

**RECEIVED**

10:20 am, May 15, 2009

Alameda County  
Environmental Health

The logo for ConocoPhillips, featuring the word "ConocoPhillips" in a bold, sans-serif font. A small checkmark symbol is positioned above the letter "o" in "Phillips".

76 Broadway  
Sacramento, California 95818

October 27, 2008

Paresh C. Khatri  
Alameda County Health Agency  
1131 Harbor Bay parkway, Suite250  
Alameda, California 94502-577

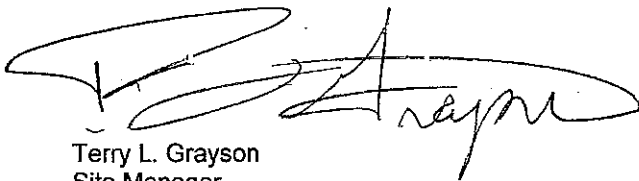
Re: ***Semi-Annual Summary Report—Second Quarter through Third Quarter 2008 &  
No Further Action (NFA) Approval Request  
76 Service Station # 7176 RO # 0000482  
7850 Amador Valley Blvd.  
Dublin, CA***

Dear Mr. Khatri:

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". The signature is stylized and written in a cursive-like font.

Terry L. Grayson  
Site Manager  
Risk Management & Remediation

October 28, 2008

Mr. Paresh Khatri  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502

**Re: Semi-Annual Summary Report – Second Quarter  
2008 through Third Quarter 2008  
Fuel leak Case No. R00000482**



Dear Mr. Khatri:

On behalf of ConocoPhillips Company (COP), Delta Consultants (Delta) is submitting the Semi-Annual Summary Report – Second Quarter 2008 through Third Quarter 2008 and forwarding a copy of TRC Solutions, Inc. (TRC's) *Semi-Annual Monitoring Report, April 2008 through September 2008*, dated October 8, 2008, for the following location:

**Service Station**

**Location**

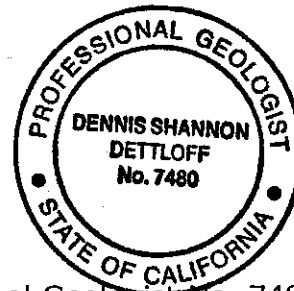
76 Service Station No. 7176

7850 Amador Valley Boulevard  
Dublin, California

Sincerely,  
**Delta Consultants**

A handwritten signature in black ink that reads "Dennis S. Dettloff".

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



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

**SEMI-ANNUAL SUMMARY REPORT**  
**Second Quarter 2008 through Third Quarter 2008**  
**76 Service Station No. 7176**  
**7850 Amador Valley Road**  
**Dublin, California**

**PREVIOUS ASSESSMENT**

November 1994 - Unocal Corporation (Unocal) replaced the fuel underground storage tanks (USTs), removed the used-oil UST and associated product piping, and removed the oil/water separator. No holes or signs of leakage were observed in the fuel USTs, however, eight holes up to 0.5-inches in diameter were observed in the used oil UST.

October 1995 - Six soil borings (B1 through B6) and three on-site monitor wells (U1 through U3) were installed.

March 1998 - Tosco Marketing Company (Tosco, now ConocoPhillips) conducted an off-site soil and groundwater investigation that included the installation of two off-site groundwater monitoring wells (MW4 and MW5).

August 2000 - A *Request and Work Plan for Case Closure* was submitted that presented results of a groundwater receptor survey, risk-based corrective action Tier II analysis and requested environmental closure. No active groundwater production wells were positively identified within the survey radius during the agency and field groundwater receptor surveys.

June 2001 - The *Addendum to Request and Work Plan for Case Closure* was completed.

November 2004 - Four soil borings (SB-1 through SB-4) were advanced. The site data is documented in the December 10, 2004 *Limited Phase II Environmental Site Assessment* report. Based on the report of findings, residual concentrations of total petroleum hydrocarbons as diesel (TPHd) (7.1 mg/kg) were reported in the vicinity of SB-3. Dissolved hydrocarbon concentrations were reported in each soil boring with the exception of SB-4. Maximum concentrations were reported as follows: TPHd [1,100 micrograms per liter ( $\mu\text{g/L}$ ) in SB-1], total petroleum hydrocarbons as gasoline (TPHg) (9,700  $\mu\text{g/L}$  in SB-3) and methyl tertiary butyl ether (MTBE) (3.0  $\mu\text{g/L}$  in SB-1). Benzene was not reported above the laboratories indicated reporting limit of 2.5  $\mu\text{g/L}$ .

January 2005 - ATC became the new site lead consultant.

September 2005 - Site environmental consulting responsibilities were transferred to Delta Consultants.

**SENSITIVE RECEPTORS**

July 2007 - Delta conducted a sensitive receptor survey to identify all water supply wells within a one-mile radius of the site and sensitive receptors within 1,000 feet from the site. Using the DWR well logs, a total of 28 water supply wells were identified as being within a one-mile radius of the subject site. The closest down-gradient well is a cathodic protection well located approximately 0.8 miles southeast of the site. The

closest water supply well is a domestic well located approximately 0.4 miles southwest of the site. No water bodies, schools, daycare centers, hospitals, or churches acting as a potential school or daycare facilities were identified within the survey area. Site Locator Sensitive Receptor Map is included as Attachment A.

## **GROUNDWATER MONITORING AND SAMPLING**

This site is monitored and sampled on a semi-annual basis. Samples collected from the monitoring wells are analyzed for TPHd by Environmental Protection Agency (EPA) Method 8015M, total purgeable petroleum hydrocarbons (TPPH), benzene, toluene, ethyl-benzene, and total xylenes (BTEX), and MTBE, di-isopropyl ether (DIPE), tertiary butyl alcohol (TBA), tertiary amyl methyl ether (TAME), ethyl tertiary butyl ether (ETBE), 1,2-dichloroethane (1,2-DCA), ethylene dibromide (EDB) and ethanol by EPA Method 8260. TRC has been retained to perform the monitoring and sampling. A copy of TRC's *Semi-Annual Monitoring Report – April through September 2008*, October 8, 2008, and has been forwarded with this report.

During the most recent groundwater monitoring and sampling event, conducted on September 2, 2008, depth to groundwater ranged from 16.97 feet (U-1) to 19.32 feet (U-3) below top of casing (TOC). The groundwater flow direction was interpreted to be to the southeast with a gradient of 0.004 foot per foot (ft/ft). Historic groundwater flow directions are shown on a rose diagram presented as Attachment B. Monitoring well MW-5 was not monitored or sampled; it is reported as paved over.

### **Contaminants of Concern:**

- **TPPH:** TPPH was above the laboratory's indicated reporting limit the groundwater samples collected and submitted for analysis from monitoring wells MW-4, U-1, and U-2 at concentrations of 380 µg/L, 3,300 µg/L, and 1,500 µg/L, respectively during the current event.
- **Benzene:** Benzene was below the laboratory's indicated reporting limits in each of the groundwater samples collected and submitted for analysis from the monitoring wells during the current event.
- **MTBE:** MTBE was above the laboratory's indicated reporting limit the groundwater samples collected and submitted for analysis from monitoring wells MW-4 and U-2 at concentrations of 0.70 µg/L and 0.80 µg/L, respectively during the current event.

In addition, Ethyl-benzene was above the laboratory's indicated reporting limit in the groundwater samples collected and submitted for analysis from monitoring wells U-1 and U-2 at concentrations of 1.4 µg/L and 0.73 µg/L, respectively during the current event. TPHd was above the laboratory's indicated reporting limit in the groundwater samples collected and submitted for analysis from monitoring wells MW-4, U-1, and U-2 at concentrations of 51 µg/L, 960 µg/L, and 300 µg/L, respectively during the current event. All other constituents were below the laboratory's indicated reporting limits in each of the groundwater samples collected and submitted for analysis from the monitoring wells during the September 2008 monitoring and sampling event.

## **REMEDIATION STATUS**

Approximately 5,000 gallons of groundwater were removed from the fuel UST excavation during the 1994 UST replacement activities. A total of 15,511 gallons of groundwater have been removed historically from the site through periodic groundwater purging of the UST cavity. Approximately 1,863 tons of hydrocarbon-impacted soil were excavated and removed from the site during the 1994 UST replacement activities.

Active remediation is currently not being conducted at the site.

## **CHARACTERIZATION STATUS**

Petroleum hydrocarbon concentrations in the groundwater are limited to an area surrounding the UST cavity and dispenser islands.

Contaminants of concern benzene and MTBE are not present above State of California drinking water standards. Analytical data collected during the most recent groundwater monitoring and sampling event indicate that MTBE concentrations in the groundwater are below the Secondary Maximum Contaminant Level (MCL) of 5.0 µg/L. Benzene concentrations are below the laboratory's indicated reporting limit.

Based on the data collected during groundwater monitoring and sampling activities at the site it appears that TPHg and TPHd concentrations in the groundwater are stable or decreasing.

In addition, the groundwater gradient at the site is, on average, 0.005 ft/ft. This is relatively flat and indicates that the petroleum hydrocarbon plume is not likely to migrate far off-site.

## **REQUEST FOR CLOSURE REVIEW**

Based on the summary of analytical data, on April 25, 2008 Delta requested to Mr. Barney Chan that the site be evaluated for No Further Action. To further support a finding of low-risk and closure applicability, Delta has completed an updated sensitive receptor survey (SRS) for this site dated July 24, 2007 (the last SRS was conducted in August of 2000).

The findings of the SRS indicated that no sensitive receptors present are at risk due to remaining petroleum hydrocarbons beneath the site, site closure is requested to be approved.

## **RECENT CORRESPONDENCE**

No recent correspondence was documented during this reporting period.

## **SECOND QUARTER 2008 THROUGH THIRD QUARTER 2008 ACTIVITIES**

1. TRC conducted the semi-annual monitoring and sampling event at the site.

**WASTE DISPOSAL SUMMARY**

No waste was disposed of from the site during this reporting period.

**FOURTH QUARTER 2008 THROUGH FIRST QUARTER 2009)**

- 1. Due to the recent results and request for No Further Action we are asking not to have to conduct and incur cost involved with TRC for semi-annual monitoring and to receive approval for closure prior to the next sample date planned in March 2009.**

**CONSULTANT:** Delta Consultants

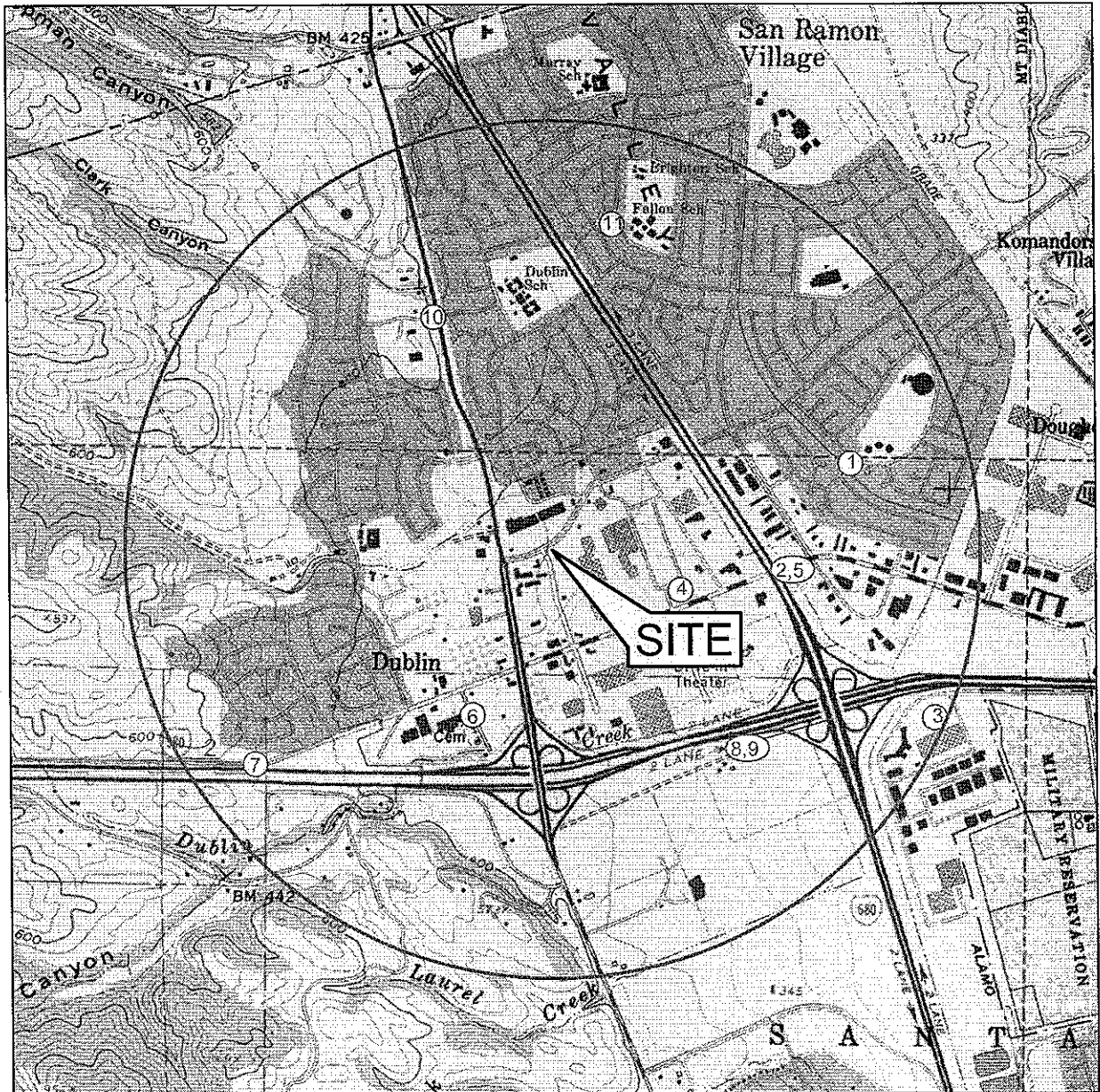
Attachments

Attachment A – Site Locator Sensitive Receptor Map

Attachment B – Historic Groundwater Flow Directions

**Attachment A**

***Site Locator Sensitive Receptor Map***



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

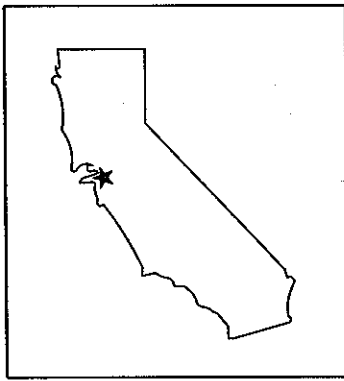


FIGURE 2  
SITE LOCATOR SENSITIVE RECEPTOR  
MAP  
76 STATION NO. 7176  
7850 AMADOR VALLEY BOULEVARD  
DUBLIN, CALIFORNIA

PROJECT NO. C107-176	DRAWN BY JH 12/12/06
FILE NO. Site Locator 7176	PREPARED BY JH
REVISION NO.	REVIEWED BY

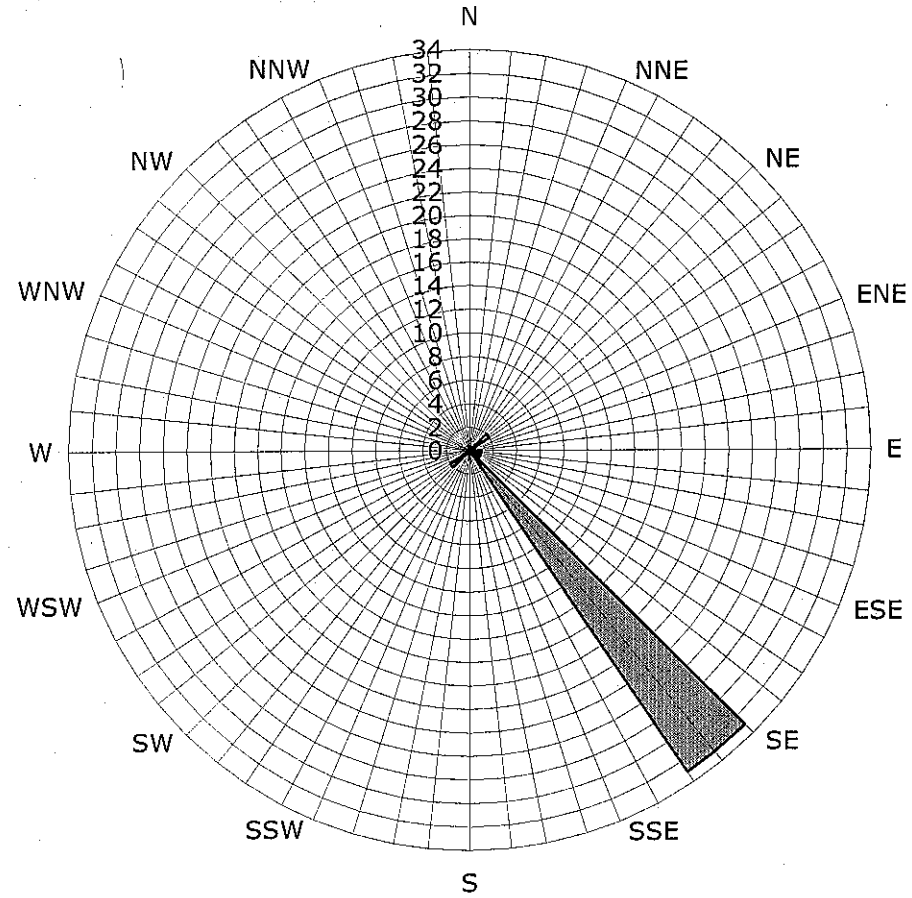
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP, DUBLIN QUADRANGLE, 1967



**Attachment B**

***Historic Groundwater Flow Directions***

**Historic Groundwater Flow Directions**  
**ConocoPhillips Site No. 7176**  
7850 Amador Valley Boulevard  
Dublin, California



**Legend**  
Concentric circles represent  
quarterly monitoring events  
Fourth Quarter 1995  
through Third Quarter 2008  
39 data points shown

■ Groundwater Flow Direction



21 Technology Drive  
Irvine, CA 92618

949.727.9336 PHONE  
949.727.7399 FAX

www.TRCSolutions.com

DATE: October 8, 2008

TO: ConocoPhillips Company  
76 Broadway  
Sacramento, CA 95818

ATTN: MR. TERRY GRAYSON

SITE: 76 STATION 7176  
7850 AMADOR VALLEY BLVD.  
DUBLIN, CALIFORNIA

RE: SEMI-ANNUAL MONITORING REPORT  
APRIL THROUGH SEPTEMBER 2008

Dear Mr. Grayson:

Please find enclosed our Semi-Annual Monitoring Report for 76 Station 7176, located at 7850 Amador Valley Blvd., Dublin, California. If you have any questions regarding this report, please call us at (949) 727-9336.

Sincerely,

TRC

A handwritten signature in black ink, appearing to read "Anju Farfan", written over a circular stamp or mark.

Anju Farfan  
Groundwater Program Operations Manager

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

Enclosures  
20-0400/7176R10.QMS

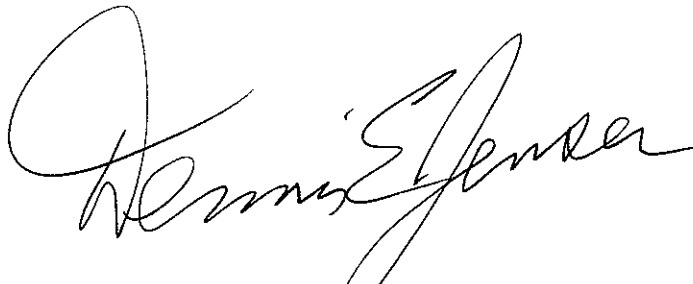
**SEMI-ANNUAL MONITORING REPORT  
APRIL THROUGH SEPTEMBER 2008**

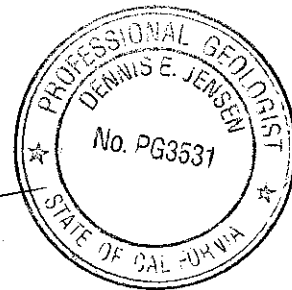
76 STATION 7176  
7850 Amador Valley Blvd.  
Dublin, California

Prepared For:

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

By:

  
Senior Project Geologist, Irvine Operations  
Date: 10/8/08



### LIST OF ATTACHMENTS

Summary Sheet	Summary of Gauging and Sampling Activities
Tables	Table Key Contents of Tables Table 1: Current Fluid Levels and Selected Analytical Results Table 1a: Additional Current Analytical Results Table 2: Historic Fluid Levels and Selected Analytical Results Table 2a: Additional Historic Analytical Results
Figures	Figure 1: Vicinity Map Figure 2: Groundwater Elevation Contour Map Figure 3: Dissolved-Phase TPH-G (GC/MS) Concentration Map Figure 4: Dissolved-Phase Benzene Concentration Map Figure 5: Dissolved-Phase MTBE Concentration Map Figure 6: Dissolved-Phase TPH-D Concentration Map
Graphs	Groundwater Elevations vs. Time Benzene Concentrations vs. Time MTBE Concentrations vs. Time
Field Activities	General Field Procedures Field Monitoring Data Sheet – 09/02/08 Groundwater Sampling Field Notes – 09/02/08 Statement of Non-Completion – 09/02/08
Laboratory Reports	Official Laboratory Reports Quality Control Reports Chain of Custody Records
Statements	Purge Water Disposal Limitations

**Summary of Gauging and Sampling Activities**  
**April 2008 through September 2008**  
**76 Station 7176**  
**7850 Amador Valley Boulevard**  
**Dublin, CA**

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

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

Date(s) of Gauging/Sampling Event: **09/02/08**

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**Sample Points**

Groundwater wells: **3 onsite, 2 offsite**      Points gauged: **4**      Points sampled: **4**  
Purging method: **Bailer/submersible pump**  
Purge water disposal: **Veolia/Rodeo Unit 100**  
Other Sample Points: **0**      Type: **--**

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**Liquid Phase Hydrocarbons (LPH)**

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

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**Hydrogeologic Parameters**

Depth to groundwater (below TOC):      Minimum: **16.97 feet**      Maximum: **19.32 feet**  
Average groundwater elevation (relative to available local datum): **338.67 feet**  
Average change in groundwater elevation since previous event: **-2.72 feet**  
Interpreted groundwater gradient and flow direction:  
    Current event: **0.004 ft/ft, southeast**  
    Previous event: **0.003 ft/ft, southeast (02/01/08)**

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**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** **3**      Maximum: **3,300 µg/l (U-1)**  
Sample Points with **MTBE 8260B** **2**      Maximum: **0.8 µg/l (U-2)**

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**Notes:**

MW-5=Paved over

# TABLES

## TABLE KEY

### STANDARD ABBREVIATIONS

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

### ANALYTES

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

### NOTES

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

### REFERENCE

TRC began groundwater monitoring and sampling for site 76 Station 7176 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 7176**

**Current Event**

Table 1	Well/ Date	Depth to Water	LPH Thickness	Ground- water Elevation	Change in Elevation	TPH-D	TPH-G (8015M)	TPH-G (GC/MS)	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE (8021B)
Table 1a	Well/ Date	TBA	Ethanol (8260B)	Ethylene- dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME					

**Historic Data**

Table 2	Well/ Date	Depth to Water	LPH Thickness	Ground- water Elevation	Change in Elevation	TPH-D	TPH-G (8015M)	TPH-G (GC/MS)	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE (8021B)
Table 2a	Well/ Date	TBA	Ethanol (8260B)	Ethylene- dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME					

**Table 1**  
**CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**September 2, 2008**  
**76 Station 7176**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-D (µg/l)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
			<b>(Screen Interval in feet: 10.0-25.0)</b>												
MW-4 09/02/08	356.41	17.97	0.00	338.44	-2.71	51	--	380	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.70	
			<b>(Screen Interval in feet: 10.0-25.0)</b>												
MW-5 09/02/08	355.03	--	--	--	--	--	--	--	--	--	--	--	--	--	Paved over
			<b>(Screen Interval in feet: 10.0-30.0)</b>												
U-1 09/02/08	355.59	16.97	0.00	338.62	-2.69	960	--	3300	ND<1.0	ND<1.0	1.4	ND<2.0	--	ND<1.0	
			<b>(Screen Interval in feet: 10.0-30.0)</b>												
U-2 09/02/08	356.55	17.71	0.00	338.84	-2.69	300	--	1500	ND<0.50	ND<0.50	0.73	ND<1.0	--	0.80	
			<b>(Screen Interval in feet: 10.0-30.0)</b>												
U-3 09/02/08	358.09	19.32	0.00	338.77	-2.80	ND<50	--	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 7176**

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)
<b>MW-4</b>							
09/02/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
<b>U-1</b>							
09/02/08	ND<20	ND<500	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
<b>U-2</b>							
09/02/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
<b>U-3</b>							
09/02/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**July 1995 Through September 2008**  
**76 Station 7176**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-D (µg/l)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
			<b>(Screen Interval in feet: 10.0-25.0)</b>												
MW-4															
04/23/98	356.41	12.11	0.00	344.30	--	--	2500	--	5.9	6.4	16	31	ND	--	
07/08/98	356.41	13.70	0.00	342.71	-1.59	1400	1000	--	ND	ND	ND	ND	ND	--	
10/05/98	356.41	15.18	0.00	341.23	-1.48	--	890	--	ND	ND	ND	14	ND	--	
01/04/99	356.41	16.39	0.00	340.02	-1.21	71	230	--	0.56	1.3	1.4	1.8	10	--	
D 01/04/99	356.41	16.39	0.00	340.02	-1.21	71	--	--	--	--	--	--	--	--	
04/05/99	356.41	14.61	0.00	341.80	1.78	340	620	--	ND	1.8	2.1	ND	6	9.3	
D 04/05/99	356.41	14.61	0.00	341.80	1.78	210	--	--	--	--	--	--	--	--	
07/01/99	356.41	15.43	0.00	340.98	-0.82	260	700	--	2.1	ND	1.9	2.4	ND	21	
D 07/01/99	356.41	15.43	0.00	340.98	-0.82	310	--	--	--	--	--	--	--	--	
09/30/99	356.41	16.27	0.00	340.14	-0.84	420	582	--	2.6	1.30	1.98	ND	23.1	22.5	
D 09/30/99	356.41	16.27	0.00	340.14	-0.84	220	--	--	--	--	--	--	--	--	
01/03/00	356.41	17.50	0.00	338.91	-1.23	250	800	--	4.2	4.6	3.3	11	31	17	
D 01/03/00	356.41	17.50	0.00	338.91	-1.23	260	--	--	--	--	--	--	--	--	
04/04/00	356.41	13.91	0.00	342.50	3.59	460	710	--	2	1.3	4.4	2.0	21	22	
D 04/04/00	356.41	13.91	0.00	342.50	3.59	340	--	--	--	--	--	--	--	--	
07/14/00	356.41	15.58	0.00	340.83	-1.67	220	490	--	0.89	1.3	0.85	1.8	21	12	
D 07/14/00	356.41	15.58	0.00	340.83	-1.67	76	--	--	--	--	--	--	--	--	
10/27/00	356.41	16.96	0.00	339.45	-1.38	160	598	--	ND	1.56	4.65	ND	15.4	14	
D 10/27/00	356.41	16.96	0.00	339.45	-1.38	120	--	--	--	--	--	--	--	--	
01/08/01	356.41	16.64	0.00	339.77	0.32	--	522	--	4.09	1.69	2.53	1.26	17.2	14.3	
04/03/01	356.41	15.46	0.00	340.95	1.18	180	575	--	ND	ND	ND	ND	14.0	11.6	
D 04/03/01	356.41	15.46	0.00	340.95	1.18	ND	--	--	--	--	--	--	--	--	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**July 1995 Through September 2008**  
**76 Station 7176**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-D (µg/l)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments	
<b>MW-4 continued</b>																
	07/06/01	356.41	16.63	0.00	339.78	-1.17	230	720	--	4.7	1.5	2.5	0.74	10	7.1	
D	07/06/01	356.41	16.63	0.00	339.78	-1.17	200	--	--	--	--	--	--	--	--	
	10/05/01	356.41	17.38	0.00	339.03	-0.75	180	650	--	4.3	1.2	1.1	1.8	5.9	5.4	
D	10/05/01	356.41	17.38	0.00	339.03	-0.75	140	--	--	--	--	--	--	--	--	
	01/03/02	356.41	15.10	0.00	341.31	2.28	390	340	--	2.9	1.4	1.7	ND<1.0	ND<10/	3.1	
D	01/03/02	356.41	15.10	0.00	341.31	2.28	360	--	--	--	--	--	--	--	--	
	04/01/02	356.41	14.85	0.00	341.56	0.25	160	340	--	ND<0.50	2.7	ND<0.50	0.66	ND<5.0	2.2	
D	04/01/02	356.41	14.85	0.00	341.56	0.25	100	--	--	--	--	--	--	--	--	
	07/01/02	356.41	15.53	0.00	340.88	-0.68	130	--	280	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.58	
D	07/01/02	356.41	15.53	0.00	340.88	-0.68	97	--	--	--	--	--	--	--	--	
	01/24/03	356.41	14.52	0.00	341.89	1.01	52	--	170	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
D	01/24/03	356.41	14.52	0.00	341.89	1.01	ND<50	--	--	--	--	--	--	--	--	
	07/28/03	356.41	15.47	0.00	340.94	-0.95	110	--	380	ND<0.50	ND<0.50	ND<0.50	ND<1	ND<2	ND<2	
D	07/28/03	356.41	15.47	0.00	340.94	-0.95	130	--	--	--	--	--	--	--	--	
	02/04/04	356.41	15.55	0.00	340.86	-0.08	94	--	270	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
	07/02/04	356.41	16.52	0.00	339.89	-0.97	ND<200	--	170	ND<0.5	ND<0.5	ND<0.5	ND<1	--	0.83	
	01/11/05	356.41	14.83	0.00	341.58	1.69	110	--	460	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.87	
D	01/11/05	356.41	14.83	0.00	341.58	1.69	85	--	--	--	--	--	--	--	--	
	07/08/05	356.41	14.33	0.00	342.08	0.50	67	--	120	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.60	
D	07/08/05	356.41	14.33	0.00	342.08	0.50	67	--	--	--	--	--	--	--	--	
	01/06/06	356.41	15.59	0.00	340.82	-1.26	ND<200	--	130	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.3	
	09/11/06	356.41	16.16	0.00	340.25	-0.57	ND<50	--	110	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	1.0	
	02/16/07	356.41	16.39	0.00	340.02	-0.23	66	--	210	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	1.0	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**July 1995 Through September 2008**  
**76 Station 7176**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-D (µg/l)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>MW-4 continued</b>															
07/03/07	356.41	16.60	0.00	339.81	-0.21	ND<56	--	160	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	0.71	
02/01/08	356.41	15.26	0.00	341.15	1.34	66	--	91	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
09/02/08	356.41	17.97	0.00	338.44	-2.71	51	--	380	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.70	
<b>MW-5 (Screen Interval in feet: 10.0-25.0)</b>															
04/23/98	355.03	11.15	0.00	343.88	--	--	120	--	0.53	0.90	1.0	3.8	13	--	
07/08/98	355.03	12.63	0.00	342.40	-1.48	170	ND	--	ND	ND	ND	ND	12	--	
10/05/98	355.03	14.00	0.00	341.03	-1.37	--	ND	--	ND	ND	ND	ND	12	--	
01/04/99	355.03	15.21	0.00	339.82	-1.21	ND	ND	--	ND	ND	ND	ND	ND	--	
04/05/99	355.03	13.76	0.00	341.27	1.45	ND	ND	--	ND	ND	ND	ND	ND	ND	
07/01/99	355.03	14.48	0.00	340.55	-0.72	ND	ND	--	ND	ND	ND	ND	ND	2.3	
09/30/99	355.03	15.15	0.00	339.88	-0.67	60.4	50.8	--	ND	ND	ND	ND	ND	ND	
D 09/30/99	355.03	15.15	0.00	339.88	-0.67	ND	--	--	--	--	--	--	--	--	
01/03/00	355.03	16.34	0.00	338.69	-1.19	ND	ND	--	ND	ND	ND	ND	ND	ND	
04/04/00	355.03	12.90	0.00	342.13	3.44	69	ND	--	ND	ND	ND	ND	ND	ND	
D 04/04/00	355.03	12.90	0.00	342.13	3.44	ND	--	--	--	--	--	--	--	--	
07/14/00	355.03	14.48	0.00	340.55	-1.58	ND	ND	--	ND	ND	ND	ND	ND	ND	
10/27/00	355.03	15.75	0.00	339.28	-1.27	ND	ND	--	ND	ND	ND	ND	ND	ND	
01/08/01	355.03	15.25	0.00	339.78	0.50	--	ND	--	ND	ND	ND	ND	ND	ND	
04/03/01	355.03	14.41	0.00	340.62	0.84	ND	ND	--	ND	ND	ND	ND	ND	ND	
07/06/01	355.03	15.52	0.00	339.51	-1.11	ND	ND	--	ND	ND	ND	ND	ND	ND	
10/05/01	355.03	16.28	0.00	338.75	-0.76	ND<50	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<2.0	
01/03/02	355.03	14.01	0.00	341.02	2.27	ND<51	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	1.6	
04/01/02	355.03	13.64	0.00	341.39	0.37	ND<50	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	3.5	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**July 1995 Through September 2008**  
**76 Station 7176**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-D (µg/l)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>MW-5 continued</b>															
07/01/02	355.03	14.51	0.00	340.52	-0.87	ND<60	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.3	
01/24/03	355.03	13.53	0.00	341.50	0.98	ND<50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	4.3	
07/28/03	355.03	14.40	0.00	340.63	-0.87	ND<50	--	ND<50	ND<0.50	ND<0.50	ND0.50	ND<1.0	--	3.4	
02/04/04	355.03	14.41	0.00	340.62	-0.01	ND<50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.6	
07/02/04	355.03	15.41	0.00	339.62	-1.00	ND<200	--	80	ND<0.5	ND<0.5	ND<0.5	ND<1	--	2.0	
01/11/05	355.03	13.74	0.00	341.29	1.67	ND<50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.64	
07/08/05	355.03	13.24	0.00	341.79	0.50	220	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
D 07/08/05	355.03	13.24	0.00	341.79	0.50	ND<50	--	--	--	--	--	--	--	--	
01/06/06	355.03	14.33	0.00	340.70	-1.09	ND<200	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
09/11/06	355.03	14.91	0.00	340.12	-0.58	ND<50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
02/16/07	355.03	15.13	0.00	339.90	-0.22	ND<56	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
07/03/07	355.03	--	--	--	--	--	--	--	--	--	--	--	--	--	Paved over
02/01/08	355.03	--	--	--	--	--	--	--	--	--	--	--	--	--	Paved over
09/02/08	355.03	--	--	--	--	--	--	--	--	--	--	--	--	--	Paved over
<b>U-1 (Screen Interval in feet: 10.0-30.0)</b>															
07/08/95	355.62	12.59	0.00	343.03	--	9400	39000	--	1500	19	1600	5200	--	--	
10/12/95	355.62	15.38	0.00	340.24	-2.79	4200	33000	--	1400	ND	1400	3100	--	--	
01/11/96	355.62	16.33	0.00	339.29	-0.95	8200	8300	--	690	11	680	1500	--	--	
04/11/96	355.62	12.20	0.00	343.42	4.13	5630	3200	--	110	ND	180	290	790	--	
07/10/96	355.62	13.84	0.00	341.78	-1.64	2200	2600	--	81	4.4	210	230	510	--	
10/30/96	355.62	15.85	0.00	339.77	-2.01	560	2200	--	67	19	140	150	360	--	
01/27/97	355.62	12.20	0.00	343.42	3.65	2300	4600	--	98	ND	360	290	150	--	
04/08/97	355.62	13.46	0.00	342.16	-1.26	1300	2800	--	50	ND	220	140	ND	--	



**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**July 1995 Through September 2008**  
**76 Station 7176**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground- water Elevation (feet)	Change in Elevation (feet)	TPH-D (µg/l)	TPH-G	TPH-G	Benzene (µg/l)	Toluene (µg/l)	Ethyl- benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
							(8015M) (µg/l)	(GC/MS) (µg/l)							
<b>U-1 continued</b>															
07/17/97	355.62	15.30	0.00	340.32	-1.84	460	2300	--	30	4.5	140	94	190	--	
10/17/97	355.62	16.33	0.00	339.29	-1.03	510	1500	--	31	6.7	110	88	220	--	
01/19/98	355.62	14.34	0.00	341.28	1.99	1900	3100	--	46	3.4	310	200	170	--	
D 01/19/98	355.62	14.34	0.00	341.28	1.99	1300	--	--	--	--	--	--	--	--	
04/23/98	355.59	11.16	0.00	344.43	3.15	--	3400	--	72	3.8	470	350	280	--	
07/08/98	355.59	12.67	0.00	342.92	-1.51	2000	4500	--	51	ND	590	430	190	--	
10/05/98	355.59	14.57	0.00	341.02	-1.90	--	7500	--	53	ND	680	350	190	180	
01/04/99	355.59	15.35	0.00	340.24	-0.78	2700	10000	--	ND	ND	1200	540	--	ND	
D 01/04/99	355.59	15.35	0.00	340.24	-0.78	2500	--	--	--	--	--	--	--	--	
04/05/99	355.59	13.64	0.00	341.95	1.71	920	4900	--	34	ND	350	150	150	55	
D 04/05/99	355.59	13.64	0.00	341.95	1.71	570	--	--	--	--	--	--	--	--	
07/01/99	355.59	14.39	0.00	341.20	-0.75	2700	10000	--	45	ND	850	420	260	110	
D 07/01/99	355.59	14.39	0.00	341.20	-0.75	3600	--	--	--	--	--	--	--	--	
09/30/99	355.59	15.32	0.00	340.27	-0.93	2360	7150	--	ND	ND	415	84.4	ND	195	
D 09/30/99	355.59	15.32	0.00	340.27	-0.93	1680	--	--	--	--	--	--	--	--	
01/03/00	355.59	16.51	0.00	339.08	-1.19	2000	5400	--	28	8.4	180	33	160	120	
D 01/03/00	355.59	16.51	0.00	339.08	-1.19	1700	--	--	--	--	--	--	--	--	
04/04/00	355.59	12.89	0.00	342.70	3.62	990	4800	--	30	ND	210	93	170	160	
D 04/04/00	355.59	12.89	0.00	342.70	3.62	1400	--	--	--	--	--	--	--	--	
07/14/00	355.59	14.56	0.00	341.03	-1.67	2800	6200	--	41	16	170	32	170	120	
D 07/14/00	355.59	14.56	0.00	341.03	-1.67	1200	--	--	--	--	--	--	--	--	
10/27/00	355.59	15.96	0.00	339.63	-1.40	1400	3830	--	16.8	ND	68.6	7.99	55.2	38	
D 10/27/00	355.59	15.96	0.00	339.63	-1.40	1300	--	--	--	--	--	--	--	--	



**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**July 1995 Through September 2008**  
**76 Station 7176**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-D (µg/l)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments	
<b>U-1 continued</b>																
	01/08/01	355.59	15.72	0.00	339.87	0.24	--	2410	--	14.7	4.30	30.5	5.04	34.5	9.33	
	04/03/01	355.59	14.46	0.00	341.13	1.26	1500	3330	--	15.8	5.96	74.8	7.06	ND	13.3	
D	04/03/01	355.59	14.46	0.00	341.13	1.26	830	--	--	--	--	--	--	--	--	
	07/06/01	355.59	15.65	0.00	339.94	-1.19	1600	4300	--	23	6.4	57	6.8	58	36	
D	07/06/01	355.59	15.65	0.00	339.94	-1.19	1200	--	--	--	--	--	--	--	--	
	10/05/01	355.59	16.45	0.00	339.14	-0.80	2500	3800	--	19	ND<5.0	19	ND<5.0	64	36	
D	10/05/01	355.59	16.45	0.00	339.14	-0.80	2300	--	--	--	--	--	--	--	--	
	01/03/02	355.59	14.18	0.00	341.41	2.27	2200	4500	--	25	ND<10	24	ND<10	ND<100	23	
D	01/03/02	355.59	14.18	0.00	341.41	2.27	2200	--	--	--	--	--	--	--	--	
	04/01/02	355.59	13.72	0.00	341.87	0.46	1800	5300	--	36	6.7	48	12	93	59	
D	04/01/02	355.59	13.72	0.00	341.87	0.46	1200	--	--	--	--	--	--	--	--	
	07/01/02	355.59	14.61	0.00	340.98	-0.89	2100	--	3900	ND<0.50	ND<0.50	ND<0.50	3.9	--	23	
D	07/01/02	355.59	14.61	0.00	340.98	-0.89	2100	--	--	--	--	--	--	--	--	
	01/24/03	355.59	13.82	0.00	341.77	0.79	2100	--	3400	ND<2.5	ND<2.5	37	ND<5.0	--	21	
D	01/24/03	355.59	13.82	0.00	341.77	0.79	1700	--	--	--	--	--	--	--	--	
	07/28/03	355.59	14.51	0.00	341.08	-0.69	2100	--	7100	ND<2.5	ND<2.5	12	ND<5	13	13	
D	07/28/03	355.59	14.51	0.00	341.08	-0.69	1200	--	--	--	--	--	--	--	--	
	02/04/04	355.59	14.66	0.00	340.93	-0.15	1300	--	4000	ND<0.50	ND<0.50	13	ND<1.0	--	9.6	
	07/02/04	355.59	16.57	0.00	339.02	-1.91	400	--	2600	0.56	ND<0.5	5.3	ND<1	--	5.4	
	01/11/05	355.59	13.91	0.00	341.68	2.66	2000	--	5000	0.59	ND<0.50	7.8	ND<1.0	--	4.2	
D	01/11/05	355.59	13.91	0.00	341.68	2.66	1500	--	--	--	--	--	--	--	--	
	07/08/05	355.59	13.26	0.00	342.33	0.65	1300	--	3100	ND<0.50	ND<0.50	4.3	ND<1.0	--	2.2	
	01/06/06	355.59	14.64	0.00	340.95	-1.38	1200	--	2200	ND<0.50	ND<0.50	3.1	ND<1.0	--	2.8	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**July 1995 Through September 2008**  
**76 Station 7176**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-D (µg/l)	TPH-G	TPH-G	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
							(8015M) (µg/l)	(GC/MS) (µg/l)							
<b>U-1 continued</b>															
09/11/06	355.59	15.11	0.00	340.48	-0.47	1200	--	2700	ND<0.50	ND<0.50	2.0	0.79	--	1.6	
02/16/07	355.59	15.38	0.00	340.21	-0.27	2000	--	3700	ND<0.50	ND<0.50	3.1	0.81	--	2.4	
07/03/07	355.59	15.60	0.00	339.99	-0.22	950	--	2300	ND<0.50	ND<0.50	1.6	0.74	--	0.89	
D 07/03/07	355.59	15.60	0.00	339.99	-0.22	890	--	--	--	--	--	--	--	--	
02/01/08	355.59	14.28	0.00	341.31	1.32	1100	--	3100	0.88	ND<0.50	1.6	ND<1.0	--	ND<0.50	
09/02/08	355.59	16.97	0.00	338.62	-2.69	960	--	3300	ND<1.0	ND<1.0	1.4	ND<2.0	--	ND<1.0	
<b>U-2 (Screen Interval in feet: 10.0-30.0)</b>															
07/08/95	356.59	12.68	0.00	343.91	--	4700	17000	--	430	ND	2200	590	--	--	
10/12/95	356.59	16.01	0.00	340.58	-3.33	3600	24000	--	310	60	1900	190	--	--	
01/11/96	356.59	17.06	0.00	339.53	-1.05	8600	10000	--	210	55	1400	240	--	--	
04/11/96	356.59	12.75	0.00	343.84	4.31	1900	7700	--	130	27	1100	110	340	--	
07/10/96	356.59	14.42	0.00	342.17	-1.67	2300	5600	--	59	15	610	42	250	--	
10/30/96	356.59	16.82	0.00	339.77	-2.40	1800	7700	--	67	35	1000	54	260	--	
01/27/97	356.59	12.91	0.00	343.68	3.91	660	1600	--	14	ND	130	7.0	100	--	
04/08/97	356.59	14.07	0.00	342.52	-1.16	2000	4300	--	35	ND	400	16	ND	--	
07/17/97	356.59	15.96	0.00	340.63	-1.89	1300	6200	--	17	22	410	ND	130	--	
10/17/97	356.59	17.03	0.00	339.56	-1.07	1400	7100	--	71	26	520	50	ND	--	
01/19/98	356.59	15.10	0.00	341.49	1.93	2100	5300	--	46	11	350	16	110	--	
D 01/19/98	356.59	15.10	0.00	341.49	1.93	1500	--	--	--	--	--	--	--	--	
04/23/98	356.55	11.74	0.00	344.81	3.32	--	3200	--	23	11	210	38	160	--	
07/08/98	356.55	13.27	0.00	343.28	-1.53	1100	1600	--	34	8.5	100	7.4	190	--	
10/05/98	356.55	14.90	0.00	341.65	-1.63	--	2900	--	37	8.4	110	7.3	78	--	
01/04/99	356.55	15.94	0.00	340.61	-1.04	670	2200	--	35	ND	17	ND	86	--	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**July 1995 Through September 2008**  
**76 Station 7176**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground- water Elevation (feet)	Change in Elevation (feet)	TPH-D (µg/l)	TPH-G	TPH-G	Benzene (µg/l)	Toluene (µg/l)	Ethyl- benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
							(8015M) (µg/l)	(GC/MS) (µg/l)							
D	<b>U-2 continued</b>														
D 01/04/99	356.55	15.94	0.00	340.61	-1.04	250	--	--	--	--	--	--	--	--	
04/05/99	356.55	14.19	0.00	342.36	1.75	660	4900	--	21	77	130	310	100	6.9	
D 04/05/99	356.55	14.19	0.00	342.36	1.75	490	--	--	--	--	--	--	--	--	
07/01/99	356.55	14.98	0.00	341.57	-0.79	210	1500	--	7.6	ND	ND	ND	ND	35	
D 07/01/99	356.55	14.98	0.00	341.57	-0.79	440	--	--	--	--	--	--	--	--	
09/30/99	356.55	16.00	0.00	340.55	-1.02	483	256	--	1.85	ND	2.42	ND	26.3	29.8	
D 09/30/99	356.55	16.00	0.00	340.55	-1.02	340	--	--	--	--	--	--	--	--	
01/03/00	356.55	17.20	0.00	339.35	-1.20	2400	3400	--	23	13	ND	44	46	14	
D 01/03/00	356.55	17.20	0.00	339.35	-1.20	1900	--	--	--	--	--	--	--	--	
04/04/00	356.55	13.50	0.00	343.05	3.70	1000	3600	--	34	17	56	ND	59	25	
D 04/04/00	356.55	13.50	0.00	343.05	3.70	1000	--	--	--	--	--	--	--	--	
07/14/00	356.55	15.23	0.00	341.32	-1.73	1000	3100	--	16	13	15	10	100	19	
D 07/14/00	356.55	15.23	0.00	341.32	-1.73	350	--	--	--	--	--	--	--	--	
10/27/00	356.55	16.74	0.00	339.81	-1.51	2000	4180	--	30.4	10.2	14.6	ND	55.5	15	
D 10/27/00	356.55	16.74	0.00	339.81	-1.51	1900	--	--	--	--	--	--	--	--	
01/08/01	356.55	16.68	0.00	339.87	0.06	--	3300	--	33.5	7.32	3.49	ND	66.7	7.49	
04/03/01	356.55	15.12	0.00	341.43	1.56	1500	4290	--	32.4	9.91	20.1	ND	66.6	18.1	
D 04/03/01	356.55	15.12	0.00	341.43	1.56	830	--	--	--	--	--	--	--	--	
07/06/01	356.55	16.32	0.00	340.23	-1.20	1400	4700	--	35	11	12	5.3	62	19	
D 07/06/01	356.55	16.32	0.00	340.23	-1.20	1100	--	--	--	--	--	--	--	--	
10/05/01	356.55	17.15	0.00	339.40	-0.83	3200	3600	--	31	9.6	8.7	6.9	62	13	
D 10/05/01	356.55	17.15	0.00	339.40	-0.83	1900	--	--	--	--	--	--	--	--	
01/03/02	356.55	14.90	0.00	341.65	2.25	2300	4600	--	34	11	15	5.8	62	7.5	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**July 1995 Through September 2008**  
**76 Station 7176**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-D (µg/l)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>D U-2 continued</b>															
D 01/03/02	356.55	14.90	0.00	341.65	2.25	2100	--	--	--	--	--	--	--	--	
04/01/02	356.55	14.38	0.00	342.17	0.52	1400	3500	--	38	9.3	10	6.5	87	18	
D 04/01/02	356.55	14.38	0.00	342.17	0.52	470	--	--	--	--	--	--	--	--	
07/01/02	356.55	15.24	0.00	341.31	-0.86	ND<50	--	4500	ND<0.50	ND<0.50	5.0	1.7	--	ND<0.50	
01/24/03	356.55	14.31	0.00	342.24	0.93	860	--	2300	1.1	1.5	6.9	2.4	--	5.9	
D 01/24/03	356.55	14.31	0.00	342.24	0.93	570	--	--	--	--	--	--	--	--	
07/28/03	356.55	15.18	0.00	341.37	-0.87	1300	--	5600	ND<2.5	ND<2.5	3.4	ND<5	ND<10	ND<10	
D 07/28/03	356.55	15.18	0.00	341.37	-0.87	710	--	--	--	--	--	--	--	--	
02/04/04	356.55	15.36	0.00	341.19	-0.18	1300	--	4400	ND<5.0	ND<5.0	7.0	ND<10	--	ND<20	
07/02/04	356.55	16.28	0.00	340.27	-0.92	380	--	5700	1.4	2.8	6.6	5.5	--	6.6	
01/11/05	356.55	14.59	0.00	341.96	1.69	1800	--	5800	0.99	2.5	5.4	5.1	--	ND<5.0	
D 01/11/05	356.55	14.59	0.00	341.96	1.69	1100	--	--	--	--	--	--	--	--	
07/08/05	356.55	13.97	0.00	342.58	0.62	1100	--	3000	0.56	1.9	3.0	3.2	--	5.0	
D 07/08/05	356.55	13.97	0.00	342.58	0.62	960	--	--	--	--	--	--	--	--	
01/06/06	356.55	15.30	0.00	341.25	-1.33	1100	--	1600	ND<0.50	ND<0.50	0.97	ND<1.0	--	2.1	
09/11/06	356.55	15.62	0.00	340.93	-0.32	790	--	2300	ND<0.50	ND<0.50	1.0	1.0	--	2.7	
02/16/07	356.55	16.01	0.00	340.54	-0.39	200	--	1500	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	1.2	
07/03/07	356.55	16.27	0.00	340.28	-0.26	540	--	1400	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	1.5	
D 07/03/07	356.55	16.27	0.00	340.28	-0.26	530	--	--	--	--	--	--	--	--	
02/01/08	356.55	15.02	0.00	341.53	1.25	340	--	830	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.1	
09/02/08	356.55	17.71	0.00	338.84	-2.69	300	--	1500	ND<0.50	ND<0.50	0.73	ND<1.0	--	0.80	
<b>U-3 (Screen Interval in feet: 10.0-30.0)</b>															
07/08/95	358.13	14.58	0.00	343.55	--	710	1100	--	0.57	2.1	1.7	2.4	--	--	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**July 1995 Through September 2008**  
**76 Station 7176**

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground- water Elevation	Change in Elevation											Comments
						TPH-D (µg/l)	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)		
<b>U-3 continued</b>																
10/12/95	358.13	17.60	0.00	340.53	-3.02	470	560	--	ND	0.87	0.7	1.1	--	--		
01/11/96	358.13	18.65	0.00	339.48	-1.05	260	230	--	0.62	0.91	0.97	1.9	--	--		
04/11/96	358.13	13.20	0.00	344.93	5.45	ND	68	--	ND	ND	ND	ND	ND	--		
07/10/96	358.13	15.98	0.00	342.15	-2.78	ND	ND	--	ND	ND	ND	ND	ND	--		
10/30/96	358.13	18.24	0.00	339.89	-2.26	ND	70	--	ND	ND	ND	ND	ND	--		
01/27/97	358.13	14.41	0.00	343.72	3.83	ND	ND	--	ND	ND	ND	ND	ND	--		
04/08/97	358.13	15.73	0.00	342.40	-1.32	ND	ND	--	ND	ND	ND	ND	ND	--		
07/17/97	358.13	17.54	0.00	340.59	-1.81	ND	ND	--	ND	ND	ND	ND	ND	--		
10/17/97	358.13	18.64	0.00	339.49	-1.10	63	ND	--	ND	ND	ND	ND	ND	--		
01/19/98	358.13	16.67	0.00	341.46	1.97	68	ND	--	ND	ND	ND	ND	ND	--		
D 01/19/98	358.13	16.67	0.00	341.46	1.97	ND	--	--	--	--	--	--	--	--		
04/23/98	358.09	13.28	0.00	344.81	3.35	--	ND	--	ND	ND	ND	ND	ND	--		
07/08/98	358.09	14.90	0.00	343.19	-1.62	80	ND	--	ND	ND	ND	ND	ND	--		
10/05/98	358.09	16.50	0.00	341.59	-1.60	--	ND	--	ND	ND	ND	ND	ND	--		
01/04/99	358.09	17.70	0.00	340.39	-1.20	ND	ND	--	ND	ND	ND	ND	ND	--		
04/05/99	358.09	15.67	0.00	342.42	2.03	ND	ND	--	ND	ND	ND	ND	ND	ND		
07/01/99	358.09	16.79	0.00	341.30	-1.12	ND	ND	--	ND	ND	ND	ND	ND	ND		
09/30/99	358.09	17.60	0.00	340.49	-0.81	ND	ND	--	ND	ND	ND	ND	ND	ND		
01/03/00	358.09	18.86	0.00	339.23	-1.26	ND	ND	--	ND	ND	ND	ND	ND	ND		
04/04/00	358.09	15.10	0.00	342.99	3.76	ND	ND	--	ND	ND	ND	ND	ND	ND		
07/14/00	358.09	16.85	0.00	341.24	-1.75	ND	ND	--	ND	ND	ND	ND	ND	ND		
10/27/00	358.09	18.35	0.00	339.74	-1.50	ND	ND	--	ND	ND	ND	ND	ND	ND		
01/08/01	358.09	18.31	0.00	339.78	0.04	--	ND	--	ND	ND	ND	ND	ND	ND		

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**July 1995 Through September 2008**  
**76 Station 7176**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)											Comments
						TPH-D (µg/l)	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)		
<b>U-3 continued</b>																
04/03/01	358.09	16.70	0.00	341.39	1.61	ND	ND	--	ND	ND	ND	ND	ND	ND		
07/06/01	358.09	17.90	0.00	340.19	-1.20	ND	ND	--	ND	ND	ND	ND	ND	ND		
10/05/01	358.09	18.71	0.00	339.38	-0.81	ND<50	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<2.0		
01/03/02	358.09	16.41	0.00	341.68	2.30	ND<52	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<1.0		
04/01/02	358.09	15.87	0.00	342.22	0.54	ND<50	ND<50	--	ND<0.50	1.1	ND<0.50	1.2	ND<5.0	ND<2.0		
07/01/02	358.09	16.77	0.00	341.32	-0.90	1500	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50		
01/24/03	358.09	15.75	0.00	342.34	1.02	ND<50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	ND<2.019		
07/28/03	358.09	16.74	0.00	341.35	-0.99	ND<50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1	ND<2	ND<2		
02/04/04	358.09	16.87	0.00	341.22	-0.13	90	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0		
07/02/04	358.09	17.87	0.00	340.22	-1.00	ND<200	--	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	--	ND<0.5		
01/11/05	358.09	16.10	0.00	341.99	1.77	ND<50	--	52	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50		
07/08/05	358.09	15.57	0.00	342.52	0.53	ND<50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50		
01/06/06	358.09	16.94	0.00	341.15	-1.37	ND<200	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50		
09/11/06	358.09	17.49	0.00	340.60	-0.55	ND<50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50		
02/16/07	358.09	17.71	0.00	340.38	-0.22	ND<50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50		
07/03/07	358.09	17.91	0.00	340.18	-0.20	ND<50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50		
02/01/08	358.09	16.52	0.00	341.57	1.39	ND<50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50		
09/02/08	358.09	19.32	0.00	338.77	-2.80	ND<50	--	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 7176**

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)
<b>MW-4</b>							
04/05/99	ND	ND	ND	ND	ND	ND	ND
07/01/99	ND	ND	ND	ND	ND	ND	ND
09/30/99	ND	ND	ND	ND	ND	ND	ND
01/03/00	ND	ND	ND	ND	ND	ND	ND
04/04/00	ND	ND	ND	ND	ND	ND	ND
07/14/00	ND	ND	ND	ND	ND	ND	ND
10/27/00	ND	ND	ND	ND	ND	ND	ND
01/08/01	ND	ND	ND	ND	ND	ND	ND
04/03/01	ND	ND	ND	ND	ND	ND	ND
07/06/01	ND	ND	ND	ND	ND	ND	ND
10/05/01	ND<100	ND<1000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
01/03/02	ND<20	ND<500	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
04/01/02	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
07/01/02	ND<5.0	ND<25	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50
01/24/03	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
07/28/03	ND<100	ND<500	ND<2	ND<2	ND<2	ND<2	ND<2
02/04/04	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
07/02/04	ND<12	ND<800	ND<0.5	ND<0.5	ND<1	ND<1	ND<1
01/11/05	ND<5.0	ND<50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50
07/08/05	ND<5.0	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
01/06/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
09/11/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
02/16/07	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
07/03/07	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
02/01/08	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 7176**

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)
<b>MW-4 continued</b>							
09/02/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
<b>MW-5</b>							
04/05/99	ND	ND	ND	ND	ND	ND	ND
07/01/99	ND	ND	ND	ND	ND	ND	ND
09/30/99	ND	ND	ND	ND	ND	ND	ND
01/03/00	ND	ND	ND	ND	ND	ND	ND
04/04/00	ND	ND	ND	ND	ND	ND	ND
07/14/00	ND	ND	ND	ND	ND	ND	ND
10/27/00	ND	ND	ND	ND	ND	ND	ND
01/08/01	ND	ND	ND	ND	ND	ND	ND
04/03/01	ND	ND	ND	ND	ND	ND	ND
07/06/01	ND	ND	ND	ND	ND	ND	ND
10/05/01	ND<100	ND<1000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
01/03/02	ND<20	ND<500	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
04/01/02	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
07/01/02	ND<5.0	ND<25	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50
01/24/03	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
07/28/03	ND<100	ND<500	ND<2	ND<2	ND<2	ND<2	ND<2
02/04/04	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
07/02/04	ND<12	ND<800	ND<0.5	ND<0.5	ND<1	ND<1	ND<1
01/11/05	ND<5.0	ND<50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50
07/08/05	ND<5.0	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
01/06/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
09/11/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
02/16/07	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 7176**

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)
<b>U-1</b>							
04/05/99	ND	ND	ND	ND	ND	ND	ND
07/01/99	ND	ND	ND	ND	ND	ND	ND
09/30/99	ND	ND	ND	ND	ND	ND	ND
01/03/00	ND	ND	ND	ND	ND	ND	ND
04/04/00	ND	ND	ND	ND	ND	ND	ND
07/14/00	ND	ND	ND	ND	ND	ND	ND
10/27/00	ND	ND	ND	ND	ND	ND	ND
01/08/01	ND	ND	ND	ND	ND	ND	ND
04/03/01	ND	ND	ND	ND	ND	ND	ND
07/06/01	ND	ND	ND	ND	ND	ND	ND
10/05/01	ND<100	ND<1000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
01/03/02	ND<100	ND<2500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
04/01/02	ND<500	ND<2500	ND<10	ND<10	ND<10	ND<10	ND<10
07/01/02	ND<5.0	ND<25	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50
01/24/03	ND<500	ND<2500	ND<10	ND<10	ND<10	ND<10	ND<10
07/28/03	ND<500	ND<2500	ND<10	ND<10	ND<10	ND<10	ND<10
02/04/04	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
07/02/04	ND<12	ND<800	ND<0.5	ND<0.5	ND<1	ND<1	ND<1
01/11/05	5.2	ND<50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50
07/08/05	ND<5.0	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
01/06/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
09/11/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
02/16/07	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
07/03/07	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
02/01/08	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 7176**

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)
<b>U-1 continued</b>							
09/02/08	ND<20	ND<500	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
<b>U-2</b>							
04/05/99	ND	ND	ND	ND	ND	ND	ND
07/01/99	ND	ND	ND	ND	ND	ND	ND
09/30/99	ND	ND	ND	ND	ND	ND	ND
01/03/00	ND	ND	ND	ND	ND	ND	ND
04/04/00	ND	ND	ND	ND	ND	ND	ND
07/14/00	ND	ND	ND	ND	ND	ND	ND
10/27/00	ND	ND	ND	ND	ND	ND	ND
01/08/01	ND	ND	ND	ND	ND	ND	ND
04/03/01	ND	ND	ND	ND	ND	ND	ND
07/06/01	ND	ND	ND	ND	ND	ND	ND
10/05/01	ND<100	ND<1000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
01/03/02	ND<100	ND<2500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
04/01/02	ND<200	ND<1000	ND<4.0	ND<4.0	ND<4.0	ND<4.0	ND<4.0
07/01/02	ND<5.0	ND<25	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50
01/24/03	ND<200	ND<1000	ND<4.0	ND<4.0	ND<4.0	ND<4.0	ND<4.0
07/28/03	ND<500	ND<2500	ND<10	ND<10	ND<10	ND<10	ND<10
02/04/04	ND<1000	ND<5000	ND<20	ND<20	ND<20	ND<20	ND<20
07/02/04	ND<12	ND<800	ND<0.5	ND<0.5	ND<1	ND<1	ND<1
01/11/05	ND<50	ND<500	ND<5.0	ND<5.0	ND<10	ND<5.0	ND<5.0
07/08/05	ND<50	ND<500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
01/06/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
09/11/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
02/16/07	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 7176**

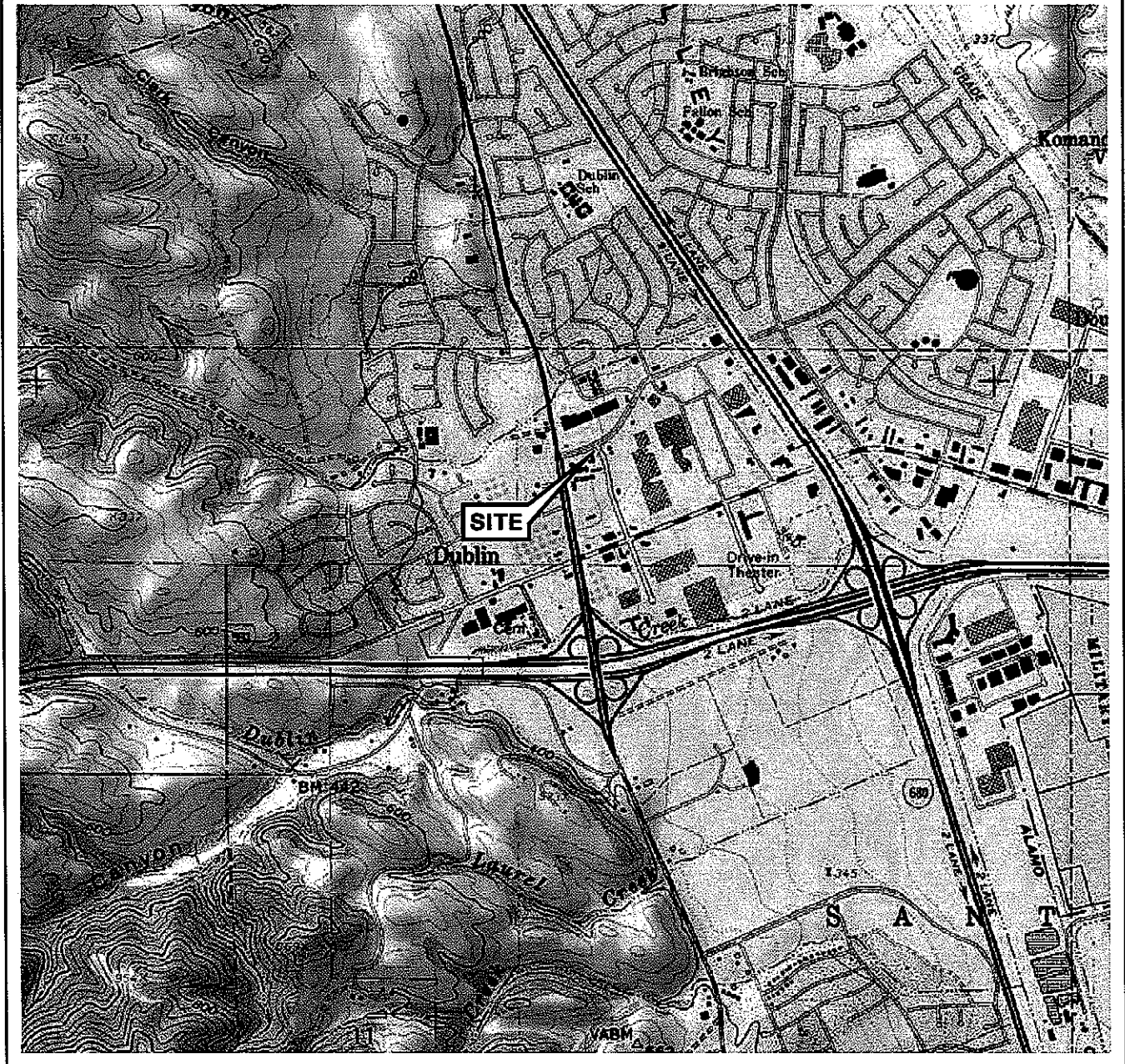
Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene- dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)
<b>U-2 continued</b>							
07/03/07	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
02/01/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
09/02/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
<b>U-3</b>							
04/05/99	ND	ND	ND	ND	ND	ND	ND
07/01/99	ND	ND	ND	ND	ND	ND	ND
09/30/99	ND	ND	ND	ND	ND	ND	ND
01/03/00	ND	ND	ND	ND	ND	ND	ND
04/04/00	ND	ND	ND	ND	ND	ND	ND
07/14/00	ND	ND	ND	ND	ND	ND	ND
10/27/00	ND	ND	ND	ND	ND	ND	ND
01/08/01	ND	ND	ND	ND	ND	ND	ND
04/03/01	ND	ND	ND	ND	ND	ND	ND
07/06/01	ND	ND	ND	ND	ND	ND	ND
10/05/01	ND<100	ND<1000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
01/03/02	ND<20	ND<500	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
04/01/02	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
07/01/02	ND<5.0	ND<25	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50
01/24/03	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
07/28/03	ND<100	ND<500	ND<2	ND<2	ND<2	ND<2	ND<2
02/04/04	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
07/02/04	ND<12	ND<800	ND<0.5	ND<0.5	ND<1	ND<1	ND<1
01/11/05	ND<5.0	ND<50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50
07/08/05	ND<5.0	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
01/06/06	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 7176**

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)
<b>U-3 continued</b>							
09/11/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
02/16/07	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
07/03/07	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
02/01/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
09/02/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50

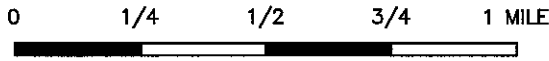
# FIGURES

PS=1:1 L:\DIMS VICINITY M A P S07176vm.dwg Nov 16, 2007 - 8:21am cwong



SOURCE:

United States Geological Survey  
7.5 Minute Topographic Map:  
Dublin Quadrangle



SCALE 1:24,000




PROJECT: 154771

FACILITY:  
76 STATION 7176  
7850 AMADOR VALLEY BOULEVARD  
DUBLIN, CALIFORNIA

VICINITY MAP

FIGURE 1

**LEGEND**

MW-5  Monitoring Well with Groundwater Elevation (feet)

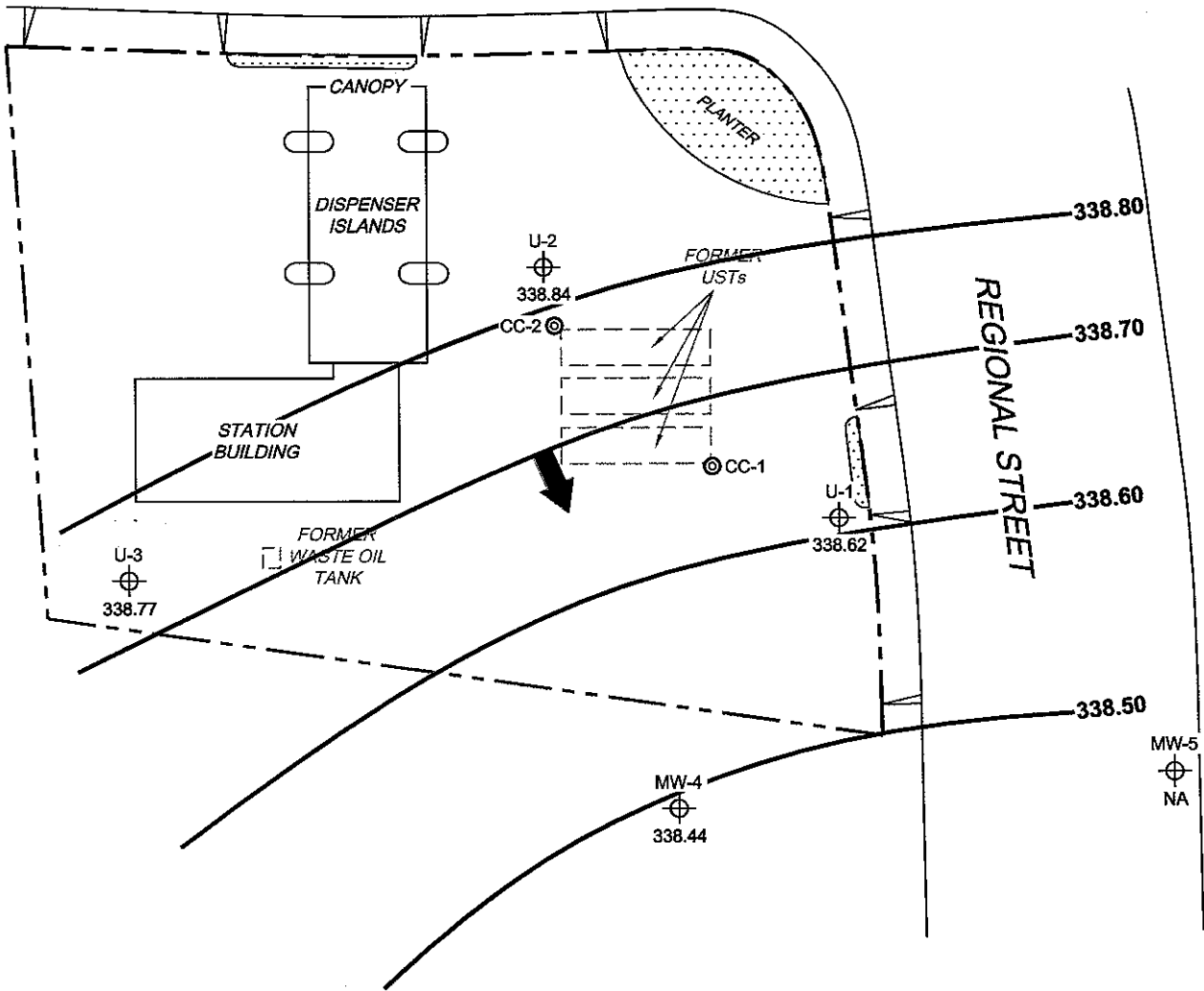
CC-2  Conductor Casing

338.80  Groundwater Elevation Contour

 General Direction of Groundwater Flow



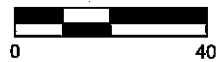
**AMADOR VALLEY BOULEVARD**



**NOTES:**

Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. NA = not analyzed, measured, or collected. UST = underground storage tank.

SCALE (FEET)



L:\Graphics\QMS NORTH-SOUTH\7176-003\7176-QMS(NEW).dwg Oct 08, 2008 - 7:55am bschmidt

MS=1:1 7176-003






PROJECT: 154771  
 FACILITY:  
 76 STATION 7176  
 7850 AMADOR VALLEY BOULEVARD  
 DUBLIN, CALIFORNIA

**GROUNDWATER ELEVATION  
 CONTOUR MAP  
 September 2, 2008**

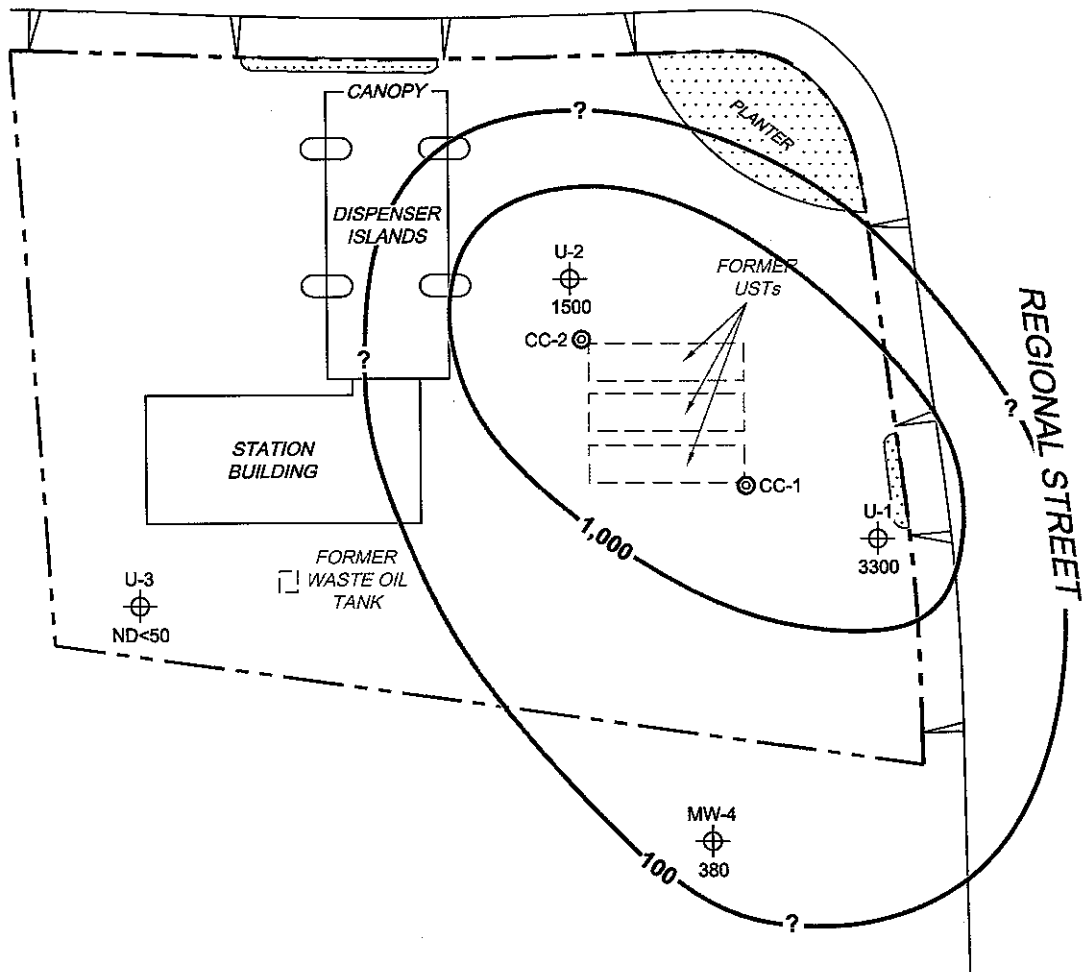
**FIGURE 2**

**LEGEND**

- MW-5  Monitoring Well with Dissolved-Phase TPH-G (GC/MS) Concentration ( $\mu\text{g/l}$ )
- CC-2  Conductor Casing
-  -1,000 Dissolved-Phase TPH-G (GC/MS) Contour ( $\mu\text{g/l}$ )



**AMADOR VALLEY BOULEVARD**



**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. NA = not analyzed, measured, or collected. UST = underground storage tank.

SCALE (FEET)



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MS=1:1 7176-003




PROJECT: 154771  
 FACILITY:  
 76 STATION 7176  
 7850 AMADOR VALLEY BOULEVARD  
 DUBLIN, CALIFORNIA

**DISSOLVED-PHASE TPH-G (GC/MS)  
 CONCENTRATION MAP  
 September 2, 2008**

**FIGURE 3**



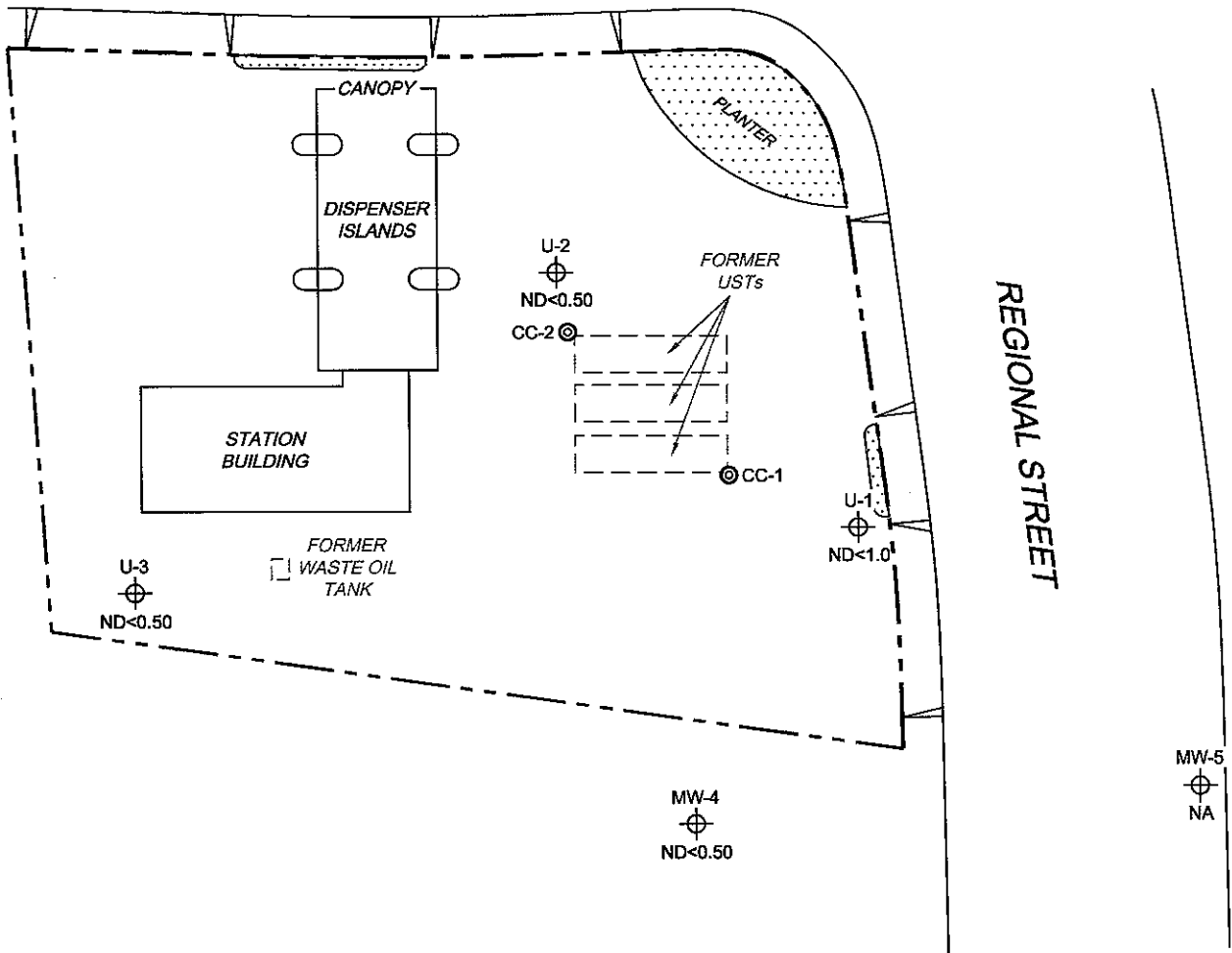
**LEGEND**

MW-5  Monitoring Well with Dissolved-Phase Benzene Concentration ( $\mu\text{g/l}$ )

CC-2  Conductor Casing



**AMADOR VALLEY BOULEVARD**



**NOTES:**

$\mu\text{g/l}$  = micrograms per liter. ND = not detected at limit indicated on official laboratory report. NA = not analyzed, measured, or collected. UST = underground storage tank.

SCALE (FEET)



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MS=1:1 7176-003




PROJECT: 154771  
 FACILITY:  
 76 STATION 7176  
 7850 AMADOR VALLEY BOULEVARD  
 DUBLIN, CALIFORNIA

**DISSOLVED-PHASE BENZENE  
 CONCENTRATION MAP  
 September 2, 2008**

**FIGURE 4**

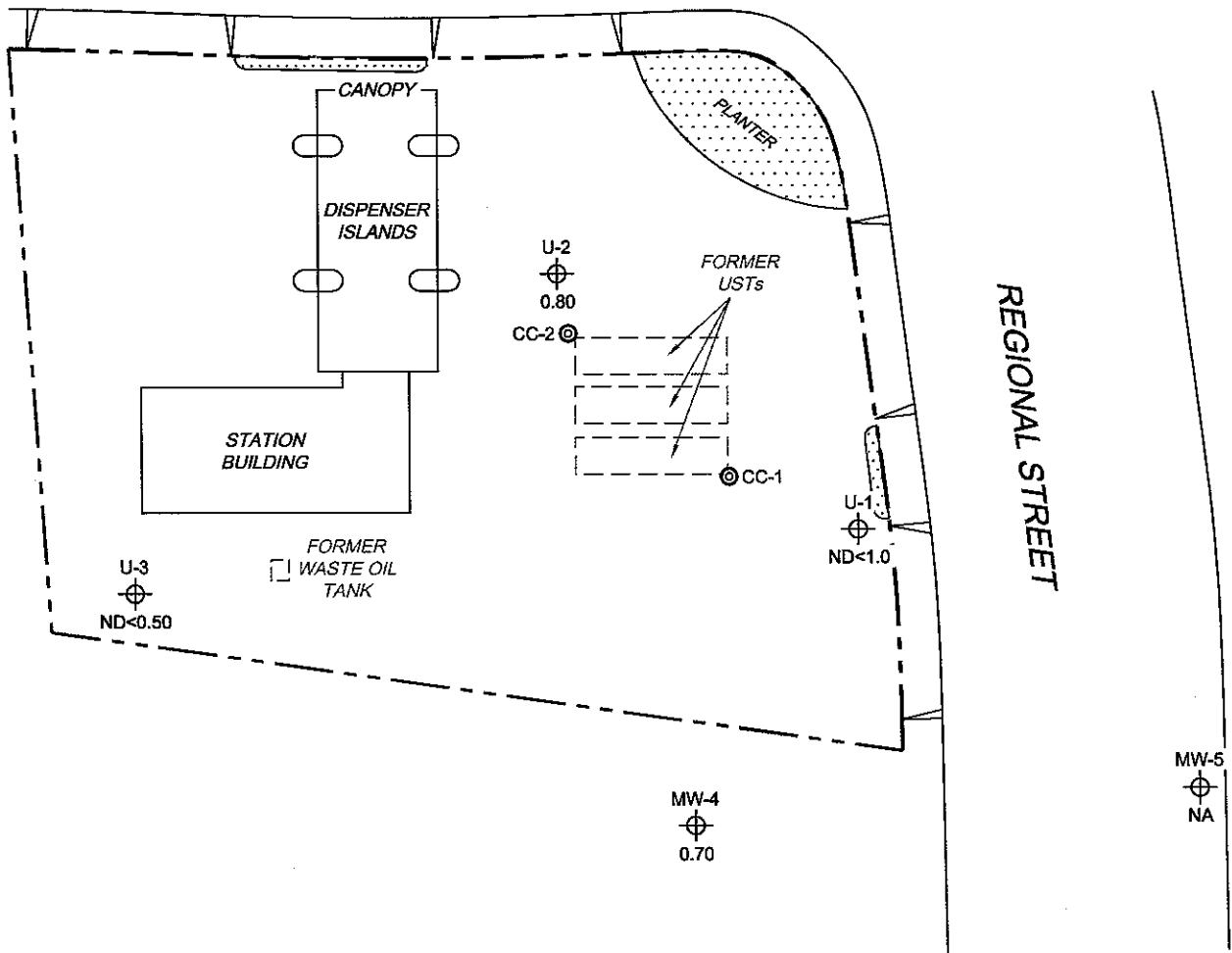
**LEGEND**

MW-5  Monitoring Well with Dissolved-Phase MTBE Concentration ( $\mu\text{g/l}$ )

CC-2  Conductor Casing



**AMADOR VALLEY BOULEVARD**



**NOTES:**

MTBE = methyl tertiary butyl ether.  $\mu\text{g/l}$  = micrograms per liter. ND = not detected at limit indicated on official laboratory report. NA = not analyzed, measured, or collected. UST = underground storage tank. Results obtained using EPA Method 8260B.

SCALE (FEET)



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MS=1:1 7176-003






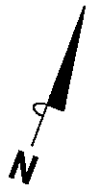
PROJECT: 154771  
 FACILITY:  
 76 STATION 7176  
 7850 AMADOR VALLEY BOULEVARD  
 DUBLIN, CALIFORNIA

**DISSOLVED-PHASE MTBE  
 CONCENTRATION MAP  
 September 2, 2008**

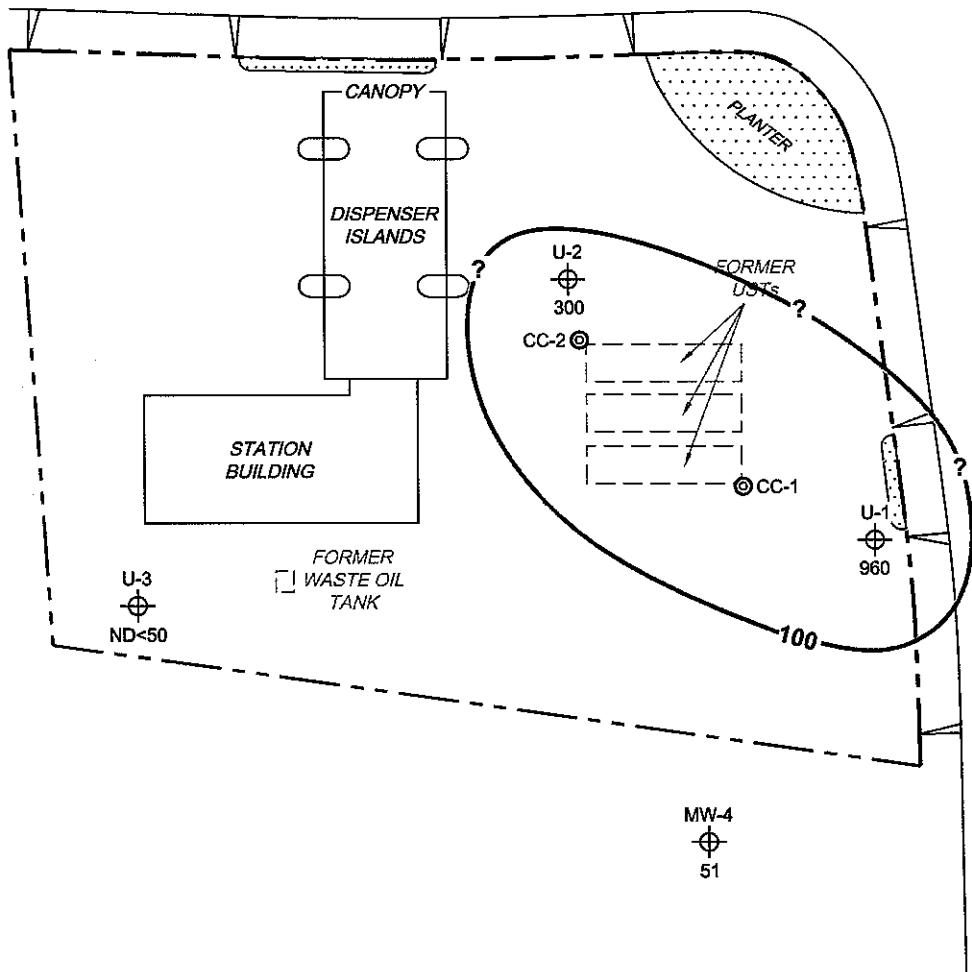
**FIGURE 5**

**LEGEND**

- MW-5  Monitoring Well with Dissolved-Phase TPH-D Concentration ( $\mu\text{g/l}$ )
- CC-2  Conductor Casing
-  100 Dissolved-Phase TPH-D Contour ( $\mu\text{g/l}$ )



**AMADOR VALLEY BOULEVARD**

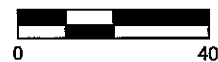


**REGIONAL STREET**

**NOTES:**

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. TPH-D = total petroleum hydrocarbons as diesel.  $\mu\text{g/l}$  = micrograms per liter. ND = not detected at limit indicated on official laboratory report. NA = not analyzed, measured, or collected. UST = underground storage tank. Results obtained using EPA Method 8015M.

SCALE (FEET)



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MS=1:1 7176-003



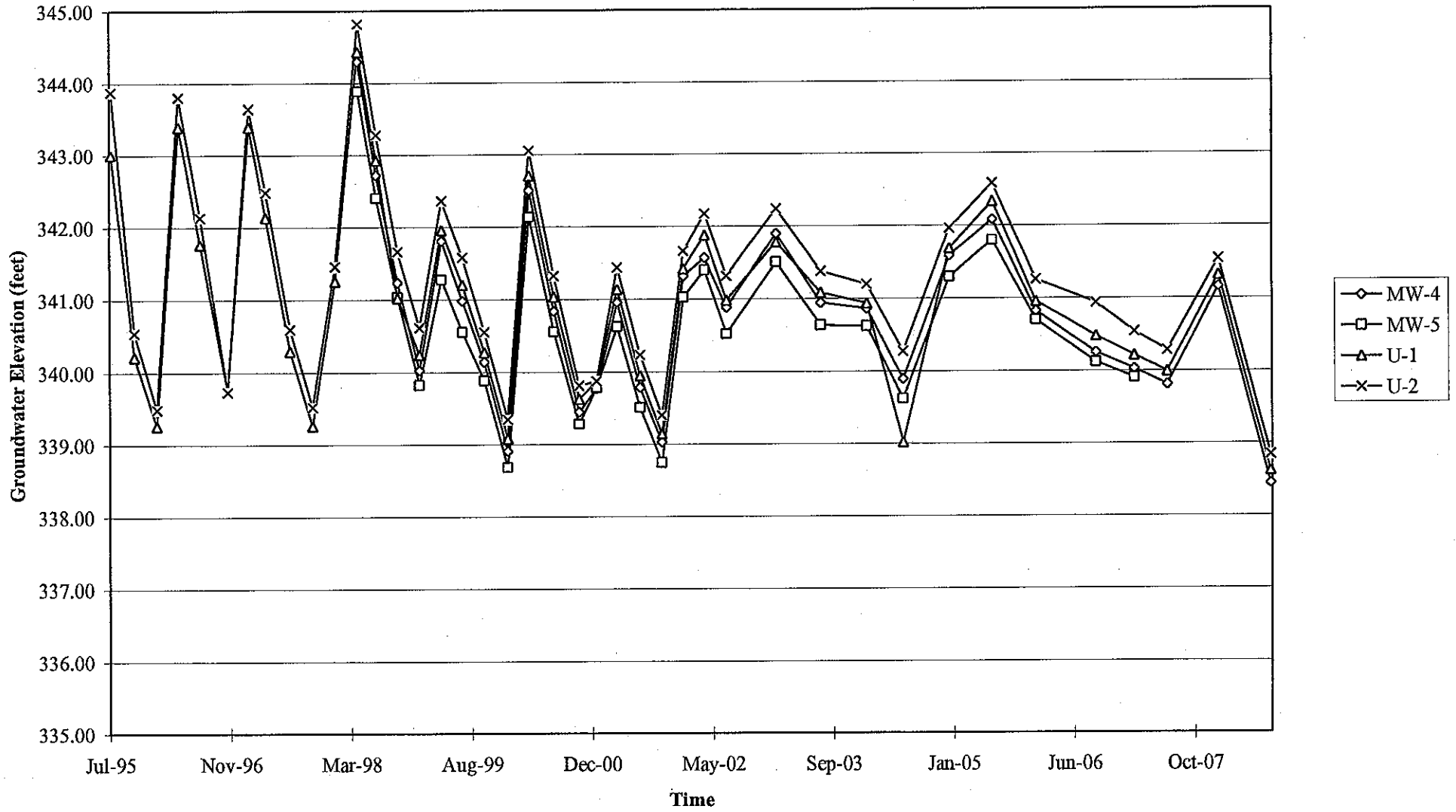
PROJECT: 154771  
 FACILITY:  
 76 STATION 7176  
 7850 AMADOR VALLEY BOULEVARD  
 DUBLIN, CALIFORNIA

**DISSOLVED-PHASE TPH-D  
 CONCENTRATION MAP**  
 September 2, 2008

**FIGURE 6**

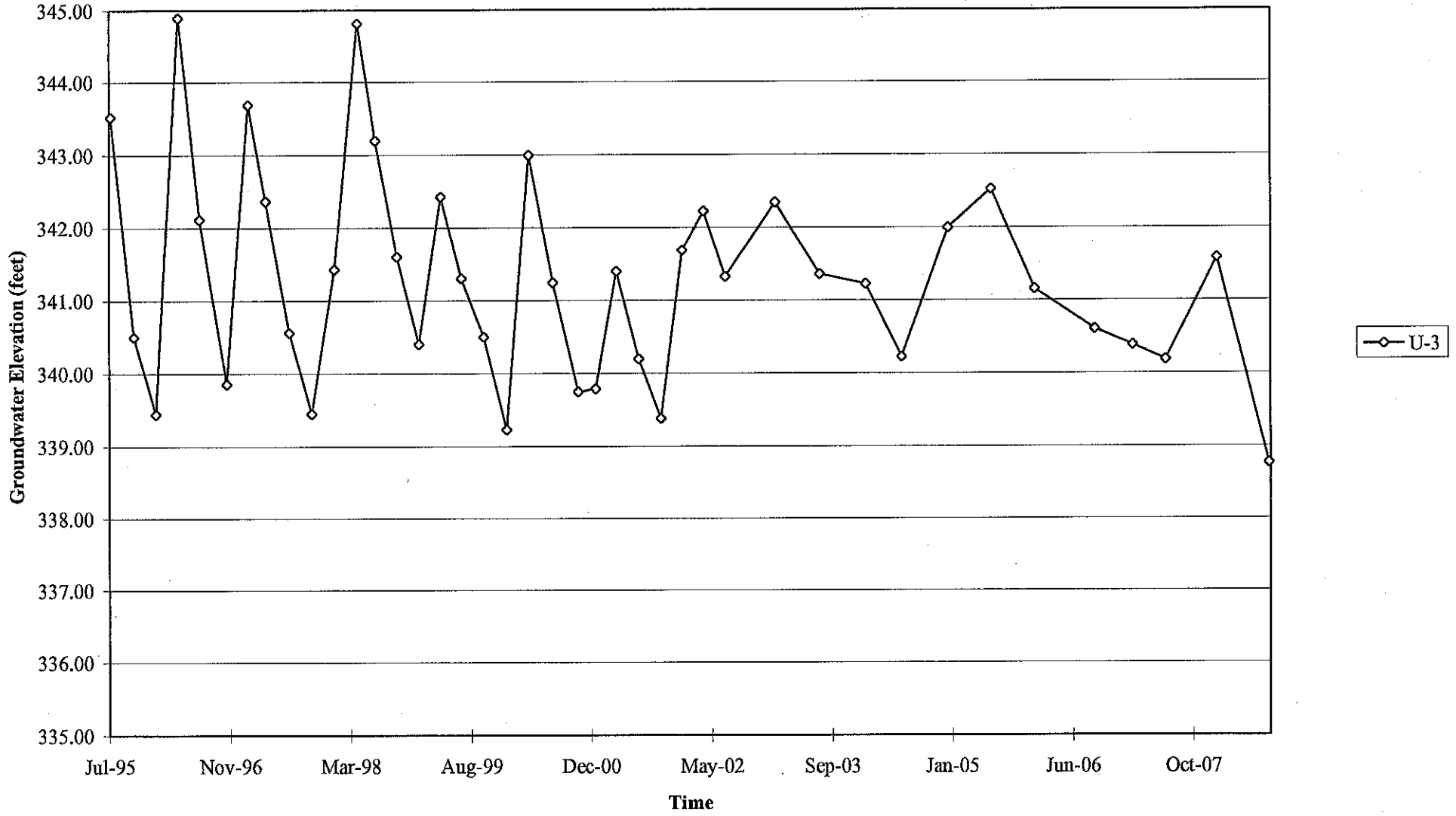
# GRAPHS

Groundwater Elevations vs. Time  
76 Station 7176



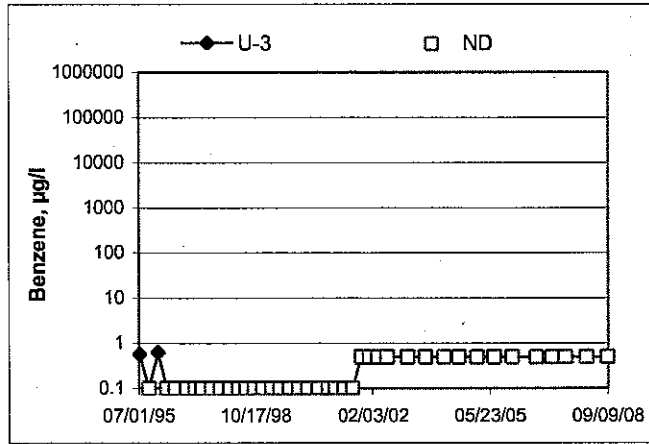
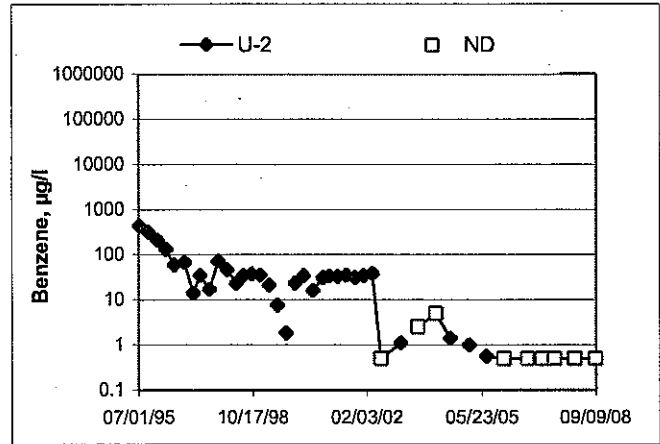
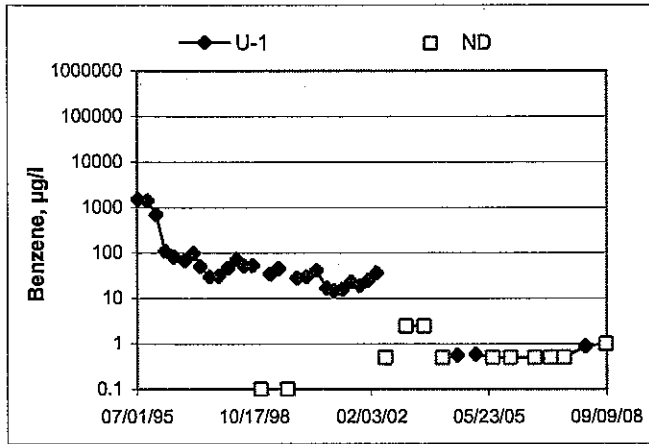
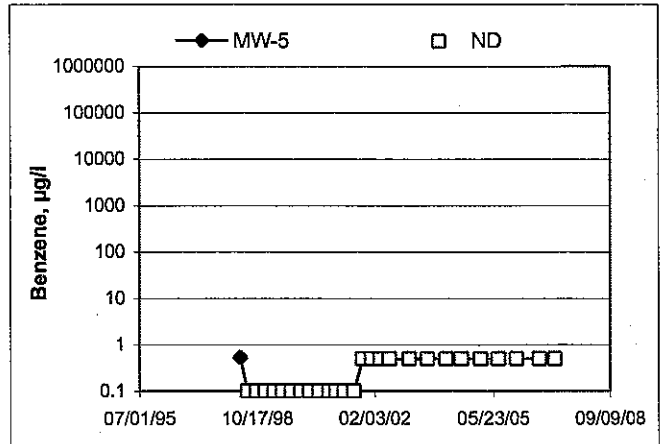
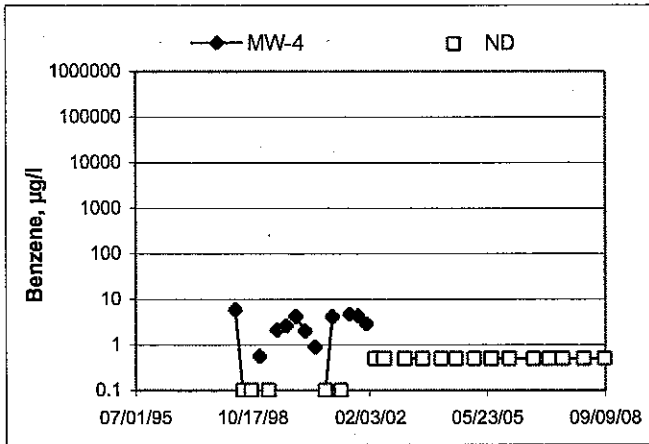
Elevations may have been corrected for apparent changes due to resurvey

Groundwater Elevations vs. Time  
76 Station 7176



Elevations may have been corrected for apparent changes due to resurvey

**Benzene Concentrations vs Time**  
76 Station 7176







# GENERAL FIELD PROCEDURES

## Groundwater Monitoring and Sampling Assignments

For each site, TRC technicians are provided with a Technical Service Request (TSR) that specifies activities required to complete the groundwater monitoring and sampling assignment for the site. TSRs are based on client directives, instructions from the primary environmental consultant for the site, regulatory requirements, and TRC's previous experience with the site.

## Fluid Level Measurements

Initial site activities include determination of well locations based on a site map provided with the TSR. Well boxes are opened and caps are removed. Indications of well or well box damage or of pressure buildup in the well are noted.

Fluid levels in each well are measured using a coated cloth tape equipped with an electronic interface probe, which distinguishes between liquid phase hydrocarbon (LPH) and water. The depth to LPH (if it is present), to water, and to the bottom of the well are measured from the top of the well casing (surveyors mark or notch if present) to the nearest 0.01 foot. Unless otherwise instructed, a well with less than 0.67 foot between the measured top of water and the measured bottom of the well casing is considered dry, and is not sampled. If the well contains 0.67 foot or more of water, an attempt is made to bail and/or sample as specified on the TSR.

Wells that are found to contain LPH are not purged or sampled. Instead, one casing volume of fluid is bailed from the well and the well is re-sealed. Bailed fluids are placed in a container separate from normal purge water, and properly disposed.

## Purging and Groundwater Parameter Measurement

TSR instructions may specify that a well not be purged (no-purge sampling), be purged using low-flow methods, or be purged using conventional pump and/or bail methods. Conventional purging generally consists of pumping or bailing until a minimum of three casing volumes of water have been removed or until the well has been pumped dry. Pumping is generally accomplished using submersible electric or pneumatic diaphragm pumps.

During conventional purging, three groundwater parameters (temperature, pH, and conductivity) are measured after removal of each casing volume. Stabilization of these parameters, to within 10 percent, confirm that sufficient purging has been completed. In some cases, the TSR indicates that other parameters are also to be measured during purging. TRC commonly measures dissolved oxygen (DO), oxidation-reduction potential (ORP), and/or turbidity. Instruments used for groundwater parameter measurements are calibrated daily according to manufacturer's instructions.

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

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

## **Groundwater Sample Collection**

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

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

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

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

### **Sequence of Gauging, Purging and Sampling**

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

### **Decontamination**

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

### **Exceptions**

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



## GROUNDWATER SAMPLING FIELD NOTES

Technician: Andrew Vukobrat

Site: 7176

Project No.: 15A771

Date: 09/02/08

Well No. MW-4

Purge Method: HB

Depth to Water (feet): 17.97

Depth to Product (feet):           

Total Depth (feet): 25.42

LPH & Water Recovered (gallons):           

Water Column (feet): 7.45

Casing Diameter (Inches): 2

80% Recharge Depth(feet): 19.46

1 Well Volume (gallons): 2

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
0746			2	1321	19.0	7.80			
			4	1306	20.2	7.19			
	0747		6	1306	20.5	6.98			
Static at Time Sampled			Total Gallons Purged		Sample Time				
18.03			6		0752				
<b>Comments:</b>									

Well No. U-3

Purge Method: Sub

Depth to Water (feet): 19.32

Depth to Product (feet):           

Total Depth (feet): 28.35

LPH & Water Recovered (gallons):           

Water Column (feet): 9.03

Casing Diameter (Inches): 2

80% Recharge Depth(feet): 21.13

1 Well Volume (gallons): 2

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
0804			2	1268	18.4	7.68			
			4	1268	19.8	7.28			
	0808		6	1270	20.2	7.10			
Static at Time Sampled			Total Gallons Purged		Sample Time				
19.37			6		0813				
<b>Comments:</b>									

## GROUNDWATER SAMPLING FIELD NOTES

Technician: Andrew Vidlers

Site: 7176

Project No.: 154771

Date: 09/02/08

Well No. U-2

Purge Method: Sub

Depth to Water (feet): 17.71

Depth to Product (feet): —

Total Depth (feet): 26.34

LPH & Water Recovered (gallons): —

Water Column (feet): 8.63

Casing Diameter (Inches): 2

80% Recharge Depth(feet): 19.44

1 Well Volume (gallons): 2

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
0821			2	1246	19.3	6.92			
			4	1194	20.3	6.82			
	0825		6	1190	20.6	6.78			
Static at Time Sampled			Total Gallons Purged		Sample Time				
17.92			6		0830				
<b>Comments:</b>									

Well No. U-1

Purge Method: Sub

Depth to Water (feet): 16.97

Depth to Product (feet): —

Total Depth (feet): 28.53

LPH & Water Recovered (gallons): —

Water Column (feet): 11.58

Casing Diameter (Inches): 2

80% Recharge Depth(feet): 19.29

1 Well Volume (gallons): 2

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
0838			2	1080	20.0	6.90			
			4	1084	20.7	6.80			
	0842		6	1094	20.9	6.78			
Static at Time Sampled			Total Gallons Purged		Sample Time				
17.19			6		0846				
<b>Comments:</b>									

STATEMENT OF NON-COMPLETION OF JOB

DATE OF EVENT: 09/02/08 STATION NUMBER: 7176

NAME OF TECH: Andrew Vitlers CALLED GORDON: \_\_\_\_\_

CALLED PM:  NAME OF PM CALLED: A. Collins

WELL NUMBER: MW-5 STATEMENT FROM PM \_\_\_\_\_ OR TECH

Unable to access. Slurry over well

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

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

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



Date of Report: 09/17/2008

Anju Farfan

TRC  
21 Technology Drive  
Irvine, CA 92618

RE: 7176  
BC Work Order: 0811618

Enclosed are the results of analyses for samples received by the laboratory on 9/3/2008. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Molly Meyers  
Client Service Rep

Authorized Signature

TRC  
21 Technology Drive  
Irvine, CA 92618

Project: 7176  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 09/17/2008 13:27

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			Receive Date:	Sampling Date:	Sample Depth:	Sample Matrix:	Delivery Work Order:	Global ID:	Matrix:	Sample QC Type (SACode):	Cooler ID:
0811618-01	COC Number:	---		09/03/2008 23:00	09/02/2008 07:52	---	Water		T0600101883	W	CS	
	Project Number:	7176										
	Sampling Location:	MW-4										
	Sampling Point:	MW-4										
	Sampled By:	TRCI										
0811618-02	COC Number:	---		09/03/2008 23:00	09/02/2008 08:13	---	Water		T0600101883	W	CS	
	Project Number:	7176										
	Sampling Location:	U-3										
	Sampling Point:	U-3										
	Sampled By:	TRCI										
0811618-03	COC Number:	---		09/03/2008 23:00	09/02/2008 08:30	---	Water		T0600101883	W	CS	
	Project Number:	7176										
	Sampling Location:	U-2										
	Sampling Point:	U-2										
	Sampled By:	TRCI										
0811618-04	COC Number:	---		09/03/2008 23:00	09/02/2008 08:46	---	Water		T0600101883	W	CS	
	Project Number:	7176										
	Sampling Location:	U-1										
	Sampling Point:	U-1										
	Sampled By:	TRCI										

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TRC  
21 Technology Drive  
Irvine, CA 92618

Project: 7176  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 09/17/2008 13:27

## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0811618-01		Client Sample Name: 7176, MW-4, MW-4, 9/2/2008 7:52:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	09/05/08	09/06/08 08:55	SDU	MS-V10	1	BRI0413	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	09/05/08	09/06/08 08:55	SDU	MS-V10	1	BRI0413	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	09/05/08	09/06/08 08:55	SDU	MS-V10	1	BRI0413	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	09/05/08	09/06/08 08:55	SDU	MS-V10	1	BRI0413	ND	
Methyl t-butyl ether	0.70	ug/L	0.50		EPA-8260	09/05/08	09/06/08 08:55	SDU	MS-V10	1	BRI0413	ND	
Toluene	ND	ug/L	0.50		EPA-8260	09/05/08	09/06/08 08:55	SDU	MS-V10	1	BRI0413	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	09/05/08	09/06/08 08:55	SDU	MS-V10	1	BRI0413	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	09/05/08	09/06/08 08:55	SDU	MS-V10	1	BRI0413	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	09/05/08	09/06/08 08:55	SDU	MS-V10	1	BRI0413	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	09/05/08	09/06/08 08:55	SDU	MS-V10	1	BRI0413	ND	
Ethanol	ND	ug/L	250		EPA-8260	09/05/08	09/06/08 08:55	SDU	MS-V10	1	BRI0413	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	09/05/08	09/06/08 08:55	SDU	MS-V10	1	BRI0413	ND	
Total Purgeable Petroleum Hydrocarbons	380	ug/L	50		EPA-8260	09/05/08	09/06/08 08:55	SDU	MS-V10	1	BRI0413	ND	
1,2-Dichloroethane-d4 (Surrogate)	100	%	76 - 114 (LCL - UCL)		EPA-8260	09/05/08	09/06/08 08:55	SDU	MS-V10	1	BRI0413		
Toluene-d8 (Surrogate)	99.1	%	88 - 110 (LCL - UCL)		EPA-8260	09/05/08	09/06/08 08:55	SDU	MS-V10	1	BRI0413		
4-Bromofluorobenzene (Surrogate)	107	%	86 - 115 (LCL - UCL)		EPA-8260	09/05/08	09/06/08 08:55	SDU	MS-V10	1	BRI0413		

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Irvine, CA 92618

Project: 7176  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 09/17/2008 13:27

## Total Petroleum Hydrocarbons

BCL Sample ID: 0811618-01		Client Sample Name: 7176, MW-4, MW-4, 9/2/2008 7:52:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	51	ug/L	50		Luft/TPHd	09/08/08	09/16/08 01:08	CKD	GC-5	1	BRI1115	ND	
Tetracosane (Surrogate)	89.1	%	28 - 139 (LCL - UCL)		Luft/TPHd	09/08/08	09/16/08 01:08	CKD	GC-5	1	BRI1115		

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Irvine, CA 92618

Project: 7176  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 09/17/2008 13:27

## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0811618-02		Client Sample Name: 7176, U-3, U-3, 9/2/2008 8:13:00AM												
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Benzene	ND	ug/L	0.50		EPA-8260	09/05/08	09/06/08 09:13	SDU	MS-V10	1	BRI0413	ND		
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	09/05/08	09/06/08 09:13	SDU	MS-V10	1	BRI0413	ND		
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	09/05/08	09/06/08 09:13	SDU	MS-V10	1	BRI0413	ND		
Ethylbenzene	ND	ug/L	0.50		EPA-8260	09/05/08	09/06/08 09:13	SDU	MS-V10	1	BRI0413	ND		
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	09/05/08	09/06/08 09:13	SDU	MS-V10	1	BRI0413	ND		
Toluene	ND	ug/L	0.50		EPA-8260	09/05/08	09/06/08 09:13	SDU	MS-V10	1	BRI0413	ND		
Total Xylenes	ND	ug/L	1.0		EPA-8260	09/05/08	09/06/08 09:13	SDU	MS-V10	1	BRI0413	ND		
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	09/05/08	09/06/08 09:13	SDU	MS-V10	1	BRI0413	ND		
t-Butyl alcohol	ND	ug/L	10		EPA-8260	09/05/08	09/06/08 09:13	SDU	MS-V10	1	BRI0413	ND		
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	09/05/08	09/06/08 09:13	SDU	MS-V10	1	BRI0413	ND		
Ethanol	ND	ug/L	250		EPA-8260	09/05/08	09/06/08 09:13	SDU	MS-V10	1	BRI0413	ND		
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	09/05/08	09/06/08 09:13	SDU	MS-V10	1	BRI0413	ND		
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	09/05/08	09/06/08 09:13	SDU	MS-V10	1	BRI0413	ND		
1,2-Dichloroethane-d4 (Surrogate)	105	%	76 - 114 (LCL - UCL)		EPA-8260	09/05/08	09/06/08 09:13	SDU	MS-V10	1	BRI0413			
Toluene-d8 (Surrogate)	96.0	%	88 - 110 (LCL - UCL)		EPA-8260	09/05/08	09/06/08 09:13	SDU	MS-V10	1	BRI0413			
4-Bromofluorobenzene (Surrogate)	101	%	86 - 115 (LCL - UCL)		EPA-8260	09/05/08	09/06/08 09:13	SDU	MS-V10	1	BRI0413			

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Project: 7176  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 09/17/2008 13:27

## Total Petroleum Hydrocarbons

BCL Sample ID: 0811618-02		Client Sample Name: 7176, U-3, U-3, 9/2/2008 8:13:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	ND	ug/L	50		Luft/TPHd	09/08/08	09/16/08 02:06	CKD	GC-5	1	BRI1115	ND	
Tetracosane (Surrogate)	80.4	%	28 - 139 (LCL - UCL)		Luft/TPHd	09/08/08	09/16/08 02:06	CKD	GC-5	1	BRI1115		

TRC  
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Irvine, CA 92618

Project: 7176  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 09/17/2008 13:27

## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0811618-03		Client Sample Name: 7176, U-2, U-2, 9/2/2008 8:30:00AM												
Constituent	Result	Units	PQL	MDL	Method	Prep	Run		Analyst	Instru- ment ID	Dilution	QC	MB	Lab
						Date	Date/Time	Batch ID				Bias	Quals	
Benzene	ND	ug/L	0.50		EPA-8260	09/05/08	09/06/08	09:31	SDU	MS-V10	1	BRI0413	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	09/05/08	09/06/08	09:31	SDU	MS-V10	1	BRI0413	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	09/05/08	09/06/08	09:31	SDU	MS-V10	1	BRI0413	ND	
Ethylbenzene	0.73	ug/L	0.50		EPA-8260	09/05/08	09/06/08	09:31	SDU	MS-V10	1	BRI0413	ND	
Methyl t-butyl ether	0.80	ug/L	0.50		EPA-8260	09/05/08	09/06/08	09:31	SDU	MS-V10	1	BRI0413	ND	
Toluene	ND	ug/L	0.50		EPA-8260	09/05/08	09/06/08	09:31	SDU	MS-V10	1	BRI0413	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	09/05/08	09/06/08	09:31	SDU	MS-V10	1	BRI0413	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	09/05/08	09/06/08	09:31	SDU	MS-V10	1	BRI0413	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	09/05/08	09/06/08	09:31	SDU	MS-V10	1	BRI0413	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	09/05/08	09/06/08	09:31	SDU	MS-V10	1	BRI0413	ND	
Ethanol	ND	ug/L	250		EPA-8260	09/05/08	09/06/08	09:31	SDU	MS-V10	1	BRI0413	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	09/05/08	09/06/08	09:31	SDU	MS-V10	1	BRI0413	ND	
Total Purgeable Petroleum Hydrocarbons	1500	ug/L	50		EPA-8260	09/05/08	09/06/08	09:31	SDU	MS-V10	1	BRI0413	ND	
1,2-Dichloroethane-d4 (Surrogate)	103	%	76 - 114 (LCL - UCL)		EPA-8260	09/05/08	09/06/08	09:31	SDU	MS-V10	1	BRI0413		
Toluene-d8 (Surrogate)	99.8	%	88 - 110 (LCL - UCL)		EPA-8260	09/05/08	09/06/08	09:31	SDU	MS-V10	1	BRI0413		
4-Bromofluorobenzene (Surrogate)	115	%	86 - 115 (LCL - UCL)		EPA-8260	09/05/08	09/06/08	09:31	SDU	MS-V10	1	BRI0413		

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Project: 7176  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 09/17/2008 13:27

### Total Petroleum Hydrocarbons

BCL Sample ID: 0811618-03		Client Sample Name: 7176, U-2, U-2, 9/2/2008 8:30:00AM												
Constituent	Result	Units	PQL	MDL	Method	Prep	Run		Analyst	Instru-	Dilution	QC	MB	Lab
						Date	Date/Time	ment ID		Batch ID		Bias	Quals	
Diesel Range Organics (C12 - C24)	300	ug/L	50		Luf/TPHd	09/08/08	09/16/08	02:21	CKD	GC-5	1	BRI1115	ND	
Tetracosane (Surrogate)	83.3	%	28 - 139 (LCL - UCL)		Luf/TPHd	09/08/08	09/16/08	02:21	CKD	GC-5	1	BRI1115		

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Project: 7176  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 09/17/2008 13:27

### Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0811618-04		Client Sample Name: 7176, U-1, U-1, 9/2/2008 8:46:00AM												
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru- ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Benzene	ND	ug/L	1.0		EPA-8260	09/05/08	09/08/08 21:39	SDU	MS-V10	2	BRI0413	ND	A01	
1,2-Dibromoethane	ND	ug/L	1.0		EPA-8260	09/05/08	09/08/08 21:39	SDU	MS-V10	2	BRI0413	ND	A01	
1,2-Dichloroethane	ND	ug/L	1.0		EPA-8260	09/05/08	09/08/08 21:39	SDU	MS-V10	2	BRI0413	ND	A01	
Ethylbenzene	1.4	ug/L	1.0		EPA-8260	09/05/08	09/08/08 21:39	SDU	MS-V10	2	BRI0413	ND	A01	
Methyl t-butyl ether	ND	ug/L	1.0		EPA-8260	09/05/08	09/08/08 21:39	SDU	MS-V10	2	BRI0413	ND	A01	
Toluene	ND	ug/L	1.0		EPA-8260	09/05/08	09/08/08 21:39	SDU	MS-V10	2	BRI0413	ND	A01	
Total Xylenes	ND	ug/L	2.0		EPA-8260	09/05/08	09/08/08 21:39	SDU	MS-V10	2	BRI0413	ND	A01	
t-Amyl Methyl ether	ND	ug/L	1.0		EPA-8260	09/05/08	09/08/08 21:39	SDU	MS-V10	2	BRI0413	ND	A01	
t-Butyl alcohol	ND	ug/L	20		EPA-8260	09/05/08	09/08/08 21:39	SDU	MS-V10	2	BRI0413	ND	A01	
Diisopropyl ether	ND	ug/L	1.0		EPA-8260	09/05/08	09/08/08 21:39	SDU	MS-V10	2	BRI0413	ND	A01	
Ethanol	ND	ug/L	500		EPA-8260	09/05/08	09/08/08 21:39	SDU	MS-V10	2	BRI0413	ND	A01	
Ethyl t-butyl ether	ND	ug/L	1.0		EPA-8260	09/05/08	09/08/08 21:39	SDU	MS-V10	2	BRI0413	ND	A01	
Total Purgeable Petroleum Hydrocarbons	3300	ug/L	100		EPA-8260	09/05/08	09/08/08 21:39	SDU	MS-V10	2	BRI0413	ND	A01	
1,2-Dichloroethane-d4 (Surrogate)	101	%	76 - 114 (LCL - UCL)		EPA-8260	09/05/08	09/08/08 21:39	SDU	MS-V10	2	BRI0413			
Toluene-d8 (Surrogate)	98.6	%	88 - 110 (LCL - UCL)		EPA-8260	09/05/08	09/08/08 21:39	SDU	MS-V10	2	BRI0413			
4-Bromofluorobenzene (Surrogate)	100	%	86 - 115 (LCL - UCL)		EPA-8260	09/05/08	09/08/08 21:39	SDU	MS-V10	2	BRI0413			

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Project: 7176  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 09/17/2008 13:27

### Total Petroleum Hydrocarbons

BCL Sample ID: 0811618-04		Client Sample Name: 7176, U-1, U-1, 9/2/2008 8:46:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep	Run	Analyst	Instru- ment ID	Dilution	QC	MB	Lab Quals
						Date	Date/Time				Batch ID	Bias	
Diesel Range Organics (C12 - C24)	960	ug/L	50		Luft/TPHd	09/08/08	09/16/08 02:35	CKD	GC-5	1	BRI1115	ND	
Tetracosane (Surrogate)	81.7	%	28 - 139 (LCL - UCL)		Luft/TPHd	09/08/08	09/16/08 02:35	CKD	GC-5	1	BRI1115		





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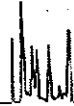
Project: 7176  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 09/17/2008 13:27

## Volatile Organic Analysis (EPA Method 8260) Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits	
									Percent Recovery	Percent Recovery Lab Quals
Benzene	BRI0413	Matrix Spike	0811678-02	0	23.590	25.000	ug/L	0	94.4	70 - 130
		Matrix Spike Duplicate	0811678-02	0	23.610	25.000	ug/L		94.4	20
Toluene	BRI0413	Matrix Spike	0811678-02	0	23.330	25.000	ug/L	1.8	93.3	70 - 130
		Matrix Spike Duplicate	0811678-02	0	23.750	25.000	ug/L		95.0	20
1,2-Dichloroethane-d4 (Surrogate)	BRI0413	Matrix Spike	0811678-02	ND	9.6400	10.000	ug/L		96.4	76 - 114
		Matrix Spike Duplicate	0811678-02	ND	9.7200	10.000	ug/L		97.2	
Toluene-d8 (Surrogate)	BRI0413	Matrix Spike	0811678-02	ND	9.6200	10.000	ug/L		96.2	88 - 110
		Matrix Spike Duplicate	0811678-02	ND	9.9800	10.000	ug/L		99.8	
4-Bromofluorobenzene (Surrogate)	BRI0413	Matrix Spike	0811678-02	ND	10.360	10.000	ug/L		104	86 - 115
		Matrix Spike Duplicate	0811678-02	ND	10.340	10.000	ug/L		103	

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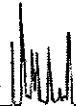
Reported: 09/17/2008 13:27

## Total Petroleum Hydrocarbons 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
Diesel Range Organics (C12 - C24)	BRI1115	Matrix Spike	0807421-82	0	333.66	500.00	ug/L		66.7		36 - 130
		Matrix Spike Duplicate	0807421-82	0	309.71	500.00	ug/L	7.5	61.9	30	36 - 130
Tetracosane (Surrogate)	BRI1115	Matrix Spike	0807421-82	ND	16.912	20.000	ug/L		84.6		28 - 139
		Matrix Spike Duplicate	0807421-82	ND	15.275	20.000	ug/L		76.4		28 - 139

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## Volatile Organic Analysis (EPA Method 8260) Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Control Limits		Lab Quals
								Percent Recovery	RPD	
Benzene	BRI0413	BRI0413-BS1	LCS	24.720	25.000	0.50	ug/L	98.9	70 - 130	
Toluene	BRI0413	BRI0413-BS1	LCS	25.680	25.000	0.50	ug/L	103	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	BRI0413	BRI0413-BS1	LCS	9.7900	10.000		ug/L	97.9	76 - 114	
Toluene-d8 (Surrogate)	BRI0413	BRI0413-BS1	LCS	9.8900	10.000		ug/L	98.9	88 - 110	
4-Bromofluorobenzene (Surrogate)	BRI0413	BRI0413-BS1	LCS	10.310	10.000		ug/L	103	86 - 115	

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## Total Petroleum Hydrocarbons

### Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Control Limits			Lab Quals
								Percent Recovery	RPD	Percent Recovery RPD	
Diesel Range Organics (C12 - C24)	BRI1115	BRI1115-BS1	LCS	342.06	500.00	50	ug/L	68.4		48 - 125	
Tetracosane (Surrogate)	BRI1115	BRI1115-BS1	LCS	16.959	20.000		ug/L	84.8		28 - 139	

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## 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	BRI0413	BRI0413-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BRI0413	BRI0413-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BRI0413	BRI0413-BLK1	ND	ug/L	0.50		
Ethylbenzene	BRI0413	BRI0413-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BRI0413	BRI0413-BLK1	ND	ug/L	0.50		
Toluene	BRI0413	BRI0413-BLK1	ND	ug/L	0.50		
Total Xylenes	BRI0413	BRI0413-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BRI0413	BRI0413-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BRI0413	BRI0413-BLK1	ND	ug/L	10		
Diisopropyl ether	BRI0413	BRI0413-BLK1	ND	ug/L	0.50		
Ethanol	BRI0413	BRI0413-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BRI0413	BRI0413-BLK1	ND	ug/L	0.50		
Total Purgeable Petroleum Hydrocarbons	BRI0413	BRI0413-BLK1	ND	ug/L	50		
1,2-Dichloroethane-d4 (Surrogate)	BRI0413	BRI0413-BLK1	99.0	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BRI0413	BRI0413-BLK1	101	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BRI0413	BRI0413-BLK1	101	%	86 - 115 (LCL - UCL)		

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## Total Petroleum Hydrocarbons

### Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Diesel Range Organics (C12 - C24)	BRI1115	BRI1115-BLK1	ND	ug/L	50		
Tetracosane (Surrogate)	BRI1115	BRI1115-BLK1	78.2	%	28 - 139 (LCL - UCL)		

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### 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  
A01 PQL's and MDL's are raised due to sample dilution.

Submission #: 0811018

SHIPPING INFORMATION

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

SHIPPING CONTAINER

Ice Chest  None   
Box  Other  (Specify) \_\_\_\_\_

Refrigerant: Ice  Blue Ice  None  Other  Comments: \_\_\_\_\_

Custody Seals Ice Chest  Containers  None  Comments: \_\_\_\_\_

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

COC Received  
 YES  NO

Emissivity: -.97 Container: GTA Thermometer ID: 48  
Temperature: A 0.2 °C / C 0.0 °C

Date/Time 9-3-8<sup>2312</sup>  
Analyst Init RLN

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

Comments: \_\_\_\_\_  
Sample Numbering Completed By: CLL Date/Time: 9/10/08 135

A = Actual / C = Corrected





## **STATEMENTS**

### **Purge Water Disposal**

Non-hazardous groundwater produced during purging and sampling of monitoring was accumulated at TRC's groundwater monitoring facility at Concord, California, for transportation by 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 suspected of containing potentially hazardous material, such as liquid-phase hydrocarbons, was accumulated separately in a drum 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.

