

R0459



**Shaw** Shaw Environmental, Inc.

4005 Port Chicago Hwy  
Concord, California 94520

**RECEIVED**  
APR 28 2005  
ENVIRONMENTAL HEALTH SERVICES

Mr. Don Hwang  
Alameda County Health Agency  
1131 Harbor Bay Parkway  
Alameda, California 94502

Re: **Report Transmittal**  
**Quarterly Report**  
**First Quarter - 2005**  
**76 Service Station #6419**  
**6401 Dublin Boulevard**  
**Dublin, CA**

Dear Mr. Hwang:

I declare under penalty of perjury that to the best of my knowledge the information and/or recommendations contained in the attached report is/are true and correct.

If you have any questions or need additional information, please call me at (916) 558-7609.

Sincerely,

**Shelby Suzanne Lathrop**  
Project Manager  
Shaw Environmental, Inc.  
Approved service provider of ConocoPhillips -Risk Management & Remediation  
Cell: 707-592-1146

Client Contact Information:  
**ConocoPhillips**  
76 Broadway  
Sacramento, California 95818  
Client office: 916-558-7609  
Client fax: 916-558-7639

Attachment  
cc: Liz Sewell, ConocoPhillips



*Customer-Focused Solutions*

April 22, 2005

TRC Project No. 42017001

Mr. Don Hwang  
Alameda County Health Services  
1131 Harbor Bay Parkway  
Alameda, CA 94502-6577

**RE: Quarterly Status Report - First Quarter 2005  
76 Service Station #6419, 6401 Dublin Boulevard, Dublin, California  
Alameda County**

Dear Mr. Hwang:

On behalf of ConocoPhillips Company (ConocoPhillips), TRC is submitting the First Quarter 2005 Quarterly Status Report for the subject site, shown on Figures 3 through 5.

#### **PREVIOUS ASSESSMENTS**

The subject site is an active service station located on the western corner of Dublin Boulevard and Dougherty Road in Dublin, California. The site is bounded to the southeast by Dublin Boulevard, to the northeast by Dougherty Road, and to the northwest and southwest by a shopping center parking lot. Properties in the immediate site vicinity are commercial, including service stations and retail shopping facilities.

Current aboveground site facilities consist of two dispenser islands, a car wash, and a station building/convenience store. Two 12,000-gallon gasoline underground storage tanks (USTs) are located in the common pit immediately east of the station building.

September 1993: Two 10,000-gallon gasoline USTs, one 550-gallon waste oil UST, and the associated product piping were removed from the site with confirmation sampling. Groundwater was observed entering the UST excavation. Concentrations of petroleum hydrocarbons in confirmation soil samples beneath the fuel USTs were non-detect to low. Concentrations of petroleum hydrocarbons and volatile organic compounds (VOCs) in confirmation soil samples beneath the waste oil UST were non-detect to low, and concentrations of metals were considered background levels. Petroleum hydrocarbon and lead concentrations in confirmation soil samples from the dispenser islands were non-detect, and low, respectively. Petroleum hydrocarbon and lead concentrations in confirmation soil samples from the piping trenches were non-detect, and low, respectively.

February 1994: Three onsite monitoring wells were installed.

June 1999: Four onsite monitoring wells were installed to a depth of approximately 19 feet below ground surface (bgs).

November 1999: A four-inch diameter groundwater observation and extraction well (TPW-1) was installed in the gasoline UST pit backfill to allow purging of methyl tertiary butyl ether (MTBE) impacted groundwater.

September 2001: Two offsite monitoring wells were installed to a depth of 20 feet bgs.

October 2003: Site environmental consulting responsibilities were transferred to TRC.

December 2004: Offsite monitoring wells MW-8 and MW-9 were abandoned due to construction activities planned at those locations by Pin Brothers Fine Homes.

### **SENSITIVE RECEPTORS**

A sensitive receptor survey has not been conducted for this site.

### **MONITORING AND SAMPLING**

Historically, dissolved hydrocarbon concentrations in groundwater have ranged from non-detect to 9,200 ppb of TPH-g, non-detect to 130 ppb of benzene, and non-detect to 140,000 ppb of MTBE, with onsite well MW-1 showing the highest concentrations.

Seven onsite wells are currently monitored semi-annually. All wells were sampled this quarter. The groundwater gradient and flow direction were 0.02 foot/foot to the south.

### **CHARACTERIZATION STATUS**

Total purgeable petroleum hydrocarbons (TPPH) were detected in one of seven monitoring wells, with a maximum concentration of 110 micrograms per liter ( $\mu\text{g/l}$ ) in well MW-2.

Benzene was not detected in the seven monitoring wells sampled.

MTBE was detected in all of the seven monitoring wells, with a maximum concentration of 1,600  $\mu\text{g/l}$  in well MW-3.

### **REMEDIATION STATUS**

September 1993: Approximately 19,000 gallons of groundwater were removed from the UST excavation and properly disposed offsite. A hydrocarbon sheen was observed on the surface of the groundwater in the southwest corner of the excavation. Approximately 850 cubic yards of excavated soil was properly disposed offsite. Two 12,000-gallon and one 520-gallon double-wall glasteel replacement USTs were installed in the same pit.

July 1998: A soil vapor extraction test was conducted. Approximately 0.53 pounds of TPH-g and 6.5 pounds of MTBE (approximately 1 gallon of gasoline/additive) were extracted during the four-day test. The effective radius of influence was thought to be less than 40 feet.

December 1999 through December 2002: Approximately 649,600 gallons of groundwater containing an estimated 130.21 pounds of MTBE were removed from the tank pit observation and extraction well and removed from the site. Batch extractions were ended February 5, 2003, based on asymptotic levels of cumulative pounds of MTBE removed. The purged groundwater was transported to, treated, and disposed of at the ConocoPhillips refinery located in Rodeo, California.

Remediation is not currently being conducted at the site.

#### **RECENT CORRESPONDENCE**

No correspondence this quarter.

#### **CURRENT QUARTER ACTIVITIES**

September 17, 2004: TRC performed groundwater monitoring and sampling. Wastewater generated from well purging and equipment cleaning was stored at TRC's groundwater monitoring facility in Concord, California, and transported by Onyx to the ConocoPhillips Refinery in Rodeo, California, for treatment and disposal.

January 25, 2005: TRC submitted the Well Abandonment Report for the destruction of monitoring wells MW-8 and MW-9 to Alameda County Environmental Health Services.

#### **NEXT QUARTER ACTIVITIES**

Discuss path forward with agency including closure as applicable either as-is or with minor (i.e. short-term, localized) remediation measures. Alternately, closure goals could be possibly met after completion of a Risk-Based Corrective Action Plan as authorized by the lead regulatory agency, pending further dialogue.

Continue semi-annual monitoring and sampling to assess plume stability and concentration trends at key wells.

QSR – First Quarter 2005  
76 Service Station #6419, Dublin, California  
April 22, 2005  
Page 4

If you have any questions regarding this report, please call me at (925) 688-2466.

Sincerely,

TRC



Roger Batra  
Senior Project Manager

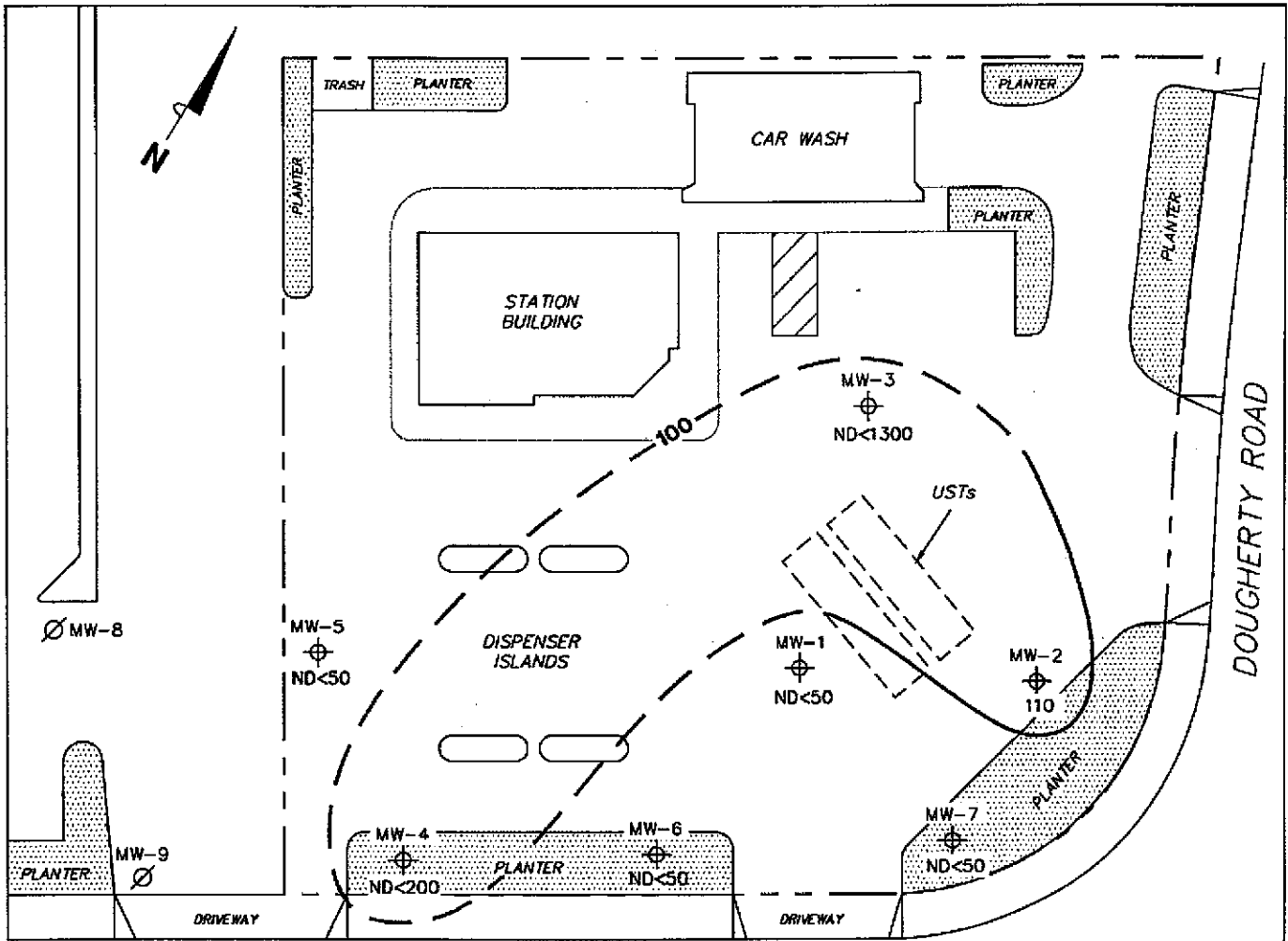
Attachments:

Figure 3 – Dissolved-Phase TPPH Concentration Map, March 22, 2005, from Semi-Annual Monitoring Report, October 2004 through March 2005, dated April 17, 2005 by TRC.

Figure 4 – Dissolved-Phase Benzene Concentration Map, March 22, 2005, from Semi-Annual Monitoring Report, October 2004 through March 2005, dated April 17, 2005 by TRC.

Figure 5 – Dissolved-Phase MTBE Concentration Map, March 22, 2005, Semi-Annual Monitoring Report, October 2004 through March 2005, dated April 17, 2005 by TRC.

cc: Shelby Lathrop, ConocoPhillips (electronic upload)



DUBLIN BOULEVARD

**NOTES:**

Contour lines are interpretive and based on laboratory analysis results of groundwater samples.  
 TPPH = total purgeable petroleum hydrocarbons.  
 $\mu\text{g/l}$  = micrograms per liter. ND = not detected at limit indicated on official laboratory report.  
 UST = underground storage tank. Results obtained using EPA Method 8260B. Dashes indicate non-detect at elevated detection limit.

**LEGEND**

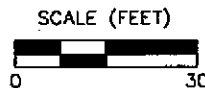
- MW-7  $\oplus$  Monitoring Well with Dissolved-Phase TPPH Concentration ( $\mu\text{g/l}$ )
- MW-9  $\emptyset$  Abandoned Monitoring Well
- 100— Dissolved-Phase TPPH Contour ( $\mu\text{g/l}$ )

**DISSOLVED-PHASE TPPH CONCENTRATION MAP**  
 March 22, 2005

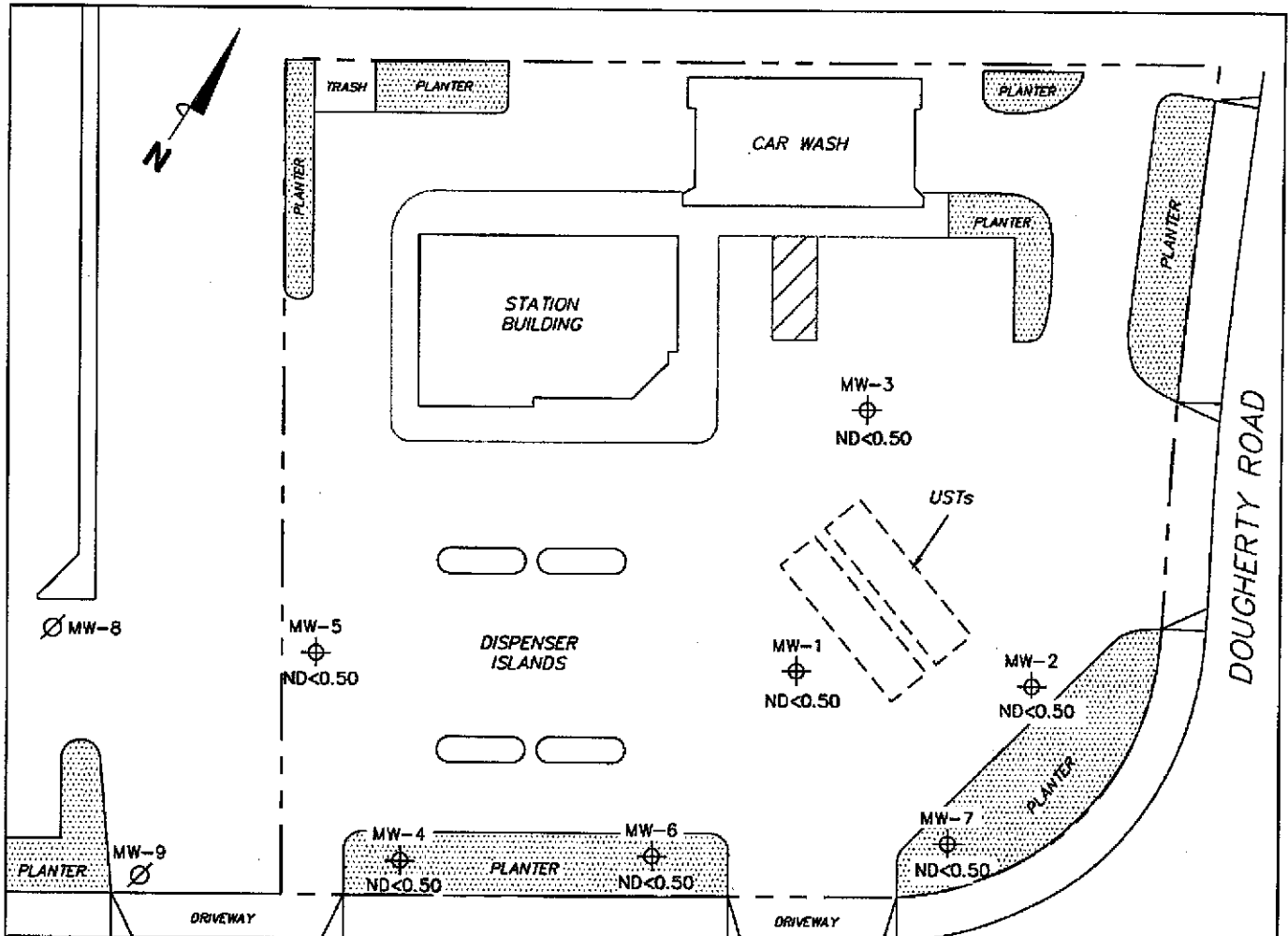
76 Station 6419  
 6401 Dublin Boulevard  
 Dublin, California

**FIGURE 3**

**TRC**



PS=1:1 6419-003



DUBLIN BOULEVARD

**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 22, 2005

76 Station 6419  
 6401 Dublin Boulevard  
 Dublin, California

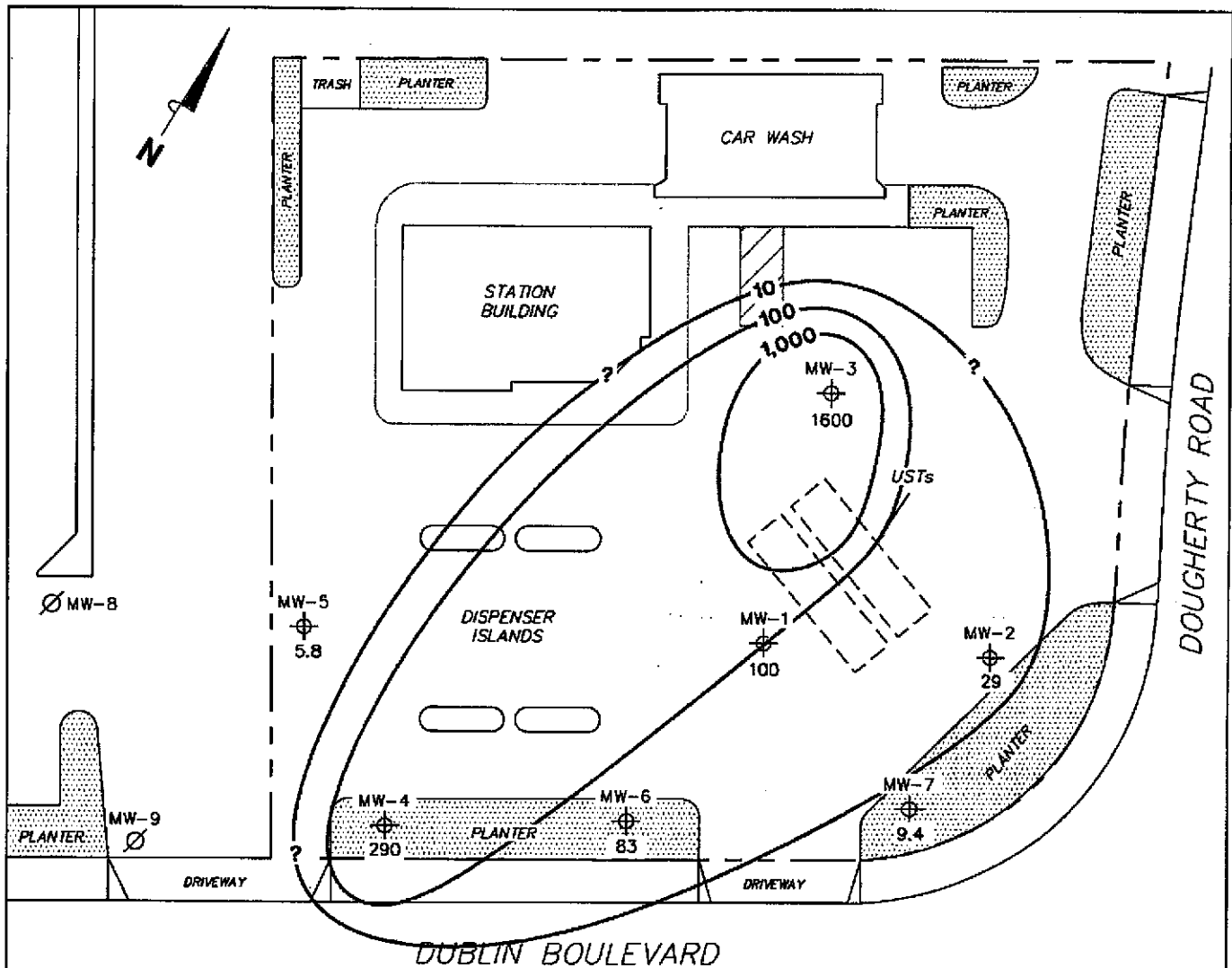
**TRC**

SCALE (FEET)



**FIGURE 4**

PS=1:1 6419-003



**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**

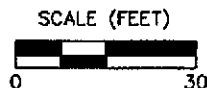
- MW-7 ⊕ Monitoring Well with Dissolved-Phase MTBE Concentration (µg/l)
- MW-9 ∅ Abandoned Monitoring Well
- 1,000- Dissolved-Phase MTBE Contour (µg/l)

**DISSOLVED-PHASE MTBE CONCENTRATION MAP  
March 22, 2005**

76 Station 6419  
6401 Dublin Boulevard  
Dublin, California

**FIGURE 5**

**TRC**



PS=1:1 6419-003





Customer-Focused Solutions

April 17, 2005

ConocoPhillips Company  
76 Broadway  
Sacramento, CA 95818

ATTN: MR. THOMAS H. KOSEL

SITE: 76 STATION 6419  
6401 DUBLIN BOULEVARD  
DUBLIN, CALIFORNIA

RE: SEMI-ANNUAL MONITORING REPORT  
OCTOBER 2004 THROUGH MARCH 2005

Dear Mr. Kosel:

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) 753-0101.

Sincerely,

TRC

Anju Farfan  
QMS Operations Manager

CC: Mr. Roger Batra, TRC (2 copies)

Enclosures  
20-0400/6419R04.QMS





Customer-Focused Solutions

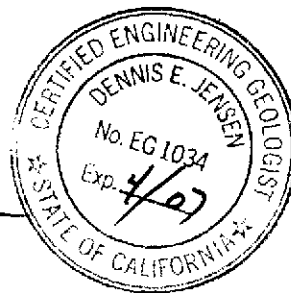
**SEMI-ANNUAL MONITORING REPORT  
OCTOBER 2004 THROUGH MARCH 2005**

76 STATION 6419  
6401 Dublin Boulevard  
Dublin, California

Prepared For:

Mr. Thomas H. Kosel  
ConocoPhillips Company  
76 Broadway  
Sacramento, California 95818

By:



Senior Project Geologist, Irvine Operations  
April 16, 2005

### LIST OF ATTACHMENTS

Summary Sheet	Summary of Gauging and Sampling Activities
Tables	Table Key Table 1: Current Fluid Levels and Selected Analytical Results Table 2: Historic Fluid Levels and Selected Analytical Results Table 3: Additional Analytical Results Table 3b: Additional Analytical Results
Figures	Figure 1: Vicinity Map Figure 2: Groundwater Elevation Contour Map Figure 3: Dissolved-Phase TPPH 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 Groundwater Sampling Field Notes
Laboratory Reports	Official Laboratory Reports Quality Control Reports Chain of Custody Records
Statements	Purge Water Disposal Limitations

**Summary of Gauging and Sampling Activities**  
**October 2004 through March 2005**  
**76 Station 6419**  
**6401 Dublin Boulevard**  
**Dublin, CA**

Project Coordinator: **Thomas H. Kosel**  
Telephone: **916-558-7666**

Water Sampling Contractor: **TRC**  
Compiled by: **Valentina Tobon**

Date(s) of Gauging/Sampling Event: **03/22/05**

**Sample Points**

Groundwater wells: **7** onsite, **0** offsite      Wells gauged: **7**      Wells sampled: **7**  
Purging method: **Diaphragm pump/bailer**  
Purge water disposal: **Onyx/Rodeo Unit 100**  
Other Sample Points: **0**      Type: **n/a**

**Liquid Phase Hydrocarbons (LPH)**

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

**Hydrogeologic Parameters**

Depth to groundwater (below TOC):      Minimum: **5.29 feet**      Maximum: **6.37 feet**  
Average groundwater elevation (relative to available local datum): **324.61 feet**  
Average change in groundwater elevation since previous event: **1.76 feet**  
Interpreted groundwater gradient and flow direction:  
    Current event: **0.02 ft/ft, south**  
    Previous event: **0.01 ft/ft, south (09/17/04)**

**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 **TPPH 8260B**      **1**      Maximum: **110 µg/l (MW-2)**  
Wells with **MTBE**      **7**      Maximum: **1,600 µg/l (MW-3)**

**Notes:**

MW-8=Abandoned, MW-9=Abandoned,

# 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-D	=	total petroleum hydrocarbons with diesel distinction
TPPH	=	total purgeable petroleum hydrocarbons
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:  $\text{Surface Elevation} - \text{Measured Depth to Water} + \frac{(\text{Dp} \times \text{LPH Thickness})}{\text{Dp}}$ , 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.
9. Historical data has been validated for this report. Values presented in the following tables supercede those from previous reports.

### 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.

**Table 1**  
**CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**March 22, 2005**  
**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 (µg/l)	TPPH 8260B (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-1</b>	<b>(Screen Interval in feet: 4.0-19.0)</b>													
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	
<b>MW-2</b>	<b>(Screen Interval in feet: 4.0-20.0)</b>													
03/22/05	330.24	5.55	0.00	324.69	1.67	--	110	ND<0.50	1.3	0.68	2.4	--	29	
<b>MW-3</b>	<b>(Screen Interval in feet: 4.0-20.0)</b>													
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	
<b>MW-4</b>	<b>(Screen Interval in feet: 4.0-19.0)</b>													
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	
<b>MW-5</b>	<b>(Screen Interval in feet: 4.0-19.0)</b>													
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	
<b>MW-6</b>	<b>(Screen Interval in feet: 4.0-19.0)</b>													
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	
<b>MW-7</b>	<b>(Screen Interval in feet: 4.0-19.0)</b>													
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	
<b>MW-8</b>	<b>(Screen Interval in feet: DNA)</b>													
03/22/05	329.97	--	--	--	--	--	--	--	--	--	--	--	--	Abandoned
<b>MW-9</b>	<b>(Screen Interval in feet: DNA)</b>													
03/22/05	329.51	--	--	--	--	--	--	--	--	--	--	--	--	Abandoned

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**March 1994 Through March 2005**  
**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 (µg/l)	TPPH 8260B (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-1</b>		<b>(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	--	--	--	--	--	--	--	--	
08/02/99	330.21	6.75	0.00	323.46	-0.80	ND	--	ND	ND	ND	ND	91000	140000	



**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**March 1994 Through March 2005**  
**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 (µg/l)	TPPH 8260B (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-1 continued</b>														
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	
<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	--	--	
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	--	--	--	--	--	--	--	--	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**March 1994 Through March 2005**  
**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 (µg/l)	TPPH 8260B (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
MW-2 continued														
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	--	--	--	--	--	--	--	--	--	
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	--	--	--	--	--	--	--	--	
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	

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**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**March 1994 Through March 2005**  
**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 (µg/l)	TPPH 8260B (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>														
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	
<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	--	--	
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	--	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**March 1994 Through March 2005**  
**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 (µg/l)	TPPH 8260B (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-3 continued</b>														
05/21/99	330.49	6.16	0.00	324.33	--	--	--	--	--	--	--	--	--	
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	
<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	--	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	

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**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**March 1994 Through March 2005**  
**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 (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
<b>MW-4 continued</b>														
07/30/02	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	
<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	
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	--	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	
<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	--	

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**March 1994 Through March 2005**  
**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 (µg/l)	TPPH 8260B (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-6 continued</b>														
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	--	ND<200	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	1100	--	
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	
<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	--	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	

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<b>MW-7 continued</b>														
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	
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	
<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 3**  
**ADDITIONAL ANALYTICAL RESULTS**  
**76 Station 6419**

Date Sampled	TPH-D	EDC	EDB	Total Lead	Pre-Purge DO	Post Purge DO	TAME 8260B	TBA 8260B	DIPE 8260B	ETBE 8260B	Ethanol 8260B	Nickel	Cadmium	Chromium	T-Zinc
	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(mg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
<b>MW-1</b>															
03/14/94	810	--	--	ND	--	--	--	--	--	--	--	0.00003	ND	0.000012	0.039
08/25/94	910	--	--	0.024	--	--	--	--	--	--	--	ND	ND	ND	--
11/18/94	910	--	--	ND	--	--	--	--	--	--	--	0.067	ND	0.067	--
02/15/95	660	--	--	ND	--	4.3	--	--	--	--	--	ND	ND	ND	--
05/17/95	200	--	--	ND	--	1.2	--	--	--	--	--	0.021	ND	ND	--
08/25/95	--	--	--	--	--	2.71	--	--	--	--	--	--	--	--	--
11/28/95	--	--	--	--	--	3.25	--	--	--	--	--	--	--	--	--
02/26/96	--	--	--	--	5.23	1.41	--	--	--	--	--	--	--	--	--
08/23/96	--	--	--	--	3.83	--	--	--	--	--	--	--	--	--	--
02/17/97	--	--	--	--	0.82	0.78	--	--	--	--	--	--	--	--	--
08/18/97	--	--	--	--	1.28	2.35	--	--	--	--	--	--	--	--	--
07/26/00	--	ND	ND	--	--	--	ND	ND	ND	ND	--	--	--	--	--
05/16/01	--	--	--	--	1.54	--	--	--	--	--	--	--	--	--	--
08/24/01	--	ND<100	ND<100	--	--	3.1	ND<100	ND<1000	ND<100	ND<100	ND<25000	--	--	--	--
02/06/02	--	ND<5.0	ND<5.0	--	--	--	ND<5.0	ND<100	ND<5.0	ND<5.0	ND<2500	--	--	--	--
07/30/02	--	ND<40	ND<40	--	--	--	ND<40	ND<2000	ND<40	ND<40	ND<10000	--	--	--	--
02/17/03	--	ND<10	ND<10	--	--	--	ND<10	ND<500	ND<10	ND<10	ND<2500	--	--	--	--
08/18/03	--	ND<80	ND<80	--	--	--	ND<80	ND<4000	ND<80	ND<80	ND<20000	--	--	--	--
02/24/04	--	ND<40	ND<40	--	--	--	ND<40	ND<2000	ND<40	ND<40	ND<10000	--	--	--	--
09/17/04	--	ND<0.5	ND<0.5	--	--	--	ND<0.5	470	ND<1.0	ND<0.5	ND<50	--	--	--	--
03/22/05	--	ND<0.5	ND<0.50	--	--	--	ND<0.5	ND<5.0	ND<0.5	ND<0.5	ND<50	--	--	--	--
<b>MW-2</b>															
02/15/95	--	--	--	--	--	1.9	--	--	--	--	--	--	--	--	--
02/26/96	--	--	--	--	0.62	0.43	--	--	--	--	--	--	--	--	--
08/23/96	--	--	--	--	2.04	--	--	--	--	--	--	--	--	--	--
02/17/97	--	--	--	--	0.9	0.82	--	--	--	--	--	--	--	--	--



**Table 3**  
**ADDITIONAL ANALYTICAL RESULTS**  
**76 Station 6419**

Date Sampled	TPH-D (µg/l)	EDC (µg/l)	EDB (µg/l)	Total Lead (mg/l)	Pre-Purge DO (mg/l)	Post Purge DO (mg/l)	TAME 8260B (µg/l)	TBA 8260B (µg/l)	DIPE 8260B (µg/l)	ETBE 8260B (µg/l)	Ethanol 8260B (µg/l)	Nickel (mg/l)	Cadmium (mg/l)	Chromium (mg/l)	T-Zinc (mg/l)
<b>MW-2 continued</b>															
08/18/97	--	--	--	--	1.16	--	--	--	--	--	--	--	--	--	--
05/16/01	--	--	--	--	1.47	--	--	--	--	--	--	--	--	--	--
08/24/01	--	--	--	--	--	2.6	--	--	--	--	--	--	--	--	--
02/06/02	--	ND<1.0	ND<1.0	--	--	--	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<500	--	--	--	--
08/18/03	--	--	--	--	--	--	--	--	--	--	ND<500	--	--	--	--
02/24/04	--	--	--	--	--	--	--	--	--	--	ND<1000	--	--	--	--
09/17/04	--	--	--	--	--	--	--	--	--	--	ND<50	--	--	--	--
03/22/05	--	--	--	--	--	--	--	--	--	--	ND<50	--	--	--	--
<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	--	--	--	--	16.83	1.11	--	--	--	--	--	--	--	--	--
08/23/96	--	--	--	--	3.29	--	--	--	--	--	--	--	--	--	--
02/17/97	--	--	--	--	0.8	0.8	--	--	--	--	--	--	--	--	--
08/18/97	--	--	--	--	1.43	--	--	--	--	--	--	--	--	--	--
05/16/01	--	--	--	--	1.65	2.6	--	--	--	--	--	--	--	--	--
08/24/01	--	--	--	--	--	2.60	--	--	--	--	--	--	--	--	--
02/06/02	--	ND<33	ND<33	--	--	--	ND<33	ND<670	ND<33	ND<33	ND<17000	--	--	--	--
08/18/03	--	--	--	--	--	--	--	--	--	--	ND<20000	--	--	--	--
02/24/04	--	--	--	--	--	--	--	--	--	--	ND<25000	--	--	--	--
09/17/04	--	--	--	--	--	--	--	--	--	--	ND<1300	--	--	--	--
03/22/05	--	--	--	--	--	--	--	--	--	--	ND<1300	--	--	--	--
<b>MW-4</b>															
08/24/01	--	--	--	--	--	2.3	--	--	--	--	--	--	--	--	--

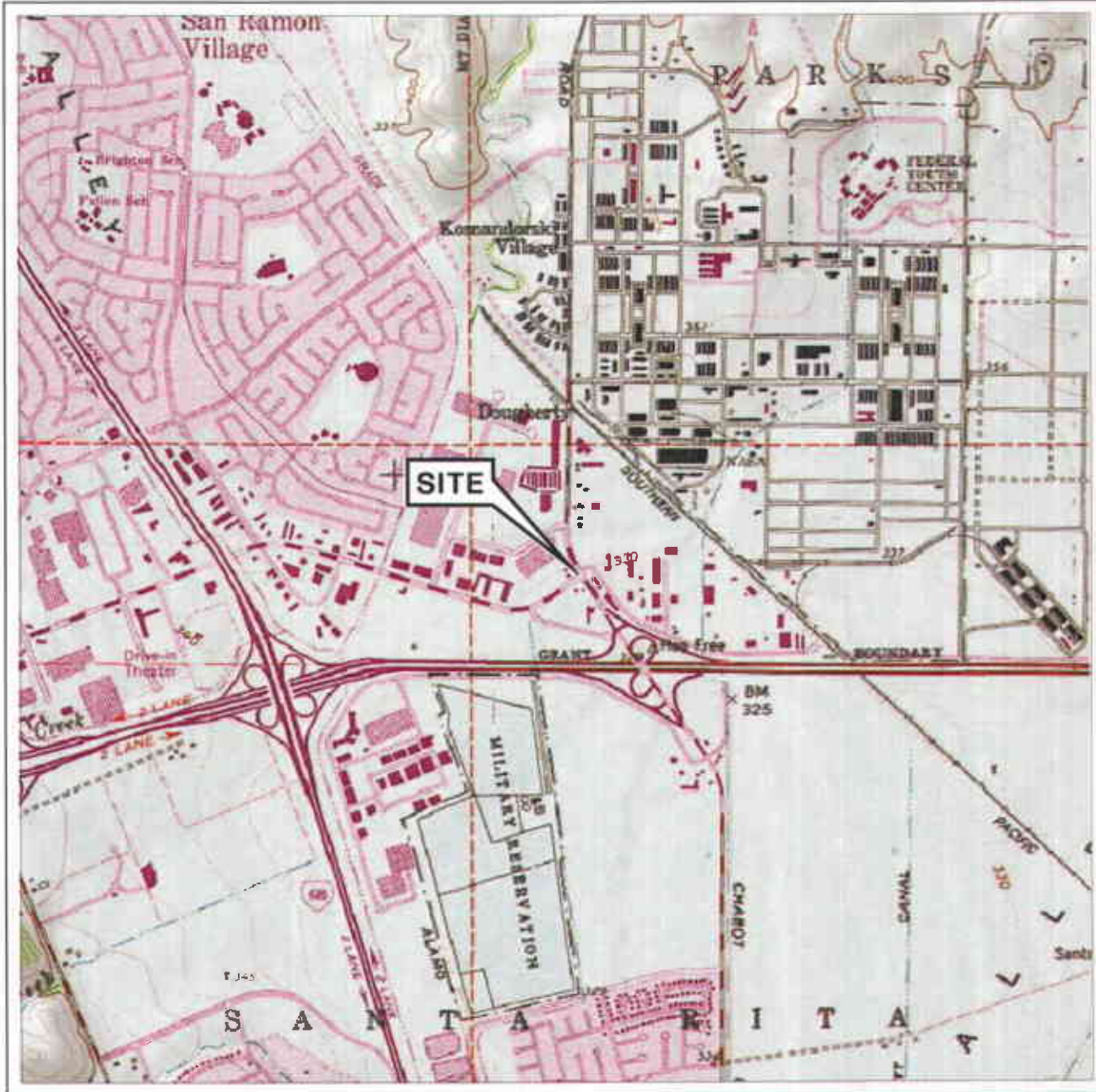
**Table 3**  
**ADDITIONAL ANALYTICAL RESULTS**  
**76 Station 6419**

Date Sampled	TPH-D (µg/l)	EDC (µg/l)	EDB (µg/l)	Total Lead (mg/l)	Pre-Purge DO (mg/l)	Post Purge DO (mg/l)	TAME 8260B (µg/l)	TBA 8260B (µg/l)	DIPE 8260B (µg/l)	ETBE 8260B (µg/l)	Ethanol 8260B (µg/l)	Nickel (mg/l)	Cadmium (mg/l)	Chromium (mg/l)	T-Zinc (mg/l)
<b>MW-4 continued</b>															
02/06/02	--	ND<25	ND<25	--	--	--	ND<25	ND<500	ND<25	ND<25	ND<12000	--	--	--	--
08/18/03	--	--	--	--	--	--	--	--	--	--	ND<10000	--	--	--	--
02/24/04	--	--	--	--	--	--	--	--	--	--	ND<20000	--	--	--	--
09/17/04	--	--	--	--	--	--	--	--	--	--	ND<250	--	--	--	--
03/22/05	--	--	--	--	--	--	--	--	--	--	ND<200	--	--	--	--
<b>MW-5</b>															
08/24/01	--	--	--	--	--	2.1	--	--	--	--	--	--	--	--	--
02/06/02	--	ND<1.0	ND<1.0	--	--	--	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<500	--	--	--	--
08/18/03	--	--	--	--	--	--	--	--	--	--	ND<500	--	--	--	--
02/24/04	--	--	--	--	--	--	--	--	--	--	ND<500	--	--	--	--
09/17/04	--	--	--	--	--	--	--	--	--	--	ND<50	--	--	--	--
03/22/05	--	--	--	--	--	--	--	--	--	--	ND<50	--	--	--	--
<b>MW-6</b>															
05/21/99	--	--	--	--	--	--	ND<8.3	ND<170	ND<8.3	ND<8.3	--	--	--	--	--
08/24/01	--	--	--	--	--	2.7	--	--	--	--	--	--	--	--	--
02/06/02	--	ND<8.3	ND<8.3	--	--	--	ND<8.3	ND<170	ND<8.3	ND<8.3	ND<4200	--	--	--	--
08/18/03	--	--	--	--	--	--	--	--	--	--	ND<1000	--	--	--	--
02/24/04	--	--	--	--	--	--	--	--	--	--	ND<1000	--	--	--	--
09/17/04	--	--	--	--	--	--	--	--	--	--	ND<100	--	--	--	--
03/22/05	--	--	--	--	--	--	--	--	--	--	ND<50	--	--	--	--
<b>MW-7</b>															
08/24/01	--	--	--	--	--	2.7	--	--	--	--	--	--	--	--	--
02/06/02	--	ND<1.0	ND<1.0	--	--	--	ND<1.0	ND<20	1.4	ND<1.0	ND<500	--	--	--	--
08/18/03	--	--	--	--	--	--	--	--	--	--	ND<500	--	--	--	--
02/24/04	--	--	--	--	--	--	--	--	--	--	ND<500	--	--	--	--
09/17/04	--	--	--	--	--	--	--	--	--	--	ND<50	--	--	--	--

**Table 3**  
**ADDITIONAL ANALYTICAL RESULTS**  
**76 Station 6419**

Date Sampled	TPH-D (µg/l)	EDC (µg/l)	EDB (µg/l)	Total Lead (mg/l)	Pre-Purge DO (mg/l)	Post Purge DO (mg/l)	TAME 8260B (µg/l)	TBA 8260B (µg/l)	DIPE 8260B (µg/l)	ETBE 8260B (µg/l)	Ethanol 8260B (µg/l)	Nickel (mg/l)	Cadmium (mg/l)	Chromium (mg/l)	T-Zinc (mg/l)
<b>MW-7 continued</b>															
03/22/05	--	--	--	--	--	--	--	--	--	--	ND<50	--	--	--	--
<b>MW-8</b>															
10/11/01	--	ND<2.0	ND<2.0	--	--	--	ND<2.0	ND<20	ND<2.0	ND<2.0	ND<500	--	--	--	--
02/06/02	--	ND<1.0	ND<1.0	--	--	--	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<500	--	--	--	--
08/18/03	--	--	--	--	--	--	--	--	--	--	ND<500	--	--	--	--
02/24/04	--	--	--	--	--	--	--	--	--	--	ND<500	--	--	--	--
09/17/04	--	--	--	--	--	--	--	--	--	--	ND<50	--	--	--	--
<b>MW-9</b>															
10/11/01	--	ND<2.0	ND<2.0	--	--	--	ND<2.0	ND<20	ND<2.0	ND<2.0	ND<500	--	--	--	--
02/06/02	--	ND<1.0	ND<1.0	--	--	--	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<500	--	--	--	--
08/18/03	--	--	--	--	--	--	--	--	--	--	ND<500	--	--	--	--
02/24/04	--	--	--	--	--	--	--	--	--	--	ND<500	--	--	--	--
09/17/04	--	--	--	--	--	--	--	--	--	--	ND<50	--	--	--	--

# FIGURES



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



SCALE 1:24,000



SOURCE:

United States Geological Survey  
7.5 Minute Topographic Map:  
Dublin Quadrangle



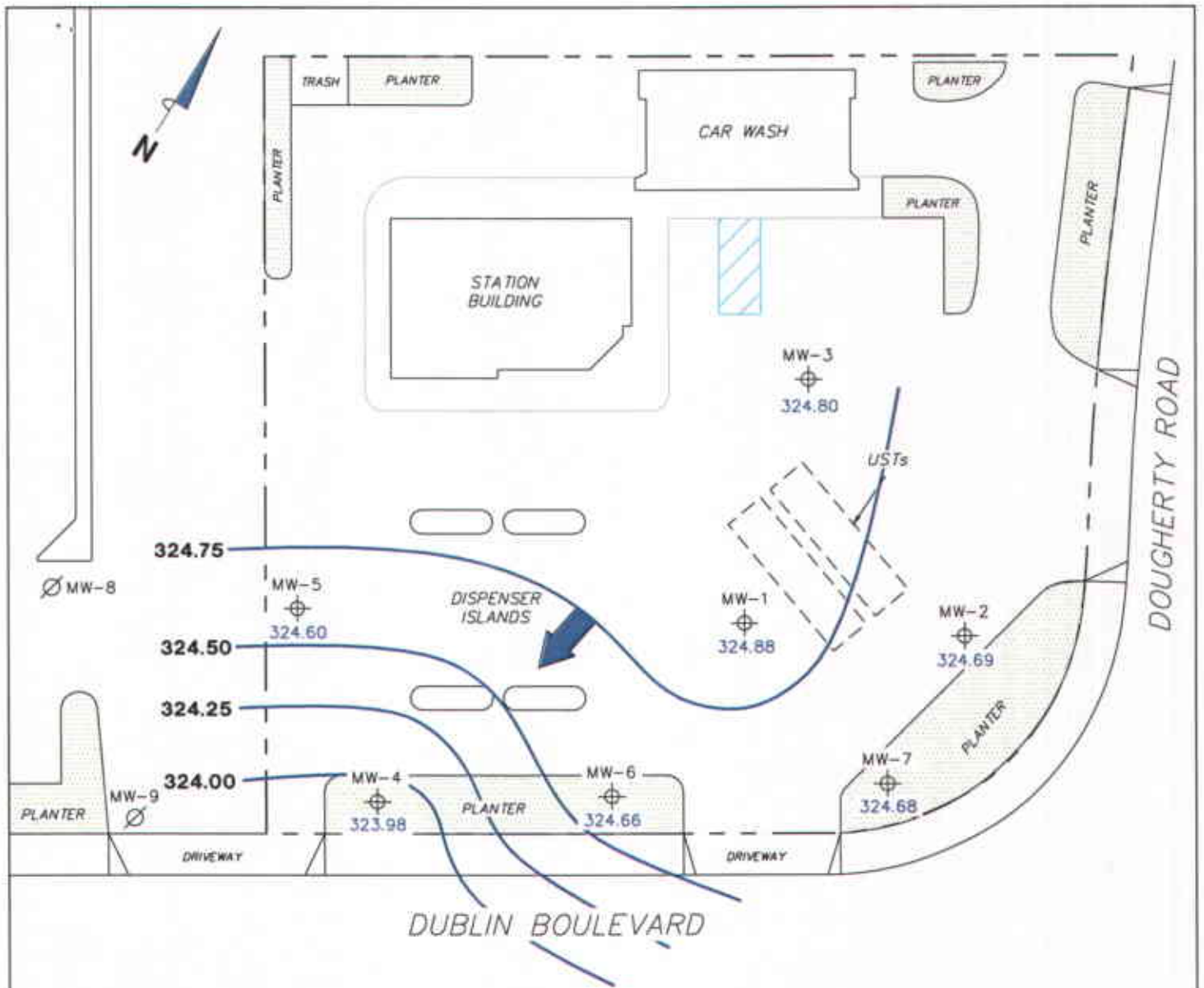
VICINITY MAP

76 Station 6419  
6401 Dublin Boulevard  
Dublin, California

FIGURE 1

**TRC**

PS = 1:1



**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.

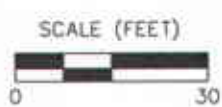
**LEGEND**

- MW-7 Monitoring Well with Groundwater Elevation (feet)
- MW-9 Abandoned Monitoring Well
- 324.75 Groundwater Elevation Contour
- General Direction of Groundwater Flow

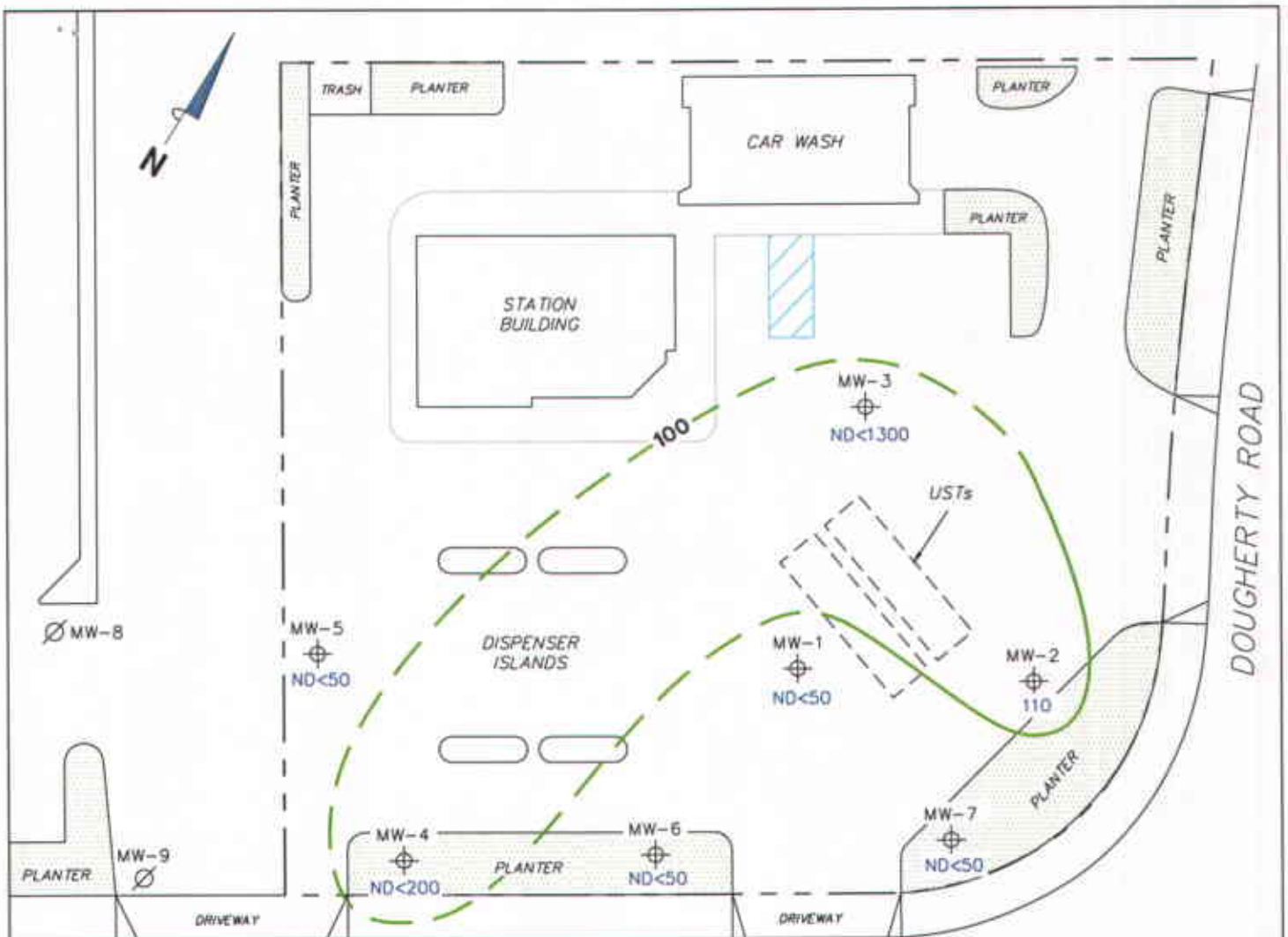
**GROUNDWATER ELEVATION CONTOUR MAP**  
**March 22, 2005**

76 Station 6419  
 6401 Dublin Boulevard  
 Dublin, California

**FIGURE 2**



MS=1:1 6419-035



DUBLIN BOULEVARD

**NOTES:**

Contour lines are interpretive and based on laboratory analysis results of groundwater samples.  
 TPPH = total purgeable petroleum hydrocarbons.  
 µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report.  
 UST = underground storage tank. Results obtained using EPA Method 8260B. Dashes indicate non-detect at elevated detection limit.

**LEGEND**

- MW-7 Monitoring Well with Dissolved-Phase TPPH Concentration (µg/l)
- MW-9 Abandoned Monitoring Well
- 100 Dissolved-Phase TPPH Contour (µg/l)

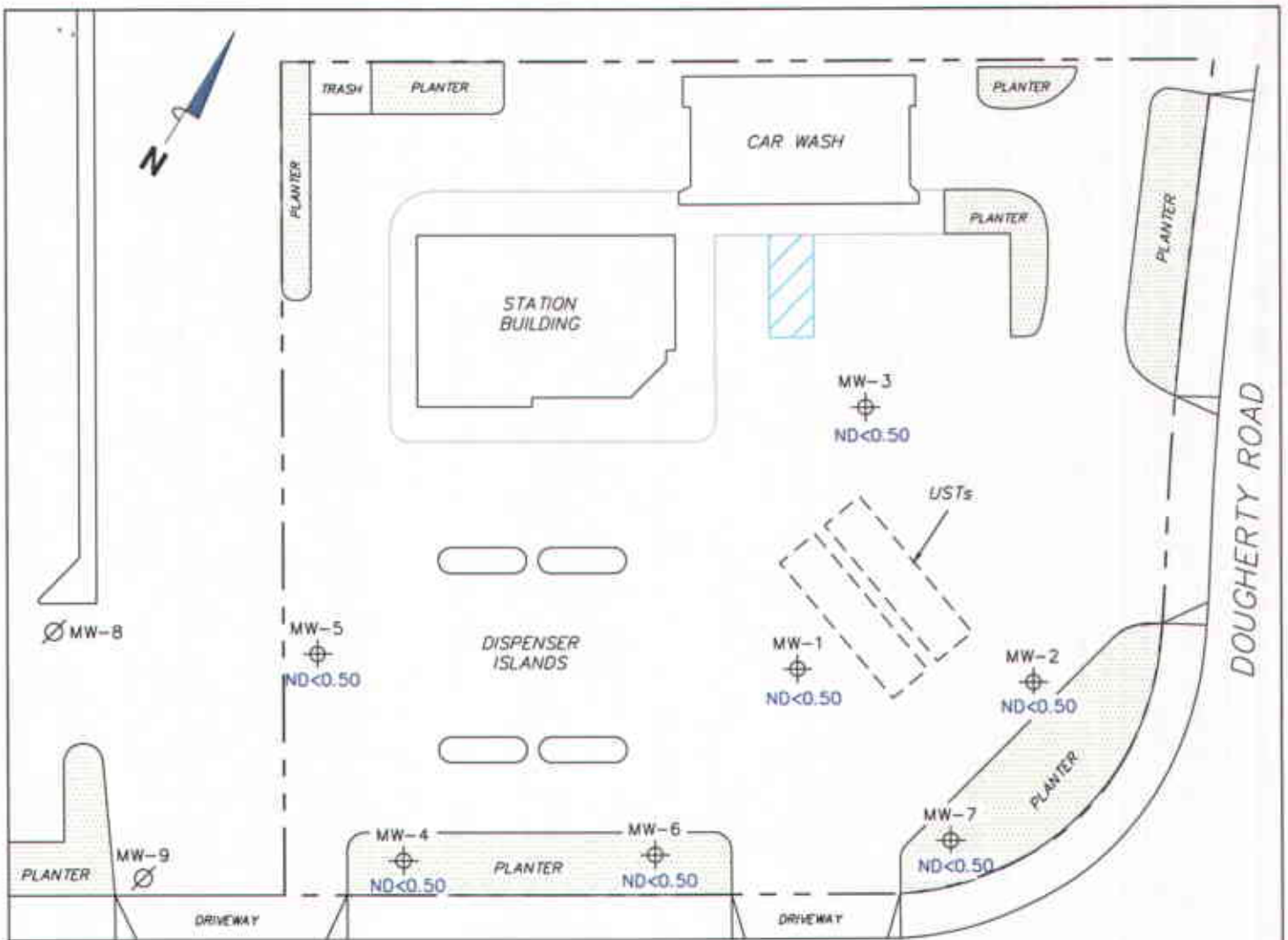
**DISSOLVED-PHASE TPPH  
 CONCENTRATION MAP  
 March 22, 2005**

76 Station 6419  
 6401 Dublin Boulevard  
 Dublin, California



**FIGURE 3**

MS=1:1 6419-003



DUBLIN BOULEVARD

**NOTES:**

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

MW-9 Abandoned Monitoring Well

**DISSOLVED-PHASE BENZENE CONCENTRATION MAP**  
 March 22, 2005

76 Station 6419  
 6401 Dublin Boulevard  
 Dublin, California



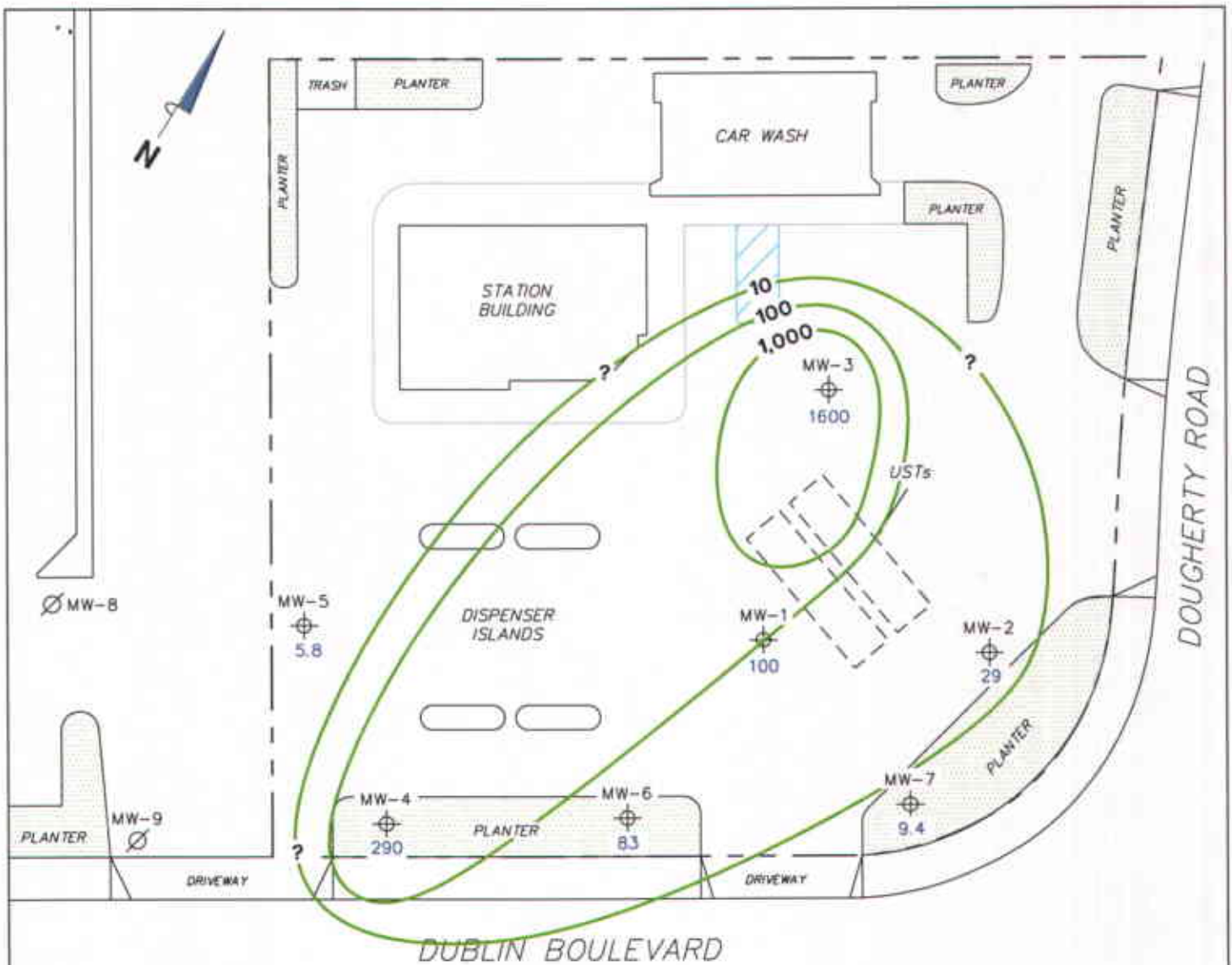
SCALE (FEET)



**FIGURE 4**

P25m1:1 6419-003








**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
-  Dissolved-Phase MTBE Contour (µg/l)

**DISSOLVED-PHASE MTBE CONCENTRATION MAP**  
March 22, 2005

76 Station 6419  
6401 Dublin Boulevard  
Dublin, California

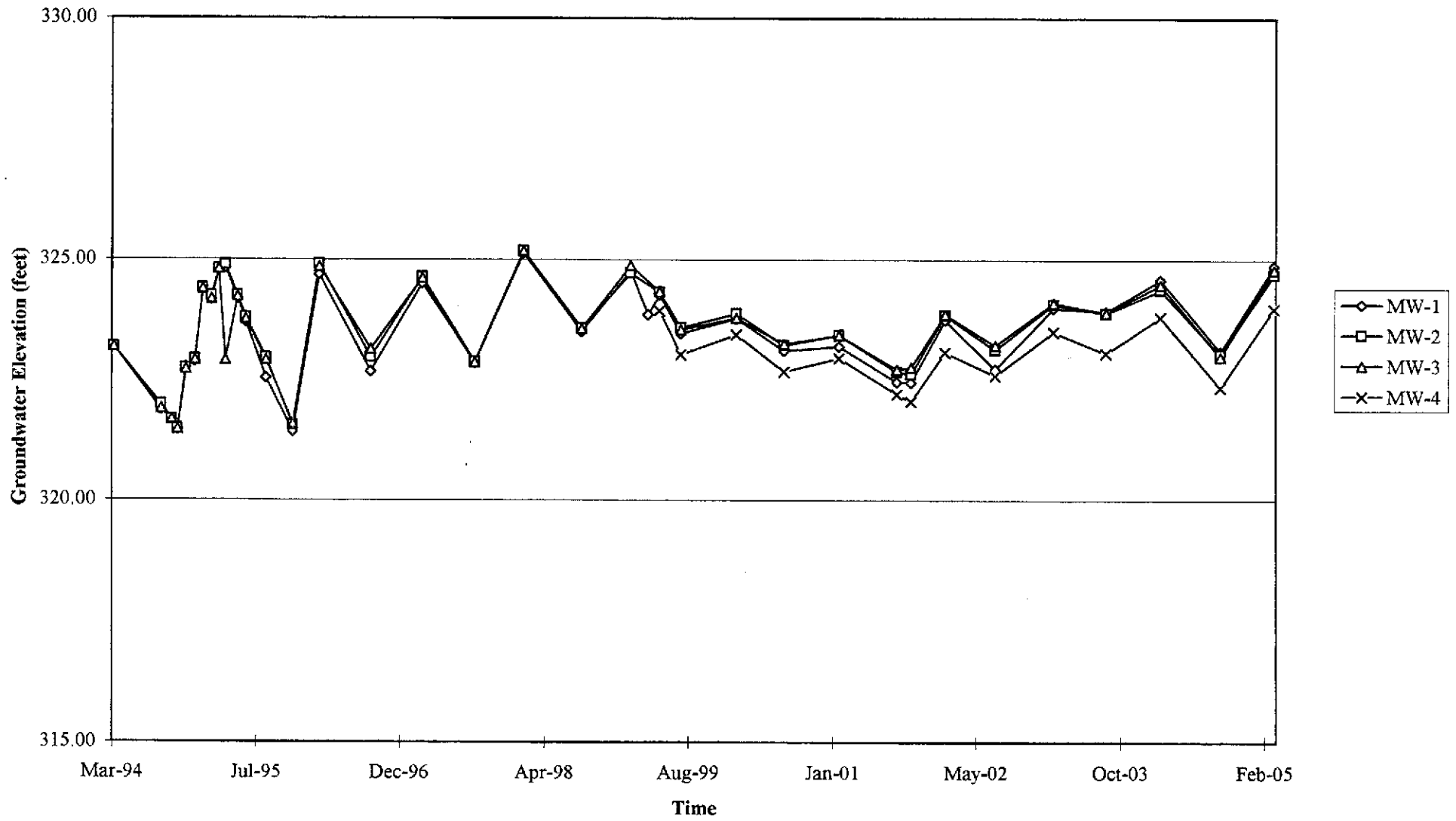
**FIGURE 5**



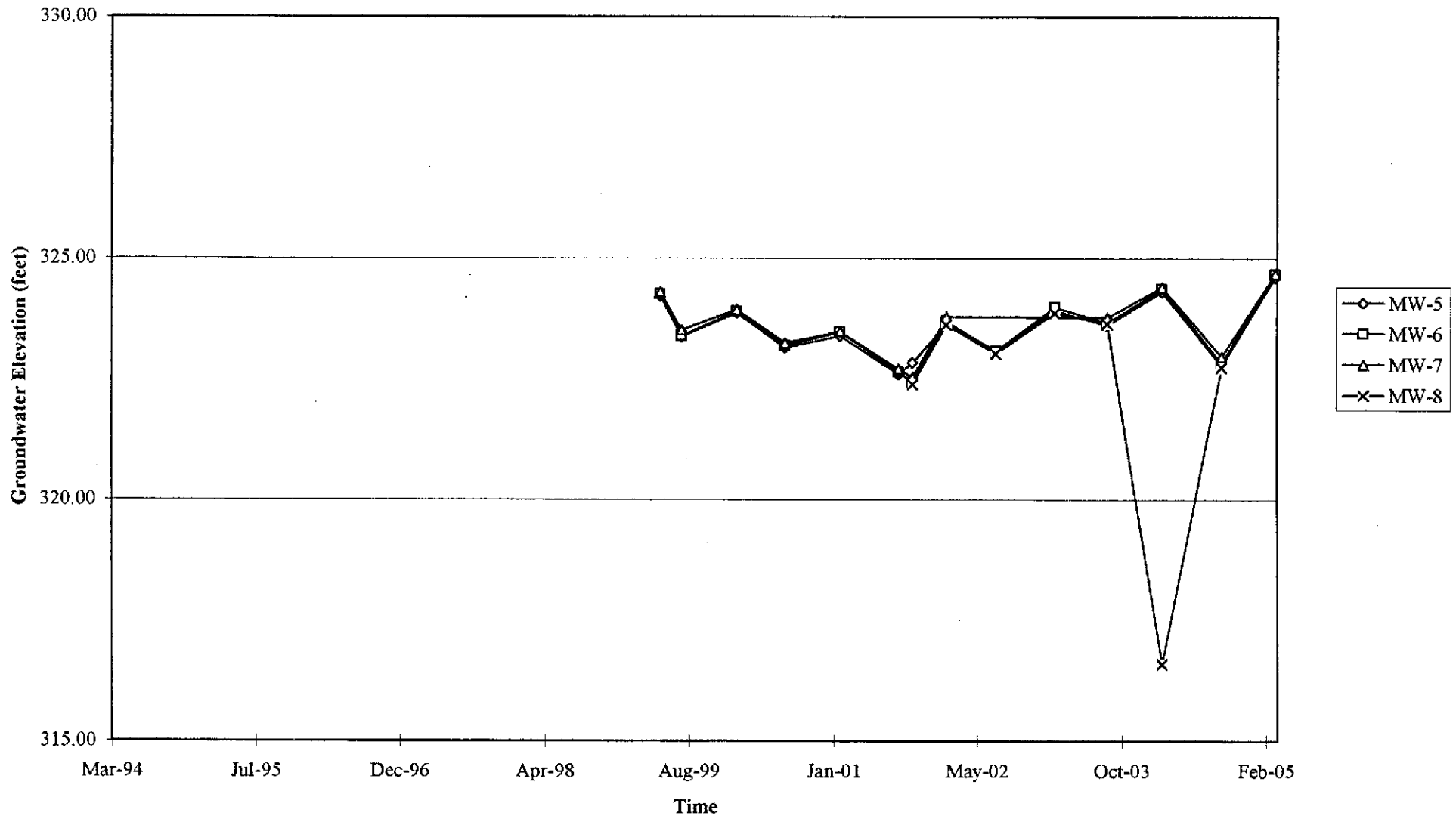
M3=1:1 6419-003

# GRAPHS

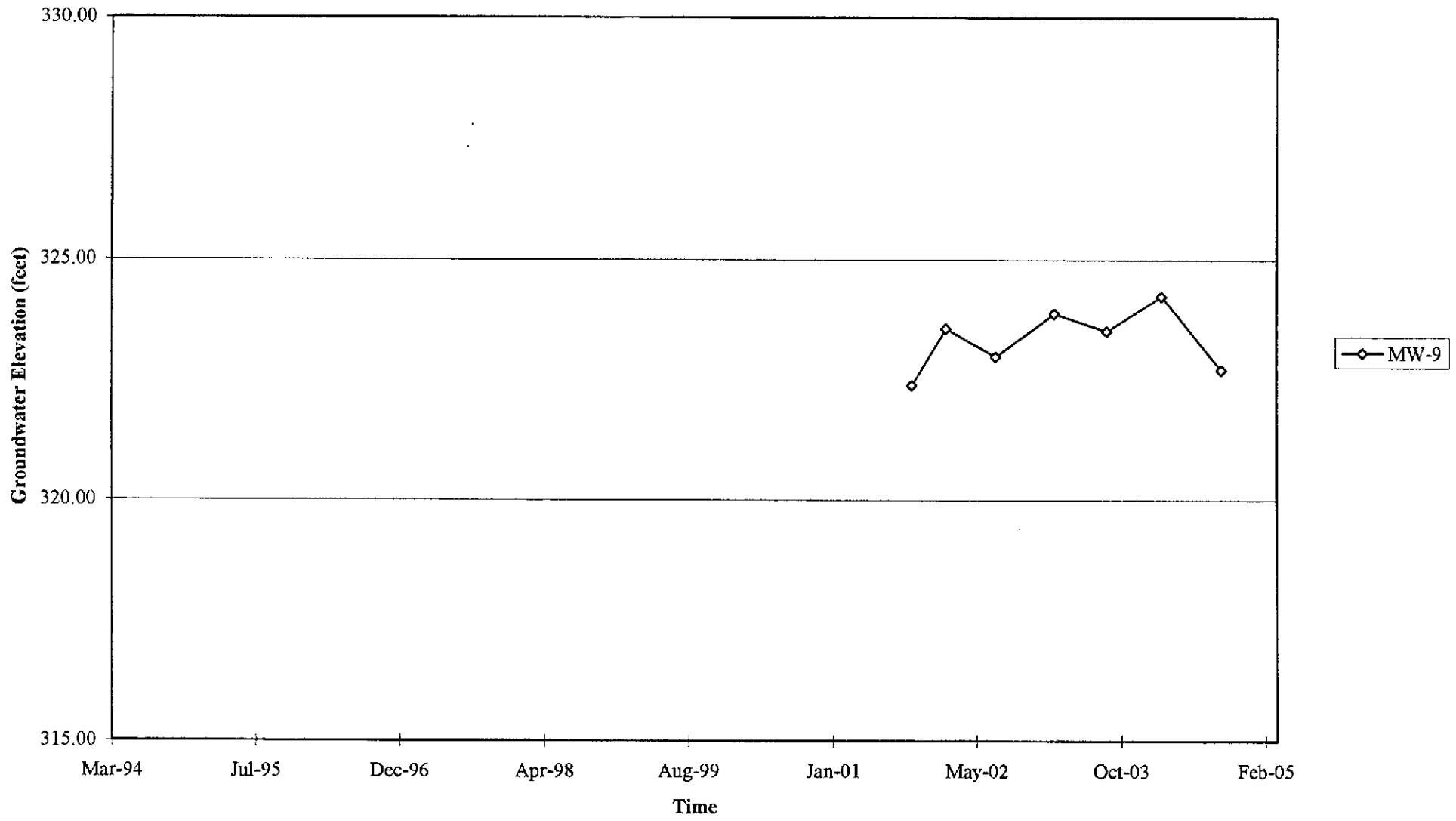
Groundwater Elevations vs. Time  
76 Station 6419



Groundwater Elevations vs. Time  
76 Station 6419

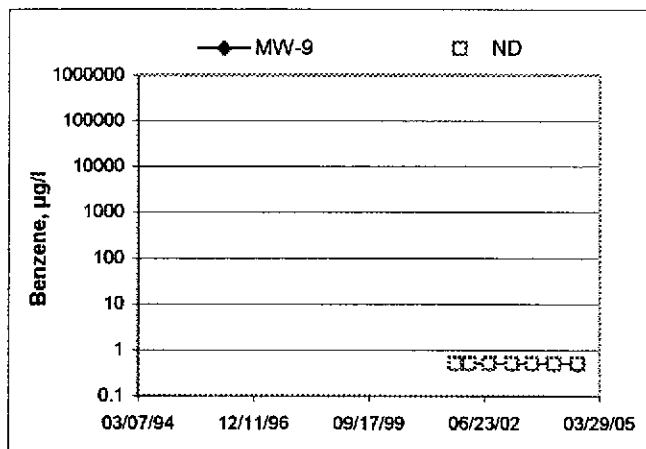


Groundwater Elevations vs. Time  
76 Station 6419





# 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 measurement 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, and the samplers 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 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 well 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 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: Anthony

Site: 6419

Project No.: 41050001

Date: 3-22-05

Well No.: MW-5

Purge Method: Diap

Depth to Water (feet): 5.58

Depth to Product (feet): 0

Total Depth (feet): 19.18

LPH & Water Recovered (gallons): 0

Water Column (feet): 13.6

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 0.30

1 Well Volume (gallons): 2

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F. <del>0</del> )	pH	Turbidity	D.O.
0634			2	2.15ms	17.8	7.14		
			4	1512	17.4	7.21		
	0638		6	2.29ms	17.9	7.03		
Static at Time Sampled			Total Gallons Purged		Time Sampled			
6.21			6		0646			
Comments:								

Well No.: MW-7

Purge Method: Diap

Depth to Water (feet): 5.73

Depth to Product (feet): 0

Total Depth (feet): 19.15

LPH & Water Recovered (gallons): 0

Water Column (feet): 13.42

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 0.41

1 Well Volume (gallons): 2

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F. <del>0</del> )	pH	Turbidity	D.O.
0655			2	2.43ms	16.7	7.26		
			4	2.42ms	16.5	7.19		
	0658		6	2.40ms	16.7	7.18		
Static at Time Sampled			Total Gallons Purged		Time Sampled			
6.09			6		0704			
Comments:								

GROUNDWATER SAMPLING FIELD NOTES

Technician: Anthony

Site: 6419

Project No.: 411050001

Date: 3-22-05

Well No.: Mw-1  
 Depth to Water (feet): 5.29  
 Total Depth (feet): 9.25  
 Water Column (feet): 3.96  
 80% Recharge Depth (feet): 6.08

Purge Method: HLB  
 Depth to Product (feet): 0  
 LPH & Water Recovered (gallons): 6  
 Casing Diameter (Inches): 2"  
 1 Well Volume (gallons): 0.67

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F)	pH	Turbidity	D.O.
0714			.67	916	15.9	7.24		
			1.34	933	16.0	7.13		
	0718		2.01	954	16.1	7.16		
Static at Time Sampled		Total Gallons Purged			Time Sampled			
6.04		2			0741			
Comments:								

Well No.: Mw-2  
 Depth to Water (feet): 5.55  
 Total Depth (feet): 17.58  
 Water Column (feet): 12.03  
 80% Recharge Depth (feet): 9.96

Purge Method: Dia  
 Depth to Product (feet): 0  
 LPH & Water Recovered (gallons): 6  
 Casing Diameter (Inches): 2"  
 1 Well Volume (gallons): 2

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F)	pH	Turbidity	D.O.
0726			2	2.79ms	16.6	7.10		
			4	2.85ms	16.7	6.96		
	0729		6	3.11ms	17.0	6.97		
Static at Time Sampled		Total Gallons Purged			Time Sampled			
6-16		6			0734			
Comments:								

GROUNDWATER SAMPLING FIELD NOTES

Technician: Anthony

Site: 6419

Project No.: 41050001

Date: 3-22-05

Well No.: MW-6

Purge Method: AH ~~Dr~~ HB

Depth to Water (feet): 5.81

Depth to Product (feet): 6

Total Depth (feet): 19.02

LPH & Water Recovered (gallons): 6

Water Column (feet): 13.21

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 8.45

1 Well Volume (gallons): 2

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F. @)	pH	Turbidity	D.O.
0754			2	3.00ms	16.0	6.96		
			4	3.02ms	16.5	6.90		
	0802		6	2.98ms	17.7	6.90		
Static at Time Sampled		Total Gallons Purged			Time Sampled			
7.19		6			0806			
Comments:								

Well No.: MW-4

Purge Method: AH ~~Dr~~ HB

Depth to Water (feet): 6.37

Depth to Product (feet): 6

Total Depth (feet): 19.01

LPH & Water Recovered (gallons): 6

Water Column (feet): 12.64

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 8.90

1 Well Volume (gallons): 2

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F. @)	pH	Turbidity	D.O.
0820			2	2.77ms	17.3	7.13		
			4	2.64ms	17.4	7.09		
	0827		6	2.57ms	18.0	7.09		
Static at Time Sampled		Total Gallons Purged			Time Sampled			
6.36		6			0831			
Comments:								

GROUNDWATER SAMPLING FIELD NOTES

Technician: Anthony

Site: 6419

Project No.: 41050001

Date: 3-22-05

Well No.: MW-3  
 Depth to Water (feet): 5.79  
 Total Depth (feet): 18.41  
 Water Column (feet): 12.62  
 80% Recharge Depth (feet): 8.31

Purge Method: APC HB  
 Depth to Product (feet): 0  
 LPH & Water Recovered (gallons): 0  
 Casing Diameter (Inches): 2"  
 1 Well Volume (gallons): 2

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F)	pH	Turbidity	D.O.
0842			2	2.16ms	17.0	7.10		
			4	2.19ms	17.1	7.08		
	0851		6	2.05ms	18.8	7.07		
Static at Time Sampled		Total Gallons Purged			Time Sampled			
7.59		6			0900			
Comments:								

Well No.: \_\_\_\_\_  
 Depth to Water (feet): \_\_\_\_\_  
 Total Depth (feet): \_\_\_\_\_  
 Water Column (feet): \_\_\_\_\_  
 80% Recharge Depth (feet): \_\_\_\_\_

Purge Method: \_\_\_\_\_  
 Depth to Product (feet): \_\_\_\_\_  
 LPH & Water Recovered (gallons): \_\_\_\_\_  
 Casing Diameter (Inches): \_\_\_\_\_  
 1 Well Volume (gallons): \_\_\_\_\_

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

**TRC Alton Geoscience- Irvine**

April 11, 2005

21 Technology Drive  
Irvine, CA 92718

Attn.: Anju Farfan

Project#: 41050001FA20

Project: Conoco Phillips #6419

Site: 6401 dublin blvd Dublin

Attached is our report for your samples received on 03/23/2005 18:19

This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 05/07/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: [dsharma@stl-inc.com](mailto:dsharma@stl-inc.com)

Sincerely,



Dimple Sharma  
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* [www.stl-inc.com](http://www.stl-inc.com) \* CA DHS ELAP# 2496

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips #6419

Received: 03/23/2005 18:19

Site: 6401 dublin blvd Dublin

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
MW-5	03/22/2005 06:46	Water	1
MW-7	03/22/2005 07:04	Water	2
MW-1	03/22/2005 07:41	Water	3
MW-2	03/22/2005 07:34	Water	4
MW-6	03/22/2005 08:06	Water	5
MW-4	03/22/2005 08:31	Water	6
MW-3	03/22/2005 09:00	Water	7



**Gas/BTEX Fuel Oxygenates by 8260B**

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21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips #6419

Received: 03/23/2005 18:19

Site: 6401 dublin blvd Dublin

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-5	Lab ID:	2005-03-0852 - 1
Sampled:	03/22/2005 06:46	Extracted:	4/3/2005 13:12
Matrix:	Water	QC Batch#:	2005/04/03-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	1.00	04/03/2005 13:12	Q6
Benzene	ND	0.50	ug/L	1.00	04/03/2005 13:12	
Toluene	ND	0.50	ug/L	1.00	04/03/2005 13:12	
Ethylbenzene	ND	0.50	ug/L	1.00	04/03/2005 13:12	
Total xylenes	ND	1.0	ug/L	1.00	04/03/2005 13:12	
Methyl tert-butyl ether (MTBE)	5.8	0.50	ug/L	1.00	04/03/2005 13:12	
Ethanol	ND	50	ug/L	1.00	04/03/2005 13:12	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	91.1	73-130	%	1.00	04/03/2005 13:12	
Toluene-d8	85.6	81-114	%	1.00	04/03/2005 13:12	

**Gas/BTEX Fuel Oxygenates by 8260B**

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Irvine, CA 92718

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Project: 41050001FA20

Conoco Phillips #6419

Received: 03/23/2005 18:19

Site: 6401 dublin blvd Dublin

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-7	Lab ID:	2005-03-0852 - 2
Sampled:	03/22/2005 07:04	Extracted:	4/3/2005 16:37
Matrix:	Water	QC Batch#:	2005/04/03-1A.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	1.00	04/03/2005 16:37	
Benzene	ND	0.50	ug/L	1.00	04/03/2005 16:37	
Toluene	ND	0.50	ug/L	1.00	04/03/2005 16:37	
Ethylbenzene	ND	0.50	ug/L	1.00	04/03/2005 16:37	
Total xylenes	ND	1.0	ug/L	1.00	04/03/2005 16:37	
Methyl tert-butyl ether (MTBE)	9.4	0.50	ug/L	1.00	04/03/2005 16:37	
Ethanol	ND	50	ug/L	1.00	04/03/2005 16:37	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	111.6	73-130	%	1.00	04/03/2005 16:37	
Toluene-d8	101.3	81-114	%	1.00	04/03/2005 16:37	

**Gas/BTEX Fuel Oxygenates by 8260B**

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21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips #6419

Received: 03/23/2005 18:19

Site: 6401 dublin blvd Dublin

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-1	Lab ID: 2005-03-0852 - 3
Sampled: 03/22/2005 07:41	Extracted: 4/3/2005 17:00
Matrix: Water	QC Batch#: 2005/04/03-1A.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	1.00	04/03/2005 17:00	Q6
Benzene	ND	0.50	ug/L	1.00	04/03/2005 17:00	
Toluene	ND	0.50	ug/L	1.00	04/03/2005 17:00	
Ethylbenzene	ND	0.50	ug/L	1.00	04/03/2005 17:00	
Total xylenes	ND	1.0	ug/L	1.00	04/03/2005 17:00	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	04/03/2005 17:00	
Methyl tert-butyl ether (MTBE)	100	0.50	ug/L	1.00	04/03/2005 17:00	
Di-isopropyl Ether (DIPE)	ND	0.5	ug/L	1.00	04/03/2005 17:00	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	1.00	04/03/2005 17:00	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	1.00	04/03/2005 17:00	
1,2-DCA	ND	0.5	ug/L	1.00	04/03/2005 17:00	
EDB	ND	0.50	ug/L	1.00	04/03/2005 17:00	
Ethanol	ND	50	ug/L	1.00	04/03/2005 17:00	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	111.5	73-130	%	1.00	04/03/2005 17:00	
Toluene-d8	100.8	81-114	%	1.00	04/03/2005 17:00	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

04/09/2005 14:43

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips #6419

Received: 03/23/2005 18:19

Site: 6401 dublin blvd Dublin

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-2	Lab ID:	2005-03-0852 - 4
Sampled:	03/22/2005 07:34	Extracted:	4/3/2005 17:22
Matrix:	Water	QC Batch#:	2005/04/03-1A.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	110	50	ug/L	1.00	04/03/2005 17:22	
Benzene	ND	0.50	ug/L	1.00	04/03/2005 17:22	
Toluene	1.3	0.50	ug/L	1.00	04/03/2005 17:22	
Ethylbenzene	0.68	0.50	ug/L	1.00	04/03/2005 17:22	
Total xylenes	2.4	1.0	ug/L	1.00	04/03/2005 17:22	
Methyl tert-butyl ether (MTBE)	29	0.50	ug/L	1.00	04/03/2005 17:22	
Ethanol	ND	50	ug/L	1.00	04/03/2005 17:22	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	111.8	73-130	%	1.00	04/03/2005 17:22	
Toluene-d8	103.8	81-114	%	1.00	04/03/2005 17:22	

**Gas/BTEX Fuel Oxygenates by 8260B**

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Irvine, CA 92718

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Project: 41050001FA20

Conoco Phillips #6419

Received: 03/23/2005 18:19

Site: 6401 dublin blvd Dublin

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-6	Lab ID: 2005-03-0852 - 5
Sampled: 03/22/2005 08:06	Extracted: 4/4/2005 23:59
Matrix: Water	QC Batch#: 2005/04/04-2A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	1.00	04/04/2005 23:59	Q6
Benzene	ND	0.50	ug/L	1.00	04/04/2005 23:59	
Toluene	ND	0.50	ug/L	1.00	04/04/2005 23:59	
Ethylbenzene	ND	0.50	ug/L	1.00	04/04/2005 23:59	
Total xylenes	ND	1.0	ug/L	1.00	04/04/2005 23:59	
Methyl tert-butyl ether (MTBE)	83	0.50	ug/L	1.00	04/04/2005 23:59	
Ethanol	ND	50	ug/L	1.00	04/04/2005 23:59	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	100.7	73-130	%	1.00	04/04/2005 23:59	
Toluene-d8	90.6	81-114	%	1.00	04/04/2005 23:59	

**Gas/BTEX Fuel Oxygenates by 8260B**

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21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips #6419

Received: 03/23/2005 18:19

Site: 6401 dublin blvd Dublin

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-4	Lab ID:	2005-03-0852 - 6
Sampled:	03/22/2005 08:31	Extracted:	4/3/2005 18:06 4/8/2005 18:09
Matrix:	Water	QC Batch#:	2005/04/03-1A.64 2005/04/08-1A.65
Analysis Flag: L2,H3 ( See Legend and Note Section )			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	200	ug/L	4.00	04/03/2005 18:06	Q6
Benzene	ND	0.50	ug/L	1.00	04/08/2005 18:09	
Toluene	ND	0.50	ug/L	1.00	04/08/2005 18:09	
Ethylbenzene	ND	0.50	ug/L	1.00	04/08/2005 18:09	
Total xylenes	ND	1.0	ug/L	1.00	04/08/2005 18:09	
Methyl tert-butyl ether (MTBE)	290	2.0	ug/L	4.00	04/03/2005 18:06	
Ethanol	ND	200	ug/L	4.00	04/03/2005 18:06	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	106.4	73-130	%	4.00	04/03/2005 18:06	
1,2-Dichloroethane-d4	113.0	73-130	%	1.00	04/08/2005 18:09	
Toluene-d8	99.5	81-114	%	4.00	04/03/2005 18:06	
Toluene-d8	102.4	81-114	%	1.00	04/08/2005 18:09	

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC Alton Geoscience- Irvine

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21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips #6419

Received: 03/23/2005 18:19

Site: 6401 dublin blvd Dublin

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-3	Lab ID:	2005-03-0852 - 7
Sampled:	03/22/2005 09:00	Extracted:	4/3/2005 18:28 4/8/2005 18:36
Matrix:	Water	QC Batch#:	2005/04/03-1A.64 2005/04/08-1A.65
Analysis Flag: H3,L2 ( See Legend and Note Section )			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1300	ug/L	25.00	04/03/2005 18:28	
Benzene	ND	0.50	ug/L	1.00	04/08/2005 18:36	
Toluene	ND	0.50	ug/L	1.00	04/08/2005 18:36	
Ethylbenzene	ND	0.50	ug/L	1.00	04/08/2005 18:36	
Total xylenes	ND	1.0	ug/L	1.00	04/08/2005 18:36	
Methyl tert-butyl ether (MTBE)	1600	13	ug/L	25.00	04/03/2005 18:28	
Ethanol	ND	1300	ug/L	25.00	04/03/2005 18:28	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	106.4	73-130	%	25.00	04/03/2005 18:28	
1,2-Dichloroethane-d4	111.5	73-130	%	1.00	04/08/2005 18:36	
Toluene-d8	98.8	81-114	%	25.00	04/03/2005 18:28	
Toluene-d8	105.7	81-114	%	1.00	04/08/2005 18:36	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

04/09/2005 14:43

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips #6419

Received: 03/23/2005 18:19

Site: 6401 dublin blvd Dublin

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2005/04/03-1A.64-015

Water

Test(s): 8260B

QC Batch # 2005/04/03-1A.64

Date Extracted: 04/03/2005 10:15

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	04/03/2005 10:15	
Benzene	ND	0.5	ug/L	04/03/2005 10:15	
Toluene	ND	0.5	ug/L	04/03/2005 10:15	
Ethylbenzene	ND	0.5	ug/L	04/03/2005 10:15	
Total xylenes	ND	1.0	ug/L	04/03/2005 10:15	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	04/03/2005 10:15	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	04/03/2005 10:15	
Di-isopropyl Ether (DIPE)	ND	0.5	ug/L	04/03/2005 10:15	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	04/03/2005 10:15	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	04/03/2005 10:15	
1,2-DCA	ND	0.5	ug/L	04/03/2005 10:15	
EDB	ND	0.5	ug/L	04/03/2005 10:15	
Ethanol	ND	50	ug/L	04/03/2005 10:15	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	104.6	73-130	%	04/03/2005 10:15	
Toluene-d8	97.6	81-114	%	04/03/2005 10:15	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

04/09/2005 14:43

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**Gas/BTEX Fuel Oxygenates by 8260B**

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92713

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips #6419

Received: 03/23/2005 18:19

Site: 6401 dublin blvd Dublin

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2005/04/03-1A.69-024

Water

Test(s): 8260B

QC Batch # 2005/04/03-1A.69

Date Extracted: 04/03/2005 11:24

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	04/03/2005 11:24	
Benzene	ND	0.5	ug/L	04/03/2005 11:24	
Toluene	ND	0.5	ug/L	04/03/2005 11:24	
Ethylbenzene	ND	0.5	ug/L	04/03/2005 11:24	
Total xylenes	ND	1.0	ug/L	04/03/2005 11:24	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	04/03/2005 11:24	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	04/03/2005 11:24	
Di-isopropyl Ether (DIPE)	ND	0.5	ug/L	04/03/2005 11:24	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	04/03/2005 11:24	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	04/03/2005 11:24	
1,2-DCA	ND	0.5	ug/L	04/03/2005 11:24	
EDB	ND	0.5	ug/L	04/03/2005 11:24	
Ethanol	ND	50	ug/L	04/03/2005 11:24	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	91.2	73-130	%	04/03/2005 11:24	
Toluene-d8	96.0	81-114	%	04/03/2005 11:24	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

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04/09/2005 14:43

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips #6419

Received: 03/23/2005 18:19

Site: 6401 dublin blvd Dublin

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2005/04/04-2A.69-036

Water

Test(s): 8260B

QC Batch # 2005/04/04-2A.69

Date Extracted: 04/04/2005 19:36

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	04/04/2005 19:36	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	04/04/2005 19:36	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	04/04/2005 19:36	
Di-isopropyl Ether (DIPE)	ND	0.5	ug/L	04/04/2005 19:36	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	04/04/2005 19:36	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	04/04/2005 19:36	
1,2-DCA	ND	0.5	ug/L	04/04/2005 19:36	
EDB	ND	0.5	ug/L	04/04/2005 19:36	
Benzene	ND	0.5	ug/L	04/04/2005 19:36	
Toluene	ND	0.5	ug/L	04/04/2005 19:36	
Ethylbenzene	ND	0.5	ug/L	04/04/2005 19:36	
Total xylenes	ND	1.0	ug/L	04/04/2005 19:36	
Ethanol	ND	50	ug/L	04/04/2005 19:36	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	97.2	73-130	%	04/04/2005 19:36	
Toluene-d8	92.6	81-114	%	04/04/2005 19:36	

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips #6419

Received: 03/23/2005 18:19

Site: 6401 dublin blvd Dublin

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2005/04/08-1A.65-052

Water

Test(s): 8260B

QC Batch # 2005/04/08-1A.65

Date Extracted: 04/08/2005 09:52

Compound	Conc.	RL	Unit	Analyzed	Flag
Benzene	ND	0.5	ug/L	04/08/2005 09:52	
Toluene	ND	0.5	ug/L	04/08/2005 09:52	
Ethylbenzene	ND	0.5	ug/L	04/08/2005 09:52	
Total xylenes	ND	1.0	ug/L	04/08/2005 09:52	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	109.4	73-130	%	04/08/2005 09:52	
Toluene-d8	104.8	81-114	%	04/08/2005 09:52	

Severn Trent Laboratories, Inc.

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**Gas/BTEX Fuel Oxygenates by 8260B**

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips #6419

Received: 03/23/2005 18:19

Site: 6401 dublin blvd Dublin

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2005/04/03-1A.64

LCS 2005/04/03-1A.64-052

Extracted: 04/03/2005

Analyzed: 04/03/2005 09:52

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	23.3		25	93.2			65-165	20		
Benzene	25.0		25	100.0			69-129	20		
Toluene	26.5		25	106.0			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	497		500	99.4			73-130			
Toluene-d8	507		500	101.4			81-114			

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC Alton Geoscience- Irvine

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21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips #6419

Received: 03/23/2005 18:19

Site: 6401 dublin blvd Dublin

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2005/04/03-1A.69

LCS 2005/04/03-1A.69-026

Extracted: 04/03/2005

Analyzed: 04/03/2005 10:26

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	25.9		25	103.6			65-165	20		
Benzene	24.0		25	96.0			69-129	20		
Toluene	23.6		25	94.4			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	402		500	80.4			73-130			
Toluene-d8	457		500	91.4			81-114			

Severn Trent Laboratories, Inc.

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**Gas/BTEX Fuel Oxygenates by 8260B**

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive  
Irvine, CA 92718  
Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20  
Conoco Phillips #6419

Received: 03/23/2005 18:19

Site: 6401 dublin blvd Dublin

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2005/04/04-2A.69

LCS 2005/04/04-2A.69-017

Extracted: 04/04/2005

Analyzed: 04/04/2005 19:17

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	26.4		25	105.6			65-165	20		
Benzene	24.2		25	96.8			69-129	20		
Toluene	24.5		25	98.0			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	463		500	92.6			73-130			
Toluene-d8	461		500	92.2			81-114			

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**Gas/BTEX Fuel Oxygenates by 8260B**

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips #6419

Received: 03/23/2005 18:19

Site: 6401 dublin blvd Dublin

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2005/04/08-1A.65

LCS 2005/04/08-1A.65-025

Extracted: 04/08/2005

Analyzed: 04/08/2005 09:25

LCSD 2005/04/08-1A.65-043

Extracted: 04/08/2005

Analyzed: 04/08/2005 17:43

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	20.9	22.7	25	83.6	90.8	8.3	69-129	20		
Toluene	23.0	26.0	25	92.0	104.0	12.2	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	402	448	500	80.4	89.6		73-130			
Toluene-d8	492	539	500	98.4	107.8		81-114			

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**Gas/BTEX Fuel Oxygenates by 8260B**

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips #6419

Received: 03/23/2005 18:19

Site: 6401 dublin blvd Dublin

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Water**

**QC Batch # 2005/04/03-1A.64**

MS/MSD

Lab ID: 2005-03-0783 - 001

MS: 2005/04/03-1A.64-059

Extracted: 04/03/2005

Analyzed: 04/03/2005 10:59

Dilution: 1.00

MSD: 2005/04/03-1A.64-021

Extracted: 04/03/2005

Analyzed: 04/03/2005 11:21

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	24.5	21.3	ND	25	98.0	85.2	14.0	65-165	20		
Benzene	26.2	24.4	ND	25	104.8	97.6	7.1	69-129	20		
Toluene	27.0	24.7	ND	25	108.0	98.8	8.9	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	455	460		500	91.0	92.0		73-130			
Toluene-d8	469	481		500	93.8	96.2		81-114			

Severn Trent Laboratories, Inc.

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04/09/2005 14:43

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**Gas/BTEX Fuel Oxygenates by 8260B**

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive  
Irvine, CA 92718  
Phone: (949) 341-7440 Fax: (949) 753-0111  
Project: 41050001FA20  
Conoco Phillips #6419

Received: 03/23/2005 18:19

Site: 6401 dublin blvd Dublin

Batch QC Report			
Prep(s):	5030B	Test(s):	8260B
<b>Matrix Spike ( MS / MSD )</b>	<b>Water</b>	<b>QC Batch # 2005/04/03-1A.69</b>	
MS/MSD		Lab ID:	2005-03-0677 - 007
MS: 2005/04/03-1A.69-014	Extracted: 04/03/2005	Analyzed:	04/03/2005 12:14
		Dilution:	1.00
MSD: 2005/04/03-1A.69-034	Extracted: 04/03/2005	Analyzed:	04/03/2005 12:34
		Dilution:	1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	28.4	26.8	ND	25	113.6	107.2	5.8	65-165	20		
Benzene	25.3	23.5	ND	25	101.2	94.0	7.4	69-129	20		
Toluene	24.7	23.0	ND	25	98.8	92.0	7.1	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	388	415		500	77.6	83.0		73-130			
Toluene-d8	443	449		500	88.6	89.8		81-114			

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips #6419

Received: 03/23/2005 18:19

Site: 6401 dublin blvd Dublin

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Water**

**QC Batch # 2005/04/04-2A.69**

**MS/MSD:**

Lab ID: 2005-03-0881 - 001

MS: 2005/04/04-2A.69-025

Extracted: 04/04/2005

Analyzed: 04/04/2005 21:25

Dilution: 1.00

MSD: 2005/04/04-2A.69-044

Extracted: 04/04/2005

Analyzed: 04/04/2005 21:44

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	23.3	26.4	ND	25	93.2	105.6	12.5	65-165	20		
Benzene	21.5	25.2	ND	25	86.0	100.8	15.8	69-129	20		
Toluene	20.9	25.1	ND	25	83.6	100.4	18.3	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	465	469		500	93.0	93.8		73-130			
Toluene-d8	440	450		500	88.0	90.0		81-114			

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

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04/09/2005 14:43

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive

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Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20

Conoco Phillips #6419

Received: 03/23/2005 18:19

Site: 6401 dublin blvd Dublin

---

**Legend and Notes**

---

**Sample Comment**

Lab ID: 2005-03-0852 -1

Siloxane peaks were found in the sample, which are not believed to be gasoline related. If they were to be quantified as gasoline, the concentration would be 57 ug/L

Lab ID: 2005-03-0852 -3

Siloxane peaks were found in the sample which are not believed to be gasoline related. If they be quantitated as gasoline, the concentration would be 51ug/L

Lab ID: 2005-03-0852 -5

Siloxane peaks were found in the sample which are not believed to be gasoline related. If they be quantitated as gasoline, the concentration would be 63 ug/L

Lab ID: 2005-03-0852 -6

Siloxane peaks were found in the sample which are not believed to be gasoline related. If they were to be quantitated as gasoline, the concentration would be 240 ug/L

**Analysis Flag**

H3

Initial analysis within holding time but required dilution.

L2

Reporting limits were raised due to high level of analyte present in the sample.

**Result Flag**

Q6

The concentration reported reflect(s) individual or discrete unidentified peaks not matching a typical fuel pattern.

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

04/09/2005 14:43

3TL-San Francisco

1220 Quarry Lane

Pleasanton, CA 94586

(825) 404-1010 (825) 404-1096 fax

# ConocoPhillips Chain Of Custody Record

103758

ConocoPhillips Site Manager:

INVOICE REMITTANCE ADDRESS:

CONOCOPHILLIPS  
Attn: Department  
3611 S. Bascom Avenue  
Santa Clara, CA 95051

ConocoPhillips Work Order Number

2527TR4501

DATE: 3-22-05

ConocoPhillips Cust Object

PAGE: 1 of 1

2005-03-0852

<b>CLIENT COMPANY:</b> TRC 21 Technology Drive, Irvine CA 92618 PROJECT CONTACT INFORMATION (Per Requestor): <b>Anju Farfan</b> TELEPHONE: 949-341-7410 FAX: 949-783-0111 EMAIL: afarfan@trcsolutions.com		<b>CONOCOPHILLIPS SITE ADDRESS:</b> 6419 6401 dublin blvd Dublin CONTACTABLE TO (Per Requestor): Peter Thompson, TRC pthompson@trcsolutions.com (408) 341-7400		<b>GLOBAL ID:</b> T0600101493 CONOCOPHILLIPS SITE ADDRESS: Thomas H. Kasal	
<b>NAME (Last, First, Middle Initial):</b> Anthony		<b>CONOCOPHILLIPS PEG-EXCIT NUMBER:</b> 4055000452		<b>REQUESTED ANALYSES:</b>	
<b>PREPARATION TIME (CALENDAR DAYS):</b> <input type="checkbox"/> 1 DAY <input type="checkbox"/> 2 DAY <input type="checkbox"/> 7-10 BUSINESS <input type="checkbox"/> 14 BUSINESS <input type="checkbox"/> 21 BUSINESS <input type="checkbox"/> LESS THAN 24 HOURS		<b>SPECIAL INSTRUCTIONS OR NOTES:</b> (OPTIONAL IF BGC IS NEEDED) <input type="checkbox"/> Run 8 OXYS by 8260 on 8260 MTBE HT on MW-1 ONLY		<b>FIELD NOTES:</b> Contain Preservative as PID Readings or Laboratory Notes	
<b>Field Points must be rechecked if different from Sample ID:</b>		<b>2010m - TP40 EXHAUSTIVE</b> <b>RESIDUE - TP40 TECHNIQUE</b> <b>WATER - TP40 / WATER'S Organobor</b> <b>SEMI - TP40 / WATER'S R Organobor</b> - methanol (optional) <b>RESIDUE - TP40 Sample Vials (Seal not include only number)</b> <b>8270C - General Analysis</b> <b>8270M / 8270E - TP40 / EXCHANGE</b> <b>Lowd - TP40 DISTILS C/D/LP</b>		X TP40 by 8260 X SEMI/MTBE by 8260 X Ethanol by 8260	
<b>LAB USE ONLY</b>	<b>Sample Identification/Field Point Name:</b>	<b>SAMPLES:</b>	<b>DATE:</b>	<b>TIME:</b>	<b>NO. OF VIALS:</b>
	MW-5	3	2/20/05	6:45	3
	MW-7			0704	
	MW-1			0710	
	MW-2			0724	
	MW-6			0806	
	MW-4			0831	
	MW-3	✓		0900	✓
<b>Signature:</b> [Signature]		<b>Signature:</b> [Signature]		<b>DATE:</b> 3-22-05	<b>TIME:</b> 1100
<b>Signature:</b> [Signature]		<b>Signature:</b> [Signature]		<b>DATE:</b> 3/22/05	<b>TIME:</b> 1101
<b>Signature:</b> [Signature]		<b>Signature:</b> [Signature]		<b>DATE:</b> 3/22/05	<b>TIME:</b> 1819

## **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 Onyx Transportation, Inc., to the ConocoPhillips Refinery at Rodeo, California. Disposal at the Rodeo facility was authorized by ConocoPhillips in accordance with "ESD Standard Operating Procedures - Water Quality and Compliance", as revised on February 7, 2003. Documentation of compliance with ConocoPhillips requirements is provided by an ESD Form R-149, which is on file at TRC's Concord Office. Purge water containing a significant amount of liquid-phase hydrocarbons was accumulated separately in drums for transportation and disposal by Filter Recycling, Inc.

### **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.