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By dehloptoxic at 9:22 am, Nov 07, 2006



76 Broadway
Sacramento, California 95818

November 3, 2006

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

**Re: Report Transmittal
Quarterly Report
Third 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,

A handwritten signature in black ink that reads "Thomas H. Kosel". The signature is written in a cursive, flowing style.

Thomas Kosel
Risk Management & Remediation

Attachment

November 3, 2006

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

Re: **Quarterly Summary Report – Third Quarter 2006**
Delta Project Number: C104186041



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

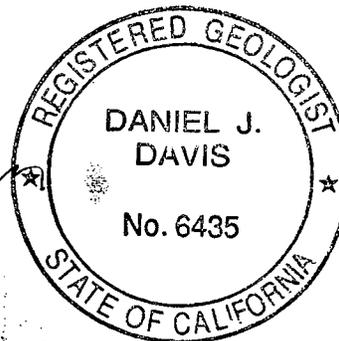
Sincerely,
Delta Consultants

A handwritten signature in black ink, appearing to read "Ben Wright".

Ben Wright
Staff Geologist

A handwritten signature in black ink, appearing to read "Daniel J. Davis".

Daniel J. Davis, R.G.
Project Manager



Forward: TRC - Quarterly Monitoring Report
Environ Strategy Consultants – Quarterly Ozone
Injection System O&M Report

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

QUARTERLY SUMMARY REPORT
Third 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 (UST).

On June 6, 1996, six soil samples were collected from beneath the fuel dispensers and product delivery piping during dispenser and piping replacement activities. Results of soil sample analyses were reported as not detected (ND) for total petroleum hydrocarbons as gasoline (TPH-G), and benzene, toluene, ethylbenzene and total xylenes (BTEX) for each sample collected beneath the dispenser islands and product delivery piping.

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 results from the gas probes ranged from 41 to 4,500 parts per billion by volume (ppb-v) for TPHG, ND to 110 ppb-v for benzene and ND to 8,000 ppb-v for methyl tertiary butyl ether (MTBE). 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 and 2,800 feet southwest and west of the site.

On June 16, 1998, three 2-inch diameter groundwater monitor wells (U-1 through U-3) were installed. The wells were each installed to a depth of approximately 34 feet bgs. Soil samples collected from the three well borings were reported as ND for TPH-G, benzene, and MTBE.

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 installed to depths of approximately 47 feet bgs. TPH-G, BTEX and MTBE were not detected in the soil samples analyzed. TPH-G and benzene were ND in groundwater samples analyzed from wells U-4 and U-5. MTBE was

detected in groundwater samples from wells U-4 and U-5 at concentrations of 38.2 micrograms per liter ($\mu\text{g/l}$) and 55.4 $\mu\text{g/l}$, respectively; other fuel oxygenates were non-detectable. 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 - 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 installed to 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 $\frac{3}{4}$ -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 installed to depths of 45 feet bgs. Sparge points SP-6S and SP-7S were installed to depths of 25 feet bgs. The remaining two sparge locations contain nested sparge points (SP-5, SP-5S, SP-8 and SP-8S) installed 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 - 26, 2006 seven soil borings (B-1 through B-7) were drilled. Three boreholes were advanced for each soil boring location. The initial borehole was drilled to provide a cone penetrometer (CPT) log of subsurface lithologies. The second borehole was drilled to collect soil samples for identification and laboratory analysis, and to collect a depth-discrete groundwater sample at 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 feet bgs to maximum depths explored.

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

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

MONITORING AND SAMPLING

Groundwater is currently monitored and sampled on a quarterly basis. During the September 26, 2006 monitoring and sampling event, depth to groundwater ranged from 28.08 feet (U-3) to 34.35 feet (U-5) below top of casing (TOC). The groundwater flow direction was north, west and south at a gradient of 0.05 foot per foot (ft/ft). Historic groundwater flow directions are shown in Attachment A.

Maximum dissolved groundwater concentrations were present as follows: total petroleum hydrocarbons with gasoline distinction (TPH-G) (7,400 $\mu\text{g/l}$ in U-6), benzene (78 $\mu\text{g/l}$ in U-6), and MTBE (170 $\mu\text{g/l}$ in U-3).

REMEDIATION STATUS

The ozone sparge system, manufactured by KVA, was placed into operation on December 19, 2001 and is designed to cycle the ozone/oxygen injection between 10 sparge points. A typical injection schedule for this site was designed to operate at 18 times a day at 5 and 15 minutes per point per cycle. The system's current cycle frequency is 8 minutes. Remediation system operation and maintenance is conducted by Environ Strategy Consultants, Inc. (ES) under direct contract to ConocoPhillips.

For the Third Quarter 2006, the ozone sparge system operated for 384 hours, equivalent to 19% of the programmed runtime, and injected 3.5 pounds of ozone. System operation and maintenance (O&M) activity is conducted on a monthly to semi-monthly basis.

The system was found non-operational on July 11, July 29, August 8, August 22, September 5, and September 19, 2006 due to a tripped ozone sensor. In each instance the system was reset and restarted.

CHARACTERIZATION STATUS

The furthest up-gradient monitor well, U-3, contained 170 µg/l MTBE and 1,200 µg/l TPH-G during the third quarter 2006 sampling event. The furthest offsite down-gradient well, U-5, contained 51 µg/l of MTBE this quarter.

RECENT CORRESPONDENCE

Delta received technical comments from Alameda County Health Care Services and a request for a revised work plan to assess the vertical extent of contamination at the site.

THIS QUARTER ACTIVITIES (Third Quarter 2006)

1. TRC conducted the quarterly monitoring and sampling at the site.
2. ES conducted system operation and maintenance activities at the site.

WASTE DISPOSAL SUMMARY

A total of 2.2 cubic yards of soil cuttings generated during the April 2006 soil investigation was disposed of from the site during this reporting period.

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

NEXT QUARTER ACTIVITIES (Fourth Quarter 2006)

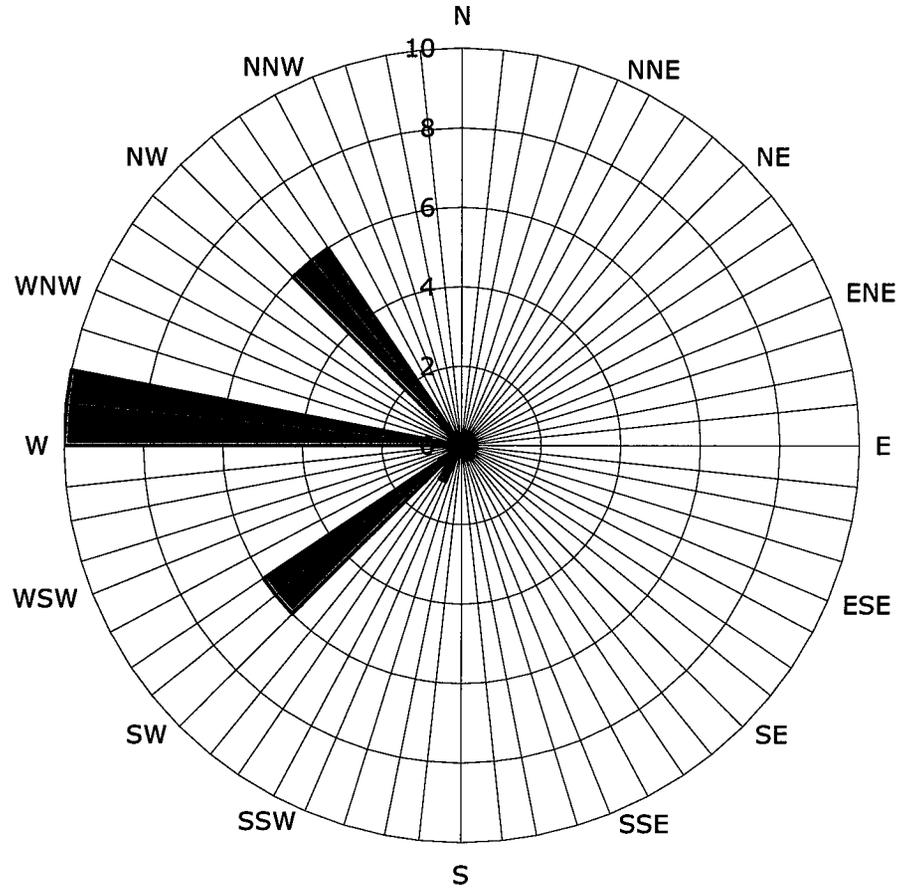
1. TRC will conduct quarterly groundwater monitoring and sampling at the site.
2. ES will shut down the ozone injection system to evaluate potential effects on groundwater hydrocarbon concentrations.

2. Delta will submit 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.

CONSULTANT: Delta Consultants

Attachment A – 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 monitoring events
 Fourth Quarter 2000 through Second
 Quarter 2006
 23 data points shown



October 12, 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
JULY THROUGH SEPTEMBER 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

A handwritten signature in black ink, appearing to read 'Anju Farfan'.

Anju Farfan
QMS Operations Manager

CC: Mr. Daniel Davis, Delta Environmental Consultants, Inc. (3 copies)

Enclosures
20-0400/4186R12.QMS.doc





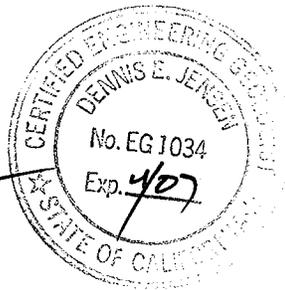
**QUARTERLY MONITORING REPORT
JULY THROUGH SEPTEMBER 2006**

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
October 12, 2006



LIST OF ATTACHMENTS

Summary Sheet	Summary of Gauging and Sampling Activities
Tables	<p>Table Key</p> <p>Contents of Tables</p> <p>Table 1: Current Fluid Levels and Selected Analytical Results</p> <p>Table 1a: Additional Current Analytical Results</p> <p>Table 2: Historic Fluid Levels and Selected Analytical Results</p> <p>Table 2a: Additional Historic Analytical Results</p>
Figures	<p>Figure 1: Vicinity Map</p> <p>Figure 2: Groundwater Elevation Contour Map</p> <p>Figure 3: Dissolved-Phase TPH-G (GC/MS) Concentration Map</p> <p>Figure 4: Dissolved-Phase Benzene Concentration Map</p> <p>Figure 5: Dissolved-Phase MTBE Concentration Map</p>
Graphs	<p>Groundwater Elevations vs. Time</p> <p>Benzene Concentrations vs. Time</p>
Field Activities	<p>General Field Procedures</p> <p>Field Monitoring Data Sheet - 09/26/06</p> <p>Groundwater Sampling Field Notes - 09/26/06</p>
Laboratory Reports	<p>Official Laboratory Reports</p> <p>Quality Control Reports</p> <p>Chain of Custody Records</p>
Statements	<p>Purge Water Disposal</p> <p>Limitations</p>

Summary of Gauging and Sampling Activities
July 2006 through September 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: **09/26/06**

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: **28.08 feet** Maximum: **34.35 feet**
Average groundwater elevation (relative to available local datum): **446.16 feet**
Average change in groundwater elevation since previous event: **-5.14 feet**
Interpreted groundwater gradient and flow direction:
 Current event: **0.05 ft/ft, north, west and south**
 Previous event: **0.07 ft/ft, northwest to southwest (06/26/06)**

Selected Laboratory Results

Wells with detected **Benzene**: **3** Wells above MCL (1.0 µg/l): **3**
 Maximum reported benzene concentration: **78 µg/l (U-6)**
Wells with **TPH-G by GC/MS** **3** Maximum: **7,400 µg/l (U-6)**
Wells with **MTBE** **5** Maximum: **170 µg/l (U-3)**

Notes:

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

REFERENCE

TRC began groundwater monitoring and sampling for 76 Station 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

Table 1	Well/ Date	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
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Table 1a	Well/ Date	Ethanol (8260B)	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen	Pre-purge ORP	Post-purge ORP
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Historic Data

Table 2	Well/ Date	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
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Table 2a	Well/ Date	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
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Table 1
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
September 26, 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														
(Screen Interval in feet: 14.0-34.0)														
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	
U-2														
(Screen Interval in feet: 13.0-34.0)														
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	
U-3														
(Screen Interval in feet: 14.0-34.0)														
09/26/06	478.46	28.08	0.00	450.38	-4.19	--	1200	20	ND<2.5	5.2	2.8	--	170	
U-4														
(Screen Interval in feet: 35.0-45.0)														
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	
U-5														
(Screen Interval in feet: 37.0-47.0)														
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	
U-6														
(Screen Interval in feet: DNA)														
09/26/06	478.38	33.31	0.00	445.07	-5.24	--	7400	78	ND<5.0	490	160	--	6.4	
U-7														
(Screen Interval in feet: DNA)														
09/26/06	478.74	33.47	0.00	445.27	-5.17	--	2300	7.8	0.84	17	2.1	--	61	

Table 1 a
ADDITIONAL CURRENT ANALYTICAL RESULTS
76 Station 4186

Date Sampled	Ethanol (8260B) (µg/l)	Post-purge Dissolved Oxygen (mg/l)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)	Post-purge ORP (mV)
U-1 09/26/06	ND<250	4.24	4.66	203	200
U-2 09/26/06	ND<250	3.70	3.49	-31	-17
U-3 09/26/06	ND<1200	1.06	1.10	-72	-95
U-4 09/26/06	ND<250	1.38	1.23	-54	-7
U-5 09/26/06	ND<250	1.19	0.80	44	44
U-6 09/26/06	ND<2500	6.97	7.05	-67	-69
U-7 09/26/06	ND<250	0.78	1.02	-47	-63

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
July 1998 Through September 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 (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 September 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	
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	--	
07/02/01	477.44	29.01	0.00	448.43	-3.06	ND	--	ND	ND	ND	ND	16	--	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
July 1998 Through September 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														
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	
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	--	
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	--	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
July 1998 Through September 2006
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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (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														
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	
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	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
July 1998 Through September 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														
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	
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	
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	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
July 1998 Through September 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)	(feet)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
U-4 continued														
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	
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	
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	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
July 1998 Through September 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														
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	
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	
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	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
July 1998 Through September 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-6 continued														
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	
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	
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	

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
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
07/15/04	--	ND<50	--	--	--	--	--	7.46	--	--	238

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											
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
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<14000000	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<25000000	ND<1000	ND<1000	ND<1000	ND<1000	ND<1000	0.50	--	--	-47
12/30/02	23000	ND<10000000	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<10000000	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
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

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											
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
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
12/30/05	--	ND<250	--	--	--	--	--	1.96	--	--	175
03/24/06	--	ND<250	--	--	--	--	--	--	1.48	015	--
06/26/06	--	ND<250	--	--	--	--	--	--	1.31	031	--

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											
09/26/06	--	ND<250	--	--	--	--	--	1.38	1.23	-54	-7
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
U-6											
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

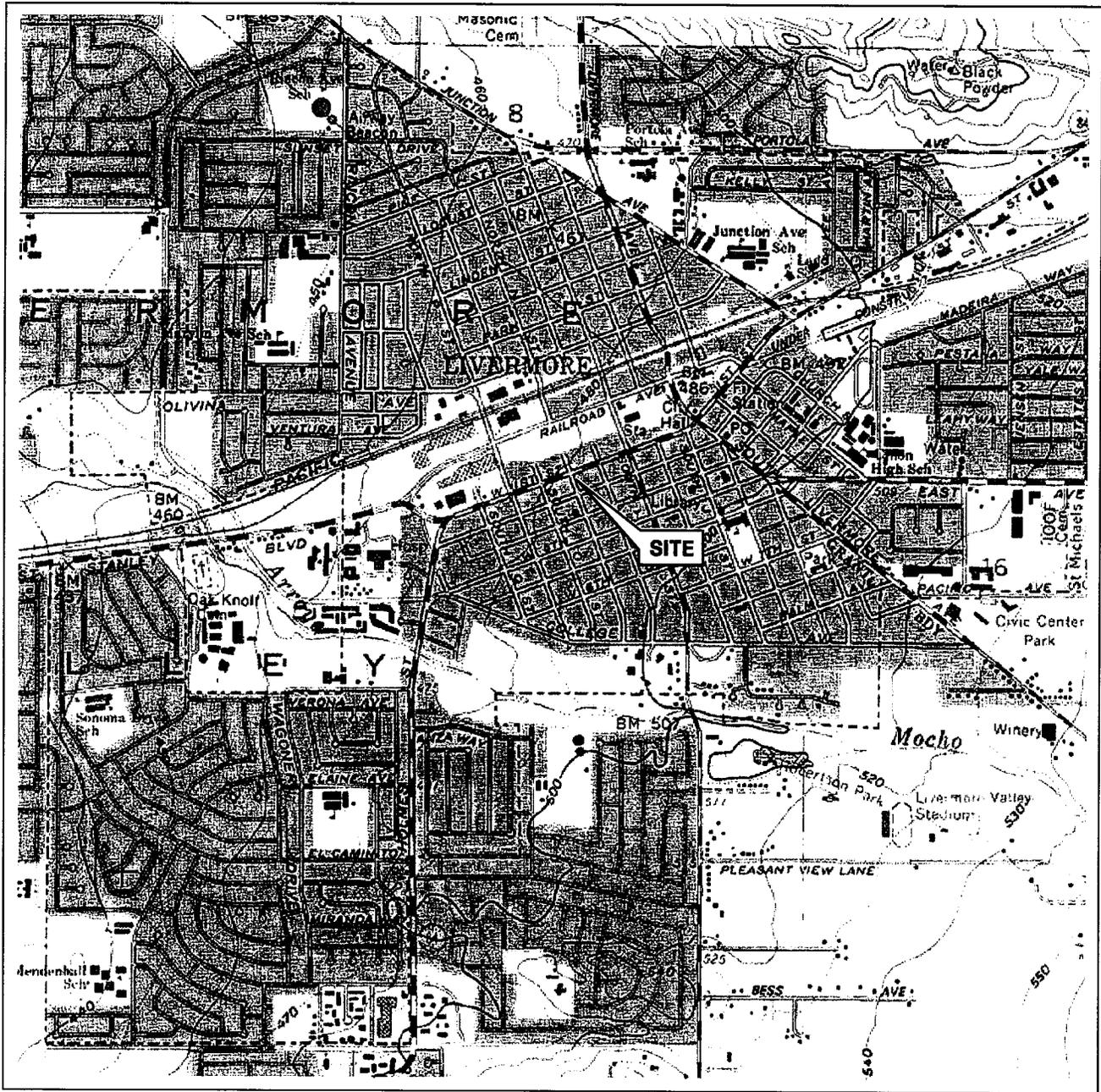
Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

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											
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
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
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

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											
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

FIGURES



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

SCALE 1:24,000



SOURCE:

United States Geological Survey
7.5 Minute Topographic Map:
Livermore Quadrangle



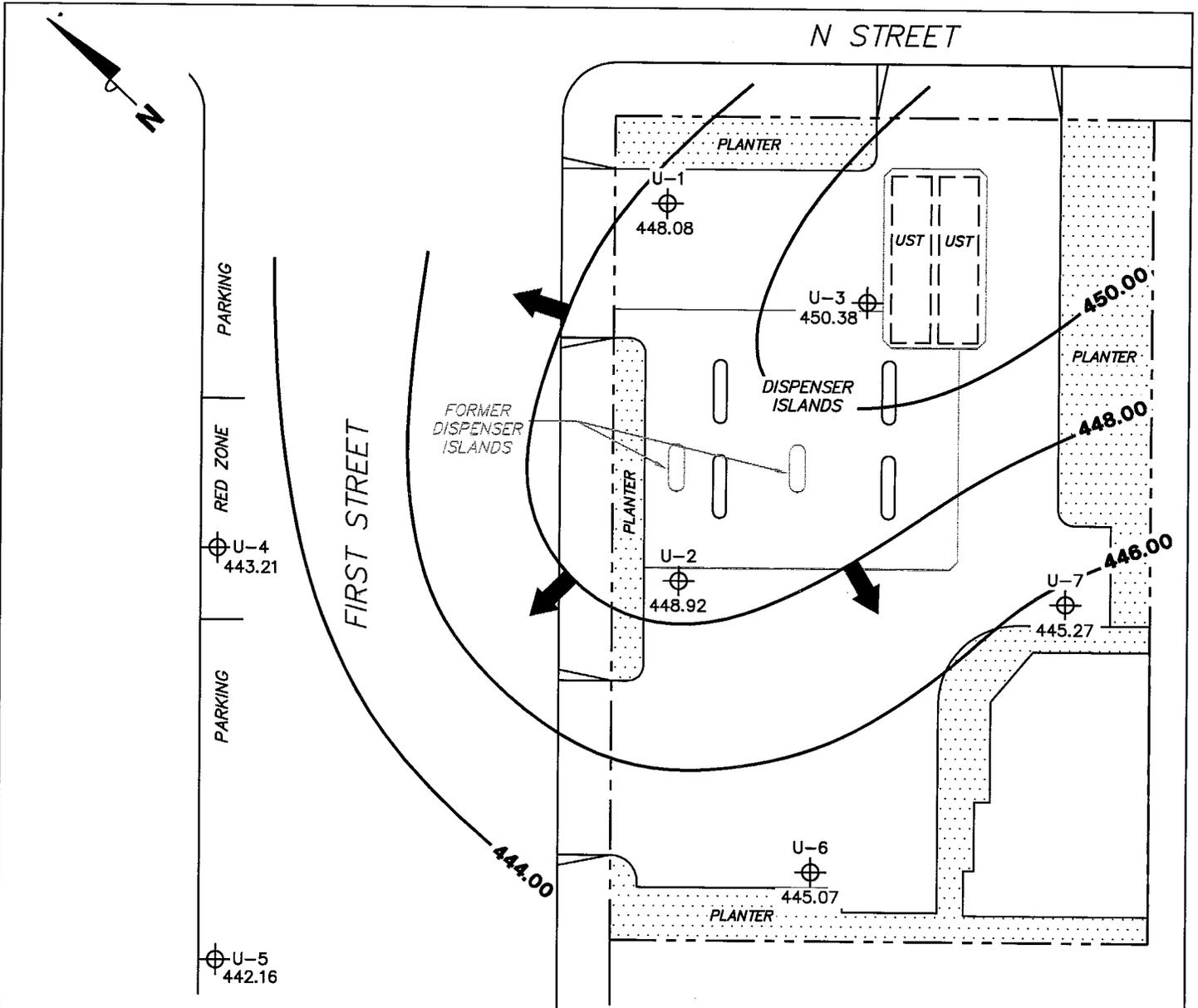
VICINITY MAP

76 Station 4186
1771 First Street
Livermore, California

TRC

FIGURE 1

PS=1:1.4186-0.03\IRVINE-FSI\Graphics\Projects\Number\20-xxxx\20-0400(UnocalQMS)\x-4000\4186+\4186QMS.DWG Oct 11, 2006 - 5:08pm bschmidt



NOTES:

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

LEGEND

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

**GROUNDWATER ELEVATION
CONTOUR MAP
September 26, 2006**

76 Station 4186
1771 First Street
Livermore, California

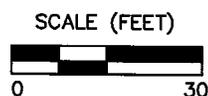
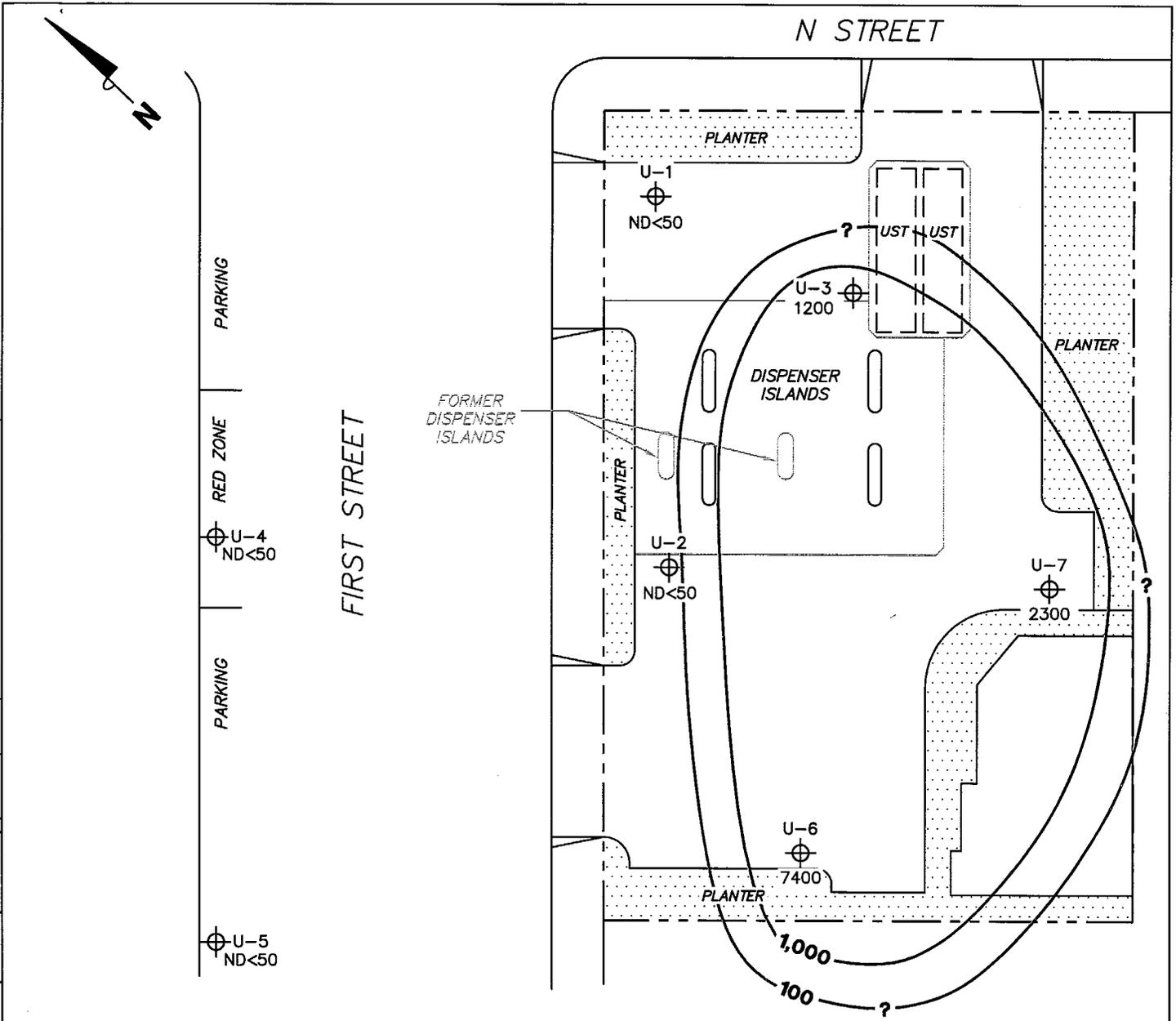


FIGURE 2

PS=1:1_4186-003\VRVINE-FS1\Graphics\Projects\Number\20-xxxx\20-0400(UnocalQMS)\x-4000\4186+\4186GMS.DWG Oct 11, 2006 - 1:05pm 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
September 26, 2006**

76 Station 4186
1771 First Street
Livermore, California

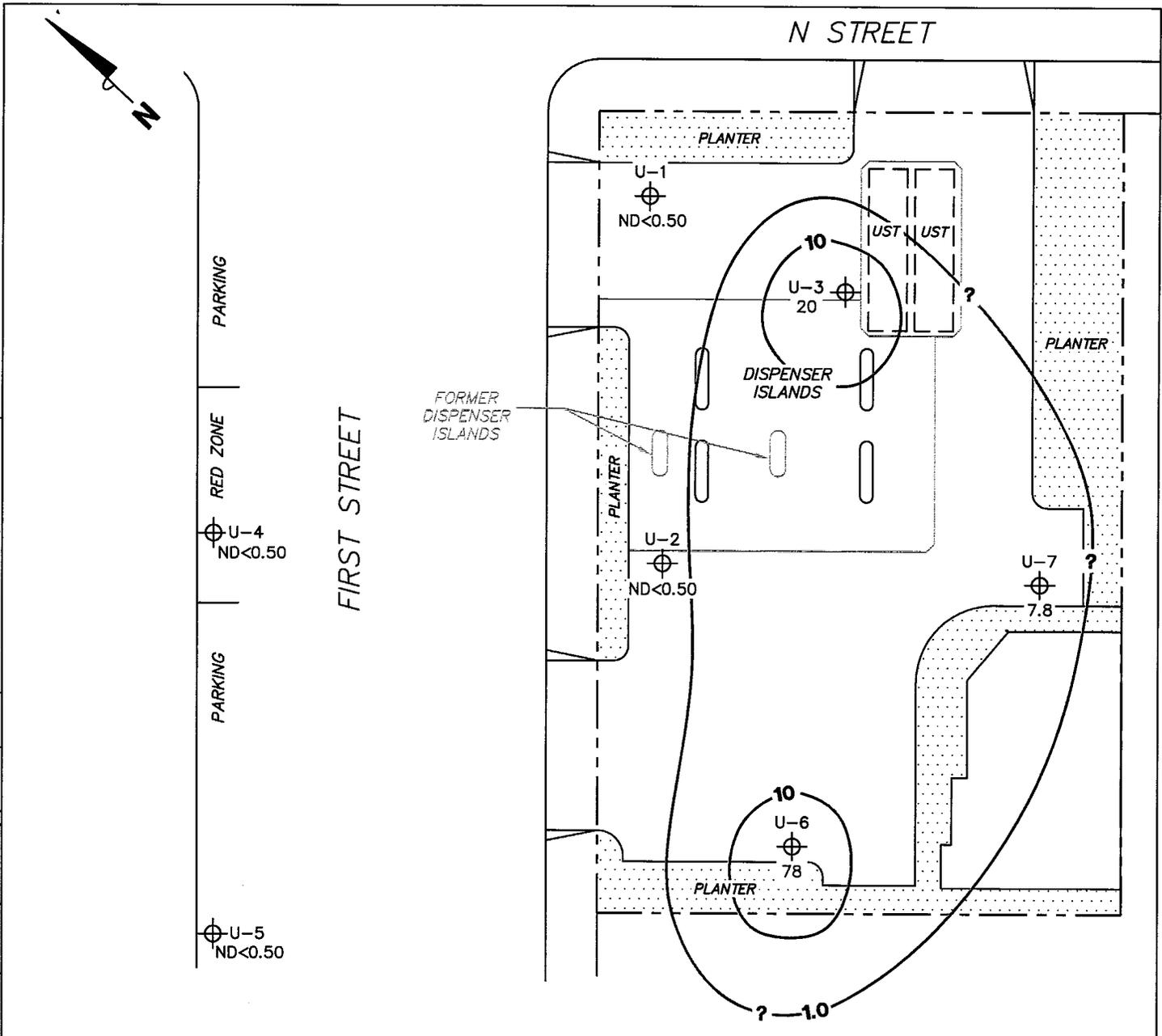
TRC

SCALE (FEET)



FIGURE 3

PS=1:1 4186-003 \\VRVINE-FS1\Graphics\Projects\Number\20-xxxx\20-0400(UnocalQMS)\x-4000\4186+\4186QMS.DWG Oct 11, 2006 - 1:13pm bschmidt



NOTES:

Contour lines are interpretive and based on laboratory analysis of groundwater samples.
 $\mu\text{g/l}$ = 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 Concentrations ($\mu\text{g/l}$)

Dissolved-Phase Benzene Contour ($\mu\text{g/l}$)

DISSOLVED-PHASE BENZENE CONCENTRATION MAP
September 26, 2006

76 Station 4186
 1771 First Street
 Livermore, California

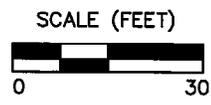
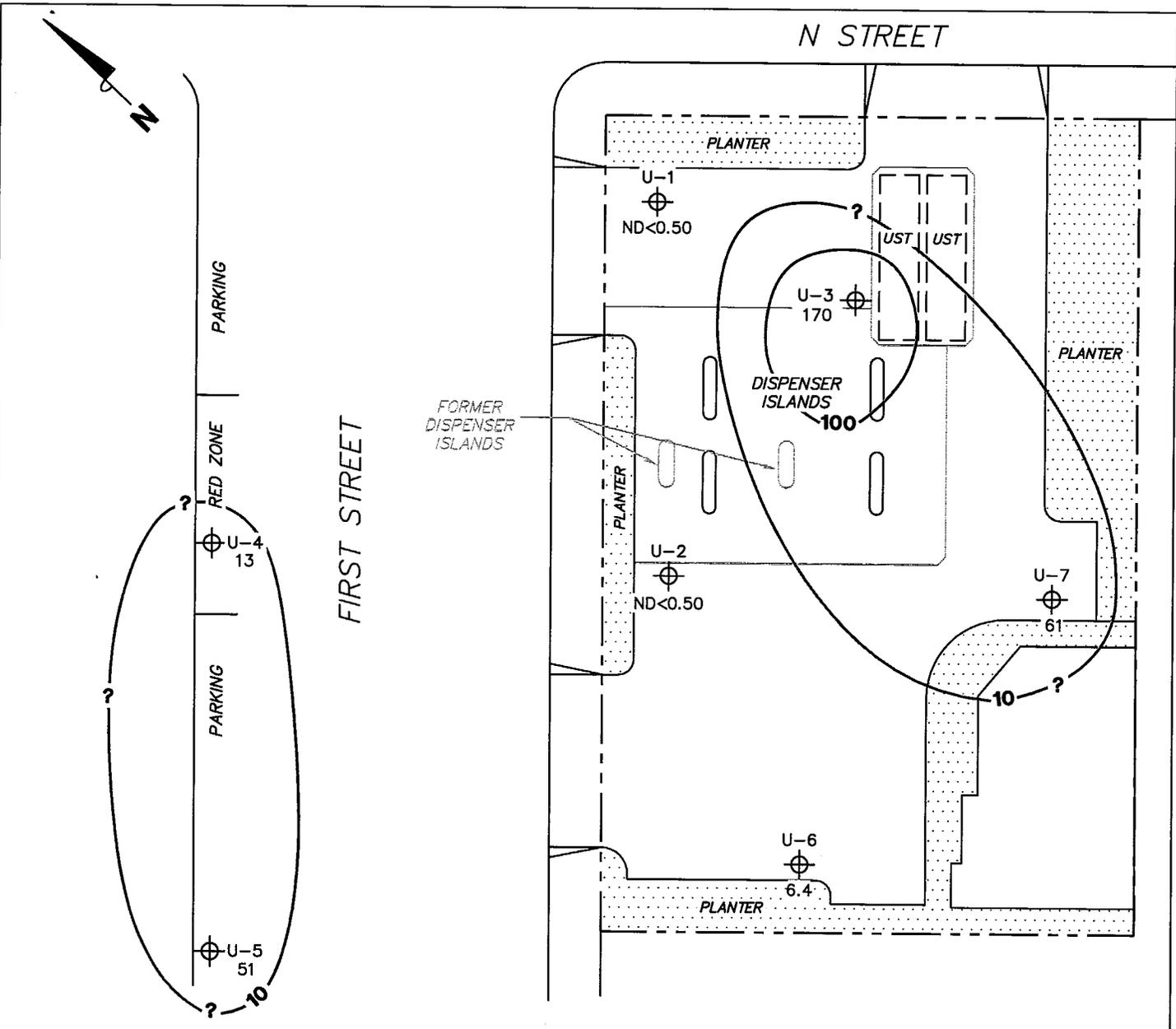


FIGURE 4

PS=1:1 4186-003 \\IRVINE-FSI\Graphics\Projects\Number\20-xxxx\20-0400(UnocalQMS)\x-4000\4186+\4186QMS.DWG Oct 11, 2006 - 1:19pm bschmidt



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.
 MTBE results obtained using EPA Method 8260B.

LEGEND

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

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

**DISSOLVED PHASE MTBE CONCENTRATION MAP
 September 26, 2006**

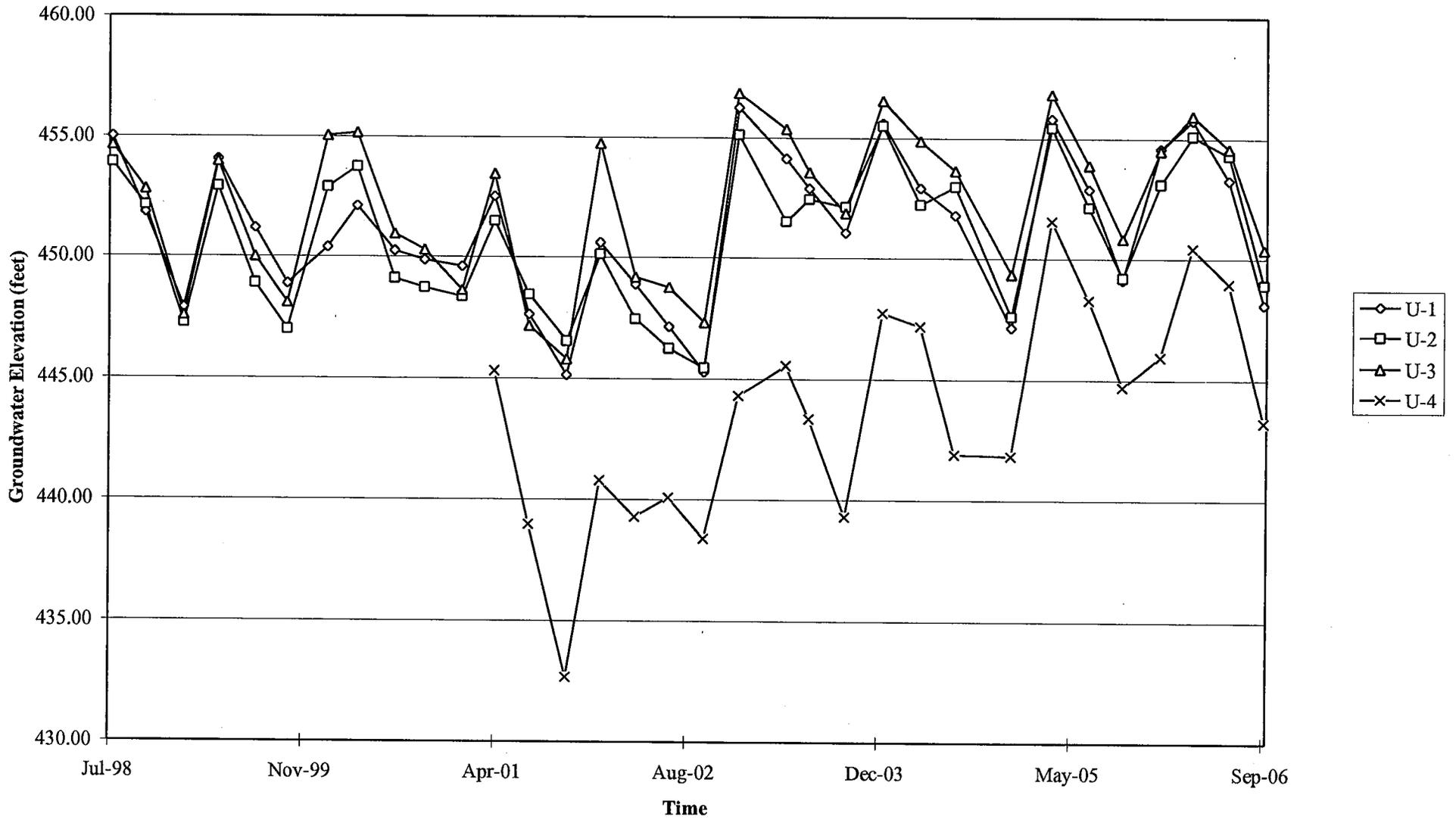
76 Station 4186
 1771 First Street
 Livermore, California



FIGURE 5

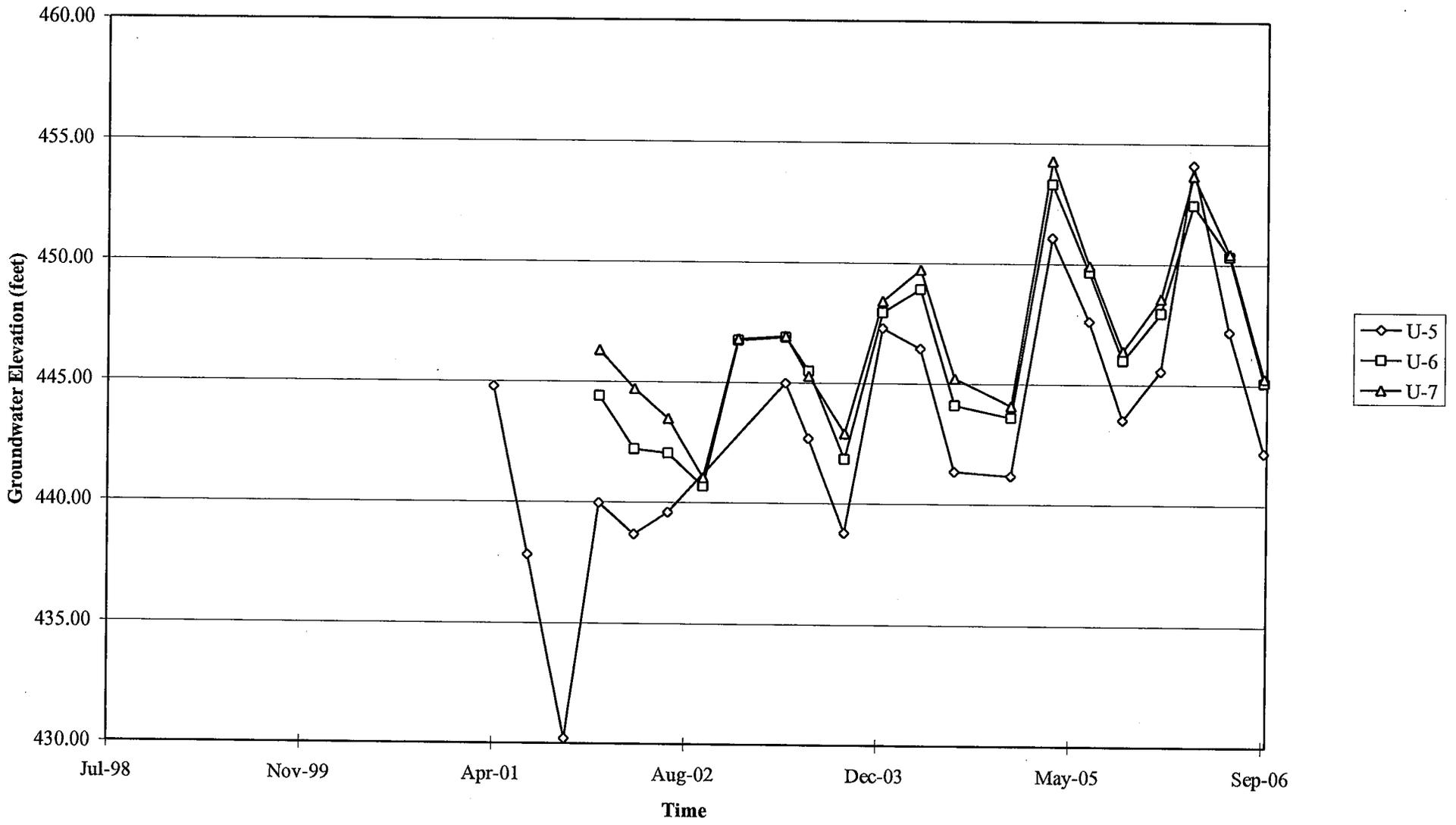
GRAPHS

Groundwater Elevations vs. Time
76 Station 4186



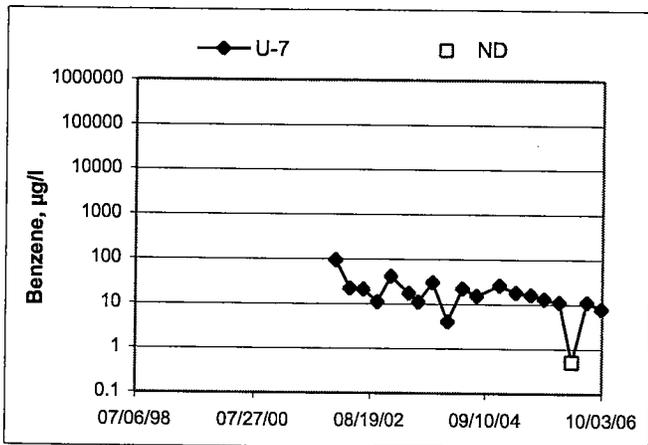
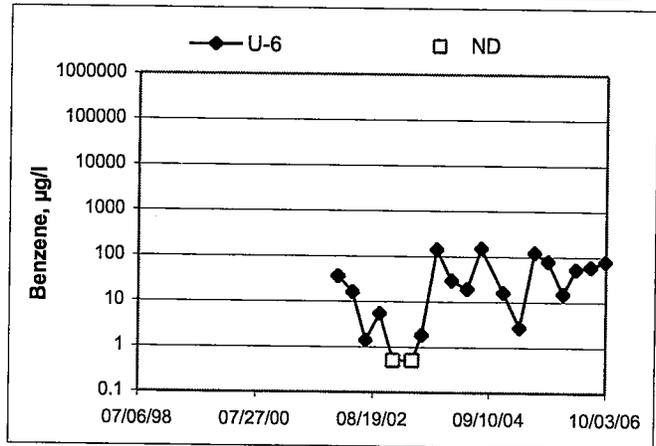
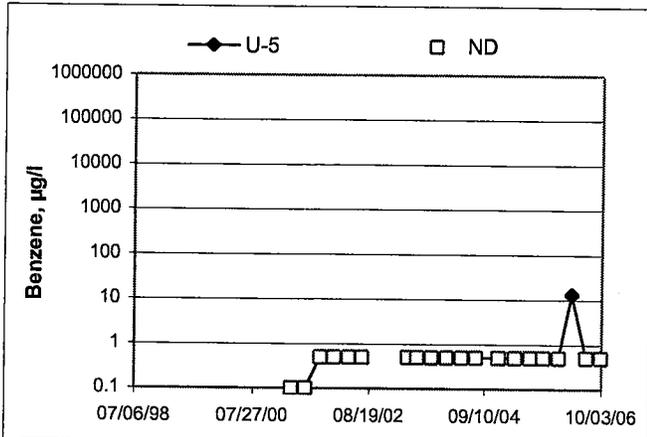
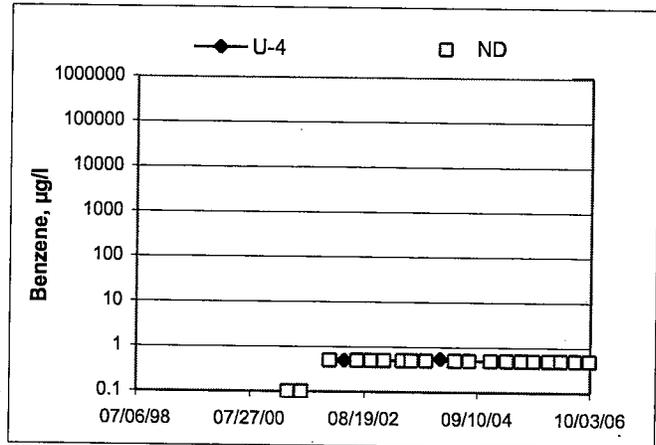
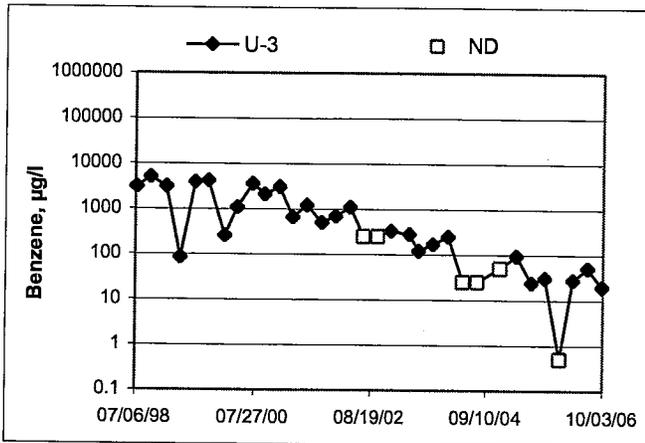
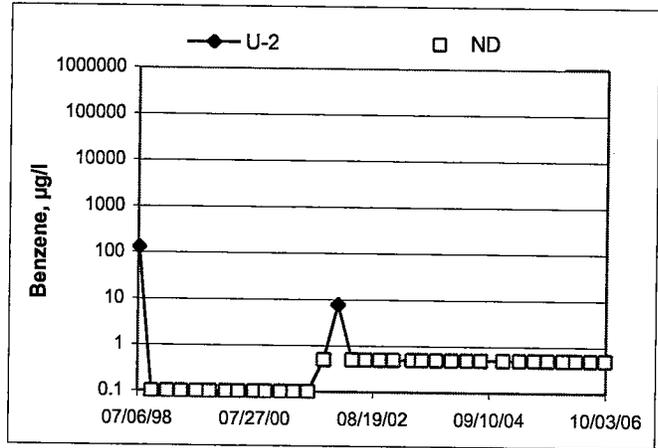
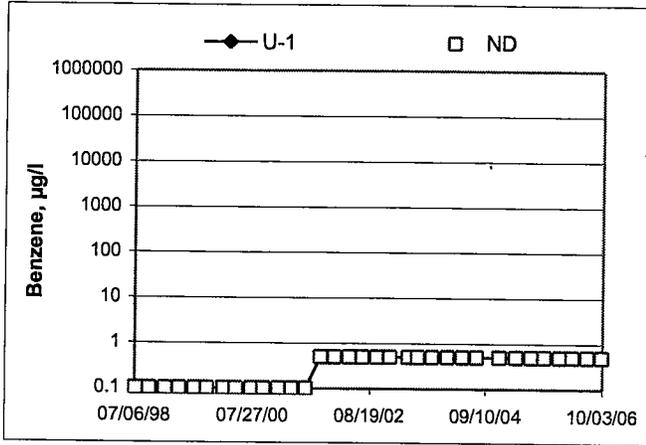
Elevations may have been corrected for apparent changes due to resurvey

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.

GROUNDWATER SAMPLING FIELD NOTES

Technician: Rick R.

Site: 4186

Project No.: 41060001

Date: 9/26/06

Well No. U-1

Purge Method: HB

Depth to Water (feet): 30.19

Depth to Product (feet): 0

Total Depth (feet): 33.73

LPH & Water Recovered (gallons): 0

Water Column (feet): 3.54

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 30.90

1 Well Volume (gallons): 0.5

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F. °C)	pH	D.O.	ORP	Turbidity
0713			0.5	1572	18.4	6.93	4.66	203	
			1.0	1474	19.7	7.20	4.04	198	
	0718		1.5	1473	20.1	7.29	4.24	200	
Static at Time Sampled			Total Gallons Purged		Sample Time				
31.79			1.5		0918				
Comments: <u>DRY @ 1.5 GALS. WAS GOING TO ATTEMPT FOURTH READING TO ACHIEVE 10% ON D.O. WELL DID NOT RECOVER IN 2 HRS.</u>									

Well No. U-3

Purge Method: HB

Depth to Water (feet): 28.08

Depth to Product (feet): 0

Total Depth (feet): 33.43

LPH & Water Recovered (gallons): 0

Water Column (feet): 5.35

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 29.15

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
0724			1	1119	18.8	6.91	1.10	-72	
			2	1101	19.5	6.91	1.05	-81	
	0731		3	1119	20.0	6.87	1.06	-95	
Static at Time Sampled			Total Gallons Purged		Sample Time				
30.27			3		0931				
Comments: <u>WELL DID NOT RECOVER IN 2 HRS.</u>									

GROUNDWATER SAMPLING FIELD NOTES

Technician: Rick R.

Site: 4186

Project No.: 41060001

Date: 9/26/06

Well No. U-2

Purge Method: HB

Depth to Water (feet): 28.52

Depth to Product (feet): 0

Total Depth (feet): 33.12

LPH & Water Recovered (gallons): 0

Water Column (feet): 4.60

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 29.44

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
0741			1	1001	19.4	7.35	3.49	-31	
			2	1000	19.4	7.34	3.83	-20	
	0748		3	1001	18.5	7.34	3.70	-17	
Static at Time Sampled		Total Gallons Purged		Sample Time					
30.44		3		0948					
Comments: <u>WELL DID NOT RECOVER IN 2 HRS.</u>									

Well No. U-7

Purge Method: Sub

Depth to Water (feet): 33.47

Depth to Product (feet): 0

Total Depth (feet): 44.40

LPH & Water Recovered (gallons): 0

Water Column (feet): 10.93

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 35.66

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
0804			2	1150	16.6	7.18	1.02	-47	
			4	1252	18.2	7.17	0.91	-59	
	0809		6	1249	18.7	7.20	0.78	-63	
Static at Time Sampled		Total Gallons Purged		Sample Time					
36.44		6		1009					
Comments: <u>WELL DID NOT RECOVER IN 2 HRS.</u>									

GROUNDWATER SAMPLING FIELD NOTES

Technician: Rick R.

Site: 4186

Project No.: 41060001

Date: 9/26/06

Well No. U-6

Purge Method: Sub

Depth to Water (feet): 33.31

Depth to Product (feet): 0

Total Depth (feet): 44.55

LPH & Water Recovered (gallons): 0

Water Column (feet): 11.24

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 35.56

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
0818			2	1333	18.3	7.05	1.07	-67	
			4	1321	19.1	7.00	1.17	-64	
	0823		6	1365	19.5	6.97	0.83	-69	
Static at Time Sampled			Total Gallons Purged		Sample Time				
35.23			6		0938				
Comments:									

Well No. U-4

Purge Method: Sub

Depth to Water (feet): 33.72

Depth to Product (feet): 0

Total Depth (feet): 44.93

LPH & Water Recovered (gallons): 0

Water Column (feet): 11.21

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 35.96

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
0832			2	1001	19.1	7.30	1.23	-54	
			4	997.5	20.1	7.31	1.70	-24	
			6	1003	20.6	7.29	1.45	-15	
	0839		8	998.9	20.8	7.29	1.38	-7	
Static at Time Sampled			Total Gallons Purged		Sample Time				
35.55			8		1025				
Comments:									

GROUNDWATER SAMPLING FIELD NOTES

Technician: Rick R.

Site: 4186

Project No.: 41060001

Date: 9/26/06

Well No. U-5

Purge Method: Sub

Depth to Water (feet): 34.35

Depth to Product (feet): 0

Total Depth (feet): 47.07

LPH & Water Recovered (gallons): 0

Water Column (feet): 12.72

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 36.89

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
0848			2	948.6	20.4	7.25	0.80	44	
			4	844.5	20.8	7.23	1.10	45	
	0855		6	973.7	21.2	7.25	1.19	44	
Static at Time Sampled			Total Gallons Purged		Sample Time				
36.82			6		1050				
Comments: <u>DRY @ 6 GALS. Attempted Fourth reading.</u>									

Well No. _____

Purge Method: _____

Depth to Water (feet): _____

Depth to Product (feet): _____

Total Depth (feet): _____

LPH & Water Recovered (gallons): _____

Water Column (feet): _____

Casing Diameter (Inches): _____

80% Recharge Depth(feet): _____

1 Well Volume (gallons): _____

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

Date of Report: 10/06/2006

Anju Farfan

TRC Alton Geoscience

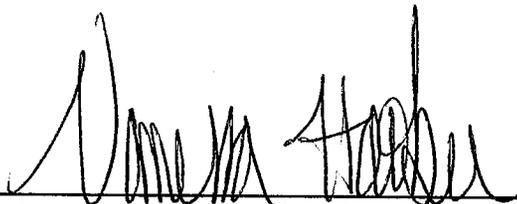
21 Technology Drive
Irvine, CA 92618-2302

RE: 4186

BC Lab Number: 0609989

Enclosed are the results of analyses for samples received by the laboratory on 09/26/06 21:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Contact Person: Vanessa Hooker

Client Service Rep



Authorized Signature

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

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

Reported: 10/06/06 11:00

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

0609989-01	COC Number: --- Project Number: 4186 Sampling Location: U-1 Sampling Point: U-1 Sampled By: Rick R. of TRCI	Receive Date: 09/26/06 21:50 Sampling Date: 09/26/06 09:18 Sample Depth: --- Sample Matrix: Water	Delivery Work Order: Global ID: T0600101777 Matrix: W Sample QC Type (SACode): CS Cooler ID:
0609989-02	COC Number: --- Project Number: 4186 Sampling Location: U-2 Sampling Point: U-2 Sampled By: Rick R. of TRCI	Receive Date: 09/26/06 21:50 Sampling Date: 09/26/06 09:48 Sample Depth: --- Sample Matrix: Water	Delivery Work Order: Global ID: T0600101777 Matrix: W Sample QC Type (SACode): CS Cooler ID:
0609989-03	COC Number: --- Project Number: 4186 Sampling Location: U-3 Sampling Point: U-3 Sampled By: Rick R. of TRCI	Receive Date: 09/26/06 21:50 Sampling Date: 09/26/06 09:31 Sample Depth: --- Sample Matrix: Water	Delivery Work Order: Global ID: T0600101777 Matrix: W Sample QC Type (SACode): CS Cooler ID:
0609989-04	COC Number: --- Project Number: 4186 Sampling Location: U-4 Sampling Point: U-4 Sampled By: Rick R. of TRCI	Receive Date: 09/26/06 21:50 Sampling Date: 09/26/06 10:25 Sample Depth: --- Sample Matrix: Water	Delivery Work Order: Global ID: T0600101777 Matrix: W Sample QC Type (SACode): CS Cooler ID:
0609989-05	COC Number: --- Project Number: 4186 Sampling Location: U-5 Sampling Point: U-5 Sampled By: Rick R. of TRCI	Receive Date: 09/26/06 21:50 Sampling Date: 09/26/06 10:50 Sample Depth: --- Sample Matrix: Water	Delivery Work Order: Global ID: T0600101777 Matrix: W Sample QC Type (SACode): CS Cooler ID:

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

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

Reported: 10/06/06 11:00

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
0609989-06	COC Number: --- Project Number: 4186 Sampling Location: U-6 Sampling Point: U-6 Sampled By: Rick R. of TRCI	Receive Date: 09/26/06 21:50 Sampling Date: 09/26/06 09:38 Sample Depth: --- Sample Matrix: Water	Delivery Work Order: Global ID: T0600101777 Matrix: W Sample QC Type (SACode): CS Cooler ID:
0609989-07	COC Number: --- Project Number: 4186 Sampling Location: U-7 Sampling Point: U-7 Sampled By: Rick R. of TRCI	Receive Date: 09/26/06 21:50 Sampling Date: 09/26/06 10:09 Sample Depth: --- Sample Matrix: Water	Delivery Work Order: Global ID: T0600101777 Matrix: W Sample QC Type (SACode): CS Cooler ID:

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

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

Reported: 10/06/06 11:00

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0609989-01 | **Client Sample Name:** 4186, U-1, U-1, 9/26/2006 9:18:00AM, Rick R.

Constituent	Result	Units	PQL	MDL	Method	Prep	Run	Analyst	Instru- ment ID	Dilution	QC	MB	Lab
						Date	Date/Time				Batch ID	Bias	Quals
Benzene	ND	ug/L	0.50		EPA-8260	10/02/06	10/03/06 01:02	SDU	MS-V10	1	BPJ0136	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	10/02/06	10/03/06 01:02	SDU	MS-V10	1	BPJ0136	ND	
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	10/02/06	10/03/06 01:02	SDU	MS-V10	1	BPJ0136	ND	
Toluene	ND	ug/L	0.50		EPA-8260	10/02/06	10/03/06 01:02	SDU	MS-V10	1	BPJ0136	ND	
Total Xylenes	ND	ug/L	0.50		EPA-8260	10/02/06	10/03/06 01:02	SDU	MS-V10	1	BPJ0136	ND	
Ethanol	ND	ug/L	250		EPA-8260	10/02/06	10/03/06 01:02	SDU	MS-V10	1	BPJ0136	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	10/02/06	10/03/06 01:02	SDU	MS-V10	1	BPJ0136	ND	
1,2-Dichloroethane-d4 (Surrogate)	101	%	76 - 114 (LCL - UCL)		EPA-8260	10/02/06	10/03/06 01:02	SDU	MS-V10	1	BPJ0136		
Toluene-d8 (Surrogate)	98.1	%	88 - 110 (LCL - UCL)		EPA-8260	10/02/06	10/03/06 01:02	SDU	MS-V10	1	BPJ0136		
4-Bromofluorobenzene (Surrogate)	99.5	%	86 - 115 (LCL - UCL)		EPA-8260	10/02/06	10/03/06 01:02	SDU	MS-V10	1	BPJ0136		

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

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

Reported: 10/06/06 11:00

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0609989-02		Client Sample Name: 4186, U-2, U-2, 9/26/2006 9:48:00AM, Rick R.											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	10/02/06	10/03/06 01:27	SDU	MS-V10	1	BPJ0136	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	10/02/06	10/03/06 01:27	SDU	MS-V10	1	BPJ0136	ND	
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	10/02/06	10/03/06 01:27	SDU	MS-V10	1	BPJ0136	ND	
Toluene	ND	ug/L	0.50		EPA-8260	10/02/06	10/03/06 01:27	SDU	MS-V10	1	BPJ0136	ND	
Total Xylenes	ND	ug/L	0.50		EPA-8260	10/02/06	10/03/06 01:27	SDU	MS-V10	1	BPJ0136	ND	
Ethanol	ND	ug/L	250		EPA-8260	10/02/06	10/03/06 01:27	SDU	MS-V10	1	BPJ0136	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	10/02/06	10/03/06 01:27	SDU	MS-V10	1	BPJ0136	ND	
1,2-Dichloroethane-d4 (Surrogate)	104	%	76 - 114 (LCL - UCL)		EPA-8260	10/02/06	10/03/06 01:27	SDU	MS-V10	1	BPJ0136		
Toluene-d8 (Surrogate)	99.0	%	88 - 110 (LCL - UCL)		EPA-8260	10/02/06	10/03/06 01:27	SDU	MS-V10	1	BPJ0136		
4-Bromofluorobenzene (Surrogate)	101	%	86 - 115 (LCL - UCL)		EPA-8260	10/02/06	10/03/06 01:27	SDU	MS-V10	1	BPJ0136		

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

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

Reported: 10/06/06 11:00

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0609989-03 | **Client Sample Name:** 4186, U-3, U-3, 9/26/2006 9:31:00AM, Rick R.

Constituent	Result	Units	PQL	MDL	Method	Prep	Run	Analyst	Instru- ment ID	Dilution	QC	MB	Lab
						Date	Date/Time				Batch ID	Bias	Quals
Benzene	20	ug/L	2.5		EPA-8260	10/02/06	10/03/06 14:35	SDU	MS-V10	5	BPJ0136	ND	A01
Ethylbenzene	5.2	ug/L	2.5		EPA-8260	10/02/06	10/03/06 14:35	SDU	MS-V10	5	BPJ0136	ND	A01
Methyl t-butyl ether	170	ug/L	2.5		EPA-8260	10/02/06	10/03/06 14:35	SDU	MS-V10	5	BPJ0136	ND	A01
Toluene	ND	ug/L	2.5		EPA-8260	10/02/06	10/03/06 14:35	SDU	MS-V10	5	BPJ0136	ND	A01
Total Xylenes	2.8	ug/L	2.5		EPA-8260	10/02/06	10/03/06 14:35	SDU	MS-V10	5	BPJ0136	ND	A01
Ethanol	ND	ug/L	1200		EPA-8260	10/02/06	10/03/06 14:35	SDU	MS-V10	5	BPJ0136	ND	A01
Total Purgeable Petroleum Hydrocarbons	1200	ug/L	250		EPA-8260	10/02/06	10/03/06 14:35	SDU	MS-V10	5	BPJ0136	ND	A01
1,2-Dichloroethane-d4 (Surrogate)	95.5	%	76 - 114 (LCL - UCL)		EPA-8260	10/02/06	10/03/06 14:35	SDU	MS-V10	5	BPJ0136		
Toluene-d8 (Surrogate)	96.1	%	88 - 110 (LCL - UCL)		EPA-8260	10/02/06	10/03/06 14:35	SDU	MS-V10	5	BPJ0136		
4-Bromofluorobenzene (Surrogate)	102	%	86 - 115 (LCL - UCL)		EPA-8260	10/02/06	10/03/06 14:35	SDU	MS-V10	5	BPJ0136		

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

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

Reported: 10/06/06 11:00

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0609989-04		Client Sample Name: 4186, U-4, U-4, 9/26/2006 10:25:00AM, Rick R.											
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	10/02/06	10/03/06 01:52	SDU	MS-V10	1	BPJ0136	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	10/02/06	10/03/06 01:52	SDU	MS-V10	1	BPJ0136	ND	
Methyl t-butyl ether	13	ug/L	0.50		EPA-8260	10/02/06	10/03/06 01:52	SDU	MS-V10	1	BPJ0136	ND	
Toluene	ND	ug/L	0.50		EPA-8260	10/02/06	10/03/06 01:52	SDU	MS-V10	1	BPJ0136	ND	
Total Xylenes	ND	ug/L	0.50		EPA-8260	10/02/06	10/03/06 01:52	SDU	MS-V10	1	BPJ0136	ND	
Ethanol	ND	ug/L	250		EPA-8260	10/02/06	10/03/06 01:52	SDU	MS-V10	1	BPJ0136	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	10/02/06	10/03/06 01:52	SDU	MS-V10	1	BPJ0136	ND	A53
1,2-Dichloroethane-d4 (Surrogate)	102	%	76 - 114 (LCL - UCL)		EPA-8260	10/02/06	10/03/06 01:52	SDU	MS-V10	1	BPJ0136		
Toluene-d8 (Surrogate)	96.2	%	88 - 110 (LCL - UCL)		EPA-8260	10/02/06	10/03/06 01:52	SDU	MS-V10	1	BPJ0136		
4-Bromofluorobenzene (Surrogate)	100	%	86 - 115 (LCL - UCL)		EPA-8260	10/02/06	10/03/06 01:52	SDU	MS-V10	1	BPJ0136		

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 21 Technology Drive
 Irvine CA, 92618-2302

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

Reported: 10/06/06 11:00

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0609989-05		Client Sample Name: 4186, U-5, U-5, 9/26/2006 10:50:00AM, Rick R.											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	10/02/06	10/03/06 02:17	SDU	MS-V10	1	BPJ0136	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	10/02/06	10/03/06 02:17	SDU	MS-V10	1	BPJ0136	ND	
Methyl t-butyl ether	51	ug/L	0.50		EPA-8260	10/02/06	10/03/06 02:17	SDU	MS-V10	1	BPJ0136	ND	
Toluene	ND	ug/L	0.50		EPA-8260	10/02/06	10/03/06 02:17	SDU	MS-V10	1	BPJ0136	ND	
Total Xylenes	ND	ug/L	0.50		EPA-8260	10/02/06	10/03/06 02:17	SDU	MS-V10	1	BPJ0136	ND	
Ethanol	ND	ug/L	250		EPA-8260	10/02/06	10/03/06 02:17	SDU	MS-V10	1	BPJ0136	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	10/02/06	10/03/06 02:17	SDU	MS-V10	1	BPJ0136	ND	A53
1,2-Dichloroethane-d4 (Surrogate)	99.1	%	76 - 114 (LCL - UCL)		EPA-8260	10/02/06	10/03/06 02:17	SDU	MS-V10	1	BPJ0136		
Toluene-d8 (Surrogate)	98.1	%	88 - 110 (LCL - UCL)		EPA-8260	10/02/06	10/03/06 02:17	SDU	MS-V10	1	BPJ0136		
4-Bromofluorobenzene (Surrogate)	99.5	%	86 - 115 (LCL - UCL)		EPA-8260	10/02/06	10/03/06 02:17	SDU	MS-V10	1	BPJ0136		

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

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

Reported: 10/06/06 11:00

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0609989-06		Client Sample Name: 4186, U-6, U-6, 9/26/2006 9:38:00AM, Rick R.											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	78	ug/L	5.0		EPA-8260	10/02/06	10/03/06 07:16	SDU	MS-V10	10	BPJ0136	ND	A01
Ethylbenzene	490	ug/L	5.0		EPA-8260	10/02/06	10/03/06 07:16	SDU	MS-V10	10	BPJ0136	ND	A01
Methyl t-butyl ether	6.4	ug/L	5.0		EPA-8260	10/02/06	10/03/06 07:16	SDU	MS-V10	10	BPJ0136	ND	A01
Toluene	ND	ug/L	5.0		EPA-8260	10/02/06	10/03/06 07:16	SDU	MS-V10	10	BPJ0136	ND	A01
Total Xylenes	160	ug/L	5.0		EPA-8260	10/02/06	10/03/06 07:16	SDU	MS-V10	10	BPJ0136	ND	A01
Ethanol	ND	ug/L	2500		EPA-8260	10/02/06	10/03/06 07:16	SDU	MS-V10	10	BPJ0136	ND	A01
Total Purgeable Petroleum Hydrocarbons	7400	ug/L	500		EPA-8260	10/02/06	10/03/06 07:16	SDU	MS-V10	10	BPJ0136	ND	A01
1,2-Dichloroethane-d4 (Surrogate)	96.8	%	76 - 114 (LCL - UCL)		EPA-8260	10/02/06	10/03/06 07:16	SDU	MS-V10	10	BPJ0136		
Toluene-d8 (Surrogate)	97.2	%	88 - 110 (LCL - UCL)		EPA-8260	10/02/06	10/03/06 07:16	SDU	MS-V10	10	BPJ0136		
4-Bromofluorobenzene (Surrogate)	101	%	86 - 115 (LCL - UCL)		EPA-8260	10/02/06	10/03/06 07:16	SDU	MS-V10	10	BPJ0136		

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

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

Reported: 10/06/06 11:00

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0609989-07	Client Sample Name: 4186, U-7, U-7, 9/26/2006 10:09:00AM, Rick R.												
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	7.8	ug/L	0.50		EPA-8260	10/02/06	10/03/06 02:42	SDU	MS-V10	1	BPJ0136	ND	
Ethylbenzene	17	ug/L	0.50		EPA-8260	10/02/06	10/03/06 02:42	SDU	MS-V10	1	BPJ0136	ND	
Methyl t-butyl ether	61	ug/L	0.50		EPA-8260	10/02/06	10/03/06 02:42	SDU	MS-V10	1	BPJ0136	ND	
Toluene	0.84	ug/L	0.50		EPA-8260	10/02/06	10/03/06 02:42	SDU	MS-V10	1	BPJ0136	ND	
Total Xylenes	2.1	ug/L	0.50		EPA-8260	10/02/06	10/03/06 02:42	SDU	MS-V10	1	BPJ0136	ND	
Ethanol	ND	ug/L	250		EPA-8260	10/02/06	10/03/06 02:42	SDU	MS-V10	1	BPJ0136	ND	
Total Purgeable Petroleum Hydrocarbons	2300	ug/L	50		EPA-8260	10/02/06	10/03/06 02:42	SDU	MS-V10	1	BPJ0136	ND	
1,2-Dichloroethane-d4 (Surrogate)	101	%	76 - 114 (LCL - UCL)		EPA-8260	10/02/06	10/03/06 02:42	SDU	MS-V10	1	BPJ0136		
Toluene-d8 (Surrogate)	101	%	88 - 110 (LCL - UCL)		EPA-8260	10/02/06	10/03/06 02:42	SDU	MS-V10	1	BPJ0136		
4-Bromofluorobenzene (Surrogate)	103	%	86 - 115 (LCL - UCL)		EPA-8260	10/02/06	10/03/06 02:42	SDU	MS-V10	1	BPJ0136		

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

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

Reported: 10/06/06 11:00

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	Control Limits		Lab Quals
									Percent Recovery	Percent Recovery	
Benzene	BPJ0136	Matrix Spike	0609975-03	ND	22.720	25.000	ug/L		90.9		70 - 130
		Matrix Spike Duplicate	0609975-03	ND	24.590	25.000	ug/L	7.92	98.4	20	70 - 130
Toluene	BPJ0136	Matrix Spike	0609975-03	ND	21.460	25.000	ug/L		85.8		70 - 130
		Matrix Spike Duplicate	0609975-03	ND	24.010	25.000	ug/L	11.2	96.0	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	BPJ0136	Matrix Spike	0609975-03	ND	9.8700	10.000	ug/L		98.7		76 - 114
		Matrix Spike Duplicate	0609975-03	ND	9.9800	10.000	ug/L		99.8		76 - 114
Toluene-d8 (Surrogate)	BPJ0136	Matrix Spike	0609975-03	ND	9.8600	10.000	ug/L		98.6		88 - 110
		Matrix Spike Duplicate	0609975-03	ND	9.8300	10.000	ug/L		98.3		88 - 110
4-Bromofluorobenzene (Surrogate)	BPJ0136	Matrix Spike	0609975-03	ND	10.090	10.000	ug/L		101		86 - 115
		Matrix Spike Duplicate	0609975-03	ND	9.9200	10.000	ug/L		99.2		86 - 115

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

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

Reported: 10/06/06 11:00

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		Lab Quals
										Percent Recovery	RPD	
Benzene	BPJ0136	BPJ0136-BS1	LCS	22.590	25.000	0.50	ug/L	90.4		70 - 130		
Toluene	BPJ0136	BPJ0136-BS1	LCS	22.460	25.000	0.50	ug/L	89.8		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BPJ0136	BPJ0136-BS1	LCS	10.010	10.000		ug/L	100		76 - 114		
Toluene-d8 (Surrogate)	BPJ0136	BPJ0136-BS1	LCS	9.8400	10.000		ug/L	98.4		88 - 110		
4-Bromofluorobenzene (Surrogate)	BPJ0136	BPJ0136-BS1	LCS	10.360	10.000		ug/L	104		86 - 115		

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

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

Reported: 10/06/06 11:00

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	BPJ0136	BPJ0136-BLK1	ND	ug/L	0.50	0.14	
Ethylbenzene	BPJ0136	BPJ0136-BLK1	ND	ug/L	0.50	0.094	
Methyl t-butyl ether	BPJ0136	BPJ0136-BLK1	ND	ug/L	0.50	0.13	
Toluene	BPJ0136	BPJ0136-BLK1	ND	ug/L	0.50	0.12	
Total Xylenes	BPJ0136	BPJ0136-BLK1	ND	ug/L	0.50	0.31	
Ethanol	BPJ0136	BPJ0136-BLK1	ND	ug/L	250	85	
Total Purgeable Petroleum Hydrocarbons	BPJ0136	BPJ0136-BLK1	ND	ug/L	50	16	
1,2-Dichloroethane-d4 (Surrogate)	BPJ0136	BPJ0136-BLK1	98.0	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BPJ0136	BPJ0136-BLK1	97.8	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BPJ0136	BPJ0136-BLK1	102	%	86 - 115 (LCL - UCL)		

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

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

Reported: 10/06/06 11:00

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

Submission #: 06-09989

Project Code:

TB Batch #

SHIPPING INFORMATION

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

SHIPPING CONTAINER

Ice Chest None
 Box Other (Specify)

Refrigerant: Ice Blue Ice None Other Comments:

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

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

COC Received
 YES NO

Ice Chest ID Blw
 Temperature: 3.7 °C
 Thermometer ID: #48

Emissivity 0.95
 Container VOC

Date/Time 9/26/06
 Analyst Init OTO

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										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	<u>A3</u>	<u>A3</u>	<u>A3</u>	<u>A3</u>	<u>A3</u>	<u>A3</u>	<u>A3</u>			
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 OA/QC										
QT AMBER										
3 OZ. JAR										
12 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
INCORE										

CHK BY	DISTRIBUTION
<i>AMC</i>	<i>DK</i>
	SUB-OUT <input type="checkbox"/>

BC LABORATORIES, INC.

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

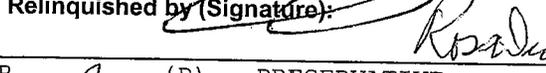
CHAIN OF CUSTODY

06-09989

Analysis Requested

Circle one: Phillips 66 / Unocal		Consultant Firm: TRC		MATRIX (GW) Ground-water (S) Soil (WW) Waste-water (SL) Sludge	BTEX/MTBE by 8021B, Gas by 8015	TPH GAS by 8015M	TPH DIESEL by 8015	8260 full list w/ MTBE & oxygenates	BTEX/MTBE BY 8260B	ETHANOL by 8260B	TPH-g by GC/MS	EDB/EDC by 8260B	Turnaround Time Requested
Address: 1771 First St.		21 Technology Drive Irvine, CA 92618-2302 Attn: Anju Farfan											
City: Livermore		4-digit site#: 4186											
State: CA Zip:		Work Order# 1237TRC502											
COP Manager: Shelby Lathrop		Project #: 41060001/FA20											
		Sampler Name: <i>Dick R.</i>											

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 BY 8260B	ETHANOL by 8260B	TPH-g by GC/MS	EDB/EDC by 8260B	Turnaround Time Requested
	-1	U-1	<i>9/26/06 - 0918</i>	GW					X	X	X		STD
	-2	U-2	<i>0948</i>	GW					X	X	X		STD
	-3	U-3	<i>0931</i>	GW					X	X	X		STD
	-4	U-4	<i>1025</i>	GW					X	X	X		STD
	-5	U-5	<i>1050</i>	GW					X	X	X		STD
	-6	U-6	<i>0938</i>	GW					X	X	X		STD
	-7	U-7	<i>1009</i>	GW					X	X	X		STD

Comments: Run 8 OXYs by 8260B on any 8260 MTBE hit on U-3 only. Global ID: T0600101777	Relinquished by: 	Received by: <i>Refrigerated</i>	Date & Time: <i>9/26/06 - 1145</i>
	Relinquished by (Signature): 	Received by: <i>Roadichey</i>	Date & Time: <i>9/26/06 1408</i>
	Relinquished by (Signature): 	Received by: <i>Amacato</i>	Date & Time: <i>9/26/06 1820</i>

(A) = ANALYSIS

(C) = CONTAINER

(P) = PRESERVATIVE

Rel: Amacato 9/26/06 2150 Teri Oberferi 9/26/06 2150

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.

October 20, 2006

30 Hughes, Suite 209
Irvine, California 92618
tel 949.581.3222
fax 949.581.3207

Mr. Daniel Davis, R.G.
Senior Project Manager
Delta Environmental Consultants, Inc.
3164 Gold Camp Road - Suite 200
Rancho Cordova, CA 95670

Project No. 328-A

Third Quarter 2006
Ozone Injection System O&M Report
76 Service Station No. 4186
1771 First Street
Livermore, California

Dear Mr. Davis:

Environ Strategy Consultants, Inc. is pleased to submit this ozone injection system operation and maintenance (O&M) report for 76 Service Station No. 4186, located at 1771 First Street, Livermore, California. An ozone injection system was started on June 19, 2003 to remediate hydrocarbon-impacted groundwater.

Type of Remediation System:	Ozone Injection System
Operation Data During: Reporting Period: Jul. 1, 2006 – Sep. 30, 2006	Operated 84 days during the period Hours of Operation: 384
System Operation Data Since Startup: June 19, 2003	Total Hours of Operation: 6,480
<p>Note:</p> <p>System down time occurred during the third quarter of 2006 due to tripped ozone sensor.</p>	

Environ Strategy appreciates the opportunity to be of service. If you have any questions or require additional information regarding this report, please do not hesitate to call us at (949) 581-3222.

Respectfully submitted,


Sonny Nguyen
Project Assistant


Jinghui Niu, P.E.
Principal Engineer



Third Quarter 2006 O&M Report

76 Service Station No. 4186

October 20, 2006

Page 2

Attachments: Figure - Site Plan

Table 1 - Ozone Injection - System Operation Data

Table 2 - Ozone Injection - Groundwater Monitoring Data

Graph 1 - U-3 TPHg, Benzene, and MtBE Groundwater Concentrations

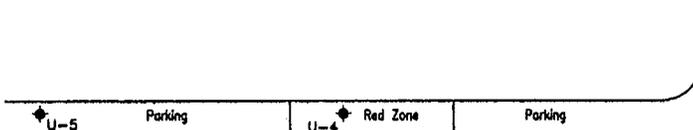
Graph 2 - U-6 TPHg, Benzene, and MtBE Groundwater Concentrations

Appendix A - Field Notes

Appendix B - Laboratory Analytical Reports

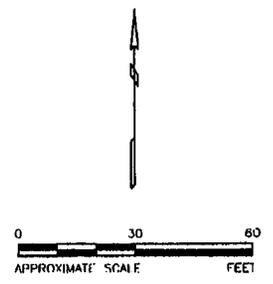
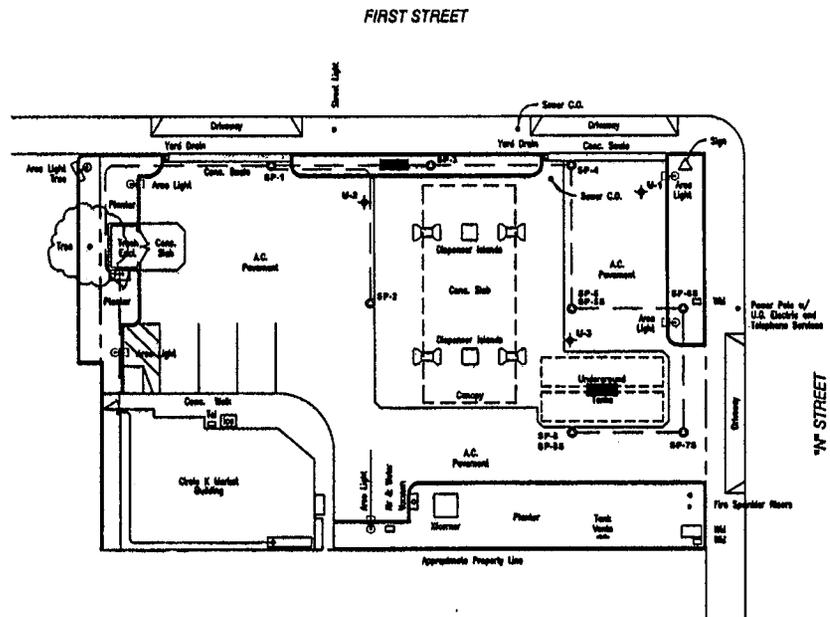
cc: Shelby Lathrop, ConocoPhillips Company (electronic copy)

Figure



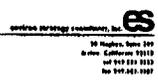
LEGEND

- ⊕ GROUNDWATER MONITORING WELL
- ⊙ OZONE SPARGE POINT
- UNDERGROUND OZONE SPARGE LINE



REFERENCE: THIS FIGURE IS BASED ON A 'SITE PLAN' PROVIDED BY GETTLER-RYAN INC., DATED JULY 2001, AND IS INTENDED FOR ILLUSTRATION ONLY.

DRAWN BY: DWR
 CHECKED: AD
 APPROVED: AD
 DATE: 4/2/04
 JOB NO.: 77CF 80004_01.4188
 CAD FILE: CP-SITEPLAN...



PREPARED FOR:
CONOCOPHILLIPS
 STATION NO. 4188
 1771 FIRST STREET
 LIVERMORE, CALIFORNIA

FIGURE 1
 SITE PLAN

Tables

Table 1
 Ozone Injection - System Operation Data
 76 Service Station No. 4186
 1771 First Street, Livermore, California

Date	Notes	OZONE SPARGE SYSTEM														
		System Status on Arrival (On/Off)	System Status on Departure (On/Off)	Hourmeter Reading	Cumulative Operating Hours	Periodic Online Factor	Cumulative Online Factor	OZ-1 Pressure (psf)	OZ-2 Pressure (psf)	OZ-3 Pressure (psf)	OZ-4 Pressure (psf)	OZ-5 Pressure (psf)	OZ-6 Pressure (psf)	OZ-7 Pressure (psf)	OZ-8 Pressure (psf)	OZ-9 Pressure (psf)
08/19/03		On	On	6987.82	0.00	--	--	30	24	22	28	30	30	32	35	28
07/30/03		On	On	NM	0.00	--	--	40	35	42	38	36	36	20	28	46
08/28/03		Off	On	7127.87	129.95	0.09	0.09	36	48	22	42	37	33	40	50	35
09/19/03		On	On	7131.66	133.74	0.01	0.07	35.2	38.1	23.7	38.0	34.9	31.1	34.5	38.0	32.2
10/16/03		On	On	7146.67	148.66	0.03	0.06	35.0	40.0	24.2	38.2	18.5	31.4	35.1	38.0	34.5
11/18/03		On	On	7152.34	164.42	0.01	0.05	37.0	36.5	26.0	35.0	16.0	33.0	38.0	18.0	62.0
12/03/03		Off	On	7153.15	165.23	0.00	0.04	38.0	38.2	26.5	39.2	40.9	33.8	38.1	40.0	48.2
01/16/04		Off	On	7499.58	501.66	0.37	0.11	44.0	48.0	27.5	48.0	38.0	37.0	--	43.0	40.0
02/09/04	a	Off	On	7541.66	543.74	0.10	0.11	40.0	38.5	26.5	38.5	38.0	37.0	38.2	40.0	35.8
02/17/04		Off	On	7542.14	544.22	0.00	0.16	38.0	38.5	27.5	42.0	38.0	38.0	38.7	41.5	60.0
03/24/04	b	Off	On	7837.07	839.15	0.52	0.16	42.0	38.2	27.5	42.0	38.0	38.0	--	--	--
04/07/04		Off	On	8008.40	1010.48	0.24	0.17	40.8	38.3	27.2	41.2	37.8	37.0	37.1	40.4	60.0
04/09/04		On	On	8047.55	1045.81	0.63	0.17	--	--	--	--	--	--	--	--	--
04/14/04		On	On	8053.53	1065.61	0.09	0.17	40.8	38.3	27.2	41.2	37.8	37.0	37.1	40.4	60.0
04/18/04		On	On	8088.36	1085.44	0.83	0.17	--	--	--	--	--	--	--	--	--
04/20/04		On	On	8187.64	1169.72	0.84	0.18	--	--	--	--	--	--	--	--	--
04/23/04	c	Off	On	8187.76	1189.66	0.01	0.18	38.6	35.9	27.2	41.2	37.6	36.1	37.1	40.7	60.0
04/23/04		On	On	8204.66	1208.76	0.88	0.19	37.9	34.0	26.1	34.8	35.2	35.2	36.3	25.8	60.0
04/23/04		On	On	8263.45	1255.53	0.13	0.18	40.8	45.3	27.0	40.2	24.8	38.2	25.0	23.0	66.3
05/13/04	b	Off	On	8281.64	1283.72	0.91	0.19	--	--	--	--	--	--	--	--	--
05/13/04		On	On	8441.19	1443.27	0.89	0.20	37.7	35.2	27.5	35.0	25.2	34.9	24.8	23.0	35.8
05/21/04	b	Off	On	8505.37	1507.45	0.12	0.20	41.2	41.5	27.8	43.0	24.8	37.2	25.8	24.5	60.0
05/26/04	b,d	Off	On	8564.82	1554.80	0.13	0.19	40	44	27	40	24	36	24	24	36
07/08/04	b,d	Off	On	8624.80	1604.29	0.78	0.24	40	40	28	44	23	36	26	24	36
08/09/04	b,e	Off	On	9022.21	2004.29	0.01	0.22	36	36	29	43	24	35	25	24	34
08/23/04	b,d,e	Off	On	9012.63	2014.71	0.01	0.22	36	36	29	43	24	35	25	24	34
04/29/05	b,j	Off	On	9184.90	2166.98	0.31	0.23	30	30	21	34	18	28	19	18	28
10/22/04	b,d,e	Off	On	9165.08	2167.16	0.00	0.22	30	30	20	31	18	28	19	18	28
11/05/04	f	Off	On	9185.08	2167.16	0.00	0.21	--	--	--	--	--	--	--	--	--
12/02/04	g	Off	On	9165.15	2167.23	0.00	0.19	--	--	--	--	--	--	--	--	--
01/10/05	h	Off	On	9165.28	2167.34	0.00	0.18	41	44	27	45	23	38	24	22	36
02/28/05	l,d	Off	On	9171.71	2173.79	0.01	0.17	42	46	27	46	22	39	24	22	36
03/29/05	b	Off	On	9171.71	2173.79	0.01	0.17	42	46	27	46	22	39	24	22	36
04/29/05	b,j	Off	On	9181.99	2184.07	0.04	0.16	41	44	28	44	22	39	23	21	34
05/13/05	k	Off	On	9226.71	2228.78	0.10	0.16	42	46	28	43	23	40	23	23	50
05/13/05	l	Off	On	8402.13	2404.21	0.30	0.17	41	40	28	42	23	30	24	23	50
06/06/05	l	Off	On	9828.79	2831.87	0.63	0.18	--	--	--	--	--	--	--	--	--
07/11/05	l	Off	On	9828.79	2831.87	0.00	0.18	--	--	--	--	--	--	--	--	--
08/08/05	l,m	Off	On	9830.17	2832.25	0.00	0.18	30	30	25	43	38	36	19	22	50
08/26/05	n,o	Off	On	9832.50	2834.58	0.01	0.18	31	27	28	43	38	36	19	22	50
09/13/05	p	Off	On	10340.21	3342.29	1.00	0.19	27	24	28	43	38	36	19	22	50
09/30/05		On	On	10435.63	3437.61	0.99	0.20	30	25	27	43	38	36	19	22	50
10/04/05		On	On	11085.70	4087.78	1.00	0.20	38	25	28	43	38	36	19	22	50
10/31/05	q	On	On	11089.15	4091.23	0.00	0.21	38	35	45	38	35	35	37	36	47
12/02/05	r	Off	On	11141.12	4143.20	0.15	0.21	35	32	37	37	33	38	37	36	46
01/16/05		On	On	11324.00	4328.08	0.42	0.22	36	35	37	38	35	38	38	39	39
01/30/05		On	On	11324.00	4328.08	0.42	0.22	36	35	37	38	35	38	38	39	39
01/17/05		On	On	11582.00	4584.08	0.80	0.22	36	38	40	38	36	37	42	42	40
01/17/05		On	On	11823.00	4925.08	0.89	0.24	37	32	39	37	36	37	42	42	40
01/31/05		On	On	12232.00	5334.08	0.76	0.25	37	35	37	38	34	36	38	38	38
02/17/05	s	Off	On	12328.00	5328.08	0.36	0.25	36	37	38	38	34	37	40	42	40
02/28/05	s	Off	On	12476.00	5478.08	0.45	0.25	36	36	37	38	34	35	36	38	40
03/14/05	s	Off	On	12543.00	5545.08	0.17	0.25	37	36	37	36	34	35	36	38	40
03/30/05	s	Off	On	12804.00	5806.08	0.19	0.25	35	35	37	37	35	32	37	35	36
04/13/05	s	Off	On	12716.00	5718.08	0.39	0.25	36	36	38	38	34	34	38	37	36
04/25/05	s	Off	On	12716.00	5718.08	0.39	0.25	36	36	38	38	34	34	38	37	36
05/17/05	s	Off	On	12833.00	5835.08	0.22	0.20	35	35	38	37	35	31	37	36	39
05/31/05	s	Off	On	12834.00	5836.08	0.30	0.23	38	36	37	36	33	33	38	37	40

Table 1
Ozone Injection - System Operation Data
 76 Service Station No. 4186
 1771 First Street, Livermore, California

Date	Notes	OZONE SPARGE SYSTEM						OZ-1	OZ-2	OZ-3	OZ-4	OZ-5	OZ-6	OZ-7	OZ-8	OZ-9	OZ-10
		System Status on Arrival (On/Off)	System Status on Departure (On/Off)	Hourmeter Reading	Cumulative Operating Hours	Periodic Online Factor	Cumulative Online Factor	Pressure (psi)									
06/13/06	s	Off	On	13013.00	6015.08	0.25	0.25	35	35	36	37	35	32	37	36	36	39
06/27/06	s	Off	On	13084.00	6096.08	0.24	0.25	36	36	37	37	36	33	38	37	37	40
07/11/06	s	Off	On	13124.00	6126.08	0.09	0.25	34	35	36	36	34	31	37	35	35	39
07/29/06	s	Off	On	13206.00	6208.08	0.19	0.25	35	36	37	37	35	33	37	36	36	39
08/08/06	s	Off	On	13254.00	6258.08	0.20	0.25	35	36	36	36	34	31	36	36	35	39
08/22/06	s	Off	On	13317.00	6319.08	0.19	0.24	36	35	38	37	35	32	38	35	37	40
08/05/06	s	Off	On	13416.00	6418.08	0.29	0.25	35	34	38	37	33	31	36	34	35	39
09/19/06	s	Off	On	13476.00	6480.08	0.18	0.24	38	36	37	35	35	33	38	37	37	41
Spurge time per cycle (min)								8	8	8	8	8	8	8	8	8	8
Reporting Period: Third Quarter 2006 (7-1-06 to 9-30-06) 18-Jan-01 Total Hours Operational: 6,480 Total Pounds Ozone Injected: 58 Period Hours Operational: 384 Period Percent Operational: 19% Period Pounds Ozone Injected: 3.5																	
Definitions: psi Pounds per square inch - Data not available NA Not applicable																	
Notes: System cycles program 18 times per day, for 100% utilization a = GFI switch would not reset. b = System's 16amp breaker was tripped c = Installing Generator d = OZ-9 offline due to high pressure e = OZ-2 offline due to leaking check valve f = System shutdown due to ozone sensor switch. g = System off due to leaking compressor, no readings. h = Compressor not in panel, being repaired / replaced. i = Reinstalled compressor after installing new piston rebuild kit & new check valve on line # 2. j = System runtime increased to 100% k = Lead to spurge blower was burnt, repaired and restarted. l = Compressor broken, system left off. m = Removed old compressor, unable to install new one due to incompatible feet. n = New compressor and new feet installed. o = OZ-5 and OZ-6 turned off due to leaks. Programmed modified to remain at 100% runtime. p = System down for Ozone alarm. Found ozone coming from secondary containment for OZ-4, turned off. Found broken line for OZ-7, turned off. q = OZ-8 turned off due to leak r = Reprogrammed all lines to run for 8 minutes a cycle and 100% runtime. s = Ozone sensor tripped; system restarted.																	

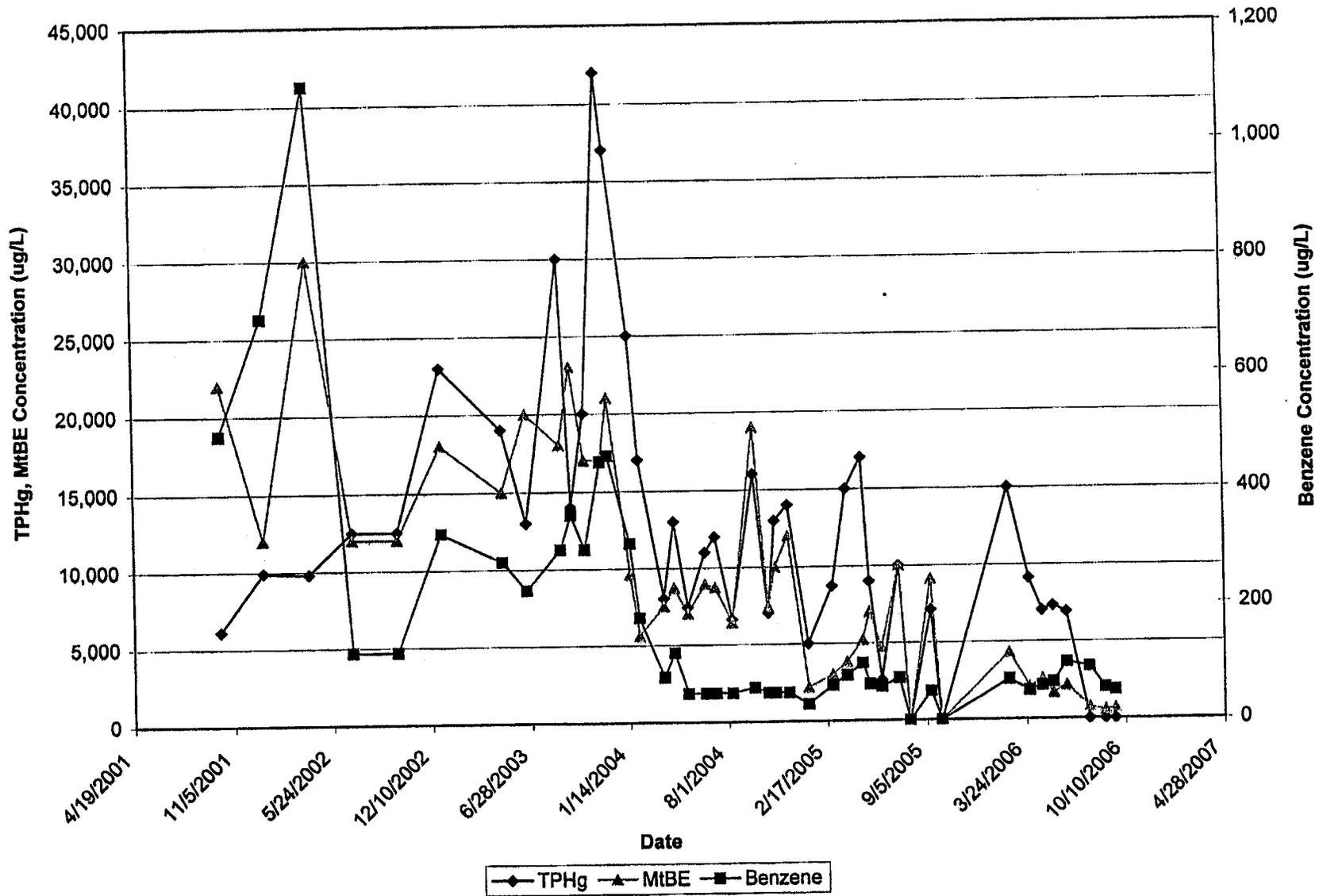
Table 2
Ozone Injection - Groundwater Monitoring Data
 76 Service Station No. 4186
 1771 First Street, Livermore, California

Date	Notes	Monitoring Well: U-3								Monitoring Well: U-6							
		ORP (mV)	DO (mg/l)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (total) (µg/L)	MIBE (µg/L)	ORP (mV)	DO (mg/l)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (total) (µg/L)	MIBE (µg/L)
10/8/2001	a	NM	NM	8100	500	--	--	--	22,000	NM	NM	--	--	--	--	--	5.0
1/3/2002	a	NM	NM	9900	700	--	--	--	12,000	NM	NM	5,000	36	--	--	--	12.5
4/5/2002	a	NM	NM	9800	1,100	--	--	--	30,000	NM	NM	1,300	16	--	--	--	0.94
7/2/2002	a	NM	NM	12500	125	--	--	--	12,000	NM	NM	1,100	1.4	--	--	--	2.6
10/1/2002	a	NM	NM	12500	125	--	--	--	12,000	NM	NM	2,000	5.4	--	--	--	1.0
12/30/2002	a	NM	NM	23000	330	--	--	--	18,000	NM	NM	130	0.25	--	--	--	82
5/2/2003	a	NM	NM	19000	280	--	--	--	15,000	NM	NM	160	0.25	--	--	--	50
6/19/2003	a	NM	NM	13,000	230	<100	220	1,600	20,000	NM	NM	88	<0.50	<0.50	<1.0	76	20
8/28/2003	a	NM	NM	30,000	300	<100	1,000	1,600	18,000	NM	NM	1,000	15	<1.0	76	11	20
9/19/2003		NM	NM	14,000	360	120	340	2,400	23,000	NM	NM	1,100	9	<2.5	25	<5.0	22
10/16/2003		NM	NM	20,000	300	93	280	1,800	17,000	NM	NM	3,700	16	<2.5	90	29	14
11/18/2003		NM	NM	42,000	450	140	1,500	5,100	17,000	NM	NM	5,100	34	2.8	190	160	26
12/3/2003		NM	NM	37,000	480	100	1,600	5,800	21,000	NM	NM	3,500	<5.0	<5.0	8.6	<1.0	36
1/16/2004		NM	NM	25,000	310	<100	110	2,900	9,900	NM	NM	5,000	44	5.8	100	52	36
2/3/2004		NM	NM	17,000	180	<20	670	1,900	5,900	NM	NM	2,800	18	<5.0	49	12	23
3/24/2004	b	-58	NM	8,000	78	<25	340	1,200	7,600	78	NM	710	0.92	<0.50	0.83	<1.0	22
4/14/2004		-4	NM	13,000	120	<50	470	1,400	8,700	37	NM	750	0.64	<0.50	<0.50	<1.0	21
5/11/2004		-79	NM	7,400	<50	<50	170	480	7,000	-40	NM	650	0.88	<0.50	0.88	<1.0	18
6/16/2004		-81	1.42	11,000	<50	<50	190	480	8,900	-51	1.35	470	<0.50	<0.50	<0.50	<1.0	14
7/8/2004	b	-54	5.81	12,000	<50	<50	290	550	5,700	-77	3.01	770	<0.50	<0.50	<0.50	<1.0	8.7
8/9/2004		-54	5.80	6,600	<50	<50	65	370	6,400	-73	6.81	2,300	23	3.0	72	84	12
9/23/2004		-64	c	16,000	69	<50	290	970	19,000	-74	c	5,800	80	<2.5	250	19	16
10/22/2004		-51	3.20	7,000	50	<25	210	270	7,400	-76	1.48	9,500	49	<5.0	92	<1.0	14
11/5/2004		-60	2.38	13,000	<50	<50	190	370	10,000	-56	2.88	2,400	23	0.78	42	1.5	7.2
12/2/2004		-57	5.73	14,000	<50	<50	290	160	12,000	-80	4.58	2,600	18	0.70	45	1.3	11
1/10/2005		7	3.81	<5,000	30	<0.50	3.8	180	2,200	-18	1.95	1,100	4.3	<0.50	12	2.5	3.6
2/28/2005	e	-65	6.09	8,700	62	<13	280	680	3,000	185	5.41	200	<0.50	<0.50	<0.50	<1.0	<0.50
3/28/2005		-48	8.91	15,000	78	<50	400	1,100	3,800	135	7.34	2,200	20	1.20	85	96	6.4
4/29/2005		-40	4.85	17,000	99	<50	580	770	5,200	197	5.31	270	<0.50	<0.50	<0.50	<1.0	1.1
5/13/2005		-62	0.76	9,000	63	<5.0	380	780	7,000	181	1.50	140	<0.50	0.81	<0.50	<1.0	1.1
6/6/2005		-77	0.91	2,800	59	<5.0	450	760	4,700	-72	1.71	160	<0.50	<0.50	<0.50	<1.0	1.0
7/1/2005		-20	1.06	10,000	73	<50	670	280	10,000	112	2.53	450	<0.50	<0.50	<0.50	1.2	1.9
8/1/2005	f	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9/13/2005		-17	1.33	7,100	<50	<50	320	<100	9,100	194	1.51	180	<0.50	<0.50	<0.50	<1.0	1.3
10/4/2005		-42	1.87	--	--	--	--	--	--	122	1.04	--	--	--	--	--	--
2/17/2006		-18	1.43	15,000	69	<25	400	310	4,300	38	1.44	310	<0.50	<0.50	<0.50	<1.0	1.1
3/30/2006		11	1.17	9,100	50	<25	210	700	2,100	47	1.24	60	<0.50	<0.50	<0.50	1.4	<0.50
4/25/2006		4	1.28	7,900	58	<13	310	410	2,600	88	1.36	430	<0.50	2.9	<0.50	<1.0	0.75
5/17/2006		22	1.76	7,300	64	<10	290	330	1,700	77	1.44	290	<0.50	<0.50	<0.50	<1.0	0.64
6/13/2006		-12	1.55	8,900	98	<50	470	300	2,200	97	1.64	72	<0.50	<0.50	<0.50	<1.0	0.66
7/29/2006		37	2.61	<5000	90	<50	400	<100	750	186	1.77	340	<0.50	<0.50	<0.50	<1.0	<0.50
8/30/2006		17	1.78	<5000	64	<50	110	<100	680	104	1.97	280	<0.50	<0.50	<0.50	<1.0	<0.50
9/19/2006		8	1.53	<5000	<50	<50	<50	<100	680	137	1.56	290	<0.50	<0.50	0.59	<1.0	0.81

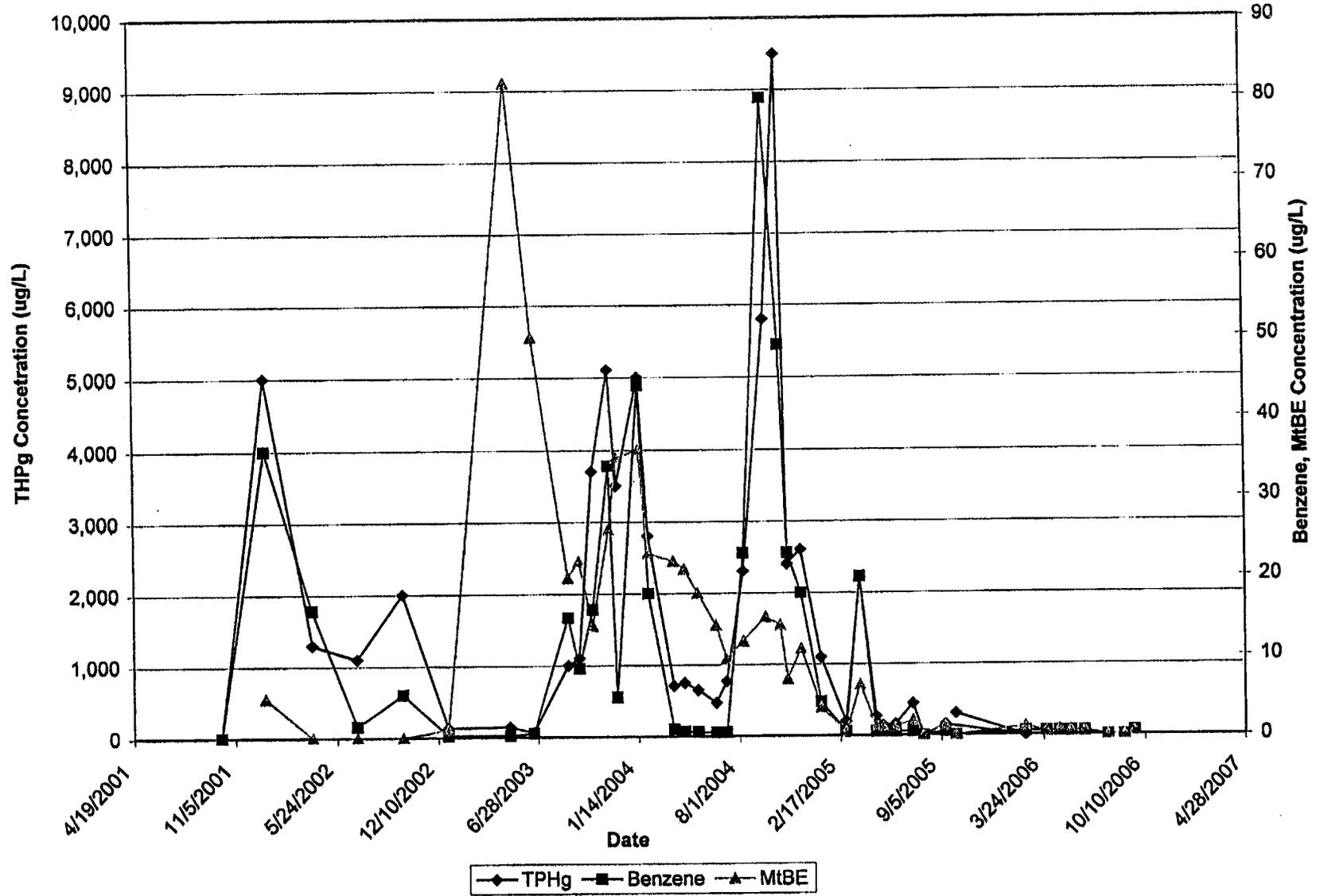
Definitions:	Notes:
TPHg = Total petroleum hydrocarbons as gasoline	NM Not Measured
MIBE = Methyl tert-butyl ether	-- Data not available
µg/L = Micrograms per liter	a Sampled by Gettler-Ryan, Inc.
ORP = Oxidation Reduction Potential	b Hydrocarbon in gasoline range does not match laboratory gasoline standard.
mV = Millivolts	c Data not recorded due to instrumentation malfunction
DO = Dissolved Oxygen	d Data not available at time of reporting
mg/l = Milligrams per liter	e Quantity of unknown hydrocarbon(s) in sample based on gasoline in well U-6.
	f Sampling discontinued at the request of ConocoPhillips

Graphs

Graph 1
U-3 TPHg, Benzene, and MtBE Groundwater Concentrations
 76 Service Station No. 4186
 1771 First Street, Livermore, California



Graph 2
U-6 TPHg, Benzene, and MtBE Groundwater Concentrations
 76 Service Station No. 4186
 1771 First Street, Livermore, California



Appendix A
Field Notes

ConocoPhillips Ozone Injection System Data Sheet

 Station No. T-4186

 City: Livermore

Date	Notes	Status ON/OFF	Cycles/Day	Hour Meter	Well I.D. 02-1				Well I.D. 02-2				Well I.D. 02-3			
					Pressure	Temp.	Run Time	Flowrate	Pressure	Temp.	Run Time	Flowrate	Pressure	Temp.	Run Time	Flowrate
					(psi)	(°F)	(min)	(scfm)	(psi)	(°F)	(min)	(scfm)	(psi)	(°F)	(min)	(scfm)
11 July 06	A	off/on	18	13124	34		8		35		8		36		8	
29 July 06	A	off/on	18	13206	35		8		36		8		37		8	
8 Aug 06	A	off/on	18	13254	35		8		36		8		38		8	
22 Aug 06	A	off/on	18	13317	36		8		35		8		36		8	
5 Sept 06	A	off/on	18	13416	35		8		34		8		37		8	
19 Sept 06	19 Sept 06	off/on	18	13478	38		8		36		8					

Date	Well I.D. 02-4				Well I.D. 02-5				Well I.D. 02-6				Well I.D. 02-7			
	Pressure	Temp.	Run Time	Flowrate	Pressure	Temp.	Run Time	Flowrate	Pressure	Temp.	Run Time	Flowrate	Pressure	Temp.	Run Time	Flowrate
	(psi)	(°F)	(min)	(scfm)												
11 July 06	36		8		34		8		31		8		37		8	
29 July 06	37		8		35		8		33		8		37		8	
8 Aug 06	36		8		34		8		31		8		36		8	
22 Aug 06	37		8		35		8		32		8		38		8	
5 Sept 06	37		8		33		8		31		8		36		8	
19 Sept 06	35		8		35		8		33		8		38		8	

Date	Well I.D. 02-8				Well I.D. 02-9				Well I.D. 02-10				Well I.D.			
	Pressure	Temp.	Run Time	Flowrate	Pressure	Temp.	Run Time	Flowrate	Pressure	Temp.	Run Time	Flowrate	Pressure	Temp.	Run Time	Flowrate
	(psi)	(°F)	(min)	(scfm)	(psi)	(°F)	(min)	(scfm)	(psi)	(°F)	(min)	(scfm)	(psi)	(°F)	(min)	(scfm)
11 July 06	35		8		35		8		39		8					
29 July 06	36		8		36		8		39		8					
8 Aug 06	36		8		35		8		39		8					
22 Aug 06	35		8		37		8		40		8					
5 Sept 06	34		8		35		8		39		8					
19 Sept 06	37		8		37		8		41		8					

Date	Well I.D.															
	Pressure	Temp.	Run Time	Flowrate	Pressure	Temp.	Run Time	Flowrate	Pressure	Temp.	Run Time	Flowrate	Pressure	Temp.	Run Time	Flowrate
	(psi)	(°F)	(min)	(scfm)												

Notes:

A = System down-breaker thrown

B = Hour meter not working.

C = New hour meter installed.

D = Programmed runtime increased to 100%

 page 1 of 1

Ozone Injection System Maintenance and Inspection Log

Station No. T-4186

City: Livermore

Date	Notes - a: Breaker Thrown b: Hour Meter Malfunction c: New Hour Meter d: Rainbird Meter Malfunction	Status Upon Arrival On/Off	Status Upon Departure On/Off	Check Hose Fittings Valves	Measure Blower Running Amperage	Check Electrical Fittings and Controller Operation	Adjust Controller Program	Particle Filter Inspect/ Replace	Check Flow Pressure Assembly	Check Well Head Connect	Test all Safety Override Systems
29 July 06	A	off	ON	OK	-	OK	-	OK	OK	OK	OK
30 Aug 06	A	off	ON	OK	-	OK	-	OK	OK	OK	OK
19 Sept 06	A	off	ON	OK	-	OK	-	OK	OK	OK	OK

Comments: _____

Appendix B
Laboratory Analytical Reports



STL

ANALYTICAL REPORT

Job Number: 720-4842-1

Job Description: Conoco Phillips #4186, Livermore

For:
Environ Strategy
30 Hughs
Suite 209
Irvine, CA 92618

Attention: Mr. Jinghui Niu

A handwritten signature in black ink, appearing to read "D Sharma".

Dimple Sharma
Project Manager I
dsharma@stl-inc.com
08/08/2006

cc: Mr. Darren Azarian
Ms. Lindia Liu
Mr. Sonny Nguyen
Mr. Kevin O'Malley

Project Manager: Dimple Sharma

Severn Trent Laboratories, Inc.
STL San Francisco 1220 Quarry Lane, Pleasanton, CA 94566
Tel (925) 484-1919 Fax (925) 484-1096 www.stl-inc.com

METHOD SUMMARY

Client: Environ Strategy

Job Number: 720-4842-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS	STL-SF	SW846 8260B	
Purge-and-Trap	STL-SF		SW846 5030B

LAB REFERENCES:

STL-SF = STL-San Francisco

METHOD REFERENCES:

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986
And Its Updates.

SAMPLE SUMMARY

Client: Environ Strategy

Job Number: 720-4842-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-4842-1	U-3	Water	07/29/2006 1410	08/01/2006 1415
720-4842-2	U-6	Water	07/29/2006 1430	08/01/2006 1415

Analytical Data

Client: Environ Strategy

Job Number: 720-4842-1

Client Sample ID: U-3

Lab Sample ID: 720-4842-1

Client Matrix: Water

Date Sampled: 07/29/2006 1410

Date Received: 08/01/2006 1415

8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 720-11639

Instrument ID: Varian 3900A

Preparation: 5030B

Lab File ID: c:\satumws\data\200608\08

Dilution: 100

Initial Weight/Volume: 10 mL

Date Analyzed: 08/03/2006 0440

Final Weight/Volume: 10 mL

Date Prepared: 08/03/2006 0440

Analyte	Result (ug/L)	Qualifier	RL
Benzene	90		50
Ethylbenzene	400		50
MTBE	750		50
Toluene	ND		50
Xylenes, Total	ND		100
Gasoline Range Organics (GRO)-C6-C12	ND		5000
Surrogate	%Rec		Acceptance Limits
Toluene-d8	94		77 - 121
1,2-Dichloroethane-d4	101		73 - 130

Analytical Data

Client: Environ Strategy

Job Number: 720-4842-1

Client Sample ID: U-6

Lab Sample ID: 720-4842-2
Client Matrix: Water

Date Sampled: 07/29/2006 1430
Date Received: 08/01/2006 1415

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 08/03/2006 1317
Date Prepared: 08/03/2006 1317

Analysis Batch: 720-11630

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200608\08
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C6-C12	340		50
Surrogate	%Rec		Acceptance Limits
Toluene-d8	95		77 - 121
1,2-Dichloroethane-d4	96		73 - 130

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description
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Quality Control Results

Client: Environ Strategy

Job Number: 720-4842-1

QC Association Summary

Lab Sample ID	Client Sample ID	Client Matrix	Method	Prep Batch
GC/MS VOA				
Analysis Batch:720-11630				
LCS 720-11630/5	Lab Control Spike	Water	8260B	
LCSD 720-11630/4	Lab Control Spike Duplicate	Water	8260B	
MB 720-11630/6	Method Blank	Water	8260B	
720-4842-2	U-6	Water	8260B	
720-4842-2MS	Matrix Spike	Water	8260B	
720-4842-2MSD	Matrix Spike Duplicate	Water	8260B	
Analysis Batch:720-11639				
LCS 720-11639/17	Lab Control Spike	Water	8260B	
LCSD 720-11639/16	Lab Control Spike Duplicate	Water	8260B	
MB 720-11639/18	Method Blank	Water	8260B	
720-4842-1	U-3	Water	8260B	
720-4851-B-2 MS	Matrix Spike	Water	8260B	
720-4851-B-2 MSD	Matrix Spike Duplicate	Water	8260B	

Quality Control Results

Client: Environ Strategy

Job Number: 720-4842-1

Method Blank - Batch: 720-11630

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-11630/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/03/2006 1041
Date Prepared: 08/03/2006 1041

Analysis Batch: 720-11630
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200608\08
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C6-C12	ND		50
Surrogate	% Rec	Acceptance Limits	
Toluene-d8	90	77 - 121	
1,2-Dichloroethane-d4	95	73 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Environ Strategy

Job Number: 720-4842-1

**Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 720-11630**

**Method: 8260B
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-11630/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/03/2006 0957
Date Prepared: 08/03/2006 0957

Analysis Batch: 720-11630
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: c:\satumws\data\200608\080
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-11630/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/03/2006 1019
Date Prepared: 08/03/2006 1019

Analysis Batch: 720-11630
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: c:\satumws\data\200608\080
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Benzene	93	94	69 - 129	1	25		
MTBE	89	95	65 - 165	7	25		
Toluene	94	99	70 - 130	5	25		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
Toluene-d8	95		96		77 - 121		
1,2-Dichloroethane-d4	89		91		73 - 130		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Environ Strategy

Job Number: 720-4842-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-11630**

**Method: 8260B
Preparation: 5030B**

MS Lab Sample ID: 720-4842-2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/03/2006 1340
Date Prepared: 08/03/2006 1340

Analysis Batch: 720-11630
Prep Batch: N/A

Instrument ID: Varian 3900A
Lab File ID: c:\satumws\data\200608\08
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 720-4842-2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/03/2006 1402
Date Prepared: 08/03/2006 1402

Analysis Batch: 720-11630
Prep Batch: N/A

Instrument ID: Varian 3900A
Lab File ID: c:\satumws\data\200608\08
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	93	92	69 - 129	0	20		
MTBE	98	95	65 - 165	2	20		
Toluene	94	97	70 - 130	4	20		
Surrogate	MS % Rec		MSD % Rec		Acceptance Limits		
Toluene-d8	94		97		77 - 121		
1,2-Dichloroethane-d4	90		90		73 - 130		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Environ Strategy

Job Number: 720-4842-1

Method Blank - Batch: 720-11639

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-11639/18
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/02/2006 1924
Date Prepared: 08/02/2006 1924

Analysis Batch: 720-11639
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200608\06
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C6-C12	ND		50
Surrogate	% Rec	Acceptance Limits	
Toluene-d8	91	77 - 121	
1,2-Dichloroethane-d4	90	73 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Environ Strategy

Job Number: 720-4842-1

**Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 720-11639**

**Method: 8260B
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-11639/17
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/02/2006 1839
Date Prepared: 08/02/2006 1839

Analysis Batch: 720-11639
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: c:\satumws\data\200608\080
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-11639/16
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/02/2006 1902
Date Prepared: 08/02/2006 1902

Analysis Batch: 720-11639
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: c:\satumws\data\200608\080
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Benzene	95	97	69 - 129	2	25		
MTBE	92	91	65 - 165	2	25		
Toluene	100	97	70 - 130	3	25		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
Toluene-d8	92		92		77 - 121		
1,2-Dichloroethane-d4	84		87		73 - 130		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Environ Strategy

Job Number: 720-4842-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-11639**

**Method: 8260B
Preparation: 5030B**

MS Lab Sample ID: 720-4851-B-2 MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/02/2006 2115
Date Prepared: 08/02/2006 2115

Analysis Batch: 720-11639
Prep Batch: N/A

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200608\08
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 720-4851-B-2 MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/02/2006 2137
Date Prepared: 08/02/2006 2137

Analysis Batch: 720-11639
Prep Batch: N/A

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200608\08
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	99	96	69 - 129	3	20		
MTBE	100	101	65 - 165	1	20		
Toluene	99	98	70 - 130	1	20		
Surrogate	MS % Rec		MSD % Rec		Acceptance Limits		
Toluene-d8	93		94		77 - 121		
1,2-Dichloroethane-d4	91		91		73 - 130		

Calculations are performed before rounding to avoid round-off errors in calculated results.

LOGIN SAMPLE RECEIPT CHECK LIST

Client: Environ Strategy

Job Number: 720-4842-1

Login Number: 4842

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



STL

ANALYTICAL REPORT

Job Number: 720-5297-1

Job Description: Conoco Phillips #4186, Livermore

For:
Environ Strategy
30 Hughs
Suite 209
Irvine, CA 92618

Attention: Mr. Jinghui Niu

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

Dimple Sharma
Project Manager I
dsharma@stl-inc.com
09/08/2006

cc: Mr. Darren Azarian
Ms. LINDIA LIU
Mr. Sonny Nguyen
Mr. Kevin O'Malley

Project Manager: Dimple Sharma

Severn Trent Laboratories, Inc.
STL San Francisco 1220 Quarry Lane, Pleasanton, CA 94566
Tel (925) 484-1919 Fax (925) 484-1096 www.stl-inc.com

METHOD SUMMARY

Client: Environ Strategy

Job Number: 720-5297-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS	STL SF	SW846 8260B	
Purge-and-Trap	STL SF		SW846 5030B

LAB REFERENCES:

STL SF = STL San Francisco

METHOD REFERENCES:

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986
And Its Updates.

SAMPLE SUMMARY

Client: Environ Strategy

Job Number: 720-5297-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-5297-1	U-3	Water	08/30/2006 1100	08/30/2006 1137
720-5297-2	U-6	Water	08/30/2006 1045	08/30/2006 1137

Analytical Data

Client: Environ Strategy

Job Number: 720-5297-1

Client Sample ID: U-3

Lab Sample ID: 720-5297-1

Client Matrix: Water

Date Sampled: 08/30/2006 1100

Date Received: 08/30/2006 1137

8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 720-12880

Instrument ID: Varian 3900C

Preparation: 5030B

Lab File ID: c:\saturday\data\200609\09

Dilution: 100

Initial Weight/Volume: 40 mL

Date Analyzed: 09/06/2006 1922

Final Weight/Volume: 40 mL

Date Prepared: 09/06/2006 1922

Analyte	Result (ug/L)	Qualifier	RL
Benzene	54		50
Ethylbenzene	110		50
MTBE	560		50
Toluene	ND		50
Xylenes, Total	ND		100
Gasoline Range Organics (GRO)-C6-C12	ND		5000
Surrogate	%Rec		Acceptance Limits
Toluene-d8 (Surr)	97		77 - 121
1,2-Dichloroethane-d4 (Surr)	111		73 - 130

Analytical Data

Client: Environ Strategy

Job Number: 720-5297-1

Client Sample ID: U-6

Lab Sample ID: 720-5297-2

Client Matrix: Water

Date Sampled: 08/30/2006 1045

Date Received: 08/30/2006 1137

8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 720-12880

Instrument ID: Varian 3900C

Preparation: 5030B

Lab File ID: c:\saturday\data\200609\09

Dilution: 1.0

Initial Weight/Volume: 40 mL

Date Analyzed: 09/06/2006 1949

Final Weight/Volume: 40 mL

Date Prepared: 09/06/2006 1949

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C6-C12	280		50
Surrogate	%Rec		Acceptance Limits
Toluene-d8 (Surr)	119		77 - 121
1,2-Dichloroethane-d4 (Surr)	113		73 - 130

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description
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Quality Control Results

Client: Environ Strategy

Job Number: 720-5297-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:720-12880					
LCS 720-12880/2	Lab Control Spike	T	Water	8260B	
LCSD 720-12880/1	Lab Control Spike Duplicate	T	Water	8260B	
MB 720-12880/3	Method Blank	T	Water	8260B	
720-5297-1	U-3	T	Water	8260B	
720-5297-2	U-6	T	Water	8260B	
720-5341-A-1 MS	Matrix Spike	T	Water	8260B	

Report Basis

T = Total

Quality Control Results

Client: Environ Strategy

Job Number: 720-5297-1

Method Blank - Batch: 720-12880

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-12880/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/06/2006 1050
Date Prepared: 09/06/2006 1050

Analysis Batch: 720-12880
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900C
Lab File ID: C:\SaturnWS\data\mb-wa-f
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C6-C12	ND		50

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	115	77 - 121
1,2-Dichloroethane-d4 (Surr)	110	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Environ Strategy

Job Number: 720-5297-1

**Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-12880**

**Method: 8260B
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-12880/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/06/2006 0930
Date Prepared: 09/06/2006 0930

Analysis Batch: 720-12880
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900C
Lab File ID: C:\SaturnWS\data\ls-wa-6-0
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 720-12880/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/06/2006 0956
Date Prepared: 09/06/2006 0956

Analysis Batch: 720-12880
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900C
Lab File ID: C:\SaturnWS\data\ld-wa-6-0
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Benzene	101	107	69 - 129	6	25		
MTBE	109	110	65 - 165	1	25		
Toluene	111	116	70 - 130	4	25		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
Toluene-d8 (Surr)	115		114		77 - 121		
1,2-Dichloroethane-d4 (Surr)	108		106		73 - 130		

Matrix Spike - Batch: 720-12880

**Method: 8260B
Preparation: 5030B**

Lab Sample ID: 720-5341-A-1 MS
Client Matrix: Water
Dilution: 10
Date Analyzed: 09/06/2006 1335
Date Prepared: 09/06/2006 1335

Analysis Batch: 720-12880
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900C
Lab File ID: C:\SaturnWS\data\ms-wa-5
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	0.0	250	253	101	69 - 129	
MTBE	0.0	250	229	92	65 - 165	
Toluene	0.0	250	248	99	70 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

STL-San Francisco

1220 Quarry Lane
Pleasanton, CA 94566

(925) 484-1919 (925) 484-1098 fax

ConocoPhillips Chain Of Custody Record

101593

ConocoPhillips Site Manager:
INVOICE REMITTANCE ADDRESS: CONOCOPHILLIPS
 Attn: Dee Hutchinson
 9811 South Harbor, Suite 200
 Santa Ana, CA. 92704

ConocoPhillips Work Order Number:
 ConocoPhillips Order Object:

DATE: 8/30/06
 PAGE: _____ of _____

720-5297

SAMPLING COMPANY: Enviroton Strategy Inc.
 ADDRESS: 90 Hughes, Suite 208 Irvine, Ca 92618
 PROJECT CONTACT (Hardcopy or PDF Report to): Kevin O'Malley
 TELEPHONE: (949) 661-3222 FAX: (949) 661-3207 EMAIL:

Valid Value ID:
 CONOCOPHILLIPS SITE NUMBER: 4188
 SITE ADDRESS (Street and City): 1771 First St., Livermore, Ca.
 CONOCOPHILLIPS SITE MANAGER: Shelby Lethrop
 CONOCOPHILLIPS ORDER OBJECT:

GLOBAL ID NO.: T0600101777
 PHONE NO.: (949) 991-3222
 FAX: (949) 991-3222

SAMPLER NAME(S) (Print): Jeff Adams
 CONSULTANT PROJECT NUMBER: 328-A
REQUESTED ANALYSES

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

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDO IS NEEDED

* Field Point name only required if different from Sample ID

DATE (MM/YY)	Sample Identification/Field Point Name*	SAMPLING		MATRIX	NO. OF CONT.	8015M - TPHM Extractable	E2008 - TPHg/BTEX/MS	E2008 - TPHg/BTEX/MS Oxidizables	E2008 - TPHg/BTEX/MS organics + methanol (8015M)	E2008 - Full Scan VOCs (does not include organics)	E270C - Semi-Volatiles	8010M / 8021B - TPHg/BTEX/MS	Lead DTCLC DTCLP	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes	TEMPERATURE ON RECEIPT °C
		DATE	TIME												
8/30/06	U-3	11:00		Water	3	X									16
8/30/06	U-6	1:05		Water	3	X									

Relinquished by: (Signature) *Kevin O'Malley* Received by: (Signature) *Dee Hutchinson* Date: 8/30/06 Time: 11:37

Relinquished by: (Signature) Received by: (Signature) Date: _____ Time: _____

Relinquished by: (Signature) Received by: (Signature) Date: _____ Time: _____

8/19/03 Revision

LOGIN SAMPLE RECEIPT CHECK LIST

Client: Environ Strategy

Job Number: 720-5297-1

Login Number: 5297

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	



STL

ANALYTICAL REPORT

Job Number: 720-5559-1

Job Description: Conoco Phillips #4186, Livermore

For:
Environ Strategy
30 Hughs
Suite 209
Irvine, CA 92618

Attention: Mr. Jinghui Niu

A handwritten signature in black ink, appearing to read "D Sharma".

Dimple Sharma
Project Manager I
dsharma@stl-inc.com
09/29/2006

cc: Mr. Darren Azarian
Ms. LINDIA LIU
Mr. Sonny Nguyen
Mr. Kevin O'Malley

Project Manager: Dimple Sharma

Severn Trent Laboratories, Inc.
STL San Francisco 1220 Quarry Lane, Pleasanton, CA 94566
Tel (925) 484-1919 Fax (925) 484-1096 www.stl-inc.com

METHOD SUMMARY

Client: Environ Strategy

Job Number: 720-5559-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS	STL SF	SW846 8260B	
Purge-and-Trap	STL SF		SW846 5030B

LAB REFERENCES:

STL SF = STL San Francisco

METHOD REFERENCES:

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986
And Its Updates.

SAMPLE SUMMARY

Client: Environ Strategy

Job Number: 720-5559-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-5559-1	U-3	Water	09/19/2006 1000	09/19/2006 1027
720-5559-2	U-6	Water	09/19/2006 0930	09/19/2006 1027

Analytical Data

Client: Environ Strategy

Job Number: 720-5559-1

Client Sample ID: U-3

Lab Sample ID: 720-5559-1

Date Sampled: 09/19/2006 1000

Client Matrix: Water

Date Received: 09/19/2006 1027

8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 720-13538

Instrument ID: Varian 3900C

Preparation: 5030B

Lab File ID: c:\saturnws\data\200609\09

Dilution: 100

Initial Weight/Volume: 40 mL

Date Analyzed: 09/26/2006 1636

Final Weight/Volume: 40 mL

Date Prepared: 09/26/2006 1636

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		50
Ethylbenzene	ND		50
MTBE	680		50
Toluene	ND		50
Xylenes, Total	ND		100
Gasoline Range Organics (GRO)-C6-C12	ND		5000
Surrogate	%Rec		Acceptance Limits
Toluene-d8 (Surr)	108		77 - 121
1,2-Dichloroethane-d4 (Surr)	104		73 - 130

Analytical Data

Client: Environ Strategy

Job Number: 720-5559-1

Client Sample ID: U-6

Lab Sample ID: 720-5559-2

Client Matrix: Water

Date Sampled: 09/19/2006 0930

Date Received: 09/19/2006 1027

8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 720-13670

Instrument ID: Varian 3900E

Preparation: 5030B

Lab File ID: c:\varianws\data\200609\09

Dilution: 1.0

Initial Weight/Volume: 10 mL

Date Analyzed: 09/27/2006 1244

Final Weight/Volume: 10 mL

Date Prepared: 09/27/2006 1244

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Ethylbenzene	0.59		0.50
MTBE	0.51		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C6-C12	290		50
Surrogate	%Rec		Acceptance Limits
Toluene-d8 (Surr)	92		77 - 121
1,2-Dichloroethane-d4 (Surr)	101		73 - 130

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description
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Quality Control Results

Client: Environ Strategy

Job Number: 720-5559-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:720-13538					
LCS 720-13538/4	Lab Control Spike	T	Water	8260B	
MB 720-13538/5	Method Blank	T	Water	8260B	
720-5559-1	U-3	T	Water	8260B	
Analysis Batch:720-13670					
LCS 720-13670/2	Lab Control Spike	T	Water	8260B	
LCSD 720-13670/1	Lab Control Spike Duplicate	T	Water	8260B	
MB 720-13670/3	Method Blank	T	Water	8260B	
720-5558-A-2 MS	Matrix Spike	T	Water	8260B	
720-5558-A-2 MSD	Matrix Spike Duplicate	T	Water	8260B	
720-5559-2	U-6	T	Water	8260B	

Report Basis

T = Total

Quality Control Results

Client: Environ Strategy

Job Number: 720-5559-1

Method Blank - Batch: 720-13538

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-13538/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/26/2006 1056
Date Prepared: 09/26/2006 1056

Analysis Batch: 720-13538
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900C
Lab File ID: c:\saturnws\data\200609\105
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C6-C12	ND		50
Surrogate	% Rec		Acceptance Limits
Toluene-d8 (Surr)	108		77 - 121
1,2-Dichloroethane-d4 (Surr)	106		73 - 130

Lab Control Spike - Batch: 720-13538

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 720-13538/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/26/2006 0909
Date Prepared: 09/26/2006 0909

Analysis Batch: 720-13538
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900C
Lab File ID: c:\saturnws\data\200609\105
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	25.0	22.8	91	69 - 129	
MTBE	25.0	25.1	100	65 - 165	
Toluene	25.0	26.5	106	70 - 130	
Surrogate		% Rec		Acceptance Limits	
Toluene-d8 (Surr)		110		77 - 121	
1,2-Dichloroethane-d4 (Surr)		100		73 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Environ Strategy

Job Number: 720-5559-1

Method Blank - Batch: 720-13670

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-13670/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/27/2006 1005
Date Prepared: 09/27/2006 1005

Analysis Batch: 720-13670
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900E
Lab File ID: c:\varianws\data\200609\09
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C6-C12	ND		50
Surrogate	% Rec	Acceptance Limits	
Toluene-d8 (Surr)	93	77 - 121	
1,2-Dichloroethane-d4 (Surr)	102	73 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Environ Strategy

Job Number: 720-5559-1

**Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-13670**

**Method: 8260B
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-13670/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/27/2006 0839
Date Prepared: 09/27/2006 0839

Analysis Batch: 720-13670
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900E
Lab File ID: c:\varianws\data\200609\092
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-13670/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/27/2006 0900
Date Prepared: 09/27/2006 0900

Analysis Batch: 720-13670
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900E
Lab File ID: c:\varianws\data\200609\092
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Benzene	86	89	69 - 129	4	25		
MTBE	99	103	65 - 165	4	25		
Toluene	84	89	70 - 130	6	25		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
Toluene-d8 (Surr)	91		94	77 - 121			
1,2-Dichloroethane-d4 (Surr)	97		97	73 - 130			

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Environ Strategy

Job Number: 720-5559-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-13670**

**Method: 8260B
Preparation: 5030B**

MS Lab Sample ID: 720-5558-A-2 MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/27/2006 1056
Date Prepared: 09/27/2006 1056

Analysis Batch: 720-13670
Prep Batch: N/A

Instrument ID: Varian 3900E
Lab File ID: c:\varianws\data\200609\09
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 720-5558-A-2 MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/27/2006 1118
Date Prepared: 09/27/2006 1118

Analysis Batch: 720-13670
Prep Batch: N/A

Instrument ID: Varian 3900E
Lab File ID: c:\varianws\data\200609\09
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	91	93	69 - 129	3	20		
MTBE	98	102	65 - 165	4	20		
Toluene	88	90	70 - 130	2	20		
Surrogate		MS % Rec	MSD % Rec			Acceptance Limits	
Toluene-d8 (Surr)		94	92			77 - 121	
1,2-Dichloroethane-d4 (Surr)		101	102			73 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

LOGIN SAMPLE RECEIPT CHECK LIST

Client: Environ Strategy

Job Number: 720-5559-1

Login Number: 5559

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	