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2:25 pm, Oct 17, 2008

Alameda County  
Environmental Health

DATE: April 23, 2007

TO: ConocoPhillips Company  
76 Broadway  
Sacramento, CA 95818

ATTN: MR. ERIC HETRICK

SITE: 76 STATION 6419  
6401 DUBLIN BOULEVARD  
DUBLIN, CALIFORNIA

RE: SEMI-ANNUAL MONITORING REPORT  
OCTOBER 2006 THROUGH MARCH 2007

Dear Mr. Hetrick:

Please find enclosed our Semi-Annual Monitoring Report for 76 Station 6419, located at 6401 Dublin Boulevard, Dublin, California. If you have any questions regarding this report, please call us at (949) 727-9336.

Sincerely,

TRC

A handwritten signature in black ink, appearing to read 'Anju Farfan', written over a horizontal line.

Anju Farfan  
Groundwater Program Operations Manager

CC: Mr. Keith Woodburne, TRC (2 copies)

Enclosures  
20-0400/6419R08.QMS

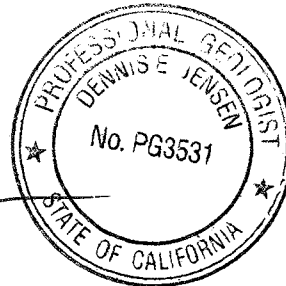
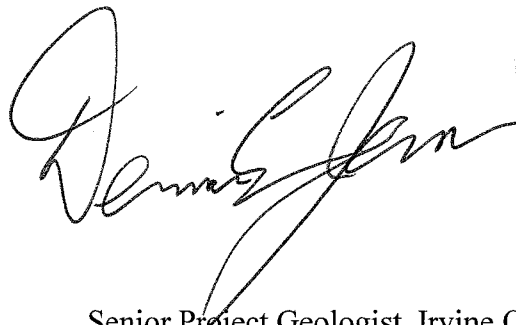
**SEMI-ANNUAL MONITORING REPORT  
OCTOBER 2006 THROUGH MARCH 2007**

76 STATION 6419  
6401 Dublin Boulevard  
Dublin, California

Prepared For:

Mr. Eric Hetrick  
ConocoPhillips Company  
76 Broadway  
Sacramento, California 95818

By:



Senior Project Geologist, Irvine Operations  
April 20, 2007



## LIST OF ATTACHMENTS

Summary Sheet	Summary of Gauging and Sampling Activities
Tables	Table Key Contents of Tables Table 1: Current Fluid Levels and Selected Analytical Results Table 1a: Additional Current Analytical Results Table 2: Historic Fluid Levels and Selected Analytical Results Table 2a: Additional Historic Analytical Results
Figures	Figure 1: Vicinity Map Figure 2: Groundwater Elevation Contour Map Figure 3: Dissolved-Phase TPH-G (GC/MS) Concentration Map Figure 4: Dissolved-Phase Benzene Concentration Map Figure 5: Dissolved-Phase MTBE Concentration Map
Graphs	Groundwater Elevations vs. Time Benzene Concentrations vs. Time
Field Activities	General Field Procedures Field Monitoring Data Sheet – 3/29/07 Groundwater Sampling Field Notes – 3/29/07
Laboratory Reports	Official Laboratory Reports Quality Control Reports Chain of Custody Records
Statements	Purge Water Disposal Limitations

**Summary of Gauging and Sampling Activities**  
**October 2006 through March 2007**  
**76 Station 6419**  
**6401 Dublin Boulevard**  
**Dublin, CA**

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Project Coordinator: **Eric Hetrick**  
Telephone: **916-558-7604**

Water Sampling Contractor: **TRC**  
Compiled by: **Daniel Lee**

Date(s) of Gauging/Sampling Event: **03/29/07**

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**Sample Points**

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

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**Liquid Phase Hydrocarbons (LPH)**

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

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**Hydrogeologic Parameters**

Depth to groundwater (below TOC):      Minimum: **8.38 feet**      Maximum: **8.82 feet**  
Average groundwater elevation (relative to available local datum): **321.64 feet**  
Average change in groundwater elevation since previous event: **-0.28 feet**  
Interpreted groundwater gradient and flow direction:  
    Current event: **0.01 ft/ft, west**  
    Previous event: **0.01 ft/ft, west (09/27/06)**

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**Selected Laboratory Results**

Wells with detected **Benzene**: **0**      Wells above MCL (1.0 µg/l): **n/a**  
    Maximum reported benzene concentration: **n/a**

Wells with **TPH-G by GC/MS**      **2**      Maximum: **520 µg/l (MW-5)**  
Wells with **MTBE 8260B**      **2**      Maximum: **690 µg/l (MW-5)**

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**Notes:**

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# TABLES

## TABLE KEY

### STANDARD ABBREVIATIONS

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

### ANALYTES

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

### NOTES

1. Elevations are in feet above mean sea level. Depths are in feet below surveyed top-of-casing.
2. Groundwater elevations for wells with LPH are calculated as: Surface Elevation – Measured Depth to Water + (Dp x 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 6419 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 6419

### 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)
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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	TPH-D	TBA	Ethanol (8260B)	Ethylene- dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	Cadmium (dissolved)	Chromium (total)	Lead (total)	Nickel	Zinc (total)	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen
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**Table 1**  
**CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**March 29, 2007**  
**76 Station 6419**

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)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
<b>MW-1</b>		<b>(Screen Interval in feet: 4.0-19.0)</b>												
03/29/07	330.17	8.38	0.00	321.79	-0.33	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
<b>MW-3</b>		<b>(Screen Interval in feet: 4.0-20.0)</b>												
03/29/07	330.59	8.82	0.00	321.77	-0.28	--	230	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	230	
<b>MW-5</b>		<b>(Screen Interval in feet: 4.0-19.0)</b>												
03/29/07	330.18	8.82	0.00	321.36	-0.22	--	520	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	690	



**Table 1 a**  
**ADDITIONAL CURRENT ANALYTICAL RESULTS**  
**76 Station 6419**

Date Sampled	Ethanol (8260B)
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( $\mu\text{g/l}$ )

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**MW-1**

03/29/07 ND<250

**MW-3**

03/29/07 ND<250

**MW-5**

03/29/07 ND<250

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**March 1994 Through March 2007**  
**76 Station 6419**

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)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
<b>MW-1 (Screen Interval in feet: 4.0-19.0)</b>														
03/14/94	330.45	7.27	0.00	323.18	--	1800	--	17	ND	ND	ND	--	--	
08/25/94	330.45	8.57	0.00	321.88	-1.30	9200	--	48	ND	540	ND	--	--	
09/30/94	330.45	8.78	0.00	321.67	-0.21	--	--	--	--	--	--	--	--	
10/20/94	330.45	8.98	0.00	321.47	-0.20	--	--	--	--	--	--	--	--	
11/18/94	330.45	7.69	0.00	322.76	1.29	5100	--	33	ND	560	38	--	--	
12/20/94	330.45	7.58	0.00	322.87	0.11	--	--	--	--	--	--	--	--	
01/17/95	330.45	6.03	0.00	324.42	1.55	--	--	--	--	--	--	--	--	
02/15/95	330.45	6.29	0.00	324.16	-0.26	3300	--	13	ND	180	5.2	--	--	
03/13/95	330.45	5.64	0.00	324.81	0.65	--	--	--	--	--	--	--	--	
04/06/95	330.45	5.62	0.00	324.83	0.02	--	--	--	--	--	--	--	--	
05/17/95	330.45	6.26	0.00	324.19	-0.64	130	--	0.75	ND	1.5	ND	--	--	
06/15/95	330.45	6.75	0.00	323.70	-0.49	--	--	--	--	--	--	--	--	
08/25/95	330.45	7.91	0.00	322.54	-1.16	490	--	9.1	ND	21	2	--	--	
11/28/95	330.45	9.03	0.00	321.42	-1.12	1400	--	18	3	98	3.6	--	--	
02/26/96	330.45	5.77	0.00	324.68	3.26	560	--	9.3	ND	22	ND	1300	--	
08/23/96	330.45	7.78	0.00	322.67	-2.01	ND	--	ND	ND	ND	ND	640	--	
02/17/97	330.23	5.73	0.00	324.50	1.83	120	--	1	0.95	ND	ND	280	--	
08/18/97	330.23	7.38	0.00	322.85	-1.65	ND	--	ND	ND	ND	ND	100	--	
02/02/98	330.23	5.10	0.00	325.13	2.28	ND	--	130	ND	ND	ND	32000	--	
08/24/98	330.23	6.73	0.00	323.50	-1.63	ND	--	ND	ND	ND	ND	26000	24000	
02/10/99	330.23	5.46	0.00	324.77	1.27	ND	--	ND	ND	ND	ND	84000	100000	
04/12/99	330.23	6.38	0.00	323.85	-0.92	ND	--	ND	ND	ND	ND	140000	120000	
05/21/99	330.21	5.95	0.00	324.26	0.41	--	--	--	--	--	--	--	--	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**March 1994 Through March 2007**  
**76 Station 6419**

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPH-G (8015M)	TPH-G (GC/MS)	Benzene	Toluene	Ethylbenzene	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>MW-1 continued</b>														
08/02/99	330.21	6.75	0.00	323.46	-0.80	ND	--	ND	ND	ND	ND	91000	140000	
02/11/00	330.21	6.44	0.00	323.77	0.31	ND	--	ND	ND	ND	ND	38000	39000	
07/26/00	330.18	7.08	0.00	323.10	-0.67	146	--	ND	ND	ND	ND	30900	42800	
02/02/01	330.18	6.99	0.00	323.19	0.09	ND	--	ND	ND	ND	ND	5380	6430	
05/16/01	--	--	--	--	--	--	--	--	--	--	--	--	--	
08/24/01	330.18	7.72	0.00	322.46	--	ND<50	--	8.3	ND<0.50	ND<0.50	ND<0.50	10000	6600	
10/11/01	330.17	7.72	0.00	322.45	-0.01	--	--	--	--	--	--	--	--	
02/06/02	330.17	6.43	0.00	323.74	1.29	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	450	420	
07/30/02	330.17	7.45	0.00	322.72	-1.02	--	ND<1000	ND<10	ND<10	ND<10	ND<20	--	2400	
02/17/03	330.17	6.18	0.00	323.99	1.27	--	ND<250	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	600	
08/18/03	330.17	6.25	0.00	323.92	-0.07	--	3900	ND<20	ND<20	ND<20	ND<40	--	2700	
02/24/04	330.17	5.59	0.00	324.58	0.66	--	ND<1000	ND<10	ND<10	ND<10	ND<20	--	1400	
09/17/04	330.17	7.08	0.00	323.09	-1.49	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	14	
03/22/05	330.17	5.29	0.00	324.88	1.79	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	100	
09/29/05	330.17	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
01/09/06	330.17	7.05	0.00	323.12	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.8	
09/27/06	330.17	8.05	0.00	322.12	-1.00	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	1.4	
03/29/07	330.17	8.38	0.00	321.79	-0.33	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
<b>MW-2 (Screen Interval in feet: 4.0-20.0)</b>														
03/14/94	330.40	7.23	0.00	323.17	--	ND	--	ND	2.8	1.1	8	--	--	
08/25/94	330.40	8.41	0.00	321.99	-1.18	ND	--	ND	ND	ND	ND	--	--	
09/30/94	330.40	8.73	0.00	321.67	-0.32	--	--	--	--	--	--	--	--	
10/20/94	330.40	8.92	0.00	321.48	-0.19	--	--	--	--	--	--	--	--	
11/18/94	330.40	7.67	0.00	322.73	1.25	ND	--	ND	ND	ND	ND	--	--	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**March 1994 Through March 2007**  
**76 Station 6419**

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>MW-2 continued</b>														
12/20/94	330.40	7.48	0.00	322.92	0.19	--	--	--	--	--	--	--	--	
01/17/95	330.40	6.00	0.00	324.40	1.48	--	--	--	--	--	--	--	--	
02/15/95	330.40	6.16	0.00	324.24	-0.16	ND	--	ND	ND	ND	ND	--	--	
03/13/95	330.40	5.59	0.00	324.81	0.57	--	--	--	--	--	--	--	--	
04/06/95	330.40	5.51	0.00	324.89	0.08	--	--	--	--	--	--	--	--	
05/17/95	330.40	6.15	0.00	324.25	-0.64	ND	--	ND	ND	ND	ND	--	--	
06/15/95	330.40	6.61	0.00	323.79	-0.46	--	--	--	--	--	--	--	--	
08/25/95	330.40	7.45	0.00	322.95	-0.84	ND	--	ND	ND	ND	ND	--	--	
11/28/95	330.40	8.85	0.00	321.55	-1.40	ND	--	ND	ND	ND	ND	--	--	
02/26/96	330.40	5.49	0.00	324.91	3.36	ND	--	ND	ND	ND	ND	--	--	
08/23/96	330.40	7.44	0.00	322.96	-1.95	--	--	--	--	--	--	--	--	SAMPLED ANNUALLY
02/17/97	330.27	5.64	0.00	324.63	1.67	ND	--	ND	ND	ND	ND	ND	--	
08/18/97	330.27	7.40	0.00	322.87	-1.76	--	--	--	--	--	--	--	--	
02/02/98	330.27	5.09	0.00	325.18	2.31	ND	--	ND	ND	ND	ND	62	--	
08/24/98	330.27	6.70	0.00	323.57	-1.61	--	--	--	--	--	--	--	--	
02/10/99	330.27	5.56	0.00	324.71	1.14	ND	--	ND	ND	ND	ND	130	--	
05/21/99	330.30	5.98	0.00	324.32	-0.39	--	--	--	--	--	--	--	--	
08/02/99	330.30	6.72	0.00	323.58	-0.74	ND	--	ND	ND	ND	ND	120	--	
02/11/00	330.30	6.43	0.00	323.87	0.29	ND	--	ND	ND	ND	ND	39	--	
07/26/00	330.24	7.03	0.00	323.21	-0.66	ND	--	ND	ND	ND	ND	89.9	--	
02/02/01	330.24	6.81	0.00	323.43	0.22	ND	--	ND	ND	ND	ND	20.1	--	
05/16/01	--	--	--	--	--	--	--	--	--	--	--	--	--	
08/24/01	330.24	7.57	0.00	322.67	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	36	--	
10/11/01	330.24	7.62	0.00	322.62	-0.05	--	--	--	--	--	--	--	--	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**March 1994 Through March 2007**  
**76 Station 6419**

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)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
<b>MW-2 continued</b>														
02/06/02	330.24	6.40	0.00	323.84	1.22	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	23	21	
07/30/02	330.24	7.12	0.00	323.12	-0.72	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	11	
02/17/03	330.24	6.17	0.00	324.07	0.95	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	25	
08/18/03	330.24	6.36	0.00	323.88	-0.19	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2	
02/24/04	330.24	5.87	0.00	324.37	0.49	--	ND<100	ND<1.0	ND<1.0	ND<1.0	ND<2.0	--	100	
09/17/04	330.24	7.22	0.00	323.02	-1.35	--	120	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	70	
03/22/05	330.24	5.55	0.00	324.69	1.67	--	110	ND<0.50	1.3	0.68	2.4	--	29	
09/29/05	330.24	8.26	0.00	321.98	-2.71	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	23	
01/09/06	330.24	7.41	0.00	322.83	0.85	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	25	
09/27/06	--	--	--	--	--	--	--	--	--	--	--	--	--	Destroyed on 1/12/06
<b>MW-3 (Screen Interval in feet: 4.0-20.0)</b>														
03/14/94	331.11	7.93	0.00	323.18	--	150	--	ND	ND	ND	ND	--	--	
08/25/94	331.11	9.20	0.00	321.91	-1.27	130	--	ND	ND	ND	ND	--	--	
09/30/94	331.11	9.43	0.00	321.68	-0.23	--	--	--	--	--	--	--	--	
10/20/94	331.11	9.64	0.00	321.47	-0.21	--	--	--	--	--	--	--	--	
11/18/94	331.11	8.39	0.00	322.72	1.25	130	--	ND	ND	ND	ND	--	--	
12/20/94	331.11	8.20	0.00	322.91	0.19	--	--	--	--	--	--	--	--	
01/17/95	331.11	6.72	0.00	324.39	1.48	--	--	--	--	--	--	--	--	
02/15/95	331.11	6.93	0.00	324.18	-0.21	130	--	ND	ND	ND	ND	--	--	
03/13/95	331.11	6.30	0.00	324.81	0.63	--	--	--	--	--	--	--	--	
04/06/95	331.11	8.20	0.00	322.91	-1.90	--	--	--	--	--	--	--	--	
05/17/95	331.11	6.88	0.00	324.23	1.32	99	--	ND	ND	ND	ND	--	--	
06/15/95	331.11	7.35	0.00	323.76	-0.47	--	--	--	--	--	--	--	--	
08/25/95	331.11	8.20	0.00	322.91	-0.85	ND	--	ND	ND	ND	ND	--	--	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**March 1994 Through March 2007**  
**76 Station 6419**

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>MW-3 continued</b>														
11/28/95	331.11	9.52	0.00	321.59	-1.32	ND	--	ND	ND	ND	ND	--	--	
02/26/96	331.11	6.25	0.00	324.86	3.27	ND	--	ND	ND	ND	ND	--	--	
08/23/96	331.11	7.98	0.00	323.13	-1.73	--	--	--	--	--	--	--	--	SAMPLED ANNUALLY
02/17/97	330.68	6.07	0.00	324.61	1.48	ND	--	ND	ND	ND	ND	68	--	
08/18/97	330.68	7.82	0.00	322.86	-1.75	--	--	--	--	--	--	--	--	
02/02/98	330.68	5.50	0.00	325.18	2.32	ND	--	ND	ND	ND	ND	100	--	
08/24/98	330.68	7.12	0.00	323.56	-1.62	--	--	--	--	--	--	--	--	
02/10/99	330.68	5.80	0.00	324.88	1.32	ND	--	ND	ND	ND	ND	92	--	
05/21/99	330.49	6.16	0.00	324.33	-0.55	--	--	--	--	--	--	--	--	
08/02/99	330.49	6.95	0.00	323.54	-0.79	ND	--	ND	ND	ND	ND	140	--	
02/11/00	330.49	6.71	0.00	323.78	0.24	ND	--	ND	ND	ND	ND	46	--	
07/26/00	330.60	7.35	0.00	323.25	-0.53	ND	--	ND	ND	ND	ND	927	--	
02/02/01	330.60	7.17	0.00	323.43	0.18	ND	--	ND	ND	ND	ND	2240	--	
05/16/01	--	--	--	--	--	--	--	--	--	--	--	--	--	
08/24/01	330.60	7.88	0.00	322.72	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2500	--	
10/11/01	330.59	7.83	0.00	322.76	0.04	--	--	--	--	--	--	--	--	
02/06/02	330.59	6.73	0.00	323.86	1.10	ND<1000	--	ND<10	ND<10	ND<10	ND<10	4300	3300	
07/30/02	330.59	7.38	0.00	323.21	-0.65	--	ND<2500	ND<25	ND<25	ND<25	ND<50	--	4900	
02/17/03	330.59	6.49	0.00	324.10	0.89	--	ND<2500	ND<25	ND<25	ND<25	ND<50	--	4400	
08/18/03	330.59	6.70	0.00	323.89	-0.21	--	4400	ND<20	ND<20	ND<20	ND<40	--	3300	
02/24/04	330.59	6.11	0.00	324.48	0.59	--	ND<2500	ND<25	ND<25	ND<25	ND<50	--	3000	
09/17/04	330.59	7.61	0.00	322.98	-1.50	--	ND<1300	ND<13	ND<13	ND<13	ND<25	--	2300	
03/22/05	330.59	5.79	0.00	324.80	1.82	--	ND<1300	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1600	
09/29/05	330.59	9.24	0.00	321.35	-3.45	--	680	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1600	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**March 1994 Through March 2007**  
**76 Station 6419**

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>MW-3 continued</b>														
01/09/06	330.59	7.74	0.00	322.85	1.50	--	410	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1200	
09/27/06	330.59	8.54	0.00	322.05	-0.80	--	780	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	1500	
03/29/07	330.59	8.82	0.00	321.77	-0.28	--	230	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	230	
<b>MW-4 (Screen Interval in feet: 4.0-19.0)</b>														
05/21/99	330.36	6.43	0.00	323.93	--	ND	--	ND	ND	ND	ND	960	910	
08/02/99	330.36	7.34	0.00	323.02	-0.91	ND	--	10	ND	13	11	ND	--	
02/11/00	330.36	6.92	0.00	323.44	0.42	ND	--	ND	ND	ND	ND	2700	--	
07/26/00	330.35	7.68	0.00	322.67	-0.77	ND	--	ND	ND	ND	ND	3710	--	
02/02/01	330.35	7.40	0.00	322.95	0.28	ND	--	ND	ND	ND	ND	5340	--	
08/24/01	330.35	8.14	0.00	322.21	-0.74	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	7800	--	
10/11/01	330.35	8.29	0.00	322.06	-0.15	--	--	--	--	--	--	--	--	
02/06/02	330.35	7.28	0.00	323.07	1.01	ND<100	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	2300	3100	
07/30/02	330.35	7.76	0.00	322.59	-0.48	--	ND<500	ND<5.0	ND<5.0	5.8	ND<10	--	1600	
02/17/03	330.35	6.85	0.00	323.50	0.91	--	ND<1000	ND<10	ND<10	ND<10	ND<20	--	2200	
08/18/03	330.35	7.30	0.00	323.05	-0.45	--	2000	ND<10	ND<10	ND<10	ND<20	--	1400	
02/24/04	330.35	6.55	0.00	323.80	0.75	--	ND<2000	ND<20	ND<20	ND<20	ND<40	--	2000	
09/17/04	330.35	8.00	0.00	322.35	-1.45	--	340	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	610	
03/22/05	330.35	6.37	0.00	323.98	1.63	--	ND<200	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	290	
09/29/05	330.35	9.43	0.00	320.92	-3.06	--	84	ND<0.50	ND<0.50	0.53	ND<1.0	--	57	
01/09/06	330.35	7.97	0.00	322.38	1.46	--	100	ND<0.50	ND<0.50	1.5	ND<1.0	--	150	
09/27/06	--	--	--	--	--	--	--	--	--	--	--	--	--	Destroyed on 1/12/06
<b>MW-5 (Screen Interval in feet: 4.0-19.0)</b>														
05/21/99	330.20	5.99	0.00	324.21	--	ND	--	ND	ND	ND	ND	32	33	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**March 1994 Through March 2007**  
**76 Station 6419**

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>MW-5 continued</b>														
08/02/99	330.20	6.83	0.00	323.37	-0.84	ND	--	ND	ND	ND	ND	230	--	
02/11/00	330.20	6.34	0.00	323.86	0.49	ND	--	ND	ND	ND	ND	98	--	
07/26/00	330.20	7.06	0.00	323.14	-0.72	ND	--	ND	ND	ND	ND	25.9	--	
02/02/01	330.20	6.81	0.00	323.39	0.25	ND	--	ND	ND	ND	ND	18	--	
08/24/01	330.20	7.60	0.00	322.60	-0.79	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	18	--	
10/11/01	330.18	7.34	0.00	322.84	0.24	--	--	--	--	--	--	--	--	
02/06/02	330.18	6.55	0.00	323.63	0.79	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	7.7	7.9	
07/30/02	330.18	7.15	0.00	323.03	-0.60	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	4.6	
02/17/03	330.18	6.27	0.00	323.91	0.88	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.8	
08/18/03	330.18	6.57	0.00	323.61	-0.30	--	75	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3.8	
02/24/04	330.18	5.88	0.00	324.30	0.69	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3.3	
09/17/04	330.18	7.41	0.00	322.77	-1.53	--	ND<50	ND<0.50	ND<0.50	ND<0.50	1.4	--	6.0	
03/22/05	330.18	5.58	0.00	324.60	1.83	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5.8	
09/29/05	330.18	9.42	0.00	320.76	-3.84	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	7.8	
01/09/06	330.18	7.93	0.00	322.25	1.49	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	14	
09/27/06	330.18	8.60	0.00	321.58	-0.67	--	300	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	860	
03/29/07	330.18	8.82	0.00	321.36	-0.22	--	520	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	690	
<b>MW-6 (Screen Interval in feet: 4.0-19.0)</b>														
05/21/99	330.49	6.24	0.00	324.25	--	ND	--	ND	ND	ND	ND	2200	2300	
08/02/99	330.49	7.10	0.00	323.39	-0.86	ND	--	ND	ND	ND	ND	ND	--	
02/11/00	330.49	6.60	0.00	323.89	0.50	ND	--	ND	ND	ND	ND	2500	--	
07/26/00	330.49	7.31	0.00	323.18	-0.71	ND	--	ND	ND	ND	ND	4280	--	
02/02/01	330.49	7.02	0.00	323.47	0.29	ND	--	ND	ND	ND	ND	1990	--	
08/24/01	330.49	7.84	0.00	322.65	-0.82	ND<200	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	1100	--	



**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**March 1994 Through March 2007**  
**76 Station 6419**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>MW-6 continued</b>														
10/11/01	330.47	8.03	0.00	322.44	-0.21	--	--	--	--	--	--	--	--	
02/06/02	330.47	6.78	0.00	323.69	1.25	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	610	680	
07/30/02	330.47	7.40	0.00	323.07	-0.62	--	180	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	160	
02/17/03	330.47	6.49	0.00	323.98	0.91	--	ND<250	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	400	
08/18/03	330.47	6.81	0.00	323.66	-0.32	--	320	ND<1.0	ND<1.0	ND<1.0	ND<2.0	--	280	
02/24/04	330.47	6.11	0.00	324.36	0.70	--	130	ND<1.0	ND<1.0	ND<1.0	ND<2.0	--	200	
09/17/04	330.47	7.64	0.00	322.83	-1.53	--	110	ND<1.0	ND<1.0	ND<1.0	ND<2.0	--	200	
03/22/05	330.47	5.81	0.00	324.66	1.83	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	83	
09/29/05	330.47	9.19	0.00	321.28	-3.38	--	110	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	140	
01/09/06	330.47	7.65	0.00	322.82	1.54	--	100	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	160	
09/27/06	--	--	--	--	--	--	--	--	--	--	--	--	--	Destroyed on 1/12/06
<b>MW-7 (Screen Interval in feet: 4.0-19.0)</b>														
05/21/99	330.43	6.13	0.00	324.30	--	ND	--	ND	ND	ND	ND	22	22	
08/02/99	330.43	6.92	0.00	323.51	-0.79	ND	--	ND	ND	ND	ND	31	--	
02/11/00	330.43	6.50	0.00	323.93	0.42	ND	--	ND	ND	ND	ND	20	--	
07/26/00	330.43	7.18	0.00	323.25	-0.68	ND	--	ND	ND	ND	ND	17.9	--	
02/02/01	330.43	6.95	0.00	323.48	0.23	ND	--	ND	ND	ND	ND	ND	--	
08/24/01	330.43	7.72	0.00	322.71	-0.77	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.4	--	
10/11/01	330.41	7.87	0.00	322.54	-0.17	--	--	--	--	--	--	--	--	
02/06/02	330.41	6.62	0.00	323.79	1.25	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.9	3.2	
07/30/02	330.41	--	0.00	--	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	4.3	
02/17/03	330.41	--	0.00	--	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	4.7	
08/18/03	330.41	6.64	0.00	323.77	--	--	76	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	6.3	
02/24/04	330.41	6.01	0.00	324.40	0.63	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	6.2	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**March 1994 Through March 2007**  
**76 Station 6419**

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>MW-7 continued</b>														
09/17/04	330.41	7.45	0.00	322.96	-1.44	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	8.7	
03/22/05	330.41	5.73	0.00	324.68	1.72	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	9.4	
09/29/05	330.41	8.94	0.00	321.47	-3.21	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	11	
01/09/06	330.41	7.43	0.00	322.98	1.51	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	7.6	
09/27/06	--	--	--	--	--	--	--	--	--	--	--	--	--	Destroyed on 1/12/06
<b>MW-8 (Screen Interval in feet: DNA)</b>														
10/11/01	329.97	7.57	0.00	322.40	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	ND<2.0	
02/06/02	329.97	6.35	0.00	323.62	1.22	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	ND<1.0	
07/30/02	329.97	6.95	0.00	323.02	-0.60	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
02/17/03	329.97	6.11	0.00	323.86	0.84	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
08/18/03	329.97	6.33	0.00	323.64	-0.22	--	53	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2	
02/24/04	329.97	13.37	0.00	316.60	-7.04	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
09/17/04	329.97	7.23	0.00	322.74	6.14	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	4.0	
03/22/05	329.97	--	--	--	--	--	--	--	--	--	--	--	--	Abandoned
<b>MW-9 (Screen Interval in feet: DNA)</b>														
10/11/01	329.51	7.12	0.00	322.39	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	22	15	
02/06/02	329.51	5.94	0.00	323.57	1.18	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	19	14	
07/30/02	329.51	6.53	0.00	322.98	-0.59	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	9	
02/17/03	329.51	5.63	0.00	323.88	0.90	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	4.9	
08/18/03	329.51	5.99	0.00	323.52	-0.36	--	57	ND<0.50	ND<0.50	ND<0.50	ND<1	--	6.2	
02/24/04	329.51	5.27	0.00	324.24	0.72	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5.6	
09/17/04	329.51	6.80	0.00	322.71	-1.53	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	4.8	
03/22/05	329.51	--	--	--	--	--	--	--	--	--	--	--	--	Abandoned

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 6419**

Date Sampled	TPH-D (µg/l)	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)	Cadmium (dissolved) (mg/l)	Chromium (total) (mg/l)	Lead (total) (mg/l)	Nickel (mg/l)	Zinc (total) (mg/l)	Post-purge Dissolved Oxygen (mg/l)	Pre-purge Dissolved Oxygen (mg/l)
<b>MW-1</b>															
03/14/94	810	--	--	--	--	--	--	--	ND	0.000012	ND	0.00003	0.039	--	--
08/25/94	910	--	--	--	--	--	--	--	ND	ND	0.024	ND	--	--	--
11/18/94	910	--	--	--	--	--	--	--	ND	0.067	ND	0.067	--	--	--
02/15/95	660	--	--	--	--	--	--	--	ND	ND	ND	ND	--	4.3	--
05/17/95	200	--	--	--	--	--	--	--	ND	ND	ND	0.021	--	1.2	--
08/25/95	--	--	--	--	--	--	--	--	--	--	--	--	--	2.71	--
11/28/95	--	--	--	--	--	--	--	--	--	--	--	--	--	3.25	--
02/26/96	--	--	--	--	--	--	--	--	--	--	--	--	--	1.41	5.23
08/23/96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.83
02/17/97	--	--	--	--	--	--	--	--	--	--	--	--	--	0.78	0.82
08/18/97	--	--	--	--	--	--	--	--	--	--	--	--	--	2.35	1.28
07/26/00	--	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--	--	--
05/16/01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.54
08/24/01	--	ND<1000	ND<25000	ND<100	ND<100	ND<100	ND<100	ND<100	--	--	--	--	--	3.1	--
02/06/02	--	ND<100	ND<2500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	--	--	--	--	--	--
07/30/02	--	ND<2000	ND<10000	ND<40	ND<40	ND<40	ND<40	ND<40	--	--	--	--	--	--	--
02/17/03	--	ND<500	ND<2500	ND<10	ND<10	ND<10	ND<10	ND<10	--	--	--	--	--	--	--
08/18/03	--	ND<4000	ND<20000	ND<80	ND<80	ND<80	ND<80	ND<80	--	--	--	--	--	--	--
02/24/04	--	ND<2000	ND<10000	ND<40	ND<40	ND<40	ND<40	ND<40	--	--	--	--	--	--	--
09/17/04	--	470	ND<50	ND<0.5	ND<0.5	ND<1.0	ND<0.5	ND<0.5	--	--	--	--	--	--	--
03/22/05	--	ND<5.0	ND<50	ND<0.50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--	--	--
01/09/06	--	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--	--	--
09/27/06	--	--	ND<250	--	--	--	--	--	--	--	--	--	--	--	--
03/29/07	--	--	ND<250	--	--	--	--	--	--	--	--	--	--	--	--
<b>MW-2</b>															
02/15/95	--	--	--	--	--	--	--	--	--	--	--	--	--	1.9	--

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 6419**

Date Sampled	TPH-D (µg/l)	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)	Cadmium (dissolved) (mg/l)	Chromium (total) (mg/l)	Lead (total) (mg/l)	Nickel (mg/l)	Zinc (total) (mg/l)	Post-purge Dissolved Oxygen (mg/l)	Pre-purge Dissolved Oxygen (mg/l)
<b>MW-2 continued</b>															
02/26/96	--	--	--	--	--	--	--	--	--	--	--	--	--	0.43	0.62
08/23/96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.04
02/17/97	--	--	--	--	--	--	--	--	--	--	--	--	--	0.82	0.9
08/18/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.16
05/16/01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.47
08/24/01	--	--	--	--	--	--	--	--	--	--	--	--	--	2.6	--
02/06/02	--	ND<20	ND<500	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	--	--	--	--
08/18/03	--	--	ND<500	--	--	--	--	--	--	--	--	--	--	--	--
02/24/04	--	--	ND<1000	--	--	--	--	--	--	--	--	--	--	--	--
09/17/04	--	--	ND<50	--	--	--	--	--	--	--	--	--	--	--	--
03/22/05	--	--	ND<50	--	--	--	--	--	--	--	--	--	--	--	--
09/29/05	--	--	ND<250	--	--	--	--	--	--	--	--	--	--	--	--
01/09/06	--	--	ND<250	--	--	--	--	--	--	--	--	--	--	--	--
<b>MW-3</b>															
02/15/95	--	--	--	--	--	--	--	--	--	--	--	--	--	2.6	--
03/13/95	--	--	--	--	--	--	--	--	--	--	--	--	--	1.13	--
08/25/95	--	--	--	--	--	--	--	--	--	--	--	--	--	1.86	--
11/28/95	--	--	--	--	--	--	--	--	--	--	--	--	--	6.81	--
02/26/96	--	--	--	--	--	--	--	--	--	--	--	--	--	1.11	16.83
08/23/96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.29
02/17/97	--	--	--	--	--	--	--	--	--	--	--	--	--	0.8	0.8
08/18/97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.43
05/16/01	--	--	--	--	--	--	--	--	--	--	--	--	--	2.6	1.65
08/24/01	--	--	--	--	--	--	--	--	--	--	--	--	--	2.60	--
02/06/02	--	ND<670	ND<17000	ND<33	ND<33	ND<33	ND<33	ND<33	--	--	--	--	--	--	--
08/18/03	--	--	ND<20000	--	--	--	--	--	--	--	--	--	--	--	--

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 6419**

Date Sampled	TPH-D (µg/l)	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)	Cadmium (dissolved) (mg/l)	Chromium (total) (mg/l)	Lead (total) (mg/l)	Nickel (mg/l)	Zinc (total) (mg/l)	Post-purge Dissolved Oxygen (mg/l)	Pre-purge Dissolved Oxygen (mg/l)
<b>MW-3 continued</b>															
02/24/04	--	--	ND<25000	--	--	--	--	--	--	--	--	--	--	--	--
09/17/04	--	--	ND<1300	--	--	--	--	--	--	--	--	--	--	--	--
03/22/05	--	--	ND<1300	--	--	--	--	--	--	--	--	--	--	--	--
09/29/05	--	--	ND<250	--	--	--	--	--	--	--	--	--	--	--	--
01/09/06	--	--	ND<250	--	--	--	--	--	--	--	--	--	--	--	--
09/27/06	--	--	ND<2500	--	--	--	--	--	--	--	--	--	--	--	--
03/29/07	--	--	ND<250	--	--	--	--	--	--	--	--	--	--	--	--
<b>MW-4</b>															
08/24/01	--	--	--	--	--	--	--	--	--	--	--	--	--	2.3	--
02/06/02	--	ND<500	ND<12000	ND<25	ND<25	ND<25	ND<25	ND<25	--	--	--	--	--	--	--
08/18/03	--	--	ND<10000	--	--	--	--	--	--	--	--	--	--	--	--
02/24/04	--	--	ND<20000	--	--	--	--	--	--	--	--	--	--	--	--
09/17/04	--	--	ND<250	--	--	--	--	--	--	--	--	--	--	--	--
03/22/05	--	--	ND<200	--	--	--	--	--	--	--	--	--	--	--	--
09/29/05	--	--	ND<250	--	--	--	--	--	--	--	--	--	--	--	--
01/09/06	--	--	ND<250	--	--	--	--	--	--	--	--	--	--	--	--
<b>MW-5</b>															
08/24/01	--	--	--	--	--	--	--	--	--	--	--	--	--	2.1	--
02/06/02	--	ND<20	ND<500	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	--	--	--	--
08/18/03	--	--	ND<500	--	--	--	--	--	--	--	--	--	--	--	--
02/24/04	--	--	ND<500	--	--	--	--	--	--	--	--	--	--	--	--
09/17/04	--	--	ND<50	--	--	--	--	--	--	--	--	--	--	--	--
03/22/05	--	--	ND<50	--	--	--	--	--	--	--	--	--	--	--	--
09/29/05	--	--	ND<250	--	--	--	--	--	--	--	--	--	--	--	--
01/09/06	--	--	ND<250	--	--	--	--	--	--	--	--	--	--	--	--
09/27/06	--	--	ND<250	--	--	--	--	--	--	--	--	--	--	--	--

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 6419**

Date Sampled	TPH-D (µg/l)	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)	Cadmium (dissolved) (mg/l)	Chromium (total) (mg/l)	Lead (total) (mg/l)	Nickel (mg/l)	Zinc (total) (mg/l)	Post-purge Dissolved Oxygen (mg/l)	Pre-purge Dissolved Oxygen (mg/l)
<b>MW-5 continued</b>															
03/29/07	--	--	ND<250	--	--	--	--	--	--	--	--	--	--	--	--
<b>MW-6</b>															
05/21/99	--	ND<170	--	--	--	ND<8.3	ND<8.3	ND<8.3	--	--	--	--	--	--	--
08/24/01	--	--	--	--	--	--	--	--	--	--	--	--	--	2.7	--
02/06/02	--	ND<170	ND<4200	ND<8.3	ND<8.3	ND<8.3	ND<8.3	ND<8.3	--	--	--	--	--	--	--
08/18/03	--	--	ND<1000	--	--	--	--	--	--	--	--	--	--	--	--
02/24/04	--	--	ND<1000	--	--	--	--	--	--	--	--	--	--	--	--
09/17/04	--	--	ND<100	--	--	--	--	--	--	--	--	--	--	--	--
03/22/05	--	--	ND<50	--	--	--	--	--	--	--	--	--	--	--	--
09/29/05	--	--	ND<250	--	--	--	--	--	--	--	--	--	--	--	--
01/09/06	--	--	ND<250	--	--	--	--	--	--	--	--	--	--	--	--
<b>MW-7</b>															
08/24/01	--	--	--	--	--	--	--	--	--	--	--	--	--	2.7	--
02/06/02	--	ND<20	ND<500	ND<1.0	ND<1.0	1.4	ND<1.0	ND<1.0	--	--	--	--	--	--	--
08/18/03	--	--	ND<500	--	--	--	--	--	--	--	--	--	--	--	--
02/24/04	--	--	ND<500	--	--	--	--	--	--	--	--	--	--	--	--
09/17/04	--	--	ND<50	--	--	--	--	--	--	--	--	--	--	--	--
03/22/05	--	--	ND<50	--	--	--	--	--	--	--	--	--	--	--	--
09/29/05	--	--	ND<250	--	--	--	--	--	--	--	--	--	--	--	--
01/09/06	--	--	ND<250	--	--	--	--	--	--	--	--	--	--	--	--
<b>MW-8</b>															
10/11/01	--	ND<20	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	--	--	--
02/06/02	--	ND<20	ND<500	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	--	--	--	--
08/18/03	--	--	ND<500	--	--	--	--	--	--	--	--	--	--	--	--
02/24/04	--	--	ND<500	--	--	--	--	--	--	--	--	--	--	--	--

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 6419**

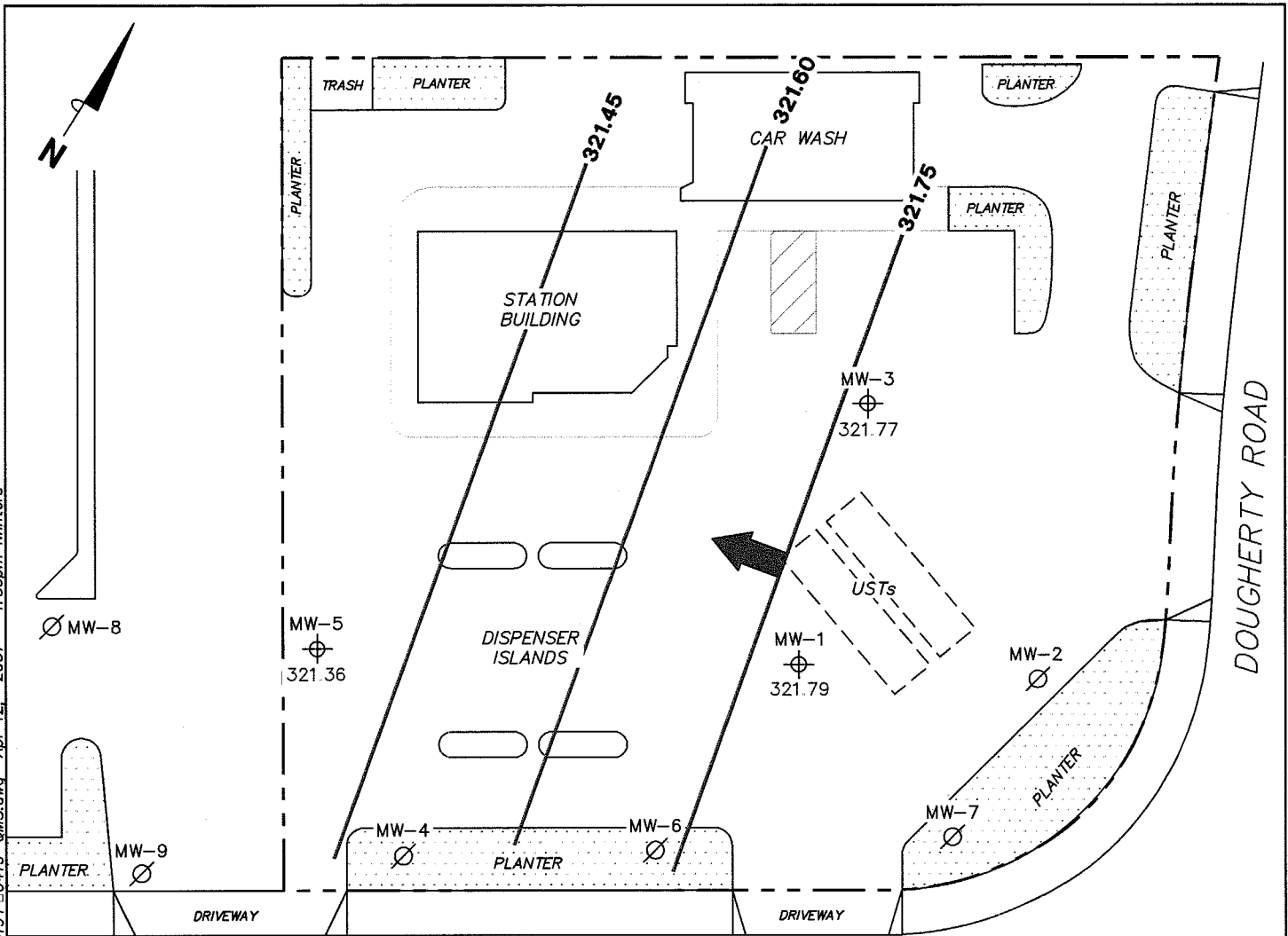
Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Cadmium (dissolved) (mg/l)	Chromium (total) (mg/l)	Lead (total) (mg/l)	Nickel (mg/l)	Zinc (total) (mg/l)	Post-purge Dissolved Oxygen (mg/l)	Pre-purge Dissolved Oxygen (mg/l)
<b>MW-8 continued</b>															
09/17/04	--	--	ND<50	--	--	--	--	--	--	--	--	--	--	--	--
<b>MW-9</b>															
10/11/01	--	ND<20	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	--	--	--
02/06/02	--	ND<20	ND<500	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	--	--	--	--
08/18/03	--	--	ND<500	--	--	--	--	--	--	--	--	--	--	--	--
02/24/04	--	--	ND<500	--	--	--	--	--	--	--	--	--	--	--	--
09/17/04	--	--	ND<50	--	--	--	--	--	--	--	--	--	--	--	--

# FIGURES





P:\S\1:1 6419-003 L:\Graphics\Projects\Number\20-xxxx\20-0400(Unocal\MS)\x-6000\6419+6419-QMS.dwg Apr. 12, 2007 - 1:59pm lwinters



DUBLIN BOULEVARD

**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.

**LEGEND**

MW-5 Monitoring Well with Groundwater Elevation (feet)

MW-9 Abandoned Monitoring Well

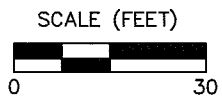
**321.75** — Groundwater Elevation Contour

General Direction of Groundwater Flow

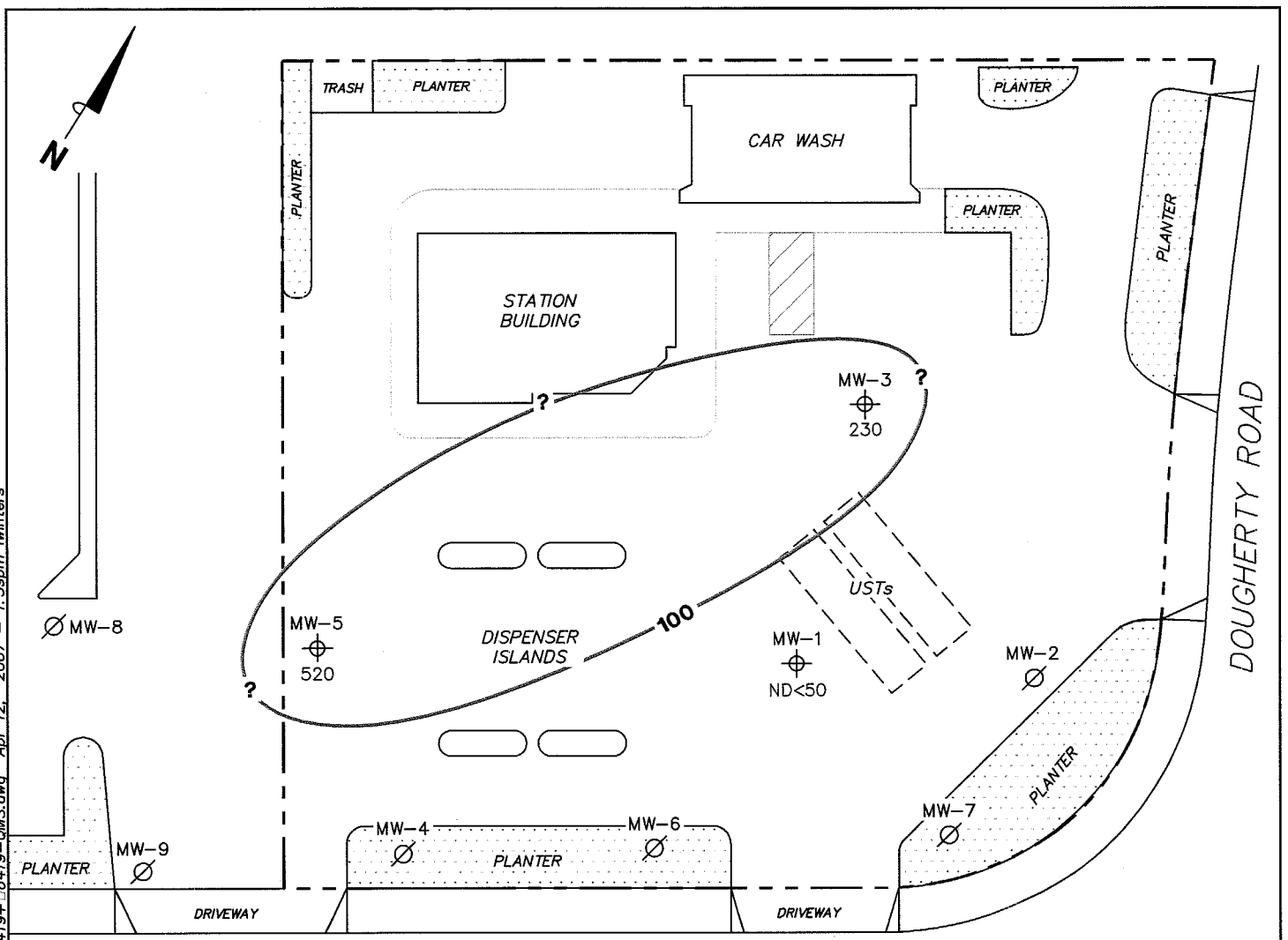
**GROUNDWATER ELEVATION  
CONTOUR MAP  
March 29, 2007**

76 Station 6419  
6401 Dublin Boulevard  
Dublin, California

**FIGURE 2**



P:\1:1 6419-003 L:\Graphics\Projects\Number\20-xxxx\20-0400(Unocal\QMS)\EX-6000\6419+06419-QMS.dwg Apr 12, 2007 - 1:59pm lwinters



DUBLIN BOULEVARD

**NOTES:**

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

**LEGEND**

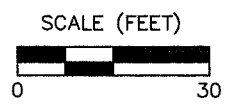
MW-7 Monitoring Well with Dissolved-Phase TPH-G (GC/MS) Concentration (µg/l)

MW-9 Abandoned Monitoring Well

-100- Dissolved-Phase TPH-G (GC/MS) Contour (µg/l)

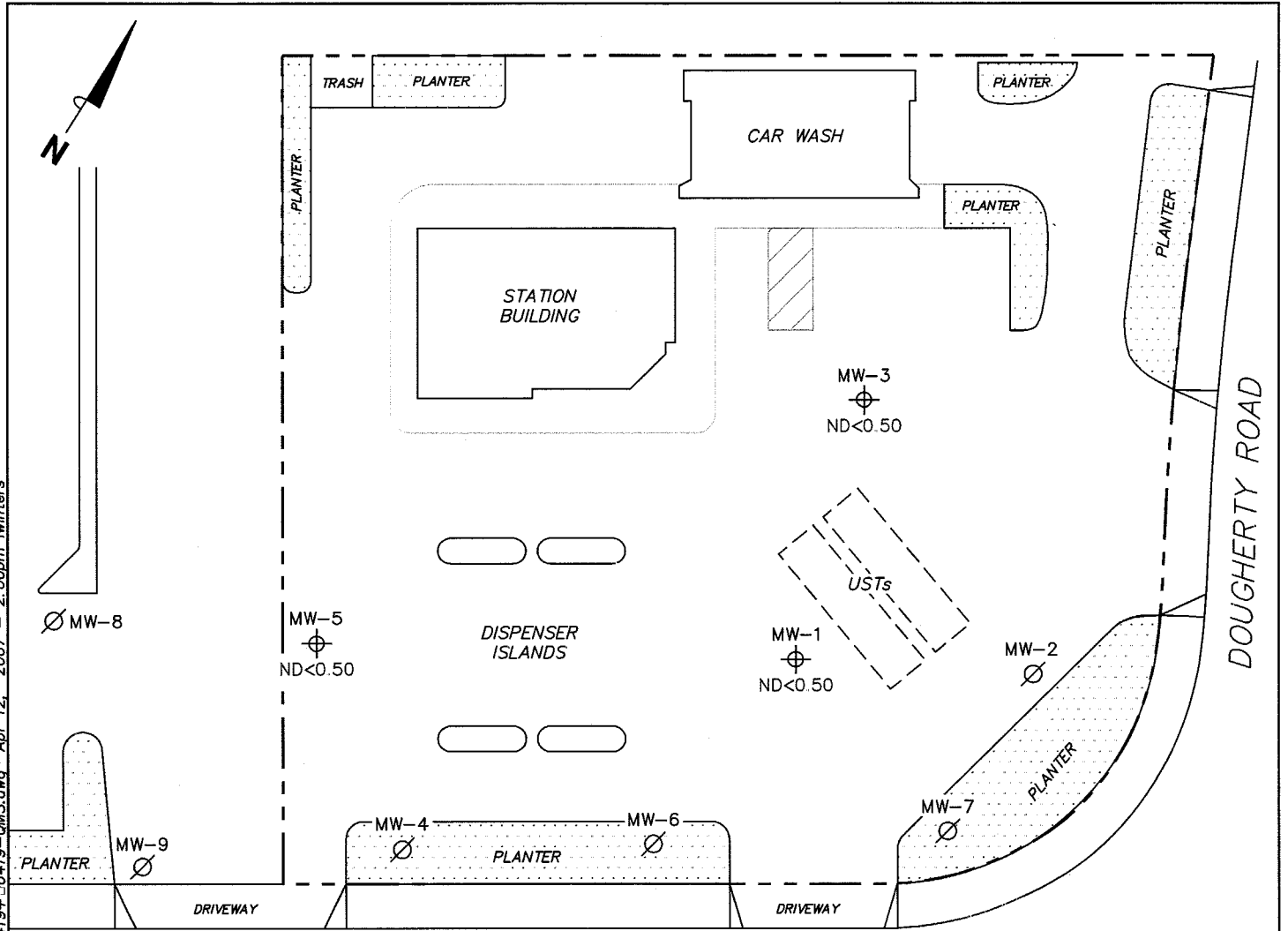
**DISSOLVED-PHASE  
 TPH-G (GC/MS)  
 CONCENTRATION MAP  
 March 29, 2007**

76 Station 6419  
 6401 Dublin Boulevard  
 Dublin, California



**FIGURE 3**

6419-003 L: Graphics\Projects\Number\20-xxxx\20-0400(UnocalQMS)\x-6000\6419+6419-QMS.dwg Apr 12, 2007 - 2:00pm Winters



DUBLIN BOULEVARD

DOUGHERTY ROAD

**NOTES:**

µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report.  
UST = underground storage tank.

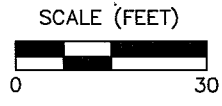
**LEGEND**

MW-7 ⊕ Monitoring Well with Dissolved-Phase Benzene Concentration (µg/l)

MW-9 ∅ Abandoned Monitoring Well

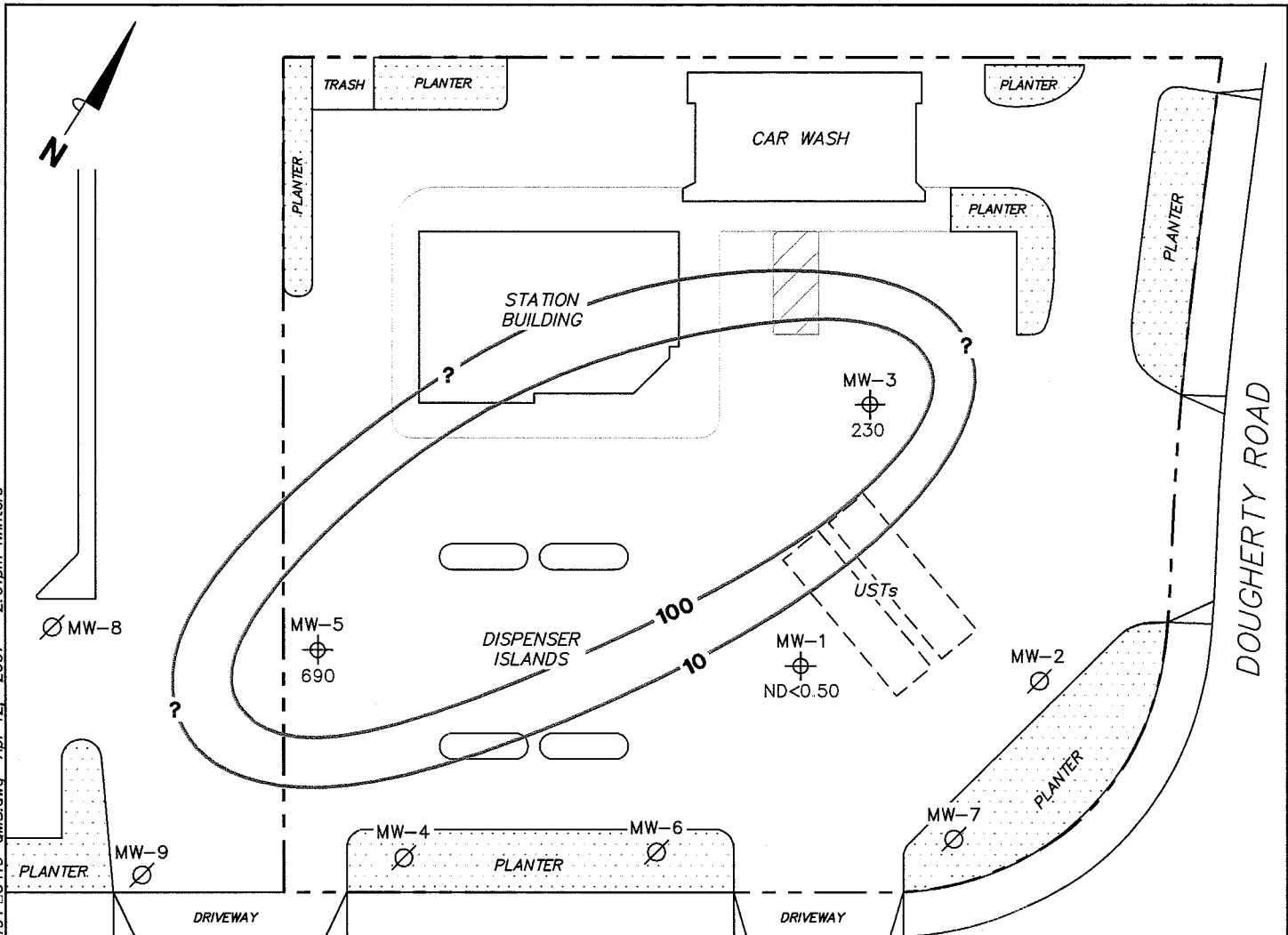
**DISSOLVED-PHASE BENZENE CONCENTRATION MAP**  
**March 29, 2007**

76 Station 6419  
6401 Dublin Boulevard  
Dublin, California



**FIGURE 4**

P:\S=1:1\_6419-003 L:\Graphics\Projects\Number\20-xxxx\20-0400(Unocal\MS)\x-6000\6419+6419-QMS.dwg Apr 12, 2007 - 2:01pm lwinters



DUBLIN BOULEVARD

**NOTES:**

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. MTBE = methyl tertiary butyl ether. µg/l = micrograms per liter. UST = underground storage tank. Results obtained using EPA Method 8260B.

LEGEND

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

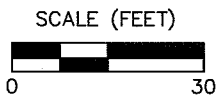
MW-9 ∅ Abandoned Monitoring Well

—100— Dissolved-Phase MTBE Contour (µg/l)

**DISSOLVED-PHASE MTBE  
CONCENTRATION MAP  
March 29, 2007**

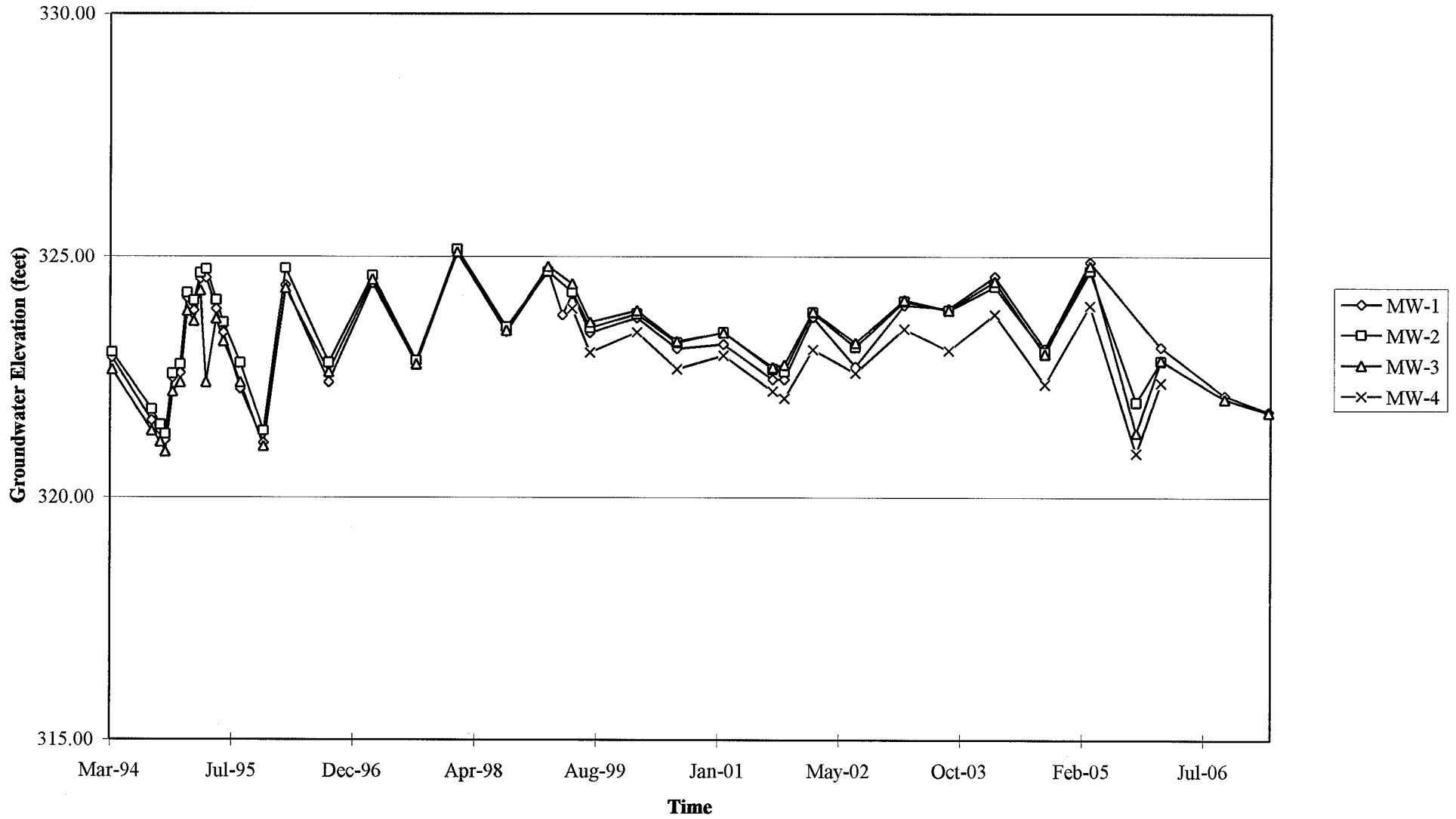
76 Station 6419  
6401 Dublin Boulevard  
Dublin, California

**FIGURE 5**



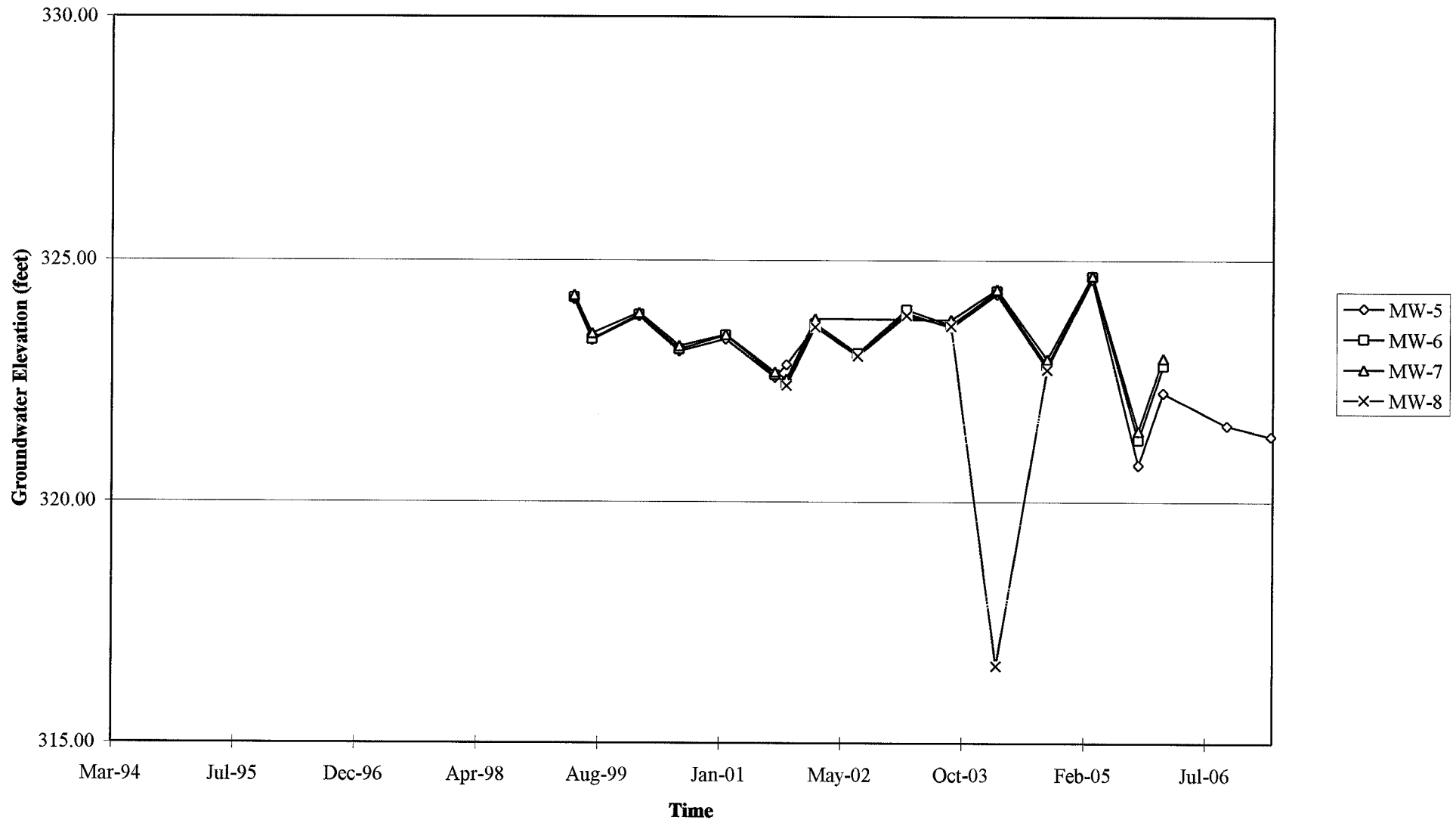
# GRAPHS

Groundwater Elevations vs. Time  
76 Station 6419



Elevations may have been corrected for apparent changes due to resurvey

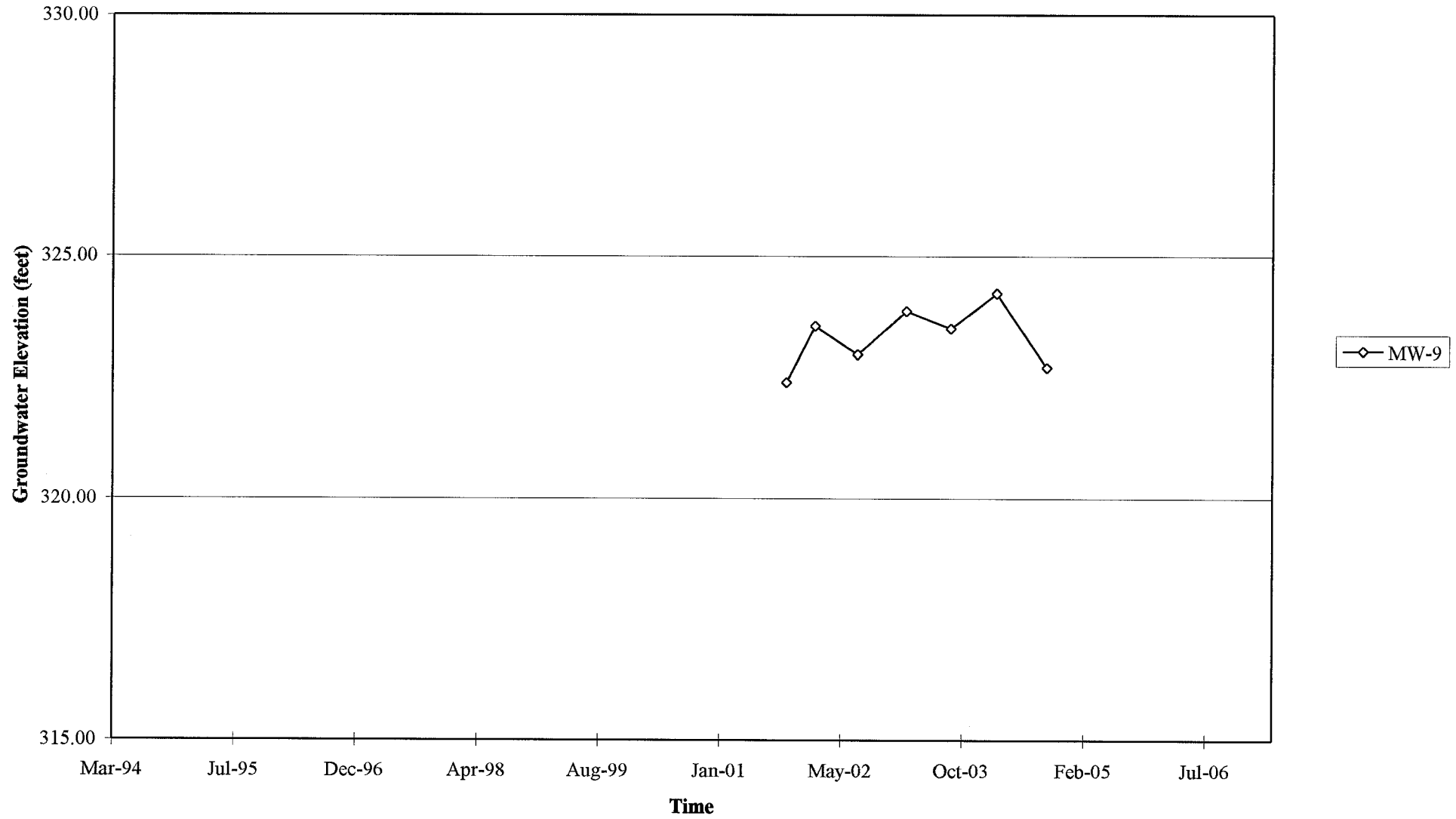
Groundwater Elevations vs. Time  
76 Station 6419



Elevations may have been corrected for apparent changes due to resurvey



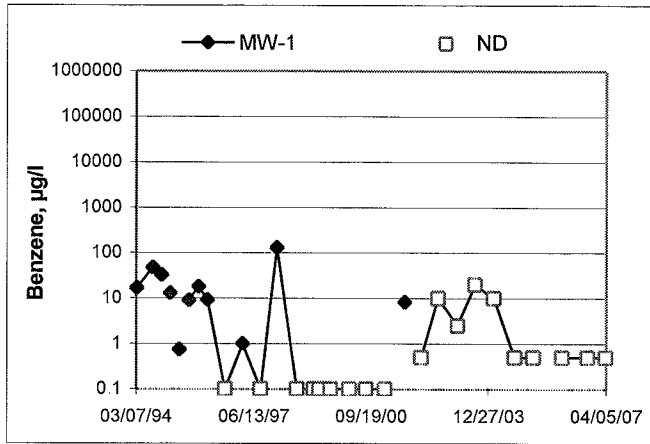
Groundwater Elevations vs. Time  
76 Station 6419



Elevations may have been corrected for apparent changes due to resurvey

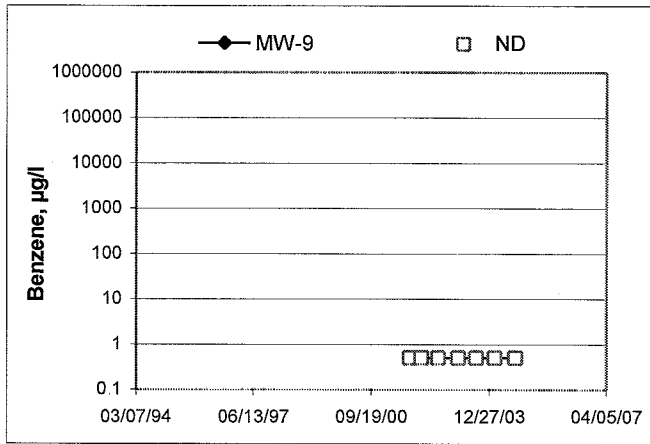
# Benzene Concentrations vs Time

76 Station 6419



# Benzene Concentrations vs Time

76 Station 6419



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

## **Decontamination**

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

## **Exceptions**

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



# GROUNDWATER SAMPLING FIELD NOTES

Technician: JOE

Site: 6419

Project No.: 41060001

Date: 03-29-07

Well No. MW-1

Purge Method: JL DIA HB

Depth to Water (feet): 8.38

Depth to Product (feet):           

Total Depth (feet) 9.25

LPH & Water Recovered (gallons):           

Water Column (feet): .87

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 8.55

1 Well Volume (gallons): .1

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F. C)	pH	D.O.	ORP	Turbidity
0624			.1	677.2	15.0	7.73			
			.2	657.3	15.2	7.47			
	0629		.3	654.8	15.1	7.34			
Static at Time Sampled			Total Gallons Purged			Sample Time			
8.45			.3			0634			
Comments:									

Well No. MW-5

Purge Method: JL DIA HB

Depth to Water (feet): 8.82

Depth to Product (feet):           

Total Depth (feet) 19.20

LPH & Water Recovered (gallons):           

Water Column (feet): 10.38

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 10.89

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
0707			2	1628	16.5	7.60			
			4	2458	17.4	7.18			
	0716		6	2389	17.7	7.20			
Static at Time Sampled			Total Gallons Purged			Sample Time			
10.13			6			0720			
Comments:									

# GROUNDWATER SAMPLING FIELD NOTES

Technician: JOE

Site: 6419 MW 3 JL

Project No.: 41060001

Date: 03-29-07

Well No. MW-3

Purge Method: JL DIA HB

Depth to Water (feet): 8.82

Depth to Product (feet):                     

Total Depth (feet): 18.42

LPH & Water Recovered (gallons):                     

Water Column (feet): 9.60

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 10.74

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
0642			2	2386	17.4	7.16			
			4	2400	17.6	7.13			
	0652		6	2438	17.6	7.10			
Static at Time Sampled			Total Gallons Purged			Sample Time			
10.74			6			0658			
Comments:									

Well No. \_\_\_\_\_

Purge Method: \_\_\_\_\_

Depth to Water (feet): \_\_\_\_\_

Depth to Product (feet): \_\_\_\_\_

Total Depth (feet): \_\_\_\_\_

LPH & Water Recovered (gallons): \_\_\_\_\_

Water Column (feet): \_\_\_\_\_

Casing Diameter (Inches): \_\_\_\_\_

80% Recharge Depth(feet): \_\_\_\_\_

1 Well Volume (gallons): \_\_\_\_\_

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F.C)	pH	D.O.	ORP	Turbidity
Static at Time Sampled			Total Gallons Purged			Sample Time			
Comments:									





Date of Report: 04/09/2007

Anju Farfan

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

RE: 6419  
BC Work Order: 0703737

Enclosed are the results of analyses for samples received by the laboratory on 03/29/2007 21:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Vanessa Hooker", written over a horizontal line.

Contact Person: Vanessa Hooker  
Client Service Rep

A handwritten signature in black ink, appearing to read "Steven Bennett", written over a horizontal line.

Authorized Signature

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

Project: 6419  
 Project Number: [none]  
 Project Manager: Anju Farfan

Reported: 04/09/2007 12:58

## Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
0703737-01	<b>COC Number:</b> --- <b>Project Number:</b> 6419 <b>Sampling Location:</b> MW-1 <b>Sampling Point:</b> MW-1 <b>Sampled By:</b> Joe of TRCI	<b>Receive Date:</b> 03/29/2007 21:25 <b>Sampling Date:</b> 03/29/2007 06:34 <b>Sample Depth:</b> --- <b>Sample Matrix:</b> Water	<b>Delivery Work Order:</b> Global ID: T0600101443 Matrix: W Sample QC Type (SACode): CS Cooler ID:
0703737-02	<b>COC Number:</b> --- <b>Project Number:</b> 6419 <b>Sampling Location:</b> MW-5 <b>Sampling Point:</b> MW-5 <b>Sampled By:</b> Joe of TRCI	<b>Receive Date:</b> 03/29/2007 21:25 <b>Sampling Date:</b> 03/29/2007 06:58 <b>Sample Depth:</b> --- <b>Sample Matrix:</b> Water	<b>Delivery Work Order:</b> Global ID: T0600101443 Matrix: W Sample QC Type (SACode): CS Cooler ID:
0703737-03	<b>COC Number:</b> --- <b>Project Number:</b> 6419 <b>Sampling Location:</b> MW-3 <b>Sampling Point:</b> MW-3 <b>Sampled By:</b> Joe of TRCI	<b>Receive Date:</b> 03/29/2007 21:25 <b>Sampling Date:</b> 03/29/2007 07:20 <b>Sample Depth:</b> --- <b>Sample Matrix:</b> Water	<b>Delivery Work Order:</b> Global ID: T0600101443 Matrix: W Sample QC Type (SACode): CS Cooler ID:

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 21 Technology Drive  
 Irvine, CA 92618-2302

 Project: 6419  
 Project Number: [none]  
 Project Manager: Anju Farfan

Reported: 04/09/2007 12:58

## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0703737-01		Client Sample Name:	6419, MW-1, MW-1, 3/29/2007 6:34:00AM, Joe									
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	04/04/07	04/05/07 00:12	SDU	MS-V10	1	BQD0200	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	04/04/07	04/05/07 00:12	SDU	MS-V10	1	BQD0200	ND	
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	04/04/07	04/05/07 00:12	SDU	MS-V10	1	BQD0200	ND	
Toluene	ND	ug/L	0.50		EPA-8260	04/04/07	04/05/07 00:12	SDU	MS-V10	1	BQD0200	ND	
Total Xylenes	ND	ug/L	0.50		EPA-8260	04/04/07	04/05/07 00:12	SDU	MS-V10	1	BQD0200	ND	
Ethanol	ND	ug/L	250		EPA-8260	04/04/07	04/05/07 00:12	SDU	MS-V10	1	BQD0200	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	04/04/07	04/05/07 00:12	SDU	MS-V10	1	BQD0200	ND	
1,2-Dichloroethane-d4 (Surrogate)	100	%	76 - 114 (LCL - UCL)		EPA-8260	04/04/07	04/05/07 00:12	SDU	MS-V10	1	BQD0200		
Toluene-d8 (Surrogate)	93.8	%	88 - 110 (LCL - UCL)		EPA-8260	04/04/07	04/05/07 00:12	SDU	MS-V10	1	BQD0200		
4-Bromofluorobenzene (Surrogate)	103	%	86 - 115 (LCL - UCL)		EPA-8260	04/04/07	04/05/07 00:12	SDU	MS-V10	1	BQD0200		

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 Project: 6419  
 Project Number: [none]  
 Project Manager: Anju Farfan

Reported: 04/09/2007 12:58

## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0703737-02		Client Sample Name: 6419, MW-5, MW-5, 3/29/2007 6:58:00AM, Joe											
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	04/04/07	04/05/07 21:19	SDU	MS-V10	1	BQD0200	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	04/04/07	04/05/07 21:19	SDU	MS-V10	1	BQD0200	ND	
Methyl t-butyl ether	690	ug/L	5.0		EPA-8260	04/04/07	04/04/07 20:39	SDU	MS-V10	10	BQD0200	ND	A01
Toluene	ND	ug/L	0.50		EPA-8260	04/04/07	04/05/07 21:19	SDU	MS-V10	1	BQD0200	ND	
Total Xylenes	ND	ug/L	0.50		EPA-8260	04/04/07	04/05/07 21:19	SDU	MS-V10	1	BQD0200	ND	
Ethanol	ND	ug/L	250		EPA-8260	04/04/07	04/05/07 21:19	SDU	MS-V10	1	BQD0200	ND	
Total Purgeable Petroleum Hydrocarbons	520	ug/L	50		EPA-8260	04/04/07	04/05/07 21:19	SDU	MS-V10	1	BQD0200	ND	A53
1,2-Dichloroethane-d4 (Surrogate)	99.6	%	76 - 114 (LCL - UCL)		EPA-8260	04/04/07	04/04/07 20:39	SDU	MS-V10	10	BQD0200		
1,2-Dichloroethane-d4 (Surrogate)	97.4	%	76 - 114 (LCL - UCL)		EPA-8260	04/04/07	04/05/07 21:19	SDU	MS-V10	1	BQD0200		
Toluene-d8 (Surrogate)	99.9	%	88 - 110 (LCL - UCL)		EPA-8260	04/04/07	04/05/07 21:19	SDU	MS-V10	1	BQD0200		
Toluene-d8 (Surrogate)	99.3	%	88 - 110 (LCL - UCL)		EPA-8260	04/04/07	04/04/07 20:39	SDU	MS-V10	10	BQD0200		
4-Bromofluorobenzene (Surrogate)	103	%	86 - 115 (LCL - UCL)		EPA-8260	04/04/07	04/04/07 20:39	SDU	MS-V10	10	BQD0200		
4-Bromofluorobenzene (Surrogate)	103	%	86 - 115 (LCL - UCL)		EPA-8260	04/04/07	04/05/07 21:19	SDU	MS-V10	1	BQD0200		

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 Project: 6419  
 Project Number: [none]  
 Project Manager: Anju Farfan

Reported: 04/09/2007 12:58

## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0703737-03												
Client Sample Name:	6419, MW-3, MW-3, 3/29/2007 7:20:00AM, Joe												
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	04/04/07	04/05/07 10:51	SDU	MS-V10	1	BQD0200	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	04/04/07	04/05/07 10:51	SDU	MS-V10	1	BQD0200	ND	
Methyl t-butyl ether	230	ug/L	10		EPA-8260	04/04/07	04/04/07 21:32	SDU	MS-V10	20	BQD0200	ND	A01
Toluene	ND	ug/L	0.50		EPA-8260	04/04/07	04/05/07 10:51	SDU	MS-V10	1	BQD0200	ND	
Total Xylenes	ND	ug/L	0.50		EPA-8260	04/04/07	04/05/07 10:51	SDU	MS-V10	1	BQD0200	ND	
Ethanol	ND	ug/L	250		EPA-8260	04/04/07	04/05/07 10:51	SDU	MS-V10	1	BQD0200	ND	
Total Purgeable Petroleum Hydrocarbons	230	ug/L	50		EPA-8260	04/04/07	04/05/07 10:51	SDU	MS-V10	1	BQD0200	ND	A53
1,2-Dichloroethane-d4 (Surrogate)	102	%	76 - 114 (LCL - UCL)		EPA-8260	04/04/07	04/04/07 21:32	SDU	MS-V10	20	BQD0200		
1,2-Dichloroethane-d4 (Surrogate)	100	%	76 - 114 (LCL - UCL)		EPA-8260	04/04/07	04/05/07 10:51	SDU	MS-V10	1	BQD0200		
Toluene-d8 (Surrogate)	99.7	%	88 - 110 (LCL - UCL)		EPA-8260	04/04/07	04/05/07 10:51	SDU	MS-V10	1	BQD0200		
Toluene-d8 (Surrogate)	98.0	%	88 - 110 (LCL - UCL)		EPA-8260	04/04/07	04/04/07 21:32	SDU	MS-V10	20	BQD0200		
4-Bromofluorobenzene (Surrogate)	107	%	86 - 115 (LCL - UCL)		EPA-8260	04/04/07	04/05/07 10:51	SDU	MS-V10	1	BQD0200		
4-Bromofluorobenzene (Surrogate)	103	%	86 - 115 (LCL - UCL)		EPA-8260	04/04/07	04/04/07 21:32	SDU	MS-V10	20	BQD0200		

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 Project: 6419  
 Project Number: [none]  
 Project Manager: Anju Farfan

Reported: 04/09/2007 12:58

## 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	BQD0200	Matrix Spike	0703724-01	0	23.640	25.000	ug/L		94.6		70 - 130
		Matrix Spike Duplicate	0703724-01	0	23.060	25.000	ug/L	2.6	92.2	20	70 - 130
Toluene	BQD0200	Matrix Spike	0703724-01	0	25.350	25.000	ug/L		101		70 - 130
		Matrix Spike Duplicate	0703724-01	0	25.130	25.000	ug/L	0	101	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	BQD0200	Matrix Spike	0703724-01	ND	9.7400	10.000	ug/L		97.4		76 - 114
		Matrix Spike Duplicate	0703724-01	ND	10.130	10.000	ug/L		101		76 - 114
Toluene-d8 (Surrogate)	BQD0200	Matrix Spike	0703724-01	ND	9.9300	10.000	ug/L		99.3		88 - 110
		Matrix Spike Duplicate	0703724-01	ND	9.7900	10.000	ug/L		97.9		88 - 110
4-Bromofluorobenzene (Surrogate)	BQD0200	Matrix Spike	0703724-01	ND	10.140	10.000	ug/L		101		86 - 115
		Matrix Spike Duplicate	0703724-01	ND	10.170	10.000	ug/L		102		86 - 115

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 Project: 6419  
 Project Number: [none]  
 Project Manager: Anju Farfan

Reported: 04/09/2007 12:58

## 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	BQD0200	BQD0200-BS1	LCS	22.220	25.000	0.50	ug/L	88.9		70 - 130		
Toluene	BQD0200	BQD0200-BS1	LCS	24.640	25.000	0.50	ug/L	98.6		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BQD0200	BQD0200-BS1	LCS	9.6200	10.000		ug/L	96.2		76 - 114		
Toluene-d8 (Surrogate)	BQD0200	BQD0200-BS1	LCS	9.9400	10.000		ug/L	99.4		88 - 110		
4-Bromofluorobenzene (Surrogate)	BQD0200	BQD0200-BS1	LCS	10.030	10.000		ug/L	100		86 - 115		

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 21 Technology Drive  
 Irvine, CA 92618-2302

 Project: 6419  
 Project Number: [none]  
 Project Manager: Anju Farfan

Reported: 04/09/2007 12:58

## 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	BQD0200	BQD0200-BLK1	ND	ug/L	0.50		
Ethylbenzene	BQD0200	BQD0200-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BQD0200	BQD0200-BLK1	ND	ug/L	0.50		
Toluene	BQD0200	BQD0200-BLK1	ND	ug/L	0.50		
Total Xylenes	BQD0200	BQD0200-BLK1	ND	ug/L	0.50		
Ethanol	BQD0200	BQD0200-BLK1	ND	ug/L	250		
Total Purgeable Petroleum Hydrocarbons	BQD0200	BQD0200-BLK1	ND	ug/L	50		
1,2-Dichloroethane-d4 (Surrogate)	BQD0200	BQD0200-BLK1	98.6	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BQD0200	BQD0200-BLK1	96.2	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BQD0200	BQD0200-BLK1	102	%	86 - 115 (LCL - UCL)		



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

Project: 6419  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 04/09/2007 12:58

### 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.  
A53 Chromatogram not typical of gasoline.

Submission #: 07-07737

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 86  
Temperature: 4.3 °C  
Thermometer ID: 48

Emissivity 0.95  
Container 109

Date/Time 3/29/17

Analyst Init Am

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

Comments:  
Sample Numbering Completed By: Am Date/Time: 3/30/17 0030

#07-03737

**BC LABORATORIES, INC.**

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

**CHAIN OF CUSTODY**

**Analysis Requested**

Bill to: Conoco Phillips/ TRC		Consultant Firm: TRC		MATRIX (GW) Ground-water (S) Soil (WW) Waste-water (SL) Sludge	BTEX/MTBE by 8021B, Gas by 8015 TPH GAS by 8015M TPH DIESEL by 8015 8260 full list w/ oxygenates BTEX/MTBE/XX6 BY 8260B ETHANOL by 8260B TPH -G by GC/MS									Turnaround Time Requested	
Address: 6401 Dublin Blvd.		21 Techology Drive Irvine, CA 92618-2302 Attn: Anju Farfan													
City: Dublin		4-digit site#: 6419 Workorder # 02527-4507058319													
State: CA	Zip:	Project #: 41060001													
Conoco Phillips Mgr: K. Woodburne		Sampler Name: JOE LEWIS													
Lab#	Sample Description	Field Point Name	Date & Time Sampled												
		MW-1 -1	03-29-07 0634	GW											STD
		MW-5 -2	0658												
		MW-3 -3	0720												

Comments: Run 8 OXYS by 8260 on 8260 MTBE hit on MW-1 only  GLOBAL ID: <del>XXXX</del> T0600101443	Relinquished by: (Signature) <i>Joe D. Lewis</i>	Received by: refrigerator	Date & Time 03-29-07 1032
	Relinquished by: (Signature) <i>[Signature]</i>	Received by: Ross Dickey	Date & Time 3/29/07 1410
	Relinquished by: (Signature) Ross Dickey 3/29/07	Received by: [Signature]	Date & Time 3-29-07 1755

(A) = ANALYSIS      (C) = CONTAINER      (P) = PRESERVATIVE  
 R. Reynolds 3-29-07 2105      [Signature] 3/20/6 2125

## **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.