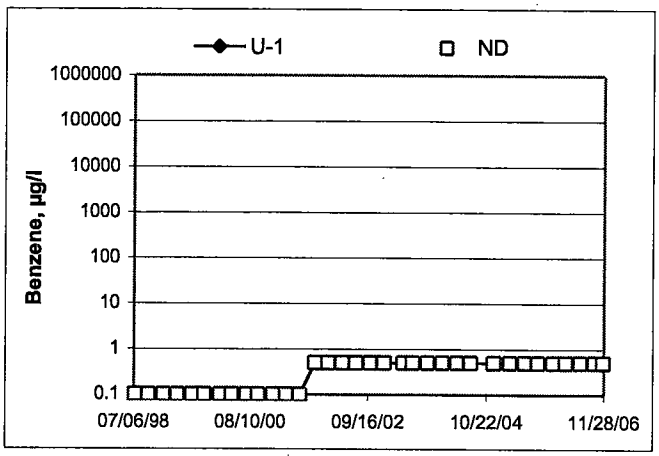
Elevations may have been corrected for apparent changes due to resurvey

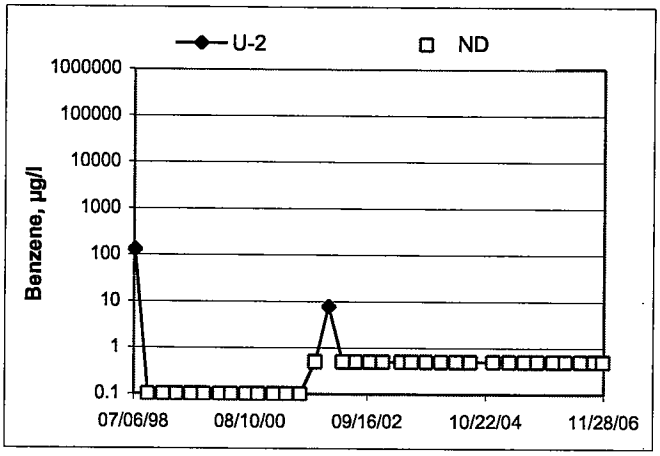
Groundwater Elevations vs. Time
76 Station 4186

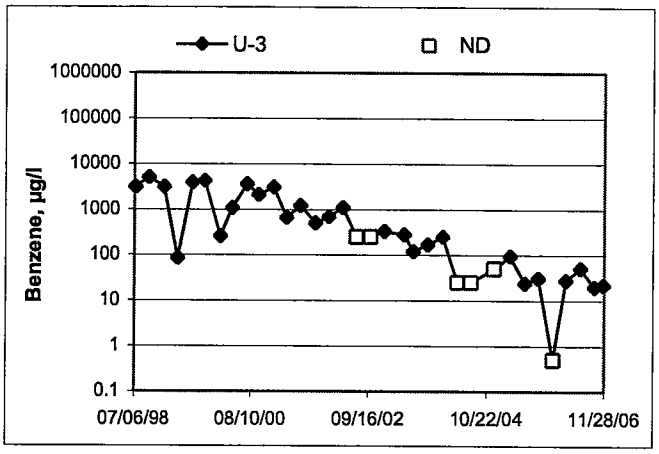


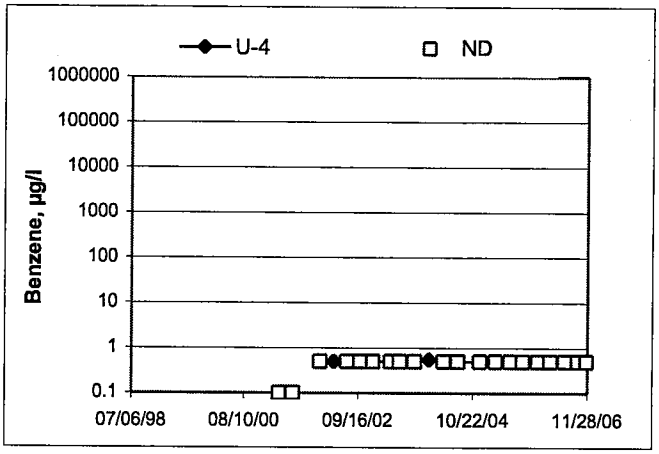
Elevations may have been corrected for apparent changes due to resurvey

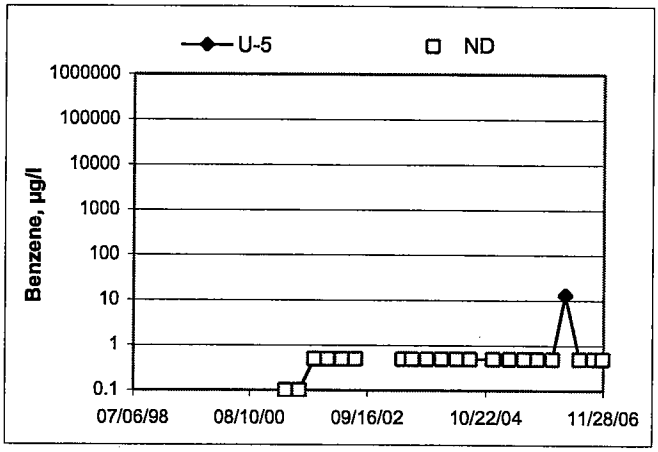
Benzene Concentrations vs Time
76 Station 4186

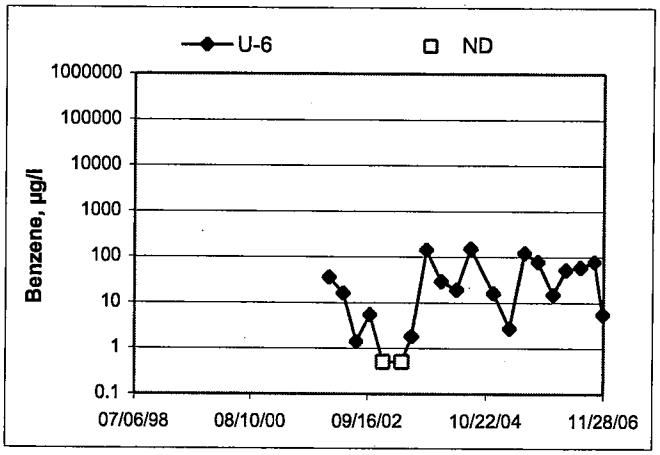


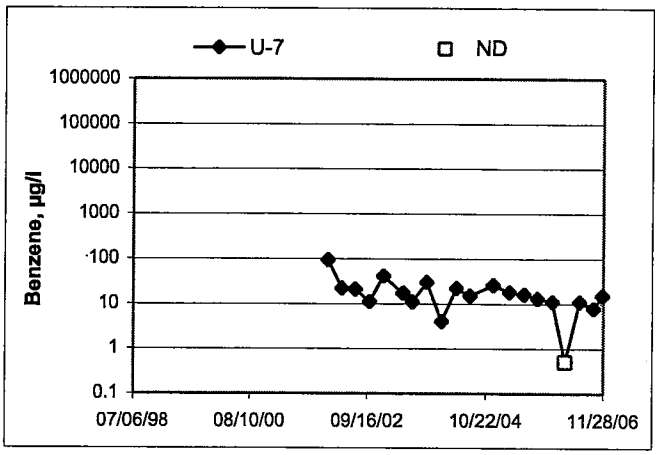












GENERAL FIELD PROCEDURES

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 measurements are calibrated daily according to manufacturer's instructions.

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

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

Groundwater Sample Collection

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

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

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

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

Sequence of Gauging, Purging and Sampling

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

Decontamination

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

Exceptions

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

FIELD MONITORING DATA SHEET

Technician: Mike J Job #/Task #: 410600d Date: 11-21-06

Site # 4196 Project Manager A. Collins Page 1 of 1

Well #	Time Gauged	TOC	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
U-1	0551	✓	33.91	24.27	—	—	0753	2"
U-2	0659	✓	33.10	25.85	—	—	0823	2"
U-6	0605	✓	44.52	31.65	—	—	0938	2"
U-4	0619	✓	45.02	33.43	✓	—	1004	2"
U-5	0627	✓	47.40	32.43	—	—	1034	2"
U-7	0635	✓	44.37	31.66	—	—	1110	2"
U-3	0642	✓	33.50	27.23	—	—	0900	2"

FIELD DATA COMPLETE QA/QC COC WELL BOX CONDITION SHEETS

WTT CERTIFICATE MANIFEST DRUM INVENTORY TRAFFIC CONTROL

GROUNDWATER SAMPLING FIELD NOTES

Technician: Mike J

Site: 4186 Project No.: 41060001 Date: 11-21-06

Well No. U-1 Purge Method: HB

Depth to Water (feet): 28.27 Depth to Product (feet): —

Total Depth (feet) 33.91 LPH & Water Recovered (gallons): —

Water Column (feet): 5.64 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 29.39 1 Well Volume (gallons): 0.9

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	D.O.	ORP	Turbidity
0742			0.9	1487	16.2	7.01	4.56	1.97	
			1.4	1474	14.3	7.21	4.34	1.99	
	0750		2.3	1480	14.9	7.25	4.24	2.00	

Static at Time Sampled	Total Gallons Purged	Sample Time
30.10	2.3	0753

Comments:

Well No. U-2 Purge Method: Sub

Depth to Water (feet): 25.85 Depth to Product (feet): —

Total Depth (feet) 33.10 LPH & Water Recovered (gallons): —

Water Column (feet): 7.25 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 27.30 1 Well Volume (gallons): 1

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	D.O.	ORP	Turbidity
0811			1	1034	17.6	6.94	3.45	-.29	
			2	1043	18.3	7.02	3.74	-19	
	0815		3	1030	18.5	7.01	3.70	-20	

Static at Time Sampled	Total Gallons Purged	Sample Time
29.86	6	0923

Comments:

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Mike J

Site: 4186 Project No.: 41060001 Date: 11-21-06

Well No. U6 Purge Method: Sub

Depth to Water (feet): 31.65 Depth to Product (feet): —

Total Depth (feet) 44.52 LPH & Water Recovered (gallons): —

Water Column (feet): 12.87 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 34.22 1 Well Volume (gallons): 2

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temperature (F, C)	pH	D.O.	ORP	Turbidity
0925			2	1235	17.1	7.01	1.05	-65	
			4	1309	18.6	6.99	1.13	-60	
	0936		6	1353	19.4	6.93	0.83	-69	

Static at Time Sampled	Total Gallons Purged	Sample Time
32.89	6	0938

Comments:

Well No. U-4 Purge Method: Sub

Depth to Water (feet): 33.43 Depth to Product (feet): —

Total Depth (feet) 45.02 LPH & Water Recovered (gallons): —

Water Column (feet): 11.59 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 35.74 1 Well Volume (gallons): 1

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temperature (F, C)	pH	D.O.	ORP	Turbidity
0958			1	1248	17.8	6.96	1.13	-60	
			2	864	18.2	7.05	1.68	-32	
	1005		3	938	19.5	7.27	1.38	-10	

Static at Time Sampled	Total Gallons Purged	Sample Time
33.43	3	1004

Comments:

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Mike J

Site: 4186 Project No.: 41060001 Date: 11-21-08

Well No. U-5 Purge Method: Sub

Depth to Water (feet): 32.83 Depth to Product (feet): —

Total Depth (feet) 47.40 LPH & Water Recovered (gallons): —

Water Column (feet): 14.97 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 35.42 1 Well Volume (gallons): 2

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	D.O.	ORP	Turbidity
1023			2	947	19.8	7.31	0.79	41	
			4	906	20.1	7.28	1.09	43	
	1026		6	932	21.8	7.26	1.17	47	

Static at Time Sampled	Total Gallons Purged	Sample Time
35.88	6	1034

Comments:

Well No. U-7 Purge Method: Sub

Depth to Water (feet): 31.66 Depth to Product (feet): —

Total Depth (feet) 44.37 LPH & Water Recovered (gallons): —

Water Column (feet): 12.71 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 34.20 1 Well Volume (gallons): 2

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	D.O.	ORP	Turbidity
1052			2	1021	13.0	7.38	0.98	-43	
			4	1183	13.9	7.19	1.03	-62	
	1059		6	1273	14.3	7.26	0.88	-59	

Static at Time Sampled	Total Gallons Purged	Sample Time
40.35	6	1110

Comments:

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Mike J

Site: 4186 Project No.: 41060001 Date: 11-21-06

Well No. 4-3 Purge Method: SUB

Depth to Water (feet): 27.23 Depth to Product (feet): —

Total Depth (feet) 33.50 LPH & Water Recovered (gallons): —

Water Column (feet): 6.27 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 28.48 1 Well Volume (gallons): 1

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temperature (F, C)	pH	D.O.	ORP	Turbidity
0842			1	1019	17.9	7.20	1.10	-83	
			2	1086	18.7	7.25	1.00	-79	
	0849		3	1100	19.6	7.24	1.04	-96	

Static at Time Sampled	Total Gallons Purged	Sample Time
30.13	3	0900

Comments:

Well No. Purge Method:

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

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

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

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

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temperature (F, C)	pH	D.O.	ORP	Turbidity

Static at Time Sampled	Total Gallons Purged	Sample Time

Comments:

TRC

BC LABORATORIES, INC.

Date of Report: 12/04/2006

Anju Farfan

TRC Alton Geoscience

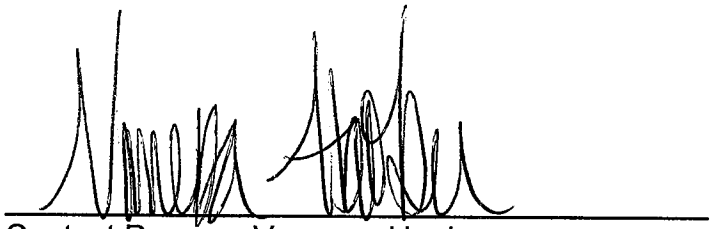
21 Technology Drive
Irvine, CA 92618-2302

RE: 4186

BC Lab Number: 0612354

Enclosed are the results of analyses for samples received by the laboratory on 11/28/06 00:39. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Contact Person: Vanessa Hooker

Client Service Rep

Authorized Signature

BC LABORATORIES, INC.

TRC Alton Geoscience	Project: 4186	
21 Technology Drive	Project Number: [none]	
Irvine CA, 92618-2302	Project Manager: Anju Farfan	**Reported:** 12/04/06 11:56

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information				
0612354-01	**COC Number:**	---	**Receive Date:**	11/28/06 00:39	Delivery Work Order:
	Project Number:	---	**Sampling Date:**	11/21/06 07:53	Global ID:
	Sampling Location:	---	**Sample Depth:**	---	Matrix:
	Sampling Point:	U-1	**Sample Matrix:**	Water	Samle QC Type (SACode):
	Sampled By:	Mike			Cooler ID:
0612354-02	**COC Number:**	---	**Receive Date:**	11/28/06 00:39	Delivery Work Order:
	Project Number:	---	**Sampling Date:**	11/21/06 08:23	Global ID:
	Sampling Location:	---	**Sample Depth:**	---	Matrix:
	Sampling Point:	U-2	**Sample Matrix:**	Water	Samle QC Type (SACode):
	Sampled By:	Mike			Cooler ID:
0612354-03	**COC Number:**	---	**Receive Date:**	11/28/06 00:39	Delivery Work Order:
	Project Number:	---	**Sampling Date:**	11/21/06 09:38	Global ID:
	Sampling Location:	---	**Sample Depth:**	---	Matrix:
	Sampling Point:	U-6	**Sample Matrix:**	Water	Samle QC Type (SACode):
	Sampled By:	Mike			Cooler ID:
0612354-04	**COC Number:**	---	**Receive Date:**	11/28/06 00:39	Delivery Work Order:
	Project Number:	---	**Sampling Date:**	11/21/06 10:08	Global ID:
	Sampling Location:	---	**Sample Depth:**	---	Matrix:
	Sampling Point:	U-4	**Sample Matrix:**	Water	Samle QC Type (SACode):
	Sampled By:	Mike			Cooler ID:
0612354-05	**COC Number:**	---	**Receive Date:**	11/28/06 00:39	Delivery Work Order:
	Project Number:	---	**Sampling Date:**	11/21/06 10:34	Global ID:
	Sampling Location:	---	**Sample Depth:**	---	Matrix:
	Sampling Point:	U-5	**Sample Matrix:**	Water	Samle QC Type (SACode):
	Sampled By:	Mike			Cooler ID:

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

Project: 4186
Project Number: [none]
Project Manager: Anju Farfan

Reported: 12/04/06 11:56

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information				
0612354-06	**COC Number:**	---	**Receive Date:**	11/28/06 00:39	Delivery Work Order:
	Project Number:	---	**Sampling Date:**	11/21/06 11:10	Global ID:
	Sampling Location:	---	**Sample Depth:**	---	Matrix:
	Sampling Point:	U-7	**Sample Matrix:**	Water	Samle QC Type (SACode):
	Sampled By:	Mike			Cooler ID:
0612354-07	**COC Number:**	---	**Receive Date:**	11/28/06 00:39	Delivery Work Order:
	Project Number:	---	**Sampling Date:**	11/21/06 09:00	Global ID:
	Sampling Location:	---	**Sample Depth:**	---	Matrix:
	Sampling Point:	U-3	**Sample Matrix:**	Water	Samle QC Type (SACode):
	Sampled By:	Mike			Cooler ID:

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

Project: 4186
Project Number: [none]
Project Manager: Anju Farfan

Reported: 12/04/06 11:56

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0612354-01 | **Client Sample Name:** U-1, 11/21/2006 7:53:00AM, Mike

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 03:44	DKC	MS-V12	1	BPK1683	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 03:44	DKC	MS-V12	1	BPK1683	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 03:44	DKC	MS-V12	1	BPK1683	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 03:44	DKC	MS-V12	1	BPK1683	ND	
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 03:44	DKC	MS-V12	1	BPK1683	ND	
Toluene	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 03:44	DKC	MS-V12	1	BPK1683	ND	
Total Xylenes	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 03:44	DKC	MS-V12	1	BPK1683	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 03:44	DKC	MS-V12	1	BPK1683	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	11/29/06	11/30/06 03:44	DKC	MS-V12	1	BPK1683	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 03:44	DKC	MS-V12	1	BPK1683	ND	
Ethanol	ND	ug/L	250		EPA-8260	11/29/06	11/30/06 03:44	DKC	MS-V12	1	BPK1683	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 03:44	DKC	MS-V12	1	BPK1683	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	11/29/06	11/30/06 03:44	DKC	MS-V12	1	BPK1683	ND	
1,2-Dichloroethane-d4 (Surrogate)	101	%	76 - 114 (LCL - UCL)		EPA-8260	11/29/06	11/30/06 03:44	DKC	MS-V12	1	BPK1683		
Toluene-d8 (Surrogate)	98.3	%	88 - 110 (LCL - UCL)		EPA-8260	11/29/06	11/30/06 03:44	DKC	MS-V12	1	BPK1683		
4-Bromofluorobenzene (Surrogate)	99.8	%	86 - 115 (LCL - UCL)		EPA-8260	11/29/06	11/30/06 03:44	DKC	MS-V12	1	BPK1683		

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

Project: 4186
Project Number: [none]
Project Manager: Anju Farfan

Reported: 12/04/06 11:56

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0612354-02 | **Client Sample Name:** U-2, 11/21/2006 8:23:00AM, Mike

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 04:09	DKC	MS-V12	1	BPK1683	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 04:09	DKC	MS-V12	1	BPK1683	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 04:09	DKC	MS-V12	1	BPK1683	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 04:09	DKC	MS-V12	1	BPK1683	ND	
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 04:09	DKC	MS-V12	1	BPK1683	ND	
Toluene	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 04:09	DKC	MS-V12	1	BPK1683	ND	
Total Xylenes	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 04:09	DKC	MS-V12	1	BPK1683	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 04:09	DKC	MS-V12	1	BPK1683	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	11/29/06	11/30/06 04:09	DKC	MS-V12	1	BPK1683	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 04:09	DKC	MS-V12	1	BPK1683	ND	
Ethanol	ND	ug/L	250		EPA-8260	11/29/06	11/30/06 04:09	DKC	MS-V12	1	BPK1683	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 04:09	DKC	MS-V12	1	BPK1683	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	11/29/06	11/30/06 04:09	DKC	MS-V12	1	BPK1683	ND	
1,2-Dichloroethane-d4 (Surrogate)	96.7	%	76 - 114 (LCL - UCL)		EPA-8260	11/29/06	11/30/06 04:09	DKC	MS-V12	1	BPK1683		
Toluene-d8 (Surrogate)	97.5	%	88 - 110 (LCL - UCL)		EPA-8260	11/29/06	11/30/06 04:09	DKC	MS-V12	1	BPK1683		
4-Bromofluorobenzene (Surrogate)	96.9	%	86 - 115 (LCL - UCL)		EPA-8260	11/29/06	11/30/06 04:09	DKC	MS-V12	1	BPK1683		

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

Project: 4186
Project Number: [none]
Project Manager: Anju Farfan

Reported: 12/04/06 11:56

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0612354-03 | **Client Sample Name:** U-6, 11/21/2006 9:38:00AM, Mike

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	5.5	ug/L	0.50		EPA-8260	11/29/06	11/30/06 13:26	DKC	MS-V12	1	BPK1683	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 13:26	DKC	MS-V12	1	BPK1683	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 13:26	DKC	MS-V12	1	BPK1683	ND	
Ethylbenzene	37	ug/L	0.50		EPA-8260	11/29/06	11/30/06 13:26	DKC	MS-V12	1	BPK1683	ND	
Methyl t-butyl ether	1.4	ug/L	0.50		EPA-8260	11/29/06	11/30/06 13:26	DKC	MS-V12	1	BPK1683	ND	
Toluene	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 13:26	DKC	MS-V12	1	BPK1683	ND	
Total Xylenes	2.4	ug/L	0.50		EPA-8260	11/29/06	11/30/06 13:26	DKC	MS-V12	1	BPK1683	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 13:26	DKC	MS-V12	1	BPK1683	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	11/29/06	11/30/06 13:26	DKC	MS-V12	1	BPK1683	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 13:26	DKC	MS-V12	1	BPK1683	ND	
Ethanol	ND	ug/L	250		EPA-8260	11/29/06	11/30/06 13:26	DKC	MS-V12	1	BPK1683	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 13:26	DKC	MS-V12	1	BPK1683	ND	
Total Purgeable Petroleum Hydrocarbons	1500	ug/L	50		EPA-8260	11/29/06	11/30/06 13:26	DKC	MS-V12	1	BPK1683	ND	
1,2-Dichloroethane-d4 (Surrogate)	96.9	%	76 - 114 (LCL - UCL)		EPA-8260	11/29/06	11/30/06 13:26	DKC	MS-V12	1	BPK1683		
Toluene-d8 (Surrogate)	99.1	%	88 - 110 (LCL - UCL)		EPA-8260	11/29/06	11/30/06 13:26	DKC	MS-V12	1	BPK1683		
4-Bromofluorobenzene (Surrogate)	102	%	86 - 115 (LCL - UCL)		EPA-8260	11/29/06	11/30/06 13:26	DKC	MS-V12	1	BPK1683		

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

Project: 4186
Project Number: [none]
Project Manager: Anju Farfan

Reported: 12/04/06 11:56

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0612354-04 | **Client Sample Name:** U-4, 11/21/2006 10:08:00AM, Mike

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 04:34	DKC	MS-V12	1	BPK1683	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 04:34	DKC	MS-V12	1	BPK1683	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 04:34	DKC	MS-V12	1	BPK1683	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 04:34	DKC	MS-V12	1	BPK1683	ND	
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 04:34	DKC	MS-V12	1	BPK1683	ND	
Toluene	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 04:34	DKC	MS-V12	1	BPK1683	ND	
Total Xylenes	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 04:34	DKC	MS-V12	1	BPK1683	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 04:34	DKC	MS-V12	1	BPK1683	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	11/29/06	11/30/06 04:34	DKC	MS-V12	1	BPK1683	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 04:34	DKC	MS-V12	1	BPK1683	ND	
Ethanol	ND	ug/L	250		EPA-8260	11/29/06	11/30/06 04:34	DKC	MS-V12	1	BPK1683	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 04:34	DKC	MS-V12	1	BPK1683	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	11/29/06	11/30/06 04:34	DKC	MS-V12	1	BPK1683	ND	A53
1,2-Dichloroethane-d4 (Surrogate)	96.8	%	76 - 114	(LCL - UCL)	EPA-8260	11/29/06	11/30/06 04:34	DKC	MS-V12	1	BPK1683		
Toluene-d8 (Surrogate)	98.0	%	88 - 110	(LCL - UCL)	EPA-8260	11/29/06	11/30/06 04:34	DKC	MS-V12	1	BPK1683		
4-Bromofluorobenzene (Surrogate)	97.6	%	86 - 115	(LCL - UCL)	EPA-8260	11/29/06	11/30/06 04:34	DKC	MS-V12	1	BPK1683		

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

Project: 4186
Project Number: [none]
Project Manager: Anju Farfan

Reported: 12/04/06 11:56

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0612354-05 | **Client Sample Name:** U-5, 11/21/2006 10:34:00AM, Mike

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 08:46	DKC	MS-V12	1	BPK1683	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 08:46	DKC	MS-V12	1	BPK1683	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 08:46	DKC	MS-V12	1	BPK1683	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 08:46	DKC	MS-V12	1	BPK1683	ND	
Methyl t-butyl ether	25	ug/L	0.50		EPA-8260	11/29/06	11/30/06 08:46	DKC	MS-V12	1	BPK1683	ND	
Toluene	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 08:46	DKC	MS-V12	1	BPK1683	ND	
Total Xylenes	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 08:46	DKC	MS-V12	1	BPK1683	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 08:46	DKC	MS-V12	1	BPK1683	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	11/29/06	11/30/06 08:46	DKC	MS-V12	1	BPK1683	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 08:46	DKC	MS-V12	1	BPK1683	ND	
Ethanol	ND	ug/L	250		EPA-8260	11/29/06	11/30/06 08:46	DKC	MS-V12	1	BPK1683	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 08:46	DKC	MS-V12	1	BPK1683	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	11/29/06	11/30/06 08:46	DKC	MS-V12	1	BPK1683	ND	A53
1,2-Dichloroethane-d4 (Surrogate)	97.6	%	76 - 114 (LCL - UCL)		EPA-8260	11/29/06	11/30/06 08:46	DKC	MS-V12	1	BPK1683		
Toluene-d8 (Surrogate)	97.4	%	88 - 110 (LCL - UCL)		EPA-8260	11/29/06	11/30/06 08:46	DKC	MS-V12	1	BPK1683		
4-Bromofluorobenzene (Surrogate)	98.0	%	86 - 115 (LCL - UCL)		EPA-8260	11/29/06	11/30/06 08:46	DKC	MS-V12	1	BPK1683		

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

Project: 4186
Project Number: [none]
Project Manager: Anju Farfan

Reported: 12/04/06 11:56

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0612354-06 | **Client Sample Name:** U-7, 11/21/2006 11:10:00AM, Mike

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	15	ug/L	0.50		EPA-8260	11/29/06	11/30/06 09:11	DKC	MS-V12	1	BPK1683	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 09:11	DKC	MS-V12	1	BPK1683	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 09:11	DKC	MS-V12	1	BPK1683	ND	
Ethylbenzene	26	ug/L	0.50		EPA-8260	11/29/06	11/30/06 09:11	DKC	MS-V12	1	BPK1683	ND	
Methyl t-butyl ether	69	ug/L	0.50		EPA-8260	11/29/06	11/30/06 09:11	DKC	MS-V12	1	BPK1683	ND	
Toluene	1.1	ug/L	0.50		EPA-8260	11/29/06	11/30/06 09:11	DKC	MS-V12	1	BPK1683	ND	
Total Xylenes	2.2	ug/L	0.50		EPA-8260	11/29/06	11/30/06 09:11	DKC	MS-V12	1	BPK1683	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 09:11	DKC	MS-V12	1	BPK1683	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	11/29/06	11/30/06 09:11	DKC	MS-V12	1	BPK1683	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 09:11	DKC	MS-V12	1	BPK1683	ND	
Ethanol	ND	ug/L	250		EPA-8260	11/29/06	11/30/06 09:11	DKC	MS-V12	1	BPK1683	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	11/29/06	11/30/06 09:11	DKC	MS-V12	1	BPK1683	ND	
Total Purgeable Petroleum Hydrocarbons	3000	ug/L	100		EPA-8260	11/29/06	11/30/06 14:42	DKC	MS-V12	2	BPK1683	ND	A01
1,2-Dichloroethane-d4 (Surrogate)	96.1	%	76 - 114 (LCL - UCL)		EPA-8260	11/29/06	11/30/06 14:42	DKC	MS-V12	2	BPK1683		
1,2-Dichloroethane-d4 (Surrogate)	98.0	%	76 - 114 (LCL - UCL)		EPA-8260	11/29/06	11/30/06 09:11	DKC	MS-V12	1	BPK1683		
Toluene-d8 (Surrogate)	101	%	88 - 110 (LCL - UCL)		EPA-8260	11/29/06	11/30/06 14:42	DKC	MS-V12	2	BPK1683		
Toluene-d8 (Surrogate)	98.7	%	88 - 110 (LCL - UCL)		EPA-8260	11/29/06	11/30/06 09:11	DKC	MS-V12	1	BPK1683		
4-Bromofluorobenzene (Surrogate)	104	%	86 - 115 (LCL - UCL)		EPA-8260	11/29/06	11/30/06 09:11	DKC	MS-V12	1	BPK1683		
4-Bromofluorobenzene (Surrogate)	100	%	86 - 115 (LCL - UCL)		EPA-8260	11/29/06	11/30/06 14:42	DKC	MS-V12	2	BPK1683		

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21 Technology Drive
Irvine CA, 92618-2302

Project: 4186
Project Number: [none]
Project Manager: Anju Farfan

Reported: 12/04/06 11:56

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0612354-07 | **Client Sample Name:** U-3, 11/21/2006 9:00:00AM, Mike

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	22	ug/L	5.0		EPA-8260	11/29/06	11/29/06 19:06	DKC	MS-V12	10	BPK1683	ND	A01
1,2-Dibromoethane	ND	ug/L	5.0		EPA-8260	11/29/06	11/29/06 19:06	DKC	MS-V12	10	BPK1683	ND	A01
1,2-Dichloroethane	ND	ug/L	5.0		EPA-8260	11/29/06	11/29/06 19:06	DKC	MS-V12	10	BPK1683	ND	A01
Ethylbenzene	5.8	ug/L	5.0		EPA-8260	11/29/06	11/29/06 19:06	DKC	MS-V12	10	BPK1683	ND	A01
Methyl t-butyl ether	180	ug/L	5.0		EPA-8260	11/29/06	11/29/06 19:06	DKC	MS-V12	10	BPK1683	ND	A01
Toluene	ND	ug/L	5.0		EPA-8260	11/29/06	11/29/06 19:06	DKC	MS-V12	10	BPK1683	ND	A01
Total Xylenes	ND	ug/L	5.0		EPA-8260	11/29/06	11/29/06 19:06	DKC	MS-V12	10	BPK1683	ND	A01
t-Amyl Methyl ether	ND	ug/L	5.0		EPA-8260	11/29/06	11/29/06 19:06	DKC	MS-V12	10	BPK1683	ND	A01
t-Butyl alcohol	33000	ug/L	100		EPA-8260	11/29/06	11/29/06 19:06	DKC	MS-V12	10	BPK1683	ND	A01
Diisopropyl ether	ND	ug/L	5.0		EPA-8260	11/29/06	11/29/06 19:06	DKC	MS-V12	10	BPK1683	ND	A01
Ethanol	ND	ug/L	2500		EPA-8260	11/29/06	11/29/06 19:06	DKC	MS-V12	10	BPK1683	ND	A01
Ethyl t-butyl ether	ND	ug/L	5.0		EPA-8260	11/29/06	11/29/06 19:06	DKC	MS-V12	10	BPK1683	ND	A01
Total Purgeable Petroleum Hydrocarbons	1500	ug/L	500		EPA-8260	11/29/06	11/29/06 19:06	DKC	MS-V12	10	BPK1683	ND	A01
1,2-Dichloroethane-d4 (Surrogate)	92.4	%	76 - 114 (LCL - UCL)		EPA-8260	11/29/06	11/29/06 19:06	DKC	MS-V12	10	BPK1683		
Toluene-d8 (Surrogate)	99.1	%	88 - 110 (LCL - UCL)		EPA-8260	11/29/06	11/29/06 19:06	DKC	MS-V12	10	BPK1683		
4-Bromofluorobenzene (Surrogate)	101	%	86 - 115 (LCL - UCL)		EPA-8260	11/29/06	11/29/06 19:06	DKC	MS-V12	10	BPK1683		

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

Project: 4186
Project Number: [none]
Project Manager: Anju Farfan

Reported: 12/04/06 11:56

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
Benzene	BPK1683	Matrix Spike	0612269-03	0.58000	26.910	25.000	ug/L		105		70 - 130	
		Matrix Spike Duplicate	0612269-03	0.58000	26.930	25.000	ug/L	0.0759	105	20	70 - 130	
Toluene	BPK1683	Matrix Spike	0612269-03	ND	24.770	25.000	ug/L		99.1		70 - 130	
		Matrix Spike Duplicate	0612269-03	ND	24.480	25.000	ug/L	1.18	97.9	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	BPK1683	Matrix Spike	0612269-03	ND	10.240	10.000	ug/L		102		76 - 114	
		Matrix Spike Duplicate	0612269-03	ND	10.250	10.000	ug/L		102		76 - 114	
Toluene-d8 (Surrogate)	BPK1683	Matrix Spike	0612269-03	ND	9.9500	10.000	ug/L		99.5		88 - 110	
		Matrix Spike Duplicate	0612269-03	ND	9.9500	10.000	ug/L		99.5		88 - 110	
4-Bromofluorobenzene (Surrogate)	BPK1683	Matrix Spike	0612269-03	ND	10.020	10.000	ug/L		100		86 - 115	
		Matrix Spike Duplicate	0612269-03	ND	10.280	10.000	ug/L		103		86 - 115	

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

Project: 4186
Project Number: [none]
Project Manager: Anju Farfan

Reported: 12/04/06 11:56

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
Benzene	BPK1683	BPK1683-BS1	LCS	27.870	25.000	0.50	ug/L	111		70 - 130		
Toluene	BPK1683	BPK1683-BS1	LCS	26.090	25.000	0.50	ug/L	104		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BPK1683	BPK1683-BS1	LCS	9.5700	10.000		ug/L	95.7		76 - 114		
Toluene-d8 (Surrogate)	BPK1683	BPK1683-BS1	LCS	9.8800	10.000		ug/L	98.8		88 - 110		
4-Bromofluorobenzene (Surrogate)	BPK1683	BPK1683-BS1	LCS	9.9700	10.000		ug/L	99.7		86 - 115		

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21 Technology Drive
Irvine CA, 92618-2302

Project: 4186
Project Number: [none]
Project Manager: Anju Farfan

Reported: 12/04/06 11:56

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Benzene	BPK1683	BPK1683-BLK1	ND	ug/L	0.50	0.14	
1,2-Dibromoethane	BPK1683	BPK1683-BLK1	ND	ug/L	0.50	0.22	
1,2-Dichloroethane	BPK1683	BPK1683-BLK1	ND	ug/L	0.50	0.15	
Ethylbenzene	BPK1683	BPK1683-BLK1	ND	ug/L	0.50	0.094	
Methyl t-butyl ether	BPK1683	BPK1683-BLK1	ND	ug/L	0.50	0.13	
Toluene	BPK1683	BPK1683-BLK1	ND	ug/L	0.50	0.12	
Total Xylenes	BPK1683	BPK1683-BLK1	ND	ug/L	0.50	0.31	
t-Amyl Methyl ether	BPK1683	BPK1683-BLK1	ND	ug/L	0.50	0.34	
t-Butyl alcohol	BPK1683	BPK1683-BLK1	ND	ug/L	10	9.3	
Diisopropyl ether	BPK1683	BPK1683-BLK1	ND	ug/L	0.50	0.34	
Ethanol	BPK1683	BPK1683-BLK1	ND	ug/L	250	85	
Ethyl t-butyl ether	BPK1683	BPK1683-BLK1	ND	ug/L	0.50	0.32	
Total Purgeable Petroleum Hydrocarbons	BPK1683	BPK1683-BLK1	ND	ug/L	50	16	
1,2-Dichloroethane-d4 (Surrogate)	BPK1683	BPK1683-BLK1	94.0	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BPK1683	BPK1683-BLK1	97.8	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BPK1683	BPK1683-BLK1	97.7	%	86 - 115 (LCL - UCL)		

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

Project: 4186
Project Number: [none]
Project Manager: Anju Farfan

Reported: 12/04/06 11:56

Notes and Definitions

J	Estimated value
A53	Chromatogram not typical of gasoline.
A01	PQL's and MDL's are raised due to sample dilution.
ND	Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

BC LABORATORIES INC. **SAMPLE RECEIPT FORM** Rev. No. 10 01/21/04 Page 1 Of 1

Submission #: 06-12354 | Project Code: | TB Batch #

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☐ Blue Ice ☐ None ☒ Other ☐ Comments: No Ice in Container @ time of receive

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

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

COC Received ☒ YES ☐ NO

Ice Chest ID R1W Emissivity 0.98 Date/Time 11/28/6
Temperature: 8-6 °C Container 2+A
Thermometer ID: 48 Analyst Init AMK

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

Comments: 1 voa for -5 was received broken
Sample Numbering Completed By: SLC 3 Date/Time: 11/28/06 08:55

06-12354

CHK BY	DISTRIBUTION
JLR	JKR
	SUB-OUT ☐

BC LABORATORIES, INC.

4100 Atlas Court ☐ Bakersfield, CA 93308
(661) 327-4911 ☐ FAX (661) 327-1918

CHAIN OF CUSTODY

Analysis Requested

Circle one: Phillips 66 / Unocal	**Consultant Firm: TRC**
Address: 1171 First Street	**21 Techology Drive Irvine, CA 92618-2302 Attn: Anju Farfan**
City: Livermore	**4-digit site#:** 4186
	Workorder # 01237-45069567R
State: CA **Zip:**	**Project #:** 41060001/FA20
Phillips 66 /Unocal Mgr:	**Sampler Name:** Mike D

MATRIX
(GW) Groundwater
(S) Soil
(WW) Wastewater
(SL) Sludge

Lab#	Sample Description	Field Point Name	Date & Time Sampled	MATRIX	BTEX/MTBE by 8021B, Gas by 8015	TPH GAS by 8015M	TPH DIESEL by 8015	8260 full list w/ MTBE & oxygenates	BTEX/MTBE/OXYS BY 8260B	ETHANOL by 8260B	TPH -G by GC/MS	EDB/EDC by 8260B			Turnaround Time Requested
	-1	U-1	11-21-06 0753	GW					X	X	X	X			STD
	-2	U-2	11-21-06 0823	GW					X	X	X	X			STD
	-3	U-6	11-21-06 0938	GW					X	X	X	X			STD
	-4	U-4	11-21-06 1008	GW					X	X	X	X			STD
	-5	U-5	11-21-06 1034	GW					X	X	X	X			STD
	-6	U-7	11-21-06 1110	GW					X	X	X	X			STD
	-7	U-3	11-21-06 0900	GW					X	X	X	X			STD

Comments:	Relinquished by: (Signature)	Received by:	Date & Time
		REFRIGERATED	11-21-06 - 1430
GLOBAL ID: T0600101777	Relinquished by: (Signature) D. Serino	Received by:	Date & Time 11-27-06 1358
	Relinquished by: (Signature) 11-28-06 0039	Received by: Teri Obafeni	Date & Time 11/28/06 0039

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

STATEMENTS

Purge Water Disposal

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

Limitations

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