

  
76 Broadway  
Sacramento, California 95818

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2:20 pm, Aug 15, 2008

Alameda County  
Environmental Health

August 13, 2008

Jerry Wickham  
Alameda County Health Agency  
1131 Harbor Bay parkway, Suite250  
Alameda, California 94502-577

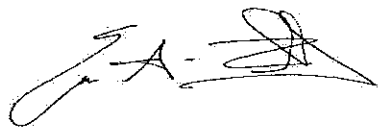
Re: *Quarterly Summary Report and Sensitive Receptor Survey*  
Former 76 Service Station # 4186  
1771 First Street  
Livermore, CA

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 call me at (916) 558-7612.

Sincerely,



Bill Borgh  
Site Manager  
Risk Management & Remediation

August 13, 2008

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

**Re: Quarterly Summary Report – Second Quarter 2008  
And Sensitive Receptor Survey**  
Delta Project Number: C1Q-4186-604



Dear Mr. Wickham:

On behalf of ConocoPhillips (COP), Delta Consultants (Delta) is submitting the Quarterly Summary Report – Second Quarter 2008 and forwarding a copy of TRCSolutions, Inc. (TRC's) *Quarterly Monitoring Report, April through June 2008*, dated July 9, 2008, for the following location:

**Service Station**

Former 76 Service Station No. 4186

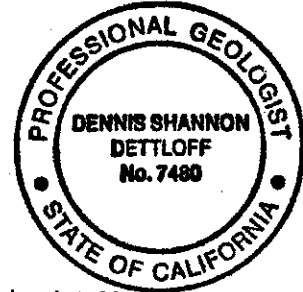
**Location**

1771 First Street  
Livermore,  
California

Sincerely,  
**DELTA CONSULTANTS**

A handwritten signature in black ink, appearing to read "Dennis S. Dettloff".

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



cc: Mr. Terry Grayson, ConocoPhillips (electronic copy)

**QUARTERLY SUMMARY REPORT**  
**Sensitive Receptor Survey**  
**Second Quarter 2008**  
**76 Station No. 4186**  
**1771 First Street**  
**Livermore, California**

**SITE DESCRIPTION**

The site is located on the southwest corner of the intersection of First Street and N Street, and is currently an active Chevron service station. Two 10,000-gallon gasoline underground storage tanks (USTs), four dispenser islands, and a station building are present at the site. The site is located in a generally commercial area.

**PREVIOUS ASSESSMENT**

In June 1996, during dispenser and piping replacement activities, six soil samples were collected beneath the dispensers and product piping. Total petroleum hydrocarbons as gasoline (TPHg) and benzene, toluene, ethyl-benzene and total xylenes (BTEX) were below the laboratory's indicated reporting limits in all of the samples collected and submitted for analysis.

In September 1997, a soil gas survey was conducted at the site. Six soil gas probes were advanced and samples were collected at 3 or 15 feet below ground surface (bgs) in the vicinity of the USTs, dispenser islands, and product lines. TPHg was reported in the samples at concentrations ranging from 41 to 4,500 parts per billion by volume (ppbv), benzene was reported at concentrations up to 110 ppbv, and methyl tertiary butyl ether (MTBE) was reported at concentrations up to 8,000 ppbv. The highest concentrations were reported in the area of the USTs.

In June 1998, three groundwater monitoring wells (U-1 through U-3) were installed at the site to depths of 34 feet bgs. TPHg, benzene, and MTBE were below the laboratory's indicated reporting limits in soil samples collected from the well borings.

A site conceptual model (SCM) was completed for the site in May 2000. The groundwater flow velocity was calculated to estimate plume travel time to the nearest down-gradient receptor. Groundwater velocity was calculated to be 46 feet per year. It was concluded that hydrocarbon impact to groundwater appears to fluctuate with the rise and fall of the groundwater surface beneath the site.

In February 2001, two additional monitoring wells (U-4 and U-5) were installed. The monitoring wells were installed to depths of 45 feet bgs (U-4) and 47 feet bgs (U-5). TPHg, BTEX, and MTBE were below the laboratory's indicated reporting limits in soil samples collected from the well borings. TPHg and benzene were below the laboratory's indicated reporting limits in the initial groundwater samples collected from monitoring wells U-4 and U-5; however, MTBE was reported at concentrations of 38.2 and 55.4 micrograms per liter ( $\mu\text{g/L}$ ), respectively.

In December 2001, two additional monitoring wells (U-6 and U-7) and eight ozone injection sparge wells (SP-1 through SP-4, SP-5/5S, SP-6S, SP-7S, and SP-8/8S) were installed at the site. The monitoring wells were installed to 45 feet bgs. The sparge

points in wells SP-1 through SP-4 were installed to a depth of 45 feet bgs. The sparge points in wells SP-6S and SP-7S were installed to a shallower depth of 25 feet bgs. The remaining two sparge wells each contained dual-nested sparge points installed to 25 feet bgs (SP-5S and SP-8S) and 45 feet bgs (SP-5 and SP-8). An ozone microsparge system was then installed and began operation in December 2001. The system injected ozone into the 10 sparge points.

In April 2006, seven borings (B-1 through B-7) were advanced at the site. Three boreholes were advanced at each boring location. The initial borehole was advanced to record a cone penetrometer (CPT) log of subsurface lithology. The second borehole was advanced for the purpose of collecting soil samples for observation and laboratory analysis, and to collect discrete groundwater samples at depths of approximately 38 feet to 44 feet bgs. The third borehole was advanced to collect a discrete groundwater sample at approximately 57 feet to 65 feet bgs. Three general stratigraphic zones were identified: an upper zone from 36 to 43 feet bgs, a middle clay zone from 43 to 55 feet bgs, and a lower zone from 55 to the maximum depth of 65.5 feet bgs explored. Soil samples from various depths were submitted for laboratory analysis. TPHg was reported in five upper zone, six clay zone, and three lower zone soil samples at concentrations up to 700 milligrams per kilogram (mg/kg). MTBE was reported in three upper zone, three clay zone, and two lower zone soil samples at concentrations up to 0.29 milligrams per kilogram (mg/kg). Benzene was reported in three clay zone soil samples at concentrations up to 1.3 mg/kg. TPHg was reported in all of the 14 groundwater samples at concentrations up to 26,000 µg/L. Benzene was reported in five upper zone, and six lower zone groundwater samples at concentrations up to 510 µg/L. MTBE was reported in four upper zone, and six lower zone groundwater samples at concentrations up to 1,100 µg/L.

In March 2007, two additional on-site borings (B-8 and B-9) and one additional off-site boring (B-10) were advanced using a CPT rig. The borings were advanced to further evaluate the vertical extent of impacted groundwater to the base of the lowermost sand and gravel unit, to evaluate groundwater quality in the lowermost sand and gravel unit down-gradient of the site, and to evaluate the presence of a clay layer underlying the lowermost coarse-grained soils which may represent a regional aquitard. Four soil samples were collected for laboratory analysis from off-site boring B-10. MTBE was reported in two of the samples at concentrations up to 0.016 mg/kg; TPHg and benzene were below the laboratory's indicated reporting limits in all of the soil samples collected for analysis. TPHg (200 µg/L), benzene (0.94 µg/L), and MTBE (7.1 µg/L) were reported in the groundwater sample collected at 79 to 83 feet bgs from boring B-8. TPHg, BTEX, and fuel oxygenates were below the laboratory's indicated reporting limits in the groundwater sample collected at 78 to 88 feet bgs from boring B-9. A low concentration of MTBE (0.73 µg/L) was reported in the groundwater sample collected at 66 to 70 feet bgs from boring B-10, and a low concentration of toluene (1.4 µg/L) was reported in the groundwater sample collected at 83 to 87 feet bgs from boring B-10. Based on the results of the investigation, soil and groundwater in the area of off-site boring B-10 did not appear to be significantly impacted, groundwater within the lowermost sand and gravel unit in the area of boring B-8 was slightly impacted, and groundwater within the lowermost sand and gravel unit in the area of boring B-9 was not impacted.

Quarterly monitoring of the site wells has been performed since July 1998. Historically,

the groundwater flow direction has varied from the north to the southwest. The depth to groundwater has varied from 21.62 feet bgs to 46.31 feet bgs.

Although the ozone system experienced problems with consistent operation, it appeared to be effective as TPHg, BTEX, and MTBE concentrations in monitoring well U-3 significantly decreased since startup of the system. The system was shut down in October 2006 to evaluate for groundwater concentration rebound. In March 2007, oxygen injection testing was performed in sparge wells SP-5/5S and SP-6S to evaluate the radius of influence (ROI) of the existing sparge wells, and to evaluate the effectiveness of the existing system. As described in our *Additional Subsurface Assessment Report*, dated April 26, 2007, the testing suggested a ROI of between 10 to 15 feet around the wells on average, but perhaps greater in some areas.

Impacted groundwater remains beneath the site in the areas of monitoring wells U-6 and U-7. Impacted groundwater also remains in the northwest portion of the site based on the results of the borings advanced in April 2006.

### **SENSITIVE RECEPTORS**

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

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

### **MONITORING AND SAMPLING**

Groundwater is currently monitored and sampled on a quarterly basis. During the June 12, 2008 monitoring and sampling event, depth to groundwater ranged from 31.23 feet (U-3) to 39.9 feet (U-5) below top of casing (TOC). The groundwater flow direction was interpreted to be to the west with a gradient of 0.06 foot per foot (ft/ft). Historic groundwater flow directions are shown on a rose diagram presented as Attachment B.

### **Contaminants of Concern:**

**TPPH:** Total purgeable petroleum hydrocarbons (TPPH) were above the laboratory's indicated reporting limits in the groundwater samples collected from monitoring wells U-3 (770 µg/L), U-4 (71 µg/L), U-5 (55 µg/L), U-6 (2,100 µg/L), and U-7 (1,200 µg/L) during the current sampling event.

**Benzene:** Benzene was above the laboratory's indicated reporting limits in the groundwater samples collected from monitoring wells U-3 (4.1 µg/L), U-6 (11 µg/L), and U-7 (1.9 µg/L) during the current sampling event.

**MTBE:** MTBE was above the laboratory's indicated reporting limits in the groundwater samples collected from monitoring wells U-3 (27 µg/L), U-4 (7.5

µg/L), U-5 (28 µg/L), U-6 (1.1 µg/L), and U-7 (40 µg/L) during the current sampling event.

Additionally, toluene, ethyl-benzene, and total xylenes were above the laboratory's indicated reporting limits in monitoring well U-6 (0.79 µg/L, 27 µg/L, and 2.3 µg/L, respectively). Ethyl-benzene was additionally reported in monitoring well U-7 (1.1 µg/L) during the current sampling event.

In addition, at the request of the Alameda County Health Care Services Agency (ACHCSA) each groundwater sample collected and submitted for analysis were analyzed for CAM 17 metals, total dissolved solids, hexavalent chromium, major anions and major cations. The additional analytical data is presented in tables 1a through 1d in TRC's *Quarterly Monitoring Report, April through June 2008*, dated July 9, 2008.

### **REMEDIATION STATUS**

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

During the Second Quarter 2007, the ozone system was shut down, to evaluate whether dissolved gasoline concentrations would rebound or remain stable in the absence of ozone injection with the current well and system configuration.

Based on existing groundwater monitoring data it appears the ozone injection is effective in reducing the petroleum hydrocarbon impact to the groundwater in the vicinity of monitoring well U-3. It also appears based on the data collected during the oxygen injection test conducted by Delta in March 2007, ozone injection at the site would be effective in reducing the petroleum hydrocarbon impact to the groundwater at the site. However, the configuration of the current system is being evaluated and a work plan has been prepared and submitted to the ACHCSA recommending changes to the current system, including the placement of new wells and/or re-screening existing well locations, as appropriate based on soil types and areas requiring further remediation. The installation of the additional ozone injection wells as well as the upgrade of the ozone injection system is currently on hold pending the results of the upcoming site investigation.

### **CHARACTERIZATION STATUS**

The furthest up-gradient monitor well, U-7, contained 40 µg/L MTBE and 1,200 µg/L TPHg during the second quarter 2008 sampling event. The furthest off-site down-gradient monitoring well, U-4, contained 7.5 µg/L MTBE and 71 µg/L TPHg during the second quarter 2008 monitoring and sampling event.

### **RECENT CORRESPONDENCE**

On May 19, 2008 Delta on behalf of COP requested in an email that the monitoring wells be installed and based on the data obtained from the monitoring well installation, site investigation, the remediation system be designed. ACHCSA agreed with this recommendation in an email on June 3, 2008.

On July 11, 2008 COP requested an extension, until November 12, 2008, in an email for the submittal of the monitoring well installation report. ACHCSA agreed to the extension in an email dated July 17, 2008.

**THIS QUARTER ACTIVITIES (Second Quarter 2008)**

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

**WASTE DISPOSAL SUMMARY**

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

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

**NEXT QUARTER ACTIVITIES (Third Quarter 2008)**

1. TRC will conduct quarterly groundwater monitoring and sampling at the site.
2. Delta is currently preparing to install five additional ozone injection wells, four intermediate water bearing zone groundwater monitoring wells, and four deep water bearing zone groundwater monitoring wells at the site. The results of this investigation will be presented under a separate cover.

**CONSULTANT:** Delta Consultants

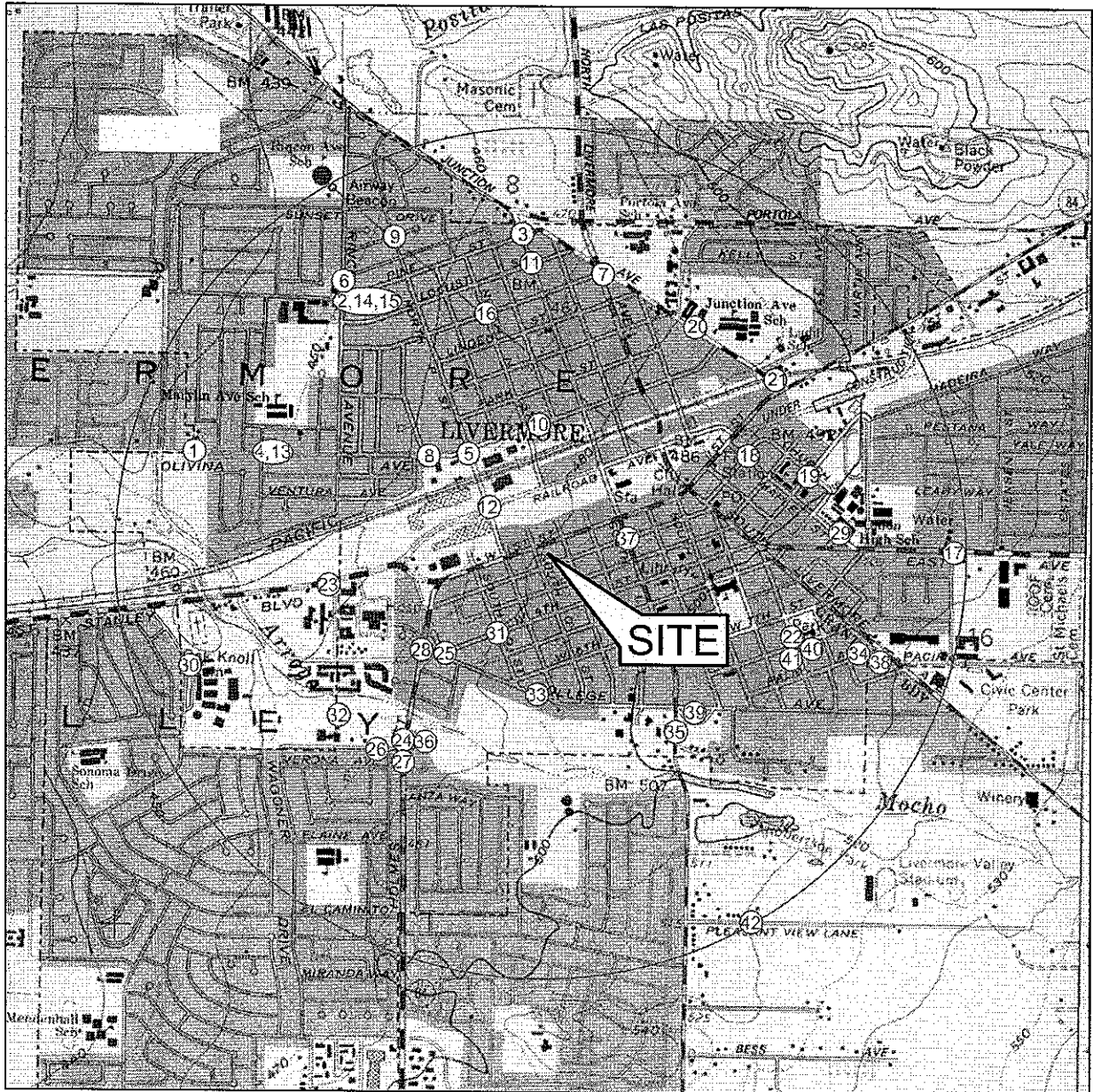
Attachment A – Sensitive Receptor Survey Data

Attachment B – Historic Groundwater Flow Directions

**Attachment A**

***Sensitive Receptor Survey Data***





0 1000 FT 2000 FT  
SCALE: 1 : 24,000



**FIGURE 1**  
**SITE LOCATOR SENSITIVE RECEPTOR**  
**MAP**

76 STATION NO. 4186  
1771 FIRST STREET  
LIVERMORE, CA

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



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

**Table 1**  
**One-Mile Agency Receptor Survey**  
**ConocoPhillips Station No.4186**  
**1771 First Street, Livermore, California**

DWR <sup>1</sup> Well No.	Address	City	State	Zip	Owner	Well Type	Distance from Site (miles)	Direction Relative to Site
1- 3S/2E-7R3	732 Olivina Avenue	Livermore	CA		California Water Service Co.	Public/Production Well	0.9	NW
2- 3S/2E- 8E80?	Pine St. at Rincon Ave.	Livermore	CA		City of Livermore		0.8	NW
3- 3S/2E-8F1?	Pine Street at Arroyo Road	Livermore	CA		California Water Service Co.	Municipal	0.7	NW
4- 3S/2E-8N2?	40' south of Olivina St., 200' west of Albatross	Livermore	CA		California Water Service Co.		0.8	NW
5- 3S/2E-2P1	sw of corner of Olivina and P st.	Livermore	CA		California Water Service Co.		0.3	NW
6- 3S/2E-8E1	951 Rincon Ave	Livermore	CA		City of Livermore		0.8	NW
7- 3S/2E-8H1	sw of North Livermore Avenue at Elm Street	Livermore	CA		California Water Service Co.	Municipal	0.7	NE
8- 3S/2E-8P1	se of Olivina Avenue at Adelle Street	Livermore	CA		California Water Service Co.		0.3	NW
9- 3S/2E-8F1?	sw of Juniper Street at N P Street	Livermore	CA		California Water Service Co.	Municipal	0.8	NW
10- 3S/2E-8K1	1830 Chestnut St.	Livermore	CA		PG&E	Cathodic protection	0.3	N
11- 3S/2E-8G2	L St. at Locust St.	Livermore	CA		PG&E	Cathodic protection	0.7	N
12- 3S/2E-8P2	sw of N P St. at Railroad Avenue	Livermore	CA		California Water Service Co.	Municipal	0.3	NW
13- 3S/2E-8N2	se of Olivina Avenue at Albatross Avenue	Livermore	CA		California Water Service Co.	Municipal	0.7	NW
14- 3S/2E-8E9	899 Rincon Avenue	Livermore	CA		ARCO Products, Co.	Recovery Well	0.8	NW
15- 3S/2E-8E10	899 Rincon Avenue	Livermore	CA		ARCO Products, Co.	Vapor Extraction	0.8	NW
16- 3S/2E-8G1	sw of Elm Street at N N Street	Livermore	CA		California Water Service Co.	Municipal	0.6	NW
17- 3S/2E-9Q1	north of East Avenue at Dolores Street	Livermore	CA		California Water Service Co.	Domestic/Municipal	1.0	E
18- 3S/2E-9P	Maple Street at Second Street	Livermore	CA		PG&E	Cathodic protection	0.5	SW
19- 3S/2E-9P1	2776 Fourth Street	Livermore	CA		California Water Service Co.	Municipal	0.7	NE
20- 3S/2E-9M1	403 Junction	Livermore	CA		Victor Baidi	Irrigation	0.6	NE
21- 3S/2E-9L1	south side of First St. at Junction Ave.	Livermore	CA		California Water Service Co.	Municipal	0.7	NE
22- 3S/2E-18C81	811 South H.	Livermore	CA		Leslie Holm		0.6	SE
23- 3S/2E-17C1	985 E. Stanley Blvd.	Livermore	CA		Fred Holdener		0.5	SW
24- 3S/2E-17E1	south side Mocho Street, 0.3 mi west of Vallecitos Road	Livermore	CA		W. J. Wagoner		0.8	SW
25- 3S/32E-17F1	0.2 mi west of Holmes St. at College Ave.	Livermore	CA		U.S. Veterans Hospital		0.6	SW
26- 3S/2E-17L2	0.2 mi west of Vallecitos Rd. on Mocho St. 10' south of Mocho	Livermore	CA		W. J. Wagoner		0.7	SW
27- 3S/2E-17P1?	0.45 mi south of Mocho St on east side of Vallecitos Rd.	Livermore	CA		Adele Colldeweih (formerly C.A. Smith)		1.0	SW
28- 3S/2E-17B1	Fourth St. at College Ave.	Livermore	CA		California Water Service Co.		0.4	SW
29- 3S/2E-17E5	Livermore High School, 600 Maple St.	Livermore	CA		Livermore School District	Domestic/ Irrigation	0.7-0.8	NE
30- 3S/2E-17E4	Granada High School, 400 Wall St.	Livermore	CA		Livermore Valley School District	Irrigation/Test Well	0.7-1.0	SW
31- 3S/2E-17B3	4th St. at Q St.	Livermore	CA		PG&E	Cathodic protection	0.3	SW
32- 3S/2E-17J?	1000' west of Arroyo Rd., 150' south of Arroyo Mocho Creek	Livermore	CA		R. A. Hansen	Irrigation	0.6	SE
33- 3S/2E-17?	1531 College Ave.	Livermore	CA		Don Benton	Domestic	0.4	SW
34- 3S/2E-16B1	Palm Ave. between Livermore and Almond	Livermore	CA		California Water Service Co.		0.6-0.8	SE
35- 3S/2E-16E1	954 South L. St.	Livermore	CA		Livermore Sanitarium		0.5	SE
36- 3S/2E-16E2	300' east of Arroyo Rd., 150' north of Mocho Creek	Livermore	CA		Livermore Sanitarium		0.6	SE
37- 3S/2E-16?	Ferrario Winery, 2nd St. and L St.	Livermore	CA		Ferrario Winery		0.2	E
38- 3S/2E-16B1	sw of Palm Avenue and South Livermore Avenue	Livermore	CA		California Water Service Co.		0.8	SE
39- 3S/2E-16E6	300' se of College St. at L St.	Livermore	CA		First Baptist Church	Irrigation	0.6	SE
40- 3S/2E-16C3	Eighth St. at S H St.	Livermore	CA		PG&E	Cathodic protection	0.6	SE
41- 3S/2E-16C1	787 S H Street	Livermore	CA		Ben F. Mingoa	Municipal	0.6	SE
42- 3S/2E-1681?	2486 Pleasant View Lane	Livermore	CA		George Sharp	Domestic	1.0	SE

**Table 1**  
 One-Mile Agency Receptor Survey  
 ConocoPhillips Station No.4186  
 1771 First Street, Livermore, California

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

DWR: Department of Water Resources

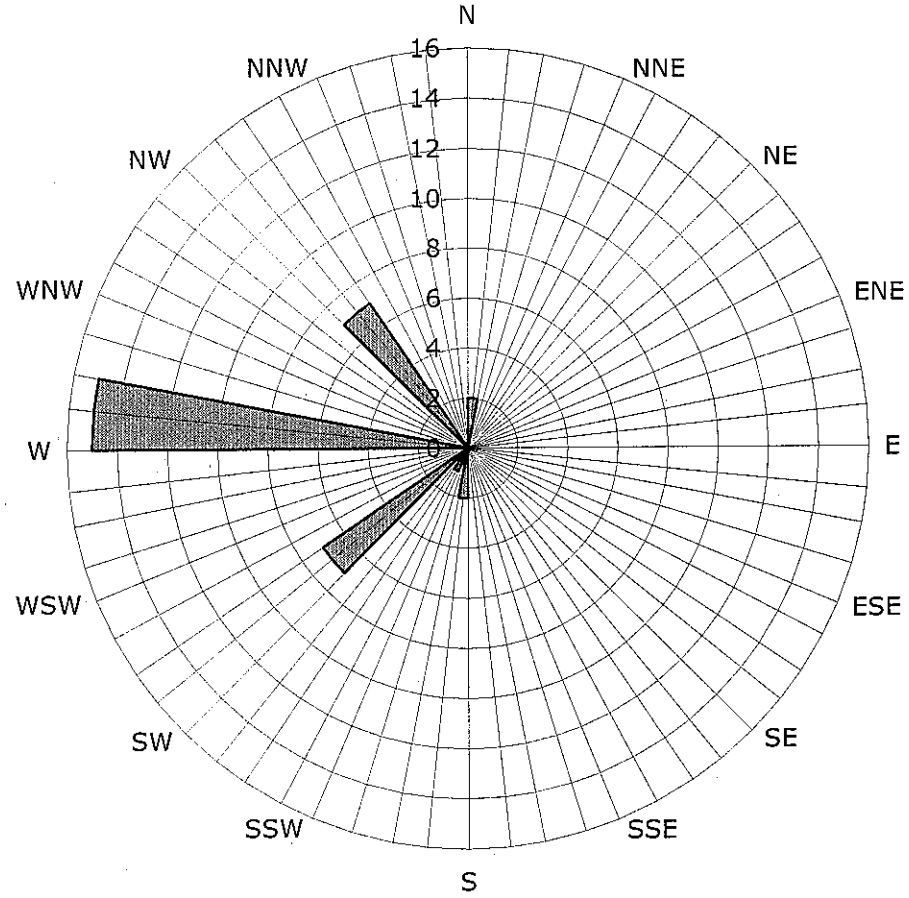
<sup>1</sup> Well Locations shown on Figure 1.

<sup>2</sup> Specific address cannot be located on map.

**Attachment B**

***Historic Groundwater Flow Directions***

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



**Legend**  
 Concentric circles represent  
 quarterly monitoring events  
 Fourth Quarter 2000 through  
 Second Quarter 2008  
 34 data points shown

■ Groundwater Flow Direction



21 Technology Drive  
Irvine, CA 92618

949.727.9336 PHONE  
949.727.7399 FAX

www.TRCSolutions.com

DATE: July 9, 2008

TO: ConocoPhillips Company  
76 Broadway  
Sacramento, California 95818

ATTN: MR. BILL BORGH

SITE: 76 STATION 4186  
1771 FIRST STREET  
LIVERMORE, CALIFORNIA

RE: QUARTERLY MONITORING REPORT  
APRIL THROUGH JUNE 2008

Dear Mr. Borgh:

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) 727-9336.

Sincerely,

TRC

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

Anju Farfan  
Groundwater Program Operations Manager

CC: Mr. Dennis Dettloff, Delta Consultants (1 copy)

Enclosures  
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**QUARTERLY MONITORING REPORT  
APRIL THROUGH JUNE 2008**

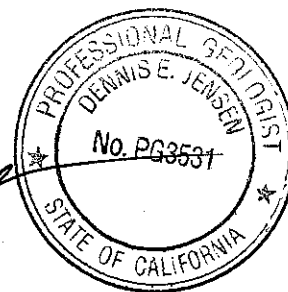
76 STATION 4186  
1771 First Street  
Livermore, California

Prepared For:

Mr. Bill Borgh  
CONOCOPHILLIPS COMPANY  
76 Broadway  
Sacramento, California 95818

By:

*Dennis E. Jensen*



Senior Project Geologist, Irvine Operations

Date: 7/9/08



## 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 1b: Additional Current Analytical Results</p> <p>Table 1c: Additional Current Analytical Results</p> <p>Table 1d: Additional Current Analytical Results</p> <p>Table 2: Historic Fluid Levels and Selected Analytical Results</p> <p>Table 2a: Additional Historic Analytical Results</p> <p>Table 2b: Additional Historic Analytical Results</p> <p>Table 2c: Additional Historic Analytical Results</p> <p>Table 2d: 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 - 06/12/08</p> <p>Groundwater Sampling Field Notes - 06/12/08</p> <p>Statement of Non-Completion - 06/12/08</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**  
**April 2008 through June 2008**  
**76 Station 4186**  
**1771 First Street**  
**Livermore, CA**

Project Coordinator: **Bill Borgh**  
Telephone: **916-558-7612**

Water Sampling Contractor: **TRC**  
Compiled by: **Christina Carrillo**

Date(s) of Gauging/Sampling Event: **06/12/08**

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**Sample Points**

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

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**Liquid Phase Hydrocarbons (LPH)**

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

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**Hydrogeologic Parameters**

Depth to groundwater (below TOC):      Minimum: **31.23 feet**      Maximum: **39.9 feet**  
Average groundwater elevation (relative to available local datum): **440.33 feet**  
Average change in groundwater elevation since previous event: **-4.48 feet**  
Interpreted groundwater gradient and flow direction:  
    Current event: **0.06 ft/ft, west**  
    Previous event: **0.05 ft/ft, northwest to southwest (03/17/08)**

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**Selected Laboratory Results**

Sample Points with detected **Benzene: 3**      Sample Points above MCL (1.0 µg/l): **3**  
    Maximum reported benzene concentration: **11 µg/l (U-6)**

Sample Points with **TPH-G by GC/MS 5**      Maximum: **2,100 µg/l (U-6)**  
Sample Points with **MTBE 8260B 5**      Maximum: **40 µg/l (U-7)**

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**Notes:**

Well U-3 did not recharge with enough water to collect all samples.  
U-1=Dry well, U-2=Dry well,

# 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)
DNA	=	Data Not Available

### 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 1 and 2

## 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		
Table 1a	Well/ Date	TBA	Ethanol (8260B)	Ethylene- dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	Antimony (total)	Antimony (dissolved)	Arsenic (total)	Arsenic (dissolved)	Barium (total)	Barium (dissolved)	Beryllium (total)	Beryllium (dissolved)
Table 1b	Well/ Date	Cadmium (total)	Cadmium (dissolved)	Calcium	Chromium VI	Chromium (total)	Chromium (dissolved)	Cobalt (total)	Cobalt (dissolved)	Copper (dissolved)	Copper (total)	Lead (dissolved)	Lead (total)	Magnesium (dissolved)	Manganese (dissolved)	Mercury (total)
Table 1c	Well/ Date	Mercury (dissolved)	Molyb- denum (total)	Molyb- denum (dissolved)	Nickel (total)	Nickel (dissolved)	Potassium	Selenium (total)	Selenium (dissolved)	Silver (total)	Silver (dissolved)	Sodium	Thallium (total)	Thallium (dissolved)	Vanadium (total)	Vanadium (dissolved)
Table 1d	Well/ Date	Zinc (dissolved)	Zinc (total)	Chloride	Fluoride	Nitrogen as Nitrate	Sulfate	TDS	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen	Pre-purge ORP	Post-purge ORP				

### 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		
Table 2a	Well/ Date	TBA	Ethanol (8260B)	Ethylene- dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	Antimony (total)	Antimony (dissolved)	Arsenic (total)	Arsenic (dissolved)	Barium (total)	Barium (dissolved)	Beryllium (total)	Beryllium (dissolved)
Table 2b	Well/ Date	Cadmium (total)	Cadmium (dissolved)	Calcium	Chromium VI	Chromium (total)	Chromium (dissolved)	Cobalt (total)	Cobalt (dissolved)	Copper (dissolved)	Copper (total)	Lead (dissolved)	Lead (total)	Magnesium (dissolved)	Manganese (dissolved)	Mercury (total)
Table 2c	Well/ Date	Mercury (dissolved)	Molyb- denum (total)	Molyb- denum (dissolved)	Nickel (total)	Nickel (dissolved)	Potassium	Selenium (total)	Selenium (dissolved)	Silver (total)	Silver (dissolved)	Sodium	Thallium (total)	Thallium (dissolved)	Vanadium (total)	Vanadium (dissolved)
Table 2d	Well/ Date	Zinc (dissolved)	Zinc (total)	Chloride	Fluoride	Nitrogen as Nitrate	Sulfate	TDS	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen	Pre-purge ORP	Post-purge ORP				

**Table 1**  
**CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**June 12, 2008**  
**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		<b>(Screen Interval in feet: 14.0-34.0)</b>												
06/12/08	478.27	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
U-2		<b>(Screen Interval in feet: 13.0-34.0)</b>												
06/12/08	477.44	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
U-3		<b>(Screen Interval in feet: 14.0-34.0)</b>												
06/12/08	478.46	31.23	0.00	447.23	-2.39	--	770	4.1	ND<1.0	ND<1.0	ND<2.0	--	27	
U-4		<b>(Screen Interval in feet: 35.0-45.0)</b>												
06/12/08	476.93	39.50	0.00	437.43	-5.32	--	71	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	7.5	
U-5		<b>(Screen Interval in feet: 37.0-47.0)</b>												
06/12/08	476.51	39.90	0.00	436.61	-5.62	--	55	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	28	
U-6		<b>(Screen Interval in feet: DNA)</b>												
06/12/08	478.38	38.16	0.00	440.22	-4.34	--	2100	11	0.79	27	2.3	--	1.1	
U-7		<b>(Screen Interval in feet: DNA)</b>												
06/12/08	478.74	38.56	0.00	440.18	-4.73	--	1200	1.9	ND<0.50	1.1	ND<1.0	--	40	

**Table 1 a**  
**ADDITIONAL CURRENT ANALYTICAL RESULTS**  
**76 Station 4186**

Date Sampled	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	Antimony (total)	Antimony (dissolved)	Arsenic (total)	Arsenic (dissolved)	Barium (total)	Barium (dissolved)	Beryllium (total)	Beryllium (dissolved)
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
<b>U-3</b>															
06/12/08	21000	ND<500	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<100	--	210	--	2800	--	ND<10	--
<b>U-4</b>															
06/12/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	2500	52	ND<10	ND<10
<b>U-5</b>															
06/12/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	830	370	ND<10	ND<10
<b>U-6</b>															
06/12/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	910	600	ND<10	ND<10
<b>U-7</b>															
06/12/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	520	490	ND<10	ND<10

**Table 1 b**  
**ADDITIONAL CURRENT ANALYTICAL RESULTS**  
**76 Station 4186**

Date Sampled	Cadmium (total)	Cadmium (dissolved)	Calcium	Chromium VI	Chromium (total)	Chromium (dissolved)	Cobalt (total)	Cobalt (dissolved)	Copper (dissolved)	Copper (total)	Lead (dissolved)	Lead (total)	Magnesium (dissolved)	Manganese (dissolved)	Mercury (total)
	(µg/l)	(mg/l)	(mg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(µg/l)	(mg/l)	(µg/l)	(µg/l)
U-3 06/12/08	ND<10	--	--	--	980	--	350	--	--	590	--	160	--	--	2.4
U-4 06/12/08	ND<10	ND<10	2.4	ND<2.0	610	ND<10	180	ND<50	ND<10	360	ND<50	53	7.7	720	2.5
U-5 06/12/08	ND<10	ND<10	66	ND<2.0	86	ND<10	ND<50	ND<50	ND<10	53	ND<50	ND<50	73	36	0.26
U-6 06/12/08	ND<10	ND<10	69	ND<2.0	ND<10	ND<10	ND<50	ND<50	ND<10	ND<10	ND<50	ND<50	110	3800	0.60
U-7 06/12/08	ND<10	ND<10	60	ND<2.0	10	ND<10	ND<50	ND<50	ND<10	ND<10	ND<50	ND<50	92	2400	ND<0.20

**Table 1 c**  
**ADDITIONAL CURRENT ANALYTICAL RESULTS**  
**76 Station 4186**

Date Sampled	Mercury (dissolved)	Molyb- denum (total)	Molyb- denum (dissolved)	Nickel (total)	Nickel (dissolved)	Potassium	Selenium (total)	Selenium (dissolved)	Silver (total)	Silver (dissolved)	Sodium	Thallium (total)	Thallium (dissolved)	Vanadium (total)	Vanadium (dissolved)
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
U-3 06/12/08	--	81	--	2800	--	--	ND<100	--	ND<10	--	--	ND<100	--	410	--
U-4 06/12/08	ND<0.20	ND<50	ND<50	2100	ND<10	ND<1.0	ND<100	ND<100	ND<10	ND<10	9.0	ND<100	ND<100	260	ND<10
U-5 06/12/08	ND<0.20	ND<50	ND<50	290	ND<10	1.9	ND<100	ND<100	ND<10	ND<10	26	ND<100	ND<100	44	ND<10
U-6 06/12/08	ND<0.20	ND<50	ND<50	47	ND<10	1.3	ND<100	ND<100	ND<10	ND<10	76	ND<100	ND<100	ND<10	ND<10
U-7 06/12/08	ND<0.20	ND<50	ND<50	38	ND<10	2.4	ND<100	ND<100	ND<10	ND<10	59	ND<100	ND<100	ND<10	ND<10



**Table 1 d**  
**ADDITIONAL CURRENT ANALYTICAL RESULTS**  
**76 Station 4186**

Date Sampled	Zinc (dissolved)	Zinc (total)	Chloride	Fluoride	Nitrogen as Nitrate	Sulfate	TDS	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen	Pre-purge ORP	Post-purge ORP
	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mV)	(mV)
U-2 06/12/08	--	--	--	--	--	--	--	--	8.32	177	--
U-3 06/12/08	--	970	--	--	--	--	--	0.11	1.30	-17	-40
U-4 06/12/08	ND<10	420	38	0.14	ND<0.44	30	610	1.26	4.00	185	188
U-5 06/12/08	ND<10	87	31	0.070	1.8	26	550	1.89	1.22	172	171
U-6 06/12/08	11	ND<50	190	0.11	0.45	27	860	1.10	2.08	-20	-26
U-7 06/12/08	11	ND<50	120	0.15	19	13	700	0.98	2.27	9	-11

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**July 1998 Through June 2008**  
**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)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>U-1 (Screen Interval in feet: 14.0-34.0)</b>														
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 June 2008**  
**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)	
<b>U-1 continued</b>														
04/15/04	478.27	25.33	0.00	452.94	-2.66	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
07/15/04	478.27	26.47	0.00	451.80	-1.14	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/08/04	478.27	31.17	0.00	447.10	-4.70	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
03/23/05	478.27	22.47	0.00	455.80	8.70	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
06/28/05	478.27	25.37	0.00	452.90	-2.90	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
09/23/05	478.27	29.15	0.00	449.12	-3.78	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/30/05	478.27	23.69	0.00	454.58	5.46	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
03/24/06	478.27	22.54	0.00	455.73	1.15	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.6	
06/26/06	478.27	24.99	0.00	453.28	-2.45	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
09/26/06	478.27	30.19	0.00	448.08	-5.20	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
11/21/06	478.27	28.27	0.00	450.00	1.92	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
03/26/07	478.27	26.92	0.00	451.35	1.35	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
06/27/07	478.27	30.78	0.00	447.49	-3.86	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
09/23/07	478.27	33.17	0.00	445.10	-2.39	--	--	--	--	--	--	--	--	Not enough water to sample
12/20/07	478.27	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
03/17/08	478.27	31.20	0.00	447.07	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
06/12/08	478.27	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
<b>U-2 (Screen Interval in feet: 13.0-34.0)</b>														
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	--	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**July 1998 Through June 2008**  
**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
<b>U-2 continued</b>														
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	--	
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	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**July 1998 Through June 2008**  
**76 Station 4186**

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>U-2 continued</b>														
03/24/06	477.44	22.34	0.00	455.10	1.99	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
06/26/06	477.44	23.15	0.00	454.29	-0.81	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
09/26/06	477.44	28.52	0.00	448.92	-5.37	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
11/21/06	477.44	25.85	0.00	451.59	2.67	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
03/26/07	477.44	25.62	0.00	451.82	0.23	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
06/27/07	477.44	28.37	0.00	449.07	-2.75	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
09/23/07	477.44	31.40	0.00	446.04	-3.03	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
12/20/07	477.44	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
03/17/08	477.44	30.45	0.00	446.99	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
06/12/08	477.44	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
<b>U-3 (Screen Interval in feet: 14.0-34.0)</b>														
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	--	
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	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**July 1998 Through June 2008**  
**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
<b>U-3 continued</b>														
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	
06/28/05	478.46	24.57	0.00	453.89	-2.93	--	6600	24	0.64	150	70	--	4700	
09/23/05	478.46	27.64	0.00	450.82	-3.07	--	6000	31	ND<25	150	ND<50	--	8900	
12/30/05	478.46	23.96	0.00	454.50	3.68	--	390	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	840	
03/24/06	478.46	22.52	0.00	455.94	1.44	--	2700	28	ND<5.0	57	120	--	690	
06/26/06	478.46	23.89	0.00	454.57	-1.37	--	2000	51	0.77	84	45	--	560	
09/26/06	478.46	28.08	0.00	450.38	-4.19	--	1200	20	ND<2.5	5.2	2.8	--	170	
11/21/06	478.46	27.23	0.00	451.23	0.85	--	1500	22	ND<5.0	5.8	ND<5.0	--	180	
03/26/07	478.46	25.27	0.00	453.19	1.96	--	3900	65	0.61	50	160	--	95	
06/27/07	478.46	27.51	0.00	450.95	-2.24	--	1400	29	ND<0.50	5.6	2.3	--	170	
09/23/07	478.46	31.70	0.00	446.76	-4.19	--	1600	16	0.61	2.7	3.7	--	88	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**July 1998 Through June 2008**  
**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
<b>U-3 continued</b>														
12/20/07	478.46	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
03/17/08	478.46	28.84	0.00	449.62	--	--	1400	17	ND<1.0	2.3	ND<2.0	--	150	
06/12/08	478.46	31.23	0.00	447.23	-2.39	--	770	4.1	ND<1.0	ND<1.0	ND<2.0	--	27	
<b>U-4 (Screen Interval in feet: 35.0-45.0)</b>														
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	
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	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**July 1998 Through June 2008**  
**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
<b>U-4 continued</b>														
06/26/06	476.93	27.98	0.00	448.95	-1.47	--	63	ND<0.50	ND<0.50	0.56	ND<1.0	--	11	
09/26/06	476.93	33.72	0.00	443.21	-5.74	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	13	
11/21/06	476.93	33.43	0.00	443.50	0.29	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
03/26/07	476.93	30.52	0.00	446.41	2.91	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
06/27/07	476.93	38.20	0.00	438.73	-7.68	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	0.78	
09/23/07	476.93	--	--	--	--	--	--	--	--	--	--	--	--	Car parked over well
12/20/07	476.93	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
03/17/08	476.93	34.18	0.00	442.75	--	--	71	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	4.9	
06/12/08	476.93	39.50	0.00	437.43	-5.32	--	71	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	7.5	
<b>U-5 (Screen Interval in feet: 37.0-47.0)</b>														
04/03/01	476.51	31.75	0.00	444.76	--	ND	--	ND	0.728	ND	0.993	54.8	55.4	
07/02/01	476.51	38.68	0.00	437.83	-6.93	ND	--	ND	ND	ND	ND	88	94	
10/08/01	476.51	46.31	0.00	430.20	-7.63	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	37	54	
01/03/02	476.51	36.55	0.00	439.96	9.76	ND<50	--	ND<0.50	0.59	ND<0.50	0.91	51	53	
04/05/02	476.51	37.83	0.00	438.68	-1.28	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	37	--	
07/02/02	476.51	36.92	0.00	439.59	0.91	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	43	
10/01/02	476.51	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible - truck parked over well
12/30/02	476.51	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible - car parked over well
05/02/03	476.51	31.55	0.00	444.96	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	18	
07/01/03	476.51	33.83	0.00	442.68	-2.28	--	73	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	46	
10/03/03	476.51	37.72	0.00	438.79	-3.89	--	58	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	44	
01/08/04	476.51	29.21	0.00	447.30	8.51	--	ND<50	ND<0.50	ND<0.50	1.1	2.7	--	17	



**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**July 1998 Through June 2008**  
**76 Station 4186**

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	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
<b>U-5 continued</b>														
04/15/04	476.51	30.05	0.00	446.46	-0.84	--	57	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	37	
07/15/04	476.51	35.15	0.00	441.36	-5.10	--	60	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	27	
12/08/04	476.51	35.33	0.00	441.18	-0.18	--	62	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	39	
03/23/05	476.51	25.45	0.00	451.06	9.88	--	ND<50	ND<0.50	ND<0.50	0.51	ND<1.0	--	4.5	
06/28/05	476.51	28.90	0.00	447.61	-3.45	--	73	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	40	
09/23/05	476.51	33.01	0.00	443.50	-4.11	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	53	
12/30/05	476.51	30.96	0.00	445.55	2.05	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	72	
03/24/06	476.51	22.42	0.00	454.09	8.54	--	2400	13	ND<5.0	48	58	--	54	
06/26/06	476.51	29.31	0.00	447.20	-6.89	--	72	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	82	
09/26/06	476.51	34.35	0.00	442.16	-5.04	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	51	
11/21/06	476.51	32.43	0.00	444.08	1.92	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	25	
03/26/07	476.51	31.20	0.00	445.31	1.23	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	29	
06/27/07	476.51	38.62	0.00	437.89	-7.42	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	30	
09/23/07	476.51	--	--	--	--	--	--	--	--	--	--	--	--	Car parked over well
12/20/07	476.51	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
03/17/08	476.51	34.28	0.00	442.23	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	25	
06/12/08	476.51	39.90	0.00	436.61	-5.62	--	55	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	28	
<b>U-6 (Screen Interval in feet: DNA)</b>														
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	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**July 1998 Through June 2008**  
**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)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>U-6 continued</b>														
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	
06/26/06	478.38	28.07	0.00	450.31	-2.13	--	5300	59	ND<5.0	520	300	--	ND<5.0	
09/26/06	478.38	33.31	0.00	445.07	-5.24	--	7400	78	ND<5.0	490	160	--	6.4	
11/21/06	478.38	31.65	0.00	446.73	1.66	--	1500	5.5	ND<0.50	37	2.4	--	1.4	
03/26/07	478.38	29.25	0.00	449.13	2.40	--	480	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	0.50	
06/27/07	478.38	35.09	0.00	443.29	-5.84	--	110	1.2	ND<0.50	1.3	ND<0.50	--	0.86	
09/23/07	478.38	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
12/20/07	478.38	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
03/17/08	478.38	33.82	0.00	444.56	--	--	580	1.5	ND<0.50	3.2	ND<1.0	--	ND<0.50	
06/12/08	478.38	38.16	0.00	440.22	-4.34	--	2100	11	0.79	27	2.3	--	1.1	
<b>U-7 (Screen Interval in feet: DNA)</b>														
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	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**July 1998 Through June 2008**  
**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)	
<b>U-7 continued</b>														
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	
11/21/06	478.74	31.66	0.00	447.08	1.81	--	3000	15	1.1	26	2.2	--	69	
03/26/07	478.74	29.82	0.00	448.92	1.84	--	2200	1.2	ND<0.50	ND<0.50	ND<0.50	--	70	
06/27/07	478.74	36.59	0.00	442.15	-6.77	--	590	5.8	ND<0.50	3.3	0.94	--	100	
09/23/07	478.74	44.05	0.00	434.69	-7.46	--	--	--	--	--	--	--	--	Not enough water to sample
12/20/07	478.74	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
03/17/08	478.74	33.83	0.00	444.91	--	--	1200	1.9	ND<0.50	0.82	ND<1.0	--	27	
06/12/08	478.74	38.56	0.00	440.18	-4.73	--	1200	1.9	ND<0.50	1.1	ND<1.0	--	40	

**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	Antimony (total)	Antimony (dissolved)	Arsenic (total)	Arsenic (dissolved)	Barium (total)	Barium (dissolved)	Beryllium (total)	Beryllium (dissolved)
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
<b>U-1</b>															
10/02/00	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/01/03	--	ND<500000	--	--	--	--	--	--	--	--	--	--	--	--	--
10/03/03	--	ND<500	--	--	--	--	--	--	--	--	--	--	--	--	--
01/08/04	--	ND<500	--	--	--	--	--	--	--	--	--	--	--	--	--
04/15/04	--	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--
07/15/04	--	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--
12/08/04	--	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--
03/23/05	--	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--
06/28/05	--	ND<1000	--	--	--	--	--	--	--	--	--	--	--	--	--
09/23/05	--	ND<1000	--	--	--	--	--	--	--	--	--	--	--	--	--
12/30/05	--	ND<250	--	--	--	--	--	--	--	--	--	--	--	--	--
03/24/06	--	ND<250	--	--	--	--	--	--	--	--	--	--	--	--	--
06/26/06	--	ND<250	--	--	--	--	--	--	--	--	--	--	--	--	--
09/26/06	--	ND<250	--	--	--	--	--	--	--	--	--	--	--	--	--
11/21/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--	--	--	--
03/26/07	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--	--	--	--
06/27/07	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--	--	--	--
03/17/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--	--	--	--
<b>U-2</b>															
10/02/00	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/01/03	--	ND<500000	--	--	--	--	--	--	--	--	--	--	--	--	--
10/03/03	--	ND<500	--	--	--	--	--	--	--	--	--	--	--	--	--
01/08/04	--	ND<500	--	--	--	--	--	--	--	--	--	--	--	--	--
04/15/04	--	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--
07/15/04	--	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--
12/08/04	--	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--

**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	Antimony (total)	Antimony (dissolved)	Arsenic (total)	Arsenic (dissolved)	Barium (total)	Barium (dissolved)	Beryllium (total)	Beryllium (dissolved)
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
<b>U-2 continued</b>															
03/23/05	--	730	--	--	--	--	--	--	--	--	--	--	--	--	--
06/28/05	--	ND<1000	--	--	--	--	--	--	--	--	--	--	--	--	--
09/23/05	--	ND<1000	--	--	--	--	--	--	--	--	--	--	--	--	--
12/30/05	--	ND<250	--	--	--	--	--	--	--	--	--	--	--	--	--
03/24/06	--	ND<250	--	--	--	--	--	--	--	--	--	--	--	--	--
06/26/06	--	ND<250	--	--	--	--	--	--	--	--	--	--	--	--	--
09/26/06	--	ND<250	--	--	--	--	--	--	--	--	--	--	--	--	--
11/21/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--	--	--	--
03/26/07	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--	--	--	--
06/27/07	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--	--	--	--
09/23/07	69	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--	--	--	--
03/17/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	--	58	--	2000	--	ND<10	--
<b>U-3</b>															
10/02/00	63000	--	--	--	--	--	--	--	--	--	--	--	--	--	--
01/08/01	49300	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
04/03/01	22200	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
07/02/01	27000	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
10/08/01	33000	ND<140000000	ND<290	ND<290	ND<290	ND<290	ND<290	--	--	--	--	--	--	--	--
01/03/02	17000	ND<50000000	ND<100	ND<100	ND<100	ND<100	ND<100	--	--	--	--	--	--	--	--
04/05/02	66000	ND<25000000	ND<100	ND<100	ND<100	ND<100	ND<100	--	--	--	--	--	--	--	--
07/02/02	47000	ND<13000000	ND<250	ND<250	ND<500	ND<250	ND<250	--	--	--	--	--	--	--	--
10/01/02	ND<50000	ND<25000000	ND<1000	ND<1000	ND<1000	ND<1000	ND<1000	--	--	--	--	--	--	--	--
12/30/02	23000	ND<10000000	ND<400	ND<400	ND<400	ND<400	ND<400	--	--	--	--	--	--	--	--
05/02/03	25000	ND<50000000	ND<200	ND<200	ND<200	ND<200	ND<200	--	--	--	--	--	--	--	--
07/01/03	32000	ND<10000000	ND<400	ND<400	ND<400	ND<400	ND<400	--	--	--	--	--	--	--	--
10/03/03	39000	ND<50000	ND<200	ND<200	ND<2.0	ND<200	ND<200	--	--	--	--	--	--	--	--

**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	Antimony (total)	Antimony (dissolved)	Arsenic (total)	Arsenic (dissolved)	Barium (total)	Barium (dissolved)	Beryllium (total)	Beryllium (dissolved)
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
<b>U-3 continued</b>															
01/08/04	ND<20000	ND<100000	ND<400	ND<400	ND<400	ND<400	ND<400	--	--	--	--	--	--	--	--
04/15/04	18000	ND<2500	ND<0.5	ND<0.5	ND<1.0	ND<0.5	ND<0.5	--	--	--	--	--	--	--	--
07/15/04	15000	ND<2500	ND<25	ND<25	ND<50	ND<25	ND<25	--	--	--	--	--	--	--	--
12/08/04	34000	ND<5000	ND<50	ND<50	ND<100	ND<50	ND<50	--	--	--	--	--	--	--	--
03/23/05	--	ND<5000	--	--	--	--	--	--	--	--	--	--	--	--	--
06/28/05	--	ND<1000	--	--	--	--	--	--	--	--	--	--	--	--	--
09/23/05	--	ND<50000	--	--	--	--	--	--	--	--	--	--	--	--	--
12/30/05	2000	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.58	--	--	--	--	--	--	--	--
03/24/06	--	ND<2500	--	--	--	--	--	--	--	--	--	--	--	--	--
06/26/06	18000	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--	--	--	--
09/26/06	--	ND<1200	--	--	--	--	--	--	--	--	--	--	--	--	--
11/21/06	33000	ND<2500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	--	--	--	--	--	--	--
03/26/07	13000	ND<250	ND<0.50	0.95	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--	--	--	--
06/27/07	20000	ND<250	ND<0.50	0.79	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--	--	--	--
09/23/07	19000	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--	--	--	--
03/17/08	15000	ND<500	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<100	ND<100	95	ND<50	1700	410	ND<10	ND<10
06/12/08	21000	ND<500	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<100	--	210	--	2800	--	ND<10	--
<b>U-4</b>															
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	--	--	--	--	--	--	--	--
07/01/03	--	ND<500000	--	--	--	--	--	--	--	--	--	--	--	--	--
10/03/03	--	ND<500	--	--	--	--	--	--	--	--	--	--	--	--	--
01/08/04	--	ND<500	--	--	--	--	--	--	--	--	--	--	--	--	--
04/15/04	--	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--
07/15/04	--	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--

**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	Antimony (total)	Antimony (dissolved)	Arsenic (total)	Arsenic (dissolved)	Barium (total)	Barium (dissolved)	Beryllium (total)	Beryllium (dissolved)
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
<b>U-4 continued</b>															
12/08/04	--	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--
03/23/05	--	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--
06/28/05	--	ND<1000	--	--	--	--	--	--	--	--	--	--	--	--	--
09/23/05	--	ND<1000	--	--	--	--	--	--	--	--	--	--	--	--	--
12/30/05	--	ND<250	--	--	--	--	--	--	--	--	--	--	--	--	--
03/24/06	--	ND<250	--	--	--	--	--	--	--	--	--	--	--	--	--
06/26/06	--	ND<250	--	--	--	--	--	--	--	--	--	--	--	--	--
09/26/06	--	ND<250	--	--	--	--	--	--	--	--	--	--	--	--	--
11/21/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--	--	--	--
03/26/07	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--	--	--	--
06/27/07	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--	--	--	--
03/17/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	2000	470	ND<10	ND<10
06/12/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	2500	52	ND<10	ND<10
<b>U-5</b>															
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	--	--	--	--	--	--	--	--
07/01/03	--	ND<500	--	--	--	--	--	--	--	--	--	--	--	--	--
10/03/03	--	ND<500	--	--	--	--	--	--	--	--	--	--	--	--	--
01/08/04	--	ND<500	--	--	--	--	--	--	--	--	--	--	--	--	--
04/15/04	--	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--
07/15/04	--	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--
12/08/04	--	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--
03/23/05	--	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--
06/28/05	--	ND<1000	--	--	--	--	--	--	--	--	--	--	--	--	--

**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	Antimony (total)	Antimony (dissolved)	Arsenic (total)	Arsenic (dissolved)	Barium (total)	Barium (dissolved)	Beryllium (total)	Beryllium (dissolved)
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
<b>U-5 continued</b>															
09/23/05	--	ND<1000	--	--	--	--	--	--	--	--	--	--	--	--	--
12/30/05	--	ND<250	--	--	--	--	--	--	--	--	--	--	--	--	--
03/24/06	--	ND<2500	--	--	--	--	--	--	--	--	--	--	--	--	--
06/26/06	--	ND<250	--	--	--	--	--	--	--	--	--	--	--	--	--
09/26/06	--	ND<250	--	--	--	--	--	--	--	--	--	--	--	--	--
11/21/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--	--	--	--
03/26/07	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--	--	--	--
06/27/07	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--	--	--	--
03/17/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	1300	390	ND<10	ND<10
06/12/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	830	370	ND<10	ND<10
<b>U-6</b>															
01/03/02	ND<200	ND<5000000	ND<10	ND<10	ND<10	ND<10	ND<10	--	--	--	--	--	--	--	--
07/01/03	--	ND<500000	--	--	--	--	--	--	--	--	--	--	--	--	--
10/03/03	--	ND<100000	--	--	--	--	--	--	--	--	--	--	--	--	--
01/08/04	--	ND<5000	--	--	--	--	--	--	--	--	--	--	--	--	--
04/15/04	--	ND<250	--	--	--	--	--	--	--	--	--	--	--	--	--
07/15/04	--	ND<250	--	--	--	--	--	--	--	--	--	--	--	--	--
12/08/04	--	ND<250	--	--	--	--	--	--	--	--	--	--	--	--	--
03/23/05	--	ND<50	--	--	--	--	--	--	--	--	--	--	--	--	--
06/28/05	--	ND<1000	--	--	--	--	--	--	--	--	--	--	--	--	--
09/23/05	--	ND<50000	--	--	--	--	--	--	--	--	--	--	--	--	--
12/30/05	--	ND<250	--	--	--	--	--	--	--	--	--	--	--	--	--
03/24/06	--	ND<2500	--	--	--	--	--	--	--	--	--	--	--	--	--
06/26/06	--	ND<2500	--	--	--	--	--	--	--	--	--	--	--	--	--
09/26/06	--	ND<2500	--	--	--	--	--	--	--	--	--	--	--	--	--
11/21/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--	--	--	--



**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	Antimony (total)	Antimony (dissolved)	Arsenic (total)	Arsenic (dissolved)	Barium (total)	Barium (dissolved)	Beryllium (total)	Beryllium (dissolved)
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
<b>U-6 continued</b>															
03/26/07	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--	--	--	--
06/27/07	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--	--	--	--
03/17/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	520	330	ND<10	ND<10
06/12/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	910	600	ND<10	ND<10
<b>U-7</b>															
01/03/02	30	ND<500000	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	--	--	--	--	--
07/01/03	--	ND<500000	--	--	--	--	--	--	--	--	--	--	--	--	--
10/03/03	--	ND<5000	--	--	--	--	--	--	--	--	--	--	--	--	--
01/08/04	--	ND<1000	--	--	--	--	--	--	--	--	--	--	--	--	--
04/15/04	--	ND<100	--	--	--	--	--	--	--	--	--	--	--	--	--
07/15/04	--	ND<100	--	--	--	--	--	--	--	--	--	--	--	--	--
12/08/04	--	ND<100	--	--	--	--	--	--	--	--	--	--	--	--	--
03/23/05	--	ND<100	--	--	--	--	--	--	--	--	--	--	--	--	--
06/28/05	--	ND<1000	--	--	--	--	--	--	--	--	--	--	--	--	--
09/23/05	--	ND<1000	--	--	--	--	--	--	--	--	--	--	--	--	--
12/30/05	--	ND<250	--	--	--	--	--	--	--	--	--	--	--	--	--
03/24/06	--	ND<250	--	--	--	--	--	--	--	--	--	--	--	--	--
06/26/06	--	ND<250	--	--	--	--	--	--	--	--	--	--	--	--	--
09/26/06	--	ND<250	--	--	--	--	--	--	--	--	--	--	--	--	--
11/21/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--	--	--	--
03/26/07	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--	--	--	--
06/27/07	14	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--	--	--	--
03/17/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	670	510	ND<10	ND<10
06/12/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	520	490	ND<10	ND<10

**Table 2 b**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 4186**

Date Sampled	Cadmium (total)	Cadmium (dissolved)	Calcium (mg/l)	Chromium VI (µg/l)	Chromium (total) (µg/l)	Chromium (dissolved) (µg/l)	Cobalt (total) (µg/l)	Cobalt (dissolved) (µg/l)	Copper (dissolved) (µg/l)	Copper (total) (µg/l)	Lead (dissolved) (mg/l)	Lead (total) (µg/l)	Magnesium (dissolved) (mg/l)	Manganese (dissolved) (µg/l)	Mercury (total) (µg/l)
<b>U-1</b>															
03/17/08	--	--	--	ND<2.0	--	--	--	--	--	--	--	--	--	--	--
<b>U-2</b>															
03/17/08	ND<10	--	--	ND<2.0	540	--	150	--	--	330	--	71	--	--	1.7
<b>U-3</b>															
03/17/08	ND<10	ND<0.01	59	ND<2.0	450	ND<10	140	ND<50	ND<10	240	ND<50	65	94	2600	0.84
06/12/08	ND<10	--	--	--	980	--	350	--	--	590	--	160	--	--	2.4
<b>U-4</b>															
03/17/08	ND<10	ND<0.01	68	ND<2.0	410	ND<10	140	ND<50	ND<10	250	ND<50	ND<50	88	2000	ND<0.20
06/12/08	ND<10	ND<10	2.4	ND<2.0	610	ND<10	180	ND<50	ND<10	360	ND<50	53	7.7	720	2.5
<b>U-5</b>															
03/17/08	ND<10	ND<0.01	67	ND<2.0	110	--	ND<50	ND<50	ND<10	72	ND<50	ND<50	89	76	0.55
06/12/08	ND<10	ND<10	66	ND<2.0	86	ND<10	ND<50	ND<50	ND<10	53	ND<50	ND<50	73	36	0.26
<b>U-6</b>															
03/17/08	ND<10	ND<0.01	73	ND<2.0	34	ND<10	ND<50	ND<50	ND<10	17	ND<50	ND<50	120	4300	ND<0.20
06/12/08	ND<10	ND<10	69	ND<2.0	ND<10	ND<10	ND<50	ND<50	ND<10	ND<10	ND<50	ND<50	110	3800	0.60
<b>U-7</b>															
03/17/08	ND<10	ND<0.01	68	ND<2.0	28	ND<10	ND<50	ND<50	ND<10	16	ND<50	ND<50	110	2300	ND<0.20
06/12/08	ND<10	ND<10	60	ND<2.0	10	ND<10	ND<50	ND<50	ND<10	ND<10	ND<50	ND<50	92	2400	ND<0.20

**Table 2 c**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 4186**

Date Sampled	Mercury (dissolved)	Molybdenum (total)	Molybdenum (dissolved)	Nickel (total)	Nickel (dissolved)	Potassium	Selenium (total)	Selenium (dissolved)	Silver (total)	Silver (dissolved)	Sodium	Thallium (total)	Thallium (dissolved)	Vanadium (total)	Vanadium (dissolved)
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
<b>U-2</b>															
03/17/08	--	ND<50	--	1500	--	--	ND<100	--	ND<10	--	--	ND<100	--	240	--
<b>U-3</b>															
03/17/08	ND<0.20	ND<50	ND<50	1200	ND<10	1.6	ND<100	ND<100	ND<10	ND<10	41	ND<100	ND<100	190	ND<10
06/12/08	--	81	--	2800	--	--	ND<100	--	ND<10	--	--	ND<100	--	410	--
<b>U-4</b>															
03/17/08	ND<0.20	ND<50	ND<50	1300	ND<10	2.3	ND<100	ND<100	ND<10	ND<10	35	ND<100	ND<100	190	ND<10
06/12/08	ND<0.20	ND<50	ND<50	2100	ND<10	ND<1.0	ND<100	ND<100	ND<10	ND<10	9.0	ND<100	ND<100	260	ND<10
<b>U-5</b>															
03/17/08	ND<0.20	ND<50	ND<50	360	ND<10	2.4	ND<100	ND<100	ND<10	ND<10	49	ND<100	ND<100	60	ND<100
06/12/08	ND<0.20	ND<50	ND<50	290	ND<10	1.9	ND<100	ND<100	ND<10	ND<10	26	ND<100	ND<100	44	ND<10
<b>U-6</b>															
03/17/08	ND<0.20	ND<50	ND<50	91	ND<10	1.0	ND<100	ND<100	ND<10	ND<10	90	ND<100	ND<100	15	ND<10
06/12/08	ND<0.20	ND<50	ND<50	47	ND<10	1.3	ND<100	ND<100	ND<10	ND<10	76	ND<100	ND<100	ND<10	ND<10
<b>U-7</b>															
03/17/08	ND<0.20	ND<50	ND<50	79	ND<10	2.4	ND<100	ND<100	ND<10	ND<10	68	ND<100	ND<100	12	ND<10
06/12/08	ND<0.20	ND<50	ND<50	38	ND<10	2.4	ND<100	ND<100	ND<10	ND<10	59	ND<100	ND<100	ND<10	ND<10

**Table 2 d**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 4186**

Date Sampled	Zinc (dissolved)	Zinc (total)	Chloride	Fluoride	Nitrogen as Nitrate	Sulfate	TDS	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen	Pre-purge ORP	Post-purge ORP
	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mV)	(mV)
<b>U-1</b>											
12/30/02	--	--	--	--	--	--	--	0.60	--	--	91
05/02/03	--	--	--	--	--	--	--	0.50	--	--	90
07/01/03	--	--	--	--	--	--	--	0.60	--	--	110
10/03/03	--	--	--	--	--	--	--	3.79	--	--	329
01/08/04	--	--	--	--	--	--	--	12.36	--	--	184
04/15/04	--	--	--	--	--	--	--	10.56	--	--	213
07/15/04	--	--	--	--	--	--	--	6.62	--	--	251
12/08/04	--	--	--	--	--	--	--	2.66	--	--	68
03/23/05	--	--	--	--	--	--	--	3.12	--	--	091
06/28/05	--	--	--	--	--	--	--	8.84	--	--	153
09/23/05	--	--	--	--	--	--	--	2.26	--	--	187
12/30/05	--	--	--	--	--	--	--	7.74	--	--	159
03/24/06	--	--	--	--	--	--	--	--	3.88	036	--
06/26/06	--	--	--	--	--	--	--	--	5.50	008	--
09/26/06	--	--	--	--	--	--	--	4.24	4.66	203	200
11/21/06	--	--	--	--	--	--	--	4.24	4.56	1.97	2.00
03/26/07	--	--	--	--	--	--	--	6.58	6.98	107	102
06/27/07	--	--	--	--	--	--	--	4.98	4.85	20	34
03/17/08	--	--	--	--	--	--	--	3.12	2.43	151	153
<b>U-2</b>											
10/01/02	--	--	--	--	--	--	--	1.40	--	--	--
12/30/02	--	--	--	--	--	--	--	2.80	--	--	120
05/02/03	--	--	--	--	--	--	--	150.00	--	--	120
07/01/03	--	--	--	--	--	--	--	1.20	--	--	110
10/03/03	--	--	--	--	--	--	--	5.61	--	--	321
01/08/04	--	--	--	--	--	--	--	12.11	--	--	-6

**Table 2 d**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 4186**

Date Sampled	Zinc (dissolved) (µg/l)	Zinc (total) (µg/l)	Chloride (mg/l)	Fluoride (mg/l)	Nitrogen as Nitrate (mg/l)	Sulfate (mg/l)	TDS (mg/l)	Post-purge Dissolved Oxygen (mg/l)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)	Post-purge ORP (mV)
<b>U-2 continued</b>											
04/15/04	--	--	--	--	--	--	--	11.39	--	--	259
07/15/04	--	--	--	--	--	--	--	7.46	--	--	238
12/08/04	--	--	--	--	--	--	--	3.57	--	--	132
03/23/05	--	--	--	--	--	--	--	4.57	--	--	024
06/28/05	--	--	--	--	--	--	--	8.08	--	--	230
09/23/05	--	--	--	--	--	--	--	5.47	--	--	188
12/30/05	--	--	--	--	--	--	--	8.33	--	--	177
03/24/06	--	--	--	--	--	--	--	--	6.20	-004	--
06/26/06	--	--	--	--	--	--	--	--	4.51	040	--
09/26/06	--	--	--	--	--	--	--	3.70	3.49	-31	-17
11/21/06	--	--	--	--	--	--	--	3.70	3.45	-29	-20
03/26/07	--	--	--	--	--	--	--	10.05	10.31	90	95
06/27/07	--	--	--	--	--	--	--	3.87	4.21	-63	-41
09/23/07	--	--	--	--	--	--	--	--	--	-133	-48
03/17/08	--	590	--	--	--	--	600	3.31	3.13	154	153
06/12/08	--	--	--	--	--	--	--	--	8.32	177	--
<b>U-3</b>											
10/01/02	--	--	--	--	--	--	--	0.50	--	--	-47
12/30/02	--	--	--	--	--	--	--	0.20	--	--	106
05/02/03	--	--	--	--	--	--	--	0.50	--	--	85
07/01/03	--	--	--	--	--	--	--	0.50	--	--	90
10/03/03	--	--	--	--	--	--	--	3.80	--	--	-27
01/08/04	--	--	--	--	--	--	--	12.82	--	--	133
04/15/04	--	--	--	--	--	--	--	3.11	--	--	24
07/15/04	--	--	--	--	--	--	--	1.90	--	--	53
12/08/04	--	--	--	--	--	--	--	1.30	--	--	-81

**Table 2 d**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 4186**

Date Sampled	Zinc (dissolved)	Zinc (total)	Chloride	Fluoride	Nitrogen as Nitrate	Sulfate	TDS	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen	Pre-purge ORP	Post-purge ORP
	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mV)	(mV)
<b>U-3 continued</b>											
03/23/05	--	--	--	--	--	--	--	0.52	--	--	-087
06/28/05	--	--	--	--	--	--	--	1.47	--	--	-151
09/23/05	--	--	--	--	--	--	--	1.40	--	--	-80
12/30/05	--	--	--	--	--	--	--	1.45	--	--	-068
03/24/06	--	--	--	--	--	--	--	--	.79	003	--
06/26/06	--	--	--	--	--	--	--	--	3.56	015	--
09/26/06	--	--	--	--	--	--	--	1.06	1.10	-72	-95
11/21/06	--	--	--	--	--	--	--	1.04	1.10	-83	-96
03/26/07	--	--	--	--	--	--	--	7.08	6.99	78	68
06/27/07	--	--	--	--	--	--	--	4.89	4.79	-79	-82
09/23/07	--	--	--	--	--	--	--	--	--	-114	-88
03/17/08	ND<10	360	14	0.073	ND<0.44	ND<1.0	530	2.88	1.96	-5	-33
06/12/08	--	970	--	--	--	--	--	0.11	1.30	-17	-40
<b>U-4</b>											
10/01/02	--	--	--	--	--	--	--	1.00	--	--	83
12/30/02	--	--	--	--	--	--	--	0.40	--	--	126
05/02/03	--	--	--	--	--	--	--	0.70	--	--	120
07/01/03	--	--	--	--	--	--	--	0.60	--	--	130
10/03/03	--	--	--	--	--	--	--	2.06	--	--	3.05
01/08/04	--	--	--	--	--	--	--	11.90	--	--	76
04/15/04	--	--	--	--	--	--	--	3.30	--	--	116
07/15/04	--	--	--	--	--	--	--	2.50	--	--	32
12/08/04	--	--	--	--	--	--	--	2.09	--	--	47
03/23/05	--	--	--	--	--	--	--	0.04	--	--	021
06/28/05	--	--	--	--	--	--	--	2.24	--	--	120
09/23/05	--	--	--	--	--	--	--	3.01	--	--	176

**Table 2 d**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 4186**

Date Sampled	Zinc (dissolved) (µg/l)	Zinc (total) (µg/l)	Chloride (mg/l)	Fluoride (mg/l)	Nitrogen as Nitrate (mg/l)	Sulfate (mg/l)	TDS (mg/l)	Post-purge Dissolved Oxygen (mg/l)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)	Post-purge ORP (mV)
<b>U-4 continued</b>											
12/30/05	--	--	--	--	--	--	--	1.96	--	--	175
03/24/06	--	--	--	--	--	--	--	--	1.48	015	--
06/26/06	--	--	--	--	--	--	--	--	1.31	031	--
09/26/06	--	--	--	--	--	--	--	1.38	1.23	-54	-7
11/21/06	--	--	--	--	--	--	--	1.38	1.13	-60	-10
03/26/07	--	--	--	--	--	--	--	7.09	7.28	14	25
06/27/07	--	--	--	--	--	--	--	2.82	2.62	82	73
03/17/08	ND<10	340	37	0.12	0.61	29	540	2.47	2.71	153	150
06/12/08	ND<10	420	38	0.14	ND<0.44	30	610	1.26	4.00	185	188
<b>U-5</b>											
05/02/03	--	--	--	--	--	--	--	0.60	--	--	120
07/01/03	--	--	--	--	--	--	--	0.90	--	--	145
10/03/03	--	--	--	--	--	--	--	2.21	--	--	3.13
01/08/04	--	--	--	--	--	--	--	11.27	--	--	104
04/15/04	--	--	--	--	--	--	--	3.35	--	--	65
07/15/04	--	--	--	--	--	--	--	2.87	--	--	66
12/08/04	--	--	--	--	--	--	--	1.67	--	--	102
03/23/05	--	--	--	--	--	--	--	0.75	--	--	131
06/28/05	--	--	--	--	--	--	--	2.29	--	--	103
09/23/05	--	--	--	--	--	--	--	2.05	--	--	172
12/30/05	--	--	--	--	--	--	--	1.39	--	--	171
03/24/06	--	--	--	--	--	--	--	--	.97	011	--
06/26/06	--	--	--	--	--	--	--	--	7.23	091	--
09/26/06	--	--	--	--	--	--	--	1.19	0.80	44	44
11/21/06	--	--	--	--	--	--	--	1.12	0.79	41	47
03/26/07	--	--	--	--	--	--	--	3.20	3.60	31	52

**Table 2 d**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 4186**

Date Sampled	Zinc (dissolved)	Zinc (total)	Chloride	Fluoride	Nitrogen as Nitrate	Sulfate	TDS	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen	Pre-purge ORP	Post-purge ORP
	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mV)	(mV)
<b>U-5 continued</b>											
06/27/07	--	--	--	--	--	--	--	2.01	1.67	66	58
03/17/08	ND<10	120	32	0.086	3.8	31	530	2.91	1.98	151	156
06/12/08	ND<10	87	31	0.070	1.8	26	550	1.89	1.22	172	171
<b>U-6</b>											
10/01/02	--	--	--	--	--	--	--	0.90	--	--	--
12/30/02	--	--	--	--	--	--	--	0.20	--	--	88
05/02/03	--	--	--	--	--	--	--	0.90	--	--	145
07/01/03	--	--	--	--	--	--	--	0.70	--	--	120
10/03/03	--	--	--	--	--	--	--	2.26	--	--	12
01/08/04	--	--	--	--	--	--	--	11.95	--	--	-37
04/15/04	--	--	--	--	--	--	--	3.47	--	--	-20
07/15/04	--	--	--	--	--	--	--	3.25	--	--	-43
12/08/04	--	--	--	--	--	--	--	0.94	--	--	-91
03/23/05	--	--	--	--	--	--	--	0.55	--	--	-077
06/28/05	--	--	--	--	--	--	--	0.86	--	--	-129
09/23/05	--	--	--	--	--	--	--	1.97	--	--	-82
12/30/05	--	--	--	--	--	--	--	1.01	--	--	-66
03/24/06	--	--	--	--	--	--	--	--	1.25	011	--
06/26/06	--	--	--	--	--	--	--	--	5.48	015	--
09/26/06	--	--	--	--	--	--	--	6.97	7.05	-67	-69
11/21/06	--	--	--	--	--	--	--	0.83	1.05	-65	-69
03/26/07	--	--	--	--	--	--	--	6.40	6.26	15	9
06/27/07	--	--	--	--	--	--	--	3.51	3.20	-64	-54
03/17/08	ND<10	79	160	0.066	ND<0.44	51	860	1.19	1.87	101	26
06/12/08	11	ND<50	190	0.11	0.45	27	860	1.10	2.08	-20	-26

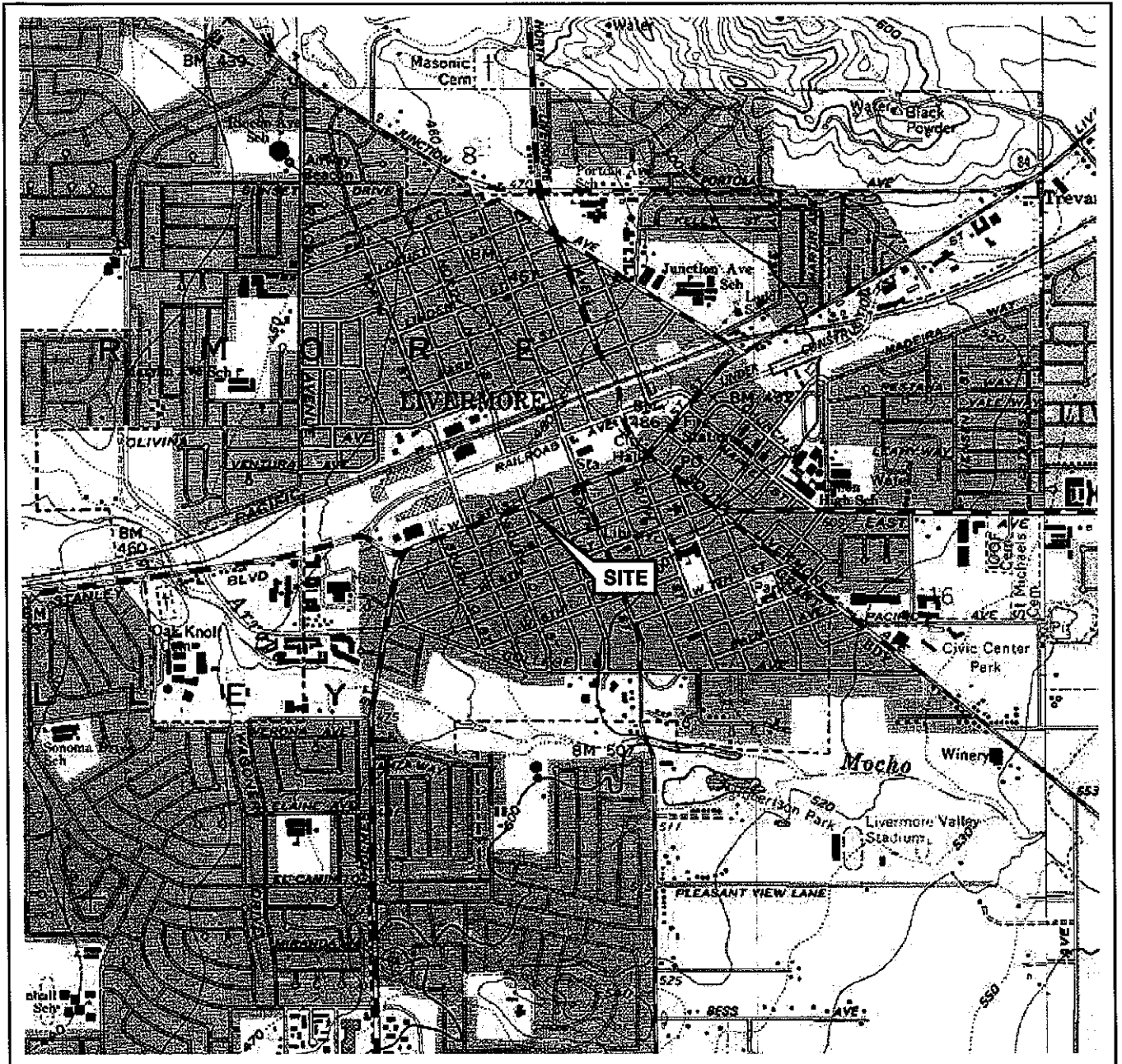


**Table 2 d**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 4186**

Date Sampled	Zinc (dissolved)	Zinc (total)	Chloride	Fluoride	Nitrogen as Nitrate	Sulfate	TDS	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen	Pre-purge ORP	Post-purge ORP
	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mV)	(mV)
<b>U-7 continued</b>											
10/01/02	--	--	--	--	--	--	--	1.80	--	--	-60
12/30/02	--	--	--	--	--	--	--	0.10	--	--	121
05/02/03	--	--	--	--	--	--	--	0.40	--	--	105
07/01/03	--	--	--	--	--	--	--	0.50	--	--	95
10/03/03	--	--	--	--	--	--	--	2.91	--	--	-21
01/08/04	--	--	--	--	--	--	--	11.85	--	--	-51
04/15/04	--	--	--	--	--	--	--	4.68	--	--	-16
07/15/04	--	--	--	--	--	--	--	2.55	--	--	-52
12/08/04	--	--	--	--	--	--	--	1.20	--	--	-88
03/23/05	--	--	--	--	--	--	--	0.21	--	--	-088
06/28/05	--	--	--	--	--	--	--	1.32	--	--	-160
09/23/05	--	--	--	--	--	--	--	2.25	--	--	108
12/30/05	--	--	--	--	--	--	--	1.12	--	--	105
03/24/06	--	--	--	--	--	--	--	--	.99	008	--
06/26/06	--	--	--	--	--	--	--	--	1.27	025	--
09/26/06	--	--	--	--	--	--	--	0.78	1.02	-47	-63
11/21/06	--	--	--	--	--	--	--	0.88	0.98	-43	-59
03/26/07	--	--	--	--	--	--	--	5.85	6.00	14	8
06/27/07	--	--	--	--	--	--	--	2.98	2.60	-90	-102
03/17/08	ND<10	51	91	0.077	ND<0.44	7.0	640	3.06	2.86	137	120
06/12/08	11	ND<50	120	0.15	19	13	700	0.98	2.27	9	-11

# FIGURES

PS-1:1 L:\DQMS VICINITY M A P S\4186\m.DWG Nov 15, 2007 - 2:19pm cwong



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



PROJECT: 154771


FACILITY:

76 STATION 4186  
1771 FIRST STREET  
LIVERMORE, CALIFORNIA


VICINITY MAP

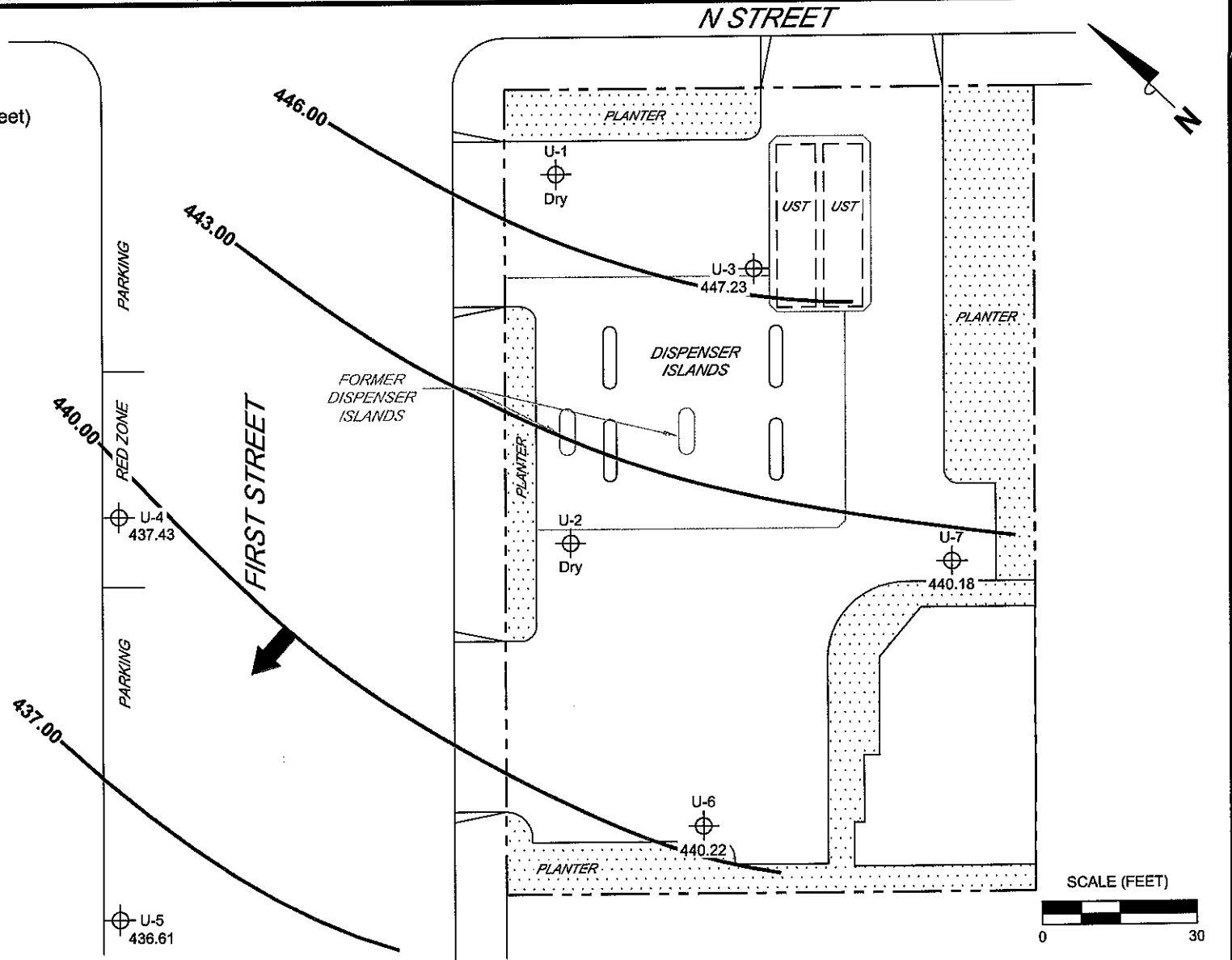
FIGURE 1

**LEGEND**

U-7  Monitoring Well with Groundwater Elevation (feet)

446.00  Groundwater Elevation Contour

 General Direction of Groundwater Flow



**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.




PROJECT: 154771

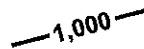
FACILITY:  
76 STATION 4186  
1771 FIRST STREET  
LIVERMORE, CALIFORNIA

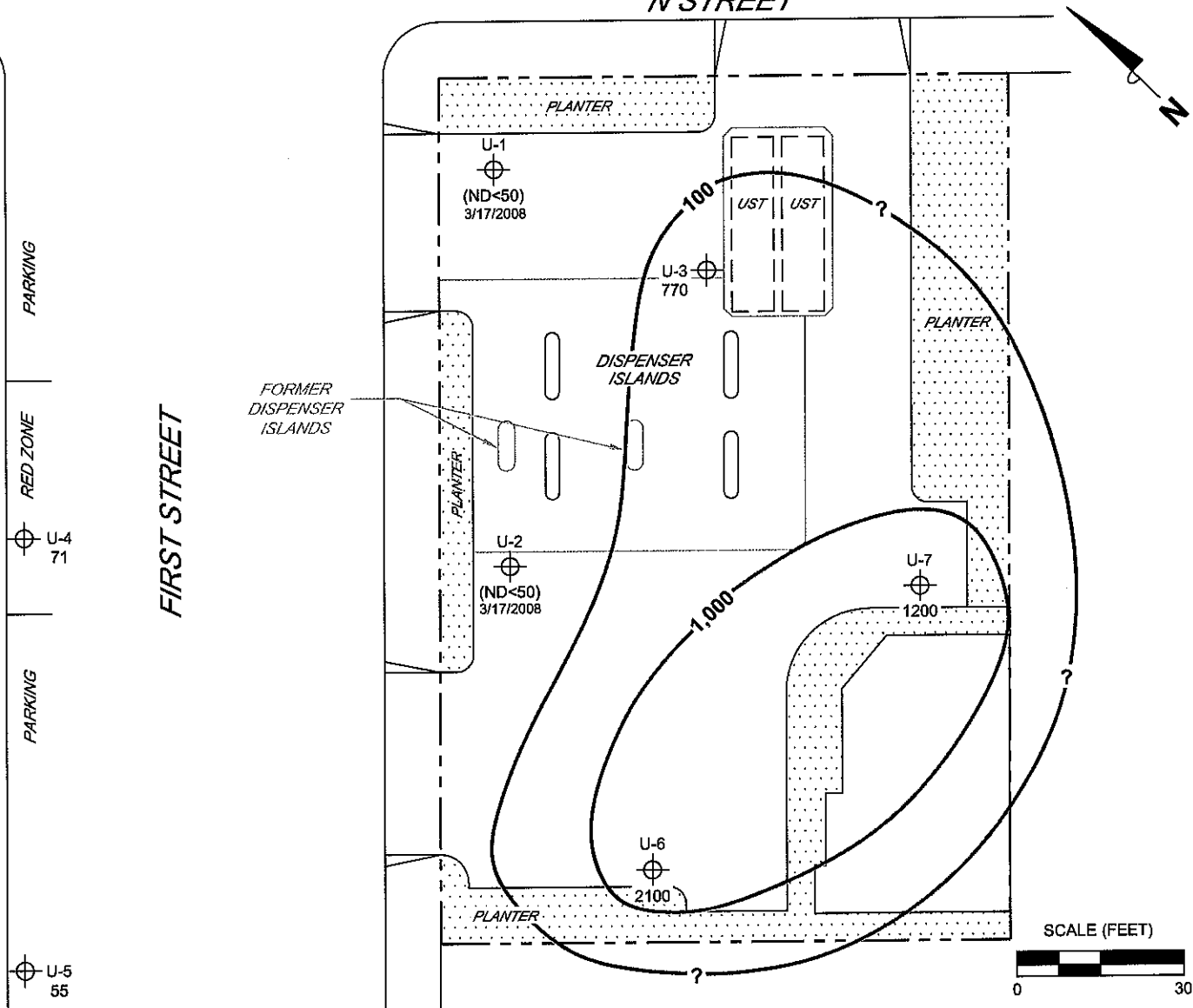
**GROUNDWATER ELEVATION  
CONTOUR MAP  
June 12, 2008**

**FIGURE 2**

**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)



**NOTES:**

Contour lines are interpretive and based on laboratory analysis results 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.  
 ( ) = representative historical value. UST = underground storage tank.




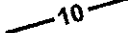
PROJECT: 154771

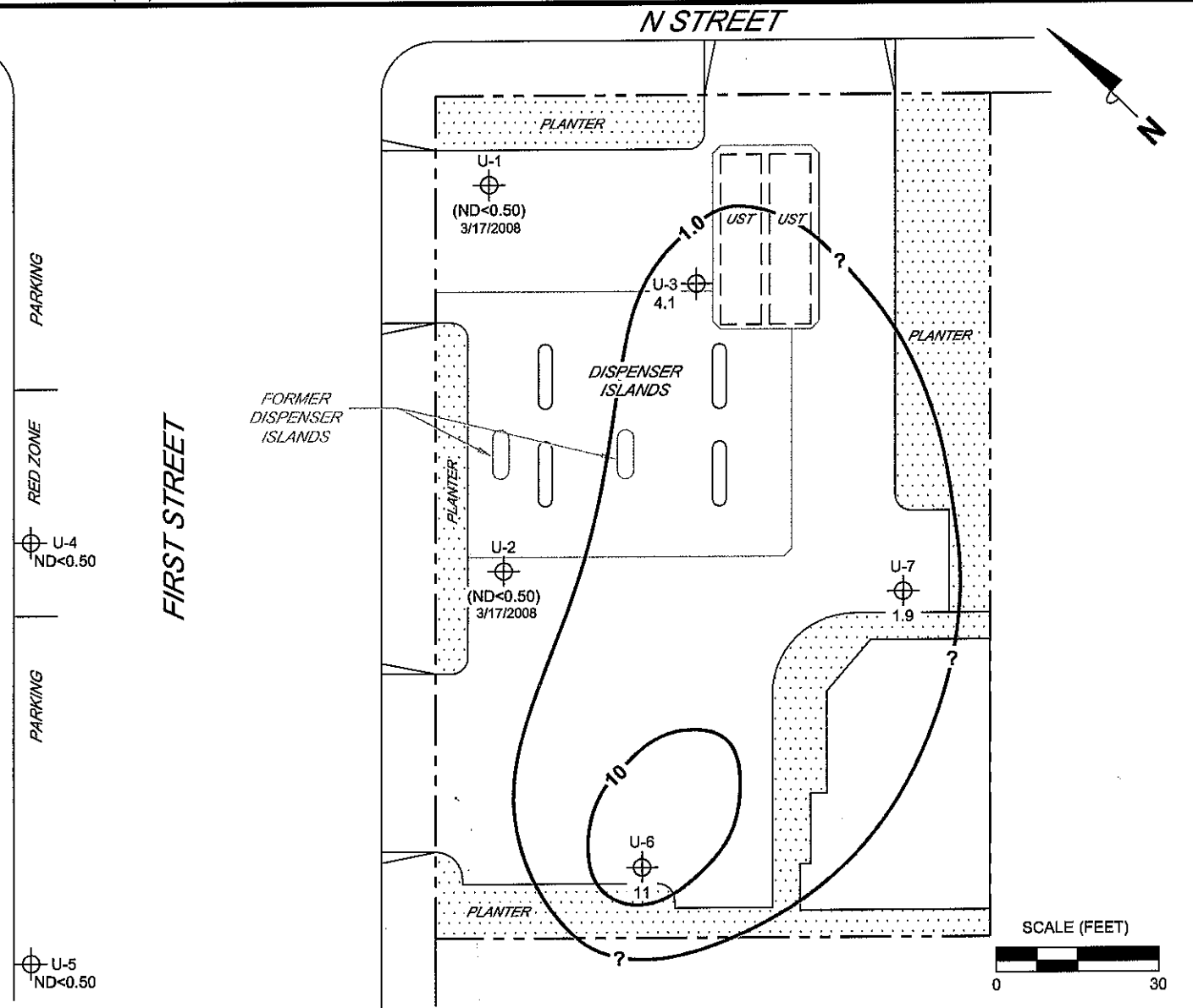
FACILITY:  
 76 STATION 4186  
 1771 FIRST STREET  
 LIVERMORE, CALIFORNIA

**DISSOLVED-PHASE TPH-G (GC/MS)  
 CONCENTRATION MAP**  
 June 12, 2008

**FIGURE 3**

**LEGEND**

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



**NOTES:**

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



PROJECT: 154771


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 LIVERMORE, CALIFORNIA

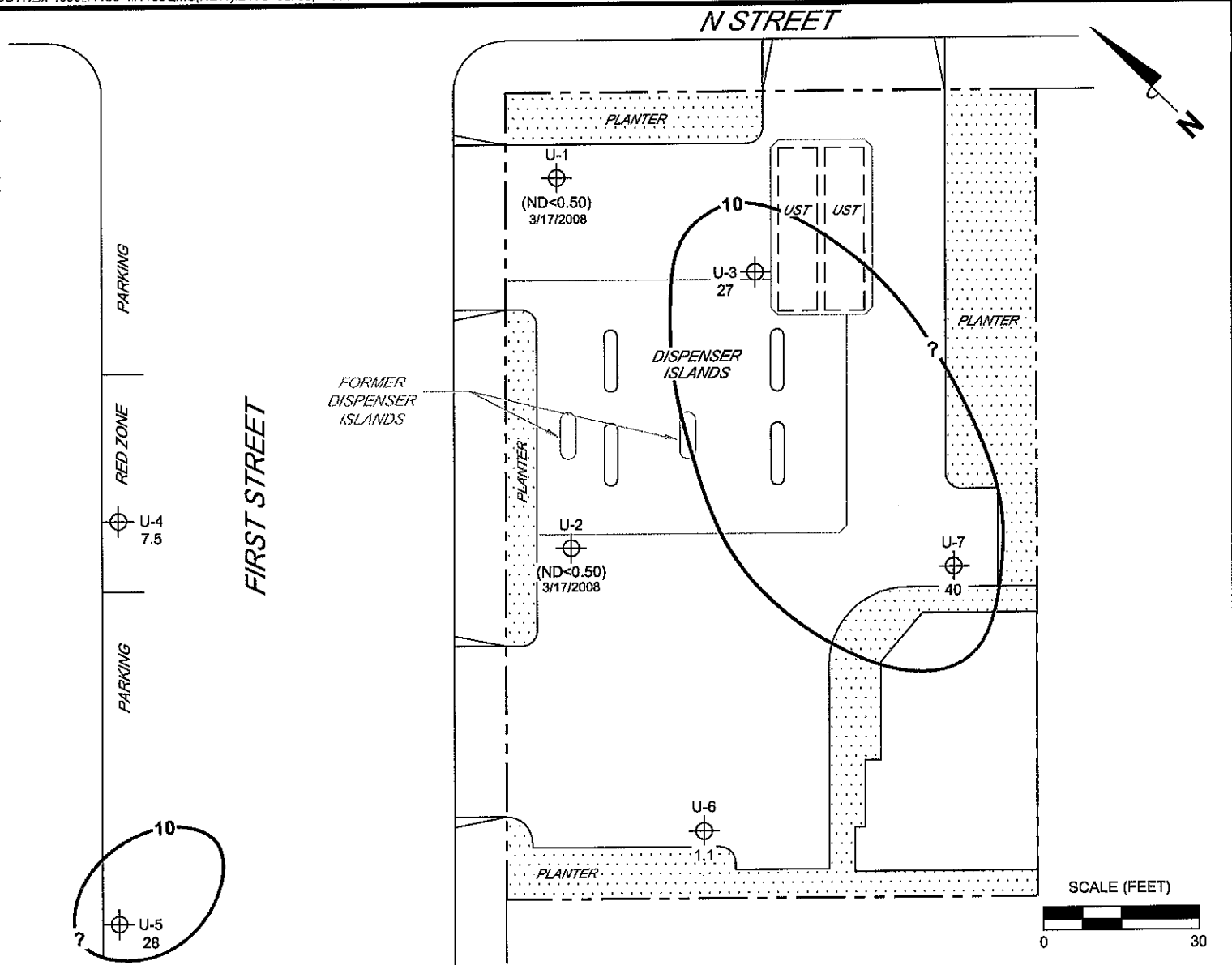
**DISSOLVED-PHASE BENZENE  
 CONCENTRATION MAP  
 June 12, 2008**

**FIGURE 4**

**LEGEND**

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

 10 Dissolved-Phase MTBE Contour (µg/l)



**NOTES:**

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



PROJECT: 154771

FACILITY:  
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 LIVERMORE, CALIFORNIA

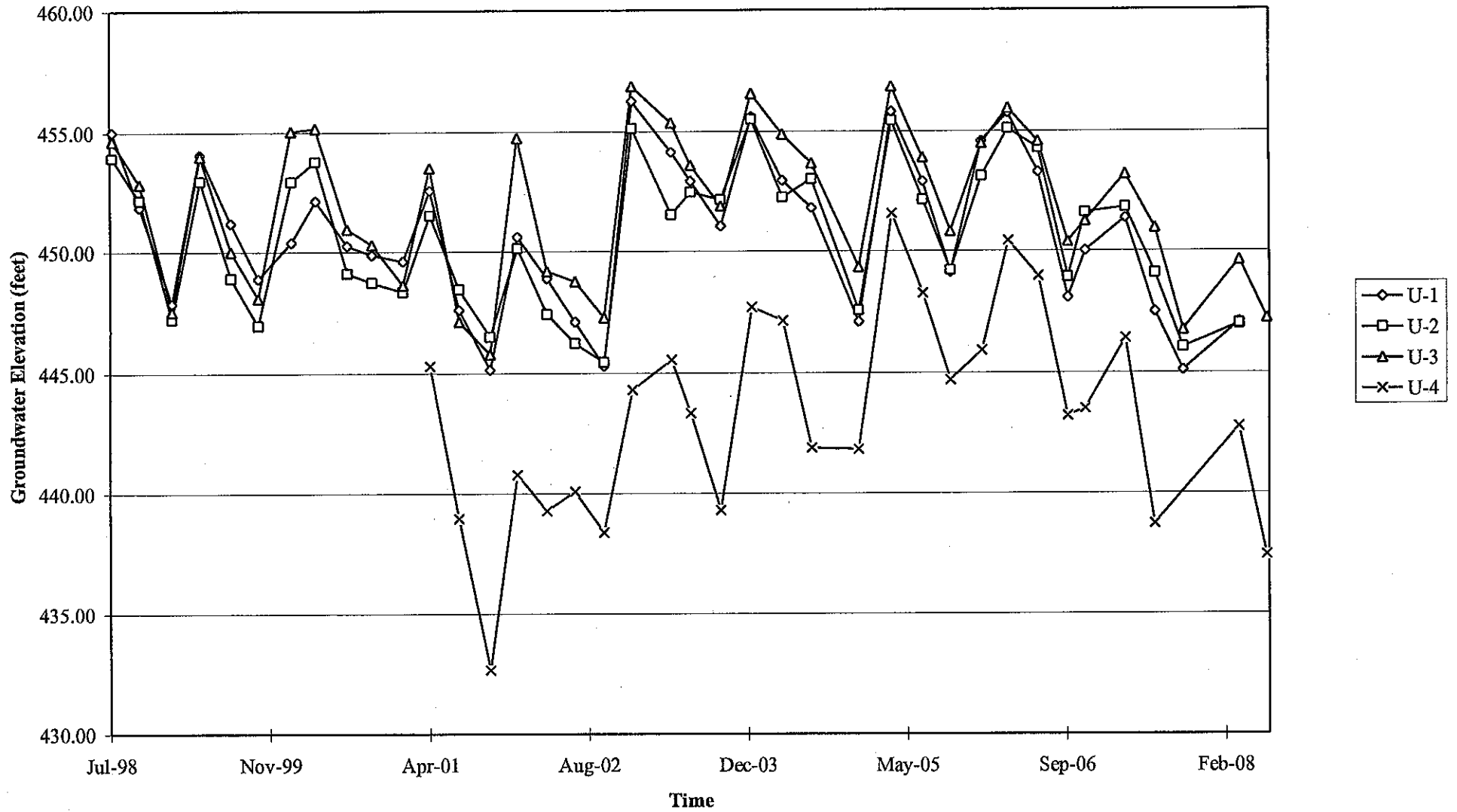
**DISSOLVED-PHASE MTBE  
 CONCENTRATION MAP**  
 June 12, 2008

**FIGURE 5**

# GRAPHS

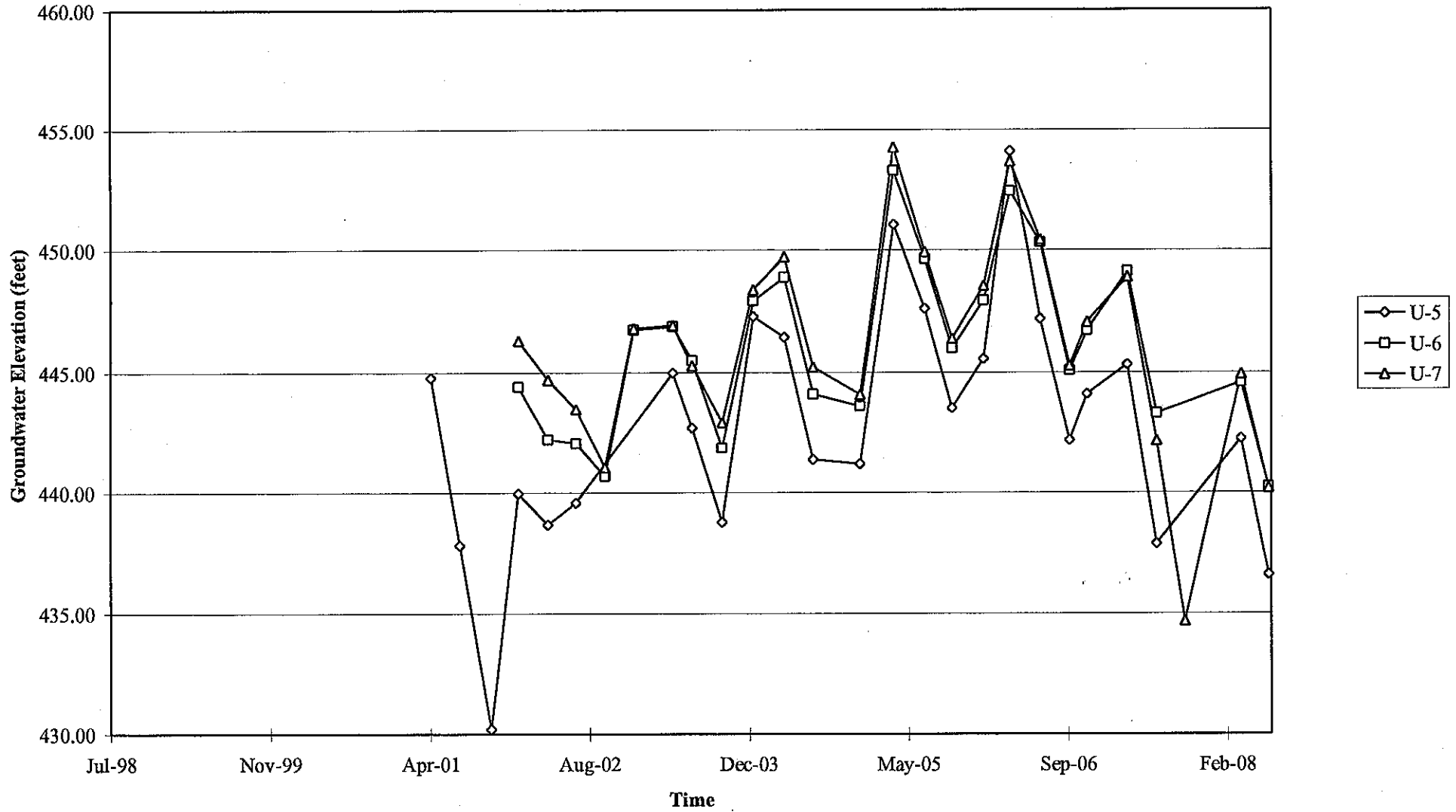


Groundwater Elevations vs. Time  
76 Station 4186



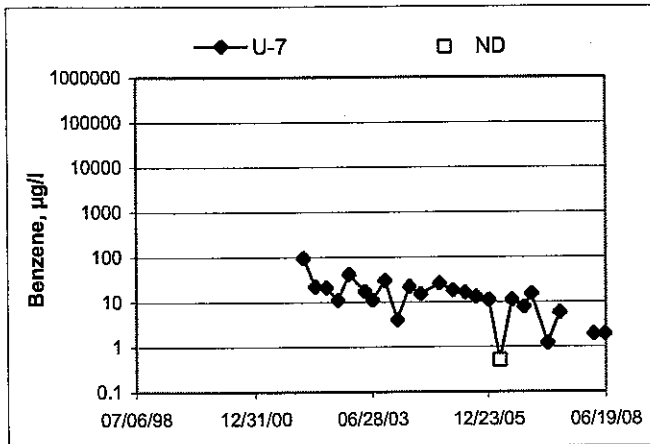
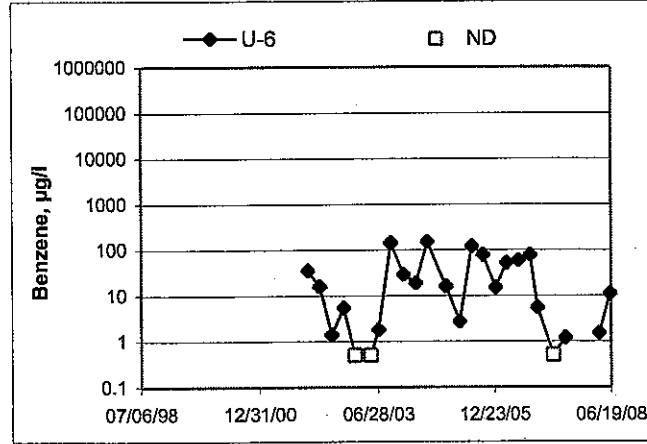
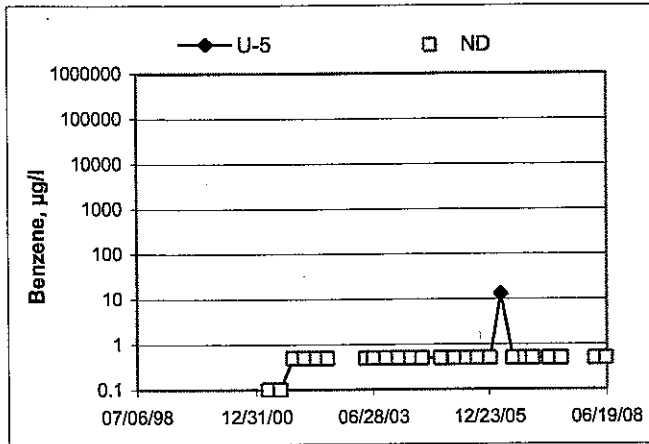
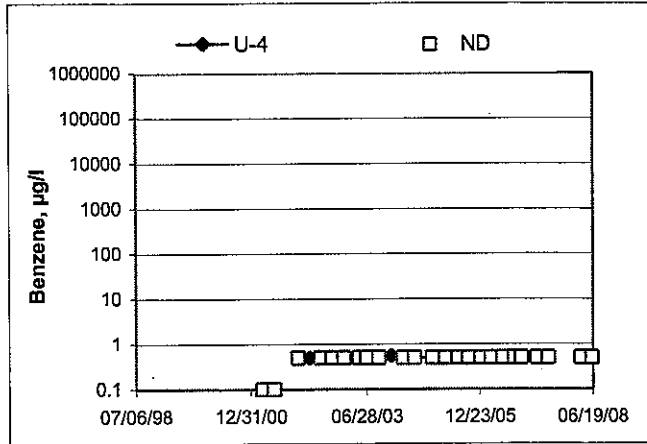
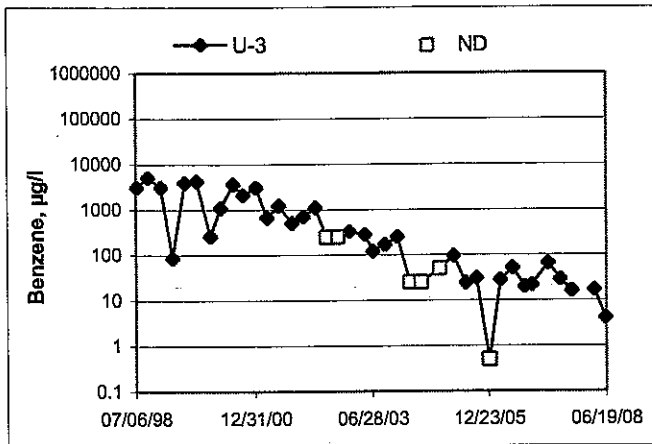
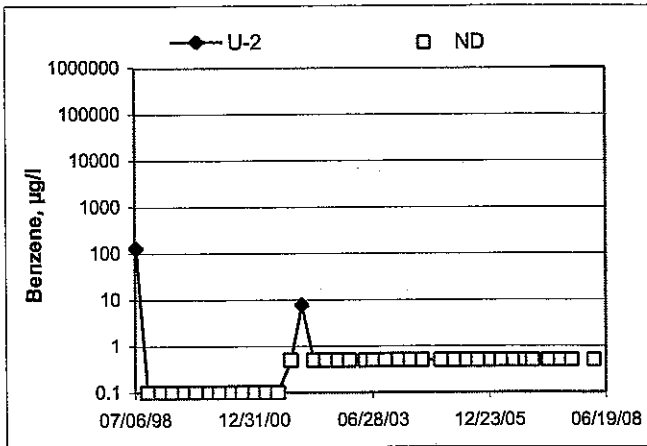
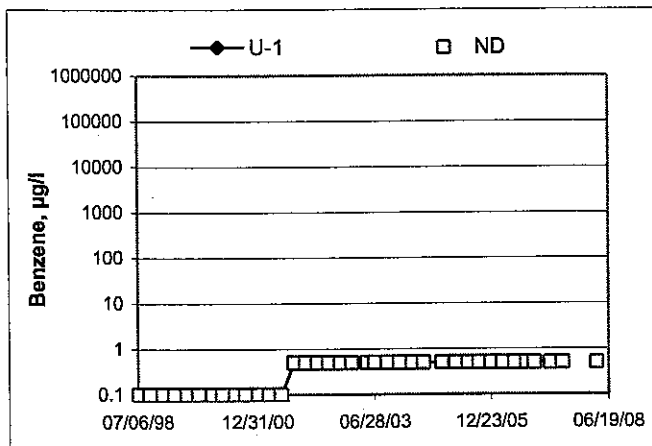
Elevations may have been corrected for apparent changes due to resurvey

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 is 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 a particular well, decontaminated prior to each use, or discarded after a single use. Decontamination consists of washing in a solution of Liqui-nox and water and rinsing twice. The final rinse is in deionized water.

### **Exceptions**

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



## GROUNDWATER SAMPLING FIELD NOTES

Technician: Rickey H

Site: 4186

Project No.: 154771/

Date: 6/12/08

Well No. U-2

Purge Method: HB

Depth to Water (feet): 32.19

Depth to Product (feet): —

Total Depth (feet): 33.10

LPH & Water Recovered (gallons): —

Water Column (feet): 0.91

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 32.73

1 Well Volume (gallons): 0.15

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
0706	0707		0.15	1045	20.3	7.41	8.32	177	
			0.30						
			0.45						
Static at Time Sampled			Total Gallons Purged		Sample Time				
			0.15						
<b>Comments:</b> well went dry at .15 gallons. well did not recover in two hours insufficient water to get samples static time was 32.69									

Well No. U-4

Purge Method: HB

Depth to Water (feet): 39.50

Depth to Product (feet): —

Total Depth (feet): 44.95

LPH & Water Recovered (gallons): —

Water Column (feet): 5.45

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 40.59

1 Well Volume (gallons): 0.93

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
0722			0.93	1066	20.5	6.81	4.00	185	
			1.86	1062	20.7	6.64	1.81	190	
	0728		2.79	1062	20.7	6.59	1.26	188	
Static at Time Sampled			Total Gallons Purged		Sample Time				
40.59			2.79		0735				
<b>Comments:</b>									

## GROUNDWATER SAMPLING FIELD NOTES

Technician: RICKY H.

Site: 4186

Project No.: 154771

Date: 6/12/08

Well No. U-5

Purge Method: HR

Depth to Water (feet): 39.90

Depth to Product (feet):       

Total Depth (feet): 41.01

LPH & Water Recovered (gallons):       

Water Column (feet): 1.11

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 40.12

1 Well Volume (gallons): 0.19

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
0752			0.19	949.2	21.4	6.73	1.22	172	
			6.38	961.4	21.3	6.69	1.31	171	
	0757		0.57	961.3	20.9	6.67	1.89	171	
Static at Time Sampled			Total Gallons Purged		Sample Time				
40.12			0.57		0802				
Comments:									

Well No. U-6

Purge Method: HR

Depth to Water (feet): 38.16

Depth to Product (feet):       

Total Depth (feet): 41.44

LPH & Water Recovered (gallons):       

Water Column (feet): 3.28

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 38.82

1 Well Volume (gallons): 0.56

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
0818			0.56	1478	20.8	6.48	2.08	-20	
			1.12	1486	20.8	6.45	1.71	-23	
	0823		1.68	1494	20.6	6.46	1.10	-26	
Static at Time Sampled			Total Gallons Purged		Sample Time				
38.82			1.68		0952				
Comments:									



## GROUNDWATER SAMPLING FIELD NOTES

Technician: RICKY H.

Site: 4186

Project No.: 154771

Date: 6/12/08

Well No. U-7

Purge Method: HB

Depth to Water (feet): 38.56

Depth to Product (feet):       

Total Depth (feet): 44.40

LPH & Water Recovered (gallons):       

Water Column (feet): 5.84

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 39.73

1 Well Volume (gallons): 0.99

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
0837			0.99	1234	21.5	6.65	2.27	9	
			1.98	1231	21.3	6.60	1.54	-4	
	0843		2.97	1233	21.2	6.57	0.98	-11	
		Static at Time Sampled		Total Gallons Purged		Sample Time			
		40.18		2.97		1045			
Comments: <u>well did not recover in two hours</u>									

Well No. U-3

Purge Method: HB

Depth to Water (feet): 31.23

Depth to Product (feet):       

Total Depth (feet): 33.40

LPH & Water Recovered (gallons):       

Water Column (feet): 2.17

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 31.66

1 Well Volume (gallons): 0.37

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
0851			0.37	1061	21.4	6.48	1.30	-17	
			0.74	1063	20.9	6.41	0.68	-36	
	0855		1.11	1054	20.4	6.38	0.11	-40	
		Static at Time Sampled		Total Gallons Purged		Sample Time			
		31.66		1.11		1025			
Comments: <u>not enough water for 1qt purg</u>									

STATEMENT OF NON-COMPLETION OF JOB

DATE OF EVENT: 6/12/08 STATION NUMBER: 4186

NAME OF TECH: Ricky H. CALLED GORDON: \_\_\_\_\_

CALLED PM: X NAME OF PM CALLED: A. Collins

WELL NUMBER: U-1 STATEMENT FROM PM \_\_\_\_\_ OR TECH X

well was dry

WELL NUMBER: U-2 STATEMENT FROM PM \_\_\_\_\_ OR TECH X

well did not recover enough water to take samples

WELL NUMBER: U-3 STATEMENT FROM PM \_\_\_\_\_ OR TECH X

at time of samples did not gather enough water to fill 1 qt Poly

WELL NUMBER: \_\_\_\_\_ STATEMENT FROM PM \_\_\_\_\_ OR TECH \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



**Laboratories, Inc.**

Environmental Testing Laboratory Since 1949

Date of Report: 06/26/2008

Anju Farfan

TRC

21 Technology Drive  
Irvine, CA 92618

RE: 4186

BC Work Order: 0807708

Enclosed are the results of analyses for samples received by the laboratory on 6/12/2008. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Molly Meyers  
Client Service Rep

Authorized Signature

TRC  
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Irvine, CA 92618

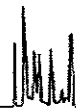
Project: 4186  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 06/26/2008 17:01

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information					
0807708-01	COC Number:	---		Receive Date:	06/12/2008 20:50	Delivery Work Order:
	Project Number:	4186		Sampling Date:	06/12/2008 07:35	Global ID: T0600101777
	Sampling Location:	U-4		Sample Depth:	---	Matrix: W
	Sampling Point:	U-4		Sample Matrix:	Water	Sample QC Type (SACode): CS
	Sampled By:	TRCI				Cooler ID:
0807708-02	COC Number:	---		Receive Date:	06/12/2008 20:50	Delivery Work Order:
	Project Number:	4186		Sampling Date:	06/12/2008 08:02	Global ID: T0600101777
	Sampling Location:	U-5		Sample Depth:	---	Matrix: W
	Sampling Point:	U-5		Sample Matrix:	Water	Sample QC Type (SACode): CS
	Sampled By:	TRCI				Cooler ID:
0807708-03	COC Number:	---		Receive Date:	06/12/2008 20:50	Delivery Work Order:
	Project Number:	4186		Sampling Date:	06/12/2008 09:52	Global ID: T0600101777
	Sampling Location:	U-6		Sample Depth:	---	Matrix: W
	Sampling Point:	U-6		Sample Matrix:	Water	Sample QC Type (SACode): CS
	Sampled By:	TRCI				Cooler ID:
0807708-04	COC Number:	---		Receive Date:	06/12/2008 20:50	Delivery Work Order:
	Project Number:	4186		Sampling Date:	06/12/2008 10:45	Global ID: T0600101777
	Sampling Location:	U-7		Sample Depth:	---	Matrix: W
	Sampling Point:	U-7		Sample Matrix:	Water	Sample QC Type (SACode): CS
	Sampled By:	TRCI				Cooler ID:
0807708-05	COC Number:	---		Receive Date:	06/12/2008 20:50	Delivery Work Order:
	Project Number:	4186		Sampling Date:	06/12/2008 10:25	Global ID: T0600101777
	Sampling Location:	U-3		Sample Depth:	---	Matrix: W
	Sampling Point:	U-3		Sample Matrix:	Water	Sample QC Type (SACode): CS
	Sampled By:	TRCI				Cooler ID:

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

Reported: 06/26/2008 17:01

### Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0807708-01		Client Sample Name: 4186, U-4, U-4, 6/12/2008 7:35:00AM											
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	06/17/08	06/18/08 03:06	SDU	MS-V10	1	BRF1002	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	06/17/08	06/18/08 03:06	SDU	MS-V10	1	BRF1002	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	06/17/08	06/18/08 03:06	SDU	MS-V10	1	BRF1002	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	06/17/08	06/18/08 03:06	SDU	MS-V10	1	BRF1002	ND	
Methyl t-butyl ether	7.5	ug/L	0.50		EPA-8260	06/17/08	06/18/08 03:06	SDU	MS-V10	1	BRF1002	ND	
Toluene	ND	ug/L	0.50		EPA-8260	06/17/08	06/18/08 03:06	SDU	MS-V10	1	BRF1002	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	06/17/08	06/18/08 03:06	SDU	MS-V10	1	BRF1002	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	06/17/08	06/18/08 03:06	SDU	MS-V10	1	BRF1002	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	06/17/08	06/18/08 03:06	SDU	MS-V10	1	BRF1002	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	06/17/08	06/18/08 03:06	SDU	MS-V10	1	BRF1002	ND	
Ethanol	ND	ug/L	250		EPA-8260	06/17/08	06/18/08 03:06	SDU	MS-V10	1	BRF1002	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	06/17/08	06/18/08 03:06	SDU	MS-V10	1	BRF1002	ND	
Total Purgeable Petroleum Hydrocarbons	71	ug/L	50		EPA-8260	06/17/08	06/18/08 03:06	SDU	MS-V10	1	BRF1002	ND	
1,2-Dichloroethane-d4 (Surrogate)	104	%	76 - 114 (LCL - UCL)		EPA-8260	06/17/08	06/18/08 03:06	SDU	MS-V10	1	BRF1002		
Toluene-d8 (Surrogate)	97.9	%	88 - 110 (LCL - UCL)		EPA-8260	06/17/08	06/18/08 03:06	SDU	MS-V10	1	BRF1002		
4-Bromofluorobenzene (Surrogate)	97.2	%	86 - 115 (LCL - UCL)		EPA-8260	06/17/08	06/18/08 03:06	SDU	MS-V10	1	BRF1002		

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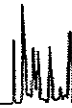
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21 Technology Drive  
Irvine, CA 92618

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

Reported: 06/26/2008 17:01

## Water Analysis (General Chemistry)

BCL Sample ID: 0807708-01		Client Sample Name: 4186, U-4, U-4, 6/12/2008 7:35:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Calcium	2.4	mg/L	0.10		EPA-6010B	06/17/08	06/19/08 21:46	ARD	PE-OP1	1	BRF1118	ND	
Magnesium	7.7	mg/L	0.050		EPA-6010B	06/17/08	06/19/08 21:46	ARD	PE-OP1	1	BRF1118	ND	
Sodium	9.0	mg/L	0.50		EPA-6010B	06/17/08	06/19/08 21:46	ARD	PE-OP1	1	BRF1118	ND	
Potassium	ND	mg/L	1.0		EPA-6010B	06/17/08	06/19/08 21:46	ARD	PE-OP1	1	BRF1118	ND	
Chloride	38	mg/L	0.50		EPA-300.0	06/13/08	06/13/08 12:05	VH1	IC2	1	BRF0926	ND	
Fluoride	0.14	mg/L	0.050		EPA-300.0	06/13/08	06/13/08 12:05	VH1	IC2	1	BRF0926	ND	
Nitrate as NO3	ND	mg/L	0.44		EPA-300.0	06/13/08	06/13/08 12:05	VH1	IC2	1	BRF0926	ND	
Sulfate	30	mg/L	1.0		EPA-300.0	06/13/08	06/13/08 12:05	VH1	IC2	1	BRF0926	ND	
Total Dissolved Solids @ 180 C	610	mg/L	33		EPA-160.1	06/18/08	06/18/08 09:00	JLR	MANUAL	3.333	BRF1294	ND	



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

Reported: 06/26/2008 17:01

### Water Analysis (Metals)

BCL Sample ID: 0807708-01		Client Sample Name: 4186, U-4, U-4, 6/12/2008 7:35:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep	Run	Analyst	Instru- ment ID	Dilution	QC	MB	Lab Quals
						Date	Date/Time				Batch ID	Bias	
Antimony	ND	ug/L	100		EPA-6010B	06/17/08	06/19/08 21:46	ARD	PE-OP1	1	BRF1118	ND	
Arsenic	ND	ug/L	50		EPA-6010B	06/17/08	06/19/08 21:46	ARD	PE-OP1	1	BRF1118	ND	
Hexavalent Chromium	ND	ug/L	2.0		EPA-7196	06/13/08	06/13/08 06:53	TDC	KONE-1	1	BRF0982	ND	
Barium	52	ug/L	10		EPA-6010B	06/17/08	06/19/08 21:46	ARD	PE-OP1	1	BRF1118	ND	
Beryllium	ND	ug/L	10		EPA-6010B	06/17/08	06/19/08 21:46	ARD	PE-OP1	1	BRF1118	ND	
Cadmium	ND	ug/L	10		EPA-6010B	06/17/08	06/19/08 21:46	ARD	PE-OP1	1	BRF1118	ND	
Chromium	ND	ug/L	10		EPA-6010B	06/17/08	06/19/08 21:46	ARD	PE-OP1	1	BRF1118	ND	
Cobalt	ND	ug/L	50		EPA-6010B	06/17/08	06/19/08 21:46	ARD	PE-OP1	1	BRF1118	ND	
Copper	ND	ug/L	10		EPA-6010B	06/17/08	06/19/08 21:46	ARD	PE-OP1	1	BRF1118	ND	
Lead	ND	ug/L	50		EPA-6010B	06/17/08	06/19/08 21:46	ARD	PE-OP1	1	BRF1118	ND	
Manganese	720	ug/L	10		EPA-6010B	06/17/08	06/19/08 21:46	ARD	PE-OP1	1	BRF1118	ND	
Mercury	ND	ug/L	0.20		EPA-7470A	06/18/08	06/20/08 12:40	MEV	CETAC1	1	BRF1132	ND	
Molybdenum	ND	ug/L	50		EPA-6010B	06/17/08	06/19/08 21:46	ARD	PE-OP1	1	BRF1118	ND	
Nickel	ND	ug/L	10		EPA-6010B	06/17/08	06/19/08 21:46	ARD	PE-OP1	1	BRF1118	ND	
Selenium	ND	ug/L	100		EPA-6010B	06/17/08	06/19/08 21:46	ARD	PE-OP1	1	BRF1118	ND	
Silver	ND	ug/L	10		EPA-6010B	06/17/08	06/19/08 21:46	ARD	PE-OP1	1	BRF1118	ND	
Thallium	ND	ug/L	100		EPA-6010B	06/17/08	06/19/08 21:46	ARD	PE-OP1	1	BRF1118	ND	
Vanadium	ND	ug/L	10		EPA-6010B	06/17/08	06/19/08 21:46	ARD	PE-OP1	1	BRF1118	ND	
Zinc	ND	ug/L	10		EPA-6010B	06/17/08	06/19/08 21:46	ARD	PE-OP1	1	BRF1118	ND	
Total Antimony	ND	ug/L	100		EPA-6010B	06/19/08	06/23/08 12:57	ARD	PE-OP1	1	BRF1170	ND	
Total Arsenic	ND	ug/L	50		EPA-6010B	06/19/08	06/23/08 12:57	ARD	PE-OP1	1	BRF1170	ND	
Total Barium	2500	ug/L	10		EPA-6010B	06/19/08	06/23/08 12:57	ARD	PE-OP1	1	BRF1170	ND	
Total Beryllium	ND	ug/L	10		EPA-6010B	06/19/08	06/23/08 12:57	ARD	PE-OP1	1	BRF1170	ND	

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Irvine, CA 92618

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

Reported: 06/26/2008 17:01

## Water Analysis (Metals)

BCL Sample ID: 0807708-01		Client Sample Name: 4186, U-4, U-4, 6/12/2008 7:35:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Total Cadmium	ND	ug/L	10		EPA-6010B	06/19/08	06/23/08 12:57	ARD	PE-OP1	1	BRF1170	ND	
Total Chromium	610	ug/L	10		EPA-6010B	06/19/08	06/23/08 12:57	ARD	PE-OP1	1	BRF1170	ND	
Total Cobalt	180	ug/L	50		EPA-6010B	06/19/08	06/23/08 12:57	ARD	PE-OP1	1	BRF1170	ND	
Total Copper	360	ug/L	10		EPA-6010B	06/19/08	06/23/08 12:57	ARD	PE-OP1	1	BRF1170	ND	
Total Lead	53	ug/L	50		EPA-6010B	06/19/08	06/23/08 12:57	ARD	PE-OP1	1	BRF1170	ND	
Total Mercury	2.5	ug/L	0.40		EPA-7470A	06/20/08	06/23/08 12:05	MEV	CETAC1	2	BRF1292	ND	A01
Total Molybdenum	ND	ug/L	50		EPA-6010B	06/19/08	06/23/08 12:57	ARD	PE-OP1	1	BRF1170	ND	
Total Nickel	2100	ug/L	10		EPA-6010B	06/19/08	06/23/08 12:57	ARD	PE-OP1	1	BRF1170	ND	
Total Selenium	ND	ug/L	100		EPA-6010B	06/19/08	06/23/08 12:57	ARD	PE-OP1	1	BRF1170	ND	
Total Silver	ND	ug/L	10		EPA-6010B	06/19/08	06/23/08 12:57	ARD	PE-OP1	1	BRF1170	ND	
Total Thallium	ND	ug/L	100		EPA-6010B	06/19/08	06/23/08 12:57	ARD	PE-OP1	1	BRF1170	ND	
Total Vanadium	260	ug/L	10		EPA-6010B	06/19/08	06/23/08 12:57	ARD	PE-OP1	1	BRF1170	ND	
Total Zinc	420	ug/L	50		EPA-6010B	06/19/08	06/23/08 12:57	ARD	PE-OP1	1	BRF1170	ND	

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

Reported: 06/26/2008 17:01

### Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0807708-02		Client Sample Name: 4186, U-5, U-5, 6/12/2008 8:02:00AM											
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	06/17/08	06/18/08 03:24	SDU	MS-V10	1	BRF1002	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	06/17/08	06/18/08 03:24	SDU	MS-V10	1	BRF1002	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	06/17/08	06/18/08 03:24	SDU	MS-V10	1	BRF1002	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	06/17/08	06/18/08 03:24	SDU	MS-V10	1	BRF1002	ND	
Methyl t-butyl ether	28	ug/L	0.50		EPA-8260	06/17/08	06/18/08 03:24	SDU	MS-V10	1	BRF1002	ND	
Toluene	ND	ug/L	0.50		EPA-8260	06/17/08	06/18/08 03:24	SDU	MS-V10	1	BRF1002	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	06/17/08	06/18/08 03:24	SDU	MS-V10	1	BRF1002	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	06/17/08	06/18/08 03:24	SDU	MS-V10	1	BRF1002	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	06/17/08	06/18/08 03:24	SDU	MS-V10	1	BRF1002	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	06/17/08	06/18/08 03:24	SDU	MS-V10	1	BRF1002	ND	
Ethanol	ND	ug/L	250		EPA-8260	06/17/08	06/18/08 03:24	SDU	MS-V10	1	BRF1002	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	06/17/08	06/18/08 03:24	SDU	MS-V10	1	BRF1002	ND	
Total Purgeable Petroleum Hydrocarbons	55	ug/L	50		EPA-8260	06/17/08	06/18/08 03:24	SDU	MS-V10	1	BRF1002	ND	A90
1,2-Dichloroethane-d4 (Surrogate)	104	%	76 - 114 (LCL - UCL)		EPA-8260	06/17/08	06/18/08 03:24	SDU	MS-V10	1	BRF1002		
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)		EPA-8260	06/17/08	06/18/08 03:24	SDU	MS-V10	1	BRF1002		
4-Bromofluorobenzene (Surrogate)	95.9	%	86 - 115 (LCL - UCL)		EPA-8260	06/17/08	06/18/08 03:24	SDU	MS-V10	1	BRF1002		

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TRC  
21 Technology Drive  
Irvine, CA 92618

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

Reported: 06/26/2008 17:01

## Water Analysis (General Chemistry)

BCL Sample ID: 0807708-02		Client Sample Name: 4186, U-5, U-5, 6/12/2008 8:02:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Calcium	66	mg/L	0.10		EPA-6010B	06/17/08	06/19/08 21:47	ARD	PE-OP1	1	BRF1118	ND	
Magnesium	73	mg/L	0.050		EPA-6010B	06/17/08	06/19/08 21:47	ARD	PE-OP1	1	BRF1118	ND	
Sodium	26	mg/L	0.50		EPA-6010B	06/17/08	06/19/08 21:47	ARD	PE-OP1	1	BRF1118	ND	
Potassium	1.9	mg/L	1.0		EPA-6010B	06/17/08	06/19/08 21:47	ARD	PE-OP1	1	BRF1118	ND	
Chloride	31	mg/L	0.50		EPA-300.0	06/13/08	06/13/08 12:56	VH1	IC2	1	BRF0926	ND	
Fluoride	0.070	mg/L	0.050		EPA-300.0	06/13/08	06/13/08 12:56	VH1	IC2	1	BRF0926	ND	
Nitrate as NO3	1.8	mg/L	0.44		EPA-300.0	06/13/08	06/13/08 12:56	VH1	IC2	1	BRF0926	ND	
Sulfate	26	mg/L	1.0		EPA-300.0	06/13/08	06/13/08 12:56	VH1	IC2	1	BRF0926	ND	
Total Dissolved Solids @ 180 C	550	mg/L	33		EPA-160.1	06/18/08	06/18/08 09:00	JLR	MANUAL	3.333	BRF1294	ND	

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21 Technology Drive  
Irvine, CA 92618

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

Reported: 06/26/2008 17:01

### Water Analysis (Metals)

BCL Sample ID: 0807708-02		Client Sample Name: 4186, U-5, U-5, 6/12/2008 8:02:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Antimony	ND	ug/L	100		EPA-6010B	06/17/08	06/19/08 21:47	ARD	PE-OP1	1	BRF1118	ND	
Arsenic	ND	ug/L	50		EPA-6010B	06/17/08	06/19/08 21:47	ARD	PE-OP1	1	BRF1118	ND	
Hexavalent Chromium	ND	ug/L	2.0		EPA-7196	06/13/08	06/13/08 06:53	TDC	KONE-1	1	BRF0982	ND	
Barium	370	ug/L	10		EPA-6010B	06/17/08	06/19/08 21:47	ARD	PE-OP1	1	BRF1118	ND	
Beryllium	ND	ug/L	10		EPA-6010B	06/17/08	06/19/08 21:47	ARD	PE-OP1	1	BRF1118	ND	
Cadmium	ND	ug/L	10		EPA-6010B	06/17/08	06/19/08 21:47	ARD	PE-OP1	1	BRF1118	ND	
Chromium	ND	ug/L	10		EPA-6010B	06/17/08	06/19/08 21:47	ARD	PE-OP1	1	BRF1118	ND	
Cobalt	ND	ug/L	50		EPA-6010B	06/17/08	06/19/08 21:47	ARD	PE-OP1	1	BRF1118	ND	
Copper	ND	ug/L	10		EPA-6010B	06/17/08	06/19/08 21:47	ARD	PE-OP1	1	BRF1118	ND	
Lead	ND	ug/L	50		EPA-6010B	06/17/08	06/19/08 21:47	ARD	PE-OP1	1	BRF1118	ND	
Manganese	36	ug/L	10		EPA-6010B	06/17/08	06/19/08 21:47	ARD	PE-OP1	1	BRF1118	ND	
Mercury	ND	ug/L	0.20		EPA-7470A	06/18/08	06/20/08 12:43	MEV	CETAC1	1	BRF1132	ND	
Molybdenum	ND	ug/L	50		EPA-6010B	06/17/08	06/19/08 21:47	ARD	PE-OP1	1	BRF1118	ND	
Nickel	ND	ug/L	10		EPA-6010B	06/17/08	06/19/08 21:47	ARD	PE-OP1	1	BRF1118	ND	
Selenium	ND	ug/L	100		EPA-6010B	06/17/08	06/19/08 21:47	ARD	PE-OP1	1	BRF1118	ND	
Silver	ND	ug/L	10		EPA-6010B	06/17/08	06/19/08 21:47	ARD	PE-OP1	1	BRF1118	ND	
Thallium	ND	ug/L	100		EPA-6010B	06/17/08	06/19/08 21:47	ARD	PE-OP1	1	BRF1118	ND	
Vanadium	ND	ug/L	10		EPA-6010B	06/17/08	06/19/08 21:47	ARD	PE-OP1	1	BRF1118	ND	
Zinc	ND	ug/L	10		EPA-6010B	06/17/08	06/19/08 21:47	ARD	PE-OP1	1	BRF1118	ND	
Total Antimony	ND	ug/L	100		EPA-6010B	06/19/08	06/23/08 12:59	ARD	PE-OP1	1	BRF1170	ND	
Total Arsenic	ND	ug/L	50		EPA-6010B	06/19/08	06/23/08 12:59	ARD	PE-OP1	1	BRF1170	ND	
Total Barium	830	ug/L	10		EPA-6010B	06/19/08	06/23/08 12:59	ARD	PE-OP1	1	BRF1170	ND	
Total Beryllium	ND	ug/L	10		EPA-6010B	06/19/08	06/23/08 12:59	ARD	PE-OP1	1	BRF1170	ND	

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21 Technology Drive  
Irvine, CA 92618

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

Reported: 06/26/2008 17:01

## Water Analysis (Metals)

BCL Sample ID: 0807708-02		Client Sample Name: 4186, U-5, U-5, 6/12/2008 8:02:00AM												
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Total Cadmium	ND	ug/L	10		EPA-6010B	06/19/08	06/23/08 12:59	ARD	PE-OP1	1	BRF1170	ND		
Total Chromium	86	ug/L	10		EPA-6010B	06/19/08	06/23/08 12:59	ARD	PE-OP1	1	BRF1170	ND		
Total Cobalt	ND	ug/L	50		EPA-6010B	06/19/08	06/23/08 12:59	ARD	PE-OP1	1	BRF1170	ND		
Total Copper	53	ug/L	10		EPA-6010B	06/19/08	06/23/08 12:59	ARD	PE-OP1	1	BRF1170	ND		
Total Lead	ND	ug/L	50		EPA-6010B	06/19/08	06/23/08 12:59	ARD	PE-OP1	1	BRF1170	ND		
Total Mercury	0.26	ug/L	0.20		EPA-7470A	06/20/08	06/23/08 11:23	MEV	CETAC1	1	BRF1292	ND		
Total Molybdenum	ND	ug/L	50		EPA-6010B	06/19/08	06/23/08 12:59	ARD	PE-OP1	1	BRF1170	ND		
Total Nickel	290	ug/L	10		EPA-6010B	06/19/08	06/23/08 12:59	ARD	PE-OP1	1	BRF1170	ND		
Total Selenium	ND	ug/L	100		EPA-6010B	06/19/08	06/23/08 12:59	ARD	PE-OP1	1	BRF1170	ND		
Total Silver	ND	ug/L	10		EPA-6010B	06/19/08	06/23/08 12:59	ARD	PE-OP1	1	BRF1170	ND		
Total Thallium	ND	ug/L	100		EPA-6010B	06/19/08	06/23/08 12:59	ARD	PE-OP1	1	BRF1170	ND		
Total Vanadium	44	ug/L	10		EPA-6010B	06/19/08	06/23/08 12:59	ARD	PE-OP1	1	BRF1170	ND		
Total Zinc	87	ug/L	50		EPA-6010B	06/19/08	06/23/08 12:59	ARD	PE-OP1	1	BRF1170	ND		

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Irvine, CA 92618

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

Reported: 06/26/2008 17:01

## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0807708-03		Client Sample Name: 4186, U-6, U-6, 6/12/2008 9:52:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	11	ug/L	0.50		EPA-8260	06/17/08	06/18/08 03:42	SDU	MS-V10	1	BRF1002	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	06/17/08	06/18/08 03:42	SDU	MS-V10	1	BRF1002	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	06/17/08	06/18/08 03:42	SDU	MS-V10	1	BRF1002	ND	
Ethylbenzene	27	ug/L	0.50		EPA-8260	06/17/08	06/18/08 03:42	SDU	MS-V10	1	BRF1002	ND	
Methyl t-butyl ether	1.1	ug/L	0.50		EPA-8260	06/17/08	06/18/08 03:42	SDU	MS-V10	1	BRF1002	ND	
Toluene	0.79	ug/L	0.50		EPA-8260	06/17/08	06/18/08 03:42	SDU	MS-V10	1	BRF1002	ND	
Total Xylenes	2.3	ug/L	1.0		EPA-8260	06/17/08	06/18/08 03:42	SDU	MS-V10	1	BRF1002	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	06/17/08	06/18/08 03:42	SDU	MS-V10	1	BRF1002	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	06/17/08	06/18/08 03:42	SDU	MS-V10	1	BRF1002	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	06/17/08	06/18/08 03:42	SDU	MS-V10	1	BRF1002	ND	
Ethanol	ND	ug/L	250		EPA-8260	06/17/08	06/18/08 03:42	SDU	MS-V10	1	BRF1002	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	06/17/08	06/18/08 03:42	SDU	MS-V10	1	BRF1002	ND	
Total Purgeable Petroleum Hydrocarbons	2100	ug/L	50		EPA-8260	06/17/08	06/18/08 03:42	SDU	MS-V10	1	BRF1002	ND	
1,2-Dichloroethane-d4 (Surrogate)	103	%	76 - 114 (LCL - UCL)		EPA-8260	06/17/08	06/18/08 03:42	SDU	MS-V10	1	BRF1002		
Toluene-d8 (Surrogate)	101	%	88 - 110 (LCL - UCL)		EPA-8260	06/17/08	06/18/08 03:42	SDU	MS-V10	1	BRF1002		
4-Bromofluorobenzene (Surrogate)	101	%	86 - 115 (LCL - UCL)		EPA-8260	06/17/08	06/18/08 03:42	SDU	MS-V10	1	BRF1002		

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

Reported: 06/26/2008 17:01

## Water Analysis (General Chemistry)

BCL Sample ID: 0807708-03		Client Sample Name: 4186, U-6, U-6, 6/12/2008 9:52:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Calcium	69	mg/L	0.10		EPA-6010B	06/17/08	06/19/08 21:49	ARD	PE-OP1	1	BRF1118	ND	
Magnesium	110	mg/L	0.050		EPA-6010B	06/17/08	06/19/08 21:49	ARD	PE-OP1	1	BRF1118	ND	
Sodium	76	mg/L	0.50		EPA-6010B	06/17/08	06/19/08 21:49	ARD	PE-OP1	1	BRF1118	ND	
Potassium	1.3	mg/L	1.0		EPA-6010B	06/17/08	06/19/08 21:49	ARD	PE-OP1	1	BRF1118	ND	
Chloride	190	mg/L	0.50		EPA-300.0	06/13/08	06/13/08 13:09	VH1	IC2	1	BRF0926	ND	
Fluoride	0.11	mg/L	0.050		EPA-300.0	06/13/08	06/13/08 13:09	VH1	IC2	1	BRF0926	ND	
Nitrate as NO3	0.45	mg/L	0.44		EPA-300.0	06/13/08	06/13/08 13:09	VH1	IC2	1	BRF0926	ND	
Sulfate	27	mg/L	1.0		EPA-300.0	06/13/08	06/13/08 13:09	VH1	IC2	1	BRF0926	ND	
Total Dissolved Solids @ 180 C	860	mg/L	50		EPA-160.1	06/18/08	06/18/08 09:00	JLR	MANUAL	5	BRF1294	ND	

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

Reported: 06/26/2008 17:01

### Water Analysis (Metals)

BCL Sample ID: 0807708-03		Client Sample Name: 4186, U-6, U-6, 6/12/2008 9:52:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep	Run	Analyst	Instru- ment ID	Dilution	QC	MB	Lab Quals
						Date	Date/Time				Batch ID		
Antimony	ND	ug/L	100		EPA-6010B	06/17/08	06/19/08 21:49	ARD	PE-OP1	1	BRF1118	ND	
Arsenic	ND	ug/L	50		EPA-6010B	06/17/08	06/19/08 21:49	ARD	PE-OP1	1	BRF1118	ND	
Hexavalent Chromium	ND	ug/L	2.0		EPA-7196	06/13/08	06/13/08 06:53	TDC	KONE-1	1	BRF0982	ND	
Barium	600	ug/L	10		EPA-6010B	06/17/08	06/19/08 21:49	ARD	PE-OP1	1	BRF1118	ND	
Beryllium	ND	ug/L	10		EPA-6010B	06/17/08	06/19/08 21:49	ARD	PE-OP1	1	BRF1118	ND	
Cadmium	ND	ug/L	10		EPA-6010B	06/17/08	06/19/08 21:49	ARD	PE-OP1	1	BRF1118	ND	
Chromium	ND	ug/L	10		EPA-6010B	06/17/08	06/19/08 21:49	ARD	PE-OP1	1	BRF1118	ND	
Cobalt	ND	ug/L	50		EPA-6010B	06/17/08	06/19/08 21:49	ARD	PE-OP1	1	BRF1118	ND	
Copper	ND	ug/L	10		EPA-6010B	06/17/08	06/19/08 21:49	ARD	PE-OP1	1	BRF1118	ND	
Lead	ND	ug/L	50		EPA-6010B	06/17/08	06/19/08 21:49	ARD	PE-OP1	1	BRF1118	ND	
Manganese	3800	ug/L	10		EPA-6010B	06/17/08	06/19/08 21:49	ARD	PE-OP1	1	BRF1118	ND	
Mercury	ND	ug/L	0.20		EPA-7470A	06/18/08	06/20/08 12:45	MEV	CETAC1	1	BRF1132	ND	
Molybdenum	ND	ug/L	50		EPA-6010B	06/17/08	06/19/08 21:49	ARD	PE-OP1	1	BRF1118	ND	
Nickel	ND	ug/L	10		EPA-6010B	06/17/08	06/19/08 21:49	ARD	PE-OP1	1	BRF1118	ND	
Selenium	ND	ug/L	100		EPA-6010B	06/17/08	06/19/08 21:49	ARD	PE-OP1	1	BRF1118	ND	
Silver	ND	ug/L	10		EPA-6010B	06/17/08	06/19/08 21:49	ARD	PE-OP1	1	BRF1118	ND	
Thallium	ND	ug/L	100		EPA-6010B	06/17/08	06/19/08 21:49	ARD	PE-OP1	1	BRF1118	ND	
Vanadium	ND	ug/L	10		EPA-6010B	06/17/08	06/19/08 21:49	ARD	PE-OP1	1	BRF1118	ND	
Zinc	11	ug/L	10		EPA-6010B	06/17/08	06/19/08 21:49	ARD	PE-OP1	1	BRF1118	ND	
Total Antimony	ND	ug/L	100		EPA-6010B	06/19/08	06/23/08 13:00	ARD	PE-OP1	1	BRF1170	ND	
Total Arsenic	ND	ug/L	50		EPA-6010B	06/19/08	06/23/08 13:00	ARD	PE-OP1	1	BRF1170	ND	
Total Barium	910	ug/L	10		EPA-6010B	06/19/08	06/23/08 13:00	ARD	PE-OP1	1	BRF1170	ND	
Total Beryllium	ND	ug/L	10		EPA-6010B	06/19/08	06/23/08 13:00	ARD	PE-OP1	1	BRF1170	ND	

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Irvine, CA 92618

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

Reported: 06/26/2008 17:01

## Water Analysis (Metals)

BCL Sample ID: 0807708-03		Client Sample Name: 4186, U-6, U-6, 6/12/2008 9:52:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quais
Total Cadmium	ND	ug/L	10		EPA-6010B	06/19/08	06/23/08 13:00	ARD	PE-OP1	1	BRF1170	ND	
Total Chromium	ND	ug/L	10		EPA-6010B	06/19/08	06/23/08 13:00	ARD	PE-OP1	1	BRF1170	ND	
Total Cobalt	ND	ug/L	50		EPA-6010B	06/19/08	06/23/08 13:00	ARD	PE-OP1	1	BRF1170	ND	
Total Copper	ND	ug/L	10		EPA-6010B	06/19/08	06/23/08 13:00	ARD	PE-OP1	1	BRF1170	ND	
Total Lead	ND	ug/L	50		EPA-6010B	06/19/08	06/23/08 13:00	ARD	PE-OP1	1	BRF1170	ND	
Total Mercury	0.60	ug/L	0.20		EPA-7470A	06/20/08	06/23/08 11:25	MEV	CETAC1	1	BRF1292	ND	
Total Molybdenum	ND	ug/L	50		EPA-6010B	06/19/08	06/23/08 13:00	ARD	PE-OP1	1	BRF1170	ND	
Total Nickel	47	ug/L	10		EPA-6010B	06/19/08	06/23/08 13:00	ARD	PE-OP1	1	BRF1170	ND	
Total Selenium	ND	ug/L	100		EPA-6010B	06/19/08	06/23/08 13:00	ARD	PE-OP1	1	BRF1170	ND	
Total Silver	ND	ug/L	10		EPA-6010B	06/19/08	06/23/08 13:00	ARD	PE-OP1	1	BRF1170	ND	
Total Thallium	ND	ug/L	100		EPA-6010B	06/19/08	06/23/08 13:00	ARD	PE-OP1	1	BRF1170	ND	
Total Vanadium	ND	ug/L	10		EPA-6010B	06/19/08	06/23/08 13:00	ARD	PE-OP1	1	BRF1170	ND	
Total Zinc	ND	ug/L	50		EPA-6010B	06/19/08	06/23/08 13:00	ARD	PE-OP1	1	BRF1170	ND	

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

Reported: 06/26/2008 17:01

### Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0807708-04		Client Sample Name: 4186, U-7, U-7, 6/12/2008 10:45:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru- ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	1.9	ug/L	0.50		EPA-8260	06/17/08	06/18/08 03:59	SDU	MS-V10	1	BRF1002	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	06/17/08	06/18/08 03:59	SDU	MS-V10	1	BRF1002	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	06/17/08	06/18/08 03:59	SDU	MS-V10	1	BRF1002	ND	
Ethylbenzene	1.1	ug/L	0.50		EPA-8260	06/17/08	06/18/08 03:59	SDU	MS-V10	1	BRF1002	ND	
Methyl t-butyl ether	40	ug/L	0.50		EPA-8260	06/17/08	06/18/08 03:59	SDU	MS-V10	1	BRF1002	ND	
Toluene	ND	ug/L	0.50		EPA-8260	06/17/08	06/18/08 03:59	SDU	MS-V10	1	BRF1002	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	06/17/08	06/18/08 03:59	SDU	MS-V10	1	BRF1002	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	06/17/08	06/18/08 03:59	SDU	MS-V10	1	BRF1002	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	06/17/08	06/18/08 03:59	SDU	MS-V10	1	BRF1002	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	06/17/08	06/18/08 03:59	SDU	MS-V10	1	BRF1002	ND	
Ethanol	ND	ug/L	250		EPA-8260	06/17/08	06/18/08 03:59	SDU	MS-V10	1	BRF1002	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	06/17/08	06/18/08 03:59	SDU	MS-V10	1	BRF1002	ND	
Total Purgeable Petroleum Hydrocarbons	1200	ug/L	50		EPA-8260	06/17/08	06/18/08 03:59	SDU	MS-V10	1	BRF1002	ND	
1,2-Dichloroethane-d4 (Surrogate)	104	%	76 - 114 (LCL - UCL)		EPA-8260	06/17/08	06/18/08 03:59	SDU	MS-V10	1	BRF1002		
Toluene-d8 (Surrogate)	98.0	%	88 - 110 (LCL - UCL)		EPA-8260	06/17/08	06/18/08 03:59	SDU	MS-V10	1	BRF1002		
4-Bromofluorobenzene (Surrogate)	101	%	86 - 115 (LCL - UCL)		EPA-8260	06/17/08	06/18/08 03:59	SDU	MS-V10	1	BRF1002		

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

Reported: 06/26/2008 17:01

## Water Analysis (General Chemistry)

BCL Sample ID: 0807708-04		Client Sample Name: 4186, U-7, U-7, 6/12/2008 10:45:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Calcium	60	mg/L	0.10		EPA-6010B	06/17/08	06/19/08 21:51	ARD	PE-OP1	1	BRF1118	ND	
Magnesium	92	mg/L	0.050		EPA-6010B	06/17/08	06/19/08 21:51	ARD	PE-OP1	1	BRF1118	ND	
Sodium	59	mg/L	0.50		EPA-6010B	06/17/08	06/19/08 21:51	ARD	PE-OP1	1	BRF1118	ND	
Potassium	2.4	mg/L	1.0		EPA-6010B	06/17/08	06/19/08 21:51	ARD	PE-OP1	1	BRF1118	ND	
Chloride	120	mg/L	0.50		EPA-300.0	06/13/08	06/13/08 13:21	VH1	IC2	1	BRF0926	ND	
Fluoride	0.15	mg/L	0.050		EPA-300.0	06/13/08	06/13/08 13:21	VH1	IC2	1	BRF0926	ND	
Nitrate as NO3	19	mg/L	0.44		EPA-300.0	06/13/08	06/13/08 13:21	VH1	IC2	1	BRF0926	ND	
Sulfate	13	mg/L	1.0		EPA-300.0	06/13/08	06/13/08 13:21	VH1	IC2	1	BRF0926	ND	
Total Dissolved Solids @ 180 C	700	mg/L	50		EPA-160.1	06/18/08	06/18/08 09:00	JLR	MANUAL	5	BRF1294	ND	



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Project Manager: Anju Farfan

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### Water Analysis (Metals)

BCL Sample ID: 0807708-04		Client Sample Name: 4186, U-7, U-7, 6/12/2008 10:45:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Antimony	ND	ug/L	100		EPA-6010B	06/17/08	06/19/08 21:51	ARD	PE-OP1	1	BRF1118	ND	
Arsenic	ND	ug/L	50		EPA-6010B	06/17/08	06/19/08 21:51	ARD	PE-OP1	1	BRF1118	ND	
Hexavalent Chromium	ND	ug/L	2.0		EPA-7196	06/13/08	06/13/08 06:53	TDC	KONE-1	1	BRF0982	ND	
Barium	490	ug/L	10		EPA-6010B	06/17/08	06/19/08 21:51	ARD	PE-OP1	1	BRF1118	ND	
Beryllium	ND	ug/L	10		EPA-6010B	06/17/08	06/19/08 21:51	ARD	PE-OP1	1	BRF1118	ND	
Cadmium	ND	ug/L	10		EPA-6010B	06/17/08	06/19/08 21:51	ARD	PE-OP1	1	BRF1118	ND	
Chromium	ND	ug/L	10		EPA-6010B	06/17/08	06/19/08 21:51	ARD	PE-OP1	1	BRF1118	ND	
Cobalt	ND	ug/L	50		EPA-6010B	06/17/08	06/19/08 21:51	ARD	PE-OP1	1	BRF1118	ND	
Copper	ND	ug/L	10		EPA-6010B	06/17/08	06/19/08 21:51	ARD	PE-OP1	1	BRF1118	ND	
Lead	ND	ug/L	50		EPA-6010B	06/17/08	06/19/08 21:51	ARD	PE-OP1	1	BRF1118	ND	
Manganese	2400	ug/L	10		EPA-6010B	06/17/08	06/19/08 21:51	ARD	PE-OP1	1	BRF1118	ND	
Mercury	ND	ug/L	0.20		EPA-7470A	06/18/08	06/20/08 12:47	MEV	CETAC1	1	BRF1132	ND	
Molybdenum	ND	ug/L	50		EPA-6010B	06/17/08	06/19/08 21:51	ARD	PE-OP1	1	BRF1118	ND	
Nickel	ND	ug/L	10		EPA-6010B	06/17/08	06/19/08 21:51	ARD	PE-OP1	1	BRF1118	ND	
Selenium	ND	ug/L	100		EPA-6010B	06/17/08	06/19/08 21:51	ARD	PE-OP1	1	BRF1118	ND	
Silver	ND	ug/L	10		EPA-6010B	06/17/08	06/19/08 21:51	ARD	PE-OP1	1	BRF1118	ND	
Thallium	ND	ug/L	100		EPA-6010B	06/17/08	06/19/08 21:51	ARD	PE-OP1	1	BRF1118	ND	
Vanadium	ND	ug/L	10		EPA-6010B	06/17/08	06/19/08 21:51	ARD	PE-OP1	1	BRF1118	ND	
Zinc	11	ug/L	10		EPA-6010B	06/17/08	06/19/08 21:51	ARD	PE-OP1	1	BRF1118	ND	
Total Antimony	ND	ug/L	100		EPA-6010B	06/19/08	06/23/08 13:08	ARD	PE-OP1	1	BRF1170	ND	
Total Arsenic	ND	ug/L	50		EPA-6010B	06/19/08	06/23/08 13:08	ARD	PE-OP1	1	BRF1170	ND	
Total Barium	520	ug/L	10		EPA-6010B	06/19/08	06/23/08 13:08	ARD	PE-OP1	1	BRF1170	ND	
Total Beryllium	ND	ug/L	10		EPA-6010B	06/19/08	06/23/08 13:08	ARD	PE-OP1	1	BRF1170	ND	

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Irvine, CA 92618

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

Reported: 06/26/2008 17:01

## Water Analysis (Metals)

BCL Sample ID: 0807708-04		Client Sample Name: 4186, U-7, U-7, 6/12/2008 10:45:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Total Cadmium	ND	ug/L	10		EPA-6010B	06/19/08	06/23/08 13:08	ARD	PE-OP1	1	BRF1170	ND	
Total Chromium	10	ug/L	10		EPA-6010B	06/19/08	06/23/08 13:08	ARD	PE-OP1	1	BRF1170	ND	
Total Cobalt	ND	ug/L	50		EPA-6010B	06/19/08	06/23/08 13:08	ARD	PE-OP1	1	BRF1170	ND	
Total Copper	ND	ug/L	10		EPA-6010B	06/19/08	06/23/08 13:08	ARD	PE-OP1	1	BRF1170	ND	
Total Lead	ND	ug/L	50		EPA-6010B	06/19/08	06/23/08 13:08	ARD	PE-OP1	1	BRF1170	ND	
Total Mercury	ND	ug/L	0.20		EPA-7470A	06/20/08	06/23/08 11:10	MEV	CETAC1	1	BRF1292	ND	
Total Molybdenum	ND	ug/L	50		EPA-6010B	06/19/08	06/23/08 13:08	ARD	PE-OP1	1	BRF1170	ND	
Total Nickel	38	ug/L	10		EPA-6010B	06/19/08	06/23/08 13:08	ARD	PE-OP1	1	BRF1170	ND	
Total Selenium	ND	ug/L	100		EPA-6010B	06/19/08	06/23/08 13:08	ARD	PE-OP1	1	BRF1170	ND	
Total Silver	ND	ug/L	10		EPA-6010B	06/19/08	06/23/08 13:08	ARD	PE-OP1	1	BRF1170	ND	
Total Thallium	ND	ug/L	100		EPA-6010B	06/19/08	06/23/08 13:08	ARD	PE-OP1	1	BRF1170	ND	
Total Vanadium	ND	ug/L	10		EPA-6010B	06/19/08	06/23/08 13:08	ARD	PE-OP1	1	BRF1170	ND	
Total Zinc	ND	ug/L	50		EPA-6010B	06/19/08	06/23/08 13:08	ARD	PE-OP1	1	BRF1170	ND	

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

Reported: 06/26/2008 17:01

## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0807708-05		Client Sample Name: 4186, U-3, U-3, 6/12/2008 10:25:00AM												
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Benzene	4.1	ug/L	1.0		EPA-8260	06/17/08	06/19/08 12:40	SDU	MS-V10	2	BRF1002	ND	A01	
1,2-Dibromoethane	ND	ug/L	1.0		EPA-8260	06/17/08	06/19/08 12:40	SDU	MS-V10	2	BRF1002	ND	A01	
1,2-Dichloroethane	ND	ug/L	1.0		EPA-8260	06/17/08	06/19/08 12:40	SDU	MS-V10	2	BRF1002	ND	A01	
Ethylbenzene	ND	ug/L	1.0		EPA-8260	06/17/08	06/19/08 12:40	SDU	MS-V10	2	BRF1002	ND	A01	
Methyl t-butyl ether	27	ug/L	1.0		EPA-8260	06/17/08	06/19/08 12:40	SDU	MS-V10	2	BRF1002	ND	A01	
Toluene	ND	ug/L	1.0		EPA-8260	06/17/08	06/19/08 12:40	SDU	MS-V10	2	BRF1002	ND	A01	
Total Xylenes	ND	ug/L	2.0		EPA-8260	06/17/08	06/19/08 12:40	SDU	MS-V10	2	BRF1002	ND	A01	
t-Amyl Methyl ether	ND	ug/L	1.0		EPA-8260	06/17/08	06/19/08 12:40	SDU	MS-V10	2	BRF1002	ND	A01	
t-Butyl alcohol	21000	ug/L	100		EPA-8260	06/17/08	06/17/08 19:43	SDU	MS-V10	10	BRF1002	ND	A01	
Diisopropyl ether	ND	ug/L	1.0		EPA-8260	06/17/08	06/19/08 12:40	SDU	MS-V10	2	BRF1002	ND	A01	
Ethanol	ND	ug/L	500		EPA-8260	06/17/08	06/19/08 12:40	SDU	MS-V10	2	BRF1002	ND	A01	
Ethyl t-butyl ether	ND	ug/L	1.0		EPA-8260	06/17/08	06/19/08 12:40	SDU	MS-V10	2	BRF1002	ND	A01	
Total Purgeable Petroleum Hydrocarbons	770	ug/L	100		EPA-8260	06/17/08	06/19/08 12:40	SDU	MS-V10	2	BRF1002	ND	A01	
1,2-Dichloroethane-d4 (Surrogate)	108	%	76 - 114 (LCL - UCL)		EPA-8260	06/17/08	06/17/08 19:43	SDU	MS-V10	10	BRF1002			
1,2-Dichloroethane-d4 (Surrogate)	105	%	76 - 114 (LCL - UCL)		EPA-8260	06/17/08	06/19/08 12:40	SDU	MS-V10	2	BRF1002			
Toluene-d8 (Surrogate)	93.9	%	88 - 110 (LCL - UCL)		EPA-8260	06/17/08	06/17/08 19:43	SDU	MS-V10	10	BRF1002			
Toluene-d8 (Surrogate)	98.6	%	88 - 110 (LCL - UCL)		EPA-8260	06/17/08	06/19/08 12:40	SDU	MS-V10	2	BRF1002			
4-Bromofluorobenzene (Surrogate)	99.4	%	86 - 115 (LCL - UCL)		EPA-8260	06/17/08	06/19/08 12:40	SDU	MS-V10	2	BRF1002			
4-Bromofluorobenzene (Surrogate)	104	%	86 - 115 (LCL - UCL)		EPA-8260	06/17/08	06/17/08 19:43	SDU	MS-V10	10	BRF1002			

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

Reported: 06/26/2008 17:01

## Water Analysis (Metals)

BCL Sample ID: 0807708-05		Client Sample Name: 4186, U-3, U-3, 6/12/2008 10:25:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quais
Total Antimony	ND	ug/L	100		EPA-6010B	06/19/08	06/23/08 13:09	ARD	PE-OP1	1	BRF1170	ND	
Total Arsenic	210	ug/L	50		EPA-6010B	06/19/08	06/23/08 13:09	ARD	PE-OP1	1	BRF1170	ND	
Total Barium	2800	ug/L	10		EPA-6010B	06/19/08	06/23/08 13:09	ARD	PE-OP1	1	BRF1170	ND	
Total Beryllium	ND	ug/L	10		EPA-6010B	06/19/08	06/23/08 13:09	ARD	PE-OP1	1	BRF1170	ND	
Total Cadmium	ND	ug/L	10		EPA-6010B	06/19/08	06/23/08 13:09	ARD	PE-OP1	1	BRF1170	ND	
Total Chromium	980	ug/L	10		EPA-6010B	06/19/08	06/23/08 13:09	ARD	PE-OP1	1	BRF1170	ND	
Total Cobalt	350	ug/L	50		EPA-6010B	06/19/08	06/23/08 13:09	ARD	PE-OP1	1	BRF1170	ND	
Total Copper	590	ug/L	10		EPA-6010B	06/19/08	06/23/08 13:09	ARD	PE-OP1	1	BRF1170	ND	
Total Lead	160	ug/L	50		EPA-6010B	06/19/08	06/23/08 13:09	ARD	PE-OP1	1	BRF1170	ND	
Total Mercury	2.4	ug/L	0.20		EPA-7470A	06/20/08	06/23/08 11:31	MEV	CETAC1	1	BRF1292	ND	
Total Molybdenum	81	ug/L	50		EPA-6010B	06/19/08	06/23/08 13:09	ARD	PE-OP1	1	BRF1170	ND	
Total Nickel	2800	ug/L	10		EPA-6010B	06/19/08	06/23/08 13:09	ARD	PE-OP1	1	BRF1170	ND	
Total Selenium	ND	ug/L	100		EPA-6010B	06/19/08	06/23/08 13:09	ARD	PE-OP1	1	BRF1170	ND	
Total Silver	ND	ug/L	10		EPA-6010B	06/19/08	06/23/08 13:09	ARD	PE-OP1	1	BRF1170	ND	
Total Thallium	ND	ug/L	100		EPA-6010B	06/19/08	06/23/08 13:09	ARD	PE-OP1	1	BRF1170	ND	
Total Vanadium	410	ug/L	10		EPA-6010B	06/19/08	06/23/08 13:09	ARD	PE-OP1	1	BRF1170	ND	
Total Zinc	970	ug/L	50		EPA-6010B	06/19/08	06/23/08 13:09	ARD	PE-OP1	1	BRF1170	ND	

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Project Number: [none]  
Project Manager: Anju Farfan

Reported: 06/26/2008 17:01

## 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		
									Percent Recovery	RPD	Percent Recovery Lab Quals
Benzene	BRF1002	Matrix Spike	0807421-28	0	27.040	25.000	ug/L		108		70 - 130
		Matrix Spike Duplicate	0807421-28	0	24.280	25.000	ug/L	10.6	97.1	20	70 - 130
Toluene	BRF1002	Matrix Spike	0807421-28	0	27.050	25.000	ug/L		108		70 - 130
		Matrix Spike Duplicate	0807421-28	0	24.160	25.000	ug/L	11.1	96.6	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	BRF1002	Matrix Spike	0807421-28	ND	9.9300	10.000	ug/L		99.3		76 - 114
		Matrix Spike Duplicate	0807421-28	ND	9.7400	10.000	ug/L		97.4		76 - 114
Toluene-d8 (Surrogate)	BRF1002	Matrix Spike	0807421-28	ND	9.8400	10.000	ug/L		98.4		88 - 110
		Matrix Spike Duplicate	0807421-28	ND	9.7900	10.000	ug/L		97.9		88 - 110
4-Bromofluorobenzene (Surrogate)	BRF1002	Matrix Spike	0807421-28	ND	10.040	10.000	ug/L		100		86 - 115
		Matrix Spike Duplicate	0807421-28	ND	10.150	10.000	ug/L		102		86 - 115

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

Reported: 06/26/2008 17:01

## Water Analysis (General Chemistry)

### Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits	
										RPD	Percent Recovery Lab Quals
Chloride	BRF0926	Duplicate	0807708-01	38.252	37.894		mg/L	0.9		10	
		Matrix Spike	0807708-01	38.252	152.22	101.01	mg/L		113		80 - 120
		Matrix Spike Duplicate	0807708-01	38.252	152.04	101.01	mg/L	0	113	10	80 - 120
Fluoride	BRF0926	Duplicate	0807708-01	0.14200	0.13800		mg/L	2.9		10	
		Matrix Spike	0807708-01	0.14200	1.2646	1.0101	mg/L		111		80 - 120
		Matrix Spike Duplicate	0807708-01	0.14200	1.2677	1.0101	mg/L	0	111	10	80 - 120
Nitrate as NO3	BRF0926	Duplicate	0807708-01	0	ND		mg/L			10	
		Matrix Spike	0807708-01	0	23.489	22.358	mg/L		105		80 - 120
		Matrix Spike Duplicate	0807708-01	0	23.480	22.358	mg/L	0	105	10	80 - 120
Sulfate	BRF0926	Duplicate	0807708-01	30.069	29.689		mg/L	1.3		10	
		Matrix Spike	0807708-01	30.069	138.03	101.01	mg/L		107		80 - 120
		Matrix Spike Duplicate	0807708-01	30.069	138.05	101.01	mg/L	0	107	10	80 - 120
Calcium	BRF1118	Duplicate	0807901-01	11.940	11.652		mg/L	2.4		20	
		Matrix Spike	0807901-01	11.940	21.430	10.204	mg/L		93.0		75 - 125
		Matrix Spike Duplicate	0807901-01	11.940	21.447	10.204	mg/L	0.2	93.2	20	75 - 125
Magnesium	BRF1118	Duplicate	0807901-01	2.2775	2.2186		mg/L	2.6		20	
		Matrix Spike	0807901-01	2.2775	11.949	10.204	mg/L		94.8		75 - 125
		Matrix Spike Duplicate	0807901-01	2.2775	12.028	10.204	mg/L	0.8	95.6	20	75 - 125
Sodium	BRF1118	Duplicate	0807901-01	142.25	146.60		mg/L	3.0		20	
		Matrix Spike	0807901-01	142.25	158.04	10.204	mg/L		155		75 - 125 A03
		Matrix Spike Duplicate	0807901-01	142.25	156.38	10.204	mg/L	11.6	138	20	75 - 125 A03
Potassium	BRF1118	Duplicate	0807901-01	2.5772	2.6069		mg/L	1.1		20	
		Matrix Spike	0807901-01	2.5772	13.906	10.204	mg/L		111		75 - 125
		Matrix Spike Duplicate	0807901-01	2.5772	13.751	10.204	mg/L	0.9	110	20	75 - 125
Total Dissolved Solids @ 180 C	BRF1294	Duplicate	0807708-01	606.66	606.66		mg/L	0		10	

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Project Number: [none]  
Project Manager: Anju Farfan

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## Water Analysis (Metals) Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		
									Percent Recovery	RPD	Percent Recovery Lab Quals
Hexavalent Chromium	BRF0982	Duplicate	0807708-01	0.63300	ND		ug/L			10	
		Matrix Spike	0807708-01	0.63300	51.945	52.632	ug/L		97.5		85 - 115
		Matrix Spike Duplicate	0807708-01	0.63300	51.918	52.632	ug/L	0.1	97.4	10	85 - 115
Antimony	BRF1118	Duplicate	0807901-01	-1.1825	ND		ug/L			20	
		Matrix Spike	0807901-01	-1.1825	389.50	408.16	ug/L		95.4		75 - 125
		Matrix Spike Duplicate	0807901-01	-1.1825	386.50	408.16	ug/L	0.7	94.7	20	75 - 125
Arsenic	BRF1118	Duplicate	0807901-01	8.3110	ND		ug/L			20	
		Matrix Spike	0807901-01	8.3110	204.47	204.08	ug/L		96.1		75 - 125
		Matrix Spike Duplicate	0807901-01	8.3110	208.21	204.08	ug/L	2.0	98.0	20	75 - 125
Barium	BRF1118	Duplicate	0807901-01	23.328	20.929		ug/L	10.8		20	
		Matrix Spike	0807901-01	23.328	217.33	204.08	ug/L		95.1		75 - 125
		Matrix Spike Duplicate	0807901-01	23.328	219.79	204.08	ug/L	1.3	96.3	20	75 - 125
Beryllium	BRF1118	Duplicate	0807901-01	0.62038	ND		ug/L			20	
		Matrix Spike	0807901-01	0.62038	195.85	204.08	ug/L		95.7		75 - 125
		Matrix Spike Duplicate	0807901-01	0.62038	199.70	204.08	ug/L	1.9	97.5	20	75 - 125
Cadmium	BRF1118	Duplicate	0807901-01	0.10370	ND		ug/L			20	
		Matrix Spike	0807901-01	0.10370	204.18	204.08	ug/L		100		75 - 125
		Matrix Spike Duplicate	0807901-01	0.10370	207.55	204.08	ug/L	2.0	102	20	75 - 125
Chromium	BRF1118	Duplicate	0807901-01	-0.68172	ND		ug/L			20	
		Matrix Spike	0807901-01	-0.68172	189.89	204.08	ug/L		93.0		75 - 125
		Matrix Spike Duplicate	0807901-01	-0.68172	193.49	204.08	ug/L	1.9	94.8	20	75 - 125
Cobalt	BRF1118	Duplicate	0807901-01	0.41674	ND		ug/L			20	
		Matrix Spike	0807901-01	0.41674	201.99	204.08	ug/L		98.8		75 - 125
		Matrix Spike Duplicate	0807901-01	0.41674	207.56	204.08	ug/L	3.2	102	20	75 - 125
Copper	BRF1118	Duplicate	0807901-01	-1.4474	ND		ug/L			20	
		Matrix Spike	0807901-01	-1.4474	181.64	204.08	ug/L		89.0		75 - 125
		Matrix Spike Duplicate	0807901-01	-1.4474	173.58	204.08	ug/L	4.5	85.1	20	75 - 125

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

Reported: 06/26/2008 17:01

## Water Analysis (Metals)

### Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits	
										RPD	Percent Recovery Lab Quals
Lead	BRF1118	Duplicate	0807901-01	-0.37109	ND		ug/L			20	
		Matrix Spike	0807901-01	-0.37109	391.98	408.16	ug/L		96.0		75 - 125
		Matrix Spike Duplicate	0807901-01	-0.37109	405.43	408.16	ug/L	3.4	99.3	20	75 - 125
Manganese	BRF1118	Duplicate	0807901-01	50.831	52.854		ug/L	3.9		20	
		Matrix Spike	0807901-01	50.831	275.26	204.08	ug/L		110		75 - 125
		Matrix Spike Duplicate	0807901-01	50.831	278.16	204.08	ug/L	0.9	111	20	75 - 125
Molybdenum	BRF1118	Duplicate	0807901-01	0.99700	ND		ug/L			20	
		Matrix Spike	0807901-01	0.99700	197.38	204.08	ug/L		96.2		75 - 125
		Matrix Spike Duplicate	0807901-01	0.99700	202.40	204.08	ug/L	2.6	98.7	20	75 - 125
Nickel	BRF1118	Duplicate	0807901-01	0.49522	ND		ug/L			20	
		Matrix Spike	0807901-01	0.49522	409.98	408.16	ug/L		100		75 - 125
		Matrix Spike Duplicate	0807901-01	0.49522	414.50	408.16	ug/L	1.0	101	20	75 - 125
Selenium	BRF1118	Duplicate	0807901-01	63.235	ND		ug/L			20	A02
		Matrix Spike	0807901-01	63.235	237.91	204.08	ug/L		85.6		75 - 125
		Matrix Spike Duplicate	0807901-01	63.235	239.18	204.08	ug/L	0.7	86.2	20	75 - 125
Silver	BRF1118	Duplicate	0807901-01	0.12016	ND		ug/L			20	
		Matrix Spike	0807901-01	0.12016	94.302	102.04	ug/L		92.3		75 - 125
		Matrix Spike Duplicate	0807901-01	0.12016	91.509	102.04	ug/L	3.0	89.6	20	75 - 125
Thallium	BRF1118	Duplicate	0807901-01	11.118	ND		ug/L			20	
		Matrix Spike	0807901-01	11.118	428.61	408.16	ug/L		102		75 - 125
		Matrix Spike Duplicate	0807901-01	11.118	425.07	408.16	ug/L	1.0	101	20	75 - 125
Vanadium	BRF1118	Duplicate	0807901-01	0.49451	ND		ug/L			20	
		Matrix Spike	0807901-01	0.49451	206.01	204.08	ug/L		101		75 - 125
		Matrix Spike Duplicate	0807901-01	0.49451	207.03	204.08	ug/L	0	101	20	75 - 125
Zinc	BRF1118	Duplicate	0807901-01	1.6040	ND		ug/L			20	
		Matrix Spike	0807901-01	1.6040	212.52	204.08	ug/L		103		75 - 125
		Matrix Spike Duplicate	0807901-01	1.6040	222.57	204.08	ug/L	4.7	108	20	75 - 125

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

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## Water Analysis (Metals)

### Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		
									Percent Recovery	RPD	Percent Recovery Lab Quals
Mercury	BRF1132	Duplicate	0807648-01	0.0050000	ND		ug/L			20	
		Matrix Spike	0807648-01	0.0050000	0.88000	1.0000	ug/L		87.5		70 - 130
		Matrix Spike Duplicate	0807648-01	0.0050000	0.85500	1.0000	ug/L	2.9	85.0	20	70 - 130
Total Antimony	BRF1170	Duplicate	0807794-01	12.328	ND		ug/L			20	
		Matrix Spike	0807794-01	12.328	395.16	400.00	ug/L		95.7		75 - 125
		Matrix Spike Duplicate	0807794-01	12.328	377.87	400.00	ug/L	4.6	91.4	20	75 - 125
Total Arsenic	BRF1170	Duplicate	0807794-01	0.40612	ND		ug/L			20	
		Matrix Spike	0807794-01	0.40612	193.07	200.00	ug/L		96.3		75 - 125
		Matrix Spike Duplicate	0807794-01	0.40612	191.13	200.00	ug/L	0.9	95.4	20	75 - 125
Total Barium	BRF1170	Duplicate	0807794-01	17.551	18.352		ug/L	4.5		20	
		Matrix Spike	0807794-01	17.551	214.91	200.00	ug/L		98.7		75 - 125
		Matrix Spike Duplicate	0807794-01	17.551	214.41	200.00	ug/L	0.3	98.4	20	75 - 125
Total Beryllium	BRF1170	Duplicate	0807794-01	0.078754	ND		ug/L			20	
		Matrix Spike	0807794-01	0.078754	203.26	200.00	ug/L		102		75 - 125
		Matrix Spike Duplicate	0807794-01	0.078754	200.46	200.00	ug/L	2.0	100	20	75 - 125
Total Cadmium	BRF1170	Duplicate	0807794-01	0.59316	ND		ug/L			20	
		Matrix Spike	0807794-01	0.59316	206.26	200.00	ug/L		103		75 - 125
		Matrix Spike Duplicate	0807794-01	0.59316	201.88	200.00	ug/L	2.0	101	20	75 - 125
Total Chromium	BRF1170	Duplicate	0807794-01	-0.93728	ND		ug/L			20	
		Matrix Spike	0807794-01	-0.93728	194.15	200.00	ug/L		97.1		75 - 125
		Matrix Spike Duplicate	0807794-01	-0.93728	191.47	200.00	ug/L	1.5	95.7	20	75 - 125
Total Cobalt	BRF1170	Duplicate	0807794-01	1.7585	ND		ug/L			20	
		Matrix Spike	0807794-01	1.7585	202.16	200.00	ug/L		100		75 - 125
		Matrix Spike Duplicate	0807794-01	1.7585	197.82	200.00	ug/L	2.0	98.0	20	75 - 125
Total Copper	BRF1170	Duplicate	0807794-01	-0.97540	ND		ug/L			20	
		Matrix Spike	0807794-01	-0.97540	203.07	200.00	ug/L		102		75 - 125
		Matrix Spike Duplicate	0807794-01	-0.97540	200.91	200.00	ug/L	2.0	100	20	75 - 125

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Project: 4186  
Project Number: [none]  
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Reported: 06/26/2008 17:01

## Water Analysis (Metals)

### Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		
									Percent Recovery	RPD	Percent Recovery Lab Quals
Total Lead	BRF1170	Duplicate	0807794-01	4.4098	ND		ug/L		20		
		Matrix Spike	0807794-01	4.4098	393.14	400.00	ug/L	97.2		75 - 125	
		Matrix Spike Duplicate	0807794-01	4.4098	385.73	400.00	ug/L	2.0	95.3	20	75 - 125
Total Molybdenum	BRF1170	Duplicate	0807794-01	-0.11328	ND		ug/L		20		
		Matrix Spike	0807794-01	-0.11328	201.31	200.00	ug/L	101		75 - 125	
		Matrix Spike Duplicate	0807794-01	-0.11328	197.64	200.00	ug/L	2.2	98.8	20	75 - 125
Total Nickel	BRF1170	Duplicate	0807794-01	2.4475	ND		ug/L		20		
		Matrix Spike	0807794-01	2.4475	399.56	400.00	ug/L	99.3		75 - 125	
		Matrix Spike Duplicate	0807794-01	2.4475	391.78	400.00	ug/L	2.0	97.3	20	75 - 125
Total Selenium	BRF1170	Duplicate	0807794-01	11.569	ND		ug/L		20		
		Matrix Spike	0807794-01	11.569	ND	200.00	ug/L			75 - 125	Q03
		Matrix Spike Duplicate	0807794-01	11.569	ND	200.00	ug/L			20	75 - 125
Total Silver	BRF1170	Duplicate	0807794-01	-0.26907	ND		ug/L		20		
		Matrix Spike	0807794-01	-0.26907	100.98	100.00	ug/L	101		75 - 125	
		Matrix Spike Duplicate	0807794-01	-0.26907	100.39	100.00	ug/L	1.0	100	20	75 - 125
Total Thallium	BRF1170	Duplicate	0807794-01	-0.15560	ND		ug/L		20		
		Matrix Spike	0807794-01	-0.15560	398.36	400.00	ug/L	99.6		75 - 125	
		Matrix Spike Duplicate	0807794-01	-0.15560	389.10	400.00	ug/L	2.3	97.3	20	75 - 125
Total Vanadium	BRF1170	Duplicate	0807794-01	4.2641	ND		ug/L		20		
		Matrix Spike	0807794-01	4.2641	217.05	200.00	ug/L	106		75 - 125	
		Matrix Spike Duplicate	0807794-01	4.2641	214.19	200.00	ug/L	0.9	105	20	75 - 125
Total Zinc	BRF1170	Duplicate	0807794-01	9.3531	ND		ug/L		20		
		Matrix Spike	0807794-01	9.3531	211.51	200.00	ug/L	101		75 - 125	
		Matrix Spike Duplicate	0807794-01	9.3531	206.54	200.00	ug/L	2.4	98.6	20	75 - 125
Total Mercury	BRF1292	Duplicate	0807708-04RE1	0.047500	ND		ug/L		20		A02
		Matrix Spike	0807708-04RE1	0.047500	1.1200	1.0000	ug/L	107		70 - 130	
		Matrix Spike Duplicate	0807708-04RE1	0.047500	1.1650	1.0000	ug/L	4.6	112	20	70 - 130

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

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## 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	BRF1002	BRF1002-BS1	LCS	23.380	25.000	0.50	ug/L	93.5		70 - 130		
Toluene	BRF1002	BRF1002-BS1	LCS	23.600	25.000	0.50	ug/L	94.4		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BRF1002	BRF1002-BS1	LCS	10.030	10.000		ug/L	100		76 - 114		
Toluene-d8 (Surrogate)	BRF1002	BRF1002-BS1	LCS	10.220	10.000		ug/L	102		88 - 110		
4-Bromofluorobenzene (Surrogate)	BRF1002	BRF1002-BS1	LCS	10.120	10.000		ug/L	101		86 - 115		

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Project: 4186  
Project Number: [none]  
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Reported: 06/26/2008 17:01

## Water Analysis (General Chemistry)

### 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	
Chloride	BRF0926	BRF0926-BS1	LCS	106.79	100.00	0.50	mg/L	107		90 - 110		
Fluoride	BRF0926	BRF0926-BS1	LCS	1.0910	1.0000	0.050	mg/L	109		90 - 110		
Nitrate as NO3	BRF0926	BRF0926-BS1	LCS	22.993	22.134	0.44	mg/L	104		90 - 110		
Sulfate	BRF0926	BRF0926-BS1	LCS	102.96	100.00	1.0	mg/L	103		90 - 110		
Calcium	BRF1118	BRF1118-BS2	LCS	10.523	10.000	0.10	mg/L	105		85 - 115		
Magnesium	BRF1118	BRF1118-BS2	LCS	10.645	10.000	0.050	mg/L	106		85 - 115		
Sodium	BRF1118	BRF1118-BS2	LCS	9.7110	10.000	0.50	mg/L	97.1		85 - 115		
Potassium	BRF1118	BRF1118-BS2	LCS	9.2567	10.000	1.0	mg/L	92.6		85 - 115		
Total Dissolved Solids @ 180 C	BRF1294	BRF1294-BS1	LCS	590.00	586.00	50	mg/L	101		90 - 110		

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Certifications: California - ELAP Certification Number 1186; Nevada Administrative Code - NAC-445A

TRC  
21 Technology Drive  
Irvine, CA 92618

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

Reported: 06/26/2008 17:01

## Water Analysis (Metals)

### Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
Hexavalent Chromium	BRF0982	BRF0982-BS1	LCS	48.443	50.000	2.0	ug/L	96.9		85 - 115	
Antimony	BRF1118	BRF1118-BS1	LCS	361.25	400.00	100	ug/L	90.3		85 - 115	
Arsenic	BRF1118	BRF1118-BS1	LCS	197.58	200.00	50	ug/L	98.8		85 - 115	
Barium	BRF1118	BRF1118-BS1	LCS	189.15	200.00	10	ug/L	94.6		85 - 115	
Beryllium	BRF1118	BRF1118-BS1	LCS	190.60	200.00	10	ug/L	95.3		85 - 115	
Cadmium	BRF1118	BRF1118-BS1	LCS	196.70	200.00	10	ug/L	98.4		85 - 115	
Chromium	BRF1118	BRF1118-BS1	LCS	182.70	200.00	10	ug/L	91.4		85 - 115	
Cobalt	BRF1118	BRF1118-BS1	LCS	194.94	200.00	50	ug/L	97.5		85 - 115	
Copper	BRF1118	BRF1118-BS1	LCS	174.91	200.00	10	ug/L	87.5		85 - 115	
Lead	BRF1118	BRF1118-BS1	LCS	375.17	400.00	50	ug/L	93.8		85 - 115	
Manganese	BRF1118	BRF1118-BS1	LCS	208.11	200.00	10	ug/L	104		85 - 115	
Molybdenum	BRF1118	BRF1118-BS1	LCS	189.34	200.00	50	ug/L	94.7		85 - 115	
Nickel	BRF1118	BRF1118-BS1	LCS	386.04	400.00	10	ug/L	96.5		85 - 115	
Selenium	BRF1118	BRF1118-BS1	LCS	186.78	200.00	100	ug/L	93.4		85 - 115	
Silver	BRF1118	BRF1118-BS1	LCS	92.776	100.00	10	ug/L	92.8		85 - 115	
Thallium	BRF1118	BRF1118-BS1	LCS	393.48	400.00	100	ug/L	98.4		85 - 115	
Vanadium	BRF1118	BRF1118-BS1	LCS	196.14	200.00	10	ug/L	98.1		85 - 115	
Zinc	BRF1118	BRF1118-BS1	LCS	202.08	200.00	10	ug/L	101		85 - 115	
Mercury	BRF1132	BRF1132-BS1	LCS	0.90750	1.0000	0.20	ug/L	90.8		85 - 115	
Total Antimony	BRF1170	BRF1170-BS1	LCS	370.40	400.00	100	ug/L	92.6		85 - 115	
Total Arsenic	BRF1170	BRF1170-BS1	LCS	186.26	200.00	50	ug/L	93.1		85 - 115	
Total Barium	BRF1170	BRF1170-BS1	LCS	193.01	200.00	10	ug/L	96.5		85 - 115	
Total Beryllium	BRF1170	BRF1170-BS1	LCS	189.93	200.00	10	ug/L	95.0		85 - 115	

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

Reported: 06/26/2008 17:01

## Water Analysis (Metals)

### 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 Quais
										Percent Recovery	RPD	
Total Cadmium	BRF1170	BRF1170-BS1	LCS	191.40	200.00	10	ug/L	95.7		85 - 115		
Total Chromium	BRF1170	BRF1170-BS1	LCS	183.39	200.00	10	ug/L	91.7		85 - 115		
Total Cobalt	BRF1170	BRF1170-BS1	LCS	198.43	200.00	50	ug/L	99.2		85 - 115		
Total Copper	BRF1170	BRF1170-BS1	LCS	177.35	200.00	10	ug/L	88.7		85 - 115		
Total Lead	BRF1170	BRF1170-BS1	LCS	392.10	400.00	50	ug/L	98.0		85 - 115		
Total Molybdenum	BRF1170	BRF1170-BS1	LCS	188.56	200.00	50	ug/L	94.3		85 - 115		
Total Nickel	BRF1170	BRF1170-BS1	LCS	403.96	400.00	10	ug/L	101		85 - 115		
Total Selenium	BRF1170	BRF1170-BS1	LCS	181.40	200.00	100	ug/L	90.7		85 - 115		
Total Silver	BRF1170	BRF1170-BS1	LCS	92.061	100.00	10	ug/L	92.1		85 - 115		
Total Thallium	BRF1170	BRF1170-BS1	LCS	404.60	400.00	100	ug/L	101		85 - 115		
Total Vanadium	BRF1170	BRF1170-BS1	LCS	191.95	200.00	10	ug/L	96.0		85 - 115		
Total Zinc	BRF1170	BRF1170-BS1	LCS	206.65	200.00	50	ug/L	103		85 - 115		
Total Mercury	BRF1292	BRF1292-BS1	LCS	1.0350	1.0000	0.20	ug/L	104		85 - 115		

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TRC  
21 Technology Drive  
Irvine, CA 92618

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

Reported: 06/26/2008 17:01

## 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	BRF1002	BRF1002-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BRF1002	BRF1002-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BRF1002	BRF1002-BLK1	ND	ug/L	0.50		
Ethylbenzene	BRF1002	BRF1002-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BRF1002	BRF1002-BLK1	ND	ug/L	0.50		
Toluene	BRF1002	BRF1002-BLK1	ND	ug/L	0.50		
Total Xylenes	BRF1002	BRF1002-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BRF1002	BRF1002-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BRF1002	BRF1002-BLK1	ND	ug/L	10		
Diisopropyl ether	BRF1002	BRF1002-BLK1	ND	ug/L	0.50		
Ethanol	BRF1002	BRF1002-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BRF1002	BRF1002-BLK1	ND	ug/L	0.50		
Total Purgeable Petroleum Hydrocarbons	BRF1002	BRF1002-BLK1	ND	ug/L	50		
1,2-Dichloroethane-d4 (Surrogate)	BRF1002	BRF1002-BLK1	102	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BRF1002	BRF1002-BLK1	99.7	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BRF1002	BRF1002-BLK1	98.3	%	86 - 115 (LCL - UCL)		

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TRC  
21 Technology Drive  
Irvine, CA 92618

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

Reported: 06/26/2008 17:01

## Water Analysis (General Chemistry)

### Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Chloride	BRF0926	BRF0926-BLK1	ND	mg/L	0.50		
Fluoride	BRF0926	BRF0926-BLK1	ND	mg/L	0.050		
Nitrate as NO3	BRF0926	BRF0926-BLK1	ND	mg/L	0.44		
Sulfate	BRF0926	BRF0926-BLK1	ND	mg/L	1.0		
Calcium	BRF1118	BRF1118-BLK2	ND	mg/L	0.10		
Magnesium	BRF1118	BRF1118-BLK2	ND	mg/L	0.050		
Sodium	BRF1118	BRF1118-BLK2	ND	mg/L	0.50		
Potassium	BRF1118	BRF1118-BLK2	ND	mg/L	1.0		
Total Dissolved Solids @ 180 C	BRF1294	BRF1294-BLK1	ND	mg/L	6.7		

TRC 21 Technology Drive Irvine, CA 92618	Project: 4186 Project Number: [none] Project Manager: Anju Farfan	Reported: 06/26/2008 17:01
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## Water Analysis (Metals)

### Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Hexavalent Chromium	BRF0982	BRF0982-BLK1	ND	ug/L	2.0		
Antimony	BRF1118	BRF1118-BLK1	ND	ug/L	100		
Arsenic	BRF1118	BRF1118-BLK1	ND	ug/L	50		
Barium	BRF1118	BRF1118-BLK1	ND	ug/L	10		
Beryllium	BRF1118	BRF1118-BLK1	ND	ug/L	10		
Cadmium	BRF1118	BRF1118-BLK1	ND	ug/L	10		
Chromium	BRF1118	BRF1118-BLK1	ND	ug/L	10		
Cobalt	BRF1118	BRF1118-BLK1	ND	ug/L	50		
Copper	BRF1118	BRF1118-BLK1	ND	ug/L	10		
Lead	BRF1118	BRF1118-BLK1	ND	ug/L	50		
Manganese	BRF1118	BRF1118-BLK1	ND	ug/L	10		
Molybdenum	BRF1118	BRF1118-BLK1	ND	ug/L	50		
Nickel	BRF1118	BRF1118-BLK1	ND	ug/L	10		
Selenium	BRF1118	BRF1118-BLK1	ND	ug/L	100		
Silver	BRF1118	BRF1118-BLK1	ND	ug/L	10		
Thallium	BRF1118	BRF1118-BLK1	ND	ug/L	100		
Vanadium	BRF1118	BRF1118-BLK1	ND	ug/L	10		
Zinc	BRF1118	BRF1118-BLK1	ND	ug/L	10		
Mercury	BRF1132	BRF1132-BLK1	ND	ug/L	0.20		
Total Antimony	BRF1170	BRF1170-BLK1	ND	ug/L	100		
Total Arsenic	BRF1170	BRF1170-BLK1	ND	ug/L	50		
Total Barium	BRF1170	BRF1170-BLK1	ND	ug/L	10		
Total Beryllium	BRF1170	BRF1170-BLK1	ND	ug/L	10		
Total Cadmium	BRF1170	BRF1170-BLK1	ND	ug/L	10		

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 Certifications: California - ELAP Certification Number 1186; Nevada Administrative Code - NAC-445A

Submission #: 08-7708

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 A/C  
Temperature: 26.25 C  
Thermometer ID: #48

Emissivity .97  
Container RTA

Date/Time 6/12/08 2045  
Analyst Init JNW

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

Comments:             
Sample Numbering Completed By: Alan Date/Time: 6.12.8 2100  
A = Actual / C = Corrected

**BC LABORATORIES, INC.**

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

**CHAIN OF CUSTODY**

08-778

**Analysis Requested**

Bill to: Conoco Phillips/ TRC		Consultant Firm: TRC		MATRIX (GW) Ground-water (S) Soil (WW) Waste-water (SL) Sludge	BTEX/MTBE by 8021B, Gas by 8015 Total carb 17 metals TPH DIESEL by 8015 8260 full list w/ oxygenates BTEX/MTBE/OXYS BY 8260B ETHANOL by 8260B TPH -G by GC/MS EDB/EDC by 8260B Hexavalent chromium, TDS, Dissolved Carb Metals, Dissolved calcium dissolved Sodium dissolved manganese, dissolved potassium, dissolved magnesium chloride, sulfate, nitrate, fluoride	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:		Workorder # 01237-4509118462				
Conoco Phillips Mgr: Bill Borgh		Project #: 154771				
		Sampler Name: Ricky H.				

Lab#	Sample Description	Field Point Name	Date & Time Sampled										
	-1	U-4	6/12/08 0735	GW	X		X	X	X	X	X	X	STD
	-2	U-5	0802										
	-3	U-6	0952										
	-4	U-7	1045										
	-5	U-3	1025			free							

CHK BY JWW	DISTRIBUTION COR/MAR	SHORT HOLDING TIME			
	SUB-OUT <input type="checkbox"/>	Cr <sup>6+</sup>	NO <sub>2</sub>	NO <sub>3</sub>	OP SS
		DO	Cl <sub>2</sub>	BOD	MBAS GOT

Comments:  GLOBAL ID: T0600101777	Relinquished by: (Signature) 	Received by: BCL P.BINS	Date & Time 6/12/08 1530
	Relinquished by: (Signature) P.BINS BCL 6/12/08 1645	Received by: 	Date & Time 6-12-08 1645
	Relinquished by: (Signature) Refreynd 6-12-08 2050	Received by: 	Date & Time 6-12-8 2050

## **STATEMENTS**

### **Purge Water Disposal**

Non-hazardous groundwater produced during purging and sampling of monitoring wells was accumulated at TRC's groundwater monitoring facility at Concord, California, for transportation by a licensed carrier, 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 others.

### **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.