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1:55 pm, Apr 01, 2009

Alameda County  
Environmental Health

DATE: April 15, 2008

TO: ConocoPhillips Company  
76 Broadway  
Sacramento, CA 95818

ATTN: MR. BILL BORGH

SITE: 76 STATION 5325  
3220 LAKESHORE AVENUE  
OAKLAND, CALIFORNIA

RE: QUARTERLY MONITORING REPORT  
JANUARY THROUGH MARCH 2008

Dear Mr. Borgh:

Please find enclosed our Quarterly Monitoring Report for 76 Station 5325, located at 3220 Lakeshore Avenue, Oakland, 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. Daniel Davis, Delta Consultants (2 copies)

Enclosures  
20-0400/5325R19 QMS

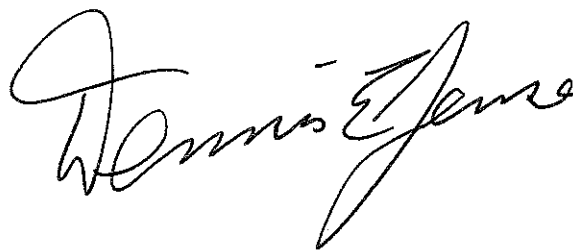
**QUARTERLY MONITORING REPORT  
JANUARY THROUGH MARCH 2008**

76 STATION 5325  
3200 Lakeshore Avenue  
Oakland, California

Prepared For:

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

By:



Senior Project Geologist, Irvine Operations

Date: 4/15/08



## 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 Table 2b: 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
Graphs	Groundwater Elevations vs. Time Benzene Concentrations vs. Time
Field Activities	General Field Procedures Field Monitoring Data Sheet – 03/26/08 Groundwater Sampling Field Notes – 03/26/08
Laboratory Reports	Official Laboratory Reports Quality Control Reports Chain of Custody Records
Statements	Purge Water Disposal Limitations

**Summary of Gauging and Sampling Activities**  
**January 2008 through March 2008**  
**76 Station 5325**  
**3220 Lakeshore Avenue**  
**Oakland, CA**

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

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

Date(s) of Gauging/Sampling Event: **03/26/08**

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**Sample Points**

Groundwater wells: **5** onsite, **1** offsite      Points gauged: **6**      Points sampled: **6**  
Purging method: **Diaphragm pump**  
Purge water disposal: **Onyx/Rodeo Unit 100**  
Other Sample Points: **0**      Type: **n/a**

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**Liquid Phase Hydrocarbons (LPH)**

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

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**Hydrogeologic Parameters**

Depth to groundwater (below TOC):      Minimum: **5.62 feet**      Maximum: **10.84 feet**  
Average groundwater elevation (relative to available local datum): **1.20 feet**  
Average change in groundwater elevation since previous event: **0.35 feet**  
Interpreted groundwater gradient and flow direction:  
    Current event: **0.03 ft/ft, northwest**  
    Previous event: **0.02 ft/ft, northwest (12/27/07)**

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**Selected Laboratory Results**

Sample Points with detected **Benzene**: **1**      Sample Points above MCL (1.0 µg/l): **1**  
    Maximum reported benzene concentration: **45 µg/l (U-2)**

Sample Points with **TPH-G by GC/MS** **3**      Maximum: **4,300 µg/l (U-2)**  
Sample Points with **MTBE 8260B** **4**      Maximum: **580 µg/l (U-2)**

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**Notes:**

# TABLES

## TABLE KEY

### STANDARD ABBREVIATIONS

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

### ANALYTES

BTEX	=	benzene, toluene, ethylbenzene, and (total) xylenes
DIPE	=	di-isopropyl ether
ETBE	=	ethyl tertiary butyl ether
MTBE	=	methyl tertiary butyl ether
PCB	=	polychlorinated biphenyls
PCE	=	tetrachloroethene
TBA	=	tertiary butyl alcohol
TCA	=	trichloroethane
ICE	=	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 76 Station 5325 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 5325

### Current Event

Table 1	Well/ Date	Depth to Water	LPH Thickness	Ground- water Elevation	Change in Elevation	TPH-G (8015M)	TPH-G (GC/MS)	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
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Table 1a	Well/ Date	Ethanol (8260B)	Iron Ferrous	Nitrate	Phosphate (ortho)	Pre-purge Dissolved Oxygen	Pre-purge ORP
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### Historic Data

Table 2	Well/ Date	Depth to Water	LPH Thickness	Ground- water Elevation	Change in Elevation	TPH-G (8015M)	TPH-G (GC/MS)	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
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Table 2a	Well/ Date	TBA	Ethanol (8260B)	Ethylene- dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	Acenaph- thylene	Iron Ferrous	Nitrate	Phosphate (ortho)	Phosphate (total)	Redox Potential (ORP-Lab)	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen
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Table 2b	Well/ Date	Pre-purge ORP	Post-purge ORP
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**Table 1**  
**CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**March 26, 2008**  
**76 Station 5325**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>U-1</b>	<b>(Screen Interval in feet: 5.0-20.0)</b>													
03/26/08	8.46	7.84	0.00	0.62	0.28	--	3500	ND<2.5	ND<2.5	100	18	--	30	
<b>U-2</b>	<b>(Screen Interval in feet: 5.0-20.0)</b>													
03/26/08	7.62	5.62	0.00	2.00	0.18	--	4300	45	ND<2.5	210	77	--	580	
<b>U-3</b>	<b>(Screen Interval in feet: 5.0-20.0)</b>													
03/26/08	10.98	10.84	0.00	0.14	0.09	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
<b>U-4</b>	<b>(Screen Interval in feet: 5.0-20.0)</b>													
03/26/08	11.15	7.86	0.00	3.29	0.77	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
<b>U-5</b>	<b>(Screen Interval in feet: 5.0-20.0)</b>													
03/26/08	6.98	6.41	0.00	0.57	0.36	--	310	ND<0.50	0.64	1.3	1.0	--	27	
<b>U-6</b>	<b>(Screen Interval in feet: 5.0-24.0)</b>													
03/26/08	7.14	6.56	0.00	0.58	0.40	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.3	



**Table 1 a**  
**ADDITIONAL CURRENT ANALYTICAL RESULTS**  
**76 Station 5325**

Date Sampled	Ethanol (8260B)	Iron Ferrou:	Nitrate	Phosphate (ortho)	Pre-purge Dissolved Oxygen	Pre-purge ORP
	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(mg/l)	(mV)
<b>U-1</b> 03/26/08	ND<1200	23000	ND<0.10	0.12	3.41	-63
<b>U-2</b> 03/26/08	ND<1200	11000	ND<0.10	ND<0.050	3.41	-65
<b>U-3</b> 03/26/08	ND<250	190	5.1	0.64	1.32	97
<b>U-4</b> 03/26/08	ND<250	160	5.6	0.38	2.87	97
<b>U-5</b> 03/26/08	ND<250	10000	ND<0.20	ND<0.050	2.32	-9
<b>U-6</b> 03/26/08	ND<250	19000	ND<0.10	1.2	2.74	115

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**August 1990 Through March 2008**  
**76 Station 5325**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>U-1 (Screen Interval in feet: 5.0-20.0)</b>														
08/10/90	--	--	--	--	--	690	--	38	75	8.6	130	--	--	
01/07/91	--	--	--	--	--	250	--	22	16	4.2	17	--	--	
04/01/91	--	--	--	--	--	160	--	13	8.6	1.0	15	--	--	
07/03/91	--	--	--	--	--	140	--	21	4.3	0.36	17	--	--	
10/09/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
02/12/92	--	--	--	--	--	250	--	ND	ND	ND	ND	--	--	
05/05/92	--	--	--	--	--	230	--	1.2	ND	ND	ND	--	--	
06/11/92	--	--	--	--	--	1000	--	80	1.4	6.7	41	--	--	
08/20/92	--	--	--	--	--	400	--	1.0	ND	ND	0.6	--	--	
02/22/93	--	--	--	--	--	34000	--	1400	5500	910	7300	--	--	
05/07/93	--	--	--	--	--	8700	--	600	240	650	3300	--	--	
08/08/93	--	--	--	--	--	4900	--	79	ND	832	270	--	--	
11/16/93	5.32	8.61	0.00	-3.29	--	690	--	ND	ND	ND	ND	--	--	
02/16/94	5.32	8.54	0.00	-3.22	0.07	6800	--	ND	ND	ND	ND	--	--	
06/22/94	8.46	8.39	0.00	0.07	3.29	200	--	ND	ND	5.9	21	--	--	
09/22/94	8.46	8.66	0.00	-0.20	-0.27	6100	--	ND	ND	ND	ND	--	--	
12/24/94	8.46	8.04	0.00	0.42	0.62	50000	--	2500	9700	2400	17000	--	--	
03/25/95	8.46	7.72	0.37	1.02	0.60	--	--	--	--	--	--	--	--	Not sampled due to LPH in well
06/21/95	8.46	9.30	0.20	-0.69	-1.71	--	--	--	--	--	--	--	--	Not sampled due to LPH in well
09/19/95	8.46	9.29	0.40	-0.53	0.16	--	--	--	--	--	--	--	--	Not sampled due to LPH in well
12/19/95	8.46	8.98	0.03	-0.50	0.03	--	--	--	--	--	--	--	--	Not sampled due to LPH in well

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**August 1990 Through March 2008**  
**76 Station 5325**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>U-1 continued</b>														
03/18/96	8.46	8.25	0.00	0.21	0.71	27000	--	ND	2300	1400	11000	4900	--	
06/27/96	8.46	7.92	0.00	0.54	0.33	120000	--	540	4300	2600	26000	ND	--	
09/26/96	8.46	9.10	0.02	-0.63	-1.17	--	--	--	--	--	--	--	--	Not sampled due to LPH in well
12/09/96	8.46	6.88	0.03	1.60	2.23	--	--	--	--	--	--	--	--	Not sampled due to LPH in well
03/14/97	8.46	9.02	0.55	-0.15	-1.75	--	--	--	--	--	--	--	--	Not sampled due to LPH in well
06/30/97	8.46	8.41	0.02	0.07	0.21	--	--	--	--	--	--	--	--	Not sampled due to LPH in well
09/19/97	8.46	8.56	0.02	-0.09	-0.15	--	--	--	--	--	--	--	--	Not sampled due to LPH in well
12/12/97	8.46	8.58	0.01	-0.11	-0.03	--	--	--	--	--	--	--	--	Not sampled due to LPH in well
03/03/98	8.46	8.23	0.04	0.26	0.37	--	--	--	--	--	--	--	--	Not sampled due to LPH in well
06/15/98	8.46	8.37	0.00	0.09	-0.17	52000	--	ND	900	1800	13000	ND	--	Sheen
09/30/98	8.46	8.94	0.00	-0.48	-0.57	1000000	--	ND	2600	13000	83000	4800	--	Sheen
12/28/98	8.46	8.57	0.00	-0.11	0.37	1100000	--	ND	1600	8600	71000	5700	--	
03/22/99	8.46	8.18	0.00	0.28	0.39	130000	--	470	1100	2000	28000	5700	--	Sheen
06/09/99	8.46	9.37	0.00	-0.91	-1.19	40000	--	230	640	590	13000	3500	2100	
09/08/99	8.46	9.53	0.00	-1.07	-0.16	55000	--	217	202	745	14300	6890	6690	
12/07/99	8.46	9.67	0.00	-1.21	-0.14	41200	--	89.3	ND	385	6930	15800	14700	
03/13/00	8.46	8.44	0.00	0.02	1.23	48000	--	490	610	2400	10000	22000	23000	
06/21/00	8.46	9.45	0.00	-0.99	-1.01	37000	--	200	ND	1200	7200	15000	20000	
09/27/00	8.46	9.29	0.00	-0.83	0.16	15000	--	92	ND	540	2800	74000	83000	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**August 1990 Through March 2008**  
**76 Station 5325**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>U-1 continued</b>														
12/12/00	8.46	9.37	0.00	-0.91	-0.08	50000	--	ND	ND	250	1900	12000	15000	
03/07/01	8.46	8.45	0.00	0.01	0.92	6220	--	29.8	10.4	96.3	638	11200	11800	
06/06/01	8.46	9.29	0.00	-0.83	-0.84	5200	--	17	ND	69	420	6500	8700	
09/24/01	8.46	9.39	0.00	-0.93	-0.10	4300	--	36	ND<25	65	590	4400	4400	
12/10/01	8.46	9.17	0.00	-0.71	0.22	11000	--	220	ND<100	380	1500	5100	5100	
03/11/02	8.46	9.44	0.00	-0.98	-0.27	5500	--	28	ND<20	360	690	6400	6300	
06/04/02	8.46	8.32	0.00	0.14	1.12	4600	--	31	ND<10	240	180	6500	--	
09/03/02	8.46	9.36	0.00	-0.90	-1.04	2300	--	ND<12	ND<12	ND<12	68	3500	4700	
12/03/02	8.46	8.18	0.00	0.28	1.18	--	ND<5000	ND<50	ND<50	ND<50	<100	--	4700	
03/04/03	8.46	8.29	0.00	0.17	-0.11	--	8900	26	ND<25	400	130	--	5500	
06/18/03	8.46	7.58	0.00	0.88	0.71	--	8300	ND<25	ND<25	ND<25	ND<50	--	10000	
09/24/03	8.46	8.18	0.00	0.28	-0.60	--	ND<10000	ND<100	ND<100	ND<100	ND<200	--	11000	
12/02/03	8.46	8.90	0.00	-0.44	-0.72	--	ND<10000	ND<100	ND<100	ND<100	ND<200	--	11000	
03/30/04	8.46	8.38	0.00	0.08	0.52	--	12000	ND<100	ND<100	190	ND<200	--	13000	
06/07/04	8.46	10.35	0.00	-1.89	-1.97	--	13000	ND<100	ND<100	ND<100	ND<200	--	12000	
09/09/04	8.46	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
12/20/04	8.46	9.00	0.00	-0.54	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	8.2	
03/28/05	8.46	8.10	0.00	0.36	0.90	--	37000	ND<10	ND<10	1500	5300	--	460	
06/14/05	8.46	8.91	0.00	-0.45	-0.81	--	3900	ND<0.50	ND<0.50	48	68	--	60	
09/28/05	8.46	11.35	0.00	-2.89	-2.44	--	560	ND<0.50	0.60	3.0	26	--	18	
12/29/05	8.46	8.58	0.00	-0.12	2.77	--	510	0.77	ND<0.50	27	63	--	62	
03/27/06	8.46	7.20	0.00	1.26	1.38	--	29000	ND<25	ND<25	1500	4900	--	300	
06/12/06	8.46	7.81	0.00	0.65	-0.61	--	3200	ND<0.50	ND<0.50	42	15	--	56	
09/21/06	8.46	8.04	0.00	0.42	-0.23	--	2600	ND<12	ND<12	ND<12	ND<12	--	30	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**August 1990 Through March 2008**  
**76 Station 5325**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>U-1 continued</b>														
12/21/06	8.46	8.32	0.00	0.14	-0.28	--	2000	ND<0.50	ND<0.50	13	2.2	--	53	
03/28/07	8.46	6.17	0.00	2.29	2.15	--	12000	ND<2.5	ND<2.5	690	1900	--	110	
06/27/07	8.46	5.39	0.00	3.07	0.78	--	13000	2.8	ND<2.5	960	1300	--	79	
09/26/07	8.46	5.32	0.00	3.14	0.07	--	6900	2.6	ND<2.5	310	680	--	44	
12/27/07	8.46	8.12	0.00	0.34	-2.80	--	5900	ND<2.5	ND<2.5	290	130	--	42	
03/26/08	8.46	7.84	0.00	0.62	0.28	--	3500	ND<2.5	ND<2.5	100	18	--	30	
<b>U-2 (Screen Interval in feet: 5.0-20.0)</b>														
08/10/90	--	--	--	--	--	780	--	27	46	15	130	--	--	
01/07/91	--	--	--	--	--	1900	--	67	5.8	58	69	--	--	
04/01/91	--	--	--	--	--	1700	--	250	89	34	190	--	--	
07/03/91	--	--	--	--	--	2100	--	150	25	3.1	290	--	--	
10/09/91	--	--	--	--	--	230	--	7.1	ND	ND	11	--	--	
02/12/92	--	--	--	--	--	410	--	1.9	ND	0.36	0.4	--	--	
05/05/92	--	--	--	--	--	1600	--	120	52	6.2	290	--	--	
06/11/92	--	--	--	--	--	620	--	17	2.1	ND	37	--	--	
08/20/92	--	--	--	--	--	700	--	28	6.5	1.3	4.6	--	--	
02/22/93	--	--	--	--	--	3400	--	2400	2100	1200	5800	--	--	
05/07/93	--	--	--	--	--	17000	--	1800	660	1700	4000	--	--	
08/08/93	--	--	--	--	--	5600	--	420	ND	410	670	--	--	
11/16/93	4.53	8.17	0.00	-3.64	--	510	--	ND	ND	ND	ND	--	--	
02/16/94	4.53	7.73	0.00	-3.20	0.44	980	--	49	13	2.7	40	--	--	
06/22/94	7.62	7.60	0.00	0.02	3.22	31000	--	2200	62	1500	3500	--	--	
09/22/94	7.62	7.93	0.00	-0.31	-0.33	8500	--	29	ND	ND	ND	--	--	
12/24/94	7.62	7.27	0.00	0.35	0.66	32000	--	1500	890	1300	5000	--	--	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**August 1990 Through March 2008**  
**76 Station 5325**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>U-2 continued</b>														
03/25/95	7.62	7.01	0.00	0.61	0.26	170000	--	1900	21000	4800	33000	--	--	
06/21/95	7.62	6.98	0.00	0.64	0.03	16000	--	2100	ND	1800	1700	--	--	
09/19/95	7.62	7.70	0.00	-0.08	-0.72	3000	--	610	ND	78	240	--	--	
12/19/95	7.62	7.30	0.00	0.32	0.40	1600	--	140	55	52	270	--	--	
03/18/96	7.62	6.45	0.00	1.17	0.85	12000	--	2200	ND	1200	2200	22000	--	
06/27/96	7.62	7.41	0.00	0.21	-0.96	28000	--	3400	ND	2800	3100	3000	--	
09/26/96	7.62	7.90	0.00	-0.28	-0.49	5900	--	750	ND	ND	ND	18000	--	
12/09/96	7.62	6.76	0.00	0.86	1.14	13000	--	5100	290	980	370	2700	--	
03/14/97	7.62	7.12	0.03	0.52	-0.34	--	--	--	--	--	--	--	--	Not sampled due to LPH in well
06/30/97	7.62	6.19	0.00	1.43	0.91	--	--	--	--	--	--	--	--	Not sampled due to LPH in well
09/19/97	7.62	7.31	0.00	0.31	-1.12	--	--	--	--	--	--	--	--	Not sampled due to LPH in well
12/12/97	7.62	6.75	0.00	0.87	0.56	--	--	--	--	--	--	--	--	Not sampled due to LPH in well
03/03/98	7.62	6.36	0.00	1.26	0.39	80000	--	3000	1100	820	16000	16000	--	Sheen
06/15/98	7.62	6.51	0.00	1.11	-0.15	48000	--	1800	330	470	7900	20000	--	Sheen
09/30/98	7.62	7.17	0.00	0.45	-0.66	60000	--	1300	ND	500	9700	19000	--	Sheen
12/28/98	7.62	7.06	0.00	0.56	0.11	63000	--	590	160	320	5600	16000	--	
03/22/99	7.62	6.82	0.00	0.80	0.24	28000	--	1100	ND	360	2900	25000	--	
06/09/99	7.62	7.51	0.00	0.11	-0.69	21000	--	110	190	310	2600	7900	7800	
09/08/99	7.62	8.16	0.00	-0.54	-0.65	23300	--	477	138	286	4110	16400	15300	
12/07/99	7.62	8.31	0.00	-0.69	-0.15	4840	--	17.2	ND	ND	157	14900	15600	
03/13/00	7.62	6.69	0.00	0.93	1.62	11000	--	380	160	ND	2100	22000	26000	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**August 1990 Through March 2008**  
**76 Station 5325**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>U-2 continued</b>														
06/21/00	7.62	7.67	0.00	-0.05	-0.98	9100	--	22	ND	ND	800	16000	22000	
09/27/00	7.62	7.44	0.00	0.18	0.23	2900	--	43	ND	ND	39	20000	26000	
12/12/00	7.62	7.51	0.00	0.11	-0.07	3600	--	17	ND	ND	87	8000	7800	
03/07/01	7.62	7.15	0.00	0.47	0.36	1670	--	51.0	ND	7.20	19.5	5930	7900	
06/06/01	7.62	7.57	0.00	0.05	-0.42	1100	--	14	ND	9.3	35	9200	10000	
09/24/01	7.62	7.63	0.00	-0.01	-0.06	1000	--	25	ND<2.5	12	100	9800	11000	
12/10/01	7.62	6.78	0.00	0.84	0.85	83	--	14	0.55	3.4	6.8	2500	2500	
03/11/02	7.62	7.12	0.00	0.50	-0.34	ND<1000	--	28	ND<10	40	31	11000	11000	
06/04/02	7.62	7.18	0.00	0.44	-0.06	7700	--	32	ND<25	33	48	14000	--	
09/03/02	7.62	7.58	0.00	0.04	-0.40	5200	--	ND<25	ND<25	ND<25	ND<25	11000	15000	
12/03/02	7.62	7.68	0.00	-0.06	-0.10	--	ND<5000	ND<50	ND<50	ND<50	ND<100	--	3200	
03/04/03	7.62	7.77	0.00	-0.15	-0.09	--	8100	ND<50	ND<50	ND<50	ND<100	--	7800	
06/18/03	7.62	6.87	0.00	0.75	0.90	--	11000	ND<50	ND<50	ND<50	ND<100	--	16000	
09/24/03	7.62	7.49	0.00	0.13	-0.62	--	ND<10000	ND<100	ND<100	ND<100	ND<200	--	10000	
12/02/03	7.62	7.95	0.00	-0.33	-0.46	--	ND<10000	ND<100	ND<100	ND<100	ND<200	--	10000	
03/30/04	7.62	7.07	0.00	0.55	0.88	--	12000	ND<100	ND<100	ND<100	ND<200	--	11000	
06/07/04	7.62	7.75	0.00	-0.13	-0.68	--	14000	ND<100	ND<100	ND<100	ND<200	--	13000	
09/09/04	7.62	8.65	0.00	-1.03	-0.90	--	ND<10000	ND<100	ND<100	ND<100	ND<200	--	9500	
12/20/04	7.62	7.73	0.00	-0.11	0.92	--	ND<5000	ND<50	ND<50	ND<50	ND<100	--	11000	
03/28/05	7.62	6.24	0.00	1.38	1.49	--	12000	ND<50	ND<50	160	120	--	7000	
06/14/05	7.62	7.05	0.00	0.57	-0.81	--	2000	0.75	ND<0.50	3.7	1.1	--	2400	
09/28/05	7.62	8.00	0.00	-0.38	-0.95	--	320	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	80	
12/29/05	7.62	7.23	0.00	0.39	0.77	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	35	
03/27/06	7.62	5.31	0.00	2.31	1.92	--	2400	31	0.73	120	15	--	1400	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**August 1990 Through March 2008**  
**76 Station 5325**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>U-2 continued</b>														
06/12/06	7.62	6.25	0.00	1.37	-0.94	--	ND<1200	ND<12	ND<12	17	ND<25	--	490	
09/21/06	7.62	6.00	0.00	1.62	0.25	--	440	6.1	ND<0.50	1.7	ND<0.50	--	1100	
12/21/06	7.62	6.08	0.00	1.54	-0.08	--	670	10	ND<0.50	52	1.2	--	730	
03/28/07	7.62	5.05	0.00	2.57	1.03	--	3300	36	ND<5.0	200	6.8	--	1200	
06/27/07	7.62	4.80	0.00	2.82	0.25	--	5100	94	ND<5.0	640	7.1	--	1100	
09/26/07	7.62	4.73	0.00	2.89	0.07	--	3900	54	ND<5.0	240	240	--	670	
12/27/07	7.62	5.80	0.00	1.82	-1.07	--	2200	21	ND<5.0	77	16	--	470	
03/26/08	7.62	5.62	0.00	2.00	0.18	--	4300	45	ND<2.5	210	77	--	580	
<b>U-3 (Screen Interval in feet: 5.0-20.0)</b>														
08/10/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
01/07/91	--	--	--	--	--	ND	--	ND	ND	ND	1.8	--	--	
04/01/91	--	--	--	--	--	ND	--	1.0	2.9	0.53	5.4	--	--	
07/03/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
10/09/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
02/12/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
05/05/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
06/11/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
08/20/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
02/22/93	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
05/07/93	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
08/08/93	--	--	--	--	--	210	--	5.0	9.7	0.7	4.1	--	--	
11/16/93	7.86	11.82	0.00	-3.96	--	ND	--	ND	ND	ND	ND	--	--	
02/16/94	7.86	11.62	0.00	-3.76	0.20	ND	--	ND	ND	ND	ND	--	--	
06/22/94	10.98	11.64	0.00	-0.66	3.10	ND	--	ND	ND	ND	ND	--	--	



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**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**August 1990 Through March 2008**  
**76 Station 5325**

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPH-G (8015M)	TPH-G (GC/MS)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
<b>U-3 continued</b>														
09/22/94	10.98	11.76	0.00	-0.78	-0.12	ND	--	ND	ND	ND	ND	--	--	
12/24/94	10.98	11.28	0.00	-0.30	0.48	ND	--	ND	ND	ND	ND	--	--	
03/25/95	10.98	10.96	0.00	0.02	0.32	ND	--	ND	ND	ND	ND	--	--	
06/21/95	10.98	11.37	0.00	-0.39	-0.41	ND	--	ND	ND	ND	ND	--	--	
09/19/95	10.98	11.55	0.00	-0.57	-0.18	ND	--	ND	ND	ND	ND	--	--	
12/19/95	10.98	11.45	0.00	-0.47	0.10	ND	--	ND	ND	ND	ND	--	--	
03/18/96	10.98	11.10	0.00	-0.12	0.35	ND	--	ND	ND	ND	ND	--	--	
06/27/96	10.98	11.16	0.00	-0.18	-0.06	440	--	49	50	51	140	50	--	
09/26/96	10.98	11.55	0.00	-0.57	-0.39	ND	--	ND	ND	ND	ND	ND	--	
12/09/96	10.98	10.12	0.00	0.86	1.43	ND	--	ND	ND	ND	ND	29	--	
03/14/97	10.98	10.87	0.00	0.11	-0.75	ND	--	ND	ND	ND	ND	ND	--	
06/30/97	10.98	11.08	0.00	-0.10	-0.21	ND	--	ND	ND	ND	ND	ND	--	
09/19/97	10.98	11.05	0.00	-0.07	0.03	ND	--	ND	ND	ND	ND	ND	--	
12/12/97	10.98	10.58	0.00	0.40	0.47	ND	--	ND	ND	ND	ND	ND	--	
03/03/98	10.98	9.84	0.00	1.14	0.74	ND	--	ND	ND	ND	ND	ND	--	
06/15/98	10.98	10.56	0.00	0.42	-0.72	ND	--	ND	ND	ND	ND	ND	--	
09/30/98	10.98	11.12	0.00	-0.14	-0.56	ND	--	ND	ND	ND	ND	ND	--	
12/28/98	10.98	10.96	0.00	0.02	0.16	ND	--	ND	ND	ND	ND	ND	--	
03/22/99	10.98	9.46	0.00	1.52	1.50	ND	--	ND	ND	ND	ND	ND	--	
06/09/99	10.98	11.01	0.00	-0.03	-1.55	ND	--	ND	ND	ND	ND	ND	--	
09/08/99	10.98	11.31	0.00	-0.33	-0.30	ND	--	ND	ND	ND	ND	ND	--	
12/07/99	10.98	11.26	0.00	-0.28	0.05	ND	--	ND	ND	ND	ND	ND	--	
03/13/00	10.98	8.28	0.00	2.70	2.98	ND	--	ND	ND	ND	ND	ND	--	
06/21/00	10.98	11.12	0.00	-0.14	-2.84	ND	--	ND	ND	ND	ND	ND	--	

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**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**August 1990 Through March 2008**  
**76 Station 5325**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>U-3 continued</b>														
09/27/00	10.98	11.07	0.00	-0.09	0.05	ND	--	ND	ND	ND	ND	ND	--	
12/12/00	10.98	10.94	0.00	0.04	0.13	ND	--	ND	ND	ND	ND	ND	--	
03/07/01	10.98	8.32	0.00	2.66	2.62	ND	--	ND	ND	ND	ND	ND	--	
06/06/01	10.98	10.94	0.00	0.04	-2.62	ND	--	ND	ND	ND	ND	ND	--	
09/24/01	10.98	11.03	0.00	-0.05	-0.09	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
12/10/01	10.98	8.16	0.00	2.82	2.87	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
03/11/02	10.98	7.82	0.00	3.16	0.34	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
06/04/02	10.98	10.58	0.00	0.40	-2.76	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
09/03/02	10.98	10.94	0.00	0.04	-0.36	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
12/03/02	10.98	10.66	0.00	0.32	0.28	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
03/04/03	10.98	10.76	0.00	0.22	-0.10	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
06/18/03	10.98	10.26	0.00	0.72	0.50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
09/24/03	10.98	10.88	0.00	0.10	-0.62	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
12/02/03	10.98	11.00	0.00	-0.02	-0.12	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
03/30/04	10.98	10.64	0.00	0.34	0.36	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
06/07/04	10.98	11.00	0.00	-0.02	-0.36	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
09/09/04	10.98	11.31	0.00	-0.33	-0.31	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/20/04	10.98	10.79	0.00	0.19	0.52	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
03/28/05	10.98	9.80	0.00	1.18	0.99	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
06/14/05	10.98	10.75	0.00	0.23	-0.95	--	ND<50	ND<0.50	ND<0.50	ND<0.50	1.2	--	ND<0.50	
09/28/05	10.98	11.16	0.00	-0.18	-0.41	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/29/05	10.98	10.41	0.00	0.57	0.75	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
03/27/06	10.98	10.16	0.00	0.82	0.25	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
06/12/06	10.98	9.94	0.00	1.04	0.22	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**August 1990 Through March 2008**  
**76 Station 5325**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>U-3 continued</b>														
09/21/06	10.98	11.01	0.00	-0.03	-1.07	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
12/21/06	10.98	10.92	0.00	0.06	0.09	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
03/28/07	10.98	10.84	0.00	0.14	0.08	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
06/27/07	10.98	10.93	0.00	0.05	-0.09	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
09/26/07	10.98	11.01	0.00	-0.03	-0.08	--	770	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	18	
12/27/07	10.98	10.93	0.00	0.05	0.08	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.63	
03/26/08	10.98	10.84	0.00	0.14	0.09	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
<b>U-4 (Screen Interval in feet: 5.0-20.0)</b>														
06/22/94	11.15	10.16	0.00	0.99	--	ND	--	ND	ND	ND	ND	--	--	
09/22/94	11.15	10.79	0.00	0.36	-0.63	ND	--	0.78	1.3	ND	1.4	--	--	
12/24/94	11.15	9.81	0.00	1.34	0.98	ND	--	ND	ND	ND	ND	--	--	
03/25/95	11.15	9.51	0.00	1.64	0.30	ND	--	ND	ND	ND	ND	--	--	
06/21/95	11.15	9.54	0.00	1.61	-0.03	ND	--	ND	ND	ND	ND	--	--	
09/19/95	11.15	10.17	0.00	0.98	-0.63	ND	--	ND	ND	ND	ND	--	--	
12/19/95	11.15	9.98	0.00	1.17	0.19	ND	--	ND	ND	ND	ND	--	--	
03/18/96	11.15	9.66	0.00	1.49	0.32	ND	--	ND	ND	ND	ND	--	--	
06/27/96	11.15	9.74	0.00	1.41	-0.08	ND	--	ND	ND	ND	ND	ND	--	
09/26/96	11.15	10.14	0.00	1.01	-0.40	ND	--	ND	ND	ND	ND	ND	--	
12/09/96	11.15	8.67	0.00	2.48	1.47	ND	--	ND	ND	ND	ND	33	--	
03/14/97	11.15	9.35	0.00	1.80	-0.68	ND	--	ND	ND	ND	ND	ND	--	
06/30/97	11.15	9.89	0.00	1.26	-0.54	ND	--	ND	ND	ND	ND	ND	--	
09/19/97	11.15	9.96	0.00	1.19	-0.07	ND	--	ND	ND	ND	ND	ND	--	
12/12/97	11.15	8.56	0.00	2.59	1.40	ND	--	ND	ND	ND	ND	ND	--	
03/03/98	11.15	7.85	0.00	3.30	0.71	ND	--	ND	ND	ND	ND	ND	--	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**August 1990 Through March 2008**  
**76 Station 5325**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>U-4 continued</b>														
06/15/98	11.15	9.08	0.00	2.07	-1.23	ND	--	ND	ND	ND	ND	ND	--	
09/30/98	11.15	9.75	0.00	1.40	-0.67	ND	--	ND	ND	ND	ND	ND	--	
12/28/98	11.15	9.59	0.00	1.56	0.16	ND	--	ND	ND	ND	ND	ND	--	
03/22/99	11.15	8.34	0.00	2.81	1.25	ND	--	ND	ND	ND	ND	ND	--	
06/09/99	11.15	9.39	0.00	1.76	-1.05	ND	--	ND	ND	ND	ND	ND	--	
09/08/99	11.15	9.90	0.00	1.25	-0.51	ND	--	ND	ND	ND	ND	ND	--	
12/07/99	11.15	10.05	0.00	1.10	-0.15	ND	--	ND	ND	ND	ND	ND	--	
03/13/00	11.15	7.24	0.00	3.91	2.81	ND	--	ND	ND	ND	ND	ND	--	
06/21/00	11.15	9.48	0.00	1.67	-2.24	ND	--	ND	ND	ND	ND	ND	--	
09/27/00	11.15	9.42	0.00	1.73	0.06	ND	--	ND	ND	ND	ND	ND	--	
12/12/00	11.15	9.50	0.00	1.65	-0.08	ND	--	ND	ND	ND	ND	ND	--	
03/07/01	11.15	6.88	0.00	4.27	2.62	ND	--	ND	ND	ND	ND	ND	--	
06/06/01	11.15	9.18	0.00	1.97	-2.30	ND	--	ND	ND	ND	ND	ND	--	
09/24/01	11.15	9.21	0.00	1.94	-0.03	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
12/10/01	11.15	7.32	0.00	3.83	1.89	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
03/11/02	11.15	6.92	0.00	4.23	0.40	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
06/04/02	11.15	7.58	0.00	3.57	-0.66	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
09/03/02	11.15	9.17	0.00	1.98	-1.59	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
12/03/02	11.15	9.20	0.00	1.95	-0.03	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
03/04/03	11.15	9.32	0.00	1.83	-0.12	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
06/18/03	11.15	7.65	0.00	3.50	1.67	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
09/24/03	11.15	8.26	0.00	2.89	-0.61	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
12/02/03	11.15	9.16	0.00	1.99	-0.90	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
03/30/04	11.15	7.47	0.00	3.68	1.69	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**August 1990 Through March 2008**  
**76 Station 5325**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>U-4 continued</b>														
06/07/04	11.15	8.93	0.00	2.22	-1.46	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
09/09/04	11.15	9.83	0.00	1.32	-0.90	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/20/04	11.15	8.28	0.00	2.87	1.55	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
03/28/05	11.15	6.35	0.00	4.80	1.93	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
06/14/05	11.15	8.10	0.00	3.05	-1.75	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
09/28/05	11.15	9.59	0.00	1.56	-1.49	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/29/05	11.15	7.13	0.00	4.02	2.46	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
03/27/06	11.15	6.27	0.00	4.88	0.86	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
06/12/06	11.15	8.45	0.00	2.70	-2.18	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
09/21/06	11.15	9.63	0.00	1.52	-1.18	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
12/21/06	11.15	8.50	0.00	2.65	1.13	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
03/28/07	11.15	8.00	0.00	3.15	0.50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
06/27/07	11.15	8.78	0.00	2.37	-0.78	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
09/26/07	11.15	9.08	0.00	2.07	-0.30	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
12/27/07	11.15	8.63	0.00	2.52	0.45	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
03/26/08	11.15	7.86	0.00	3.29	0.77	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
<b>U-5 (Screen Interval in feet: 5.0-20.0)</b>														
06/22/94	6.98	6.83	0.00	0.15	--	210	--	7.1	13	4.5	26	--	--	
09/22/94	6.98	6.90	0.00	0.08	-0.07	170	--	8.4	10	8.5	18	--	--	
12/24/94	6.98	6.43	0.00	0.55	0.47	8700	--	560	70	670	430	--	--	
03/25/95	6.98	6.35	0.00	0.63	0.08	44000	--	390	960	1500	7600	--	--	
06/21/95	6.98	7.11	0.00	-0.13	-0.76	400	--	2.3	ND	9.1	3.5	--	--	
09/19/95	6.98	6.99	0.00	-0.01	0.12	850	--	14	7.1	13	66	--	--	
12/19/95	6.98	7.17	0.00	-0.19	-0.18	ND	--	ND	ND	ND	ND	--	--	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**August 1990 Through March 2008**  
**76 Station 5325**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>U-5 continued</b>														
03/18/96	6.98	6.65	0.00	0.33	0.52	100	--	0.67	0.5	0.51	5.4	--	--	
06/27/96	6.98	6.49	0.00	0.49	0.16	16000	--	280	150	1400	4600	530	--	
09/26/96	6.98	7.13	0.00	-0.15	-0.64	ND	--	ND	0.57	ND	0.96	ND	--	
12/09/96	6.98	5.90	0.00	1.08	1.23	1300	--	29	46	ND	140	97	--	
03/14/97	6.98	6.99	0.00	-0.01	-1.09	ND	--	ND	ND	ND	ND	14	--	
06/30/97	6.98	7.08	0.00	-0.10	-0.09	4200	--	74	51	180	980	270	--	
09/19/97	6.98	6.78	0.00	0.20	0.30	6300	--	160	13	370	1000	480	--	
12/12/97	6.98	6.94	0.00	0.04	-0.16	60	--	1.3	ND	1.6	2.1	47	--	
03/03/98	6.98	6.50	0.00	0.48	0.44	1700	--	29	ND	150	190	330	--	
06/15/98	6.98	6.85	0.00	0.13	-0.35	1500	--	32	ND	91	83	330	--	
09/30/98	6.98	7.31	0.00	-0.33	-0.46	1700	--	44	ND	39	150	60	--	
12/28/98	6.98	7.25	0.00	-0.27	0.06	1400	--	59	ND	13	27	150	--	
03/22/99	6.98	6.86	0.00	0.12	0.39	780	--	8.9	ND	0.76	4.5	350	--	
06/09/99	6.98	7.28	0.00	-0.30	-0.42	1000	--	ND	ND	10	35	280	350	
09/08/99	6.98	7.52	0.00	-0.54	-0.24	2620	--	26.2	ND	32.2	157	280	239	
12/07/99	6.98	7.67	0.00	-0.69	-0.15	949	--	9.26	ND	11.2	22.7	235	301	
03/13/00	6.98	6.73	0.00	0.25	0.94	880	--	12	1.0	5.6	8.7	46	37	
06/21/00	6.98	7.39	0.00	-0.41	-0.66	700	--	4.0	ND	0.99	4.0	120	140	
09/27/00	6.98	7.45	0.00	-0.47	-0.06	400	--	1.9	ND	ND	1.5	160	250	
12/12/00	6.98	7.68	0.00	-0.70	-0.23	770	--	3.2	ND	ND	ND	27	13	
03/07/01	6.98	6.83	0.00	0.15	0.85	623	--	5.15	ND	ND	0.669	35.7	43.4	
06/06/01	6.98	7.42	0.00	-0.44	-0.59	110	--	ND	ND	ND	ND	ND	--	
09/24/01	6.98	7.50	0.00	-0.52	-0.08	270	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	40	42	
12/10/01	6.98	6.65	0.00	0.33	0.85	420	--	13	0.60	0.66	ND<0.50	ND<2.5	--	

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**August 1990 Through March 2008**  
**76 Station 5325**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>U-5 continued</b>														
03/11/02	6.98	7.00	0.00	-0.02	-0.35	260	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	42	47	
06/04/02	6.98	6.71	0.00	0.27	0.29	170	--	ND<0.50	0.77	0.87	0.69	29	--	
09/03/02	6.98	7.47	0.00	-0.49	-0.76	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	37	53	
12/03/02	6.98	6.64	0.00	0.34	0.83	--	320	ND<0.50	ND<0.50	5.7	ND<1.0	--	11	
03/04/03	6.98	6.75	0.00	0.23	-0.11	--	100	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	44	
06/18/03	6.98	6.25	0.00	0.73	0.50	--	51	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	36	
09/24/03	6.98	6.86	0.00	0.12	-0.61	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
12/02/03	6.98	7.12	0.00	-0.14	-0.26	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	24	
03/30/04	6.98	6.88	0.00	0.10	0.24	--	100	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	130	
06/07/04	6.98	8.53	0.00	-1.55	-1.65	--	250	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	160	
09/09/04	6.98	12.28	0.00	-5.30	-3.75	--	340	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	260	
12/20/04	6.98	7.51	0.00	-0.53	4.77	--	130	ND<0.50	ND<0.50	1.9	2.0	--	120	
03/28/05	6.98	7.22	0.00	-0.24	0.29	--	670	ND<2.0	ND<2.0	ND<2.0	ND<4.0	--	230	
06/14/05	6.98	7.46	0.00	-0.48	-0.24	--	160	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	400	
09/28/05	6.98	9.59	0.00	-2.61	-2.13	--	460	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	370	
12/29/05	6.98	7.53	0.00	-0.55	2.06	--	150	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	190	
03/27/06	6.98	6.29	0.00	0.69	1.24	--	450	ND<0.50	ND<0.50	8.3	ND<1.0	--	70	
06/12/06	6.98	6.45	0.00	0.53	-0.16	--	370	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	61	
09/21/06	6.98	6.60	0.00	0.38	-0.15	--	130	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	35	
12/21/06	6.98	6.92	0.00	0.06	-0.32	--	230	ND<0.50	ND<0.50	0.58	ND<0.50	--	11	
03/28/07	6.98	5.12	0.00	1.86	1.80	--	400	ND<0.50	ND<0.50	5.4	ND<0.50	--	13	
06/27/07	6.98	4.41	0.00	2.57	0.71	--	210	ND<0.50	ND<0.50	2.4	ND<0.50	--	18	
09/26/07	6.98	4.71	0.00	2.27	-0.30	--	740	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	18	
12/27/07	6.98	6.77	0.00	0.21	-2.06	--	180	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	18	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**August 1990 Through March 2008**  
**76 Station 5325**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>U-5 continued</b>														
03/26/08	6.98	6.41	0.00	0.57	0.36	--	310	ND<0.50	0.64	1.3	1.0	--	27	
<b>U-6 (Screen Interval in feet: 5.0-24.0)</b>														
06/22/94	7.14	7.14	0.00	0.00	--	ND	--	ND	ND	ND	ND	--	--	
09/22/94	7.14	7.34	0.00	-0.20	-0.20	130	--	1.3	0.8	ND	0.73	--	--	
12/24/94	7.14	6.67	0.00	0.47	0.67	6900	--	500	59	600	380	--	--	
03/25/95	7.14	6.29	0.00	0.85	0.38	47000	--	450	1300	1700	8200	--	--	
06/21/95	7.14	7.60	0.00	-0.46	-1.31	ND	--	ND	ND	ND	ND	--	--	
09/19/95	7.14	7.70	0.00	-0.56	-0.10	ND	--	ND	ND	ND	ND	--	--	
12/19/95	7.14	7.75	0.00	-0.61	-0.05	210	--	2.5	1.0	2.9	17	--	--	
03/18/96	7.14	6.86	0.00	0.28	0.89	ND	--	ND	ND	ND	ND	--	--	
06/27/96	7.14	6.52	0.00	0.62	0.34	ND	--	ND	ND	ND	ND	510	--	
09/26/96	7.14	7.62	0.00	-0.48	-1.10	ND	--	ND	ND	ND	ND	1400	--	
12/09/96	7.14	5.88	0.00	1.26	1.74	1200	--	29	48	6.4	140	58	--	
03/14/97	7.14	7.30	0.00	-0.16	-1.42	ND	--	ND	ND	ND	ND	1500	--	
06/30/97	7.14	7.35	0.00	-0.21	-0.05	ND	--	ND	ND	ND	ND	990	--	
09/19/97	7.14	7.25	0.00	-0.11	0.10	ND	--	ND	ND	ND	ND	1400	--	
12/12/97	7.14	7.29	0.00	-0.15	-0.04	ND	--	ND	ND	ND	ND	680	--	
03/03/98	7.14	7.00	0.00	0.14	0.29	ND	--	ND	ND	ND	ND	1600	--	
06/15/98	7.14	7.18	0.00	-0.04	-0.18	ND	--	ND	ND	ND	ND	1000	--	
09/30/98	7.14	7.90	0.00	-0.76	-0.72	ND	--	ND	ND	ND	ND	1200	--	
12/28/98	7.14	7.79	0.00	-0.65	0.11	ND	--	ND	ND	ND	ND	730	--	
03/22/99	7.14	7.47	0.00	-0.33	0.32	ND	--	ND	ND	ND	ND	1800	--	
06/09/99	7.14	7.73	0.00	-0.59	-0.26	ND	--	ND	ND	ND	ND	1000	850	
09/08/99	7.14	7.95	0.00	-0.81	-0.22	ND	--	ND	ND	ND	ND	851	1040	



**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**August 1990 Through March 2008**  
**76 Station 5325**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>U-6 continued</b>														
12/07/99	7.14	8.10	0.00	-0.96	-0.15	ND	--	ND	ND	ND	ND	1140	1150	
03/13/00	7.14	6.95	0.00	0.19	1.15	ND	--	ND	ND	ND	ND	560	670	
06/21/00	7.14	7.84	0.00	-0.70	-0.89	ND	--	ND	ND	ND	ND	400	590	
09/27/00	7.14	7.68	0.00	-0.54	0.16	ND	--	ND	ND	ND	ND	2500	2800	
12/12/00	7.14	7.74	0.00	-0.60	-0.06	ND	--	ND	ND	ND	ND	590	580	
03/07/01	7.14	7.27	0.00	-0.13	0.47	ND	--	ND	ND	ND	ND	310	321	
06/06/01	7.14	7.80	0.00	-0.66	-0.53	ND	--	ND	ND	ND	ND	250	330	
09/24/01	7.14	7.82	0.00	-0.68	-0.02	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	530	660	
12/10/01	7.14	7.15	0.00	-0.01	0.67	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	220	220	
03/11/02	7.14	7.32	0.00	-0.18	-0.17	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	720	760	
06/04/02	7.14	7.18	0.00	-0.04	0.14	250	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	470	--	
09/03/02	7.14	7.72	0.00	-0.58	-0.54	420	--	ND<2.5	ND<2.5	ND<2.5	4.7	860	1200	
12/03/02	7.14	6.92	0.00	0.22	0.80	--	ND<500	ND<5.0	ND<5.0	ND<5.0	ND<10	--	870	
03/04/03	7.14	7.01	0.00	0.13	-0.09	--	2300	ND<10	ND<10	ND<10	ND<20	--	2700	
06/18/03	7.14	6.60	0.00	0.54	0.41	--	1300	ND<10	ND<10	ND<10	ND<20	--	1700	
09/24/03	7.14	7.24	0.00	-0.10	-0.64	--	ND<10000	ND<100	ND<100	ND<100	ND<200	--	1500	
12/02/03	7.14	7.80	0.00	-0.66	-0.56	--	1300	ND<10	ND<10	ND<10	ND<20	--	1800	
03/30/04	7.14	7.32	0.00	-0.18	0.48	--	1200	ND<10	ND<10	ND<10	ND<20	--	1700	
06/07/04	7.14	9.35	0.00	-2.21	-2.03	--	1700	ND<10	ND<10	ND<10	ND<20	--	1800	
09/09/04	7.14	12.81	0.00	-5.67	-3.46	--	ND<1000	ND<10	ND<10	ND<10	ND<20	--	1400	
12/20/04	7.14	7.96	0.00	-0.82	4.85	--	320	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	65	
03/28/05	7.14	7.07	0.00	0.07	0.89	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	150	
06/14/05	7.14	7.88	0.00	-0.74	-0.81	--	ND<100	ND<1.0	ND<1.0	ND<1.0	ND<2.0	--	20	
09/28/05	7.14	10.44	0.00	-3.30	-2.56	--	150	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	4.6	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**August 1990 Through March 2008**  
**76 Station 5325**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>U-6 continued</b>														
12/29/05	7.14	7.63	0.00	-0.49	2.81	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	13	
03/27/06	7.14	6.16	0.00	0.98	1.47	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	8.1	
06/12/06	7.14	6.59	0.00	0.55	-0.43	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	6.9	
09/21/06	7.14	6.90	0.00	0.24	-0.31	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	3.1	
12/21/06	7.14	7.36	0.00	-0.22	-0.46	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	1.2	
03/28/07	7.14	3.48	0.00	3.66	3.88	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
06/27/07	7.14	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible - dumpster over well
09/26/07	7.14	2.71	0.00	4.43	--	--	54	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
12/27/07	7.14	6.96	0.00	0.18	-4.25	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.4	
03/26/08	7.14	6.56	0.00	0.58	0.40	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.3	

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 5325**

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)	Acenaph- thylene (µg/l)	Iron Ferrou (µg/l)	Nitrate (mg/l)	Phosphate (ortho) (mg/l)	Phosphate (total) (mg/l)	Redox Potential (ORP-Lab) (mV)	Post-purge Dissolved Oxygen (mg/l)	Pre-purge Dissolved Oxygen (mg/l)
U-1															
06/15/98	--	--	--	--	--	--	--	--	39000	ND	--	ND	382	--	--
09/30/98	--	--	--	--	--	--	--	--	17000	ND	--	ND	366	--	--
12/28/98	--	--	--	--	--	--	--	--	4300	6.30	--	28	298	--	--
03/22/99	--	--	--	--	--	--	--	--	4900	ND	--	3.5	320	--	--
06/09/99	--	--	--	--	--	--	--	--	1200	ND	--	ND	260	--	--
09/08/99	--	--	--	--	--	--	--	--	1800	ND	--	ND	85	--	--
12/07/99	--	--	--	--	--	--	--	--	5700	ND	--	17.0	404	--	1.36
03/13/00	--	--	--	--	--	--	--	--	8000	0.18	--	ND	262	--	--
06/21/00	--	--	--	--	--	--	--	--	9300	ND	--	ND	148	--	1.53
09/27/00	ND	--	ND	--	ND	ND	ND	--	2800	ND	--	18.4	119	--	1.63
12/12/00	--	--	--	--	--	--	--	--	490	ND	--	16.0	131	--	1.48
03/07/01	ND	--	ND	--	ND	ND	ND	--	483	2.64	--	6.89	125	--	1.91
06/06/01	ND	--	ND	--	ND	ND	ND	--	1000	ND	--	2.7	141	--	1.77
09/24/01	ND<20000	ND<400000	ND<1000	ND<1000	ND<1000	ND<1000	ND<1000	--	ND<100	0.45	--	--	125	--	1.64
12/10/01	ND<4000	ND<8000	ND<100	ND<100	ND<100	ND<100	ND<100	--	14000	ND<0.50	--	2.2	141	--	1.82
03/11/02	ND<5000	ND<25000	ND<100	ND<100	ND<100	ND<100	ND<100	--	15000	ND<0.50	--	0.11	132	--	2.21
06/04/02	--	--	--	--	--	--	--	--	ND<500	ND<0.50	--	ND<0.10	117	--	1.88
09/03/02	ND<10000	ND<50000	ND<200	ND<200	ND<200	ND<200	ND<200	--	ND<500	ND<0.50	--	ND<0.10	94	--	1.62
12/03/02	ND<10000	ND<50000	ND<200	ND<200	ND<200	ND<200	ND<200	--	9600	ND<1.0	--	ND<1.0	72	--	1.71
03/04/03	ND<5000	ND<25000	ND<100	ND<100	ND<100	ND<100	ND<100	--	36000	ND<1.0	--	ND<1.0	-125	--	0.30
06/18/03	ND<5000	ND<25000	ND<100	ND<100	ND<100	ND<100	ND<100	--	16000	ND<1.0	--	ND<1.0	-48	1.7	--
09/24/03	ND<20000	ND<100000	ND<400	ND<400	ND<400	ND<400	ND<400	--	15	ND<1.0	--	ND<1.0	-36	--	0.40
12/02/03	--	ND<100000	--	--	--	--	--	--	4000	--	--	--	--	6.46	2.05
03/30/04	3100	ND<10000	ND<100	ND<100	ND<200	ND<100	ND<100	--	12000	ND<1.0	ND<1.0	--	--	1.08	3.05
06/07/04	3300	ND<10000	ND<100	ND<100	ND<200	ND<100	ND<100	--	660	ND<0.50	6.8	--	--	1.62	2.30
12/20/04	11	ND<50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	--	0.015	ND<1.0	ND<1.0	--	--	1.35	5.55

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 5325**

Date Sampled	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	Acenaphthylene	Iron Ferrou	Nitrate	Phosphate (ortho)	Phosphate (total)	Redox Potential (ORP-Lab)	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(mg/l)	(mV)	(mg/l)	(mg/l)
<b>U-1 continued</b>															
03/28/05	--	ND<1000	--	--	--	--	--	--	16	ND<1.0	ND<1.0	--	--	4.32	3.26
06/14/05	4400	ND<1000	ND<10	ND<10	ND<10	ND<10	ND<10	--	7100	ND<1.0	12	--	--	3.95	4.52
09/28/05	5500	ND<250	ND<10	ND<10	ND<10	ND<10	ND<10	--	7300	ND<0.10	39	--	--	7.13	2.59
12/29/05	3900	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	9500	ND<0.10	21	--	--	3.74	2.81
03/27/06	--	ND<12000	--	--	--	--	--	--	8500	ND<0.10	ND<0.050	--	--	--	1.95
06/12/06	--	ND<250	--	--	--	--	--	--	25000	ND<0.10	0.64	--	--	--	1.20
09/21/06	--	ND<6200	--	--	--	--	--	--	16000	ND<0.10	1.5	--	--	--	1.28
12/21/06	--	ND<250	--	--	--	--	--	--	22000	ND<0.10	1.0	--	--	--	--
03/28/07	1600	ND<1200	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	--	20000	ND<0.10	ND<0.050	--	--	--	6.75
06/27/07	1500	ND<1200	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	--	35000	ND<0.10	0.065	--	--	--	3.87
09/26/07	--	ND<1200	--	--	--	--	--	--	27000	ND<0.10	0.11	--	--	--	2.39
12/27/07	--	ND<1200	--	--	--	--	--	--	25000	ND<0.10	ND<0.050	--	--	--	2.36
03/26/08	--	ND<1200	--	--	--	--	--	--	23000	ND<0.10	0.12	--	--	--	3.41
<b>U-2</b>															
03/03/98	--	--	--	--	--	--	--	--	25000	ND	--	ND	369	--	--
06/15/98	--	--	--	--	--	--	--	--	42000	ND	--	ND	341	--	--
09/30/98	--	--	--	--	--	--	--	--	25000	ND	--	ND	354	--	--
12/28/98	--	--	--	--	--	--	--	--	28000	ND	--	ND	276	--	--
03/22/99	--	--	--	--	--	--	--	--	680	ND	--	2.3	320	--	--
06/09/99	--	--	--	--	--	--	--	--	500	ND	--	ND	290	--	--
09/08/99	--	--	--	--	--	--	--	--	1900	ND	--	ND	235	--	--
12/07/99	--	--	--	--	--	--	--	--	250	ND	--	ND	389	--	2.28
03/13/00	--	--	--	--	--	--	--	--	4300	0.31	--	ND	184	--	--
06/21/00	--	--	--	--	--	--	--	--	260	ND	--	ND	136	--	1.96
09/27/00	--	--	--	--	--	--	--	--	640	ND	--	10.5	142	--	2.12
12/12/00	--	--	--	--	--	--	--	--	2700	ND	--	ND	155	--	2.35

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 5325**

Date Sampled	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	Acenaphthylene	Iron Ferrou	Nitrate	Phosphate (ortho)	Phosphate (total)	Redox Potential (ORP-Lab)	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(mg/l)	(mV)	(mg/l)	(mg/l)
<b>U-2 continued</b>															
03/07/01	ND	ND	ND	ND	ND	ND	ND	--	677	2.24	--	3.02	148	--	2.21
06/06/01	ND	ND	ND	ND	ND	ND	ND	--	800	ND	--	2.8	163	--	2.67
09/24/01	ND<20000	ND<400000	ND<1000	ND<1000	ND<1000	ND<1000	ND<1000	--	ND<100	0.49	--	--	151	--	2.10
12/10/01	ND<2000	ND<4000	ND<50	ND<50	ND<50	ND<50	ND<50	--	ND<100	ND<0.50	--	0.20	171	--	2.81
03/11/02	ND<100000	ND<500000	ND<200	ND<200	ND<200	ND<200	ND<200	--	ND<100	ND<0.50	--	0.65	156	--	2.77
06/04/02	--	--	--	--	--	--	--	--	ND<100	ND<0.50	--	ND<0.10	144	--	3.14
09/03/02	ND<50000	ND<250000	ND<1000	ND<1000	ND<1000	ND<1000	ND<1000	--	ND<250	ND<0.50	--	0.26	151	--	2.85
12/03/02	ND<100000	ND<500000	ND<200	ND<200	ND<200	ND<200	ND<200	--	9900	ND<1.0	--	ND<1.0	94	--	1.97
03/04/03	ND<100000	ND<500000	ND<200	ND<200	ND<200	ND<200	ND<200	--	8600	ND<1.0	--	ND<1.0	-147	--	0.40
06/18/03	ND<100000	ND<500000	ND<200	ND<200	ND<200	ND<200	ND<200	--	5500	ND<1.0	--	3.1	-8	3.2	--
09/24/03	ND<200000	ND<1000000	ND<400	ND<400	ND<400	ND<400	ND<400	--	14	ND<1.0	--	ND<1.0	-10	--	0.20
12/02/03	--	ND<1000000	--	--	--	--	--	--	2700	--	--	--	--	1.81	1.70
03/30/04	2400	ND<100000	ND<100	ND<100	ND<200	ND<100	ND<100	--	ND<200	ND<1.0	2.9	--	--	--	2.40
06/07/04	2600	ND<100000	ND<100	ND<100	ND<200	ND<100	ND<100	--	210	ND<0.50	2.4	--	--	3.29	3.10
09/09/04	2700	ND<100000	ND<100	ND<100	ND<200	ND<100	ND<100	--	930	ND<1.0	5.9	--	--	3.10	3.12
12/20/04	3500	ND<5000	ND<50	ND<50	ND<100	ND<50	ND<50	--	0.87	ND<1.0	ND<1.0	--	--	6.54	.41
03/28/05	830	ND<5000	ND<50	ND<50	ND<50	ND<50	ND<0.50	--	4.0	ND<1.0	ND<1.0	--	--	4.30	3.76
06/14/05	10000	ND<2000	ND<20	ND<20	ND<20	ND<20	ND<20	--	3400	ND<1.0	ND<1.0	--	--	3.99	3.28
09/28/05	13000	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	4000	ND<0.20	7.5	--	--	6.62	2.87
12/29/05	1000000000	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	2200	ND<0.20	4.6	--	--	5.71	1.76
03/27/06	--	ND<250	--	--	--	--	--	--	1100	ND<0.10	ND<0.050	--	--	--	0.95
06/12/06	--	ND<6200	--	--	--	--	--	--	1500	ND<0.10	ND<0.050	--	--	--	19.82
09/21/06	--	ND<250	--	--	--	--	--	--	100	33	0.36	--	--	--	3.15
12/21/06	--	ND<250	--	--	--	--	--	--	770	ND<0.20	0.21	--	--	--	--
03/28/07	4000	ND<2500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	8600	ND<0.10	ND<0.050	--	--	--	8.80
06/27/07	3000	ND<2500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	9000	ND<0.10	ND<0.050	--	--	--	4.72

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 5325**

Date Sampled	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	Acenaphthylene	Iron Ferrou	Nitrate	Phosphate (ortho)	Phosphate (total)	Redox Potential (ORP-Lab)	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(mg/l)	(mV)	(mg/l)	(mg/l)
<b>U-2 continued</b>															
09/26/07	--	ND<2500	--	--	--	--	--	--	22000	ND<0.10	0.10	--	--	--	1.84
12/27/07	--	ND<2500	--	--	--	--	--	--	7600	ND<0.10	ND<0.050	--	--	--	2.81
03/26/08	--	ND<1200	--	--	--	--	--	--	11000	ND<0.10	ND<0.050	--	--	--	3.41
<b>U-3</b>															
06/30/97	--	--	--	--	--	--	--	--	1400	21	--	0.86	190	--	4.10
09/19/97	--	--	--	--	--	--	--	--	570	19	--	ND	75	--	4.20
12/12/97	--	--	--	--	--	--	--	--	1900	23	--	0.85	390	--	2.97
03/03/98	--	--	--	--	--	--	--	--	13	36	--	ND	358	--	2.63
06/15/98	--	--	--	--	--	--	--	--	160	33	--	ND	318	--	2.93
09/30/98	--	--	--	--	--	--	--	--	40	31	--	ND	295	--	3.11
12/28/98	--	--	--	--	--	--	--	--	ND	29	--	ND	281	--	3.59
03/22/99	--	--	--	--	--	--	--	--	15	30	--	0.14	310	--	4.02
06/09/99	--	--	--	--	--	--	--	--	ND	26	--	1.2	350	--	3.70
09/08/99	--	--	--	--	--	--	--	--	ND	32.90	--	ND	417	--	3.96
12/07/99	--	--	--	--	--	--	--	--	52	27.90	--	ND	437	--	4.21
03/13/00	--	--	--	--	--	--	--	--	150	33	--	ND	307	--	--
06/21/00	--	--	--	--	--	--	--	--	200	32	--	ND	225	--	4.27
09/27/00	--	--	--	--	--	--	--	307	ND	34	--	15.7	211	--	4.67
12/12/00	--	--	--	--	--	--	--	--	ND	31	--	ND	246	--	4.79
03/07/01	--	--	--	--	--	--	--	--	ND	36.5	--	0.443	251	--	5.16
06/06/01	--	--	--	--	--	--	--	--	ND	8.0	--	0.18	214	--	4.79
09/24/01	--	--	--	--	--	--	--	--	ND<100	23.0	--	ND	198	--	4.27
12/10/01	--	--	--	--	--	--	--	--	ND<100	21	--	0.11	188	--	4.66
03/11/02	--	--	--	--	--	--	--	--	ND<100	30	--	0.14	166	--	5.06
06/04/02	--	--	--	--	--	--	--	--	ND<100	18	--	ND<0.10	151	--	5.79
09/03/02	--	--	--	--	--	--	--	--	ND<100	28	--	ND<0.10	143	--	6.04

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 5325**

Date Sampled	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	Acenaphthylene	Iron Ferrou	Nitrate	Phosphate (ortho)	Phosphate (total)	Redox Potential (ORP-Lab)	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(mg/l)	(mV)	(mg/l)	(mg/l)
<b>U-3 continued</b>															
12/03/02	--	--	--	--	--	--	--	--	ND<200	20	--	ND<1.0	154	--	5.58
03/04/03	--	--	--	--	--	--	--	--	ND<200	18	--	ND<1.0	-136	--	0.20
06/18/03	--	--	--	--	--	--	--	--	ND<200	17	--	ND<1.0	333	3.5	--
09/24/03	--	ND<500	--	--	--	--	--	--	ND<0.20	18	--	1.4	-50	--	0.60
12/02/03	--	ND<500	--	--	--	--	--	--	ND<200	--	--	--	--	4.28	4.30
03/30/04	--	ND<50	--	--	--	--	--	--	ND<200	16	ND<1.0	--	--	7.75	2.80
06/07/04	--	ND<50	--	--	--	--	--	--	ND<200	17	ND<0.20	--	--	4.19	4.70
09/09/04	--	ND<50	--	--	--	--	--	--	ND<10	16	1.2	--	--	4.68	4.75
12/20/04	--	ND<50	--	--	--	--	--	--	ND<0.010	17	ND<1.0	--	--	6.70	3.28
03/28/05	--	ND<50	--	--	--	--	--	--	ND<0.050	17	ND<1.0	--	--	4.21	3.32
06/14/05	--	ND<50	--	--	--	--	--	--	ND<50	18	ND<1.0	--	--	2.97	2.82
09/28/05	--	ND<250	--	--	--	--	--	--	ND<100	4.3	0.66	--	--	6.99	4.96
12/29/05	--	ND<250	--	--	--	--	--	--	ND<100	4.3	0.65	--	--	4.57	3.35
03/27/06	--	ND<250	--	--	--	--	--	--	ND<100	4.5	0.66	--	--	--	2.67
06/12/06	--	ND<250	--	--	--	--	--	--	ND<100	4.4	0.64	--	--	--	3.97
09/21/06	--	ND<250	--	--	--	--	--	--	170	4.4	0.69	--	--	--	2.64
12/21/06	--	ND<250	--	--	--	--	--	--	ND<100	4.5	0.68	--	--	--	--
03/28/07	--	ND<250	--	--	--	--	--	--	ND<100	4.7	0.67	--	--	--	8.10
06/27/07	--	ND<250	--	--	--	--	--	--	ND<100	4.5	0.64	--	--	--	8.72
09/26/07	--	ND<250	--	--	--	--	--	--	9900	ND<0.10	ND<0.050	--	--	--	3.49
12/27/07	--	ND<250	--	--	--	--	--	--	130	4.6	0.75	--	--	--	1.78
03/26/08	--	ND<250	--	--	--	--	--	--	190	5.1	0.64	--	--	--	1.32
<b>U-4</b>															
06/30/97	--	--	--	--	--	--	--	--	130	35	--	0.52	200	--	5.40
09/19/97	--	--	--	--	--	--	--	--	350	30	--	ND	45	--	5.10
12/12/97	--	--	--	--	--	--	--	--	680	31	--	0.73	380	--	3.11

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 5325**

Date Sampled	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	Acenaphthylene	Iron Ferrou	Nitrate	Phosphate (ortho)	Phosphate (total)	Redox Potential (ORP-Lab)	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(mg/l)	(mV)	(mg/l)	(mg/l)
<b>U-4 continued</b>															
03/03/98	--	--	--	--	--	--	--	--	18	3.2	--	ND	284	--	2.94
06/15/98	--	--	--	--	--	--	--	--	140	33	--	ND	256	--	3.08
09/30/98	--	--	--	--	--	--	--	--	49	31	--	ND	276	--	4.05
12/28/98	--	--	--	--	--	--	--	--	360	31	--	ND	280	--	4.57
03/22/99	--	--	--	--	--	--	--	--	ND	30	--	0.14	320	--	4.26
06/09/99	--	--	--	--	--	--	--	--	ND	35	--	0.91	340	--	3.61
09/08/99	--	--	--	--	--	--	--	--	ND	24	--	ND	391	--	3.75
12/07/99	--	--	--	--	--	--	--	--	ND	27.7	--	ND	478	--	4.03
03/13/00	--	--	--	--	--	--	--	--	ND	33	--	ND	244	--	--
06/21/00	--	--	--	--	--	--	--	--	34	32	--	ND	248	--	4.89
09/27/00	--	--	--	--	--	--	--	--	ND	28	--	ND	198	--	5.09
12/12/00	--	--	--	--	--	--	--	--	ND	30	--	ND	210	--	4.86
03/07/01	--	--	--	--	--	--	--	--	ND	33.9	--	0.226	233	--	4.97
06/06/01	--	--	--	--	--	--	--	--	ND	7.4	--	0.21	248	--	5.12
09/24/01	--	--	--	--	--	--	--	--	ND<100	24	--	--	262	--	4.86
12/10/01	--	--	--	--	--	--	--	--	ND<100	19	--	0.10	242	--	5.05
03/11/02	--	--	--	--	--	--	--	--	ND<100	31	--	0.14	195	--	4.83
06/04/02	--	--	--	--	--	--	--	--	ND<100	27	--	ND<0.10	169	--	5.58
09/03/02	--	--	--	--	--	--	--	--	ND<100	28	--	0.27	126	--	5.94
12/03/02	--	--	--	--	--	--	--	--	ND<200	20	--	ND<1.0	133	--	5.82
03/04/03	--	--	--	--	--	--	--	--	ND<200	26	--	ND<1.0	-148	--	0.30
06/18/03	--	--	--	--	--	--	--	--	ND<200	31	--	ND<1.0	250	3.6	--
09/24/03	--	ND<500	--	--	--	--	--	--	ND<0.20	17	--	1.5	-24	--	0.20
12/02/03	--	ND<500	--	--	--	--	--	--	ND<200	--	--	--	--	3.45	3.57
03/30/04	--	ND<50	--	--	--	--	--	--	ND<200	25	ND<1.0	--	--	3.84	4.29
06/07/04	--	ND<50	--	--	--	--	--	--	ND<200	24	ND<0.20	--	--	4.02	4.56



**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 5325**

Date Sampled	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	Acenaphthylene	Iron Ferrou	Nitrate	Phosphate (ortho)	Phosphate (total)	Redox Potential (ORP-Lab)	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(mg/l)	(mV)	(mg/l)	(mg/l)
<b>U-4 continued</b>															
09/09/04	--	ND<50	--	--	--	--	--	--	ND<10	22	ND<1.0	--	--	4.09	4.20
12/20/04	--	ND<50	--	--	--	--	--	--	ND<0.010	20	ND<1.0	--	--	6.19	5.11
03/28/05	--	ND<50	--	--	--	--	--	--	0.060	31	ND<1.0	--	--	4.66	4.54
06/14/05	--	ND<50	--	--	--	--	--	--	ND<50	32	ND<1.0	--	--	3.09	3.02
09/28/05	--	ND<250	--	--	--	--	--	--	190	6.8	0.45	--	--	6.59	5.02
12/29/05	--	ND<250	--	--	--	--	--	--	ND<100	5.3	0.37	--	--	5.09	5.03
03/27/06	--	ND<250	--	--	--	--	--	--	ND<100	6.4	0.41	--	--	--	5.51
06/12/06	--	ND<250	--	--	--	--	--	--	2200	6.8	0.39	--	--	--	4.33
09/21/06	--	ND<250	--	--	--	--	--	--	360	5.7	0.43	--	--	--	3.51
12/21/06	--	ND<250	--	--	--	--	--	--	ND<100	5.6	0.41	--	--	--	--
03/28/07	--	ND<250	--	--	--	--	--	--	ND<100	5.5	0.49	--	--	--	12.16
06/27/07	--	ND<250	--	--	--	--	--	--	ND<100	5.3	0.34	--	--	--	10.42
09/26/07	--	ND<250	--	--	--	--	--	--	ND<100	5.4	0.40	--	--	--	4.27
12/27/07	--	ND<250	--	--	--	--	--	--	ND<100	5.3	0.43	--	--	--	3.74
03/26/08	--	ND<250	--	--	--	--	--	--	160	5.6	0.38	--	--	--	2.87
<b>U-5</b>															
06/30/97	--	--	--	--	--	--	--	--	16000	ND	--	ND	160	--	3.40
09/19/97	--	--	--	--	--	--	--	--	220	ND	--	ND	63	--	0.60
12/12/97	--	--	--	--	--	--	--	--	6700	ND	--	ND	400	--	1.75
03/03/98	--	--	--	--	--	--	--	--	18000	3.1	--	ND	345	--	2.36
06/15/98	--	--	--	--	--	--	--	--	17000	ND	--	ND	333	--	2.55
09/30/98	--	--	--	--	--	--	--	--	17000	ND	--	ND	318	--	1.93
12/28/98	--	--	--	--	--	--	--	--	17000	6.6	--	ND	305	--	1.64
03/22/99	--	--	--	--	--	--	--	--	120	ND	--	2.4	340	--	1.99
06/09/99	--	--	--	--	--	--	--	--	230	ND	--	ND	320	--	2.10
09/08/99	--	--	--	--	--	--	--	--	2100	ND	--	ND	335	--	2.21

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 5325**

Date Sampled	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	Acenaphthylene	Iron Ferrou	Nitrate	Phosphate (ortho)	Phosphate (total)	Redox Potential (ORP-Lab)	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(mg/l)	(mV)	(mg/l)	(mg/l)
<b>U-5 continued</b>															
12/07/99	--	--	--	--	--	--	--	--	310	ND	--	ND	408	--	2.66
03/13/00	--	--	--	--	--	--	--	--	330	0.16	--	ND	264	--	--
06/21/00	--	--	--	--	--	--	--	--	150	ND	--	ND	159	--	3.42
09/27/00	--	--	--	--	--	--	--	--	330	ND	--	ND	136	--	3.85
12/12/00	--	--	--	--	--	--	--	--	86	ND	--	ND	122	--	3.53
03/07/01	ND	ND	ND	ND	ND	ND	ND	--	1070	3.02	--	4.00	141	--	2.98
06/06/01	--	--	--	--	--	--	--	--	ND	ND	--	1.2	112	--	2.67
09/24/01	ND<200	ND<4000	ND<10	ND<10	ND<10	ND<10	ND<10	--	ND<100	0.77	--	--	146	--	3.15
12/10/01	--	--	--	--	--	--	--	--	3700	ND<0.50	--	2.6	96	--	2.85
03/11/02	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	100	ND<0.50	--	0.52	108	--	3.15
06/04/02	--	--	--	--	--	--	--	--	ND<250	ND<0.50	--	ND<0.10	118	--	3.46
09/03/02	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	ND<250	ND<0.50	--	ND<0.10	87	--	2.85
12/03/02	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	22000	ND<1.0	--	ND<1.0	104	--	2.71
03/04/03	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	19000	ND<1.0	--	ND<1.0	-166	--	0.20
06/18/03	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	11000	ND<1.0	--	ND<1.0	-10	2.4	--
09/24/03	--	ND<500	--	--	--	--	--	--	ND<0.20	18	--	1.8	-28	--	0.30
12/02/03	--	ND<500	--	--	--	--	--	--	9400	--	--	--	--	2.22	2.15
03/30/04	52	ND<50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	--	5900	ND<1.0	ND<1.0	--	--	1.89	1.88
06/07/04	69	ND<50	ND<0.5	ND<0.5	ND<1.0	ND<0.5	ND<0.5	--	3800	ND<0.50	ND<0.20	--	--	1.88	1.92
09/09/04	130	ND<50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	--	4100	ND<1.0	ND<1.0	--	--	2.38	2.58
12/20/04	--	ND<50	--	--	--	--	--	--	5.0	ND<1.0	ND<1.0	--	--	.71	2.01
03/28/05	150	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	6.5	ND<1.0	ND<1.0	--	--	2.02	1.06
06/14/05	160	ND<100	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	7400	3.6	ND<1.0	--	--	2.38	2.02
09/28/05	220	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	7300	ND<0.50	0.10	--	--	6.94	4.58
12/29/05	280	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	7300	ND<0.50	ND<0.050	--	--	2.17	1.99
03/27/06	--	ND<250	--	--	--	--	--	--	6300	ND<0.50	ND<0.050	--	--	--	2.69

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 5325**

Date Sampled	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	Acenaphthylene	Iron Ferrou	Nitrate	Phosphate (ortho)	Phosphate (total)	Redox Potential (ORP-Lab)	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(mg/l)	(mV)	(mg/l)	(mg/l)
<b>U-5 continued</b>															
06/12/06	--	ND<250	--	--	--	--	--	--	8700	ND<0.20	ND<0.050	--	--	--	2.32
09/21/06	--	ND<250	--	--	--	--	--	--	6800	ND<0.50	ND<0.050	--	--	--	1.37
12/21/06	--	ND<250	--	--	--	--	--	--	15000	ND<0.50	ND<0.050	--	--	--	---
03/28/07	870	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	10000	ND<0.20	ND<0.050	--	--	--	9.09
06/27/07	220	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	10000	ND<0.10	ND<0.050	--	--	--	3.52
09/26/07	--	ND<250	--	--	--	--	--	--	9200	ND<0.10	ND<0.050	--	--	--	2.66
12/27/07	--	ND<250	--	--	--	--	--	--	5900	ND<0.10	ND<0.050	--	--	--	1.63
03/26/08	--	ND<250	--	--	--	--	--	--	10000	ND<0.20	ND<0.050	--	--	--	2.32
<b>U-6</b>															
06/30/97	--	--	--	--	--	--	--	--	88000	0.80	--	ND	190	--	0.30
09/19/97	--	--	--	--	--	--	--	--	2900	1.80	--	ND	ND	--	0.60
12/12/97	--	--	--	--	--	--	--	--	51000	ND	--	ND	380	--	2.70
03/03/98	--	--	--	--	--	--	--	--	60000	3.5	--	ND	327	--	2.18
06/15/98	--	--	--	--	--	--	--	--	590000	4.8	--	ND	315	--	2.48
09/30/98	--	--	--	--	--	--	--	--	33000	ND	--	ND	345	--	3.06
12/28/98	--	--	--	--	--	--	--	--	83000	7.2	--	ND	297	--	3.42
03/22/99	--	--	--	--	--	--	--	--	2100	ND	--	0.98	330	--	3.88
06/09/99	--	--	--	--	--	--	--	--	470	0.20	--	ND	320	--	3.29
09/08/99	--	--	--	--	--	--	--	--	140	5.59	--	ND	305	--	3.12
12/07/99	--	--	--	--	--	--	--	--	260	ND	--	ND	443	--	3.44
03/13/00	--	--	--	--	--	--	--	--	790	0.26	--	ND	222	--	--
06/21/00	--	--	--	--	--	--	--	--	1900	ND	--	ND	159	--	3.27
09/27/00	--	--	--	--	--	--	--	--	2600	ND	--	ND	170	--	3.49
12/12/00	--	--	--	--	--	--	--	--	ND	2.7	--	ND	128	--	3.06
03/07/01	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
06/06/01	ND	ND	ND	ND	ND	ND	ND	--	470	0.15	--	0.70	97	--	2.46

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 5325**

Date Sampled	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	Acenaphthylene	Iron Ferrou	Nitrate	Phosphate (ortho)	Phosphate (total)	Redox Potential (ORP-Lab)	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(mg/l)	(mV)	(mg/l)	(mg/l)
<b>U-6 continued</b>															
09/24/01	ND<2000	ND<40000	ND<100	ND<100	ND<100	ND<100	ND<100	--	ND<100	0.58	--	--	123	--	3.10
12/10/01	ND<200	ND<400	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	990	0.50	--	2.0	112	--	2.57
03/11/02	ND<400	ND<2000	ND<8.0	ND<8.0	ND<8.0	ND<8.0	ND<8.0	--	1200	ND<0.50	--	0.089	128	--	3.03
06/04/02	--	--	--	--	--	--	--	--	ND<100	ND<0.50	--	ND<1.0	97	--	2.84
09/03/02	ND<2000	ND<10000	ND<40	ND<40	ND<40	ND<40	ND<40	--	ND<100	0.58	--	1.1	110	--	3.12
12/03/02	ND<1000	ND<5000	ND<20	ND<20	ND<20	ND<20	ND<20	--	1200	ND<1.0	--	2.6	95	--	2.96
03/04/03	ND<2000	ND<10000	ND<40	ND<40	ND<40	ND<40	ND<40	--	20000	ND<1.0	--	ND<1.0	-112	--	0.30
06/18/03	ND<2000	ND<10000	ND<40	ND<40	ND<40	ND<40	ND<40	--	3200	ND<1.0	--	2.0	-15	3.2	--
09/24/03	ND<20000	ND<100000	ND<400	ND<400	ND<400	ND<400	ND<400	--	1.4	ND<1.0	--	4.6	-12	--	0.30
12/02/03	--	ND<10000	--	--	--	--	--	--	1400	--	--	--	--	3.10	2.53
03/30/04	770	ND<1000	ND<10	ND<10	ND<20	ND<10	ND<10	--	2600	ND<1.0	ND<1.0	--	--	3.61	1.88
06/07/04	110	ND<1000	ND<10	ND<10	ND<20	ND<10	ND<10	--	2100	0.8	ND<0.20	--	--	2.43	2.90
09/09/04	1900	ND<1000	ND<10	ND<10	ND<20	ND<10	ND<10	--	870	ND<1.0	3.8	--	--	2.84	2.96
12/20/04	5000	ND<250	ND<2.5	ND<2.5	ND<5.0	ND<2.5	ND<2.5	--	2.5	ND<1.0	ND<1.0	--	--	--	--
03/28/05	990	--	ND<2.5	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	3.4	ND<1.0	ND<1.0	--	--	3.18	2.57
06/14/05	ND<5.0	ND<100	ND<0.5	ND<0.5	ND<0.50	ND<0.50	ND<0.50	--	4100	3.8	ND<1.0	--	--	4.02	4.20
09/28/05	3800	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	21000	ND<0.20	3.4	--	--	7.93	6.82
12/29/05	1100	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	8300	0.48	ND<0.050	--	--	1.49	3.56
03/27/06	--	ND<250	--	--	--	--	--	--	8800	0.37	0.19	--	--	--	1.33
06/12/06	--	ND<250	--	--	--	--	--	--	8500	0.23	ND<0.050	--	--	--	1.32
09/21/06	--	ND<250	--	--	--	--	--	--	2900	0.19	0.31	--	--	--	2.07
12/21/06	--	ND<250	--	--	--	--	--	--	11000	0.36	0.41	--	--	--	--
03/28/07	--	ND<250	--	--	--	--	--	--	ND<100	0.55	0.31	--	--	--	7.37
09/26/07	--	ND<250	--	--	--	--	--	--	ND<100	0.41	0.34	--	--	--	3.92
12/27/07	--	ND<250	--	--	--	--	--	--	7700	ND<0.10	1.0	--	--	--	2.55
03/26/08	--	ND<250	--	--	--	--	--	--	19000	ND<0.10	1.2	--	--	--	2.74

**Table 2 b**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 5325**

Date Sampled	Pre-purge ORP (mV)	Post-purge ORP (mV)
<b>U-1</b>		
12/02/03	-72	-73
03/30/04	-40	-54
06/07/04	-32	-48
12/20/04	--	32
03/28/05	124	138
06/14/05	-145	-177
09/28/05	-065	-160
12/29/05	-310	-508
03/27/06	-667	--
06/12/06	-229	--
09/21/06	-110	--
12/21/06	-102	--
03/28/07	-93	--
06/27/07	-106	--
09/26/07	-60	--
12/27/07	-60	--
03/26/08	-63	--
<b>U-2</b>		
12/02/03	-29	-67
03/30/04	-6	--
06/07/04	-8	7
09/09/04	-74	-79
12/20/04	-84	-72
03/28/05	118	140
06/14/05	-155	-206
09/28/05	-100	-179

**Table 2 b**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 5325**

Date Sampled	Pre-purge ORP	Post-purge ORP
	(mV)	(mV)
<b>U-2 continued</b>		
12/29/05	-578	-484
03/27/06	-1334	--
06/12/06	-130	--
09/21/06	-18	--
12/21/06	-92	--
03/28/07	-97	--
06/27/07	-105	--
09/26/07	-25	--
12/27/07	-64	--
03/26/08	-65	--
<b>U-3</b>		
12/02/03	97	105
03/30/04	-38	12
06/07/04	23	42
09/09/04	14	21
12/20/04	45	32
03/28/05	145	137
06/14/05	90	86
09/28/05	-068	-060
12/29/05	-802	-1132
03/27/06	-1588	--
06/12/06	77	--
09/21/06	-33	--
12/21/06	85	--
03/28/07	-10	--
06/27/07	111	--

**Table 2 b**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 5325**

Date Sampled	Pre-purge ORP  (mV)	Post-purge ORP  (mV)
<b>U-3 continued</b>		
09/26/07	72	--
12/27/07	-72	--
03/26/08	97	--
<b>U-4</b>		
12/02/03	107	102
03/30/04	19	42
06/07/04	27	15
09/09/04	-26	-8
12/20/04	84	77
03/28/05	163	130
06/14/05	78	88
09/28/05	099	082
12/29/05	-628	-632
03/27/06	-1000	--
06/12/06	102	--
09/21/06	152	--
12/21/06	90	--
03/28/07	144	--
06/27/07	115	--
09/26/07	98	--
12/27/07	33	--
03/26/08	97	--
<b>U-5</b>		
12/02/03	-39	-39
03/30/04	-19	-37
06/07/04	-15	-31

**Table 2 b**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 5325**

Date Sampled	Pre-purge ORP  (mV)	Post-purge ORP  (mV)
<b>U-5 continued</b>		
09/09/04	-41	-67
12/20/04	-65	-72
03/28/05	132	133
06/14/05	-163	-168
09/28/05	-126	-125
12/29/05	-416	-411
03/27/06	-585	--
06/12/06	-236	--
09/21/06	-125	--
12/21/06	-109	--
03/28/07	-97	--
06/27/07	-101	--
09/26/07	-80	--
12/27/07	-83	--
03/26/08	-9	--
<b>U-6</b>		
12/02/03	-99	-74
03/30/04	-28	-33
06/07/04	-32	-62
09/09/04	-89	--
03/28/05	84	96
06/14/05	-158	-175
09/28/05	-028	-141
12/29/05	-480	-548
03/27/06	-953	--
06/12/06	-234	--



**Table 2 b**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 5325**

Date Sampled	Pre-purge ORP	Post-purge ORP
	(mV)	(mV)

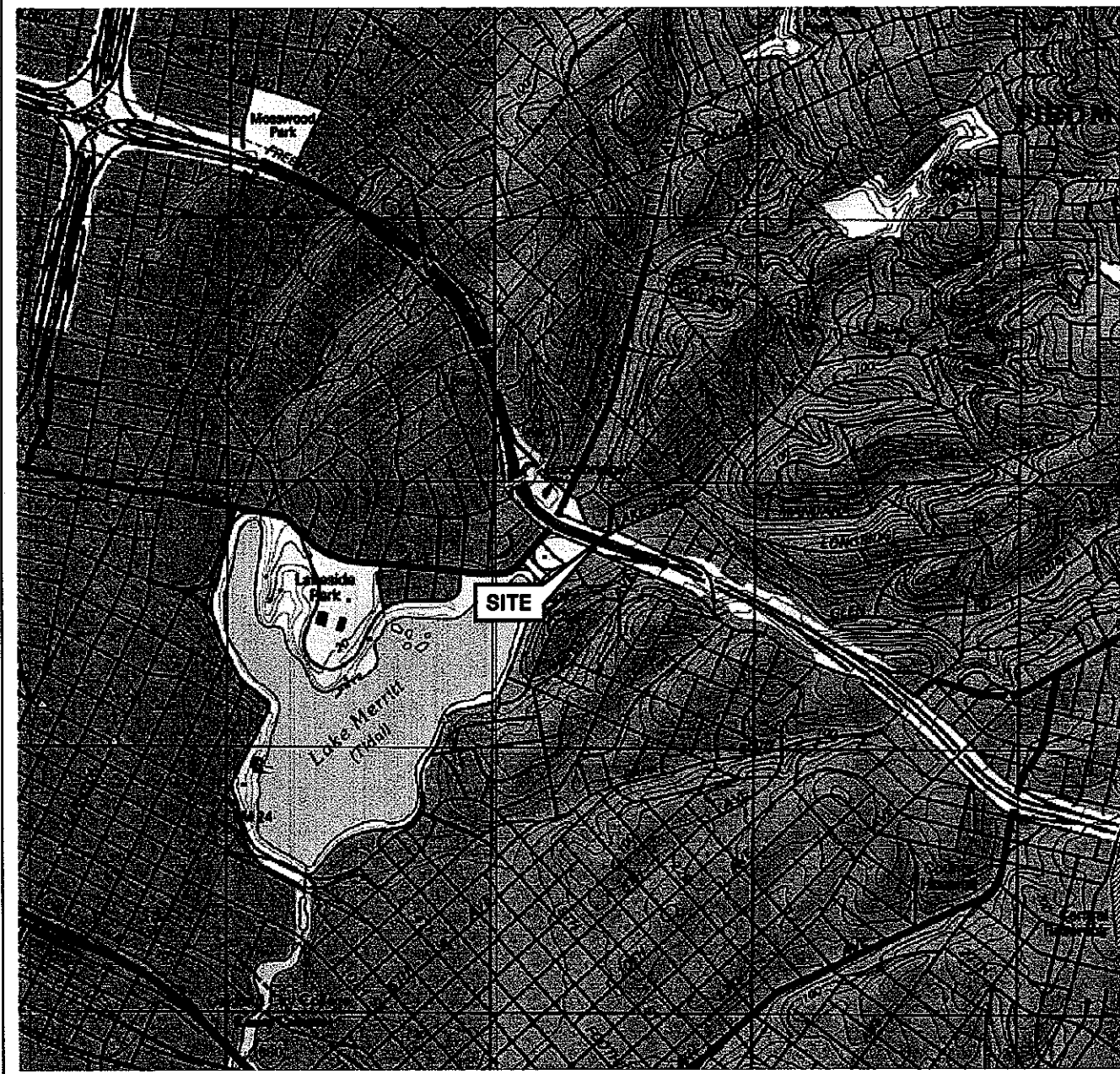
---

**U-6 continued**

09/21/06	-113	--
12/21/06	-132	--
03/28/07	-36	--
09/26/07	64	--
12/27/07	-5	--
03/26/08	115	--

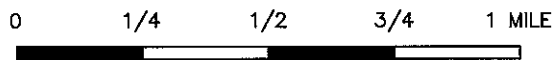
# FIGURES

PS=1:1 L:\QMS VICINITY MAP S05325VM.DWG Nov 15, 2007 - 3:03pm cwang



SOURCE:

United States Geological Survey  
7.5 Minute Topographic Map:  
Oakland West Quadrangle



SCALE 1:24,000




PROJECT: 154771

FACILITY:  
76 STATION 5325  
3220 LAKESHORE AVENUE  
OAKLAND, CALIFORNIA


VICINITY MAP

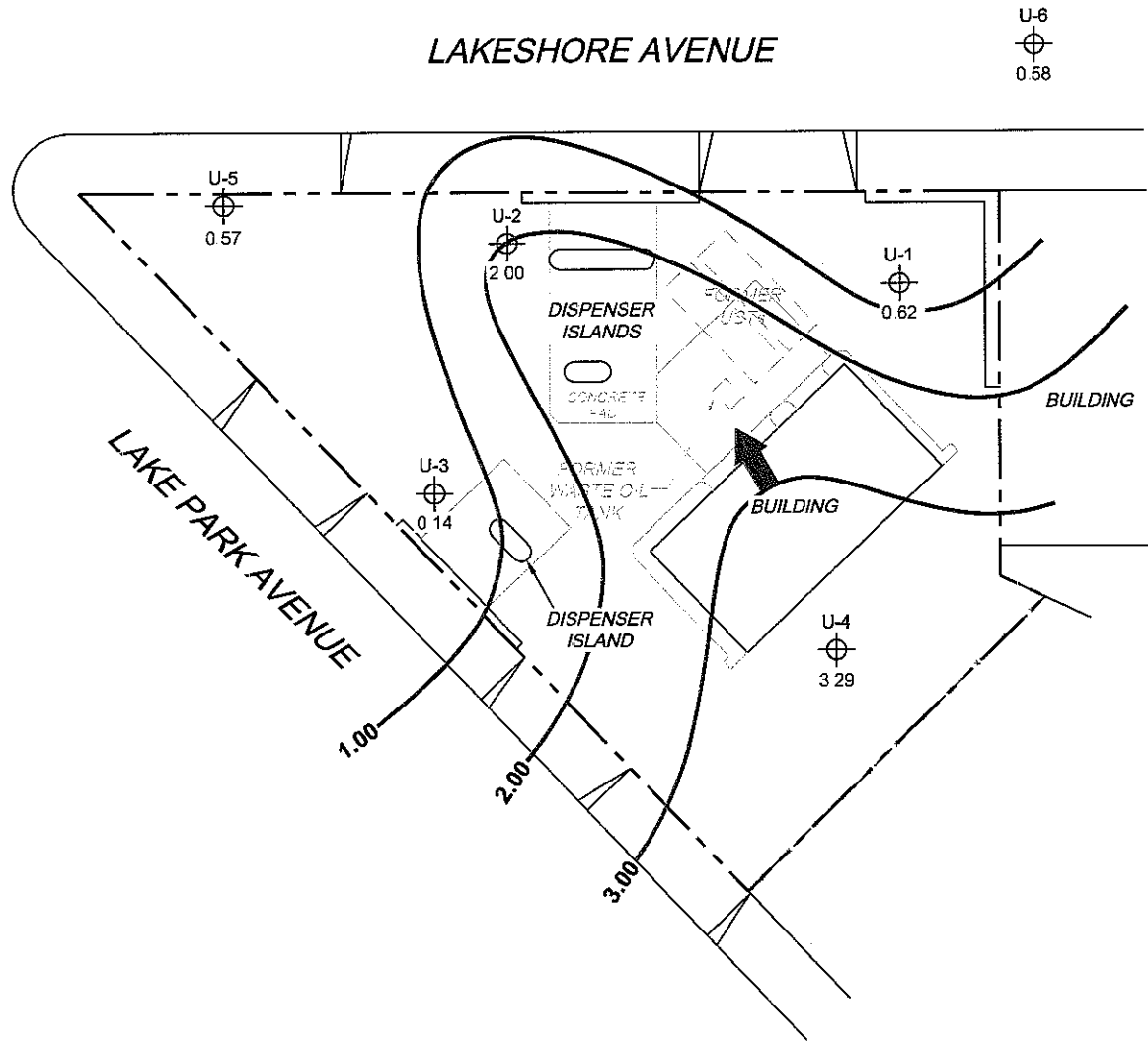
FIGURE 1

**LEGEND**

U-6  Monitoring Well with Groundwater Elevation (feet)

3.00  Groundwater Elevation Contour

 General Direction of Groundwater Flow



**NOTES:**

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

SCALE (FEET)



L:\Graphics\CMS NORTH-SOUTH\DX-6000\5325-QMS(NEW).DWG Apr 14, 2008 - 10:55am bschmidt

MS-1:40 5325-003




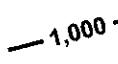
PROJECT: 154771  
 FACILITY:  
 76 STATION 5325  
 3220 LAKESHORE AVENUE  
 OAKLAND, CALIFORNIA

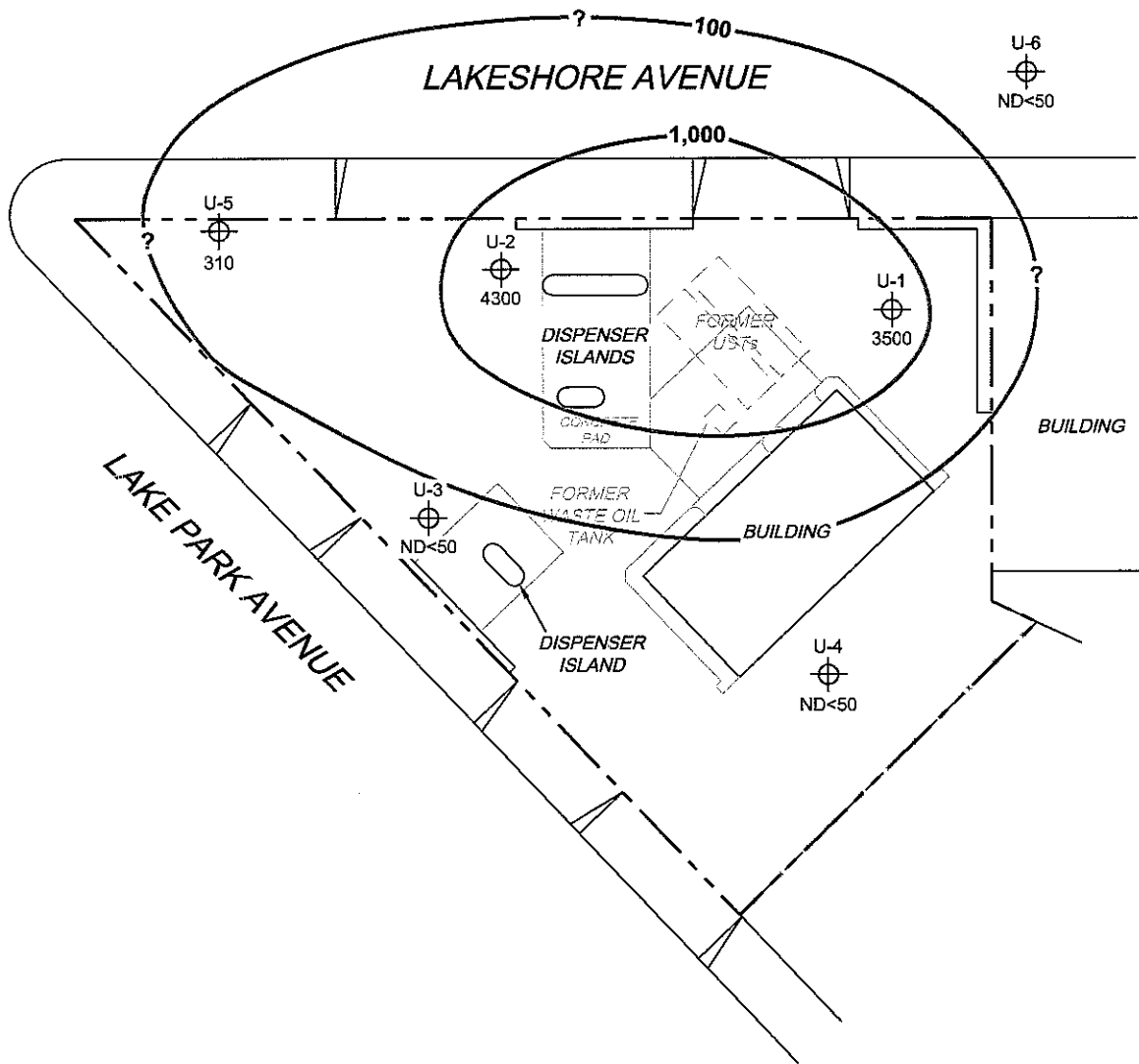
**GROUNDWATER ELEVATION  
 CONTOUR MAP  
 March 26, 2008**

**FIGURE 2**

**LEGEND**

U-6  Monitoring Well with Dissolved-Phase TPH-G (GC/MS) Concentration (µg/l)

 1,000 Dissolved-Phase TPH-G (GC/MS) Contour (µg/l)



**NOTES:**

Contour lines are interpretive and based on laboratory analysis results of groundwater samples  
 TPH-G (GC/MS) = total petroleum hydrocarbons with gasoline distinction utilizing EPA Method  
 8260B. µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory  
 report. UST = underground storage tank.

SCALE (FEET)



L:\Graphics\CMS NORTH-SOUTH\ix-5000\5325-15325\QMS(NEW).DWG Apr 15, 2008 - 10:55am bschmidt

MS=1:40 5325-003




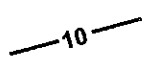
PROJECT: 154771  
 FACILITY:  
 76 STATION 5325  
 3220 LAKESHORE AVENUE  
 OAKLAND, CALIFORNIA

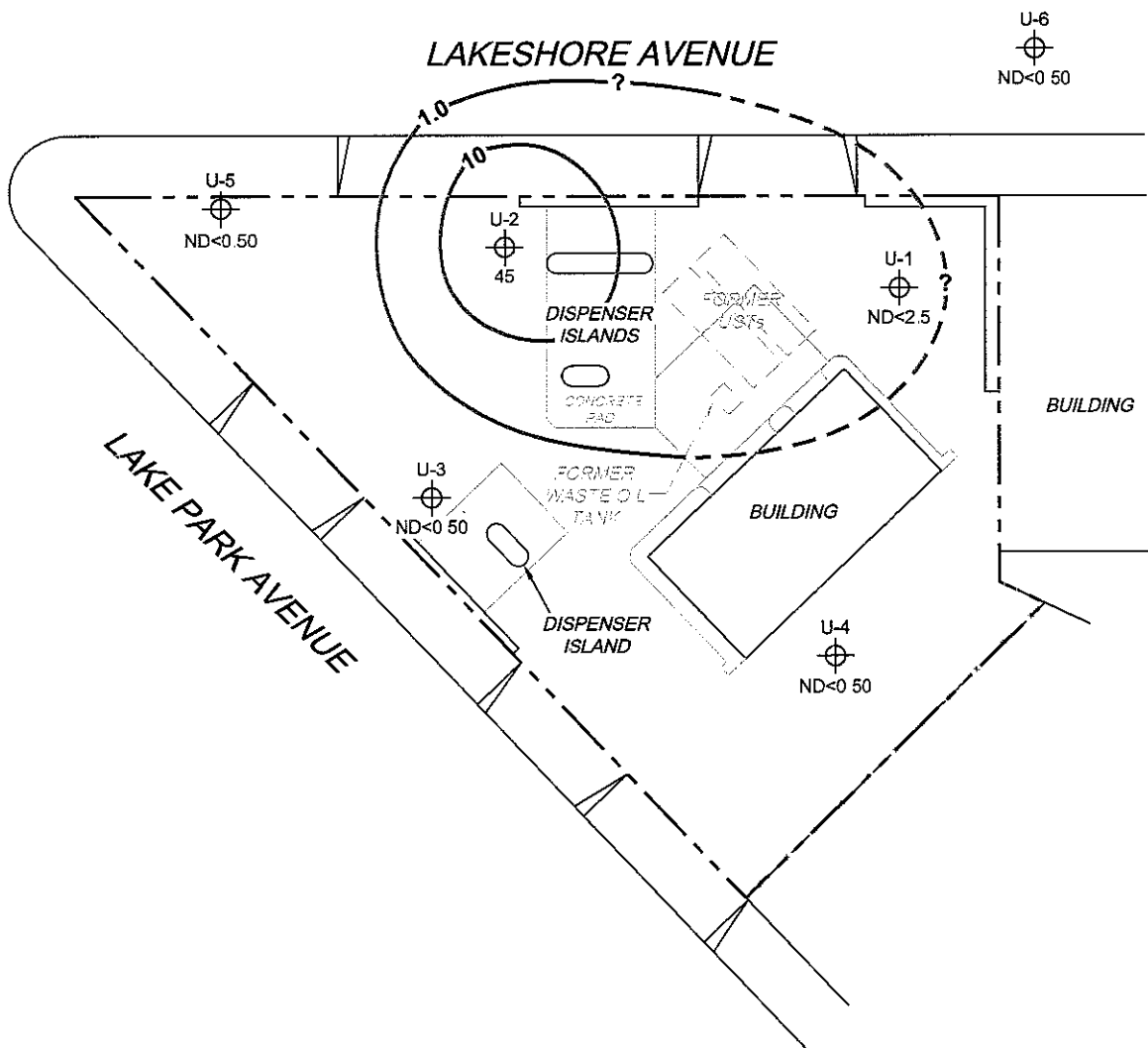
**DISSOLVED-PHASE TPH-G (GC/MS)  
 CONCENTRATION MAP  
 March 26, 2008**

**FIGURE 3**

**LEGEND**

U-6  Monitoring Well with Dissolved-Phase Benzene Concentration ( $\mu\text{g/l}$ )

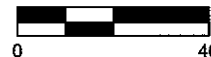
 Dissolved-Phase Benzene Contour ( $\mu\text{g/l}$ )



**NOTES:**

Contour lines are interpretive and based on laboratory analysis results of groundwater samples.  
 $\mu\text{g/l}$  = micrograms per liter. ND = not detected at limit indicated on official laboratory report  
 Dashes indicate contour based on non-detect at elevated detection limit. UST = underground storage tank.

SCALE (FEET)



L:\Graphics\QMS NORTH-SOUTH\5325-000\5325-QMS(NEW).DWG Apr 14, 2008 - 11:21am bschmidt MS=1:40 5325-003




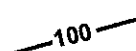
PROJECT: 154771  
 FACILITY:  
 76 STATION 5325  
 3220 LAKESHORE AVENUE  
 OAKLAND, CALIFORNIA

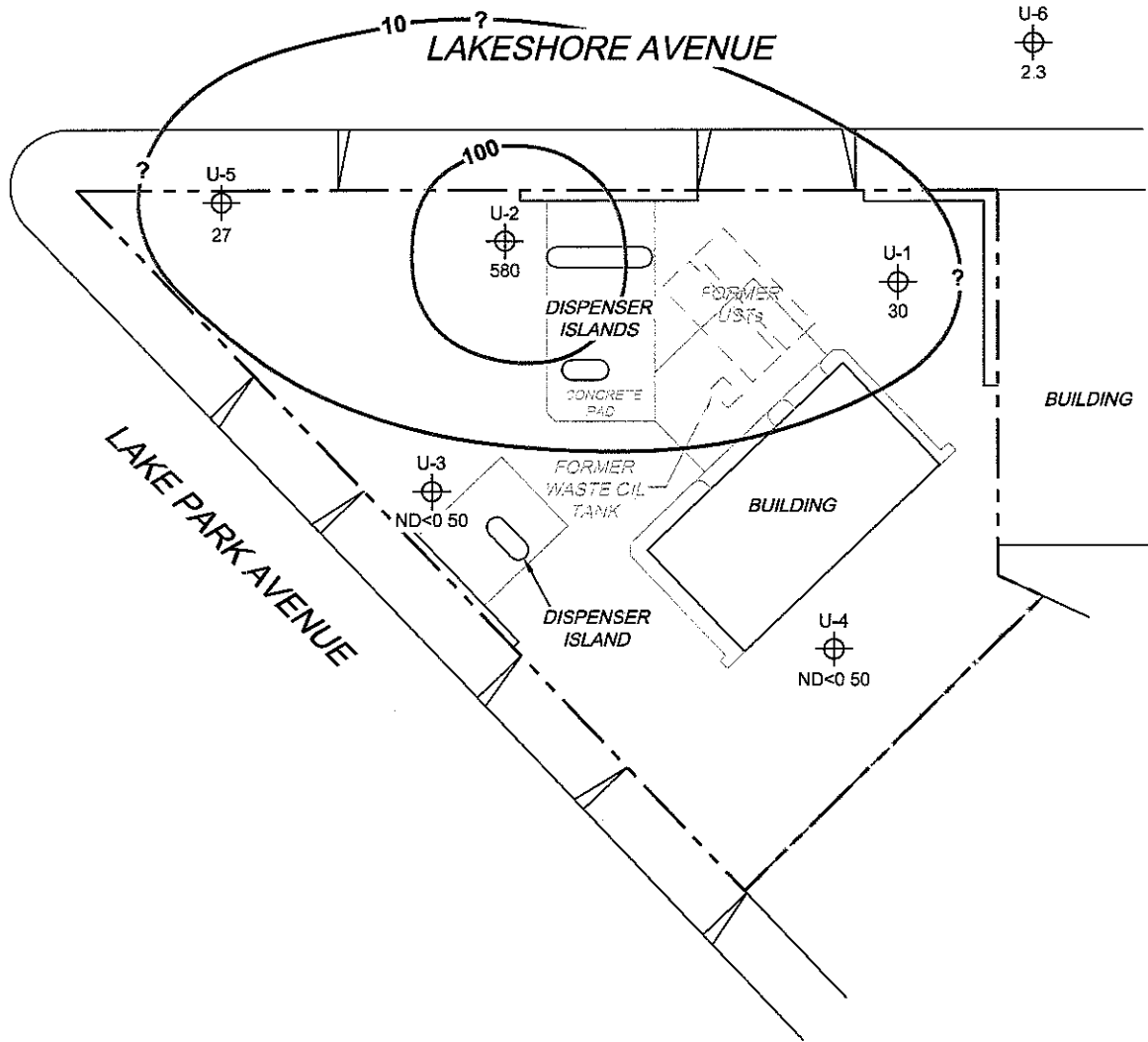
**DISSOLVED-PHASE BENZENE  
 CONCENTRATION MAP  
 March 26, 2008**

**FIGURE 4**

**LEGEND**

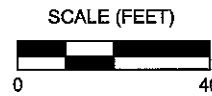
U-6  Monitoring Well with Dissolved-Phase MTBE Concentration ( $\mu\text{g/l}$ )

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



**NOTES:**

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. MTBE = methyl tertiary butyl ether.  $\mu\text{g/l}$  = micrograms per liter. ND = not detected at limit indicated on official laboratory report. UST = underground storage tank. Results obtained using EPA Method 8260B



L:\Graphics\GIS\MS NORTH-SOUTH\UX-5000\5325-5325\5325QMS(NEW).DWG Apr 15, 2008 - 9:46am bschmidt

MS-1:40 5325-003



PROJECT: 154771  
 FACILITY:  
 76 STATION 5325  
 3220 LAKESHORE AVENUE  
 OAKLAND, CALIFORNIA

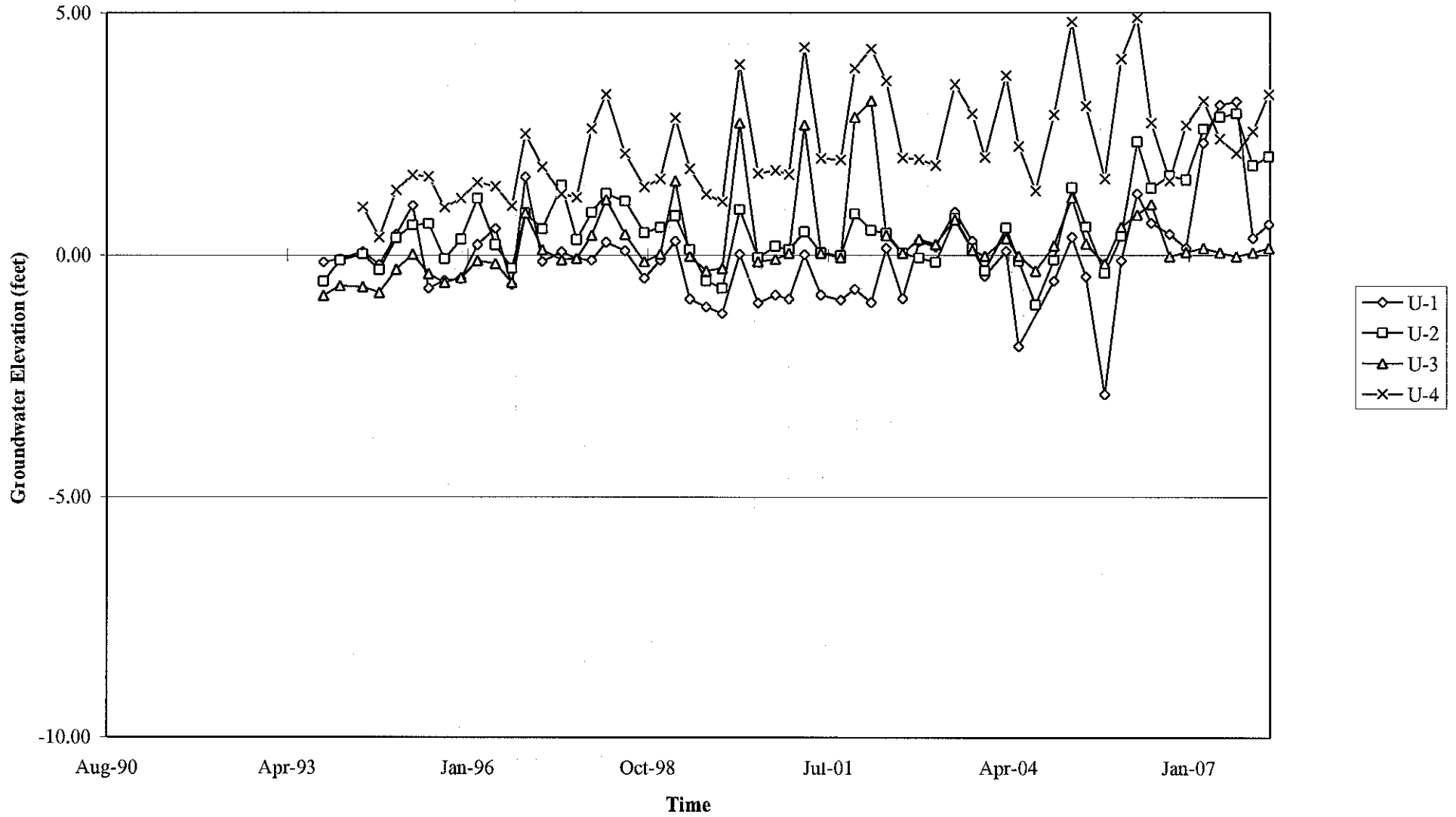
**DISSOLVED-PHASE MTBE  
 CONCENTRATION MAP  
 March 26, 2008**

**FIGURE 5**

# GRAPHS

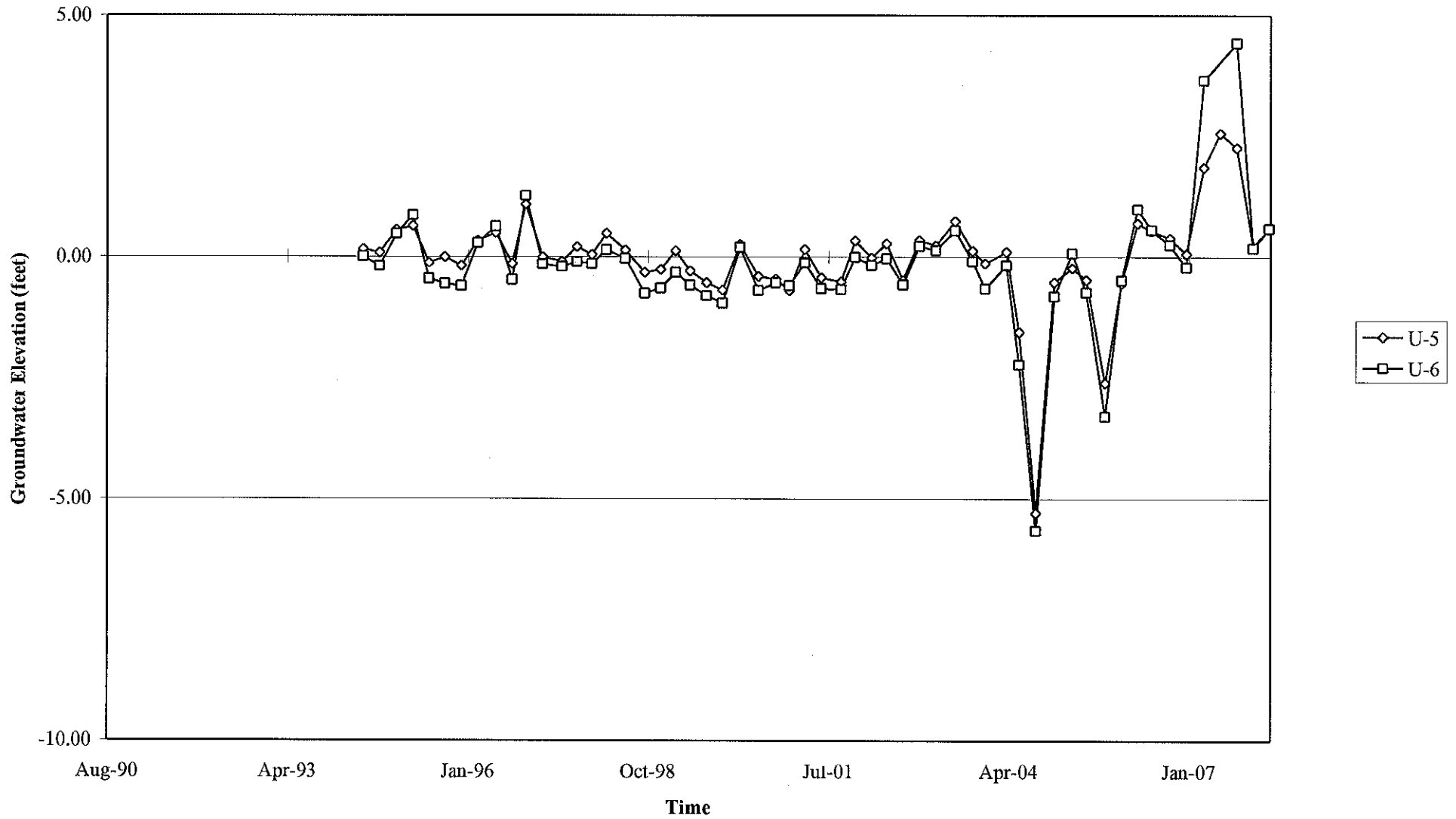


Groundwater Elevations vs. Time  
76 Station 5325



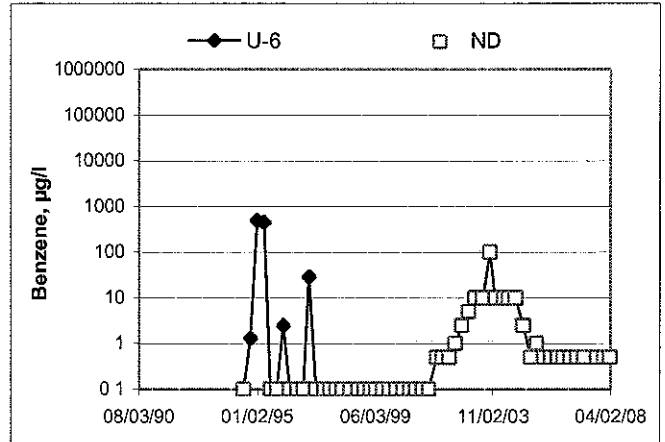
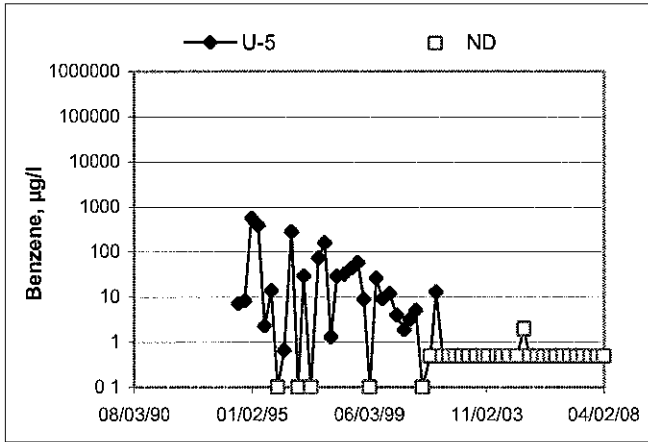
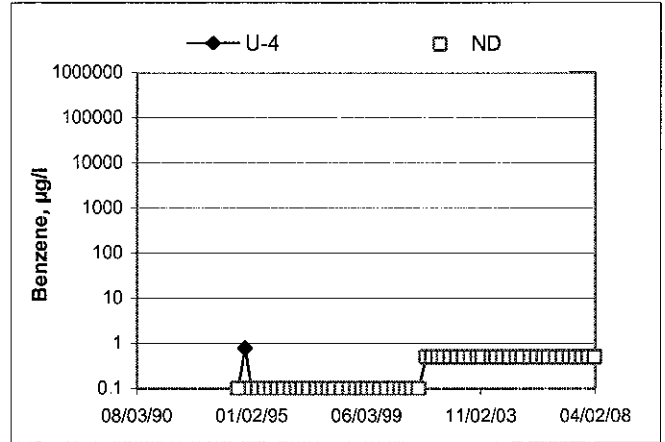
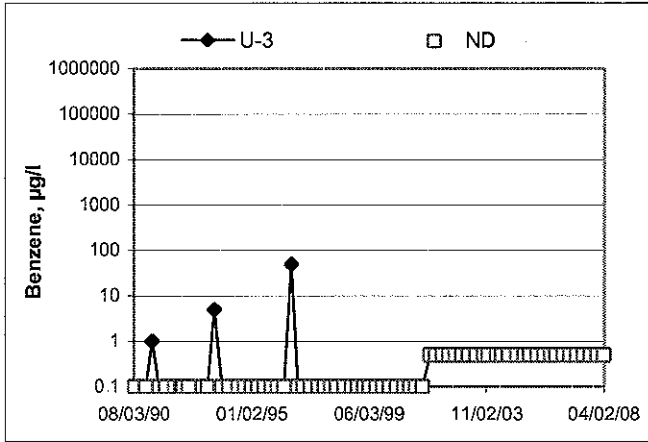
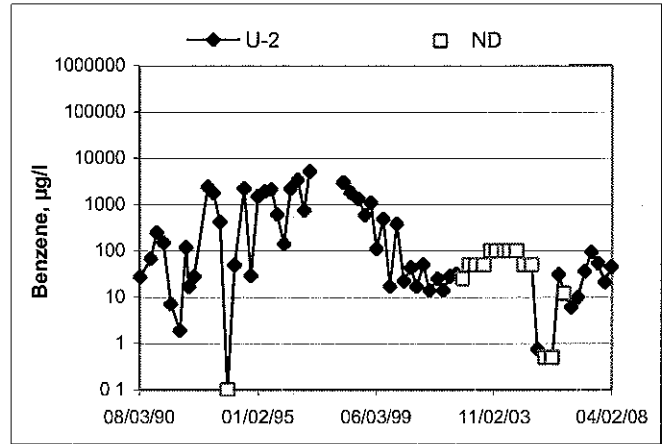
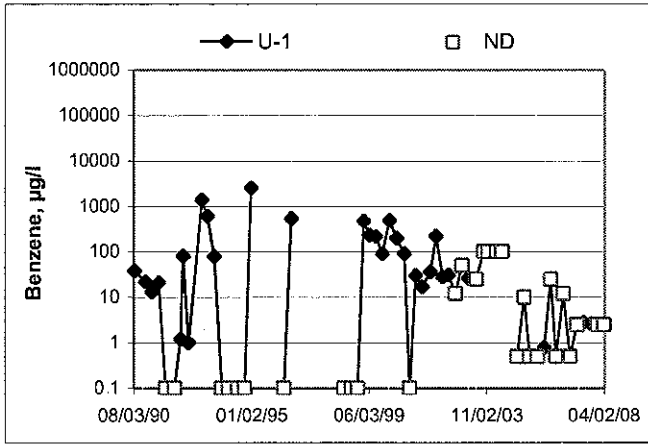
Elevations may have been corrected for apparent changes due to resurvey

Groundwater Elevations vs. Time  
76 Station 5325



Elevations may have been corrected for apparent changes due to resurvey

Benzene Concentrations vs Time  
76 Station 5325



# 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 Vidners

Site: 5375

Project No: 154771

Date: 03/26/08

Well No. AV ~~AA~~ V-4

Purge Method: DIA

Depth to Water (feet): 7.86

Depth to Product (feet):       

Total Depth (feet): 19.53

LPH & Water Recovered (gallons):       

Water Column (feet): 11.67

Casing Diameter (Inches): 4

80% Recharge Depth(feet): ~~4.94~~ 10.19

1 Well Volume (gallons): 8

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	DO	ORP	Turbidity
0629			8	1054	14.1	7.44	2.87	97	
			16	1030	15.1	7.47	3.02	91	
	0633		24	1025	16.8	7.49	3.42	87	
Static at Time Sampled			Total Gallons Purged		Sample Time				
14.81			24		0834				
Comments: <u>Went dry at 24 gallons. Did not recover in 2 hours.</u>									

Well No. V-3

Purge Method: DIA

Depth to Water (feet): ~~AV 19.40~~ 10.84

Depth to Product (feet):       

Total Depth (feet): ~~AV 19.84~~ 19.40

LPH & Water Recovered (gallons):       

Water Column (feet): 8.56

Casing Diameter (Inches): 3

80% Recharge Depth(feet): 12.55

1 Well Volume (gallons): 3

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	DO	ORP	Turbidity
0642			3	916.0	14.9	7.45	1.32	97	
			6	884.8	15.6	7.95	1.84	93	
	0645		9	892.3	15.8	7.96	1.99	89	
Static at Time Sampled			Total Gallons Purged		Sample Time				
11.02			9		0844				
Comments:									

# GROUNDWATER SAMPLING FIELD NOTES

Technician: Andrew Vidners

Site: 5325

Project No.: 154771

Date: 03/26/08

Well No. V-6

Purge Method: DIA

Depth to Water (feet): 6.56

Depth to Product (feet):           

Total Depth (feet): 23.70

LPH & Water Recovered (gallons):           

Water Column (feet): 17.14

Casing Diameter (Inches): 2

80% Recharge Depth(feet): 9.99

1 Well Volume (gallons): 3

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	D.O.	ORP	Turbidity
0700			3	715.1	13.1	8.21	2.74	115	
			6	737.7	14.5	8.01	1.92	122	
	0702		9	656.5	14.5	7.92	2.54	122	
Static at Time Sampled			Total Gallons Purged		Sample Time				
9.99			9		0709				
Comments:									

Well No. V-5

Purge Method: DIA

Depth to Water (feet): 6.41

Depth to Product (feet):           

Total Depth (feet): 20.05

LPH & Water Recovered (gallons):           

Water Column (feet): 13.64

Casing Diameter (Inches): 4

80% Recharge Depth(feet): 9.14

1 Well Volume (gallons): 9

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	D.O.	ORP	Turbidity
0722			9	961.2	13.8	7.22	2.32	-9	
			18	2019	15.5	6.95	1.81	-30	
	0726		27	2533	16.3	6.98	2.03	-49	
Static at Time Sampled			Total Gallons Purged		Sample Time				
8.39			27		0856				
Comments: well went dry @ 27 gallons									



# GROUNDWATER SAMPLING FIELD NOTES

Technician: Andrew Vidners

Site: 5325

Project No.: 154771

Date: 03/26/08

Well No. U-1

Purge Method: DIA

Depth to Water (feet): 7.84

Depth to Product (feet):           

Total Depth (feet): 13.20

LPH & Water Recovered (gallons):           

Water Column (feet): 5.36

Casing Diameter (Inches): 3

80% Recharge Depth(feet): 8.91

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
0735			2	1451	13.9	7.57	3.41	-63	
	0736		4	1025	15.7	7.56	2.84	-71	
			6						
Static at Time Sampled		Total Gallons Purged			Sample Time				
8.17		4			0907				
Comments: well went dry at 4 gallons. Did not recharge in 45 min.									

Well No. U-2

Purge Method: DIA

Depth to Water (feet): 5.62

Depth to Product (feet):           

Total Depth (feet): 19.91

LPH & Water Recovered (gallons):           

Water Column (feet): 14.29

Casing Diameter (Inches): 3

80% Recharge Depth(feet): 8.48

1 Well Volume (gallons): 5

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	D.O.	ORP	Turbidity
0747			5	1118	12.5	7.40	3.41	-65	
			10	1765	15.0	7.25	3.52	-68	
	0752		15	1939	15.9	7.34	3.47	-80	
Static at Time Sampled		Total Gallons Purged			Sample Time				
13.82		15			0953				
Comments: Well started to go dry at 12 gallons, was able to purge 15. D.I.A not recover in 2 hours									



LABORATORIES, INC.

Date of Report: 04/07/2008

Anju Farfan

TRC

21 Technology Drive  
Irvine, CA 92618

RE: 5325

BC Work Order: 0803980

Enclosed are the results of analyses for samples received by the laboratory on 03/26/2008 20:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Molly Meyers".

Contact Person: Molly Meyers  
Client Service Rep

A stylized, handwritten signature in black ink, consisting of several sweeping strokes.

Authorized Signature

TRC  
21 Technology Drive  
Irvine, CA 92618

Project: 5325  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 04/07/2008 16:04

## Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
0803980-01	<b>COC Number:</b> --- <b>Project Number:</b> 5325 <b>Sampling Location:</b> U-4 <b>Sampling Point:</b> U-4 <b>Sampled By:</b> TRCI	<b>Receive Date:</b> 03/26/2008 20:40 <b>Sampling Date:</b> 03/26/2008 08:34 <b>Sample Depth:</b> --- <b>Sample Matrix:</b> Water	<b>Delivery Work Order:</b> Global ID: T0600101463 Matrix: W Sample QC Type (SACode): CS Cooler ID:
0803980-02	<b>COC Number:</b> --- <b>Project Number:</b> 5325 <b>Sampling Location:</b> U-3 <b>Sampling Point:</b> U-3 <b>Sampled By:</b> TRCI	<b>Receive Date:</b> 03/26/2008 20:40 <b>Sampling Date:</b> 03/26/2008 08:44 <b>Sample Depth:</b> --- <b>Sample Matrix:</b> Water	<b>Delivery Work Order:</b> Global ID: T0600101463 Matrix: W Sample QC Type (SACode): CS Cooler ID:
0803980-03	<b>COC Number:</b> --- <b>Project Number:</b> 5325 <b>Sampling Location:</b> U-6 <b>Sampling Point:</b> U-6 <b>Sampled By:</b> TRCI	<b>Receive Date:</b> 03/26/2008 20:40 <b>Sampling Date:</b> 03/26/2008 07:09 <b>Sample Depth:</b> --- <b>Sample Matrix:</b> Water	<b>Delivery Work Order:</b> Global ID: T0600101463 Matrix: W Sample QC Type (SACode): CS Cooler ID:
0803980-04	<b>COC Number:</b> --- <b>Project Number:</b> 5325 <b>Sampling Location:</b> U-5 <b>Sampling Point:</b> U-5 <b>Sampled By:</b> TRCI	<b>Receive Date:</b> 03/26/2008 20:40 <b>Sampling Date:</b> 03/26/2008 08:56 <b>Sample Depth:</b> --- <b>Sample Matrix:</b> Water	<b>Delivery Work Order:</b> Global ID: T0600101463 Matrix: W Sample QC Type (SACode): CS Cooler ID:
0803980-05	<b>COC Number:</b> --- <b>Project Number:</b> 5325 <b>Sampling Location:</b> U-1 <b>Sampling Point:</b> U-1 <b>Sampled By:</b> TRCI	<b>Receive Date:</b> 03/26/2008 20:40 <b>Sampling Date:</b> 03/26/2008 09:07 <b>Sample Depth:</b> --- <b>Sample Matrix:</b> Water	<b>Delivery Work Order:</b> Global ID: T0600101463 Matrix: W Sample QC Type (SACode): CS Cooler ID:

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Project: 5325  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 04/07/2008 16:04

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information																														
0803980-06	<table><tr><td><b>COC Number:</b></td><td>---</td><td><b>Receive Date:</b></td><td>03/26/2008 20:40</td><td><b>Delivery Work Order:</b></td><td></td></tr><tr><td><b>Project Number:</b></td><td>5325</td><td><b>Sampling Date:</b></td><td>03/26/2008 09:53</td><td><b>Global ID:</b></td><td>T0600101463</td></tr><tr><td><b>Sampling Location:</b></td><td>U-2</td><td><b>Sample Depth:</b></td><td>---</td><td><b>Matrix:</b></td><td>W</td></tr><tr><td><b>Sampling Point:</b></td><td>U-2</td><td><b>Sample Matrix:</b></td><td>Water</td><td><b>Sample QC Type (SACode):</b></td><td>CS</td></tr><tr><td><b>Sampled By:</b></td><td>TRCI</td><td></td><td></td><td><b>Cooler ID:</b></td><td></td></tr></table>	<b>COC Number:</b>	---	<b>Receive Date:</b>	03/26/2008 20:40	<b>Delivery Work Order:</b>		<b>Project Number:</b>	5325	<b>Sampling Date:</b>	03/26/2008 09:53	<b>Global ID:</b>	T0600101463	<b>Sampling Location:</b>	U-2	<b>Sample Depth:</b>	---	<b>Matrix:</b>	W	<b>Sampling Point:</b>	U-2	<b>Sample Matrix:</b>	Water	<b>Sample QC Type (SACode):</b>	CS	<b>Sampled By:</b>	TRCI			<b>Cooler ID:</b>	
<b>COC Number:</b>	---	<b>Receive Date:</b>	03/26/2008 20:40	<b>Delivery Work Order:</b>																											
<b>Project Number:</b>	5325	<b>Sampling Date:</b>	03/26/2008 09:53	<b>Global ID:</b>	T0600101463																										
<b>Sampling Location:</b>	U-2	<b>Sample Depth:</b>	---	<b>Matrix:</b>	W																										
<b>Sampling Point:</b>	U-2	<b>Sample Matrix:</b>	Water	<b>Sample QC Type (SACode):</b>	CS																										
<b>Sampled By:</b>	TRCI			<b>Cooler ID:</b>																											



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Project Number: [none]  
Project Manager: Anju Farfan

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## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0803980-01		Client Sample Name: 5325, U-4, U-4, 3/26/2008 8:34:00AM												
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	04/02/08	04/03/08 00:45	SDU	MS-V10	1	BRD0150	ND		
Ethylbenzene	ND	ug/L	0.50		EPA-8260	04/02/08	04/03/08 00:45	SDU	MS-V10	1	BRD0150	ND		
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	04/02/08	04/03/08 00:45	SDU	MS-V10	1	BRD0150	ND		
Toluene	ND	ug/L	0.50		EPA-8260	04/02/08	04/03/08 00:45	SDU	MS-V10	1	BRD0150	ND		
Total Xylenes	ND	ug/L	1.0		EPA-8260	04/02/08	04/03/08 00:45	SDU	MS-V10	1	BRD0150	ND		
Ethanol	ND	ug/L	250		EPA-8260	04/02/08	04/03/08 00:45	SDU	MS-V10	1	BRD0150	ND		
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	04/02/08	04/03/08 00:45	SDU	MS-V10	1	BRD0150	ND		
1,2-Dichloroethane-d4 (Surrogate)	97.3	%	76 - 114 (LCL - UCL)		EPA-8260	04/02/08	04/03/08 00:45	SDU	MS-V10	1	BRD0150			
Toluene-d8 (Surrogate)	96.9	%	88 - 110 (LCL - UCL)		EPA-8260	04/02/08	04/03/08 00:45	SDU	MS-V10	1	BRD0150			
4-Bromofluorobenzene (Surrogate)	102	%	86 - 115 (LCL - UCL)		EPA-8260	04/02/08	04/03/08 00:45	SDU	MS-V10	1	BRD0150			



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Project: 5325  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 04/07/2008 16:04

### Water Analysis (General Chemistry)

BCL Sample ID: 0803980-01		Client Sample Name: 5325, U-4, U-4, 3/26/2008 8:34:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Nitrate as N	5.6	mg/L	0.10		EPA-300.0	03/27/08	03/27/08 13:27	LMB	IC2	1	BRC1684	ND	
Iron (II) Species	160	ug/L	100		SM-3500-Fe	03/28/08	03/28/08 01:30	MRM	SPEC05	1	BRC1728	ND	
ortho-Phosphate	0.38	mg/L	0.050		EPA-365.1	03/27/08	03/27/08 08:48	TDC	KONE-1	1	BRC1786	ND	



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Project Manager: Anju Farfan

Reported: 04/07/2008 16:04

## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0803980-02												
Client Sample Name:	5325, U-3, U-3, 3/26/2008 8:44:00AM												
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	04/02/08	04/03/08 01:03	SDU	MS-V10	1	BRD0150	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	04/02/08	04/03/08 01:03	SDU	MS-V10	1	BRD0150	ND	
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	04/02/08	04/03/08 01:03	SDU	MS-V10	1	BRD0150	ND	
Toluene	ND	ug/L	0.50		EPA-8260	04/02/08	04/03/08 01:03	SDU	MS-V10	1	BRD0150	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	04/02/08	04/03/08 01:03	SDU	MS-V10	1	BRD0150	ND	
Ethanol	ND	ug/L	250		EPA-8260	04/02/08	04/03/08 01:03	SDU	MS-V10	1	BRD0150	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	04/02/08	04/03/08 01:03	SDU	MS-V10	1	BRD0150	ND	
1,2-Dichloroethane-d4 (Surrogate)	97.3	%		76 - 114 (LCL - UCL)	EPA-8260	04/02/08	04/03/08 01:03	SDU	MS-V10	1	BRD0150		
Toluene-d8 (Surrogate)	95.6	%		88 - 110 (LCL - UCL)	EPA-8260	04/02/08	04/03/08 01:03	SDU	MS-V10	1	BRD0150		
4-Bromofluorobenzene (Surrogate)	100	%		86 - 115 (LCL - UCL)	EPA-8260	04/02/08	04/03/08 01:03	SDU	MS-V10	1	BRD0150		

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 Project: 5325  
 Project Number: [none]  
 Project Manager: Anju Farfan

Reported: 04/07/2008 16:04

## Water Analysis (General Chemistry)

BCL Sample ID:	0803980-02		Client Sample Name:	5325, U-3, U-3, 3/26/2008 8:44:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Nitrate as N	5.1	mg/L	0.10		EPA-300.0	03/27/08	03/27/08 14:43	LMB	IC2	1	BRC1684	ND		
Iron (II) Species	190	ug/L	100		SM-3500-Fe	03/28/08	03/28/08 01:30	MRM	SPEC05	1	BRC1728	ND		
ortho-Phosphate	0.64	mg/L	0.050		EPA-365.1	03/27/08	03/27/08 08:48	TDC	KONE-1	1	BRC1786	ND		



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 Project: 5325  
 Project Number: [none]  
 Project Manager: Anju Farfan

Reported: 04/07/2008 16:04

## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0803980-03		Client Sample Name: 5325, U-6, U-6, 3/26/2008 7:09:00AM											
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	04/02/08	04/03/08 01:21	SDU	MS-V10	1	BRD0150	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	04/02/08	04/03/08 01:21	SDU	MS-V10	1	BRD0150	ND	
Methyl t-butyl ether	2.3	ug/L	0.50		EPA-8260	04/02/08	04/03/08 01:21	SDU	MS-V10	1	BRD0150	ND	
Toluene	ND	ug/L	0.50		EPA-8260	04/02/08	04/03/08 01:21	SDU	MS-V10	1	BRD0150	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	04/02/08	04/03/08 01:21	SDU	MS-V10	1	BRD0150	ND	
Ethanol	ND	ug/L	250		EPA-8260	04/02/08	04/03/08 01:21	SDU	MS-V10	1	BRD0150	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	04/02/08	04/03/08 01:21	SDU	MS-V10	1	BRD0150	ND	
1,2-Dichloroethane-d4 (Surrogate)	102	%	76 - 114 (LCL - UCL)		EPA-8260	04/02/08	04/03/08 01:21	SDU	MS-V10	1	BRD0150		
Toluene-d8 (Surrogate)	94.9	%	88 - 110 (LCL - UCL)		EPA-8260	04/02/08	04/03/08 01:21	SDU	MS-V10	1	BRD0150		
4-Bromofluorobenzene (Surrogate)	101	%	86 - 115 (LCL - UCL)		EPA-8260	04/02/08	04/03/08 01:21	SDU	MS-V10	1	BRD0150		



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Project: 5325  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 04/07/2008 16:04

## Water Analysis (General Chemistry)

BCL Sample ID: 0803980-03	Client Sample Name: 5325, U-6, U-6, 3/26/2008 7:09:00AM												
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Nitrate as N	ND	mg/L	0.10		EPA-300.0	03/27/08	03/27/08 14:56	LMB	IC2	1	BRC1684	ND	
Iron (II) Species	19000	ug/L	500		SM-3500-F	03/28/08	03/28/08 01:30	MRM	SPEC05	5	BRC1728	ND	A01
ortho-Phosphate	1.2	mg/L	0.050		EPA-365.1	03/27/08	03/27/08 08:48	TDC	KONE-1	1	BRC1786	ND	

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 Project: 5325  
 Project Number: [none]  
 Project Manager: Anju Farfan

Reported: 04/07/2008 16:04

## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0803980-04		Client Sample Name:	5325, U-5, U-5, 3/26/2008 8:56:00AM									
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	04/02/08	04/03/08 01:39	SDU	MS-V10	1	BRD0150	ND	
Ethylbenzene	1.3	ug/L	0.50		EPA-8260	04/02/08	04/03/08 01:39	SDU	MS-V10	1	BRD0150	ND	
Methyl t-butyl ether	27	ug/L	0.50		EPA-8260	04/02/08	04/03/08 01:39	SDU	MS-V10	1	BRD0150	ND	
Toluene	0.64	ug/L	0.50		EPA-8260	04/02/08	04/03/08 01:39	SDU	MS-V10	1	BRD0150	ND	
Total Xylenes	1.0	ug/L	1.0		EPA-8260	04/02/08	04/03/08 01:39	SDU	MS-V10	1	BRD0150	ND	
Ethanol	ND	ug/L	250		EPA-8260	04/02/08	04/03/08 01:39	SDU	MS-V10	1	BRD0150	ND	
Total Purgeable Petroleum Hydrocarbons	310	ug/L	50		EPA-8260	04/02/08	04/03/08 01:39	SDU	MS-V10	1	BRD0150	ND	
1,2-Dichloroethane-d4 (Surrogate)	102	%	76 - 114 (LCL - UCL)		EPA-8260	04/02/08	04/03/08 01:39	SDU	MS-V10	1	BRD0150		
Toluene-d8 (Surrogate)	95.8	%	88 - 110 (LCL - UCL)		EPA-8260	04/02/08	04/03/08 01:39	SDU	MS-V10	1	BRD0150		
4-Bromofluorobenzene (Surrogate)	99.3	%	86 - 115 (LCL - UCL)		EPA-8260	04/02/08	04/03/08 01:39	SDU	MS-V10	1	BRD0150		



TRC  
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Irvine, CA 92618

Project: 5325  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 04/07/2008 16:04

### Water Analysis (General Chemistry)

BCL Sample ID: 0803980-04    Client Sample Name: 5325, U-5, U-5, 3/26/2008 8:56:00AM

Constituent	Result	Units	PQL	MDL	Method	Prep	Run	Analyst	Instru-	Dilution	QC	MB	Lab
						Date	Date/Time		ment ID		Batch ID	Bias	Quals
Nitrate as N	ND	mg/L	0.20		EPA-300.0	03/27/08	03/27/08 15:08	LMB	IC2	2	BRC1684	ND	A01
Iron (II) Species	10000	ug/L	500		SM-3500-Fe	03/28/08	03/28/08 01:30	MRM	SPEC05	5	BRC1728	ND	A01
ortho-Phosphate	ND	mg/L	0.050		EPA-365.1	03/27/08	03/27/08 08:48	TDC	KONE-1	1	BRC1786	ND	



TRC  
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Irvine, CA 92618

Project: 5325  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 04/07/2008 16:04

## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0803980-05		Client Sample Name: 5325, U-1, U-1, 3/26/2008 9:07:00AM											
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	2.5		EPA-8260	04/02/08	04/02/08 16:10	SDU	MS-V10	5	BRD0150	ND	A01
Ethylbenzene	100	ug/L	2.5		EPA-8260	04/02/08	04/02/08 16:10	SDU	MS-V10	5	BRD0150	ND	A01
Methyl t-butyl ether	30	ug/L	2.5		EPA-8260	04/02/08	04/02/08 16:10	SDU	MS-V10	5	BRD0150	ND	A01
Toluene	ND	ug/L	2.5		EPA-8260	04/02/08	04/02/08 16:10	SDU	MS-V10	5	BRD0150	ND	A01
Total Xylenes	18	ug/L	5.0		EPA-8260	04/02/08	04/02/08 16:10	SDU	MS-V10	5	BRD0150	ND	A01
Ethanol	ND	ug/L	1200		EPA-8260	04/02/08	04/02/08 16:10	SDU	MS-V10	5	BRD0150	ND	A01
Total Purgeable Petroleum Hydrocarbons	3500	ug/L	250		EPA-8260	04/02/08	04/02/08 16:10	SDU	MS-V10	5	BRD0150	ND	A01
1,2-Dichloroethane-d4 (Surrogate)	101	%	76 - 114 (LCL - UCL)		EPA-8260	04/02/08	04/02/08 16:10	SDU	MS-V10	5	BRD0150		
Toluene-d8 (Surrogate)	90.7	%	88 - 110 (LCL - UCL)		EPA-8260	04/02/08	04/02/08 16:10	SDU	MS-V10	5	BRD0150		
4-Bromofluorobenzene (Surrogate)	93.3	%	86 - 115 (LCL - UCL)		EPA-8260	04/02/08	04/02/08 16:10	SDU	MS-V10	5	BRD0150		

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 Project: 5325  
 Project Number: [none]  
 Project Manager: Anju Farfan

Reported: 04/07/2008 16:04

## Water Analysis (General Chemistry)

BCL Sample ID:	0803980-05		Client Sample Name:	5325, U-1, U-1, 3/26/2008 9:07:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Nitrate as N	ND	mg/L	0.10		EPA-300.0	03/27/08	03/27/08 15:21	LMB	IC2	1	BRC1684	ND		
Iron (II) Species	23000	ug/L	500		SM-3500-Fe	03/28/08	03/28/08 01:30	MRM	SPEC05	5	BRC1728	ND	A01	
ortho-Phosphate	0.12	mg/L	0.050		EPA-365.1	03/27/08	03/27/08 08:48	TDC	KONE-1	1	BRC1786	ND		



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Reported: 04/07/2008 16:04

## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0803980-06		Client Sample Name: 5325, U-2, U-2, 3/26/2008 9:53:00AM												
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Benzene	45	ug/L	2.5		EPA-8260	04/02/08	04/02/08 16:28	SDU	MS-V10	5	BRD0150	ND	A01	
Ethylbenzene	210	ug/L	2.5		EPA-8260	04/02/08	04/02/08 16:28	SDU	MS-V10	5	BRD0150	ND	A01	
Methyl t-butyl ether	580	ug/L	5.0		EPA-8260	04/02/08	04/03/08 12:50	SDU	MS-V10	10	BRD0150	ND	A01	
Toluene	ND	ug/L	2.5		EPA-8260	04/02/08	04/02/08 16:28	SDU	MS-V10	5	BRD0150	ND	A01	
Total Xylenes	77	ug/L	5.0		EPA-8260	04/02/08	04/02/08 16:28	SDU	MS-V10	5	BRD0150	ND	A01	
Ethanol	ND	ug/L	1200		EPA-8260	04/02/08	04/02/08 16:28	SDU	MS-V10	5	BRD0150	ND	A01	
Total Purgeable Petroleum Hydrocarbons	4300	ug/L	250		EPA-8260	04/02/08	04/02/08 16:28	SDU	MS-V10	5	BRD0150	ND	A01	
1,2-Dichloroethane-d4 (Surrogate)	101	%	76 - 114 (LCL - UCL)		EPA-8260	04/02/08	04/02/08 16:28	SDU	MS-V10	5	BRD0150			
1,2-Dichloroethane-d4 (Surrogate)	101	%	76 - 114 (LCL - UCL)		EPA-8260	04/02/08	04/03/08 12:50	SDU	MS-V10	10	BRD0150			
Toluene-d8 (Surrogate)	95.6	%	88 - 110 (LCL - UCL)		EPA-8260	04/02/08	04/03/08 12:50	SDU	MS-V10	10	BRD0150			
Toluene-d8 (Surrogate)	96.1	%	88 - 110 (LCL - UCL)		EPA-8260	04/02/08	04/02/08 16:28	SDU	MS-V10	5	BRD0150			
4-Bromofluorobenzene (Surrogate)	91.1	%	86 - 115 (LCL - UCL)		EPA-8260	04/02/08	04/02/08 16:28	SDU	MS-V10	5	BRD0150			
4-Bromofluorobenzene (Surrogate)	97.3	%	86 - 115 (LCL - UCL)		EPA-8260	04/02/08	04/03/08 12:50	SDU	MS-V10	10	BRD0150			



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Project: 5325  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 04/07/2008 16:04

## Water Analysis (General Chemistry)

BCL Sample ID: 0803980-06	Client Sample Name: 5325, U-2, U-2, 3/26/2008 9:53:00AM												
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru- ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Nitrate as N	ND	mg/L	0.10		EPA-300.0	03/27/08	03/27/08 17:15	LMB	IC2	1	BRC1684	ND	
Iron (II) Species	11000	ug/L	500		SM-3500-F	03/28/08	03/28/08 01:30	MRM	SPEC05	5	BRC1729	ND	A01
ortho-Phosphate	ND	mg/L	0.050		EPA-365.1	03/27/08	03/27/08 08:48	TDC	KONE-1	1	BRC1786	ND	





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Project: 5325  
Project Number: [none]  
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Reported: 04/07/2008 16:04

## 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	BRD0150	Matrix Spike	0803961-01	0.11000	25.700	25.000	ug/L		102		70 - 130
		Matrix Spike Duplicate	0803961-01	0.11000	26.910	25.000	ug/L	4.8	107	20	70 - 130
Toluene	BRD0150	Matrix Spike	0803961-01	0.22000	26.390	25.000	ug/L		105		70 - 130
		Matrix Spike Duplicate	0803961-01	0.22000	26.750	25.000	ug/L	0.9	106	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	BRD0150	Matrix Spike	0803961-01	ND	9.7000	10.000	ug/L		97.0		76 - 114
		Matrix Spike Duplicate	0803961-01	ND	9.9400	10.000	ug/L		99.4		76 - 114
Toluene-d8 (Surrogate)	BRD0150	Matrix Spike	0803961-01	ND	9.8300	10.000	ug/L		98.3		88 - 110
		Matrix Spike Duplicate	0803961-01	ND	9.8400	10.000	ug/L		98.4		88 - 110
4-Bromofluorobenzene (Surrogate)	BRD0150	Matrix Spike	0803961-01	ND	10.220	10.000	ug/L		102		86 - 115
		Matrix Spike Duplicate	0803961-01	ND	10.010	10.000	ug/L		100		86 - 115

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 Project: 5325  
 Project Number: [none]  
 Project Manager: Anju Farfan

Reported: 04/07/2008 16:04

## Water Analysis (General Chemistry)

### Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits	
										RPD	Percent Recovery Lab Quals
Nitrate as N	BRC1684	Duplicate	0803980-01	5.5640	5.5210		mg/L	0.8		10	
		Matrix Spike	0803980-01	5.5640	10.721	5.0505	mg/L		102		80 - 120
		Matrix Spike Duplicate	0803980-01	5.5640	10.757	5.0505	mg/L	1.0	103	10	80 - 120
Iron (II) Species	BRC1728	Duplicate	0803979-07	227.85	236.39		ug/L	3.7		10	
Iron (II) Species	BRC1729	Duplicate	0803980-06	10832	10874		ug/L	0.4		10	A01
ortho-Phosphate	BRC1786	Duplicate	0803980-01	0.38026	0.37654		mg/L	1.0		10	
		Matrix Spike	0803980-01	0.38026	1.0050	0.64547	mg/L		96.8		90 - 110
		Matrix Spike Duplicate	0803980-01	0.38026	1.0193	0.64547	mg/L	2.2	99.0	10	90 - 110

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Project: 5325  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 04/07/2008 16:04

## 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	BRD0150	BRD0150-BS1	LCS	26.380	25.000	0.50	ug/L	106		70 - 130		
Toluene	BRD0150	BRD0150-BS1	LCS	27.230	25.000	0.50	ug/L	109		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BRD0150	BRD0150-BS1	LCS	9.6800	10.000		ug/L	96.8		76 - 114		
Toluene-d8 (Surrogate)	BRD0150	BRD0150-BS1	LCS	9.9600	10.000		ug/L	99.6		88 - 110		
4-Bromofluorobenzene (Surrogate)	BRD0150	BRD0150-BS1	LCS	10.350	10.000		ug/L	104		86 - 115		

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Reported: 04/07/2008 16:04

## Water Analysis (General Chemistry)

### Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
Nitrate as N	BRC1684	BRC1684-BS1	LCS	5.2670	5.0000	0.10	mg/L	105		90 - 110	
Iron (II) Species	BRC1728	BRC1728-BS1	LCS	1910.1	2000.0	100	ug/L	95.5		90 - 110	
Iron (II) Species	BRC1729	BRC1729-BS1	LCS	1910.1	2000.0	100	ug/L	95.5		90 - 110	
ortho-Phosphate	BRC1786	BRC1786-BS1	LCS	0.60448	0.61320	0.050	mg/L	98.6		90 - 110	

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Project: 5325  
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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	BRD0150	BRD0150-BLK1	ND	ug/L	0.50		
Ethylbenzene	BRD0150	BRD0150-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BRD0150	BRD0150-BLK1	ND	ug/L	0.50		
Toluene	BRD0150	BRD0150-BLK1	ND	ug/L	0.50		
Total Xylenes	BRD0150	BRD0150-BLK1	ND	ug/L	1.0		
Ethanol	BRD0150	BRD0150-BLK1	ND	ug/L	1000		
Total Purgeable Petroleum Hydrocarbons	BRD0150	BRD0150-BLK1	ND	ug/L	50		
1,2-Dichloroethane-d4 (Surrogate)	BRD0150	BRD0150-BLK1	101	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BRD0150	BRD0150-BLK1	98.6	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BRD0150	BRD0150-BLK1	101	%	86 - 115 (LCL - UCL)		

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Project: 5325  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 04/07/2008 16:04

## Water Analysis (General Chemistry) Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Nitrate as N	BRC1684	BRC1684-BLK1	ND	mg/L	0.10		
Iron (II) Species	BRC1728	BRC1728-BLK1	ND	ug/L	100		
Iron (II) Species	BRC1729	BRC1729-BLK1	ND	ug/L	100		
ortho-Phosphate	BRC1786	BRC1786-BLK1	ND	mg/L	0.050		

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Project: 5325  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 04/07/2008 16:04

### 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 #: 0803980

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: Green  
 Temperature: A. 10.7°C  
 Thermometer ID: 48

Emissivity 95  
 Container PE

Date/Time 3/26 2005  
 Analyst Init JNW

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED	C	C	C	C	C					
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE /NITRITE										
100ml TOTAL ORGANIC CARBON										
QT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A.3	A.3	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 508/608/808										
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										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON	B	B	B	B	B	B				
ENCORE										

Comments: -2 VOA's labeled U-4, time matches -2.  
 Sample Numbering Completed By: JNW Date/Time: 3/26 2005



BC LABORATORIES, INC.

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

CHAIN OF CUSTODY

0803980

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	BTEX/MTBE by 8260B	Nitrate, Ortho-Phosphate	Ferrous Iron	Turnaround Time Requested
Address: 3220 Lakeshore Ave.		21 Technology Drive Irvine, CA 92618-2302 Attn: Anju Farfan													
City: Oakland,		4-digit site#: 5325													
State: CA Zip:		Workorder # 01394-4509117920													
Conoco Phillips Mgr: Bill Borgh		Project #: 154771													
Lab#		Sample Description		Field Point Name		Date & Time Sampled									
CHK BY		DISTRIBUTION													
Ad		U-4		03/26/08 0834		GW									
		SUB-OUT <input type="checkbox"/> 2		U-3		0844									
		-3 U-6		0709											
		-4 U-5		0856											
		-5 U-1		0907											
SHORT HOLDING TIME		-6 U-2		0953											
Cr <sup>+6</sup> NO <sub>2</sub> (NO <sub>3</sub> ) (OP) SS															
DO Cl <sub>2</sub> BOD MBAS COT															

Comments: Run 8 OXYS by 8260 on all MTBE hits  GLOBAL ID: T0600101463	Relinquished by: (Signature) <i>[Signature]</i>	Received by: stored in fridge	Date & Time 03/26/08 1255
	Relinquished by: (Signature) <i>[Signature]</i>	Received by: <i>[Signature]</i>	Date & Time 3/26/08 1400
	Relinquished by: (Signature) <i>[Signature]</i>	Received by: <i>[Signature]</i>	Date & Time 3-26-08 1800

*[Signature]* 3-26-08 2040 *[Signature]* 3-26-8 2040

## 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.