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Alameda County
Environmental Health



76 Broadway
Sacramento, California 95818

February 3, 2009

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

Re: *Quarterly Summary report (QSR)—Fourth Quarter 2008*
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) 558-7666.

Sincerely,

A handwritten signature in black ink, appearing to read "Terry L. Grayson".

Terry L. Grayson
Site Manager
Risk Management & Remediation

February 3, 2009

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

**Re: Quarterly Summary Report – Fourth Quarter 2008
And Sensitive receptor Survey**
Fuel Leak Case No. RO0000436



Dear Mr. Wickham:

On behalf of ConocoPhillips (COP), Delta Consultants (Delta) is submitting this Quarterly Summary Report – Fourth Quarter 2008 and forwarding a copy of TRC Solutions, Inc. (TRC's) *Quarterly Monitoring Report, October through December 2008*, dated January 13, 2009, for the following location:

Service Station

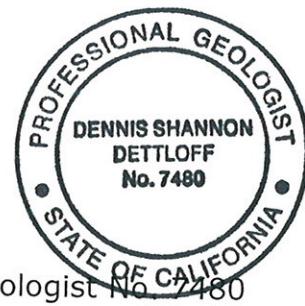
Former 76 Station No. 4186

Location

1771 First Street
Livermore,
California

Sincerely,
DELTA CONSULTANTS

Dennis S. Dettloff, P.G.
Senior Project Manager
California Registered Professional Geologist



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

QUARTERLY SUMMARY REPORT
Sensitive Receptor Survey
Fourth Quarter 2008
Former 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 ($\mu\text{g}/\text{L}$), 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.

In September and October 2008, eight on-site monitoring wells (U-8 to U-15) were installed under the supervision of Delta Consultants. Soil samples collected and submitted for analysis from borings U-8 to U-11 reported total purgeable petroleum hydrocarbons (TPPH) ranging from 0.45 to 1,900 mg/kg (U-8 to U-11), benzene at 0.7 mg/kg (U-10@48), and MTBE ranging from 0.29 to 0.54 mg/kg (U-10 and U-11). The details of this investigation were summarized in a *Site Investigation Report* dated, November 11, 2008.

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 December 3, 2008 monitoring and sampling event, each of the monitoring wells, U-1 through U-7, screened in the upper and middle water bearing zones were dry, so no groundwater samples were collected and submitted for analysis from these monitoring wells. During the December 3, 2008 monitoring and sampling event, depth to groundwater ranged from 49.58 to 50.74 feet below ground surface and the groundwater flow direction in the lower water bearing zone was interpreted to be to the west with a gradient of 0.015 foot per foot (ft/ft). Historic groundwater flow directions are shown on rose diagrams presented as Attachment B.

Contaminants of Concern:

The following analytical results are from the fourth quarter 2008 monitoring event.

TPPH: TPPH were below the laboratory's indicated reporting limits in each of the four groundwater samples collected and submitted for analysis during the current sampling event.

Benzene: Benzene was below the laboratory's reporting limit in each of the four groundwater samples collected and submitted for analysis during the current sampling event.

MTBE: MTBE was above the laboratory's indicated reporting limits in the groundwater samples collected and submitted for analysis from monitoring wells U-13 (0.85 µg/L) and U-14 (1.4 µg/L) during the current sampling event.

Additionally, toluene, ethyl-benzene, and total xylenes were below the laboratory's indicated reporting limits in each of the four groundwater samples collected and submitted for analysis 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 2a through 2d in TRC's *Quarterly Monitoring Report, October through December 2008*, dated January 13, 2009.

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 quarterly groundwater monitoring.

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

No correspondence was received or sent during the fourth quarter 2008.

THIS QUARTER ACTIVITIES (Fourth Quarter 2008)

1. TRC conducted the quarterly monitoring and sampling at the site.
2. In October 2008, Delta completed the installation of 8 monitoring wells on-site and submitted a *Site Investigation Report* dated, November 11, 2008.

WASTE DISPOSAL SUMMARY

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

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

NEXT QUARTER ACTIVITIES (First Quarter 2009)

1. TRC will conduct quarterly groundwater monitoring and sampling at the site.
2. Delta will submit a Quarterly Summary Report for the first quarter of 2009.

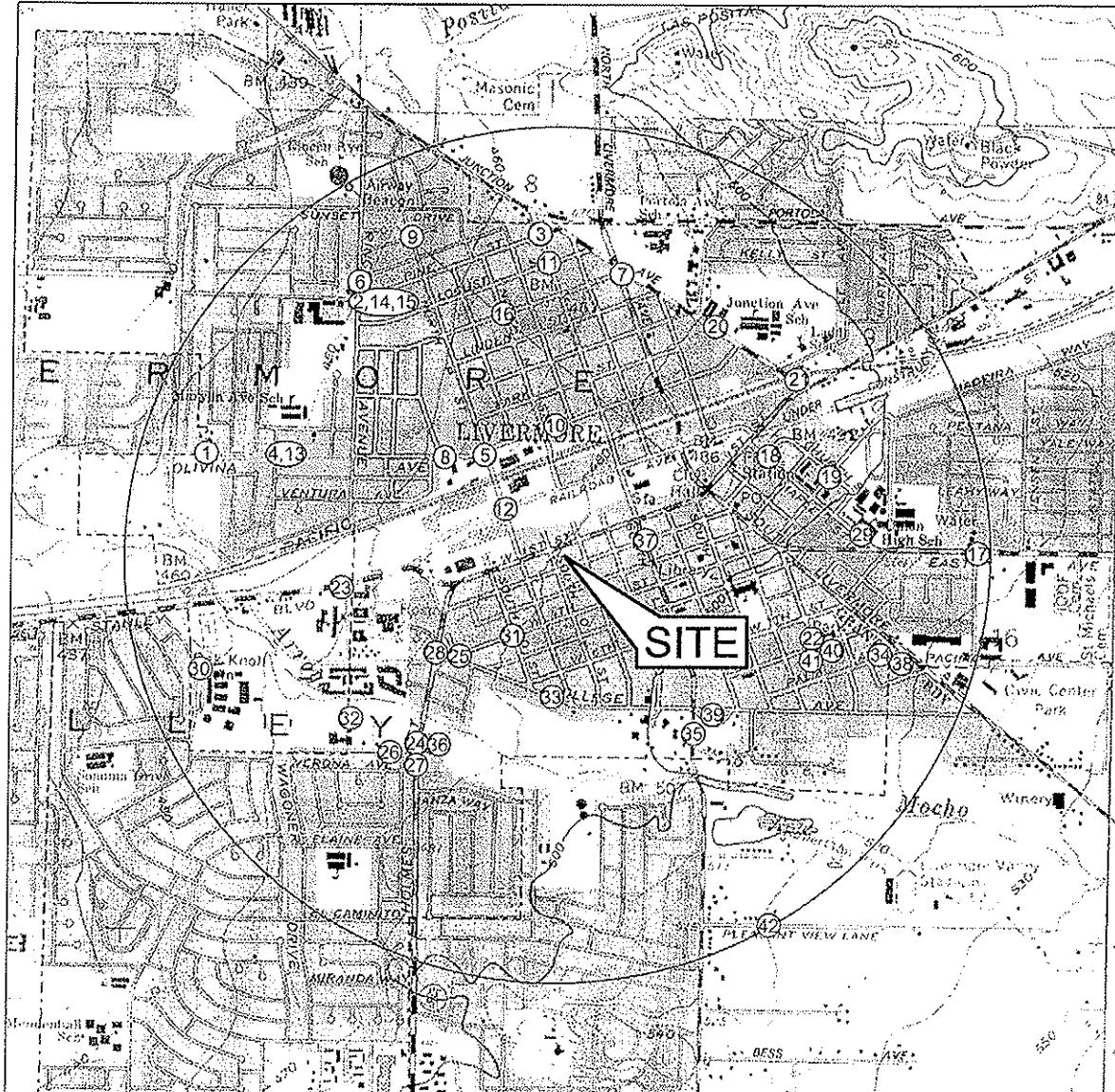
CONSULTANT: Delta Consultants

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

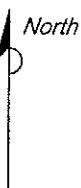


FIGURE 1

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



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

DWR ¹ Well No.	Address	City	State	Zip	Owner	Well Type	Distance from Site (miles)	Direction Relative to Site
1-3S/2E-7R3	732 Olivina Avenue	Livermore	CA		California Water Service Co.	Public/Production Well	0.9	NW
2-3S/2E-8E80?	Pine St. at Rincon Ave.	Livermore	CA		City of Livermore		0.8	NW
3-3S/2E-8F1?	Pine Street at Arroyo Road	Livermore	CA		California Water Service Co.	Municipal	0.7	NW
4-3S/2E-8N2?	40' south of Olivina St., 200' west of Albatross	Livermore	CA		California Water Service Co.		0.8	NW
5-3S/2E-2P1	sw of corner of Olivina and P st.	Livermore	CA		California Water Service Co.		0.3	NW
6-3S/2E-8E1	951 Rincon Ave	Livermore	CA		City of Livermore		0.8	NW
7-3S/2E-8H1	sw of North Livermore Avenue at Elm Street	Livermore	CA		California Water Service Co.	Municipal	0.7	NE
8-3S/2E-8P1	se of Olivina Avenue at Adelle Street	Livermore	CA		California Water Service Co.		0.3	NW
9-3S/2E-8F1?	sw of Juniper Street at N P Street	Livermore	CA		California Water Service Co.	Municipal	0.8	NW
10-3S/2E-8K1	1830 Chestnut St.	Livermore	CA		California Water Service Co.		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		PG&E	Cathodic protection	0.6	NW
13-3S/2E-8N2	se of Olivina Avenue at Albatross Avenue	Livermore	CA		California Water Service Co.	Municipal	0.3	NW
14-3S/2E-8E9	899 Rincon Avenue	Livermore	CA		California Water Service Co.	Municipal	0.7	NW
15-3S/2E-8E10	899 Rincon Avenue	Livermore	CA		ARCO Products, Co.	Recovery Well	0.8	NW
16-3S/2E-8G1	sw of Elm Street at N N Street	Livermore	CA		ARCO Products, Co.	Vapor Extraction	0.8	NW
17-3S/2E-9Q1	north of East Avenue at Dolores Street	Livermore	CA		California Water Service Co.	Municipal	0.6	NW
18-3S/2E-9P	Maple Street at Second Street	Livermore	CA		California Water Service Co.	Domestic/Municipal	1.0	E
19-3S/2E-9P1	2778 Fourth Street	Livermore	CA		PG&E	Cathodic protection	0.5	SW
20-3S/2E-9M1	403 Junction	Livermore	CA		California Water Service Co.	Municipal	0.7	NE
21-3S/2E-9L1	south side of First St. at Junction Ave.	Livermore	CA		Victor Baldi	Irrigation	0.6	NE
22-3S/2E-18CB1	811 South H.	Livermore	CA		California Water Service Co.	Municipal	0.7	NE
23-3S/2E-17C1	985 E. Stanley Blvd.	Livermore	CA		Leslie Holm		0.6	SE
24-3S/2E-17E1	south side Mocho Street, 0.3 mi west of Vallecitos Road	Livermore	CA		Fred Holden		0.5	SW
25-3S/32E-17F1	0.2 mi west of Holmes St. at College Ave.	Livermore	CA		W. J. Wagoner		0.8	SW
26-3S/2E-17L2	0.2 mi west of Vallecitos Rd., on Mocho St. 10' south of Mocho	Livermore	CA		U.S. Veterans Hospital		0.6	SW
27-3S/2E-17P1?	0.45 mi south of Mocho St on east side of Vallecitos Rd.	Livermore	CA		W. J. Wagoner		0.7	SW
28-3S/2E-17B1	Fourth St. at College Ave.	Livermore	CA		Adele Colldeweih (formerly C.A. Smith)		1.0	SW
29-3S/2E-17E5	Livermore High School, 600 Maple St.	Livermore	CA		California Water Service Co.		0.4	SW
30-3S/2E-17E4	Granada High School, 400 Wall St.	Livermore	CA		Livermore School District	Domestic/ Irrigation	0.7-0.8	NE
31-3S/2E-17B3	4th St. at Q St.	Livermore	CA		Livermore Valley School District	Irrigation/Test Well	0.7-1.0	SW
32-3S/2E-17J?	1000' west of Arroyo Rd., 150' south of Arroyo Mocho Creek	Livermore	CA		PG&E	Cathodic protection	0.3	SW
33-3S/2E-17?	1531 College Ave.	Livermore	CA		R. A. Hansen	Irrigation	0.6	SE
34-3S/2E-16B1	Palm Ave. between Livermore and Almond	Livermore	CA		Don Benton	Domestic	0.4	SW
35-3S/2E-16E1	954 South L. St.	Livermore	CA		California Water Service Co.		0.6-0.8	SE
36-3S/2E-16E2	300' east of Arroyo Rd., 150' north of Mocho Creek	Livermore	CA		Livermore Sanitarium		0.5	SE
37-3S/2E-16?	Ferrario Winery, 2nd St. and L St.	Livermore	CA		Livermore Sanitarium		0.6	SE
38-3S/2E-16B1	sw of Palm Avenue and South Livermore Avenue	Livermore	CA		Ferrario Winery		0.2	E
39-3S/2E-16E6	300' se of College St. at L St.	Livermore	CA		California Water Service Co.		0.8	SE
40-3S/2E-16C3	Eighth St. at S H St.	Livermore	CA		First Baptist Church	Irrigation	0.6	SE
41-3S/2E-16C1	787 S H Street	Livermore	CA		PG&E	Cathodic protection	0.6	SE
42-3S/2E-1681?	2486 Pleasant View Lane	Livermore	CA		Ben F. Mingoa	Municipal	0.6	SE
					George Sharp	Domestic	1.0	SE

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

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

DWR: Department of Water Resources

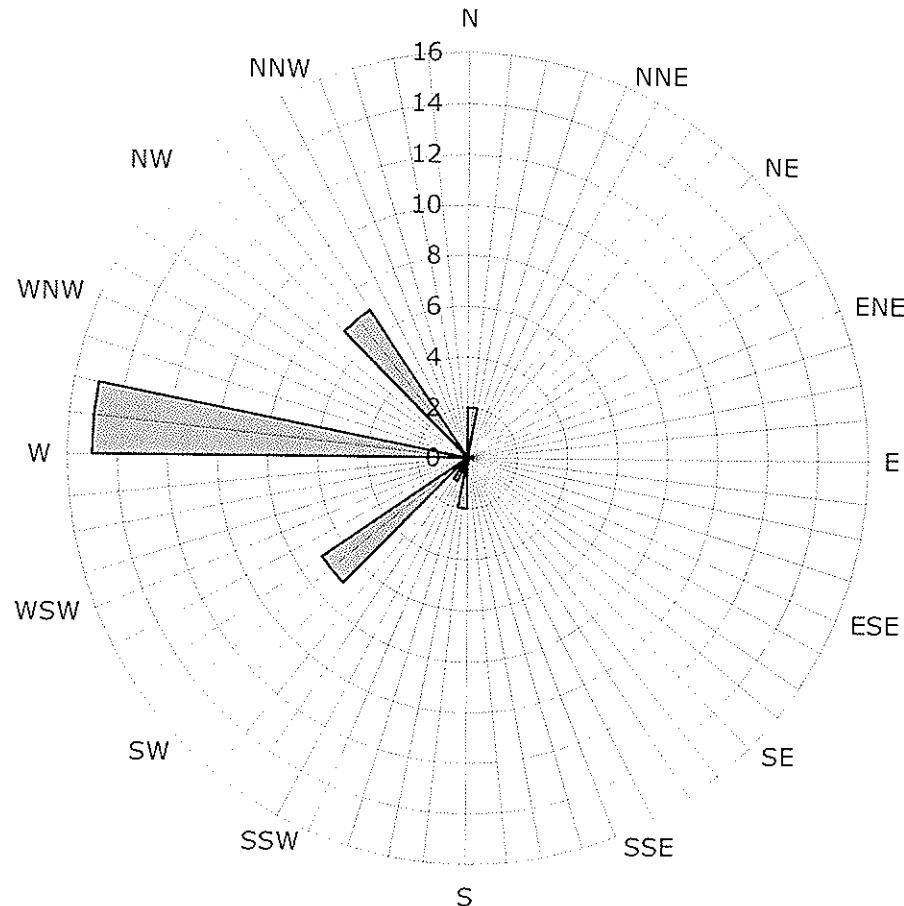
¹Well Locations shown on Figure 1.

²Specific address cannot be located on map.

Attachment B

Historic Groundwater Flow Directions

Historic Groundwater Flow Directions
Shallow and Intermediate Zone Monitoring Wells
ConocoPhillips Site No. 4186
1771 First Street
Livermore, California



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

Groundwater Flow Direction

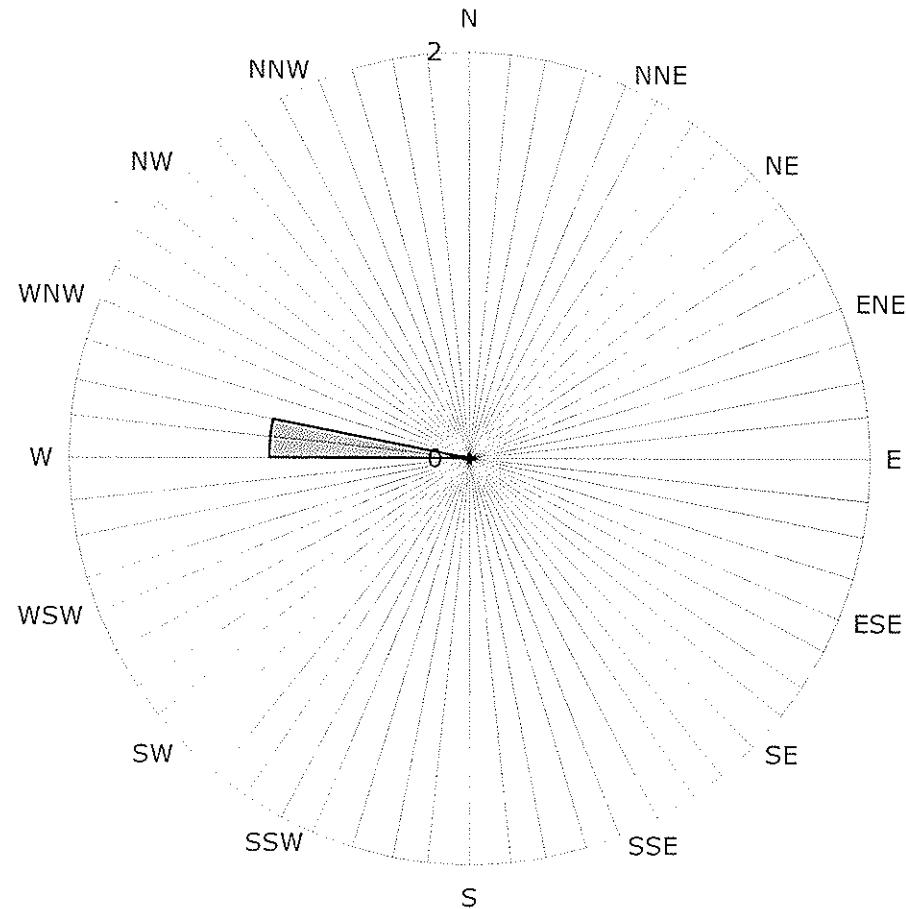
Historic Groundwater Flow Directions

Deep Zone Monitoring Wells

ConocoPhillips Site No. 4186

1771 First Street

Livermore, California



Legend

Concentric circles represent quarterly monitoring events
Fourth Quarter 2008

1 data point shown

Groundwater Flow Direction



21 Technology Drive
Irvine, CA 92618

949.727.9336 PHONE
949.727.7399 FAX

www.TRCsolutions.com

DATE: January 13, 2009

TO: ConocoPhillips Company
76 Broadway
Sacramento, California 95818

ATTN: MR. TERRY GRAYSON

SITE: 76 STATION 4186
1771 FIRST STREET
LIVERMORE, CALIFORNIA

RE: QUARTERLY MONITORING REPORT
OCTOBER THROUGH DECEMBER 2008

Dear Mr. Grayson,

Please find enclosed our Quarterly Monitoring Report for 76 Station 4186, located at 1771 First Street, Livermore, California. If you have any questions regarding this report, please call us at (949) 727-9336.

Sincerely,

TRC

Anju Farfan
Groundwater Program Operations Manager

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

Enclosures
20-0400/4186R21.QMS.doc

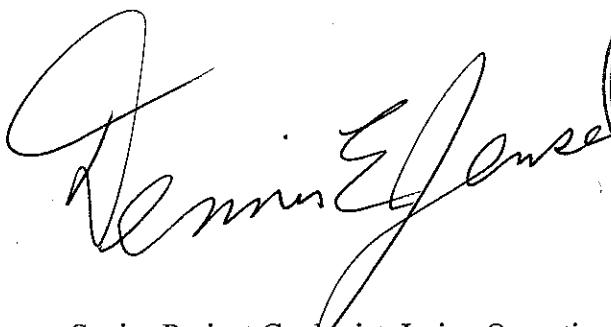
**QUARTERLY MONITORING REPORT
OCTOBER THROUGH DECEMBER 2008**

76 STATION 4186
1771 First Street
Livermore, California

Prepared For:

Mr. Terry Grayson
CONOCOPHILLIPS COMPANY
76 Broadway
Sacramento, California 95818

By:



Senior Project Geologist, Irvine Operations

Date: 1/13/09

LIST OF ATTACHMENTS

Summary Sheet	Summary of Gauging and Sampling Activities
Tables	Table Key Contents of Tables Table 1: Current Fluid Levels and Selected Analytical Results Table 1a: Additional Current Analytical Results Table 1b: Additional Current Analytical Results Table 1c: Additional Current Analytical Results Table 1d: Additional Current Analytical Results Table 1e: Additional Current Analytical Results Table 2: Historic Fluid Levels and Selected Analytical Results Table 2a: Additional Historic Analytical Results Table 2b: Additional Historic Analytical Results Table 2c: Additional Historic Analytical Results Table 2d: Additional Historic Analytical Results Table 2e: Additional Historic Analytical Results
Figures	Figure 1: Vicinity Map Figure 2: Groundwater Elevation Map Figure 3: Dissolved-Phase TPH-G (GC/MS) Concentration Map Figure 4: Dissolved-Phase Benzene Concentration Map Figure 5: Dissolved-Phase MTBE Concentration Map
Graphs	Groundwater Elevations vs. Time Benzene Concentrations vs. Time
Field Activities	General Field Procedures Field Monitoring Data Sheet – 12/03/08 Groundwater Sampling Field Notes – 12/03/08 Statement of Non-Completion – 12/03/08
Statements	Purge Water Disposal Limitations

Summary of Gauging and Sampling Activities

October 2008 through December 2008

76 Station 4186

1771 First Street

Livermore, CA

Project Coordinator: **Terry Grayson**
Telephone: **916-558-7666**

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

Date(s) of Gauging/Sampling Event: **12/3/2008**

Sample Points

Groundwater wells: **13** onsite, **2** offsite Points gauged: **15** Points sampled: **4**

Purging method: **Submersible pump**

Purge water disposal: **Veolia/Rodeo Unit 100**

Other Sample Points: **0** Type: --

Liquid Phase Hydrocarbons (LPH)

Sample Points with LPH: **0** Maximum thickness (feet): --

LPH removal frequency: -- Method: --

Treatment or disposal of water/LPH: --

Hydrogeologic Parameters

Depth to groundwater (below TOC): Minimum: **49.58 feet** Maximum: **50.74 feet**

Average groundwater elevation (relative to available local datum): **430.03 feet**

Average change in groundwater elevation since previous event: --

Interpreted groundwater gradient and flow direction:

Current event: **0.015 ft/ft, west**

Previous event: **n/a (9/3/2008)**

Selected Laboratory Results

Sample Points with detected **Benzene**: **0** Sample Points above MCL (1.0 µg/l): --

Maximum reported benzene concentration: --

Sample Points with **TPH-G by GC/MS** **0**

Sample Points with **MTBE 8260B** **2** Maximum: **1.4 µg/l (U-14)**

Notes:

U-1=Dry, U-10=Dry, U-11=Dry, U-2=Dry, U-3=Dry, U-4=Dry, U-5=Dry, U-6=Dry, U-7=Dry, U-8=Dry, U-9=Dry

TABLES

TABLE KEY

STANDARD ABBREVIATIONS

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

ANALYTES

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

NOTES

1. Elevations are in feet above mean sea level. Depths are in feet below surveyed top-of-casing.
2. Groundwater elevations for wells with LPH are calculated as: Surface Elevation - Measured Depth to Water + (D_p x LPH Thickness), where D_p 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)
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)
Table 1b	Well/ Date	Barium (dissolved)	Beryllium (total)	Beryllium (dissolved)	Cadmium (total)	Cadmium (dissolved)	Calcium	Chromium VI	Chromium (total)	Chromium (dissolved)	Cobalt (total)	Cobalt (dissolved)	Copper (dissolved)
Table 1c	Well/ Date	Copper (total)	Lead (dissolved)	Lead (total)	Magnesium (dissolved)	Manganese (dissolved)	Mercury (total)	Mercury (dissolved)	Molyb- denum (total)	Molyb- denum (dissolved)	Nickel (total)	Nickel (dissolved)	Potassium
Table 1d	Well/ Date	Selenium (total)	Selenium (dissolved)	Silver (total)	Silver (dissolved)	Sodium	Thallium (total)	Thallium (dissolved)	Vanadium (total)	Vanadium (dissolved)	Zinc (dissolved)	Zinc (total)	Chloride
Table 1e	Well/ Date	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)
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)
Table 2b	Well/ Date	Barium (dissolved)	Beryllium (total)	Beryllium (dissolved)	Cadmium (total)	Cadmium (dissolved)	Calcium	Chromium VI	Chromium (total)	Chromium (dissolved)	Cobalt (total)	Cobalt (dissolved)	Copper (dissolved)
Table 2c	Well/ Date	Copper (total)	Lead (dissolved)	Lead (total)	Magnesium (dissolved)	Manganese (dissolved)	Mercury (total)	Mercury (dissolved)	Molyb- denum (total)	Molyb- denum (dissolved)	Nickel (total)	Nickel (dissolved)	Potassium
Table 2d	Well/ Date	Selenium (total)	Selenium (dissolved)	Silver (total)	Silver (dissolved)	Sodium	Thallium (total)	Thallium (dissolved)	Vanadium (total)	Vanadium (dissolved)	Zinc (dissolved)	Zinc (total)	Chloride

Contents of Tables 1 and 2

Site: 76 Station 4186

Table 2e

Well/ Date	Fluoride	Nitrogen as Nitrate	Sulfate	TDS	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen	Pre-purge ORP	Post-purge ORP
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Table 1
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

December 3, 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)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
U-1														
	12/03/08	480.29	--	--	--	--	--	--	--	--	--	--	--	Dry
U-2														
	12/03/08	479.45	--	--	--	--	--	--	--	--	--	--	--	Dry
U-3														
	12/03/08	480.48	--	--	--	--	--	--	--	--	--	--	--	Dry
U-4														
	12/03/08	478.95	--	--	--	--	--	--	--	--	--	--	--	Dry
U-5														
	12/03/08	478.52	--	--	--	--	--	--	--	--	--	--	--	Dry
U-6														
	12/03/08	480.40	--	--	--	--	--	--	--	--	--	--	--	Dry
U-7														
	12/03/08	480.78	--	--	--	--	--	--	--	--	--	--	--	Dry
U-8														
	12/03/08	480.43	--	--	--	--	--	--	--	--	--	--	--	Dry
U-9														
	12/03/08	479.39	--	--	--	--	--	--	--	--	--	--	--	Dry
U-10														
	12/03/08	480.51	--	--	--	--	--	--	--	--	--	--	--	Dry
U-11														
	12/03/08	480.34	--	--	--	--	--	--	--	--	--	--	--	Dry
U-12														
	12/03/08	480.75	50.08	0.00	430.67	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50

Table 1
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

December 3, 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)	($\mu\text{g/l}$)								
U-13														
12/03/08	480.31	50.74	0.00	429.57	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.85	
U-14														
12/03/08	479.38	49.90	0.00	429.48	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.4	
U-15														
12/03/08	479.99	49.58	0.00	430.41	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	

Table 1 a
ADDITIONAL CURRENT ANALYTICAL RESULTS
76 Station 4186

Date Sampled	TBA ($\mu\text{g/l}$)	Ethanol (8260B) ($\mu\text{g/l}$)	Ethylene-dibromide (EDB) ($\mu\text{g/l}$)	1,2-DCA (EDC) ($\mu\text{g/l}$)	DIPE ($\mu\text{g/l}$)	ETBE ($\mu\text{g/l}$)	TAME ($\mu\text{g/l}$)	Antimony (total) ($\mu\text{g/l}$)	Antimony (dissolved) ($\mu\text{g/l}$)	Arsenic (total) ($\mu\text{g/l}$)	Arsenic (dissolved) ($\mu\text{g/l}$)	Barium ($\mu\text{g/l}$)
U-12												
12/03/08	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	330
U-13												
12/03/08	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	140
U-14												
12/03/08	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	340
U-15												
12/03/08	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	320

Table 1 b
ADDITIONAL CURRENT ANALYTICAL RESULTS
76 Station 4186

Date Sampled	Barium (dissolved) ($\mu\text{g/l}$)	Beryllium (total) ($\mu\text{g/l}$)	Beryllium (dissolved) ($\mu\text{g/l}$)	Cadmium (total) ($\mu\text{g/l}$)	Cadmium (dissolved) (mg/l)	Calcium (mg/l)	Chromium VI ($\mu\text{g/l}$)	Chromium (total) ($\mu\text{g/l}$)	Chromium (dissolved) ($\mu\text{g/l}$)	Cobalt (total) ($\mu\text{g/l}$)	Cobalt (dissolved) ($\mu\text{g/l}$)	Copper (dissolved) ($\mu\text{g/l}$)
U-12												
12/03/08	330	ND<10	ND<10	ND<10	ND<10	51	2.7	11	ND<10	ND<50	ND<50	ND<10
U-13												
12/03/08	110	ND<10	ND<10	ND<10	ND<10	24	85	93	86	ND<50	ND<50	ND<10
U-14												
12/03/08	320	ND<10	ND<10	ND<10	ND<10	47	3.0	ND<10	ND<10	ND<50	ND<50	ND<10
U-15												
12/03/08	300	ND<10	ND<10	ND<10	ND<10	47	3.7	ND<10	ND<10	ND<50	ND<50	ND<10

Table 1 c
ADDITIONAL CURRENT ANALYTICAL RESULTS
76 Station 4186

Date Sampled	Copper (total) ($\mu\text{g/l}$)	Lead (dissolved) (mg/l)	Lead (total) ($\mu\text{g/l}$)	Magnesium (dissolved) (mg/l)	Manganese (dissolved) ($\mu\text{g/l}$)	Mercury (total) ($\mu\text{g/l}$)	Mercury (dissolved) ($\mu\text{g/l}$)	Molyb-denum (total) ($\mu\text{g/l}$)	Molyb-denum (dissolved) ($\mu\text{g/l}$)	Nickel (total) ($\mu\text{g/l}$)	Nickel (dissolved) ($\mu\text{g/l}$)	Potassium (mg/l)
U-12												
12/03/08	12	ND<50	ND<50	73	ND<10	ND<0.20	ND<0.20	ND<50	ND<50	24	ND<10	2.6
U-13												
12/03/08	21	ND<50	ND<50	53	ND<10	ND<0.20	ND<0.20	ND<50	ND<50	ND<10	ND<10	8.3
U-14												
12/03/08	26	ND<50	ND<50	67	ND<10	ND<0.20	ND<0.20	ND<50	ND<50	15	ND<10	2.6
U-15												
12/03/08	12	ND<50	ND<50	69	ND<10	ND<0.20	ND<0.20	ND<50	ND<50	ND<10	ND<10	3.7

Table 1 d
ADDITIONAL CURRENT ANALYTICAL RESULTS
76 Station 4186

Date Sampled	Selenium (total) ($\mu\text{g/l}$)	Selenium (dissolved) ($\mu\text{g/l}$)	Silver (total) ($\mu\text{g/l}$)	Silver (dissolved) ($\mu\text{g/l}$)	Sodium (mg/l)	Thallium (total) ($\mu\text{g/l}$)	Thallium (dissolved) ($\mu\text{g/l}$)	Vanadium (total) ($\mu\text{g/l}$)	Vanadium (dissolved) ($\mu\text{g/l}$)	Zinc (dissolved) ($\mu\text{g/l}$)	Zinc (total) ($\mu\text{g/l}$)	Chloride (mg/l)
U-12												
12/03/08	ND<100	ND<100	ND<10	ND<10	49	ND<100	ND<100	ND<10	ND<10	26	ND<50	85
U-13												
12/03/08	ND<100	ND<100	ND<10	ND<10	59	ND<100	ND<100	ND<10	ND<10	ND<10	ND<50	95
U-14												
12/03/08	ND<100	ND<100	ND<10	ND<10	48	ND<100	ND<100	ND<10	ND<10	43	69	85
U-15												
12/03/08	ND<100	ND<100	ND<10	ND<10	48	ND<100	ND<100	ND<10	ND<10	36	54	87

Table 1 e
ADDITIONAL CURRENT ANALYTICAL RESULTS
76 Station 4186

Date Sampled	Nitrogen			TDS (mg/l)	Post-purge	Pre-purge	Post-purge ORP (mV)
	Fluoride (mg/l)	Nitrate (mg/l)	Sulfate (mg/l)		Dissolved Oxygen (mg/l)	Dissolved Oxygen (mg/l)	
U-12 12/03/08	0.14	28	59	630	2.85	2.71	66
U-13 12/03/08	0.16	26	65	610	1.70	2.21	62
U-14 12/03/08	0.14	25	55	660	2.63	2.96	91
U-15 12/03/08	0.13	21	52	670	2.21	2.55	108
							118

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

Date Sampled	TOC Elevation	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) ($\mu\text{g/l}$)	TPH-G (GC/MS) ($\mu\text{g/l}$)	Benzene ($\mu\text{g/l}$)	Toluene ($\mu\text{g/l}$)	Ethyl-benzene ($\mu\text{g/l}$)	Total Xylenes ($\mu\text{g/l}$)	MTBE (8021B) ($\mu\text{g/l}$)	MTBE (8260B) ($\mu\text{g/l}$)	Comments	
U-1															
				(Screen Interval in feet: 14.0-34.0)											
07/13/98	478.27	23.28	0.00	454.99	--	ND	--	ND	ND	ND	ND	ND	--		
10/07/98	478.27	26.43	0.00	451.84	-3.15	ND	--	ND	ND	ND	ND	ND	--		
01/15/99	478.27	30.42	0.00	447.85	-3.99	ND	--	ND	ND	ND	1.1	7.3	--		
04/14/99	478.27	24.21	0.00	454.06	6.21	ND	--	ND	ND	ND	ND	160	--		
07/19/99	478.27	27.10	0.00	451.17	-2.89	ND	--	ND	ND	ND	ND	92	--		
10/12/99	478.27	29.40	0.00	448.87	-2.30	ND	--	ND	ND	ND	ND	37	--		
01/24/00	478.27	27.90	0.00	450.37	1.50	ND	--	ND	ND	ND	ND	28	--		
04/10/00	478.27	26.16	0.00	452.11	1.74	ND	--	ND	0.930	ND	ND	ND	--		
07/17/00	478.27	28.04	0.00	450.23	-1.88	ND	--	ND	ND	ND	ND	160	--		
10/02/00	478.27	28.41	0.00	449.86	-0.37	ND	--	ND	ND	ND	ND	120	--		
01/08/01	478.27	28.68	0.00	449.59	-0.27	ND	--	ND	ND	ND	ND	103	--		
04/03/01	478.27	25.74	0.00	452.53	2.94	ND	--	ND	ND	ND	ND	55.1	--		
07/02/01	478.27	30.67	0.00	447.60	-4.93	ND	--	ND	ND	ND	ND	ND	--		
10/08/01	478.27	33.13	0.00	445.14	-2.46	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--		
01/03/02	478.27	27.67	0.00	450.60	5.46	160	--	ND<0.50	0.51	ND<0.50	0.69	31	--		
04/05/02	478.27	29.40	0.00	448.87	-1.73	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	60	--		
07/02/02	478.27	31.17	0.00	447.10	-1.77	--	1100	ND<0.50	1.7	0.73	130	--	35		
10/01/02	478.27	33.00	0.00	445.27	-1.83	--	120	ND<0.50	ND<0.50	ND<0.50	8.8	--	28		
12/30/02	478.27	22.03	0.00	456.24	10.97	--	ND<50	ND<0.50	ND<0.50	ND<0.50	1.2	--	90		
05/02/03	478.27	24.13	0.00	454.14	-2.10	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	50		
07/01/03	478.27	25.35	0.00	452.92	-1.22	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0		
10/03/03	478.27	27.24	0.00	451.03	-1.89	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0		

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

Date Sampled	TOC Elevation	Depth to Water (feet)	LPH Thickness	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) ($\mu\text{g/l}$)	TPH-G (GC/MS) ($\mu\text{g/l}$)	Benzene ($\mu\text{g/l}$)	Toluene ($\mu\text{g/l}$)	Ethyl-benzene ($\mu\text{g/l}$)	Total Xylenes ($\mu\text{g/l}$)	MTBE (8021B) ($\mu\text{g/l}$)	MTBE (8260B) ($\mu\text{g/l}$)	Comments
U-1 continued														
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	
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
09/03/08	478.27	--	--	--	--	--	--	--	--	--	--	--	--	Dry
12/03/08	480.29	--	--	--	--	--	--	--	--	--	--	--	--	Dry
U-2														
(Screen Interval in feet: 13.0-34.0)														
07/13/98	477.44	23.52	0.00	453.92	--	1200	--	130	12	62	180	1100	--	
10/07/98	477.44	25.31	0.00	452.13	-1.79	ND	--	ND	ND	ND	ND	160	--	

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

Date Sampled	TOC	Depth to Water (feet)	LPH Thickness	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) ($\mu\text{g/l}$)	TPH-G (GC/MS) ($\mu\text{g/l}$)	Benzene ($\mu\text{g/l}$)	Toluene ($\mu\text{g/l}$)	Ethylbenzene ($\mu\text{g/l}$)	Total Xylenes ($\mu\text{g/l}$)	MTBE (8021B) ($\mu\text{g/l}$)	MTBE (8260B) ($\mu\text{g/l}$)	Comments
U-2 continued														
01/15/99	477.44	30.22	0.00	447.22	-4.91	ND	--	ND	ND	ND	ND	280	--	
04/14/99	477.44	24.50	0.00	452.94	5.72	ND	--	ND	ND	ND	ND	460	--	
07/19/99	477.44	28.54	0.00	448.90	-4.04	ND	--	ND	ND	ND	ND	220	--	
10/12/99	477.44	30.48	0.00	446.96	-1.94	ND	--	ND	ND	ND	ND	160	--	
01/24/00	477.44	24.52	0.00	452.92	5.96	ND	--	ND	ND	ND	ND	150	--	
04/10/00	477.44	23.68	0.00	453.76	0.84	ND	--	ND	ND	ND	ND	177	--	
07/17/00	477.44	28.35	0.00	449.09	-4.67	ND	--	ND	ND	ND	ND	62.7	--	
10/02/00	477.44	28.72	0.00	448.72	-0.37	ND	--	ND	ND	ND	ND	52	--	
01/08/01	477.44	29.11	0.00	448.33	-0.39	ND	--	ND	ND	ND	ND	57.3	--	
04/03/01	477.44	25.95	0.00	451.49	3.16	ND	--	ND	ND	ND	ND	30.2	--	
07/02/01	477.44	29.01	0.00	448.43	-3.06	ND	--	ND	ND	ND	ND	16	--	
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	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
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76 Station 4186

Date Sampled	TOC Elevation	Depth to Water (feet)	LPH Thickness	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) ($\mu\text{g/l}$)	TPH-G (GC/MS) ($\mu\text{g/l}$)	Benzene ($\mu\text{g/l}$)	Toluene ($\mu\text{g/l}$)	Ethyl-benzene ($\mu\text{g/l}$)	Total Xylenes ($\mu\text{g/l}$)	MTBE (8021B) ($\mu\text{g/l}$)	MTBE (8260B) ($\mu\text{g/l}$)	Comments
U-2 continued														
12/08/04	477.44	29.89	0.00	447.55	-5.44	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
03/23/05	477.44	22.00	0.00	455.44	7.89	--	ND<50	ND<0.50	ND<0.50	ND<0.50	1.1	--	ND<0.50	
06/28/05	477.44	25.30	0.00	452.14	-3.30	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
09/23/05	477.44	28.25	0.00	449.19	-2.95	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/30/05	477.44	24.33	0.00	453.11	3.92	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
03/24/06	477.44	22.34	0.00	455.10	1.99	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
06/26/06	477.44	23.15	0.00	454.29	-0.81	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
09/26/06	477.44	28.52	0.00	448.92	-5.37	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
11/21/06	477.44	25.85	0.00	451.59	2.67	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
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	--	--	--	--	--	--	--	--	--	--	--	--	
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	--	--	--	--	--	--	--	--	--	--	--	--	
09/03/08	477.44	--	--	--	--	--	--	--	--	--	--	--	--	
12/03/08	479.45	--	--	--	--	--	--	--	--	--	--	--	--	
U-3														
(Screen Interval in feet: 14.0-34.0)														
07/13/98	478.46	23.82	0.00	454.64	--	70000	--	3100	5500	2700	16000	7500	--	
10/07/98	478.46	25.64	0.00	452.82	-1.82	54000	--	5000	1100	3100	14000	6100	--	
01/15/99	478.46	30.92	0.00	447.54	-5.28	41000	--	3100	ND	1800	3800	15000	--	
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	

Table 2
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July 1998 Through December 2008
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Date Sampled	TOC Elevation	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) ($\mu\text{g/l}$)	TPH-G (GC/MS) ($\mu\text{g/l}$)	Benzene ($\mu\text{g/l}$)	Toluene ($\mu\text{g/l}$)	Ethyl-benzene ($\mu\text{g/l}$)	Total Xylenes ($\mu\text{g/l}$)	MTBE (8021B) ($\mu\text{g/l}$)	MTBE (8260B) ($\mu\text{g/l}$)	Comments
U-3 continued														
10/12/99	478.46	30.39	0.00	448.07	-1.93	35000	--	4200	ND	2300	1800	22000	8300	
01/24/00	478.46	23.43	0.00	455.03	6.96	13000	--	260	ND	770	3200	53000	42000	
04/10/00	478.46	23.31	0.00	455.15	0.12	35200	--	1070	241	2820	8850	35600	40900	
07/17/00	478.46	27.53	0.00	450.93	-4.22	29000	--	3570	525	3180	5660	22500	21000	
10/02/00	478.46	28.19	0.00	450.27	-0.66	11000	--	2100	31	2000	780	25000	28000	
01/08/01	478.46	29.85	0.00	448.61	-1.66	33600	--	3060	427	3040	4190	24700	30900	
04/03/01	478.46	24.98	0.00	453.48	4.87	5390	--	660	10.8	304	356	15200	19300	
07/02/01	478.46	31.35	0.00	447.11	-6.37	13000	--	1200	58	1300	930	25000	26000	
10/08/01	478.46	32.69	0.00	445.77	-1.34	6100	--	500	ND<10	570	130	23000	22000	
01/03/02	478.46	23.73	0.00	454.73	8.96	9900	--	700	130	24	1000	14000	12000	
04/05/02	477.44	28.27	0.00	449.17	-5.56	9800	--	1100	180	220	1400	16000	30000	
07/02/02	478.46	29.71	0.00	448.75	-0.42	--	ND<25000	ND<250	ND<250	ND<250	ND<500	12000	12000	
10/01/02	478.46	31.18	0.00	447.28	-1.47	--	ND<25000	ND<250	ND<250	ND<250	ND<500	12000	12000	
12/30/02	478.46	21.62	0.00	456.84	9.56	--	23000	330	170	870	4900	18000	18000	
05/02/03	478.46	23.11	0.00	455.35	-1.49	--	19000	280	ND<50	880	1500	15000	15000	
07/01/03	478.46	24.89	0.00	453.57	-1.78	--	19000	120	ND<100	180	880	22000	22000	
10/03/03	478.46	26.59	0.00	451.87	-1.70	--	20000	170	ND<50	250	730	--	16000	
01/08/04	478.46	21.92	0.00	456.54	4.67	--	17000	250	ND<100	770	1500	--	9700	
04/15/04	478.46	23.59	0.00	454.87	-1.67	--	4600	ND<25	ND<25	36	100	--	3700	
07/15/04	478.46	24.80	0.00	453.66	-1.21	--	2700	ND<25	ND<25	ND<25	ND<50	--	3400	
12/08/04	478.46	29.13	0.00	449.33	-4.33	--	12000	ND<50	ND<50	250	140	--	13000	
03/23/05	478.46	21.64	0.00	456.82	7.49	--	21000	94	ND<50	630	1200	--	6200	
06/28/05	478.46	24.57	0.00	453.89	-2.93	--	6600	24	0.64	150	70	--	4700	

Table 2
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Date Sampled	TOC Elevation	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) ($\mu\text{g/l}$)	TPH-G (GC/MS) ($\mu\text{g/l}$)	Benzene ($\mu\text{g/l}$)	Toluene ($\mu\text{g/l}$)	Ethyl-benzene ($\mu\text{g/l}$)	Total Xylenes ($\mu\text{g/l}$)	MTBE (8021B) ($\mu\text{g/l}$)	MTBE (8260B) ($\mu\text{g/l}$)	Comments
U-3 continued														
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	
12/20/07	478.46	--	--	--	--	--	--	--	--	--	--	--	--	
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	
09/03/08	478.46	--	--	--	--	--	--	--	--	--	--	--	Dry	
12/03/08	480.48	--	--	--	--	--	--	--	--	--	--	--	Dry	
U-4														
(Screen Interval in feet: 35.0-45.0)														
04/03/01	476.93	31.63	0.00	445.30	--	ND	--	ND	ND	ND	ND	37.8	38.2	
07/02/01	476.93	37.96	0.00	438.97	-6.33	ND	--	ND	ND	ND	ND	ND	5.3	
10/08/01	476.93	44.24	0.00	432.69	-6.28	--	--	--	--	--	--	--	--	
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	

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Date Sampled	TOC Elevation	Depth to Water (feet)	LPH Thickness	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
U-4 continued														
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	
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	
09/03/08	476.93	--	--	--	--	--	--	--	--	--	--	--	--	Dry
12/03/08	478.95	--	--	--	--	--	--	--	--	--	--	--	--	Dry

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U-5														
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	--	--	--	--	--	--	--	--	--	--	--	--	Truck parked over well
12/30/02	476.51	--	--	--	--	--	--	--	--	--	--	--	--	Car parked over well
05/02/03	476.51	31.55	0.00	444.96	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	18	
07/01/03	476.51	33.83	0.00	442.68	-2.28	--	73	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	46	
10/03/03	476.51	37.72	0.00	438.79	-3.89	--	58	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	44	
01/08/04	476.51	29.21	0.00	447.30	8.51	--	ND<50	ND<0.50	ND<0.50	1.1	2.7	--	17	
04/15/04	476.51	30.05	0.00	446.46	-0.84	--	57	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	37	
07/15/04	476.51	35.15	0.00	441.36	-5.10	--	60	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	27	
12/08/04	476.51	35.33	0.00	441.18	-0.18	--	62	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	39	
03/23/05	476.51	25.45	0.00	451.06	9.88	--	ND<50	ND<0.50	ND<0.50	0.51	ND<1.0	--	4.5	
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	

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

Date Sampled	TOC Elevation	Depth to Water (feet)	LPH Thickness	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) ($\mu\text{g/l}$)	TPH-G (GC/MS) ($\mu\text{g/l}$)	Benzene ($\mu\text{g/l}$)	Toluene ($\mu\text{g/l}$)	Ethyl-benzene ($\mu\text{g/l}$)	Total Xylenes ($\mu\text{g/l}$)	MTBE (8021B) ($\mu\text{g/l}$)	MTBE (8260B) ($\mu\text{g/l}$)	Comments
U-5 continued														
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	
09/03/08	476.51	--	--	--	--	--	--	--	--	--	--	--	--	Dry
12/03/08	478.52	--	--	--	--	--	--	--	--	--	--	--	--	Dry
U-6														
				(Screen Interval in feet: --)										
01/03/02	478.38	33.99	0.00	444.39	--	5000	--	36	ND<25	260	450	ND<250	ND<10	
04/05/02	478.38	36.18	0.00	442.20	-2.19	1300	--	16	ND<5.0	54	ND<5.0	ND<25	--	
07/02/02	478.38	36.33	0.00	442.05	-0.15	--	1100	1.4	ND<0.50	16	ND<1.0	--	0.94	
10/01/02	478.38	37.70	0.00	440.68	-1.37	--	2000	5.4	ND<0.50	62	ND<1.0	--	2.6	
12/30/02	478.38	31.63	0.00	446.75	6.07	--	130	ND<0.50	ND<0.50	2.3	ND<1.0	--	ND<2.0	
05/02/03	478.38	31.49	0.00	446.89	0.14	--	150	ND<0.50	ND<0.50	1.8	1.7	--	82	
07/01/03	478.38	32.88	0.00	445.50	-1.39	--	190	1.8	ND<0.50	9.4	8.7	--	36	
10/03/03	478.38	36.54	0.00	441.84	-3.66	--	ND<10000	140	ND<100	940	560	--	ND<400	
01/08/04	478.38	30.45	0.00	447.93	6.09	--	3500	29	32	90	89	--	27	
04/15/04	478.38	29.48	0.00	448.90	0.97	--	2400	19	ND<2.5	91	53	--	16	
07/15/04	478.38	34.30	0.00	444.08	-4.82	--	8500	150	5.7	970	560	--	24	
12/08/04	478.38	34.80	0.00	443.58	-0.50	--	2700	16	ND<2.5	28	ND<5.0	--	10	
03/23/05	478.38	25.08	0.00	453.30	9.72	--	960	2.7	ND<0.50	9.6	4.8	--	2.5	
06/28/05	478.38	28.75	0.00	449.63	-3.67	--	12000	120	4.9	930	780	--	21	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
July 1998 Through December 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) ($\mu\text{g/l}$)	TPH-G (GC/MS) ($\mu\text{g/l}$)	Benzene ($\mu\text{g/l}$)	Toluene ($\mu\text{g/l}$)	Ethylbenzene ($\mu\text{g/l}$)	Total Xylenes ($\mu\text{g/l}$)	MTBE (8021B) ($\mu\text{g/l}$)	MTBE (8260B) ($\mu\text{g/l}$)	Comments
U-6 continued														
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	--	--	--	--	--	--	--	--	--	--	--	--	
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	
09/03/08	478.38	--	--	--	--	--	--	--	--	--	--	--	Dry	
12/03/08	480.40	--	--	--	--	--	--	--	--	--	--	--	Dry	
U-7														
(Screen Interval in feet: --)														
01/03/02	478.74	32.43	0.00	446.31	--	3100	--	93	ND<10	35	73	140	130	
04/05/02	478.74	34.06	0.00	444.68	-1.63	630	--	22	0.53	2.6	ND<0.50	45	--	
07/02/02	478.74	35.28	0.00	443.46	-1.22	--	1100	21	ND<0.50	6.9	ND<1.0	--	60	
10/01/02	478.74	37.70	0.00	441.04	-2.42	--	1700	11	ND<0.50	3.1	ND<1.0	--	25	
12/30/02	478.74	31.93	0.00	446.81	5.77	--	4600	41	5.3	32	13	--	34	
05/02/03	478.74	31.81	0.00	446.93	0.12	--	3000	17	2.7	14	5.1	--	42	
07/01/03	478.74	33.47	0.00	445.27	-1.66	--	2300	11	0.53	8.0	1.5	--	35	
10/03/03	478.74	35.84	0.00	442.90	-2.37	--	6500	30	ND<5.0	41	ND<10	--	53	

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

Date Sampled	TOC Elevation	Depth to Water (feet)	LPH Thickness	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) ($\mu\text{g/l}$)	TPH-G (GC/MS) ($\mu\text{g/l}$)	Benzene ($\mu\text{g/l}$)	Toluene ($\mu\text{g/l}$)	Ethylbenzene ($\mu\text{g/l}$)	Total Xylenes ($\mu\text{g/l}$)	MTBE (8021B) ($\mu\text{g/l}$)	MTBE (8260B) ($\mu\text{g/l}$)	Comments
U-7 continued														
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	--	--	--	--	--	--	--	--	
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	
09/03/08	478.74	--	--	--	--	--	--	--	--	--	--	--	Dry	
12/03/08	480.78	--	--	--	--	--	--	--	--	--	--	--	Dry	
U-8														
(Screen Interval in feet: 35-45)														
12/03/08	480.43	--	--	--	--	--	--	--	--	--	--	--	Dry	
U-9														
(Screen Interval in feet: 35-45)														

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

Date Sampled	TOC	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) ($\mu\text{g/l}$)	TPH-G (GC/MS) ($\mu\text{g/l}$)	Benzene ($\mu\text{g/l}$)	Toluene ($\mu\text{g/l}$)	Ethylbenzene ($\mu\text{g/l}$)	Total Xylenes ($\mu\text{g/l}$)	MTBE (8021B) ($\mu\text{g/l}$)	MTBE (8260B) ($\mu\text{g/l}$)	Comments
U-9 continued														
12/03/08	479.39	--	--	--	--	--	--	--	--	--	--	--	--	Dry
U-10 (Screen Interval in feet: 37-47)														
12/03/08	480.51	--	--	--	--	--	--	--	--	--	--	--	--	Dry
U-11 (Screen Interval in feet: 35-45)														
12/03/08	480.34	--	--	--	--	--	--	--	--	--	--	--	--	Dry
U-12 (Screen Interval in feet: 63-73)														
12/03/08	480.75	50.08	0.00	430.67	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
U-13 (Screen Interval in feet: --)														
12/03/08	480.31	50.74	0.00	429.57	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.85	
U-14 (Screen Interval in feet: 65-75)														
12/03/08	479.38	49.90	0.00	429.48	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.4	
U-15 (Screen Interval in feet: 61-71)														
12/03/08	479.99	49.58	0.00	430.41	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Antimony (total) (µg/l)	Antimony (dissolved) (µg/l)	Arsenic (total) (µg/l)	Arsenic (dissolved) (µg/l)	Barium (µg/l)
U-1												
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	--	--	--	--	--
U-2												
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	--	--	--	--	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Antimony (total) (µg/l)	Antimony (dissolved) (µg/l)	Arsenic (total) (µg/l)	Arsenic (dissolved) (µg/l)	Barium (total) (µg/l)
U-2 continued												
12/08/04	--	ND<50	--	--	--	--	--	--	--	--	--	--
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
U-3												
10/02/00	63000	--	--	--	--	--	--	--	--	--	--	--
01/08/01	49300	ND	ND	ND	ND	ND	ND	--	--	--	--	--
04/03/01	22200	ND	ND	ND	ND	ND	ND	--	--	--	--	--
07/02/01	27000	ND	ND	ND	ND	ND	ND	--	--	--	--	--
10/08/01	33000	ND<140000000	ND<290	ND<290	ND<290	ND<290	ND<290	--	--	--	--	--
01/03/02	17000	ND<50000000	ND<100	ND<100	ND<100	ND<100	ND<100	--	--	--	--	--
04/05/02	66000	ND<25000000	ND<100	ND<100	ND<100	ND<100	ND<100	--	--	--	--	--
07/02/02	47000	ND<13000000	ND<250	ND<250	ND<500	ND<250	ND<250	--	--	--	--	--
10/01/02	ND<50000	ND<250000000	ND<1000	ND<1000	ND<1000	ND<1000	ND<1000	--	--	--	--	--
12/30/02	23000	ND<100000000	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	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	TBA ($\mu\text{g/l}$)	Ethanol (8260B) ($\mu\text{g/l}$)	Ethylene-dibromide (EDB) ($\mu\text{g/l}$)	1,2-DCA (EDC) ($\mu\text{g/l}$)	DIPE ($\mu\text{g/l}$)	ETBE ($\mu\text{g/l}$)	TAME ($\mu\text{g/l}$)	Antimony (total) ($\mu\text{g/l}$)	Antimony (dissolved) ($\mu\text{g/l}$)	Arsenic (total) ($\mu\text{g/l}$)	Arsenic (dissolved) ($\mu\text{g/l}$)	Barium ($\mu\text{g/l}$)
U-3 continued												
07/01/03	32000	ND<100000000	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	--	--	--	--	--
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
06/12/08	21000	ND<500	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<100	ND<100	210	--	2800
U-4												
04/03/01	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--
07/02/01	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--
01/03/02	ND<20	ND<500000	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	--	--
07/01/03	--	ND<500000	--	--	--	--	--	--	--	--	--	--
10/03/03	--	ND<500	--	--	--	--	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	TBA ($\mu\text{g/l}$)	Ethanol (8260B) ($\mu\text{g/l}$)	Ethylene-dibromide (EDB) ($\mu\text{g/l}$)	1,2-DCA (EDC) ($\mu\text{g/l}$)	DIPE ($\mu\text{g/l}$)	ETBE ($\mu\text{g/l}$)	TAME ($\mu\text{g/l}$)	Antimony (total) ($\mu\text{g/l}$)	Antimony (dissolved) ($\mu\text{g/l}$)	Arsenic (total) ($\mu\text{g/l}$)	Arsenic (dissolved) ($\mu\text{g/l}$)	Barium (total) ($\mu\text{g/l}$)
U-4 continued												
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	ND<100	ND<100	ND<50	ND<50	2000
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
U-5												
04/03/01	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--
07/02/01	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--
10/08/01	ND<100	ND<1000000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	--
01/03/02	ND<20	ND<500000	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	--	--
07/01/03	--	ND<500	--	--	--	--	--	--	--	--	--	--
10/03/03	--	ND<500	--	--	--	--	--	--	--	--	--	--
01/08/04	--	ND<500	--	--	--	--	--	--	--	--	--	--
04/15/04	--	ND<50	--	--	--	--	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Antimony (total) (µg/l)	Antimony (dissolved) (µg/l)	Arsenic (total) (µg/l)	Arsenic (dissolved) (µg/l)	Barium (µg/l)
U-5 continued												
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<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
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
U-6												
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	--	--	--	--	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	TBA ($\mu\text{g/l}$)	Ethanol (8260B) ($\mu\text{g/l}$)	Ethylene-dibromide (EDB) ($\mu\text{g/l}$)	1,2-DCA (EDC) ($\mu\text{g/l}$)	DIPE ($\mu\text{g/l}$)	ETBE ($\mu\text{g/l}$)	TAME ($\mu\text{g/l}$)	Antimony (total) ($\mu\text{g/l}$)	Antimony (dissolved) ($\mu\text{g/l}$)	Arsenic (total) ($\mu\text{g/l}$)	Arsenic (dissolved) ($\mu\text{g/l}$)	Barium (total) ($\mu\text{g/l}$)
U-6 continued												
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	--	--	--	--	--
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
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
U-7												
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	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	TBA ($\mu\text{g/l}$)	Ethanol (8260B) ($\mu\text{g/l}$)	Ethylene-dibromide (EDB) ($\mu\text{g/l}$)	1,2-DCA (EDC) ($\mu\text{g/l}$)	DIPE ($\mu\text{g/l}$)	ETBE ($\mu\text{g/l}$)	TAME ($\mu\text{g/l}$)	Antimony (total) ($\mu\text{g/l}$)	Antimony (dissolved) ($\mu\text{g/l}$)	Arsenic (total) ($\mu\text{g/l}$)	Arsenic (dissolved) ($\mu\text{g/l}$)	Barium ($\mu\text{g/l}$)
U-7 continued												
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
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
U-12												
12/03/08	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	330
U-13												
12/03/08	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	140
U-14												
12/03/08	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	340
U-15												
12/03/08	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	320

Table 2 b
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	Barium (dissolved) (µg/l)	Beryllium (total) (µg/l)	Beryllium (dissolved) (µg/l)	Cadmium (total) (µg/l)	Cadmium (dissolved) (mg/l)	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)
U-1 03/17/08	--	--	--	--	--	--	ND<2.0	--	--	--	--	--
U-2 03/17/08	--	ND<10	--	ND<10	--	--	ND<2.0	540	--	150	--	--
U-3 03/17/08 06/12/08	410 --	ND<10 ND<10	ND<10 --	ND<10 ND<10	ND<0.01 --	59 --	ND<2.0 --	450 980	ND<10 --	140 350	ND<50 --	ND<10 --
U-4 03/17/08 06/12/08	470 52	ND<10 ND<10	ND<10 ND<10	ND<10 ND<10	ND<0.01 ND<10	68 2.4	ND<2.0 ND<2.0	410 610	ND<10 ND<10	140 180	ND<50 ND<50	ND<10 ND<10
U-5 03/17/08 06/12/08	390 370	ND<10 ND<10	ND<10 ND<10	ND<10 ND<10	ND<0.01 ND<10	67 66	ND<2.0 ND<2.0	110 86	-- ND<10	ND<50 ND<50	ND<50 ND<50	ND<10 ND<10
U-6 03/17/08 06/12/08	330 600	ND<10 ND<10	ND<10 ND<10	ND<10 ND<10	ND<0.01 ND<10	73 69	ND<2.0 ND<2.0	34 ND<10	ND<10 ND<10	ND<50 ND<50	ND<50 ND<50	ND<10 ND<10
U-7 03/17/08 06/12/08	510 490	ND<10 ND<10	ND<10 ND<10	ND<10 ND<10	ND<0.01 ND<10	68 60	ND<2.0 ND<2.0	28 10	ND<10 ND<10	ND<50 ND<50	ND<50 ND<50	ND<10 ND<10
U-12 12/03/08	330	ND<10	ND<10	ND<10	ND<10	51	2.7	11	ND<10	ND<50	ND<50	ND<10
U-13 12/03/08	110	ND<10	ND<10	ND<10	ND<10	24	85	93	86	ND<50	ND<50	ND<10
U-14												

Table 2 b
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	Barium (dissolved) ($\mu\text{g/l}$)	Beryllium (total) ($\mu\text{g/l}$)	Beryllium (dissolved) ($\mu\text{g/l}$)	Cadmium (total) ($\mu\text{g/l}$)	Cadmium (dissolved) (mg/l)	Calcium (mg/l)	Chromium VI ($\mu\text{g/l}$)	Chromium (total) ($\mu\text{g/l}$)	Chromium (dissolved) ($\mu\text{g/l}$)	Cobalt (total) ($\mu\text{g/l}$)	Cobalt (dissolved) ($\mu\text{g/l}$)	Copper (dissolved) ($\mu\text{g/l}$)
U-14 continued												
12/03/08	320	ND<10	ND<10	ND<10	ND<10	47	3.0	ND<10	ND<10	ND<50	ND<50	ND<10
U-15												
12/03/08	300	ND<10	ND<10	ND<10	ND<10	47	3.7	ND<10	ND<10	ND<50	ND<50	ND<10

Table 2 c
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	Copper (total) ($\mu\text{g/l}$)	Lead (dissolved) (mg/l)	Lead (total) ($\mu\text{g/l}$)	Magnesium (dissolved) (mg/l)	Manganese (dissolved) ($\mu\text{g/l}$)	Mercury (total) ($\mu\text{g/l}$)	Mercury (dissolved) ($\mu\text{g/l}$)	Molyb-denum (total) ($\mu\text{g/l}$)	Molyb-denum (dissolved) ($\mu\text{g/l}$)	Nickel (total) ($\mu\text{g/l}$)	Nickel (dissolved) ($\mu\text{g/l}$)	Potassium (mg/l)
U-2												
03/17/08	330	--	71	--	--	1.7	--	ND<50	--	1500	--	--
U-3												
03/17/08	240	ND<50	65	94	2600	0.84	ND<0.20	ND<50	ND<50	1200	ND<10	1.6
06/12/08	590	--	160	--	--	2.4	--	81	--	2800	--	--
U-4												
03/17/08	250	ND<50	ND<50	88	2000	ND<0.20	ND<0.20	ND<50	ND<50	1300	ND<10	2.3
06/12/08	360	ND<50	53	7.7	720	2.5	ND<0.20	ND<50	ND<50	2100	ND<10	ND<1.0
U-5												
03/17/08	72	ND<50	ND<50	89	76	0.55	ND<0.20	ND<50	ND<50	360	ND<10	2.4
06/12/08	53	ND<50	ND<50	73	36	0.26	ND<0.20	ND<50	ND<50	290	ND<10	1.9
U-6												
03/17/08	17	ND<50	ND<50	120	4300	ND<0.20	ND<0.20	ND<50	ND<50	91	ND<10	1.0
06/12/08	ND<10	ND<50	ND<50	110	3800	0.60	ND<0.20	ND<50	ND<50	47	ND<10	1.3
U-7												
03/17/08	16	ND<50	ND<50	110	2300	ND<0.20	ND<0.20	ND<50	ND<50	79	ND<10	2.4
06/12/08	ND<10	ND<50	ND<50	92	2400	ND<0.20	ND<0.20	ND<50	ND<50	38	ND<10	2.4
U-12												
12/03/08	12	ND<50	ND<50	73	ND<10	ND<0.20	ND<0.20	ND<50	ND<50	24	ND<10	2.6
U-13												
12/03/08	21	ND<50	ND<50	53	ND<10	ND<0.20	ND<0.20	ND<50	ND<50	ND<10	ND<10	8.3
U-14												
12/03/08	26	ND<50	ND<50	67	ND<10	ND<0.20	ND<0.20	ND<50	ND<50	15	ND<10	2.6
U-15												

Table 2 c
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	Copper (total) ($\mu\text{g/l}$)	Lead (dissolved) (mg/l)	Lead (total) ($\mu\text{g/l}$)	Magnesium (dissolved) (mg/l)	Manganese (dissolved) ($\mu\text{g/l}$)	Mercury (total) ($\mu\text{g/l}$)	Mercury (dissolved) ($\mu\text{g/l}$)	Molyb- denum (total) ($\mu\text{g/l}$)	Molyb- denum (dissolved) ($\mu\text{g/l}$)	Nickel (total) ($\mu\text{g/l}$)	Nickel (dissolved) ($\mu\text{g/l}$)	Potassium (mg/l)
U-15 continued												
12/03/08	12	ND<50	ND<50	69	ND<10	ND<0.20	ND<0.20	ND<50	ND<50	ND<10	ND<10	3.7

Table 2 d
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	Selenium (total) ($\mu\text{g/l}$)	Selenium (dissolved) ($\mu\text{g/l}$)	Silver (total) ($\mu\text{g/l}$)	Silver (dissolved) ($\mu\text{g/l}$)	Sodium (mg/l)	Thallium (total) ($\mu\text{g/l}$)	Thallium (dissolved) ($\mu\text{g/l}$)	Vanadium (total) ($\mu\text{g/l}$)	Vanadium (dissolved) ($\mu\text{g/l}$)	Zinc (dissolved) ($\mu\text{g/l}$)	Zinc (total) ($\mu\text{g/l}$)	Chloride (mg/l)
U-2												
03/17/08	ND<100	--	ND<10	--	--	ND<100	--	240	--	--	590	--
U-3												
03/17/08	ND<100	ND<100	ND<10	ND<10	41	ND<100	ND<100	190	ND<10	ND<10	360	14
06/12/08	ND<100	--	ND<10	--	--	ND<100	--	410	--	--	970	--
U-4												
03/17/08	ND<100	ND<100	ND<10	ND<10	35	ND<100	ND<100	190	ND<10	ND<10	340	37
06/12/08	ND<100	ND<100	ND<10	ND<10	9.0	ND<100	ND<100	260	ND<10	ND<10	420	38
U-5												
03/17/08	ND<100	ND<100	ND<10	ND<10	49	ND<100	ND<100	60	ND<100	ND<10	120	32
06/12/08	ND<100	ND<100	ND<10	ND<10	26	ND<100	ND<100	44	ND<10	ND<10	87	31
U-6												
03/17/08	ND<100	ND<100	ND<10	ND<10	90	ND<100	ND<100	15	ND<10	ND<10	79	160
06/12/08	ND<100	ND<100	ND<10	ND<10	76	ND<100	ND<100	ND<10	ND<10	11	ND<50	190
U-7												
03/17/08	ND<100	ND<100	ND<10	ND<10	68	ND<100	ND<100	12	ND<10	ND<10	51	91
06/12/08	ND<100	ND<100	ND<10	ND<10	59	ND<100	ND<100	ND<10	ND<10	11	ND<50	120
U-12												
12/03/08	ND<100	ND<100	ND<10	ND<10	49	ND<100	ND<100	ND<10	ND<10	26	ND<50	85
U-13												
12/03/08	ND<100	ND<100	ND<10	ND<10	59	ND<100	ND<100	ND<10	ND<10	ND<10	ND<50	95
U-14												
12/03/08	ND<100	ND<100	ND<10	ND<10	48	ND<100	ND<100	ND<10	ND<10	43	69	85
U-15												

Table 2 d
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	Selenium (total) ($\mu\text{g/l}$)	Selenium (dissolved) ($\mu\text{g/l}$)	Silver (total) ($\mu\text{g/l}$)	Silver (dissolved) ($\mu\text{g/l}$)	Sodium (mg/l)	Thallium (total) ($\mu\text{g/l}$)	Thallium (dissolved) ($\mu\text{g/l}$)	Vanadium (total) ($\mu\text{g/l}$)	Vanadium (dissolved) ($\mu\text{g/l}$)	Zinc (dissolved) ($\mu\text{g/l}$)	Zinc (total) ($\mu\text{g/l}$)	Chloride (mg/l)
U-15 continued												
12/03/08	ND<100	ND<100	ND<10	ND<10	48	ND<100	ND<100	ND<10	ND<10	36	54	87

Table 2 e
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	Nitrogen as			Post-purge	Pre-purge			
	Fluoride (mg/l)	Nitrate (mg/l)	Sulfate (mg/l)	TDS (mg/l)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)	Post-purge ORP (mV)
U-1								
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	--	--	--	--	4.02	3.88	036	016
06/26/06	--	--	--	--	7.05	5.50	008	007
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
U-2								
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

Table 2 e
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	Nitrogen as			Post-purge Dissolved Oxygen (mg/l)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)	Post-purge ORP (mV)
	Fluoride (mg/l)	Nitrate (mg/l)	Sulfate (mg/l)				
U-2 continued							
01/08/04	--	--	--	--	12.11	--	--
04/15/04	--	--	--	--	11.39	--	--
07/15/04	--	--	--	--	7.46	--	--
12/08/04	--	--	--	--	3.57	--	--
03/23/05	--	--	--	--	4.57	--	--
06/28/05	--	--	--	--	8.08	--	--
09/23/05	--	--	--	--	5.47	--	--
12/30/05	--	--	--	--	8.33	--	--
03/24/06	--	--	--	--	4.80	6.20	-004
06/26/06	--	--	--	--	6.20	4.51	040
09/26/06	--	--	--	--	3.70	3.49	-31
11/21/06	--	--	--	--	3.70	3.45	-29
03/26/07	--	--	--	--	10.05	10.31	90
06/27/07	--	--	--	--	3.87	4.21	-63
09/23/07	--	--	--	--	--	--	-133
03/17/08	--	--	--	600	3.31	3.13	154
06/12/08	--	--	--	--	--	8.32	153
						177	--
U-3							
10/01/02	--	--	--	--	0.50	--	--
12/30/02	--	--	--	--	0.20	--	--
05/02/03	--	--	--	--	0.50	--	--
07/01/03	--	--	--	--	0.50	--	--
10/03/03	--	--	--	--	3.80	--	--
01/08/04	--	--	--	--	12.82	--	--
04/15/04	--	--	--	--	3.11	--	--

Table 2 e
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	Nitrogen as			Post-purge Dissolved Oxygen (mg/l)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)	Post-purge ORP (mV)
	Fluoride (mg/l)	Nitrate (mg/l)	Sulfate (mg/l)				
U-3 continued							
07/15/04	--	--	--	--	1.90	--	--
12/08/04	--	--	--	--	1.30	--	--
03/23/05	--	--	--	--	0.52	--	--
06/28/05	--	--	--	--	1.47	--	--
09/23/05	--	--	--	--	1.40	--	--
12/30/05	--	--	--	--	1.45	--	--
03/24/06	--	--	--	--	1.53	0.79	003
06/26/06	--	--	--	--	2.19	3.56	015
09/26/06	--	--	--	--	1.06	1.10	-72
11/21/06	--	--	--	--	1.04	1.10	-83
03/26/07	--	--	--	--	7.08	6.99	78
06/27/07	--	--	--	--	4.89	4.79	-79
09/23/07	--	--	--	--	--	--	-114
03/17/08	0.073	ND<0.44	ND<1.0	530	2.88	1.96	-5
06/12/08	--	--	--	--	0.11	1.30	-17
U-4							
10/01/02	--	--	--	--	1.00	--	--
12/30/02	--	--	--	--	0.40	--	--
05/02/03	--	--	--	--	0.70	--	--
07/01/03	--	--	--	--	0.60	--	--
10/03/03	--	--	--	--	2.06	--	--
01/08/04	--	--	--	--	11.90	--	--
04/15/04	--	--	--	--	3.30	--	--
07/15/04	--	--	--	--	2.50	--	--
12/08/04	--	--	--	--	2.09	--	--

Table 2 e
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	Nitrogen as			Post-purge Dissolved Oxygen (mg/l)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)	Post-purge ORP (mV)
	Fluoride (mg/l)	Nitrate (mg/l)	Sulfate (mg/l)				
U-4 continued							
03/23/05	--	--	--	--	0.04	--	--
06/28/05	--	--	--	--	2.24	--	--
09/23/05	--	--	--	--	3.01	--	--
12/30/05	--	--	--	--	1.96	--	--
03/24/06	--	--	--	--	1.17	1.48	015
06/26/06	--	--	--	--	2.55	1.31	031
09/26/06	--	--	--	--	1.38	1.23	-54
11/21/06	--	--	--	--	1.38	1.13	-60
03/26/07	--	--	--	--	7.09	7.28	14
06/27/07	--	--	--	--	2.82	2.62	82
03/17/08	0.12	0.61	29	540	2.47	2.71	153
06/12/08	0.14	ND<0.44	30	610	1.26	4.00	185
U-5							
05/02/03	--	--	--	--	0.60	--	--
07/01/03	--	--	--	--	0.90	--	--
10/03/03	--	--	--	--	2.21	--	--
01/08/04	--	--	--	--	11.27	--	--
04/15/04	--	--	--	--	3.35	--	--
07/15/04	--	--	--	--	2.87	--	--
12/08/04	--	--	--	--	1.67	--	--
03/23/05	--	--	--	--	0.75	--	--
06/28/05	--	--	--	--	2.29	--	--
09/23/05	--	--	--	--	2.05	--	--
12/30/05	--	--	--	--	1.39	--	--
03/24/06	--	--	--	--	0.97	0.97	011
							013

Table 2 e
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	Nitrogen			Post-purge Dissolved Oxygen (mg/l)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)	Post-purge ORP (mV)
	Fluoride (mg/l)	Nitrate (mg/l)	Sulfate (mg/l)				
U-5 continued							
06/26/06	--	--	--	--	7.18	7.23	091
09/26/06	--	--	--	--	1.19	0.80	44
11/21/06	--	--	--	--	1.12	0.79	41
03/26/07	--	--	--	--	3.20	3.60	31
06/27/07	--	--	--	--	2.01	1.67	66
03/17/08	0.086	3.8	31	530	2.91	1.98	151
06/12/08	0.070	1.8	26	550	1.89	1.22	172
U-6							
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	--	--	--	--	0.79	1.25	011
06/26/06	--	--	--	--	1.23	5.48	015
09/26/06	--	--	--	--	6.97	7.05	-67
11/21/06	--	--	--	--	0.83	1.05	-65
							-69

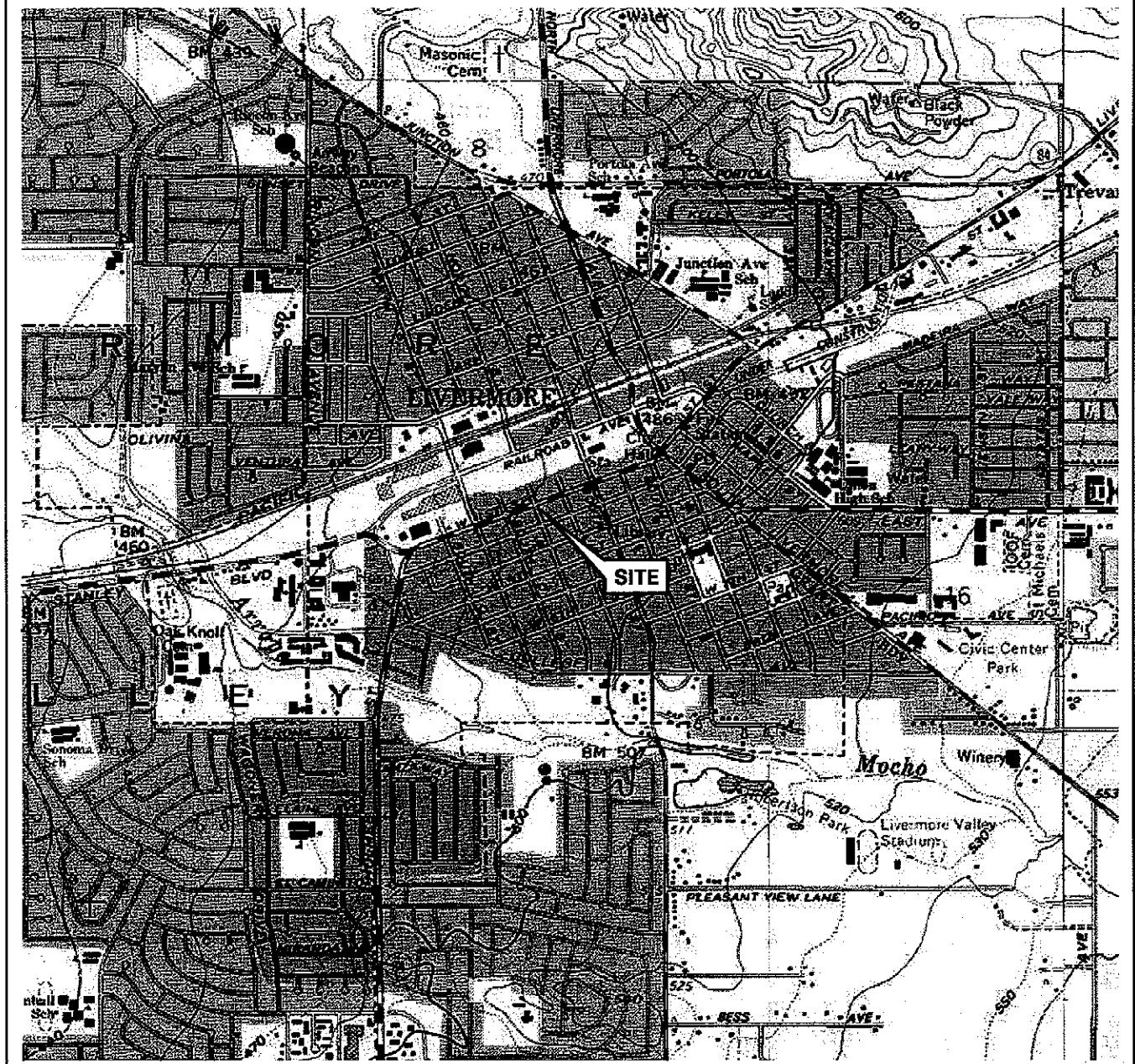
Table 2 e
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	Nitrogen			Post-purge Dissolved Oxygen (mg/l)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)	Post-purge ORP (mV)
	Fluoride (mg/l)	Nitrate (mg/l)	Sulfate (mg/l)				
U-6 continued							
03/26/07	--	--	--	--	6.40	6.26	15
06/27/07	--	--	--	--	3.51	3.20	-64
03/17/08	0.066	ND<0.44	51	860	1.19	1.87	101
06/12/08	0.11	0.45	27	860	1.10	2.08	-20
U-7							
10/01/02	--	--	--	--	1.80	--	--
12/30/02	--	--	--	--	0.10	--	--
05/02/03	--	--	--	--	0.40	--	--
07/01/03	--	--	--	--	0.50	--	--
10/03/03	--	--	--	--	2.91	--	--
01/08/04	--	--	--	--	11.85	--	--
04/15/04	--	--	--	--	4.68	--	--
07/15/04	--	--	--	--	2.55	--	--
12/08/04	--	--	--	--	1.20	--	--
03/23/05	--	--	--	--	0.21	--	--
06/28/05	--	--	--	--	1.32	--	--
09/23/05	--	--	--	--	2.25	--	--
12/30/05	--	--	--	--	1.12	--	--
03/24/06	--	--	--	--	1.09	0.99	008
06/26/06	--	--	--	--	1.46	1.27	025
09/26/06	--	--	--	--	0.78	1.02	-47
11/21/06	--	--	--	--	0.88	0.98	-43
03/26/07	--	--	--	--	5.85	6.00	14
06/27/07	--	--	--	--	2.98	2.60	-90
03/17/08	0.077	ND<0.44	7.0	640	3.06	2.86	137
							120

Table 2 e
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	Nitrogen as			Post-purge Dissolved Oxygen (mg/l)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)	Post-purge ORP (mV)
	Fluoride (mg/l)	Nitrate (mg/l)	Sulfate (mg/l)				
U-7 continued							
06/12/08	0.15	19	13	700	0.98	2.27	9 -11
U-12							
12/03/08	0.14	28	59	630	2.85	2.71	66 26
U-13							
12/03/08	0.16	26	65	610	1.70	2.21	62 58
U-14							
12/03/08	0.14	25	55	660	2.63	2.96	91 59
U-15							
12/03/08	0.13	21	52	670	2.21	2.55	108 118

FIGURES



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

SCALE 1:24,000



SOURCE:

United States Geological Survey
7.5 Minute Topographic Map:
Livermore Quadrangle



PROJECT: 154771

FACILITY:

76 STATION 4186
1771 FIRST STREET
LIVERMORE, CALIFORNIA

VICINITY MAP

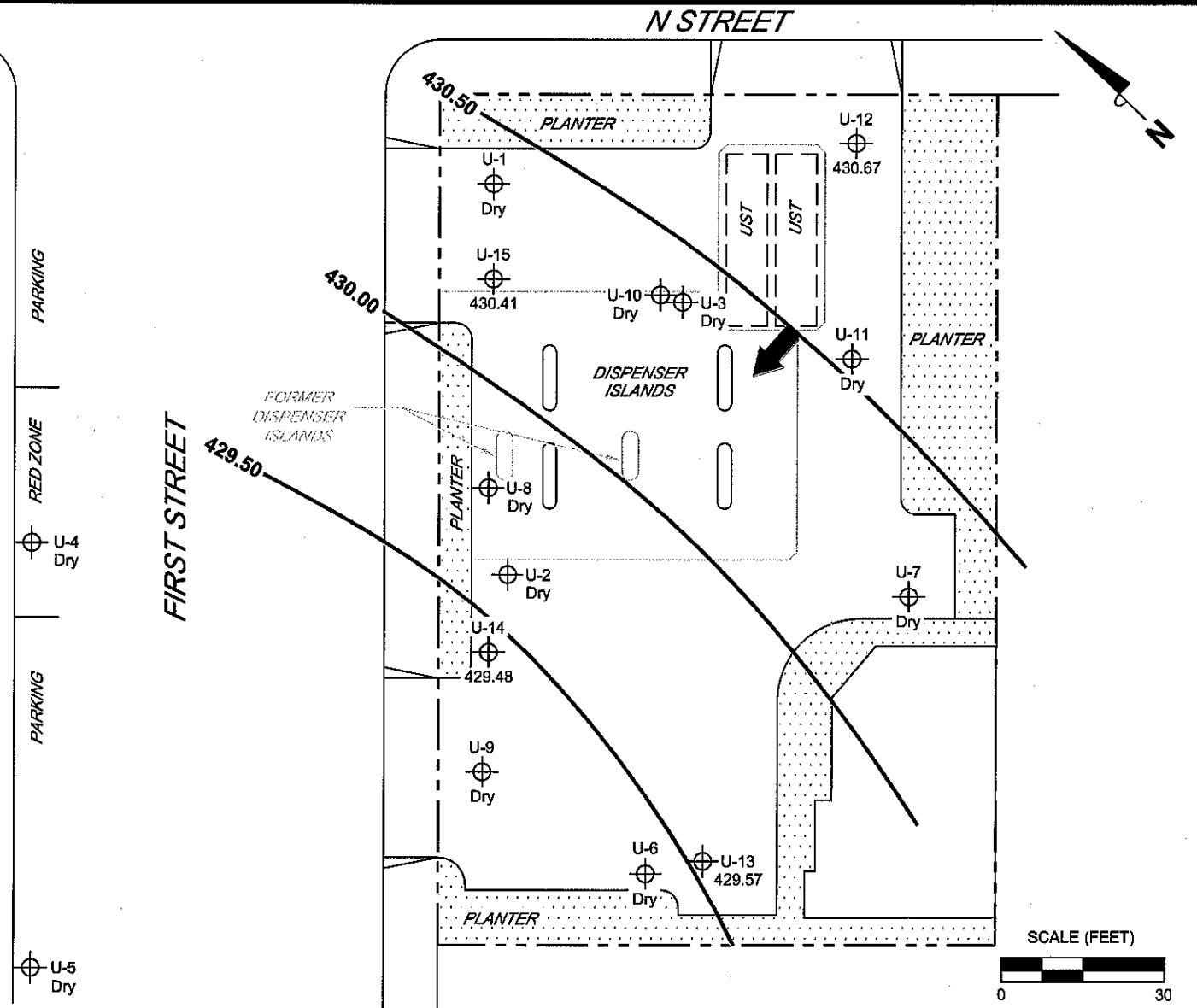
FIGURE 1

LEGEND

U-15 Monitoring Well with
Groundwater Elevation (feet)

430.50 — 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:

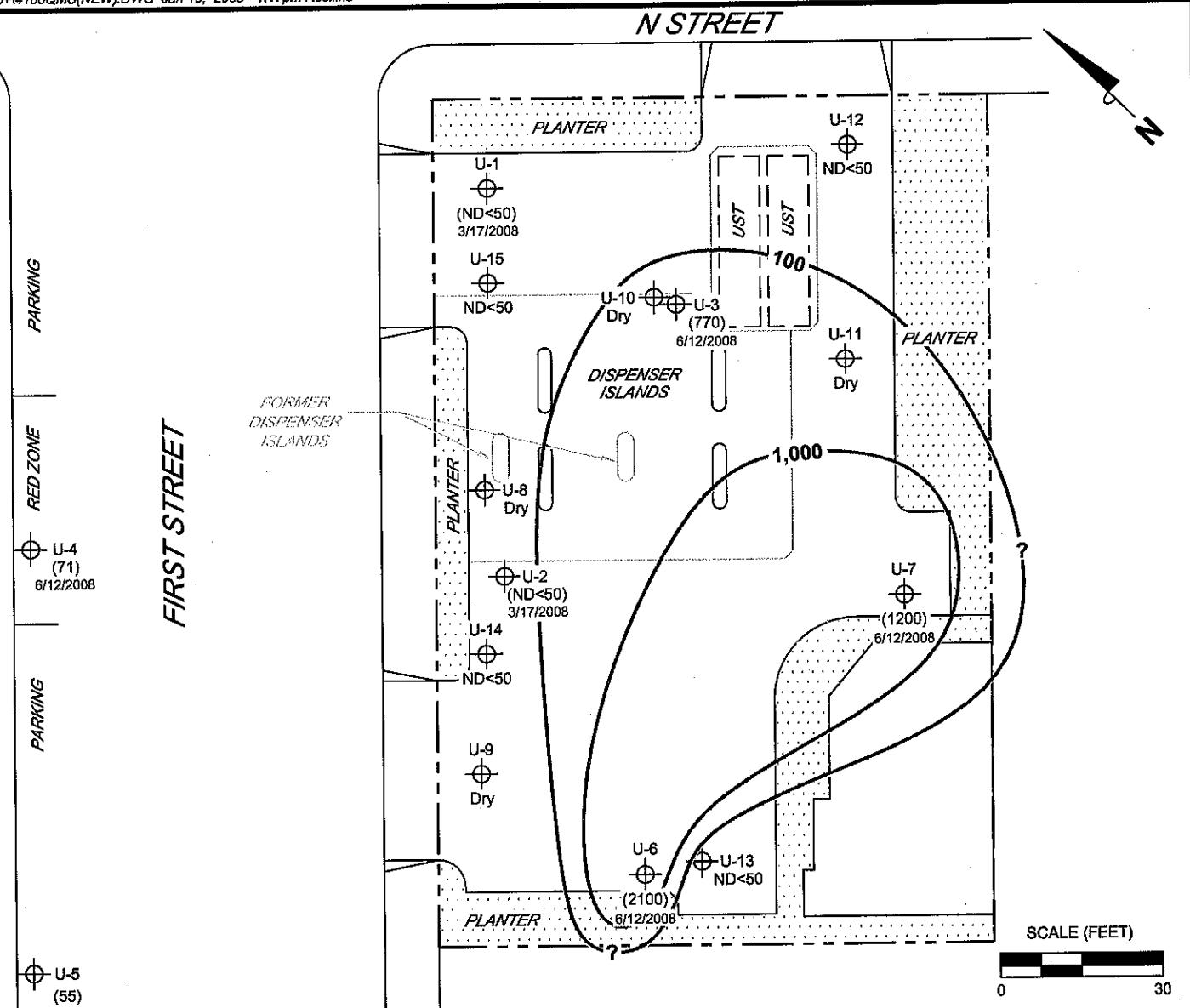
76 STATION 4186
1771 FIRST STREET
LIVERMORE, CALIFORNIA

**GROUNDWATER ELEVATION
CONTOUR MAP**
December 3, 2008

FIGURE 2

LEGEND

- U-15 Monitoring Well with
Dissolved-Phase TPH-G (GC/MS)
Concentration ($\mu\text{g/l}$)
- 1,000—** Dissolved-Phase TPH-G (GC/MS)
Contour ($\mu\text{g/l}$)

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.

$\mu\text{g/l}$ = 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

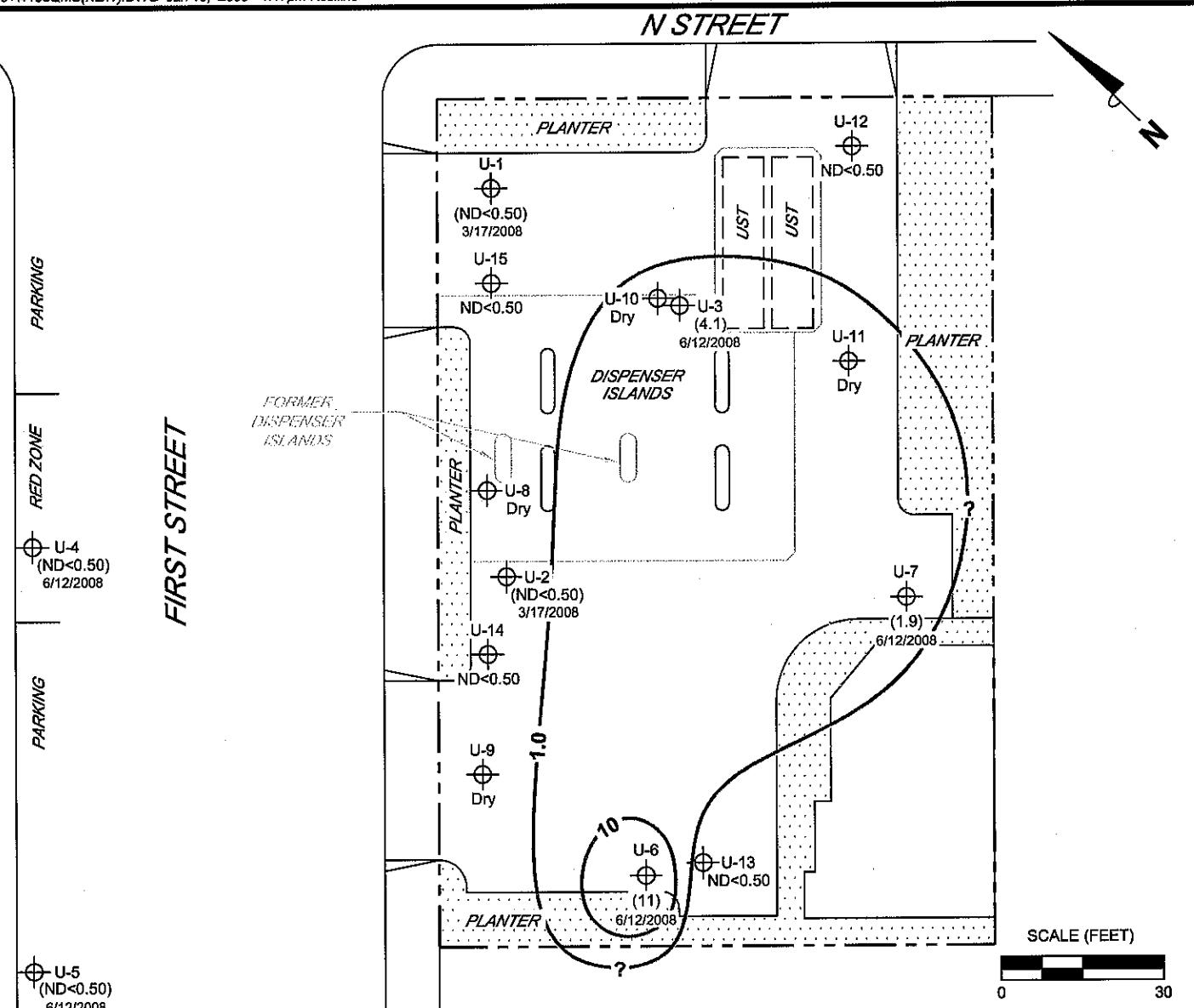
**DISSOLVED-PHASE TPH-G (GC/MS)
CONCENTRATION MAP**
December 3, 2008

FIGURE 3

LEGEND

U-15 Monitoring Well with
Dissolved-Phase Benzene
Concentration ($\mu\text{g/l}$)

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

NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples.

$\mu\text{g/l}$ = micrograms per liter. ND = not detected at limit indicated on official laboratory report.

() = representative historical value. UST = underground storage tank.



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FACILITY:
76 STATION 4186
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LIVERMORE, CALIFORNIA

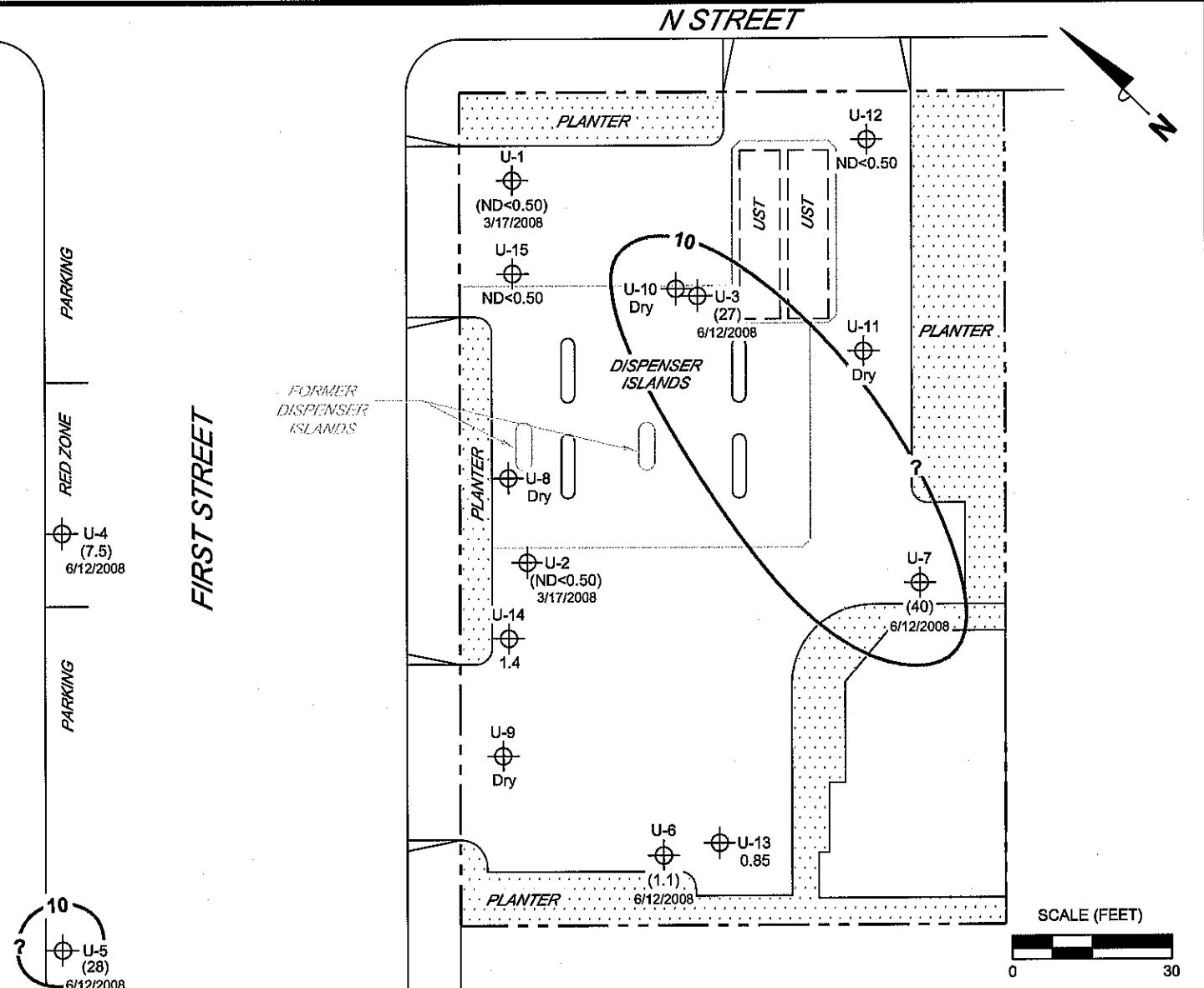
DISSOLVED-PHASE BENZENE
CONCENTRATION MAP
December 3, 2008

FIGURE 4

LEGEND

U-15 Monitoring Well with
Dissolved-Phase MTBE
Concentration ($\mu\text{g/l}$)

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

**NOTES:**

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. MTBE = methyl tertiary butyl ether. $\mu\text{g/l}$ = 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:

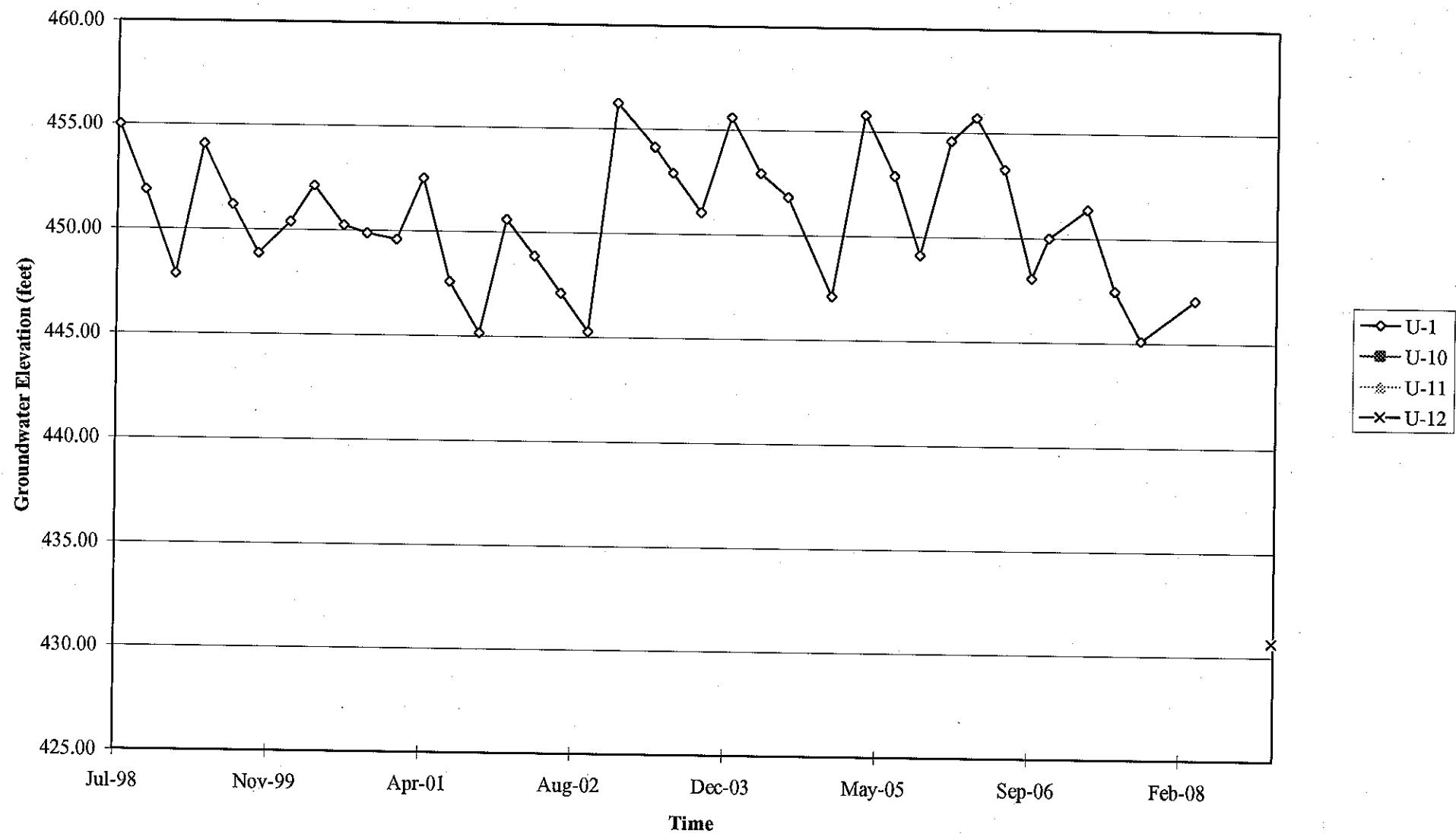
76 STATION 4186
1771 FIRST STREET
LIVERMORE, CALIFORNIA

**DISSOLVED-PHASE MTBE
CONCENTRATION MAP**
December 3, 2008

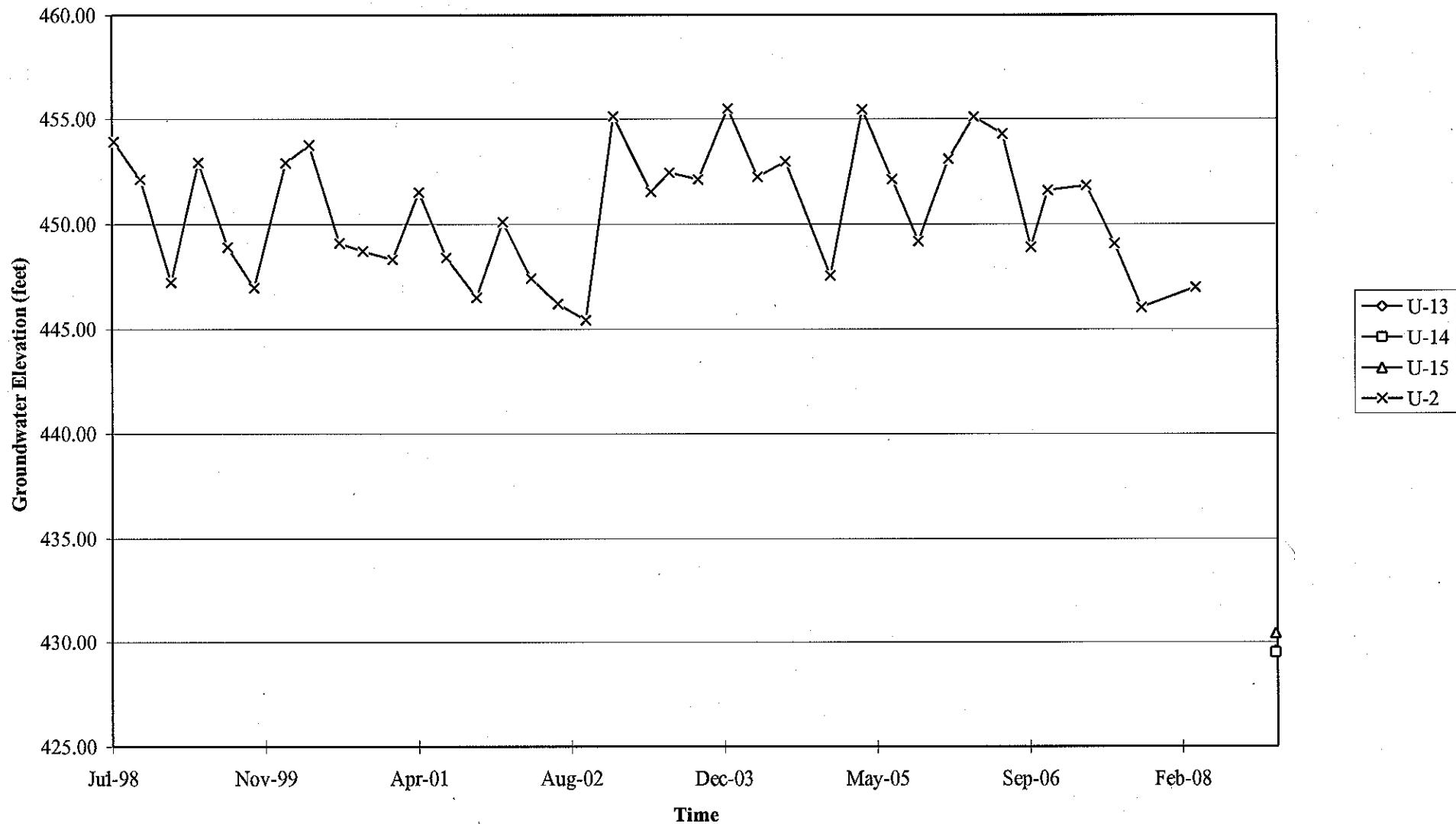
FIGURE 5

GRAPHS

Groundwater Elevations vs. Time
76 Station 4186

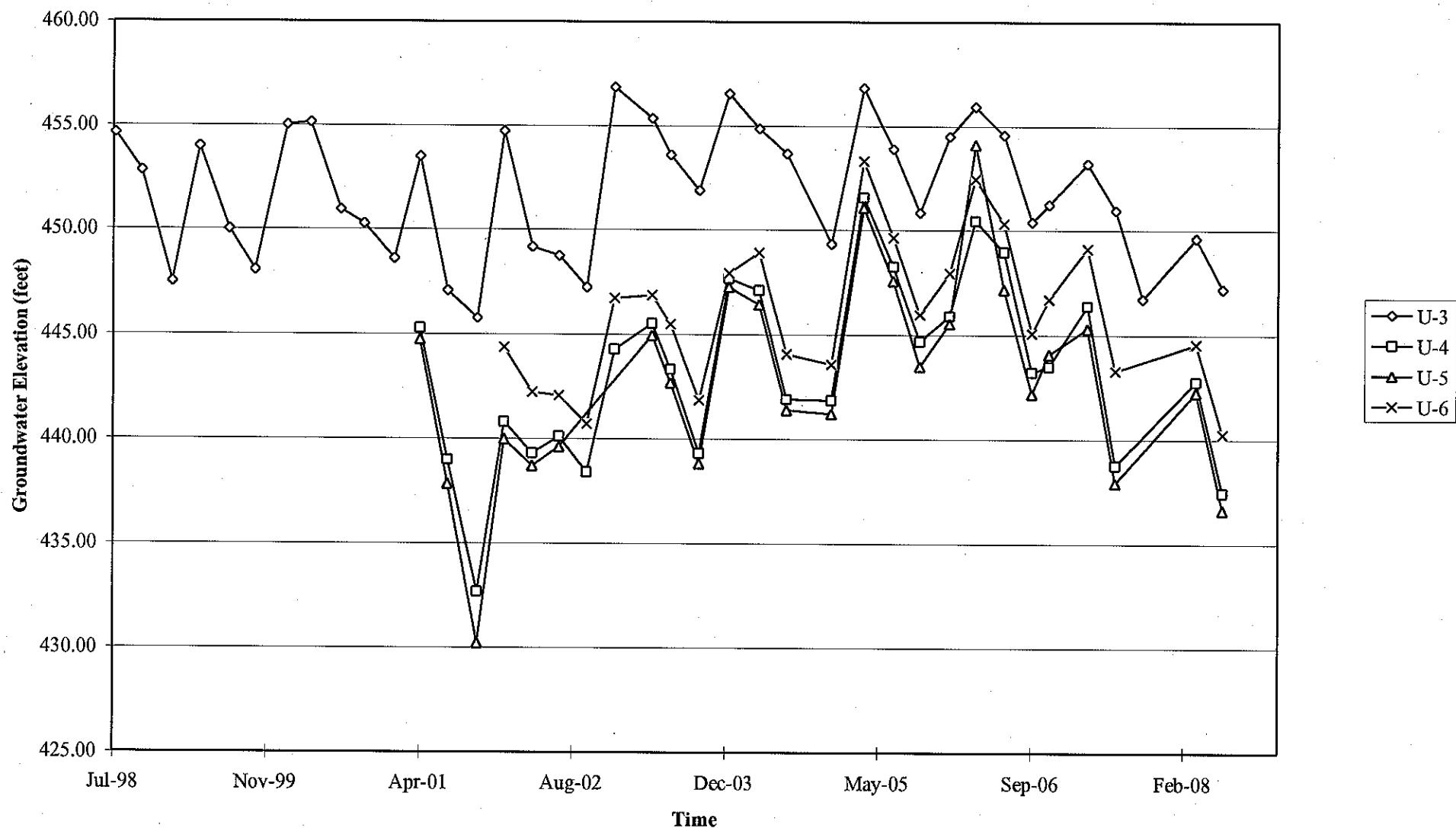


Groundwater Elevations vs. Time 76 Station 4186

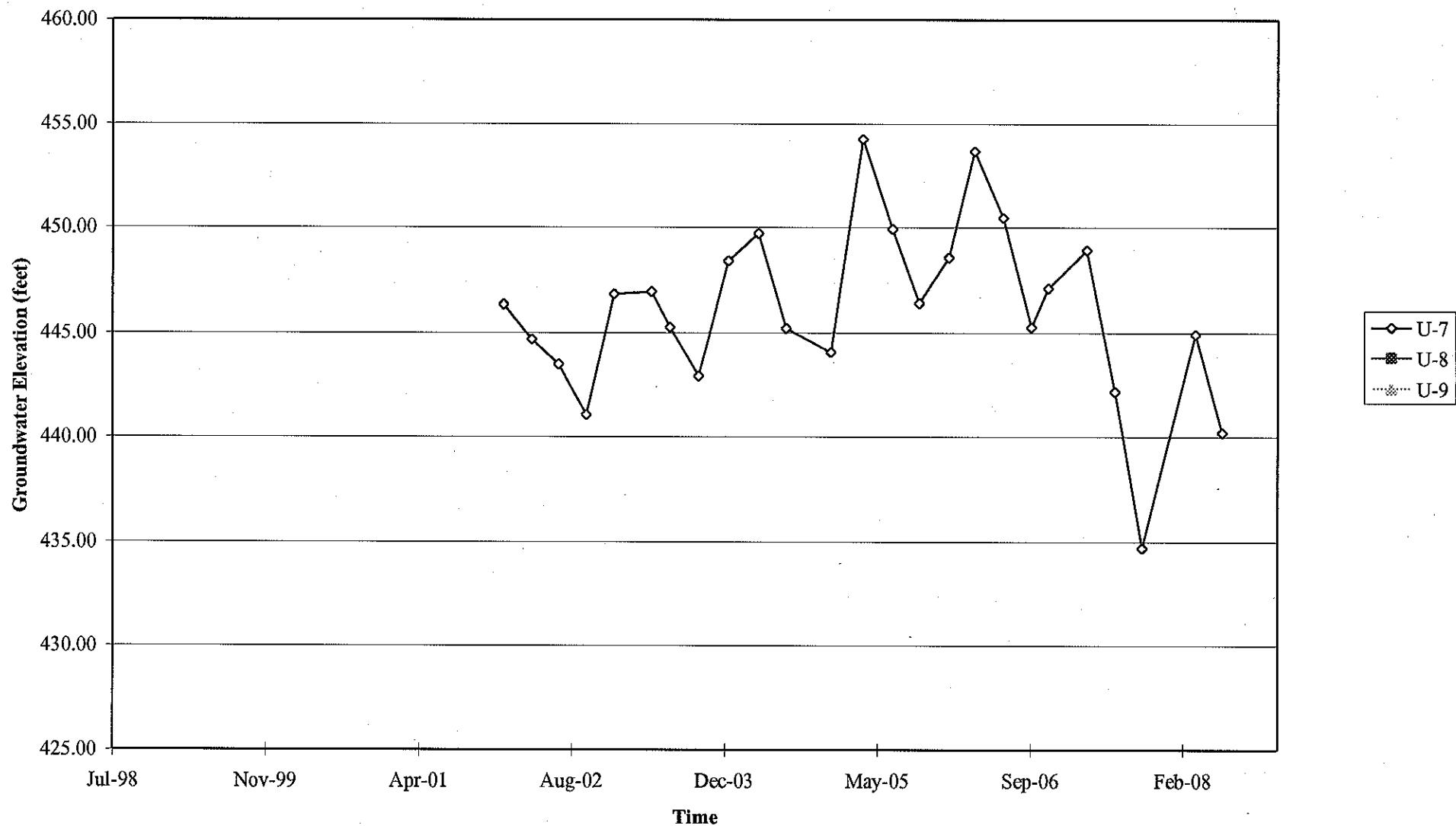


Elevations may have been corrected for apparent changes due to resurvey

Groundwater Elevations vs. Time
76 Station 4186

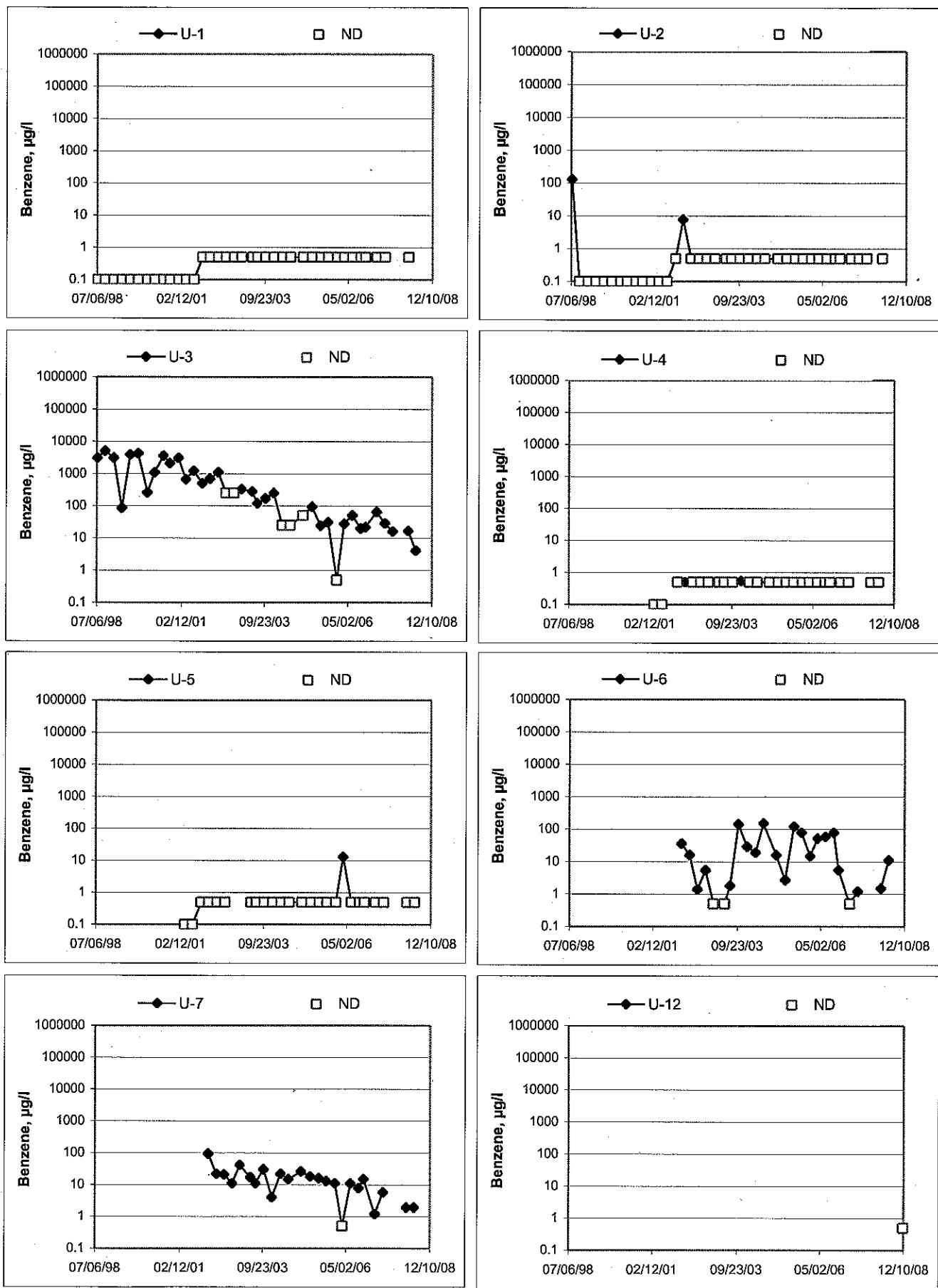


Groundwater Elevations vs. Time
76 Station 4186

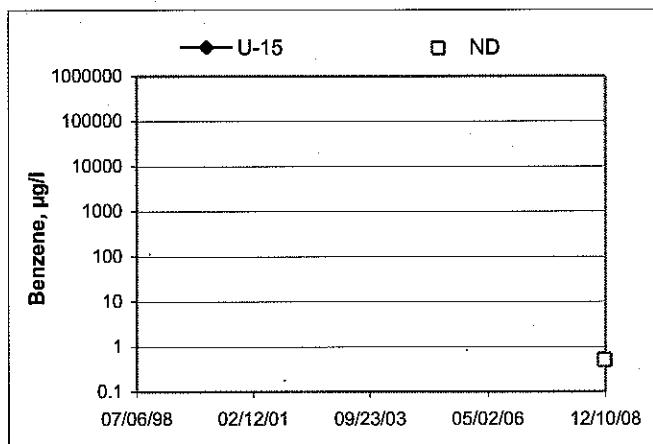
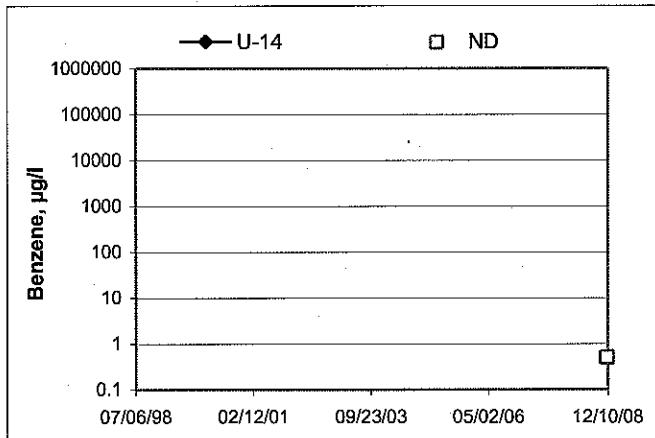
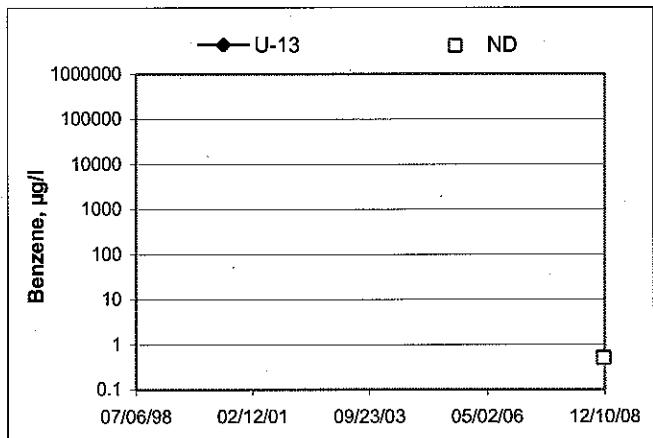


Elevations may have been corrected for apparent changes due to resurvey

Benzene Concentrations vs Time
76 Station 4186



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, $\frac{1}{2}$ -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.

FIELD MONITORING DATA SHEET

Technician: Andrew Vanders Job #/Task #: 154711 / E120

Date: 12/03/08

Site # 4186 Project Manager A. Collins

Project Manager A. Collier

Page 1 of 1

Page 1 of 1

FIELD DATA COMPLETE

QA/QC

606

WELL BOX CONDITION SHEETS

MANIFEST

DRUM INVENTORY

TRAFFIC CONTROL

GROUNDWATER SAMPLING FIELD NOTES

Technician: Adrian Videns

Site: 4186

Project No.: 154771

Date: 12/03/08

Well No. V-12

Purge Method: Sub

Depth to Water (feet): 50.08

Depth to Product (feet): —

Total Depth (feet) 74.18

LPH & Water Recovered (gallons): —

Water Column (feet) 24.10

Casing Diameter (Inches): 4

80% Recharge Depth(feet): 54.90

1 Well Volume (gallons): 17

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
0740			17	996.0	18.1	7.33	2.71	66	
			34	986.7	18.1	7.32	2.79	34	
0802			51	986.3	17.7	7.35	2.65	26	
Static at Time Sampled			Total Gallons Purged			Sample Time			
50.21			51			0808			
Comments:									

Well No. V-13

Purge Method: Sub

Depth to Water (feet): 50.74

Depth to Product (feet): —

Total Depth (feet) 73.00

LPH & Water Recovered (gallons): —

Water Column (feet): 22.26

Casing Diameter (Inches): 4

80% Recharge Depth(feet): 55.19

1 Well Volume (gallons): 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
0823			15	978.7	16.4	7.34	2.21	62	
			30	969.3	17.8	7.31	1.82	54	
0841			45	994.8	18.6	7.35	1.70	58	
Static at Time Sampled			Total Gallons Purged			Sample Time			
51.03			45			0847			
Comments:									

GROUNDWATER SAMPLING FIELD NOTES

Technician: Andrew Vanders

Site: 4196

Project No.: 154771

Date: 12/03/08

Well No. V-14

Purge Method: Sub

Depth to Water (feet): 49.90

Depth to Product (feet): —

Total Depth (feet) 72.18

LPH & Water Recovered (gallons): —

Water Column (feet) 22.28

Casing Diameter (Inches): 4

80% Recharge Depth(feet): 54.36

1 Well Volume (gallons): 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
0857			15	946.7	17.4	7.43	2.96	91	
			30	935.5	17.1	7.34	2.71	20	
	0914		45	937.1	19.2	7.25	2.63	59	
Static at Time Sampled			Total Gallons Purged			Sample Time			
<u>49.90</u>			<u>45</u>			<u>0923</u>			
Comments:									

Well No. V-15

Purge Method: Sub

Depth to Water (feet): 49.58

Depth to Product (feet): —

Total Depth (feet) 71.60

LPH & Water Recovered (gallons): —

Water Column (feet): 22.02

Casing Diameter (Inches): 4

80% Recharge Depth(feet): 53.98

1 Well Volume (gallons): 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
0934			15	925.8	19.1	7.46	2.55	108	
			30	929.4	20.5	7.38	2.39	114	
	0948		45	931.5	21.0	7.32	2.21	118	
Static at Time Sampled			Total Gallons Purged			Sample Time			
<u>49.76</u>			<u>45</u>			<u>0955</u>			
Comments:									

STATEMENT OF NON-COMPLETION OF JOB

DATE OF EVENT: 12/03/08 STATION NUMBER: 4186

NAME OF TECH: Andrew V. CALLED GORDON: _____

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

WELL NUMBER: V-9 STATEMENT FROM PM _____ OR TECH ✓

Well Dry

WELL NUMBER: V-8 STATEMENT FROM PM _____ OR TECH ✓

Well Dry

WELL NUMBER: V-10 STATEMENT FROM PM _____ OR TECH ✓

Well Dry

WELL NUMBER: V-11 STATEMENT FROM PM _____ OR TECH ✓

Well Dry

STATEMENT OF NON-COMPLETION OF JOB

DATE OF EVENT: 12/03/09 STATION NUMBER: 4186

NAME OF TECH: Andrew V. CALLED GORDON: _____

CALLED PM: ✓ NAME OF PM CALLED: A. Colling

WELL NUMBER: V-2 STATEMENT FROM PM _____ OR TECH ✓

Well Dry

WELL NUMBER: V-1 STATEMENT FROM PM _____ OR TECH ✓

Well Dry

WELL NUMBER: V-4 STATEMENT FROM PM _____ OR TECH ✓

Well Dry

WELL NUMBER: V-5 STATEMENT FROM PM _____ OR TECH ✓

Well Dry

STATEMENT OF NON-COMPLETION OF JOB

DATE OF EVENT: 12/03/08 STATION NUMBER: 4186
NAME OF TECH: Andrew Veltmers CALLED GORDON: _____
CALLED PM: ✓ NAME OF PM CALLED: A. Collins

WELL NUMBER: V-7 STATEMENT FROM PM _____ OR TECH ✓

Well Dry

WELL NUMBER: V-3 STATEMENT FROM PM _____ OR TECH ✓

Well Dry

WELL NUMBER: V-6 STATEMENT FROM PM _____ OR TECH ✓

Well Dry

WELL NUMBER: _____ STATEMENT FROM PM _____ OR TECH _____



Laboratories, Inc.

Environmental Testing Laboratory Since 1949

Date of Report: 12/18/2008

Anju Farfan

TRC
21 Technology Drive
Irvine, CA 92618

RE: 4186
BC Work Order: 0815902
Invoice ID: B054779

Enclosed are the results of analyses for samples received by the laboratory on 12/3/2008. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Molly Meyers".

Contact Person: Molly Meyers
Client Service Rep

A handwritten signature in black ink consisting of two distinct strokes.

Authorized Signature

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TRC
21 Technology Drive
Irvine, CA 92618

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

Reported: 12/18/2008 10:28

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
0815902-01	COC Number: --- Project Number: 4186 Sampling Location: --- Sampling Point: U-13 Sampled By: TRCI	Receive Date: 12/03/2008 22:50 Sampling Date: 12/03/2008 08:47 Sample Depth: --- Sample Matrix: Water	Metal Analysis: 2-Lab Filtered and Acidified Delivery Work Order: Global ID: T0600101777 Location ID (FieldPoint): U-13 Matrix: W Sample QC Type (SACode): CS Cooler ID:	
0815902-02	COC Number: --- Project Number: 4186 Sampling Location: --- Sampling Point: U-14 Sampled By: TRCI	Receive Date: 12/03/2008 22:50 Sampling Date: 12/03/2008 09:23 Sample Depth: --- Sample Matrix: Water	Metal Analysis: 2-Lab Filtered and Acidified Delivery Work Order: Global ID: T0600101777 Location ID (FieldPoint): U-14 Matrix: W Sample QC Type (SACode): CS Cooler ID:	
0815902-03	COC Number: --- Project Number: 4186 Sampling Location: --- Sampling Point: U-15 Sampled By: TRCI	Receive Date: 12/03/2008 22:50 Sampling Date: 12/03/2008 09:55 Sample Depth: --- Sample Matrix: Water	Metal Analysis: 2-Lab Filtered and Acidified Delivery Work Order: Global ID: T0600101777 Location ID (FieldPoint): U-15 Matrix: W Sample QC Type (SACode): CS Cooler ID:	

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

Reported: 12/18/2008 10:28

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		Receive Date:	Sampling Date:	Metal Analysis:
0815902-04	COC Number: Project Number: Sampling Location: Sampling Point: Sampled By:	--- 4186 --- U-12 TRCI	12/03/2008 22:50	12/03/2008 08:08	2-Lab Filtered and Acidified Delivery Work Order: Global ID: T0600101777 Location ID (FieldPoint): U-12 Matrix: W Sample QC Type (SACode): CS Cooler ID:

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

Reported: 12/18/2008 10:28

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0815902-01	Client Sample Name: 4186, U-13, 12/3/2008 8:47:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	QC Dilution	MB Batch ID	Lab Bias	Quals
Benzene	ND	ug/L	0.50		EPA-8260	12/08/08	12/09/08 07:23	KEA	MS-V12	1	BRL0611	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	12/08/08	12/09/08 07:23	KEA	MS-V12	1	BRL0611	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	12/08/08	12/09/08 07:23	KEA	MS-V12	1	BRL0611	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	12/08/08	12/09/08 07:23	KEA	MS-V12	1	BRL0611	ND	
Methyl t-butyl ether	0.85	ug/L	0.50		EPA-8260	12/08/08	12/09/08 07:23	KEA	MS-V12	1	BRL0611	ND	
Toluene	ND	ug/L	0.50		EPA-8260	12/08/08	12/09/08 07:23	KEA	MS-V12	1	BRL0611	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	12/08/08	12/09/08 07:23	KEA	MS-V12	1	BRL0611	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	12/08/08	12/09/08 07:23	KEA	MS-V12	1	BRL0611	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	12/08/08	12/09/08 07:23	KEA	MS-V12	1	BRL0611	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	12/08/08	12/09/08 07:23	KEA	MS-V12	1	BRL0611	ND	
Ethanol	ND	ug/L	250		EPA-8260	12/08/08	12/09/08 07:23	KEA	MS-V12	1	BRL0611	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	12/08/08	12/09/08 07:23	KEA	MS-V12	1	BRL0611	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	12/08/08	12/09/08 07:23	KEA	MS-V12	1	BRL0611	ND	
1,2-Dichloroethane-d4 (Surrogate)	96.0	%	76 - 114 (LCL - UCL)		EPA-8260	12/08/08	12/09/08 07:23	KEA	MS-V12	1	BRL0611		
Toluene-d8 (Surrogate)	96.8	%	88 - 110 (LCL - UCL)		EPA-8260	12/08/08	12/09/08 07:23	KEA	MS-V12	1	BRL0611		
4-Bromofluorobenzene (Surrogate)	98.3	%	86 - 115 (LCL - UCL)		EPA-8260	12/08/08	12/09/08 07:23	KEA	MS-V12	1	BRL0611		

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

Reported: 12/18/2008 10:28

Water Analysis (General Chemistry)

BCL Sample ID:	0815902-01	Client Sample Name: 4186, U-13, 12/3/2008 8:47:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Calcium	24	mg/L	0.10		EPA-6010B	12/04/08	12/05/08 10:36	ARD	PE-OP1	1	BRL0429	ND	
Magnesium	53	mg/L	0.050		EPA-6010B	12/04/08	12/05/08 10:36	ARD	PE-OP1	1	BRL0429	ND	
Sodium	59	mg/L	0.50		EPA-6010B	12/04/08	12/05/08 10:36	ARD	PE-OP1	1	BRL0429	ND	
Potassium	8.3	mg/L	1.0		EPA-6010B	12/04/08	12/05/08 10:36	ARD	PE-OP1	1	BRL0429	ND	
Chloride	95	mg/L	0.50		EPA-300.0	12/04/08	12/04/08 09:10	VH1	IC1	1	BRL0450	ND	
Fluoride	0.16	mg/L	0.050		EPA-300.0	12/04/08	12/04/08 09:10	VH1	IC1	1	BRL0450	ND	
Nitrate as NO ₃	26	mg/L	0.44		EPA-300.0	12/04/08	12/04/08 09:10	VH1	IC1	1	BRL0450	ND	
Sulfate	65	mg/L	1.0		EPA-300.0	12/04/08	12/04/08 09:10	VH1	IC1	1	BRL0450	ND	
Total Dissolved Solids @ 180 C	610	mg/L	33		EPA-160.1	12/08/08	12/08/08 08:10	JLR	MANUAL	3.333	BRL0799	ND	

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

Reported: 12/18/2008 10:28

Water Analysis (Metals)

BCL Sample ID:	0815902-01	Client Sample Name: 4186, U-13, 12/3/2008 8:47:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Instrument ID	QC	MB	Lab Quals	
Antimony	ND	ug/L	100		EPA-6010B	12/04/08	12/05/08 10:36	ARD	PE-OP1	1	BRL0429	ND
Arsenic	ND	ug/L	50		EPA-6010B	12/04/08	12/05/08 10:36	ARD	PE-OP1	1	BRL0429	ND
Hexavalent Chromium	86	ug/L	2.0		EPA-7196	12/04/08	12/04/08 00:03	TDC	KONE-1	1	BRL0588	ND
Barium	110	ug/L	10		EPA-6010B	12/04/08	12/05/08 10:36	ARD	PE-OP1	1	BRL0429	ND
Beryllium	ND	ug/L	10		EPA-6010B	12/04/08	12/05/08 10:36	ARD	PE-OP1	1	BRL0429	ND
Cadmium	ND	ug/L	10		EPA-6010B	12/04/08	12/05/08 10:36	ARD	PE-OP1	1	BRL0429	ND
Chromium	86	ug/L	10		EPA-6010B	12/04/08	12/05/08 10:36	ARD	PE-OP1	1	BRL0429	ND
Cobalt	ND	ug/L	50		EPA-6010B	12/04/08	12/05/08 10:36	ARD	PE-OP1	1	BRL0429	ND
Copper	ND	ug/L	10		EPA-6010B	12/04/08	12/05/08 10:36	ARD	PE-OP1	1	BRL0429	ND
Lead	ND	ug/L	50		EPA-6010B	12/04/08	12/05/08 10:36	ARD	PE-OP1	1	BRL0429	ND
Manganese	ND	ug/L	10		EPA-6010B	12/04/08	12/05/08 10:36	ARD	PE-OP1	1	BRL0429	ND
Mercury	ND	ug/L	0.20		EPA-7470A	12/09/08	12/10/08 11:48	MEV	CETAC1	1	BRL0716	ND
Molybdenum	ND	ug/L	50		EPA-6010B	12/04/08	12/05/08 10:36	ARD	PE-OP1	1	BRL0429	ND
Nickel	ND	ug/L	10		EPA-6010B	12/04/08	12/05/08 10:36	ARD	PE-OP1	1	BRL0429	ND
Selenium	ND	ug/L	100		EPA-6010B	12/04/08	12/05/08 10:36	ARD	PE-OP1	1	BRL0429	ND
Silver	ND	ug/L	10		EPA-6010B	12/04/08	12/05/08 10:36	ARD	PE-OP1	1	BRL0429	ND
Thallium	ND	ug/L	100		EPA-6010B	12/04/08	12/05/08 10:36	ARD	PE-OP1	1	BRL0429	ND
Vanadium	ND	ug/L	10		EPA-6010B	12/04/08	12/05/08 10:36	ARD	PE-OP1	1	BRL0429	ND
Zinc	ND	ug/L	10		EPA-6010B	12/04/08	12/05/08 10:36	ARD	PE-OP1	1	BRL0429	ND
Total Antimony	ND	ug/L	100		EPA-6010B	12/05/08	12/08/08 09:57	ARD	PE-OP1	1	BRL0452	ND
Total Arsenic	ND	ug/L	50		EPA-6010B	12/05/08	12/08/08 09:57	ARD	PE-OP1	1	BRL0452	ND
Total Barium	140	ug/L	10		EPA-6010B	12/05/08	12/08/08 09:57	ARD	PE-OP1	1	BRL0452	ND
Total Beryllium	ND	ug/L	10		EPA-6010B	12/05/08	12/08/08 09:57	ARD	PE-OP1	1	BRL0452	ND

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TRC
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Irvine, CA 92618

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

Reported: 12/18/2008 10:28

Water Analysis (Metals)

BCL Sample ID:	0815902-01	Client Sample Name: 4186, U-13, 12/3/2008 8:47:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Instrument ID	QC	MB	Lab Quals	
Total Cadmium	ND	ug/L	10		EPA-6010B	12/05/08	12/08/08 09:57	ARD	PE-OP1	1	BRL0452	ND
Total Chromium	93	ug/L	10		EPA-6010B	12/05/08	12/08/08 09:57	ARD	PE-OP1	1	BRL0452	ND
Total Cobalt	ND	ug/L	50		EPA-6010B	12/05/08	12/08/08 09:57	ARD	PE-OP1	1	BRL0452	ND
Total Copper	21	ug/L	10		EPA-6010B	12/05/08	12/08/08 09:57	ARD	PE-OP1	1	BRL0452	ND
Total Lead	ND	ug/L	50		EPA-6010B	12/05/08	12/08/08 09:57	ARD	PE-OP1	1	BRL0452	ND
Total Mercury	ND	ug/L	0.20		EPA-7470A	12/08/08	12/09/08 16:06	MEV	CETAC1	1	BRL0646	ND
Total Molybdenum	ND	ug/L	50		EPA-6010B	12/05/08	12/08/08 09:57	ARD	PE-OP1	1	BRL0452	ND
Total Nickel	ND	ug/L	10		EPA-6010B	12/05/08	12/08/08 09:57	ARD	PE-OP1	1	BRL0452	ND
Total Selenium	ND	ug/L	100		EPA-6010B	12/05/08	12/08/08 09:57	ARD	PE-OP1	1	BRL0452	ND
Total Silver	ND	ug/L	10		EPA-6010B	12/05/08	12/08/08 09:57	ARD	PE-OP1	1	BRL0452	ND
Total Thallium	ND	ug/L	100		EPA-6010B	12/05/08	12/08/08 09:57	ARD	PE-OP1	1	BRL0452	ND
Total Vanadium	ND	ug/L	10		EPA-6010B	12/05/08	12/08/08 09:57	ARD	PE-OP1	1	BRL0452	ND
Total Zinc	ND	ug/L	50		EPA-6010B	12/05/08	12/08/08 09:57	ARD	PE-OP1	1	BRL0452	ND

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21 Technology Drive
Irvine, CA 92618

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

Reported: 12/18/2008 10:28

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	Client Sample Name:		4186, U-14, 12/3/2008 9:23:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	QC Dilution	MB Batch ID	Lab Bias	Quals
Benzene	ND	ug/L	0.50		EPA-8260	12/08/08	12/09/08 06:59	KEA	MS-V12	1	BRL0611	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	12/08/08	12/09/08 06:59	KEA	MS-V12	1	BRL0611	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	12/08/08	12/09/08 06:59	KEA	MS-V12	1	BRL0611	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	12/08/08	12/09/08 06:59	KEA	MS-V12	1	BRL0611	ND	
Methyl t-butyl ether	1.4	ug/L	0.50		EPA-8260	12/08/08	12/09/08 06:59	KEA	MS-V12	1	BRL0611	ND	
Toluene	ND	ug/L	0.50		EPA-8260	12/08/08	12/09/08 06:59	KEA	MS-V12	1	BRL0611	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	12/08/08	12/09/08 06:59	KEA	MS-V12	1	BRL0611	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	12/08/08	12/09/08 06:59	KEA	MS-V12	1	BRL0611	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	12/08/08	12/09/08 06:59	KEA	MS-V12	1	BRL0611	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	12/08/08	12/09/08 06:59	KEA	MS-V12	1	BRL0611	ND	
Ethanol	ND	ug/L	250		EPA-8260	12/08/08	12/09/08 06:59	KEA	MS-V12	1	BRL0611	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	12/08/08	12/09/08 06:59	KEA	MS-V12	1	BRL0611	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	12/08/08	12/09/08 06:59	KEA	MS-V12	1	BRL0611	ND	
1,2-Dichloroethane-d4 (Surrogate)	92.7	%	76 - 114 (LCL - UCL)		EPA-8260	12/08/08	12/09/08 06:59	KEA	MS-V12	1	BRL0611		
Toluene-d8 (Surrogate)	98.6	%	88 - 110 (LCL - UCL)		EPA-8260	12/08/08	12/09/08 06:59	KEA	MS-V12	1	BRL0611		
4-Bromofluorobenzene (Surrogate)	93.3	%	86 - 115 (LCL - UCL)		EPA-8260	12/08/08	12/09/08 06:59	KEA	MS-V12	1	BRL0611		

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TRC
21 Technology Drive
Irvine, CA 92618

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

Reported: 12/18/2008 10:28

Water Analysis (General Chemistry)

BCL Sample ID:	0815902-02	Client Sample Name: 4186, U-14, 12/3/2008 9:23:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Calcium	47	mg/L	0.10		EPA-6010B	12/04/08	12/05/08 10:50	ARD	PE-OP1	1	BRL0429	ND	
Magnesium	67	mg/L	0.050		EPA-6010B	12/04/08	12/05/08 10:50	ARD	PE-OP1	1	BRL0429	ND	
Sodium	48	mg/L	0.50		EPA-6010B	12/04/08	12/05/08 10:50	ARD	PE-OP1	1	BRL0429	ND	
Potassium	2.6	mg/L	1.0		EPA-6010B	12/04/08	12/05/08 10:50	ARD	PE-OP1	1	BRL0429	ND	
Chloride	85	mg/L	0.50		EPA-300.0	12/04/08	12/04/08 10:10	VH1	IC1	1	BRL0450	ND	
Fluoride	0.14	mg/L	0.050		EPA-300.0	12/04/08	12/04/08 10:10	VH1	IC1	1	BRL0450	ND	
Nitrate as NO ₃	25	mg/L	0.44		EPA-300.0	12/04/08	12/04/08 10:10	VH1	IC1	1	BRL0450	ND	
Sulfate	55	mg/L	1.0		EPA-300.0	12/04/08	12/04/08 10:10	VH1	IC1	1	BRL0450	ND	
Total Dissolved Solids @ 180 C	660	mg/L	33		EPA-160.1	12/08/08	12/08/08 08:10	JLR	MANUAL	3.333	BRL0799	ND	

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

Reported: 12/18/2008 10:28

Water Analysis (Metals)

BCL Sample ID:	0815902-02	Client Sample Name:	4186, U-14, 12/3/2008 9:23:00AM										
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	12/04/08	12/05/08 10:50	ARD	PE-OP1	1	BRL0429	ND	
Arsenic	ND	ug/L	50		EPA-6010B	12/04/08	12/05/08 10:50	ARD	PE-OP1	1	BRL0429	ND	
Hexavalent Chromium	3.0	ug/L	2.0		EPA-7196	12/04/08	12/04/08 08:43	TDC	KONE-1	1	BRL0591	ND	
Barium	320	ug/L	10		EPA-6010B	12/04/08	12/05/08 10:50	ARD	PE-OP1	1	BRL0429	ND	
Beryllium	ND	ug/L	10		EPA-6010B	12/04/08	12/05/08 10:50	ARD	PE-OP1	1	BRL0429	ND	
Cadmium	ND	ug/L	10		EPA-6010B	12/04/08	12/05/08 10:50	ARD	PE-OP1	1	BRL0429	ND	
Chromium	ND	ug/L	10		EPA-6010B	12/04/08	12/05/08 10:50	ARD	PE-OP1	1	BRL0429	ND	
Cobalt	ND	ug/L	50		EPA-6010B	12/04/08	12/05/08 10:50	ARD	PE-OP1	1	BRL0429	ND	
Copper	ND	ug/L	10		EPA-6010B	12/04/08	12/05/08 10:50	ARD	PE-OP1	1	BRL0429	ND	
Lead	ND	ug/L	50		EPA-6010B	12/04/08	12/05/08 10:50	ARD	PE-OP1	1	BRL0429	ND	
Manganese	ND	ug/L	10		EPA-6010B	12/04/08	12/05/08 10:50	ARD	PE-OP1	1	BRL0429	ND	
Mercury	ND	ug/L	0.20		EPA-7470A	12/09/08	12/10/08 11:51	MEV	CETAC1	1	BRL0716	ND	
Molybdenum	ND	ug/L	50		EPA-6010B	12/04/08	12/05/08 10:50	ARD	PE-OP1	1	BRL0429	ND	
Nickel	ND	ug/L	10		EPA-6010B	12/04/08	12/05/08 10:50	ARD	PE-OP1	1	BRL0429	ND	
Selenium	ND	ug/L	100		EPA-6010B	12/04/08	12/05/08 10:50	ARD	PE-OP1	1	BRL0429	ND	
Silver	ND	ug/L	10		EPA-6010B	12/04/08	12/05/08 10:50	ARD	PE-OP1	1	BRL0429	ND	
Thallium	ND	ug/L	100		EPA-6010B	12/04/08	12/05/08 10:50	ARD	PE-OP1	1	BRL0429	ND	
Vanadium	ND	ug/L	10		EPA-6010B	12/04/08	12/05/08 10:50	ARD	PE-OP1	1	BRL0429	ND	
Zinc	43	ug/L	10		EPA-6010B	12/04/08	12/05/08 10:50	ARD	PE-OP1	1	BRL0429	ND	
Total Antimony	ND	ug/L	100		EPA-6010B	12/05/08	12/08/08 09:59	ARD	PE-OP1	1	BRL0452	ND	
Total Arsenic	ND	ug/L	50		EPA-6010B	12/05/08	12/08/08 09:59	ARD	PE-OP1	1	BRL0452	ND	
Total Barium	340	ug/L	10		EPA-6010B	12/05/08	12/08/08 09:59	ARD	PE-OP1	1	BRL0452	ND	
Total Beryllium	ND	ug/L	10		EPA-6010B	12/05/08	12/08/08 09:59	ARD	PE-OP1	1	BRL0452	ND	

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TRC
21 Technology Drive
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Project: 4186
Project Number: [none]
Project Manager: Anju Farfan

Reported: 12/18/2008 10:28

Water Analysis (Metals)

BCL Sample ID:	0815902-02	Client Sample Name: 4186, U-14, 12/3/2008 9:23:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Instrument ID	QC	MB	Lab Quals	
Total Cadmium	ND	ug/L	10	EPA-6010B	12/05/08	12/08/08 09:59	ARD	PE-OP1	1	BRL0452	ND	
Total Chromium	ND	ug/L	10	EPA-6010B	12/05/08	12/08/08 09:59	ARD	PE-OP1	1	BRL0452	ND	
Total Cobalt	ND	ug/L	50	EPA-6010B	12/05/08	12/08/08 09:59	ARD	PE-OP1	1	BRL0452	ND	
Total Copper	26	ug/L	10	EPA-6010B	12/05/08	12/08/08 09:59	ARD	PE-OP1	1	BRL0452	ND	
Total Lead	ND	ug/L	50	EPA-6010B	12/05/08	12/08/08 09:59	ARD	PE-OP1	1	BRL0452	ND	
Total Mercury	ND	ug/L	0.20	EPA-7470A	12/08/08	12/09/08 16:08	MEV	CETAC1	1	BRL0646	ND	
Total Molybdenum	ND	ug/L	50	EPA-6010B	12/05/08	12/08/08 09:59	ARD	PE-OP1	1	BRL0452	ND	
Total Nickel	15	ug/L	10	EPA-6010B	12/05/08	12/08/08 09:59	ARD	PE-OP1	1	BRL0452	ND	
Total Selenium	ND	ug/L	100	EPA-6010B	12/05/08	12/08/08 09:59	ARD	PE-OP1	1	BRL0452	ND	
Total Silver	ND	ug/L	10	EPA-6010B	12/05/08	12/08/08 09:59	ARD	PE-OP1	1	BRL0452	ND	
Total Thallium	ND	ug/L	100	EPA-6010B	12/05/08	12/08/08 09:59	ARD	PE-OP1	1	BRL0452	ND	
Total Vanadium	ND	ug/L	10	EPA-6010B	12/05/08	12/08/08 09:59	ARD	PE-OP1	1	BRL0452	ND	
Total Zinc	69	ug/L	50	EPA-6010B	12/05/08	12/08/08 09:59	ARD	PE-OP1	1	BRL0452	ND	

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21 Technology Drive
Irvine, CA 92618

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

Reported: 12/18/2008 10:28

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0815902-03	Client Sample Name: 4186, U-15, 12/3/2008 9:55:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Instrument ID	QC	MB	Lab Quals	
Benzene	ND	ug/L	0.50		EPA-8260	12/08/08	12/09/08 06:36	KEA	MS-V12	1	BRL0611	ND
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	12/08/08	12/09/08 06:36	KEA	MS-V12	1	BRL0611	ND
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	12/08/08	12/09/08 06:36	KEA	MS-V12	1	BRL0611	ND
Ethylbenzene	ND	ug/L	0.50		EPA-8260	12/08/08	12/09/08 06:36	KEA	MS-V12	1	BRL0611	ND
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	12/08/08	12/09/08 06:36	KEA	MS-V12	1	BRL0611	ND
Toluene	ND	ug/L	0.50		EPA-8260	12/08/08	12/09/08 06:36	KEA	MS-V12	1	BRL0611	ND
Total Xylenes	ND	ug/L	1.0		EPA-8260	12/08/08	12/09/08 06:36	KEA	MS-V12	1	BRL0611	ND
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	12/08/08	12/09/08 06:36	KEA	MS-V12	1	BRL0611	ND
t-Butyl alcohol	ND	ug/L	10		EPA-8260	12/08/08	12/09/08 06:36	KEA	MS-V12	1	BRL0611	ND
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	12/08/08	12/09/08 06:36	KEA	MS-V12	1	BRL0611	ND
Ethanol	ND	ug/L	250		EPA-8260	12/08/08	12/09/08 06:36	KEA	MS-V12	1	BRL0611	ND
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	12/08/08	12/09/08 06:36	KEA	MS-V12	1	BRL0611	ND
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	12/08/08	12/09/08 06:36	KEA	MS-V12	1	BRL0611	ND
1,2-Dichloroethane-d4 (Surrogate)	93.5	%	76 - 114 (LCL - UCL)		EPA-8260	12/08/08	12/09/08 06:36	KEA	MS-V12	1	BRL0611	
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)		EPA-8260	12/08/08	12/09/08 06:36	KEA	MS-V12	1	BRL0611	
4-Bromofluorobenzene (Surrogate)	98.0	%	86 - 115 (LCL - UCL)		EPA-8260	12/08/08	12/09/08 06:36	KEA	MS-V12	1	BRL0611	

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

Reported: 12/18/2008 10:28

Water Analysis (General Chemistry)

BCL Sample ID:	0815902-03	Client Sample Name:	4186, U-15, 12/3/2008 9:55:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	QC Dilution	MB Batch ID	Lab Bias	Quals
Calcium	47	mg/L	0.10		EPA-6010B	12/04/08	12/05/08 10:52	ARD	PE-OP1	1	BRL0429	ND	
Magnesium	69	mg/L	0.050		EPA-6010B	12/04/08	12/05/08 10:52	ARD	PE-OP1	1	BRL0429	ND	
Sodium	48	mg/L	0.50		EPA-6010B	12/04/08	12/05/08 10:52	ARD	PE-OP1	1	BRL0429	ND	
Potassium	3.7	mg/L	1.0		EPA-6010B	12/04/08	12/05/08 10:52	ARD	PE-OP1	1	BRL0429	ND	
Chloride	87	mg/L	0.50		EPA-300.0	12/04/08	12/04/08 10:26	VH1	IC1	1	BRL0450	ND	
Fluoride	0.13	mg/L	0.050		EPA-300.0	12/04/08	12/04/08 10:26	VH1	IC1	1	BRL0450	ND	
Nitrate as NO ₃	21	mg/L	0.44		EPA-300.0	12/04/08	12/04/08 10:26	VH1	IC1	1	BRL0450	ND	
Sulfate	52	mg/L	1.0		EPA-300.0	12/04/08	12/04/08 10:26	VH1	IC1	1	BRL0450	ND	
Total Dissolved Solids @ 180 C	670	mg/L	33		EPA-160.1	12/08/08	12/08/08 08:10	JLR	MANUAL	3.333	BRL0799	ND	

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

Reported: 12/18/2008 10:28

Water Analysis (Metals)

BCL Sample ID:	0815902-03	Client Sample Name: 4186, U-15, 12/3/2008 9:55:00AM											
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	12/04/08	12/05/08 10:52	ARD	PE-OP1	1	BRL0429	ND	
Arsenic	ND	ug/L	50		EPA-6010B	12/04/08	12/05/08 10:52	ARD	PE-OP1	1	BRL0429	ND	
Hexavalent Chromium	3.7	ug/L	2.0		EPA-7196	12/04/08	12/04/08 08:50	TDC	KONE-1	1	BRL0591	ND	
Barium	300	ug/L	10		EPA-6010B	12/04/08	12/05/08 10:52	ARD	PE-OP1	1	BRL0429	ND	
Beryllium	ND	ug/L	10		EPA-6010B	12/04/08	12/05/08 10:52	ARD	PE-OP1	1	BRL0429	ND	
Cadmium	ND	ug/L	10		EPA-6010B	12/04/08	12/05/08 10:52	ARD	PE-OP1	1	BRL0429	ND	
Chromium	ND	ug/L	10		EPA-6010B	12/04/08	12/05/08 10:52	ARD	PE-OP1	1	BRL0429	ND	
Cobalt	ND	ug/L	50		EPA-6010B	12/04/08	12/05/08 10:52	ARD	PE-OP1	1	BRL0429	ND	
Copper	ND	ug/L	10		EPA-6010B	12/04/08	12/05/08 10:52	ARD	PE-OP1	1	BRL0429	ND	
Lead	ND	ug/L	50		EPA-6010B	12/04/08	12/05/08 10:52	ARD	PE-OP1	1	BRL0429	ND	
Manganese	ND	ug/L	10		EPA-6010B	12/04/08	12/05/08 10:52	ARD	PE-OP1	1	BRL0429	ND	
Mercury	ND	ug/L	0.20		EPA-7470A	12/09/08	12/10/08 11:37	MEV	CETAC1	1	BRL0716	ND	
Molybdenum	ND	ug/L	50		EPA-6010B	12/04/08	12/05/08 10:52	ARD	PE-OP1	1	BRL0429	ND	
Nickel	ND	ug/L	10		EPA-6010B	12/04/08	12/05/08 10:52	ARD	PE-OP1	1	BRL0429	ND	
Selenium	ND	ug/L	100		EPA-6010B	12/04/08	12/05/08 10:52	ARD	PE-OP1	1	BRL0429	ND	
Silver	ND	ug/L	10		EPA-6010B	12/04/08	12/05/08 10:52	ARD	PE-OP1	1	BRL0429	ND	
Thallium	ND	ug/L	100		EPA-6010B	12/04/08	12/05/08 10:52	ARD	PE-OP1	1	BRL0429	ND	
Vanadium	ND	ug/L	10		EPA-6010B	12/04/08	12/05/08 10:52	ARD	PE-OP1	1	BRL0429	ND	
Zinc	36	ug/L	10		EPA-6010B	12/04/08	12/05/08 10:52	ARD	PE-OP1	1	BRL0429	ND	
Total Antimony	ND	ug/L	100		EPA-6010B	12/05/08	12/08/08 10:01	ARD	PE-OP1	1	BRL0452	ND	
Total Arsenic	ND	ug/L	50		EPA-6010B	12/05/08	12/08/08 10:01	ARD	PE-OP1	1	BRL0452	ND	
Total Barium	320	ug/L	10		EPA-6010B	12/05/08	12/08/08 10:01	ARD	PE-OP1	1	BRL0452	ND	
Total Beryllium	ND	ug/L	10		EPA-6010B	12/05/08	12/08/08 10:01	ARD	PE-OP1	1	BRL0452	ND	

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

Reported: 12/18/2008 10:28

Water Analysis (Metals)

BCL Sample ID:	0815902-03	Client Sample Name: 4186, U-15, 12/3/2008 9:55:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Instrument ID	QC	MB	Lab Quals		
Total Cadmium	ND	ug/L	10	EPA-6010B	12/05/08	12/08/08 10:01	ARD	PE-OP1	1	BRL0452	ND		
Total Chromium	ND	ug/L	10	EPA-6010B	12/05/08	12/08/08 10:01	ARD	PE-OP1	1	BRL0452	ND		
Total Cobalt	ND	ug/L	50	EPA-6010B	12/05/08	12/08/08 10:01	ARD	PE-OP1	1	BRL0452	ND		
Total Copper	12	ug/L	10	EPA-6010B	12/05/08	12/08/08 10:01	ARD	PE-OP1	1	BRL0452	ND		
Total Lead	ND	ug/L	50	EPA-6010B	12/05/08	12/08/08 10:01	ARD	PE-OP1	1	BRL0452	ND		
Total Mercury	ND	ug/L	0.20	EPA-7470A	12/08/08	12/09/08 16:10	MEV	CETAC1	1	BRL0646	ND		
Total Molybdenum	ND	ug/L	50	EPA-6010B	12/05/08	12/08/08 10:01	ARD	PE-OP1	1	BRL0452	ND		
Total Nickel	ND	ug/L	10	EPA-6010B	12/05/08	12/08/08 10:01	ARD	PE-OP1	1	BRL0452	ND		
Total Selenium	ND	ug/L	100	EPA-6010B	12/05/08	12/08/08 10:01	ARD	PE-OP1	1	BRL0452	ND		
Total Silver	ND	ug/L	10	EPA-6010B	12/05/08	12/08/08 10:01	ARD	PE-OP1	1	BRL0452	ND		
Total Thallium	ND	ug/L	100	EPA-6010B	12/05/08	12/08/08 10:01	ARD	PE-OP1	1	BRL0452	ND		
Total Vanadium	ND	ug/L	10	EPA-6010B	12/05/08	12/08/08 10:01	ARD	PE-OP1	1	BRL0452	ND		
Total Zinc	54	ug/L	50	EPA-6010B	12/05/08	12/08/08 10:01	ARD	PE-OP1	1	BRL0452	ND		

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

Reported: 12/18/2008 10:28

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0815902-04	Client Sample Name:	4186, U-12, 12/3/2008 8:08:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	QC Dilution	MB Batch ID	Lab Bias	Quals
Benzene	ND	ug/L	0.50		EPA-8260	12/08/08	12/09/08 06:12	KEA	MS-V12	1	BRL0611	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	12/08/08	12/09/08 06:12	KEA	MS-V12	1	BRL0611	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	12/08/08	12/09/08 06:12	KEA	MS-V12	1	BRL0611	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	12/08/08	12/09/08 06:12	KEA	MS-V12	1	BRL0611	ND	
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	12/08/08	12/09/08 06:12	KEA	MS-V12	1	BRL0611	ND	
Toluene	ND	ug/L	0.50		EPA-8260	12/08/08	12/09/08 06:12	KEA	MS-V12	1	BRL0611	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	12/08/08	12/09/08 06:12	KEA	MS-V12	1	BRL0611	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	12/08/08	12/09/08 06:12	KEA	MS-V12	1	BRL0611	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	12/08/08	12/09/08 06:12	KEA	MS-V12	1	BRL0611	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	12/08/08	12/09/08 06:12	KEA	MS-V12	1	BRL0611	ND	
Ethanol	ND	ug/L	250		EPA-8260	12/08/08	12/09/08 06:12	KEA	MS-V12	1	BRL0611	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	12/08/08	12/09/08 06:12	KEA	MS-V12	1	BRL0611	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	12/08/08	12/09/08 06:12	KEA	MS-V12	1	BRL0611	ND	
1,2-Dichloroethane-d4 (Surrogate)	95.8	%	76 - 114 (LCL - UCL)		EPA-8260	12/08/08	12/09/08 06:12	KEA	MS-V12	1	BRL0611		
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)		EPA-8260	12/08/08	12/09/08 06:12	KEA	MS-V12	1	BRL0611		
4-Bromofluorobenzene (Surrogate)	93.5	%	86 - 115 (LCL - UCL)		EPA-8260	12/08/08	12/09/08 06:12	KEA	MS-V12	1	BRL0611		

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

Reported: 12/18/2008 10:28

Water Analysis (General Chemistry)

BCL Sample ID:	0815902-04	Client Sample Name: 4186, U-12, 12/3/2008 8:08:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Instrument ID	QC	MB	Lab Quals	
Calcium	51	mg/L	0.10		EPA-6010B	12/04/08	12/05/08 10:54	ARD	PE-OP1	1	BRL0429	ND
Magnesium	73	mg/L	0.050		EPA-6010B	12/04/08	12/05/08 10:54	ARD	PE-OP1	1	BRL0429	ND
Sodium	49	mg/L	0.50		EPA-6010B	12/04/08	12/05/08 10:54	ARD	PE-OP1	1	BRL0429	ND
Potassium	2.6	mg/L	1.0		EPA-6010B	12/04/08	12/05/08 10:54	ARD	PE-OP1	1	BRL0429	ND
Chloride	85	mg/L	0.50		EPA-300.0	12/04/08	12/04/08 10:41	VH1	IC1	1	BRL0450	ND
Fluoride	0.14	mg/L	0.050		EPA-300.0	12/04/08	12/04/08 10:41	VH1	IC1	1	BRL0450	ND
Nitrate as NO ₃	28	mg/L	0.44		EPA-300.0	12/04/08	12/04/08 10:41	VH1	IC1	1	BRL0450	ND
Sulfate	59	mg/L	1.0		EPA-300.0	12/04/08	12/04/08 10:41	VH1	IC1	1	BRL0450	ND
Total Dissolved Solids @ 180 C	630	mg/L	33		EPA-160.1	12/08/08	12/08/08 08:10	JLR	MANUAL	3.333	BRL0799	ND

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

Reported: 12/18/2008 10:28

Water Analysis (Metals)

BCL Sample ID:	0815902-04	Client Sample Name:	4186, U-12, 12/3/2008 8:08:00AM									
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Instrument ID	QC	MB	Lab Quals	
Antimony	ND	ug/L	100		EPA-6010B	12/04/08	12/05/08 10:54	ARD	PE-OP1	1	BRL0429	ND
Arsenic	ND	ug/L	50		EPA-6010B	12/04/08	12/05/08 10:54	ARD	PE-OP1	1	BRL0429	ND
Hexavalent Chromium	2.7	ug/L	2.0		EPA-7196	12/04/08	12/04/08 00:03	TDC	KONE-1	1	BRL0588	ND
Barium	330	ug/L	10		EPA-6010B	12/04/08	12/05/08 10:54	ARD	PE-OP1	1	BRL0429	ND
Beryllium	ND	ug/L	10		EPA-6010B	12/04/08	12/05/08 10:54	ARD	PE-OP1	1	BRL0429	ND
Cadmium	ND	ug/L	10		EPA-6010B	12/04/08	12/05/08 10:54	ARD	PE-OP1	1	BRL0429	ND
Chromium	ND	ug/L	10		EPA-6010B	12/04/08	12/05/08 10:54	ARD	PE-OP1	1	BRL0429	ND
Cobalt	ND	ug/L	50		EPA-6010B	12/04/08	12/05/08 10:54	ARD	PE-OP1	1	BRL0429	ND
Copper	ND	ug/L	10		EPA-6010B	12/04/08	12/05/08 10:54	ARD	PE-OP1	1	BRL0429	ND
Lead	ND	ug/L	50		EPA-6010B	12/04/08	12/05/08 10:54	ARD	PE-OP1	1	BRL0429	ND
Manganese	ND	ug/L	10		EPA-6010B	12/04/08	12/05/08 10:54	ARD	PE-OP1	1	BRL0429	ND
Mercury	ND	ug/L	0.20		EPA-7470A	12/09/08	12/10/08 11:53	MEV	CETAC1	1	BRL0716	ND
Molybdenum	ND	ug/L	50		EPA-6010B	12/04/08	12/05/08 10:54	ARD	PE-OP1	1	BRL0429	ND
Nickel	ND	ug/L	10		EPA-6010B	12/04/08	12/05/08 10:54	ARD	PE-OP1	1	BRL0429	ND
Selenium	ND	ug/L	100		EPA-6010B	12/04/08	12/05/08 10:54	ARD	PE-OP1	1	BRL0429	ND
Silver	ND	ug/L	10		EPA-6010B	12/04/08	12/05/08 10:54	ARD	PE-OP1	1	BRL0429	ND
Thallium	ND	ug/L	100		EPA-6010B	12/04/08	12/05/08 10:54	ARD	PE-OP1	1	BRL0429	ND
Vanadium	ND	ug/L	10		EPA-6010B	12/04/08	12/05/08 10:54	ARD	PE-OP1	1	BRL0429	ND
Zinc	26	ug/L	10		EPA-6010B	12/04/08	12/05/08 10:54	ARD	PE-OP1	1	BRL0429	ND
Total Antimony	ND	ug/L	100		EPA-6010B	12/05/08	12/08/08 10:03	ARD	PE-OP1	1	BRL0452	ND
Total Arsenic	ND	ug/L	50		EPA-6010B	12/05/08	12/08/08 10:03	ARD	PE-OP1	1	BRL0452	ND
Total Barium	390	ug/L	10		EPA-6010B	12/05/08	12/08/08 10:03	ARD	PE-OP1	1	BRL0452	ND
Total Beryllium	ND	ug/L	10		EPA-6010B	12/05/08	12/08/08 10:03	ARD	PE-OP1	1	BRL0452	ND

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

Reported: 12/18/2008 10:28

Water Analysis (Metals)

BCL Sample ID:	0815902-04	Client Sample Name: 4186, U-12, 12/3/2008 8:08:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Instrument ID	QC	MB	Lab Quals	
Total Cadmium	ND	ug/L	10		EPA-6010B	12/05/08	12/08/08 10:03	ARD	PE-OP1	1	BRL0452	ND
Total Chromium	11	ug/L	10		EPA-6010B	12/05/08	12/08/08 10:03	ARD	PE-OP1	1	BRL0452	ND
Total Cobalt	ND	ug/L	50		EPA-6010B	12/05/08	12/08/08 10:03	ARD	PE-OP1	1	BRL0452	ND
Total Copper	12	ug/L	10		EPA-6010B	12/05/08	12/08/08 10:03	ARD	PE-OP1	1	BRL0452	ND
Total Lead	ND	ug/L	50		EPA-6010B	12/05/08	12/08/08 10:03	ARD	PE-OP1	1	BRL0452	ND
Total Mercury	ND	ug/L	0.20		EPA-7470A	12/08/08	12/09/08 16:12	MEV	CETAC1	1	BRL0646	ND
Total Molybdenum	ND	ug/L	50		EPA-6010B	12/05/08	12/08/08 10:03	ARD	PE-OP1	1	BRL0452	ND
Total Nickel	24	ug/L	10		EPA-6010B	12/05/08	12/08/08 10:03	ARD	PE-OP1	1	BRL0452	ND
Total Selenium	ND	ug/L	100		EPA-6010B	12/05/08	12/08/08 10:03	ARD	PE-OP1	1	BRL0452	ND
Total Silver	ND	ug/L	10		EPA-6010B	12/05/08	12/08/08 10:03	ARD	PE-OP1	1	BRL0452	ND
Total Thallium	ND	ug/L	100		EPA-6010B	12/05/08	12/08/08 10:03	ARD	PE-OP1	1	BRL0452	ND
Total Vanadium	ND	ug/L	10		EPA-6010B	12/05/08	12/08/08 10:03	ARD	PE-OP1	1	BRL0452	ND
Total Zinc	ND	ug/L	50		EPA-6010B	12/05/08	12/08/08 10:03	ARD	PE-OP1	1	BRL0452	ND

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

Reported: 12/18/2008 10:28

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Spike Result	Spike Added	Units	RPD	Control Limits		
									Percent Recovery	RPD	Percent Recovery Lab Quals
Benzene	BRL0611	Matrix Spike	0814857-64	0	30.770	25.000	ug/L	1.23	123	20	70 - 130
		Matrix Spike Duplicate	0814857-64	0	30.130	25.000	ug/L	1.6	121	20	70 - 130
Toluene	BRL0611	Matrix Spike	0814857-64	0	30.540	25.000	ug/L	0.8	122	20	70 - 130
		Matrix Spike Duplicate	0814857-64	0	30.740	25.000	ug/L	0.8	123	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	BRL0611	Matrix Spike	0814857-64	ND	9.1900	10.000	ug/L	91.9	91.9	20	76 - 114
		Matrix Spike Duplicate	0814857-64	ND	9.2900	10.000	ug/L	92.9	92.9	20	76 - 114
Toluene-d8 (Surrogate)	BRL0611	Matrix Spike	0814857-64	ND	9.9800	10.000	ug/L	99.8	99.8	20	88 - 110
		Matrix Spike Duplicate	0814857-64	ND	10.290	10.000	ug/L	103	103	20	88 - 110
4-Bromofluorobenzene (Surrogate)	BRL0611	Matrix Spike	0814857-64	ND	9.8400	10.000	ug/L	98.4	98.4	20	86 - 115
		Matrix Spike Duplicate	0814857-64	ND	9.9800	10.000	ug/L	99.8	99.8	20	86 - 115

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Project: 4186

Project Number: [none]

Project Manager: Anju Farfan

Reported: 12/18/2008 10:28

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	Control Limits		
									Percent Recovery	RPD	Percent Recovery Lab Quals
Calcium	BRL0429	Duplicate	0815902-01	23.712	23.917		mg/L	0.9	113	20	75 - 125
		Matrix Spike	0815902-01	23.712	35.293	10.204	mg/L				75 - 125
		Matrix Spike Duplicate	0815902-01	23.712	35.640	10.204	mg/L	3.5	117	20	75 - 125
Magnesium	BRL0429	Duplicate	0815902-01	53.015	53.453		mg/L	0.8	128	20	75 - 125
		Matrix Spike	0815902-01	53.015	66.116	10.204	mg/L				A03
		Matrix Spike Duplicate	0815902-01	53.015	66.521	10.204	mg/L	3.1	132	20	75 - 125 A03
Sodium	BRL0429	Duplicate	0815902-01	59.272	60.131		mg/L	1.4	127	20	75 - 125
		Matrix Spike	0815902-01	59.272	72.232	10.204	mg/L				A03
		Matrix Spike Duplicate	0815902-01	59.272	73.072	10.204	mg/L	6.1	135	20	75 - 125 A03
Potassium	BRL0429	Duplicate	0815902-01	8.2668	8.3895		mg/L	1.5	20		
		Matrix Spike	0815902-01	8.2668	18.803	10.204	mg/L		103		75 - 125
		Matrix Spike Duplicate	0815902-01	8.2668	19.006	10.204	mg/L	1.9	105	20	75 - 125
Chloride	BRL0450	Duplicate	0815902-01	95.245	94.924		mg/L	0.3	108	10	80 - 120
		Matrix Spike	0815902-01	95.245	204.70	101.01	mg/L				80 - 120
		Matrix Spike Duplicate	0815902-01	95.245	205.47	101.01	mg/L	0.9	109	10	80 - 120
Fluoride	BRL0450	Duplicate	0815902-01	0.15800	0.15200		mg/L	3.9	112	10	80 - 120
		Matrix Spike	0815902-01	0.15800	1.2939	1.0101	mg/L				80 - 120
		Matrix Spike Duplicate	0815902-01	0.15800	1.3061	1.0101	mg/L	1.8	114	10	80 - 120
Nitrate as NO ₃	BRL0450	Duplicate	0815902-01	25.733	25.516		mg/L	0.8	103	10	80 - 120
		Matrix Spike	0815902-01	25.733	48.775	22.358	mg/L				80 - 120
		Matrix Spike Duplicate	0815902-01	25.733	48.918	22.358	mg/L	1.0	104	10	80 - 120
Sulfate	BRL0450	Duplicate	0815902-01	64.575	64.412		mg/L	0.3	105	10	80 - 120
		Matrix Spike	0815902-01	64.575	171.14	101.01	mg/L				80 - 120
		Matrix Spike Duplicate	0815902-01	64.575	171.39	101.01	mg/L	0.9	106	10	80 - 120
Total Dissolved Solids @ 180 C	BRL0799	Duplicate	0815884-01	935.00	930.00		mg/L	0.5	10		

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

Reported: 12/18/2008 10:28

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
Antimony	BRL0429	Duplicate	0815902-01	14.287	ND		ug/L			20	
		Matrix Spike	0815902-01	14.287	404.73	408.16	ug/L		95.7		75 - 125
		Matrix Spike Duplicate	0815902-01	14.287	438.40	408.16	ug/L	8.3	104	20	75 - 125
Arsenic	BRL0429	Duplicate	0815902-01	16.099	ND		ug/L			20	
		Matrix Spike	0815902-01	16.099	213.49	204.08	ug/L		96.7		75 - 125
		Matrix Spike Duplicate	0815902-01	16.099	217.85	204.08	ug/L	2.2	98.9	20	75 - 125
Barium	BRL0429	Duplicate	0815902-01	111.94	114.65		ug/L	2.4		20	
		Matrix Spike	0815902-01	111.94	531.38	408.16	ug/L		103		75 - 125
		Matrix Spike Duplicate	0815902-01	111.94	536.65	408.16	ug/L	1.0	104	20	75 - 125
Beryllium	BRL0429	Duplicate	0815902-01	-0.072265	ND		ug/L			20	
		Matrix Spike	0815902-01	-0.072265	203.99	204.08	ug/L		100		75 - 125
		Matrix Spike Duplicate	0815902-01	-0.072265	212.93	204.08	ug/L	3.9	104	20	75 - 125
Cadmium	BRL0429	Duplicate	0815902-01	-0.24676	ND		ug/L			20	
		Matrix Spike	0815902-01	-0.24676	207.01	204.08	ug/L		101		75 - 125
		Matrix Spike Duplicate	0815902-01	-0.24676	216.28	204.08	ug/L	4.8	106	20	75 - 125
Chromium	BRL0429	Duplicate	0815902-01	86.142	84.932		ug/L	1.4		20	
		Matrix Spike	0815902-01	86.142	287.33	204.08	ug/L		98.6		75 - 125
		Matrix Spike Duplicate	0815902-01	86.142	301.23	204.08	ug/L	6.3	105	20	75 - 125
Cobalt	BRL0429	Duplicate	0815902-01	-0.48127	ND		ug/L			20	
		Matrix Spike	0815902-01	-0.48127	205.99	204.08	ug/L		101		75 - 125
		Matrix Spike Duplicate	0815902-01	-0.48127	213.96	204.08	ug/L	3.9	105	20	75 - 125
Copper	BRL0429	Duplicate	0815902-01	2.7772	ND		ug/L			20	
		Matrix Spike	0815902-01	2.7772	401.21	408.16	ug/L		97.6		75 - 125
		Matrix Spike Duplicate	0815902-01	2.7772	420.78	408.16	ug/L	4.4	102	20	75 - 125
Lead	BRL0429	Duplicate	0815902-01	5.5713	ND		ug/L			20	
		Matrix Spike	0815902-01	5.5713	413.09	408.16	ug/L		99.8		75 - 125
		Matrix Spike Duplicate	0815902-01	5.5713	429.60	408.16	ug/L	4.1	104	20	75 - 125

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Laboratories, Inc.

Environmental Testing Laboratory Since 1949

TRC
21 Technology Drive
Irvine, CA 92618

Project: 4186

Project Number: [none]

Project Manager: Anju Farfan

Reported: 12/18/2008 10:28

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
Manganese	BRL0429	Duplicate	0815902-01	1.5769	ND		ug/L			20	
		Matrix Spike	0815902-01	1.5769	564.37	510.20	ug/L		110		75 - 125
		Matrix Spike Duplicate	0815902-01	1.5769	586.70	510.20	ug/L	4.4	115	20	75 - 125
Molybdenum	BRL0429	Duplicate	0815902-01	5.8752	ND		ug/L			20	
		Matrix Spike	0815902-01	5.8752	208.35	204.08	ug/L		99.2		75 - 125
		Matrix Spike Duplicate	0815902-01	5.8752	219.67	204.08	ug/L	5.7	105	20	75 - 125
Nickel	BRL0429	Duplicate	0815902-01	0.10505	ND		ug/L			20	
		Matrix Spike	0815902-01	0.10505	420.12	408.16	ug/L		103		75 - 125
		Matrix Spike Duplicate	0815902-01	0.10505	437.35	408.16	ug/L	3.8	107	20	75 - 125
Selenium	BRL0429	Duplicate	0815902-01	-20.683	ND		ug/L			20	
		Matrix Spike	0815902-01	-20.683	187.84	204.08	ug/L		92.0		75 - 125
		Matrix Spike Duplicate	0815902-01	-20.683	186.36	204.08	ug/L	0.8	91.3	20	75 - 125
Silver	BRL0429	Duplicate	0815902-01	0.84469	ND		ug/L			20	
		Matrix Spike	0815902-01	0.84469	96.753	102.04	ug/L		94.0		75 - 125
		Matrix Spike Duplicate	0815902-01	0.84469	100.24	102.04	ug/L	3.6	97.4	20	75 - 125
Thallium	BRL0429	Duplicate	0815902-01	-6.2697	ND		ug/L			20	
		Matrix Spike	0815902-01	-6.2697	424.79	408.16	ug/L		104		75 - 125
		Matrix Spike Duplicate	0815902-01	-6.2697	430.74	408.16	ug/L	1.9	106	20	75 - 125
Vanadium	BRL0429	Duplicate	0815902-01	3.4263	ND		ug/L			20	
		Matrix Spike	0815902-01	3.4263	213.50	204.08	ug/L		103		75 - 125
		Matrix Spike Duplicate	0815902-01	3.4263	222.54	204.08	ug/L	3.8	107	20	75 - 125
Zinc	BRL0429	Duplicate	0815902-01	6.8017	ND		ug/L			20	
		Matrix Spike	0815902-01	6.8017	552.84	510.20	ug/L		107		75 - 125
		Matrix Spike Duplicate	0815902-01	6.8017	576.08	510.20	ug/L	4.6	112	20	75 - 125
Total Antimony	BRL0452	Duplicate	0815651-01	13.760	ND		ug/L			20	
		Matrix Spike	0815651-01	13.760	445.01	400.00	ug/L		108		75 - 125
		Matrix Spike Duplicate	0815651-01	13.760	446.09	400.00	ug/L	0	108	20	75 - 125

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Environmental Testing Laboratory Since 1949

TRC
21 Technology Drive
Irvine, CA 92618

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

Reported: 12/18/2008 10:28

Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Spike Result	Spike Added	Units	RPD	Control Limits		
									Percent Recovery	RPD	Percent Recovery
Total Arsenic	BRL0452	Duplicate	0815651-01	-11.226	ND		ug/L			20	
		Matrix Spike	0815651-01	-11.226	232.62	200.00	ug/L		116		75 - 125
		Matrix Spike Duplicate	0815651-01	-11.226	212.11	200.00	ug/L	9.0	106	20	75 - 125
Total Barium	BRL0452	Duplicate	0815651-01	107.05	105.03		ug/L	1.9		20	
		Matrix Spike	0815651-01	107.05	537.38	400.00	ug/L		108		75 - 125
		Matrix Spike Duplicate	0815651-01	107.05	545.61	400.00	ug/L	1.8	110	20	75 - 125
Total Beryllium	BRL0452	Duplicate	0815651-01	0.0061636	ND		ug/L			20	
		Matrix Spike	0815651-01	0.0061636	217.00	200.00	ug/L		108		75 - 125
		Matrix Spike Duplicate	0815651-01	0.0061636	217.86	200.00	ug/L	0.9	109	20	75 - 125
Total Cadmium	BRL0452	Duplicate	0815651-01	-0.044832	ND		ug/L			20	
		Matrix Spike	0815651-01	-0.044832	212.57	200.00	ug/L		106		75 - 125
		Matrix Spike Duplicate	0815651-01	-0.044832	212.85	200.00	ug/L	0	106	20	75 - 125
Total Chromium	BRL0452	Duplicate	0815651-01	1.2321	ND		ug/L			20	
		Matrix Spike	0815651-01	1.2321	218.36	200.00	ug/L		109		75 - 125
		Matrix Spike Duplicate	0815651-01	1.2321	216.89	200.00	ug/L	0.9	108	20	75 - 125
Total Cobalt	BRL0452	Duplicate	0815651-01	0.15691	ND		ug/L			20	
		Matrix Spike	0815651-01	0.15691	219.81	200.00	ug/L		110		75 - 125
		Matrix Spike Duplicate	0815651-01	0.15691	219.46	200.00	ug/L	0	110	20	75 - 125
Total Copper	BRL0452	Duplicate	0815651-01	11.730	12.384		ug/L	5.4		20	
		Matrix Spike	0815651-01	11.730	422.64	400.00	ug/L		103		75 - 125
		Matrix Spike Duplicate	0815651-01	11.730	433.44	400.00	ug/L	1.9	105	20	75 - 125
Total Lead	BRL0452	Duplicate	0815651-01	14.701	ND		ug/L			20	
		Matrix Spike	0815651-01	14.701	448.93	400.00	ug/L		109		75 - 125
		Matrix Spike Duplicate	0815651-01	14.701	446.85	400.00	ug/L	0.9	108	20	75 - 125
Total Molybdenum	BRL0452	Duplicate	0815651-01	4.1194	ND		ug/L			20	
		Matrix Spike	0815651-01	4.1194	224.14	200.00	ug/L		110		75 - 125
		Matrix Spike Duplicate	0815651-01	4.1194	224.03	200.00	ug/L	0	110	20	75 - 125

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TRC
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Irvine, CA 92618

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

Reported: 12/18/2008 10:28

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 Nickel	BRL0452	Duplicate	0815651-01	2.6510	ND		ug/L			20	
		Matrix Spike	0815651-01	2.6510	454.57	400.00	ug/L		113		75 - 125
		Matrix Spike Duplicate	0815651-01	2.6510	453.10	400.00	ug/L	0	113	20	75 - 125
Total Selenium	BRL0452	Duplicate	0815651-01	-18.190	ND		ug/L			20	
		Matrix Spike	0815651-01	-18.190	186.85	200.00	ug/L		93.4		75 - 125
		Matrix Spike Duplicate	0815651-01	-18.190	177.70	200.00	ug/L	5.0	88.8	20	75 - 125
Total Silver	BRL0452	Duplicate	0815651-01	0.013782	ND		ug/L			20	
		Matrix Spike	0815651-01	0.013782	104.16	100.00	ug/L		104		75 - 125
		Matrix Spike Duplicate	0815651-01	0.013782	105.44	100.00	ug/L	1.0	105	20	75 - 125
Total Thallium	BRL0452	Duplicate	0815651-01	-11.350	ND		ug/L			20	
		Matrix Spike	0815651-01	-11.350	454.15	400.00	ug/L		114		75 - 125
		Matrix Spike Duplicate	0815651-01	-11.350	456.80	400.00	ug/L	0	114	20	75 - 125
Total Vanadium	BRL0452	Duplicate	0815651-01	0.98045	ND		ug/L			20	
		Matrix Spike	0815651-01	0.98045	222.81	200.00	ug/L		111		75 - 125
		Matrix Spike Duplicate	0815651-01	0.98045	222.06	200.00	ug/L	0	111	20	75 - 125
Total Zinc	BRL0452	Duplicate	0815651-01	35.463	ND		ug/L			20	
		Matrix Spike	0815651-01	35.463	608.12	500.00	ug/L		115		75 - 125
		Matrix Spike Duplicate	0815651-01	35.463	597.59	500.00	ug/L	2.6	112	20	75 - 125
Hexavalent Chromium	BRL0588	Duplicate	0815902-01	84.897	85.003		ug/L	0.1		10	
		Matrix Spike	0815902-01	84.897	136.31	52.632	ug/L		97.7		85 - 115
		Matrix Spike Duplicate	0815902-01	84.897	137.01	52.632	ug/L	1.3	99.0	10	85 - 115
Hexavalent Chromium	BRL0591	Duplicate	0815902-02	3.0250	3.0960		ug/L	2.3		10	
		Matrix Spike	0815902-02	3.0250	53.964	52.632	ug/L		96.8		85 - 115
		Matrix Spike Duplicate	0815902-02	3.0250	53.887	52.632	ug/L	0.2	96.6	10	85 - 115
Total Mercury	BRL0646	Duplicate	0815794-01	0.065000	ND		ug/L			20	A02
		Matrix Spike	0815794-01	0.065000	1.0150	1.0000	ug/L		95.0		70 - 130
		Matrix Spike Duplicate	0815794-01	0.065000	1.0275	1.0000	ug/L	1.3	96.2	20	70 - 130

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TRC
21 Technology Drive
Irvine, CA 92618

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

Reported: 12/18/2008 10:28

Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source	Source	Spike	Percent Recovery	Control Limits			
			Sample ID	Result	Result		RPD	RPD	Percent Recovery	Lab Quals
Mercury	BRL0716	Duplicate	0815902-03	-0.010000	ND	99.8	0.8	20	70 - 130	
		Matrix Spike	0815902-03	-0.010000	0.99750	1.0000	ug/L			
		Matrix Spike Duplicate	0815902-03	-0.010000	0.99000	1.0000	ug/L	20	70 - 130	

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Project: 4186

Project Number: [none]

Project Manager: Anju Farfan

Reported: 12/18/2008 10:28

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	Control Limits				
								Percent Recovery	RPD	Percent Recovery	RPD	Lab Quals
Benzene	BRL0611	BRL0611-BS1	LCS	25.760	25.000	0.50	ug/L	103		70 - 130		
Toluene	BRL0611	BRL0611-BS1	LCS	25.650	25.000	0.50	ug/L	103		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BRL0611	BRL0611-BS1	LCS	9.5200	10.000		ug/L	95.2		76 - 114		
Toluene-d8 (Surrogate)	BRL0611	BRL0611-BS1	LCS	9.9700	10.000		ug/L	99.7		88 - 110		
4-Bromofluorobenzene (Surrogate)	BRL0611	BRL0611-BS1	LCS	9.3200	10.000		ug/L	93.2		86 - 115		

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Project: 4186

Project Number: [none]

Project Manager: Anju Farfan

Reported: 12/18/2008 10:28

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	Control Limits		
									RPD	Percent Recovery	RPD
Calcium	BRL0429	BRL0429-BS1	LCS	9.9009	10.000	0.10	mg/L	99.0		85 - 115	
Magnesium	BRL0429	BRL0429-BS1	LCS	10.052	10.000	0.050	mg/L	101		85 - 115	
Sodium	BRL0429	BRL0429-BS1	LCS	10.043	10.000	0.50	mg/L	100		85 - 115	
Potassium	BRL0429	BRL0429-BS1	LCS	9.7857	10.000	1.0	mg/L	97.9		85 - 115	
Chloride	BRL0450	BRL0450-BS1	LCS	103.32	100.00	0.50	mg/L	103		90 - 110	
Fluoride	BRL0450	BRL0450-BS1	LCS	0.99200	1.0000	0.050	mg/L	99.2		90 - 110	
Nitrate as NO ₃	BRL0450	BRL0450-BS1	LCS	22.147	22.134	0.44	mg/L	100		90 - 110	
Sulfate	BRL0450	BRL0450-BS1	LCS	101.10	100.00	1.0	mg/L	101		90 - 110	
Total Dissolved Solids @ 180 C	BRL0799	BRL0799-BS1	LCS	540.00	586.00	50	mg/L	92.2		90 - 110	

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

Reported: 12/18/2008 10:28

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		
									RPD	Percent Recovery	RPD
Antimony	BRL0429	BRL0429-BS1	LCS	356.75	400.00	100	ug/L	89.2		85 - 115	
Arsenic	BRL0429	BRL0429-BS1	LCS	190.15	200.00	50	ug/L	95.1		85 - 115	
Barium	BRL0429	BRL0429-BS1	LCS	396.51	400.00	10	ug/L	99.1		85 - 115	
Beryllium	BRL0429	BRL0429-BS1	LCS	192.36	200.00	10	ug/L	96.2		85 - 115	
Cadmium	BRL0429	BRL0429-BS1	LCS	196.21	200.00	10	ug/L	98.1		85 - 115	
Chromium	BRL0429	BRL0429-BS1	LCS	191.78	200.00	10	ug/L	95.9		85 - 115	
Cobalt	BRL0429	BRL0429-BS1	LCS	201.94	200.00	50	ug/L	101		85 - 115	
Copper	BRL0429	BRL0429-BS1	LCS	373.33	400.00	10	ug/L	93.3		85 - 115	
Lead	BRL0429	BRL0429-BS1	LCS	395.61	400.00	50	ug/L	98.9		85 - 115	
Manganese	BRL0429	BRL0429-BS1	LCS	574.60	500.00	10	ug/L	115		85 - 115	
Molybdenum	BRL0429	BRL0429-BS1	LCS	190.43	200.00	50	ug/L	95.2		85 - 115	
Nickel	BRL0429	BRL0429-BS1	LCS	418.22	400.00	10	ug/L	105		85 - 115	
Selenium	BRL0429	BRL0429-BS1	LCS	173.66	200.00	100	ug/L	86.8		85 - 115	
Silver	BRL0429	BRL0429-BS1	LCS	93.429	100.00	10	ug/L	93.4		85 - 115	
Thallium	BRL0429	BRL0429-BS1	LCS	408.91	400.00	100	ug/L	102		85 - 115	
Vanadium	BRL0429	BRL0429-BS1	LCS	195.07	200.00	10	ug/L	97.5		85 - 115	
Zinc	BRL0429	BRL0429-BS1	LCS	522.79	500.00	10	ug/L	105		85 - 115	
Total Antimony	BRL0452	BRL0452-BS1	LCS	372.69	400.00	100	ug/L	93.2		85 - 115	
Total Arsenic	BRL0452	BRL0452-BS1	LCS	213.73	200.00	50	ug/L	107		85 - 115	
Total Barium	BRL0452	BRL0452-BS1	LCS	406.37	400.00	10	ug/L	102		85 - 115	
Total Beryllium	BRL0452	BRL0452-BS1	LCS	200.47	200.00	10	ug/L	100		85 - 115	
Total Cadmium	BRL0452	BRL0452-BS1	LCS	205.25	200.00	10	ug/L	103		85 - 115	
Total Chromium	BRL0452	BRL0452-BS1	LCS	200.96	200.00	10	ug/L	100		85 - 115	

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Water Analysis (Metals)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Control Limits				
								Percent Recovery	RPD	Percent Recovery	RPD	Lab Quals
Total Cobalt	BRL0452	BRL0452-BS1	LCS	211.29	200.00	50	ug/L	106		85 - 115		
Total Copper	BRL0452	BRL0452-BS1	LCS	388.60	400.00	10	ug/L	97.2		85 - 115		
Total Lead	BRL0452	BRL0452-BS1	LCS	418.20	400.00	50	ug/L	105		85 - 115		
Total Molybdenum	BRL0452	BRL0452-BS1	LCS	203.07	200.00	50	ug/L	102		85 - 115		
Total Nickel	BRL0452	BRL0452-BS1	LCS	436.78	400.00	10	ug/L	109		85 - 115		
Total Selenium	BRL0452	BRL0452-BS1	LCS	189.53	200.00	100	ug/L	94.8		85 - 115		
Total Silver	BRL0452	BRL0452-BS1	LCS	100.45	100.00	10	ug/L	100		85 - 115		
Total Thallium	BRL0452	BRL0452-BS1	LCS	452.75	400.00	100	ug/L	113		85 - 115		
Total Vanadium	BRL0452	BRL0452-BS1	LCS	205.61	200.00	10	ug/L	103		85 - 115		
Total Zinc	BRL0452	BRL0452-BS1	LCS	543.25	500.00	50	ug/L	109		85 - 115		
Hexavalent Chromium	BRL0588	BRL0588-BS1	LCS	47.472	50.000	2.0	ug/L	94.9		85 - 115		
Hexavalent Chromium	BRL0591	BRL0591-BS1	LCS	50.170	50.000	2.0	ug/L	100		85 - 115		
Total Mercury	BRL0646	BRL0646-BS1	LCS	0.98250	1.0000	0.20	ug/L	98.2		85 - 115		
Mercury	BRL0716	BRL0716-BS1	LCS	0.98000	1.0000	0.20	ug/L	98.0		85 - 115		

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Laboratories, Inc.

Environmental Testing Laboratory Since 1949

TRC
21 Technology Drive
Irvine, CA 92618

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

Reported: 12/18/2008 10:28

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	BRL0611	BRL0611-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BRL0611	BRL0611-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BRL0611	BRL0611-BLK1	ND	ug/L	0.50		
Ethylbenzene	BRL0611	BRL0611-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BRL0611	BRL0611-BLK1	ND	ug/L	0.50		
Toluene	BRL0611	BRL0611-BLK1	ND	ug/L	0.50		
Total Xylenes	BRL0611	BRL0611-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BRL0611	BRL0611-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BRL0611	BRL0611-BLK1	ND	ug/L	10		
Diisopropyl ether	BRL0611	BRL0611-BLK1	ND	ug/L	0.50		
Ethanol	BRL0611	BRL0611-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BRL0611	BRL0611-BLK1	ND	ug/L	0.50		
Total Purgeable Petroleum Hydrocarbons	BRL0611	BRL0611-BLK1	ND	ug/L	50		
1,2-Dichloroethane-d4 (Surrogate)	BRL0611	BRL0611-BLK1	91.5	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BRL0611	BRL0611-BLK1	99.1	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BRL0611	BRL0611-BLK1	94.9	%	86 - 115 (LCL - UCL)		

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

Reported: 12/18/2008 10:28

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Calcium	BRL0429	BRL0429-BLK1	ND	mg/L	0.10		
Magnesium	BRL0429	BRL0429-BLK1	ND	mg/L	0.050		
Sodium	BRL0429	BRL0429-BLK1	ND	mg/L	0.50		
Potassium	BRL0429	BRL0429-BLK1	ND	mg/L	1.0		
Chloride	BRL0450	BRL0450-BLK1	ND	mg/L	0.50		
Fluoride	BRL0450	BRL0450-BLK1	ND	mg/L	0.050		
Nitrate as NO ₃	BRL0450	BRL0450-BLK1	ND	mg/L	0.44		
Sulfate	BRL0450	BRL0450-BLK1	ND	mg/L	1.0		
Total Dissolved Solids @ 180 C	BRL0799	BRL0799-BLK1	ND	mg/L	6.7		

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Irvine, CA 92618

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

Reported: 12/18/2008 10:28

Water Analysis (Metals)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Antimony	BRL0429	BRL0429-BLK1	ND	ug/L	100		
Arsenic	BRL0429	BRL0429-BLK1	ND	ug/L	50		
Barium	BRL0429	BRL0429-BLK1	ND	ug/L	10		
Beryllium	BRL0429	BRL0429-BLK1	ND	ug/L	10		
Cadmium	BRL0429	BRL0429-BLK1	ND	ug/L	10		
Chromium	BRL0429	BRL0429-BLK1	ND	ug/L	10		
Cobalt	BRL0429	BRL0429-BLK1	ND	ug/L	50		
Copper	BRL0429	BRL0429-BLK1	ND	ug/L	10		
Lead	BRL0429	BRL0429-BLK1	ND	ug/L	50		
Manganese	BRL0429	BRL0429-BLK1	ND	ug/L	10		
Molybdenum	BRL0429	BRL0429-BLK1	ND	ug/L	50		
Nickel	BRL0429	BRL0429-BLK1	ND	ug/L	10		
Selenium	BRL0429	BRL0429-BLK1	ND	ug/L	100		
Silver	BRL0429	BRL0429-BLK1	ND	ug/L	10		
Thallium	BRL0429	BRL0429-BLK1	ND	ug/L	100		
Vanadium	BRL0429	BRL0429-BLK1	ND	ug/L	10		
Zinc	BRL0429	BRL0429-BLK1	ND	ug/L	10		
Total Antimony	BRL0452	BRL0452-BLK1	ND	ug/L	100		
Total Arsenic	BRL0452	BRL0452-BLK1	ND	ug/L	50		
Total Barium	BRL0452	BRL0452-BLK1	ND	ug/L	10		
Total Beryllium	BRL0452	BRL0452-BLK1	ND	ug/L	10		
Total Cadmium	BRL0452	BRL0452-BLK1	ND	ug/L	10		
Total Chromium	BRL0452	BRL0452-BLK1	ND	ug/L	10		
Total Cobalt	BRL0452	BRL0452-BLK1	ND	ug/L	50		

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

Reported: 12/18/2008 10:28

Water Analysis (Metals)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab-Quals
Total Copper	BRL0452	BRL0452-BLK1	ND	ug/L	10		
Total Lead	BRL0452	BRL0452-BLK1	ND	ug/L	50		
Total Molybdenum	BRL0452	BRL0452-BLK1	ND	ug/L	50		
Total Nickel	BRL0452	BRL0452-BLK1	ND	ug/L	10		
Total Selenium	BRL0452	BRL0452-BLK1	ND	ug/L	100		
Total Silver	BRL0452	BRL0452-BLK1	ND	ug/L	10		
Total Thallium	BRL0452	BRL0452-BLK1	ND	ug/L	100		
Total Vanadium	BRL0452	BRL0452-BLK1	ND	ug/L	10		
Total Zinc	BRL0452	BRL0452-BLK1	ND	ug/L	50		
Hexavalent Chromium	BRL0588	BRL0588-BLK1	ND	ug/L	2.0		
Hexavalent Chromium	BRL0591	BRL0591-BLK1	ND	ug/L	2.0		
Total Mercury	BRL0646	BRL0646-BLK1	ND	ug/L	0.20		
Mercury	BRL0716	BRL0716-BLK1	ND	ug/L	0.20		

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Project: 4186
Project Number: [none]
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Reported: 12/18/2008 10:28

Notes And Definitions

MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A02	The difference between duplicate readings is less than the PQL.
A03	The sample concentration is more than 4 times the spike level.

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Submission #: 08-15902

SHIPPING INFORMATION

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

SHIPPING CONTAINER

Ice Chest Box
 None Other (Specify)

Refrigerant: Ice Blue Ice None Other Comments:

Custody Seals: Ice Chest Container Intact Yes No
 Container Intact Yes No

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

COC Received
 YES NO

Emissivity: 98 Container: B112 Thermometer ID: TH163

Date/Time: 12/30/08

Temperature: A 1.5 °C / C 1.7 °C

Analyst Init: MZ

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						
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PTA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	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 801SM										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:

Sample Numbering Completed By: JDW

Date/Time: 12/30/08 2330

[H:\DOCS\WP80\LAB_DOCS\FORMS\AMREC2.WPD]

A = Actual / C = Corrected

BC LABORATORIES, INC.

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

CHAIN OF CUSTODY

				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	TPH GAS by 8015M	TPH DIESEL by 8015	8260 full list w/ oxygenates		ETHANOL by 8260B, EDIB/EDC by 8260B	TPH -G by GC/MS, Hexavalent Chromium	TDS, dissolved CAM 17 metals, sodium, dissolved calcium, dissolved magnesium, dissolved manganese, chloride, sulfate	Total CAM 17 metals, nitrate, fluoride	Turnaround Time Requested
Address: 1771 First Street		21 Technology Drive Irvine, CA 92618-2302 Attn: Anju Farfan									X	X	X	STD
City: Livermore		4-digit site#: 4186 Workorder # 01237-4509118462												
State: CA Zip:		Project #: 154771												
Conoco Phillips Mgr: Terry Grayson		Sampler Name: Andrew Vidlers												
Lab#	Sample Description	Field Point Name			Date & Time Sampled									
-1	V-13			12/03/08 0847	GW									
-2	V-14			0923										
-3	V-15			0955										
-4	V-12			0808										
CHK BY		DISTRIBUTION		X SHORT HOLDING TIME										
<i>[Signature]</i>		<i>[Signature]</i>		(Cr ⁺⁶) NO ₂ NO ₃ OP SS	DO Cl ₂ BOD MBAS COT									
Comments:				Relinquished by: (Signature)				Received by: <i>Pete Dickey</i>				Date & Time 12/3/08 1042		
GLOBAL ID: T0600101777				Relinquished by: (Signature) <i>Pete Dickey 12/3/08</i>				Received by: <i>Pete Dickey</i>				Date & Time 12/3/08 1945		
				Relinquished by: (Signature) <i>Pete Dickey 12/3/08 2250</i>				Received by: <i>J. Orwoll</i>				Date & Time 12/3/08 2250		

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.