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10:19 am, May 15, 2009

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DATE: March 12, 2008

TO: ConocoPhillips Company  
76 Broadway  
Sacramento, CA 95818

ATTN: MR. BILL BORGH

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

RE: SEMI-ANNUAL MONITORING REPORT  
OCTOBER 2007 THROUGH MARCH 2008

Dear Mr. Borgh:

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

Anju Farfan  
Groundwater Program Operations Manager

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

Enclosures  
20-0400/7176R09.QMS

**SEMI-ANNUAL MONITORING REPORT  
OCTOBER 2007 THROUGH MARCH 2008**

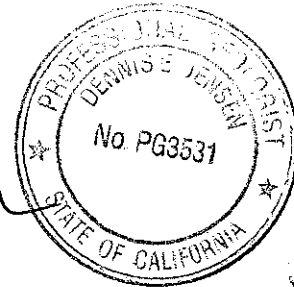
76 STATION 7176  
7850 Amador Valley Blvd.  
Dublin, California

Prepared For:

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

By:

*Dennis Jensen*



Senior Project Geologist, Irvine Operations

Date: 3/12/08



## LIST OF ATTACHMENTS

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Graphs	Groundwater Elevations vs. Time Benzene Concentrations vs. Time MTBE Concentrations vs. Time
Field Activities	General Field Procedures Field Monitoring Data Sheet - 02/01/08 Groundwater Sampling Field Notes - 02/01/08 Statement of Non-Completion - 02/01/08
Laboratory Reports	Official Laboratory Reports Quality Control Reports Chain of Custody Records
Statements	Purge Water Disposal Limitations

**Summary of Gauging and Sampling Activities**  
**October 2007 through March 2008**  
**76 Station 7176**  
**7850 Amador Valley Boulevard**  
**Dublin, CA**

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

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

Date(s) of Gauging/Sampling Event: **02/01/08**

**Sample Points**

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

**Liquid Phase Hydrocarbons (LPH)**

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

**Hydrogeologic Parameters**

Depth to groundwater (below TOC):      Minimum: **14.28 feet**      Maximum: **16.52 feet**  
Average groundwater elevation (relative to available local datum): **341.39 feet**  
Average change in groundwater elevation since previous event: **1.33 feet**  
Interpreted groundwater gradient and flow direction:  
    Current event: **0.003 ft/ft, southeast**  
    Previous event: **0.003 ft/ft, southeast (07/03/07)**

**Selected Laboratory Results**

Wells with detected **Benzene**: **1**      Wells above MCL (1.0 µg/l): **0**  
    Maximum reported benzene concentration: **0.88 µg/l (U-1)**  
Wells with **TPH-G by GC/MS** **3**      Maximum: **3,100 µg/l (U-1)**  
Wells with **MTBE 8260B** **1**      Maximum: **1.1 µg/l (U-2)**

**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
IOC	=	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
ICA	=	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)	MTBE (8260B)	Comments
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)	MTBE (8260B)	Comments
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**  
**February 1, 2008**  
**76 Station 7176**

Date Sampled	TOC Elevation	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)	MTBE (8260B)	Comments
	(feet)	(feet)	(feet)	(feet)	(feet)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
<b>MW-4</b>	<b>(Screen Interval in feet: 10.0-25.0)</b>														
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	
<b>MW-5</b>	<b>(Screen Interval in feet: 10.0-25.0)</b>														
02/01/08	355.03	--	--	--	--	--	--	--	--	--	--	--	--	--	Paved over
<b>U-1</b>	<b>(Screen Interval in feet: 10.0-30.0)</b>														
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	
<b>U-2</b>	<b>(Screen Interval in feet: 10.0-30.0)</b>														
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	
<b>U-3</b>	<b>(Screen Interval in feet: 10.0-30.0)</b>														
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	



**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>							
02/01/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
<b>U-1</b>							
02/01/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
<b>U-2</b>							
02/01/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
<b>U-3</b>							
02/01/08	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 February 2008**  
**76 Station 7176**

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPH-D	TPH-G (8015M)	TPH-G (GC/MS)	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
	(feet)	(feet)	(feet)	(feet)	(feet)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
<b>MW-4</b>		<b>(Screen Interval in feet: 10.0-25.0)</b>													
	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	--	--	--	--	--	--	--	--
	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

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

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPH-D	TPH-G (8015M)	TPH-G (GC/MS)	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
	(feet)	(feet)	(feet)	(feet)	(feet)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
D	<b>MW-4 continued</b>														
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
	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

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**July 1995 Through February 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 (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	
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	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**July 1995 Through February 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>																
	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
<b>U-1</b>	<b>(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	--	
	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	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**July 1995 Through February 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>																
	01/04/99	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	--	--	--	--	--	--	--	--	
	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	

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

Date Sampled	TOC Elevation	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)	MTBE (8260B)	Comments
	(feet)	(feet)	(feet)	(feet)	(feet)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
<b>D U-1 continued</b>															
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	
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	
<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	--	--	

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

Date Sampled	TOC Elevation	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)	MTBE (8260B)	Comments
	(feet)	(feet)	(feet)	(feet)	(feet)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
<b>U-2 continued</b>															
	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	--
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	--	--	--	--	--	--	--	--



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

Date Sampled	TOC Elevation	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)	MTBE (8260B)	Comments	
	(feet)	(feet)	(feet)	(feet)	(feet)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)		
<b>U-2 continued</b>																
	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	
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	--	--	--	--	--	--	--	--	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**July 1995 Through February 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)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments	
<b>U-2 continued</b>																
	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	
<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	--	--	
	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	--	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**July 1995 Through February 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-3 continued</b>															
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	
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	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**July 1995 Through February 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)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>U-3 continued</b>															
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	

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 7176**

Date Sampled	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(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

**MW-5**  
7176

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 7176**

Date Sampled	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
<b>MW-5 continued</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
<b>U-1</b>							
04/05/99	ND	ND	ND	ND	ND	ND	ND
07/01/99	ND	ND	ND	ND	ND	ND	ND

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 7176**

Date Sampled	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
<b>U-1 continued</b>							
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
<b>U-2</b>							
04/05/99	ND	ND	ND	ND	ND	ND	ND
07/01/99	ND	ND	ND	ND	ND	ND	ND

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 7176**

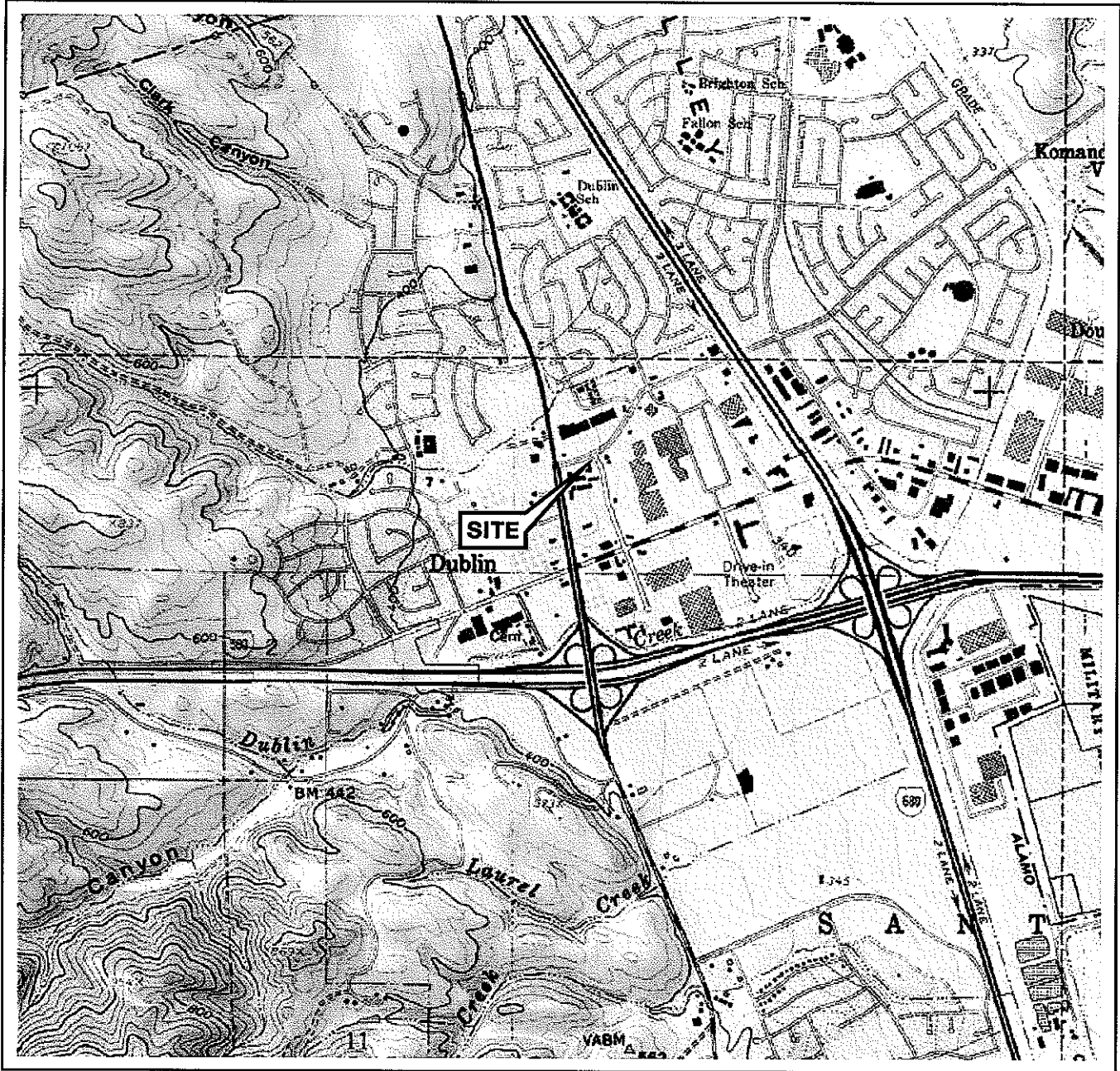
Date Sampled	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
<b>U-2 continued</b>							
09/30/99	ND	ND	ND	ND	ND	ND	ND
01/03/00	ND	ND	ND	ND	ND	ND	ND
04/04/00	ND	ND	ND	ND	ND	ND	ND
07/14/00	ND	ND	ND	ND	ND	ND	ND
10/27/00	ND	ND	ND	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
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
<b>U-3</b>							
04/05/99	ND	ND	ND	ND	ND	ND	ND
07/01/99	ND	ND	ND	ND	ND	ND	ND



**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 7176**

Date Sampled	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
<b>U-3 continued</b>							
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

# FIGURES



SOURCE:

United States Geological Survey  
7.5 Minute Topographic Map:  
Dublin Quadrangle

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



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)

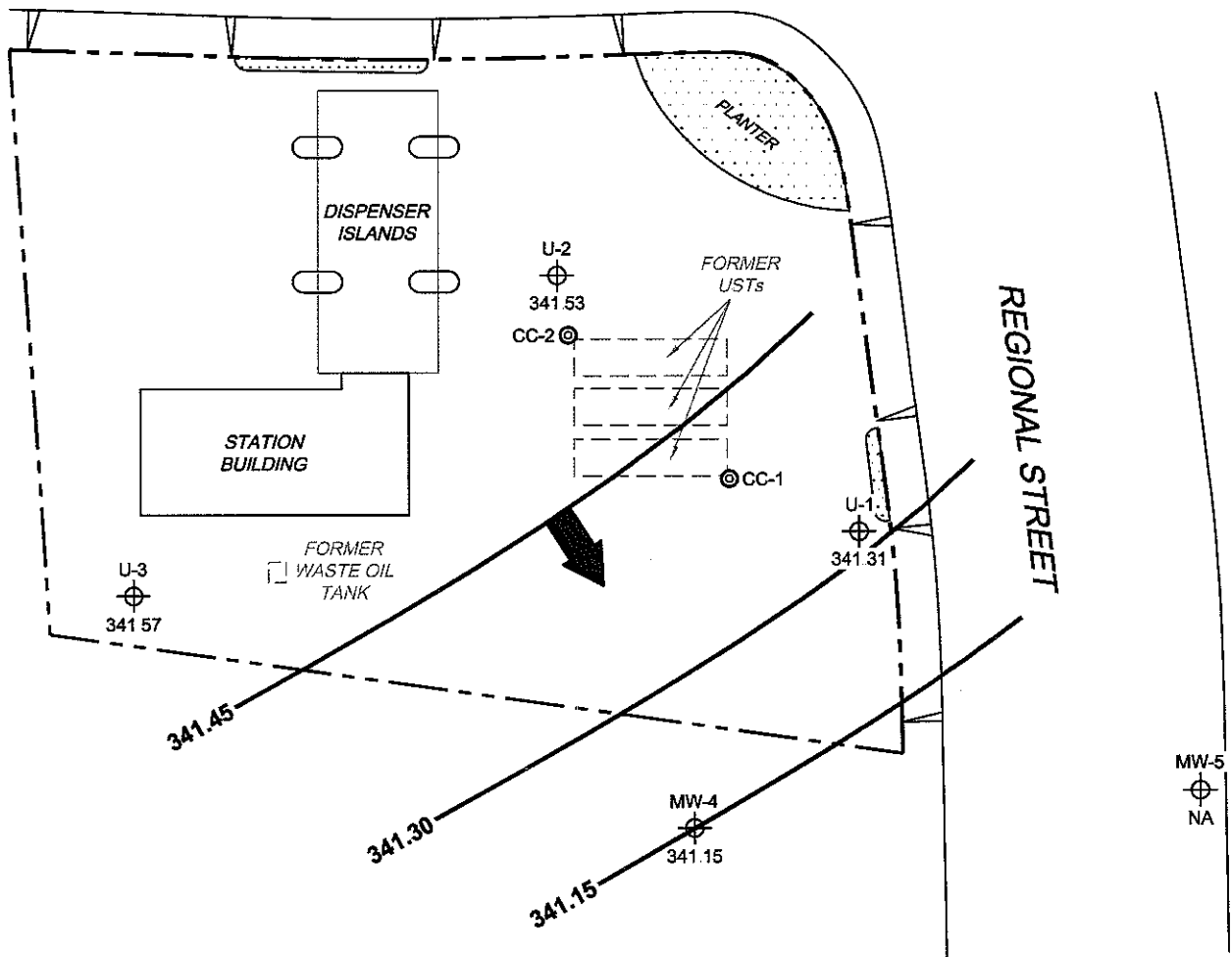
CC-2  Conductor Casing

341.45  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)



**GROUNDWATER ELEVATION  
CONTOUR MAP  
February 1, 2008**

**FIGURE 2**


L:\Graphics\QMS NORTH-SOUTH-7000\176-176-CMS(NEW).dwg Feb 22, 2008 - 1:10pm bschmidt

MS=1:1 7176-003

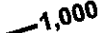


PROJECT: 154771  
FACILITY:  
76 STATION 7176  
7850 AMADOR VALLEY BOULEVARD  
DUBLIN, CALIFORNIA

**LEGEND**

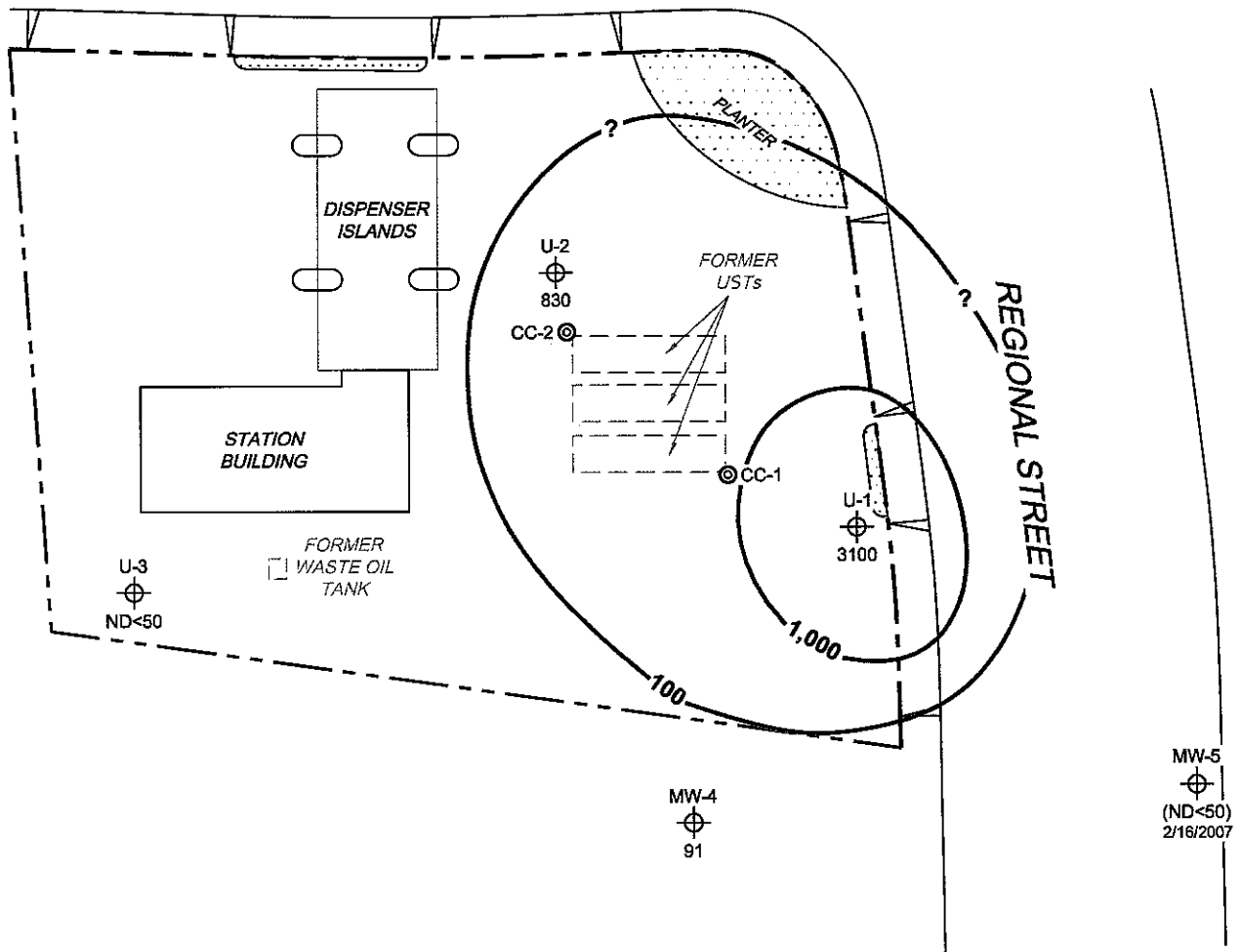
MW-5  Monitoring Well with Dissolved-Phase TPH-G (GC/MS) Concentration ( $\mu\text{g/l}$ )

CC-2  Conductor Casing

 -1,000 Dissolved-Phase TPH-G (GC/MS) Contour ( $\mu\text{g/l}$ )



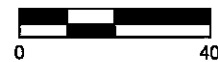
**AMADOR VALLEY BOULEVARD**



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

SCALE (FEET)



L:\Graphics\QMS NORTH-SOUTH\7176\7176-QMS(NEW).dwg Feb 22, 2008 - 1:18pm bschmidt

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  
 February 1, 2008**

**FIGURE 3**

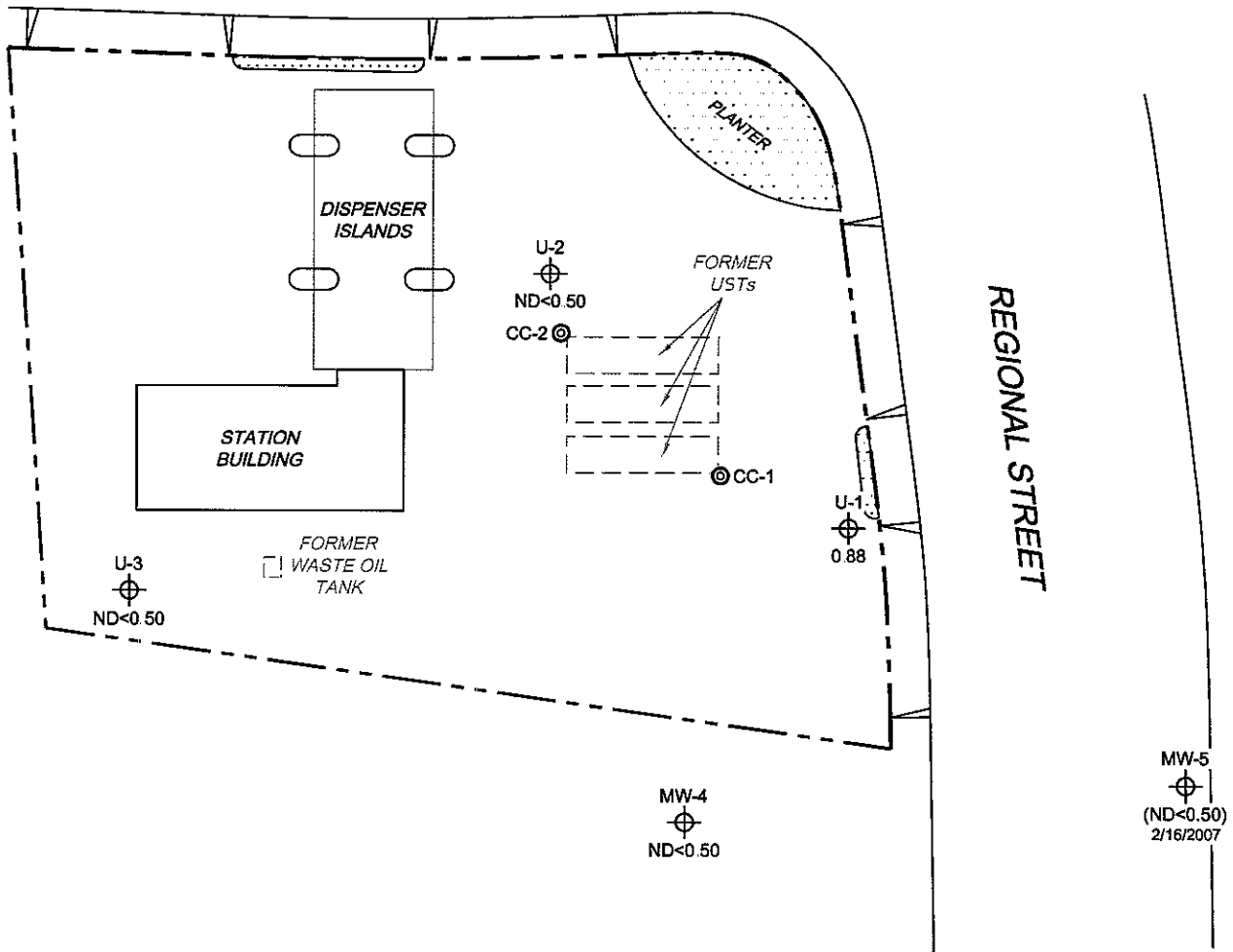
**LEGEND**

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

CC-2  Conductor Casing



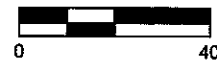
**AMADOR VALLEY BOULEVARD**



**NOTES:**

$\mu\text{g/l}$  = micrograms per liter. ND = not detected at limit indicated on official laboratory report.  
 ( ) = representative historical value UST = underground storage tank.

SCALE (FEET)



L:\Graphics\QMS NORTH-SOUTH\DX-7000\7176+D7176-QMS(NEW).dwg Feb 22, 2008 - 1:19pm bschmidt

MS=1:1 7176-003





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

**DISSOLVED-PHASE BENZENE  
 CONCENTRATION MAP**  
 February 1, 2008

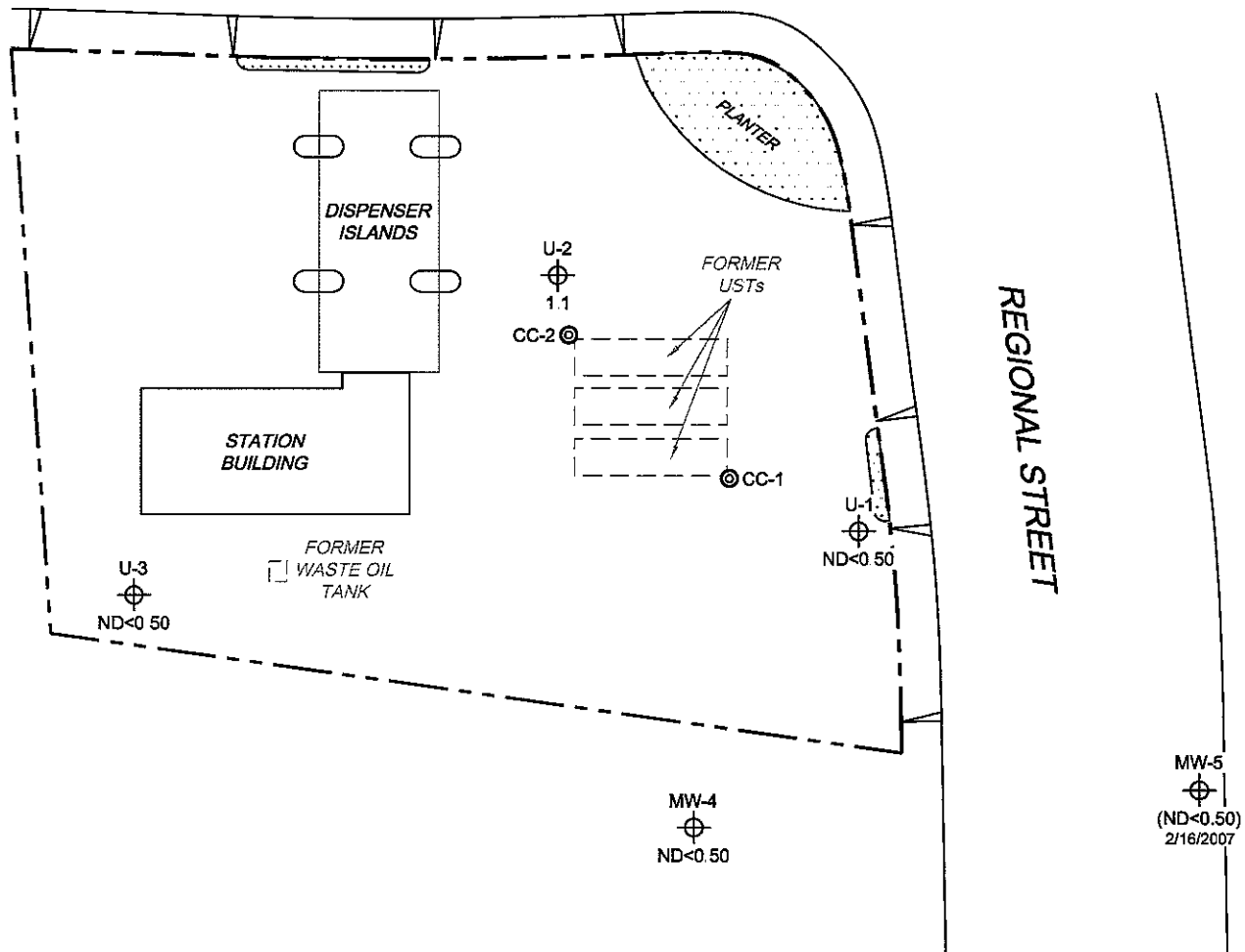
**FIGURE 4**

**LEGEND**

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

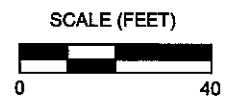


**AMADOR VALLEY BOULEVARD**



**NOTES:**

MTBE = methyl tertiary butyl ether.  $\mu\text{g/l}$  = micrograms per liter. ND = not detected at limit indicated on official laboratory report. ( ) = representative historical value. UST = underground storage tank. Results obtained using EPA Method 8260B.



MS=1:1 7-176-003 L:\Graphics\QMS NORTH-SOUTH\7176-003\7176-QMS(NEW).dwg Feb 22, 2008 - 1:20pm bschmidt




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

**DISSOLVED-PHASE MTBE  
 CONCENTRATION MAP**  
 February 1, 2008

**FIGURE 5**

**LEGEND**

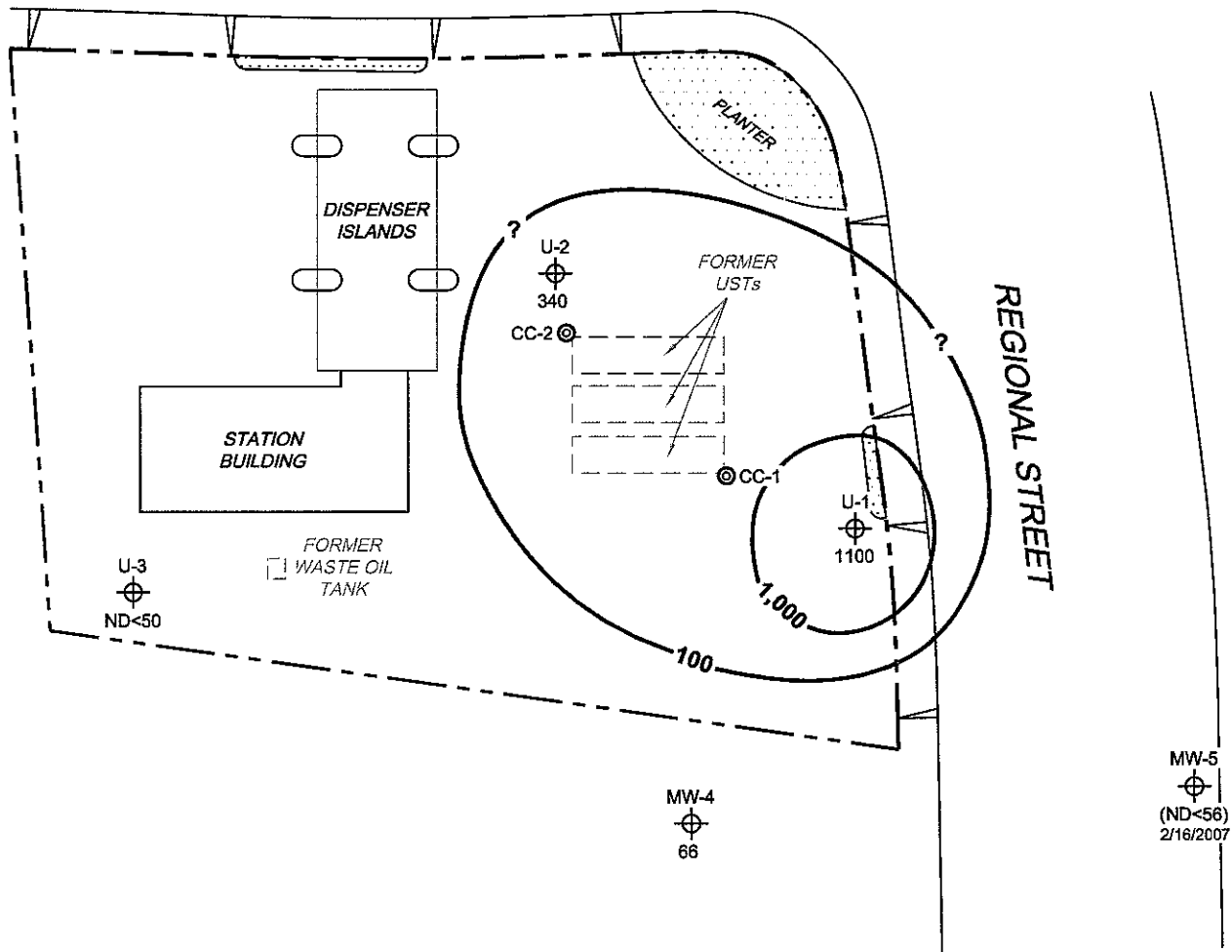
MW-5  Monitoring Well with Dissolved-Phase TPH-D Concentration ( $\mu\text{g/l}$ )

CC-2  Conductor Casing

 1,000 Dissolved-Phase TPH-D Contour ( $\mu\text{g/l}$ )



**AMADOR VALLEY BOULEVARD**



**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. ( ) = representative historical value. UST = underground storage tank. Results obtained using EPA Method 8015M.

SCALE (FEET)



L:\Graphics\QMS NORTH-SOUTH\7-176-QMS(NEW).dwg Feb 25, 2008 - 1:15pm bschmidt

MS=1:1 7-176-003



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

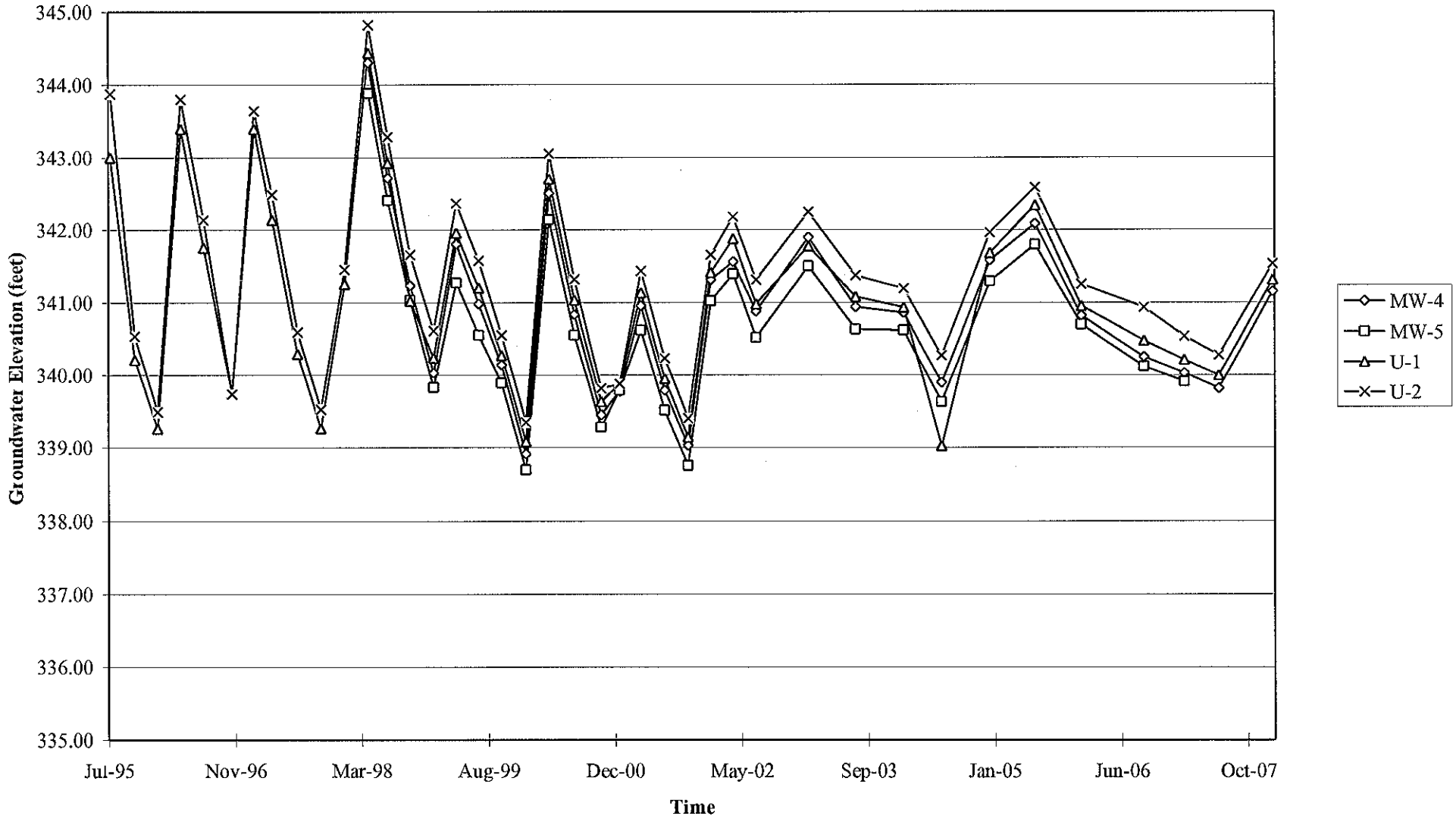
**DISSOLVED-PHASE TPH-D  
 CONCENTRATION MAP**  
 February 1, 2008

**FIGURE 6**



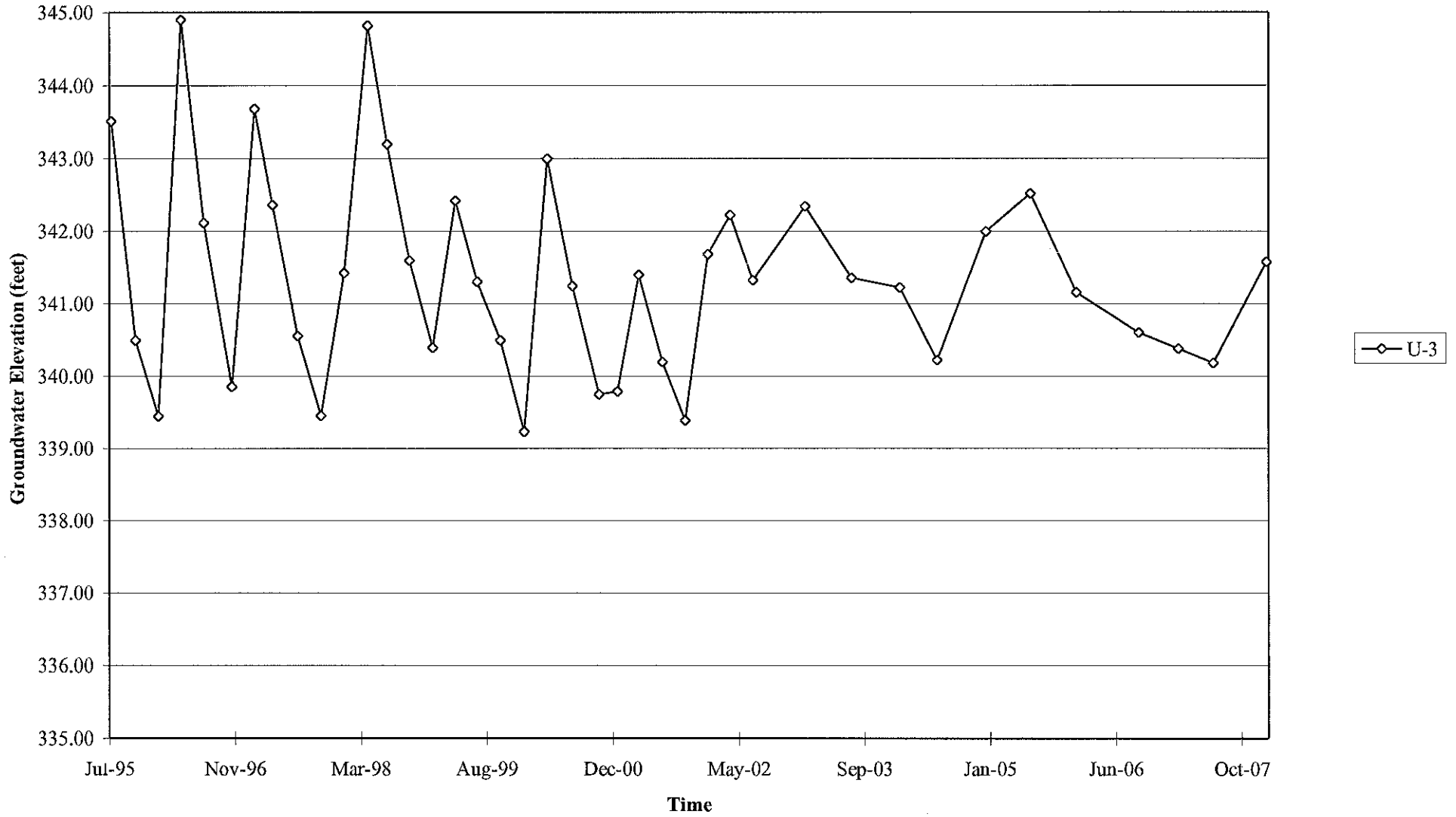
# GRAPHS

Groundwater Elevations vs. Time  
76 Station 7176



Elevations may have been corrected for apparent changes due to resurvey

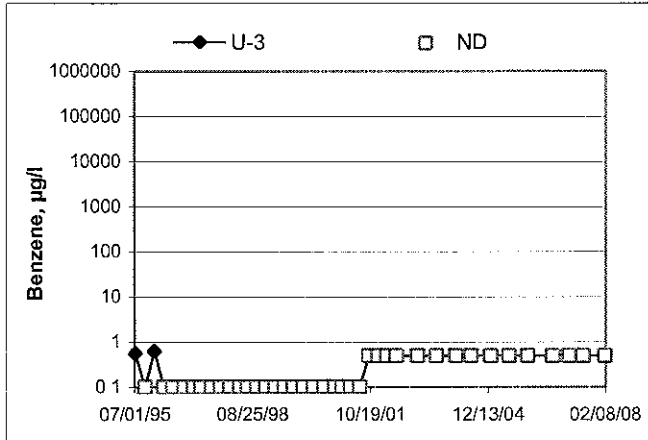
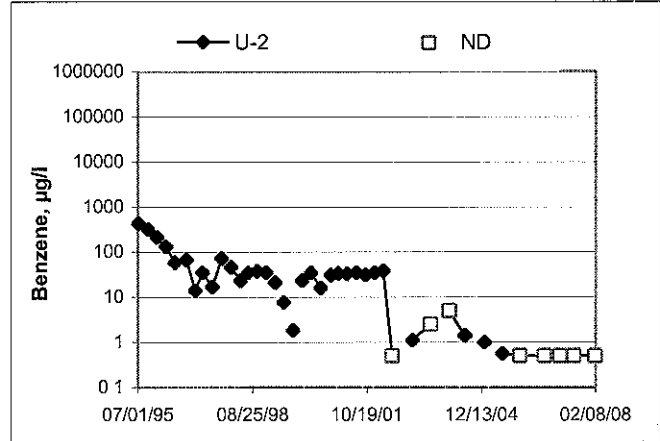
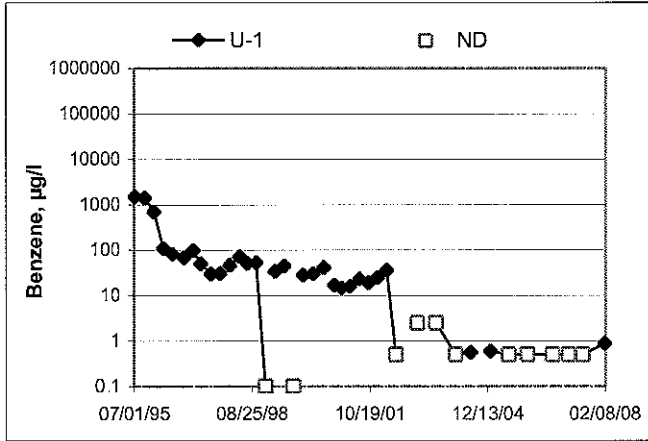
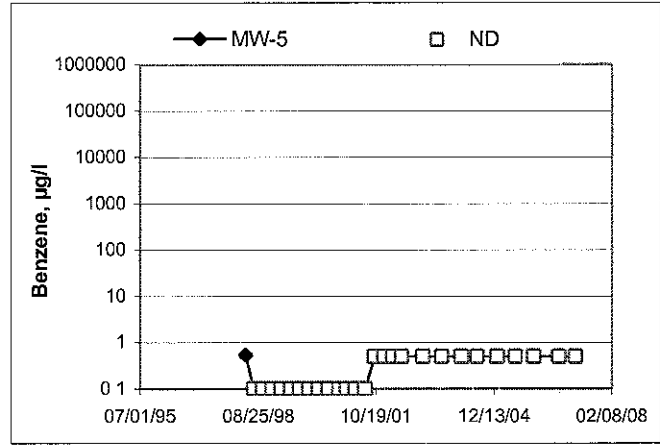
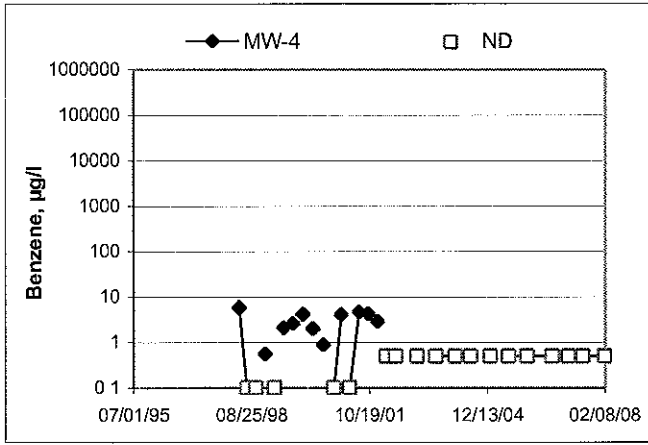
Groundwater Elevations vs. Time  
76 Station 7176



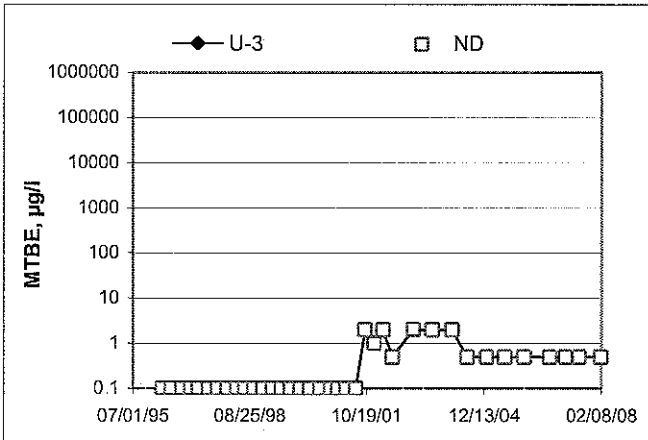
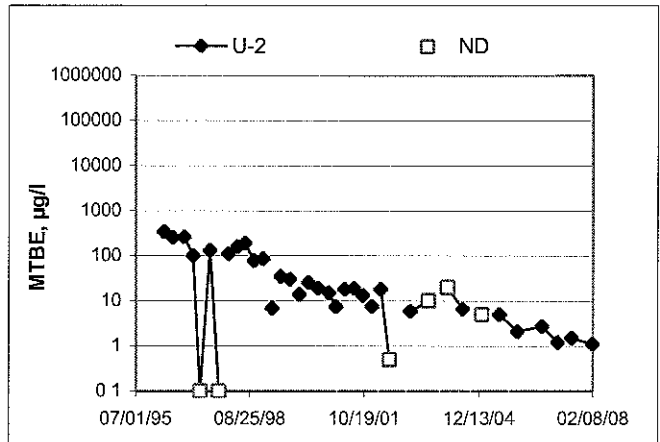
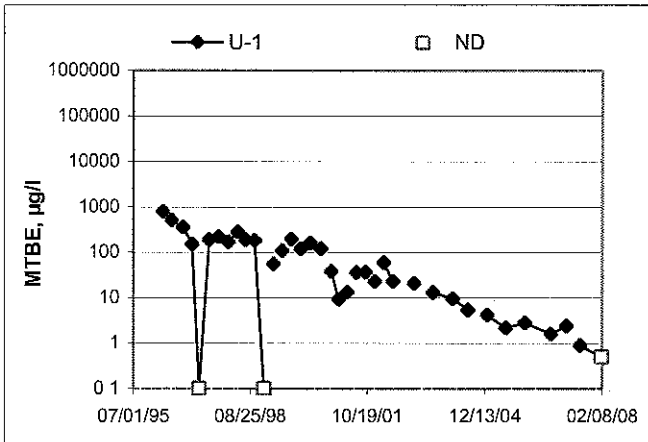
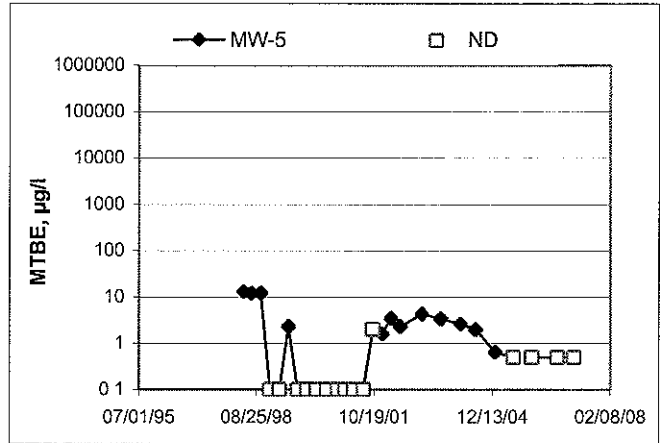
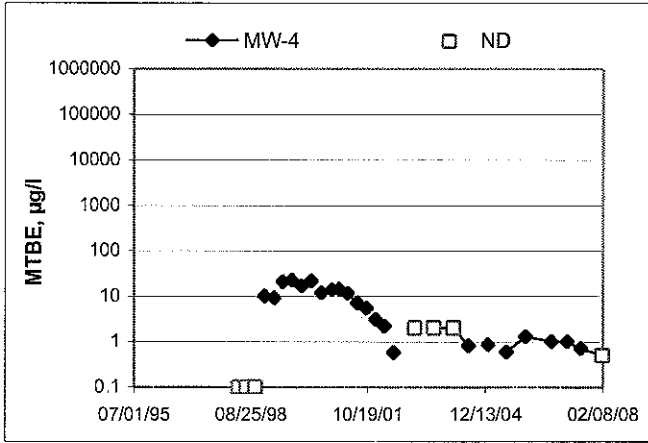
Elevations may have been corrected for apparent changes due to resurvey

# Benzene Concentrations vs Time

## 76 Station 7176



MTBE Concentrations vs Time  
76 Station 7176



## GENERAL FIELD PROCEDURES

### **Groundwater Monitoring and Sampling Assignments**

For each site, IRC 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 IRC'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. IRC commonly measures dissolved oxygen (DO), oxidation-reduction potential (ORP), and/or turbidity. Instruments used for groundwater parameter measurements are calibrated daily according to manufacturer's instructions.

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

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

## **Groundwater Sample Collection**

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

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

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

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

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

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

## **Decontamination**

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

## **Exceptions**

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

## FIELD MONITORING DATA SHEET

Technician: Juan

Job #/Task #: 154771

Date: 2/1/08

Site # 7176

Project Manager A. Collins

Page 1 of 1

Well #	Time Gauged	TOC	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
MW-5	—	—	—	—	—	—	—	Inaccessible
V-3	1012	X	28.26	16.52	—	—	1102	2"
MW-4	1018	X	25.17	15.26	—	—	1131	2"
V-1	1026	X	28.49	14.28	—	—	1159	2"
V-2	1032	X	25.28	15.02	—	—	1222	2"
FIELD DATA COMPLETE	QA/QC	COC	WELL BOX CONDITION SHEETS					
WTT CERTIFICATE	MANIFEST	DRUM INVENTORY	TRAFFIC CONTROL					



## GROUNDWATER SAMPLING FIELD NOTES

Technician: Juan

Site: 7176

Project No: 154771

Date: 2/1/08

Well No. U-3

Purge Method: Sub

Depth to Water (feet): 16.52

Depth to Product (feet): —

Total Depth (feet) 28.26

LPH & Water Recovered (gallons): —

Water Column (feet): 11.74

Casing Diameter (Inches): 2

80% Recharge Depth(feet): 18.86

1 Well Volume (gallons): 2

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F °C)	pH	D.O.	ORP	Turbidity
1052			2	1310	17.1	7.62			
			4	1307	18.2	7.38			
	1056		6	1302	19.1	7.28			
Static at Time Sampled			Total Gallons Purged		Sample Time				
16.58			6		1102				
Comments:									

Well No. MW-4

Purge Method: H/B

Depth to Water (feet): 15.26

Depth to Product (feet): —

Total Depth (feet) 25.17

LPH & Water Recovered (gallons): —

Water Column (feet): 9.91

Casing Diameter (Inches): 2

80% Recharge Depth(feet): 17.24

1 Well Volume (gallons): 1.5

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F °C)	pH	D.O.	ORP	Turbidity
1116			1.5	1331	17.3	7.32			
			3	1322	18.2	7.27			
	1123		4.5	1326	19.1	7.21			
Static at Time Sampled			Total Gallons Purged		Sample Time				
			4.5		1131				
Comments:									

# GROUNDWATER SAMPLING FIELD NOTES

Technician: Juan

Site: 7176

Project No: 154771

Date: 2/1/08

Well No. U-1

Purge Method: Sub

Depth to Water (feet): 14.28

Depth to Product (feet): —

Total Depth (feet): 28.49

LPH & Water Recovered (gallons): —

Water Column (feet): 14.21

Casing Diameter (Inches): 2

80% Recharge Depth(feet): 17.12

1 Well Volume (gallons): 2

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	D.O.	ORP	Turbidity
1149			2	1134	20.2	7.74			
			4	1151	20.3	7.41			
	1153		6	1168	20.6	7.51			
Static at Time Sampled			Total Gallons Purged		Sample Time				
14.30			6		1159				
Comments:									

Well No. U-2

Purge Method: Sub

Depth to Water (feet): 15.02

Depth to Product (feet): —

Total Depth (feet): 25.28

LPH & Water Recovered (gallons): —

Water Column (feet): 10.26

Casing Diameter (Inches): 2

80% Recharge Depth(feet): 17.07

1 Well Volume (gallons): 2

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	D.O.	ORP	Turbidity
1211			2	1238	19.7	7.15			
			4	1226	19.3	7.09			
	1215		6	1234	19.9	7.03			
Static at Time Sampled			Total Gallons Purged		Sample Time				
15.26			6		1222				
Comments:									

STATEMENT OF NON-COMPLETION OF JOB

DATE OF EVENT: 2/1/08 STATION NUMBER: 7176

NAME OF TECH: Juan CALLED GORDON: \_\_\_\_\_

CALLED PM:  NAME OF PM CALLED: A. Collins

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

Slurry over well. Inaccessible

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

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

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



LABORATORIES, INC.

Date of Report: 02/20/2008

Anju Farfan

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

RE: 7176  
BC Work Order: 0801508

Enclosed are the results of analyses for samples received by the laboratory on 02/04/2008 20:55. 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 Alton Geoscience  
 21 Technology Drive  
 Irvine, CA 92618-2302

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

Reported: 02/20/2008 16:06

### 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:
0801508-01	COC Number:	---		02/04/2008 20:55	02/01/2008 11:02	---	Water		T0600101883	W	CS	
	Project Number:	7176										
	Sampling Location:	U-3										
	Sampling Point:	U-3										
	Sampled By:	TRCI										
0801508-02	COC Number:	---		02/04/2008 20:55	02/01/2008 11:31	---	Water		T0600101883	W	CS	
	Project Number:	7176										
	Sampling Location:	MW-4										
	Sampling Point:	MW-4										
	Sampled By:	TRCI										
0801508-03	COC Number:	---		02/04/2008 20:55	02/01/2008 11:59	---	Water		T0600101883	W	CS	
	Project Number:	7176										
	Sampling Location:	U-1										
	Sampling Point:	U-1										
	Sampled By:	TRCI										
0801508-04	COC Number:	---		02/04/2008 20:55	02/01/2008 12:22	---	Water		T0600101883	W	CS	
	Project Number:	7176										
	Sampling Location:	U-2										
	Sampling Point:	U-2										
	Sampled By:	TRCI										

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

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

Reported: 02/20/2008 16:06

## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0801508-01	Client Sample Name: 7176, U-3, U-3, 2/1/2008 11:02:00AM
---------------------------	---

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	02/05/08	02/05/08 16:14	ANO	MS-V4	1	BRB0202	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	02/05/08	02/05/08 16:14	ANO	MS-V4	1	BRB0202	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	02/05/08	02/05/08 16:14	ANO	MS-V4	1	BRB0202	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	02/05/08	02/05/08 16:14	ANO	MS-V4	1	BRB0202	ND	
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	02/05/08	02/05/08 16:14	ANO	MS-V4	1	BRB0202	ND	
Toluene	ND	ug/L	0.50		EPA-8260	02/05/08	02/05/08 16:14	ANO	MS-V4	1	BRB0202	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	02/05/08	02/05/08 16:14	ANO	MS-V4	1	BRB0202	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	02/05/08	02/05/08 16:14	ANO	MS-V4	1	BRB0202	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	02/05/08	02/05/08 16:14	ANO	MS-V4	1	BRB0202	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	02/05/08	02/05/08 16:14	ANO	MS-V4	1	BRB0202	ND	
Ethanol	ND	ug/L	250		EPA-8260	02/05/08	02/05/08 16:14	ANO	MS-V4	1	BRB0202	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	02/05/08	02/05/08 16:14	ANO	MS-V4	1	BRB0202	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	02/05/08	02/05/08 16:14	ANO	MS-V4	1	BRB0202	ND	
1,2-Dichloroethane-d4 (Surrogate)	104	%	76 - 114 (LCL - UCL)		EPA-8260	02/05/08	02/05/08 16:14	ANO	MS-V4	1	BRB0202		
Toluene-d8 (Surrogate)	96.3	%	88 - 110 (LCL - UCL)		EPA-8260	02/05/08	02/05/08 16:14	ANO	MS-V4	1	BRB0202		
4-Bromofluorobenzene (Surrogate)	96.7	%	86 - 115 (LCL - UCL)		EPA-8260	02/05/08	02/05/08 16:14	ANO	MS-V4	1	BRB0202		



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

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

Reported: 02/20/2008 16:06

## Total Petroleum Hydrocarbons

BCL Sample ID: 0801508-01 Client Sample Name: 7176, U-3, U-3, 2/1/2008 11:02:00AM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	ND	ug/L	50		Luft/TPHd	02/06/08	02/11/08 20:37	PTL	GC-5	1	BRB0605	ND	
Tetracosane (Surrogate)	52.4	%	28 - 139 (LCL - UCL)		Luft/TPHd	02/06/08	02/11/08 20:37	PTL	GC-5	1	BRB0605		

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

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

Reported: 02/20/2008 16:06

## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0801508-02		Client Sample Name: 7176, MW-4, MW-4, 2/1/2008 11:31:00AM											
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	02/05/08	02/05/08 16:39	ANO	MS-V4	1	BRB0202	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	02/05/08	02/05/08 16:39	ANO	MS-V4	1	BRB0202	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	02/05/08	02/05/08 16:39	ANO	MS-V4	1	BRB0202	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	02/05/08	02/05/08 16:39	ANO	MS-V4	1	BRB0202	ND	
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	02/05/08	02/05/08 16:39	ANO	MS-V4	1	BRB0202	ND	
Toluene	ND	ug/L	0.50		EPA-8260	02/05/08	02/05/08 16:39	ANO	MS-V4	1	BRB0202	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	02/05/08	02/05/08 16:39	ANO	MS-V4	1	BRB0202	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	02/05/08	02/05/08 16:39	ANO	MS-V4	1	BRB0202	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	02/05/08	02/05/08 16:39	ANO	MS-V4	1	BRB0202	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	02/05/08	02/05/08 16:39	ANO	MS-V4	1	BRB0202	ND	
Ethanol	ND	ug/L	250		EPA-8260	02/05/08	02/05/08 16:39	ANO	MS-V4	1	BRB0202	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	02/05/08	02/05/08 16:39	ANO	MS-V4	1	BRB0202	ND	
Total Purgeable Petroleum Hydrocarbons	91	ug/L	50		EPA-8260	02/05/08	02/05/08 16:39	ANO	MS-V4	1	BRB0202	ND	
1,2-Dichloroethane-d4 (Surrogate)	102	%	76 - 114 (LCL - UCL)		EPA-8260	02/05/08	02/05/08 16:39	ANO	MS-V4	1	BRB0202		
Toluene-d8 (Surrogate)	96.4	%	88 - 110 (LCL - UCL)		EPA-8260	02/05/08	02/05/08 16:39	ANO	MS-V4	1	BRB0202		
4-Bromofluorobenzene (Surrogate)	97.3	%	86 - 115 (LCL - UCL)		EPA-8260	02/05/08	02/05/08 16:39	ANO	MS-V4	1	BRB0202		



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

Reported: 02/20/2008 16:06

## Total Petroleum Hydrocarbons

BCL Sample ID: 0801508-02	Client Sample Name: 7176, MW-4, MW-4, 2/1/2008 11:31:00AM
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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)	66	ug/L	50		Luf/TPHd	02/06/08	02/11/08 20:51	PTL	GC-5	1.031	BRB0605	ND	
Tetracosane (Surrogate)	66.2	%	28 - 139 (LCL - UCL)		Luf/TPHd	02/06/08	02/11/08 20:51	PTL	GC-5	1.031	BRB0605		

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 21 Technology Drive  
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 Project: 7176  
 Project Number: [none]  
 Project Manager: Anju Farfan

Reported: 02/20/2008 16:06

## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0801508-03		Client Sample Name: 7176, U-1, U-1, 2/1/2008 11:59:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	0.88	ug/L	0.50		EPA-8260	02/05/08	02/06/08 05:32	ANO	MS-V4	1	BRB0202	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	02/05/08	02/06/08 05:32	ANO	MS-V4	1	BRB0202	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	02/05/08	02/06/08 05:32	ANO	MS-V4	1	BRB0202	ND	
Ethylbenzene	1.6	ug/L	0.50		EPA-8260	02/05/08	02/06/08 05:32	ANO	MS-V4	1	BRB0202	ND	
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	02/05/08	02/06/08 05:32	ANO	MS-V4	1	BRB0202	ND	
Toluene	ND	ug/L	0.50		EPA-8260	02/05/08	02/06/08 05:32	ANO	MS-V4	1	BRB0202	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	02/05/08	02/06/08 05:32	ANO	MS-V4	1	BRB0202	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	02/05/08	02/06/08 05:32	ANO	MS-V4	1	BRB0202	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	02/05/08	02/06/08 05:32	ANO	MS-V4	1	BRB0202	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	02/05/08	02/06/08 05:32	ANO	MS-V4	1	BRB0202	ND	
Ethanol	ND	ug/L	250		EPA-8260	02/05/08	02/06/08 05:32	ANO	MS-V4	1	BRB0202	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	02/05/08	02/06/08 05:32	ANO	MS-V4	1	BRB0202	ND	
Total Purgeable Petroleum Hydrocarbons	3100	ug/L	50		EPA-8260	02/05/08	02/06/08 05:32	ANO	MS-V4	1	BRB0202	ND	S01
1,2-Dichloroethane-d4 (Surrogate)	106	%	76 - 114 (LCL - UCL)		EPA-8260	02/05/08	02/06/08 05:32	ANO	MS-V4	1	BRB0202		
Toluene-d8 (Surrogate)	105	%	88 - 110 (LCL - UCL)		EPA-8260	02/05/08	02/06/08 05:32	ANO	MS-V4	1	BRB0202		
4-Bromofluorobenzene (Surrogate)	106	%	86 - 115 (LCL - UCL)		EPA-8260	02/05/08	02/06/08 05:32	ANO	MS-V4	1	BRB0202		

TRC Alton Geoscience 21 Technology Drive Irvine, CA 92618-2302	Project: 7176 Project Number: [none] Project Manager: Anju Farfan	Reported: 02/20/2008 16:06
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## Total Petroleum Hydrocarbons

BCL Sample ID: 0801508-03	Client Sample Name: 7176, U-1, U-1, 2/1/2008 11:59:00AM													
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quais	
Diesel Range Organics (C12 - C24)	1100	ug/L	100		Luft/TPHd	02/06/08	02/12/08 18:30	PTL	GC-5	1.979	BRB0605	ND	A01	
Tetracosane (Surrogate)	57.2	%	28 - 139 (LCL - UCL)		Luft/TPHd	02/06/08	02/12/08 18:30	PTL	GC-5	1.979	BRB0605		A01	

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 21 Technology Drive  
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 Project: 7176  
 Project Number: [none]  
 Project Manager: Anju Farfan

Reported: 02/20/2008 16:06

## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0801508-04		Client Sample Name:	7176, U-2, U-2, 2/1/2008 12:22:00PM									
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	02/05/08	02/06/08 05:56	ANO	MS-V4	1	BRB0202	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	02/05/08	02/06/08 05:56	ANO	MS-V4	1	BRB0202	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	02/05/08	02/06/08 05:56	ANO	MS-V4	1	BRB0202	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	02/05/08	02/06/08 05:56	ANO	MS-V4	1	BRB0202	ND	
Methyl t-butyl ether	1.1	ug/L	0.50		EPA-8260	02/05/08	02/06/08 05:56	ANO	MS-V4	1	BRB0202	ND	
Toluene	ND	ug/L	0.50		EPA-8260	02/05/08	02/06/08 05:56	ANO	MS-V4	1	BRB0202	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	02/05/08	02/06/08 05:56	ANO	MS-V4	1	BRB0202	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	02/05/08	02/06/08 05:56	ANO	MS-V4	1	BRB0202	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	02/05/08	02/06/08 05:56	ANO	MS-V4	1	BRB0202	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	02/05/08	02/06/08 05:56	ANO	MS-V4	1	BRB0202	ND	
Ethanol	ND	ug/L	250		EPA-8260	02/05/08	02/06/08 05:56	ANO	MS-V4	1	BRB0202	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	02/05/08	02/06/08 05:56	ANO	MS-V4	1	BRB0202	ND	
Total Purgeable Petroleum Hydrocarbons	830	ug/L	50		EPA-8260	02/05/08	02/06/08 05:56	ANO	MS-V4	1	BRB0202	ND	
1,2-Dichloroethane-d4 (Surrogate)	95.8	%	76 - 114 (LCL - UCL)		EPA-8260	02/05/08	02/06/08 05:56	ANO	MS-V4	1	BRB0202		
Toluene-d8 (Surrogate)	101	%	88 - 110 (LCL - UCL)		EPA-8260	02/05/08	02/06/08 05:56	ANO	MS-V4	1	BRB0202		
4-Bromofluorobenzene (Surrogate)	104	%	86 - 115 (LCL - UCL)		EPA-8260	02/05/08	02/06/08 05:56	ANO	MS-V4	1	BRB0202		

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

Reported: 02/20/2008 16:06

## Total Petroleum Hydrocarbons

BCL Sample ID: 0801508-04	Client Sample Name: 7176, U-2, U-2, 2/1/2008 12:22:00PM
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Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	340	ug/L	50		Luft/TPHd	02/06/08	02/11/08 21:20	PTL	GC-5	1.031	BRB0605	ND	
Tetracosane (Surrogate)	26.6	%	28 - 139 (LCL - UCL)		Luft/TPHd	02/06/08	02/11/08 21:20	PTL	GC-5	1.031	BRB0605		S09

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

Reported: 02/20/2008 16:06

## Volatile Organic Analysis (EPA Method 8260)

### Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits	
										RPD	Percent Recovery Lab Quals
Benzene	BRB0202	Matrix Spike	0801509-02	0	22.950	25.000	ug/L		91.8		70 - 130
		Matrix Spike Duplicate	0801509-02	0	24.400	25.000	ug/L	6.1	97.6	20	70 - 130
Toluene	BRB0202	Matrix Spike	0801509-02	0.11000	23.520	25.000	ug/L		93.6		70 - 130
		Matrix Spike Duplicate	0801509-02	0.11000	24.940	25.000	ug/L	5.9	99.3	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	BRB0202	Matrix Spike	0801509-02	ND	9.9200	10.000	ug/L		99.2		76 - 114
		Matrix Spike Duplicate	0801509-02	ND	10.160	10.000	ug/L		102		76 - 114
Toluene-d8 (Surrogate)	BRB0202	Matrix Spike	0801509-02	ND	10.120	10.000	ug/L		101		88 - 110
		Matrix Spike Duplicate	0801509-02	ND	10.190	10.000	ug/L		102		88 - 110
4-Bromofluorobenzene (Surrogate)	BRB0202	Matrix Spike	0801509-02	ND	9.6100	10.000	ug/L		96.1		86 - 115
		Matrix Spike Duplicate	0801509-02	ND	9.9300	10.000	ug/L		99.3		86 - 115

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

Reported: 02/20/2008 16:06

## Total Petroleum Hydrocarbons

### Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits	
										RPD	Percent Recovery Lab Quals
Diesel Range Organics (C12 - C24)	BRB0605	Matrix Spike	0712930-44	0	583.41	500.00	ug/L		117		36 - 130
		Matrix Spike Duplicate	0712930-44	0	515.53	500.00	ug/L	12.7	103	30	36 - 130
Tetracosane (Surrogate)	BRB0605	Matrix Spike	0712930-44	ND	13.255	20.000	ug/L		66.3		28 - 139
		Matrix Spike Duplicate	0712930-44	ND	8.3930	20.000	ug/L		42.0		28 - 139

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

Reported: 02/20/2008 16:06

## Volatile Organic Analysis (EPA Method 8260)

### Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits		Lab Quals
										Percent Recovery	RPD	
Benzene	BRB0202	BRB0202-BS1	LCS	21.610	25.000	0.50	ug/L	86.4		70 - 130		
Toluene	BRB0202	BRB0202-BS1	LCS	22.400	25.000	0.50	ug/L	89.6		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BRB0202	BRB0202-BS1	LCS	9.7000	10.000		ug/L	97.0		76 - 114		
Toluene-d8 (Surrogate)	BRB0202	BRB0202-BS1	LCS	10.040	10.000		ug/L	100		88 - 110		
4-Bromofluorobenzene (Surrogate)	BRB0202	BRB0202-BS1	LCS	9.5500	10.000		ug/L	95.5		86 - 115		



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Project: 7176  
 Project Number: [none]  
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Reported: 02/20/2008 16:06

## Total Petroleum Hydrocarbons

### Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits		Lab Quals
										Percent Recovery	RPD	
Diesel Range Organics (C12 - C24)	BRB0605	BRB0605-BS1	LCS	462.34	500.00	50	ug/L	92.5		48 - 125		
Tetracosane (Surrogate)	BRB0605	BRB0605-BS1	LCS	12.430	20.000		ug/L	62.2		28 - 139		

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 Irvine, CA 92618-2302

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

Reported: 02/20/2008 16:06

## 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	BRB0202	BRB0202-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BRB0202	BRB0202-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BRB0202	BRB0202-BLK1	ND	ug/L	0.50		
Ethylbenzene	BRB0202	BRB0202-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BRB0202	BRB0202-BLK1	ND	ug/L	0.50		
Toluene	BRB0202	BRB0202-BLK1	ND	ug/L	0.50		
Total Xylenes	BRB0202	BRB0202-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BRB0202	BRB0202-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BRB0202	BRB0202-BLK1	ND	ug/L	10		
Diisopropyl ether	BRB0202	BRB0202-BLK1	ND	ug/L	0.50		
Ethanol	BRB0202	BRB0202-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BRB0202	BRB0202-BLK1	ND	ug/L	0.50		
Total Purgeable Petroleum Hydrocarbons	BRB0202	BRB0202-BLK1	ND	ug/L	50		
1,2-Dichloroethane-d4 (Surrogate)	BRB0202	BRB0202-BLK1	100	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BRB0202	BRB0202-BLK1	99.5	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BRB0202	BRB0202-BLK1	96.7	%	86 - 115 (LCL - UCL)		

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

Reported: 02/20/2008 16:06

## 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)	BRB0605	BRB0605-BLK1	ND	ug/L	50		
Tetracosane (Surrogate)	BRB0605	BRB0605-BLK1	78.9	%	28 - 139 (LCL - UCL)		



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

Reported: 02/20/2008 16:06

### 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.
- S01 Sample result is not within the quantitation range of the method.
- S09 The surrogate recovery on the sample for this compound was not within the control limits.

Submission #: 0801508

Project Code:

TB Batch #

SHIPPING INFORMATION

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

SHIPPING CONTAINER

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

Refrigerant: Ice  Blue Ice  None  Other  Comments:

Custody Seals: Ice Chest  Containers  None  Comments:

Intact? Yes  No  Intact? Yes  No

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

COC Received  
 YES  NO

Ice Chest ID RW  
 Temperature: 19 °C  
 Thermometer ID: 48

Emissivity .97  
 Container RTA

Date/Time 2/4/18  
2125  
 Analyst Init [Signature]

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

Comments: \_\_\_\_\_  
 Sample Numbering Completed By: JRW Date/Time: 2/4 2016

0801508

**BC LABORATORIES, INC.**

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

**CHAIN OF CUSTODY**

**Analysis Requested**

Bill to: Conoco Phillips/ TRC		Consultant Firm: TRC		MATRIX (GW) Ground-water (S) Soil (WW) Waste-water (SL) Sludge	BTEX/MTBE by 8021B, Gas by 8015	TPH GAS by 8015M	TPH DIESEL by 8015	8260 full list w/ oxygenates	BTEX/MTBE/OXYS BY 8260B	ETHANOL by 8260B	TPH - G by GC/MS	EDB/EDC by 8260B	Turnaround Time Requested
Address: 7850 Amador Valley Boulevard		21 Technology Drive Irvine, CA 92618-2302 Attn: Anju Farfan											
City: Dublin		4-digit site#: 7174											
State: CA Zip:		Project #: 154771											
Conoco Phillips Mgr: Bill Borgh		Sampler Name: Juan											

Lab#	Sample Description	Field Point Name	Date & Time Sampled										
	-1	U-3	2/1/08 1102	GW			X		X	X	X	X	STD
	-2	MW-4	1131										
	-3	U-1	1159										
	-4	U-2	1222										

CHK BY	DISTRIBUTION
<i>AK</i>	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	SUB-OUT <input type="checkbox"/>

Comments: Run TPH-D with Silica Gel cleanup on HHS GLOBAL ID: T0600101483	Relinquished by: (Signature)	Received by:	Date & Time
	<i>[Signature]</i>	<i>Rofridgerated</i>	2/1/08 1340
	Relinquished by: (Signature)	Received by:	Date & Time
<i>[Signature]</i>	<i>Ross Wickley</i>	2/4/08 1345	
Relinquished by: (Signature)	Received by:	Date & Time	
<i>Ross Wickley 2/4/08</i>	<i>Riley</i>	2-4-08 1245	

*Riley 2-4-08 2055* *[Signature] 2-4-8 2055*

## **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.