2564

Delta
Environmental Consultants, Inc.

Solving environment-related business problems worldwide

175 Bernal Road • Suite 200
San Jose, California 95119 USA

800.477.7411
Fax 408.225.8506

www.deltaenv.com

Letter of Transmittal

To: Alameda County Water District
43885 Grimmer Road
Fremont, CA 94538

Date: 2/22/2006

Job No: C1Q-5487-011

Attn: Ms. Eileen Chen

We are sending the following items:

Date	Copies	Description
10-Feb-06	1	**Quarterly Summary Report - Fourth Quarter 2005**
		76 Service Station #5487
		28250 Hesperian Blvd.
		Hayward, California

These are transmitted:

☐ For your Information ☐ For action specified below ☐ For review and comment ☒ For your use ☒ As requested

Remarks

Copies to: Eileen Chen

By: Eric Hetrick

Title: Senior Project Manager

ConocoPhillips

76 Broadway
Sacramento, California 95818

February 10, 2006

Ms. Eileen Chen
Alameda County Water District
43885 South Grimmer Boulevard
Fremont, California 94538

Re: **Report Transmittal**
Quarterly Report
Fourth Quarter – 2005
76 Service Station #5487
28250 Hesperian Boulevard
Hayward, CA

Dear Ms. Chen:

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 contact

Shelby S. Lathrop (Contractor)
ConocoPhillips
Risk Management & Remediation
76 Broadway
Sacramento, CA 95818
Phone: 916-558-7609
Fax: 916-558-7639

Sincerely,

Thomas K. Kosel

Thomas Kosel
Risk Management & Remediation

Attachment

Delta
Environmental
Consultants, Inc.

Solving environment-related business problems worldwide

www.deltaenv.com

175 Bernal Road • Suite 200
San Jose, California 95119 USA

800.477.7411
Fax 408.225.8506

February 10, 2006

Ms. Eileen Chen
Alameda County Water District
43885 South Grimmer Boulevard
Fremont, California 94538

RE: Quarterly Summary Report - Fourth Quarter 2005
Delta Project Number: C1Q-5487-011

Dear Ms. Chen:

On behalf of ConocoPhillips (COP), Delta Environmental Consultants, Inc. (Delta) is forwarding the quarterly summary report for the following location:

Service Station	Location
76 Service Station No 5487	28250 Hesperian Boulevard Hayward, California

Sincerely,
Delta Environmental Consultants, Inc.

for

Eric G. Hetrick
Project Manager

R. Lee Dooley
CHG 183

PROFESSIONAL GEOLOGIST
R. LEE DOOLEY
NO. 0183
CERTIFIED
HYDROGEOLOGIST
STATE OF CALIFORNIA

cc: Shelby Lathrop, ConocoPhillips

QUARTERLY SUMMARY REPORT
Fourth Quarter 2005
76 Branded Facility No. 5487
28250 Hesperian Boulevard
Hayward, California

PREVIOUS ASSESSMENT

The Site is located at 28250 Hesperian Boulevard in Hayward, California. Two gasoline underground storage tanks (USTs), one waste oil UST and their associated piping were removed from the site in January of 1989 during the UST replacement activities. Seven soil samples from the sidewalls of the gasoline UST excavation and one soil sample from the base of the waste oil UST were collected for laboratory analysis. Following collection of the soil samples, approximately 2,000 gallons of groundwater was extracted from the gasoline UST excavation and properly disposed.

Laboratory analytical results from the soil samples collected from the gasoline UST excavation sidewalls revealed the presence of total petroleum hydrocarbons as gasoline (TPH-g) at concentrations ranging from below the laboratory detection limits to 130 milligrams per kilogram (mg/kg). Additionally, analysis of the soil sample collected from the base of the former waste oil UST indicated the presence of 800 mg/kg TPH as diesel (TPH-d), 60 mg/kg of TPH-g, and 3.6 mg/kg of benzene.

Based on the results of the soil samples collected following the UST removal activities, the waste oil UST excavation was extended laterally on all sides and extended to approximately 21 feet by 29 feet by ten feet deep on February 1, 1989. During the over-excavation activities, four sidewall samples were collected from the excavation for confirmation laboratory analysis. Laboratory analysis of the soil samples collected from the sidewalls of the waste oil UST excavation indicated the presence of concentrations of TPH-d ranging from below the laboratory detection limit to 180 mg/kg and TPH-g ranging from below the laboratory detection limit to 110 mg/kg.

On February 14, 1989, approximately 17,500 gallons of groundwater was extracted from the gasoline UST excavation and disposed of in preparation for the installation of new USTs. A groundwater sample collected during the extraction event contained 110 micrograms per liter (ug/l) of TPH-d and 2.2 ug/l of benzene.

The northeast sidewall of the waste oil UST excavation was extended an additional eight feet laterally on February 17, 1989 and February 24, 1989. Confirmation soil sampling from the final completed excavation did not reveal the presence of petroleum hydrocarbons in excess of the laboratory detection limits. However, a groundwater sample collected from the base of the excavation revealed the presence of 1,300 ug/l TPH-d, 500 ug/l TPH-g, and 52 ug/l benzene. Based on these results, approximately 4,500 gallons of groundwater was extracted from the waste oil UST excavation and disposed.

Based on the laboratory results of the soil and groundwater samples collected from the UST excavation areas, five groundwater monitoring wells (MW-1 through MW-5) were advanced at the site. Laboratory analytical results of soil samples collected during the well installations of monitor wells MW-1 through MW-4 did not indicate the presence of TPH-g or benzene, toluene, ethyl benzene and xylenes (BTEX) in excess of the laboratory detection limits with the exception of 1.4 mg/kg TPH-g in a soil sample collected from MW-4 at a depth of nine feet below grade level. Further, laboratory analysis from a soil sample collected during the installation of monitor well MW-5 showed the presence of TPH-g at 900 mg/kg and benzene at 3.1 mg/kg.

Groundwater analysis of collected groundwater samples from monitor wells MW-1 through MW-5 did not indicate the presence of petroleum hydrocarbons in excess of the laboratory detection limits with the exception of groundwater samples collected from MW-1 and MW-4 which indicate the presence of benzene at concentrations of 2.1 ug/l and 0.33 ug/l, respectively.

Due to fluctuating concentrations of petroleum hydrocarbons in groundwater samples collected from monitor well MW-5, two additional wells (MW-6 and MW-7) were installed at the site in June 1992. Laboratory analytical results of the soil sample collected from monitor MW-7 did not indicate the presence of hydrocarbon concentrations in excess of the laboratory detection limits. However, the soil sample collected during the installation of monitor well MW-6 contained 410 mg/kg TPH-g and 115 mg/kg total BTEX. Analysis of groundwater samples collected from these two wells was similar to the soil analytical results. Analytical results revealed that sample collected from monitor well MW-7 were below the laboratory detection limit, however, sample collected from monitor well MW-6 contained TPH-g concentrations ranging from 300 ug/l to 540 ug/l and benzene concentrations ranging from 12 ug/l to 66 ug/l.

Currently, groundwater monitoring wells MW-5, MW-6 and MW-7 are sampled annually during the first quarter of each year. The highest concentrations of benzene and MTBE are consistently detected in wells adjacent to the UST cavity and pump islands (wells MW-4, MW-5, and MW-6) in the southeastern portion of the site.

MONITORING AND SAMPLING

Groundwater monitoring is performed annually during the first quarter of each year. As this site is monitored and sampled on an annual basis, the following is a re-statement from the First Quarter, 2005 Quarterly Summary Report dated April 2, 2005.

Currently, groundwater samples are collected from three site wells (MW-5, MW-6, MW-7) on an annual basis during the first quarter of each year. The sampled wells are submitted to Severn Trent Laboratories for analysis of total purgeable petroleum hydrocarbons (TPPH), BTEX and MTBE. Additionally, well MW-6 is monitored for ethanol.

During the first quarter 2005, groundwater samples and depth to water measurements were collected from the referenced wells on March 2, 2005. During the event, depth to groundwater measurements ranged from 4.01 feet (MW-7) to 6.30 feet (MW-3).

Laboratory analytical results of the groundwater samples collected from wells MW-5, MW-6 and MW-7 indicated the presence of MTBE at concentrations of 350 µg/l, 390 µg/l and 120 µg/l, respectively. Additionally, benzene concentrations were detected in wells MW-5 and MW-6 at respective concentrations of 8.2 µg/l and 3.0 µg/l. Finally, TPH-g concentrations were detected in monitoring well MW-5 at a concentration of 110 µg/l. No additional analytes were detected in excess of the laboratory detection limits.

REMEDIATION STATUS

Approximately 650 cubic yards of soil were removed from the gasoline and waste oil UST areas during the lateral extension of each excavation in January 1989. Additionally, an approximate total of 24,000 gallons of hydrocarbon-impacted groundwater was extracted from the gasoline and waste oil UST excavations in January and February 1989.

CHARACTERIZATION STATUS

Based on the laboratory analytical results from soil samples collected during the UST over-excavation activities, it appears that hydrocarbon-saturated soils have been removed from the site. However, based on annual groundwater monitoring data, specifically MTBE concentrations, collected from the most downgradient monitor well (MW-7), the extent of contamination in groundwater has not been adequately delineated in the downgradient direction.

RECENT CORRESPONDENCE

Historical correspondence from 2003 includes a letter from the City of Hayward dated April 18, 2003, where the City stated that the oversight of the UST Site Contamination Case for the 28250 Hesperian Boulevard property was transferred to the Alameda County Department of Environmental Health (ACDEH). The letter referred to Mr. Scott Seery, Hazardous Materials Specialist with the ACDEH, as the contact for the site. Recently, the site was managed by Mr. Don Hwang of the ACDEH.

ConocoPhillips and Delta have initiated verbal correspondences and dialog with the ACDEH. These correspondences resulted in the submittal of a Supplemental Site Assessment Work Plan in the fourth quarter 2005. Following submittal of the work plan, Delta was notified that the site was transferred from the ACDEH to the Alameda County Water District (ACWD) and that Ms. Eileen Chen is the new Case Manager for the site. Based on this information, Delta submitted the Assessment Work Plan and the third quarter 2005 Quarterly Summary Report to the ACWD. Approval of the assessment work plan is pending.

THIS QUARTER ACTIVITIES (Fourth Quarter 2005)

- Delta submitted a Third Quarter Quarterly Summary Report on November 25, 2005.
- Delta prepared and submitted a Supplemental Site Assessment Work Plan.

NEXT QUARTER ACTIVITIES (First Quarter 2006)

- Upon approval from the ACWD, Delta anticipates the completion of the proposed assessment activities described in the Supplemental Site Assessment Work Plan to further assess the dissolved-phase hydrocarbon plume in the area of MW-6.

CONSULTANT: Delta Environmental Consultants, Inc.

TRC

Customer-Focused Solutions

April 4, 2005

ConocoPhillips Company
76 Broadway
Sacramento, CA 95818

ATTN: MS. SHELBY LATHROP

SITE: 76 STATION 5487
28250 HESPERIAN BOULEVARD
HAYWARD, CALIFORNIA

RE: ANNUAL MONITORING REPORT
APRIL 2004 THROUGH MARCH 2005

Dear Ms. Lathop:

Please find enclosed our Annual Monitoring Report for 76 Station 5487, located at 28250 Hesperian Boulevard, Dublin, California. If you have any questions regarding this report, please call us at (949) 753-0101.

Sincerely,

TRC

for

Anju Farfan
QMS Operations Manager

CC: Mr. Erick Hetrick, Delta Environmental (3 copies)

Enclosures
20-0400/5487R02.QMS

21 Technology Drive • Irvine, California 92618
Telephone 949-753-0101 • Fax 949-753-0111

TRC

Customer-Focused Solutions

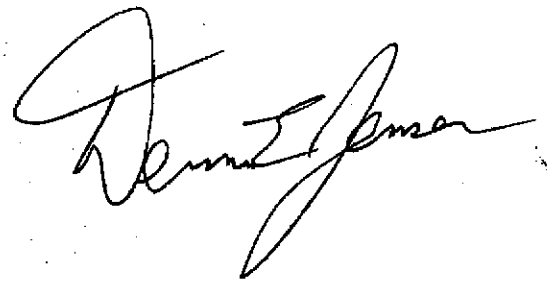
ANNUAL MONITORING REPORT
APRIL 2004 THROUGH MARCH 2005

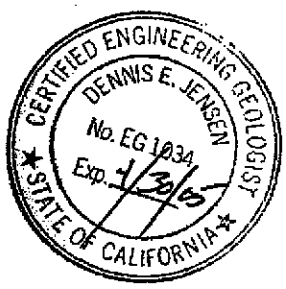
76 STATION 5487
5487 Hesperian Boulevard
Hayward, California

Prepared For:

Ms. Shelby Lathrop
CONOCOPHILLIPS COMPANY
76 Broadway
Sacramento, California 95818

By:





Senior Project Geologist, Irvine Operations
April 1, 2005

21 Technology Drive • Irvine, California 92618
Telephone 949-753-0101 • Fax 949-753-0111

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
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
April 2004 through March 2005
76 Station 5487
28250 Hesperian Boulevard
Hayward, CA

Project Coordinator: **Shelby Lathrop** Water Sampling Contractor: ***TRC***
Telephone: **916-558-7609** Compiled by: **Valentina Tobon**
Date(s) of Gauging/Sampling Event: **03/02/05**

Sample Points

Groundwater wells: **6** onsite, **1** offsite Wells gauged: **7** Wells sampled: **3**
Purging method: **Diaphragm pump**
Purge water disposal: **Onyx/Rodeo Unit 100**
Other Sample Points: **0** Type: **n/a**

Liquid Phase Hydrocarbons (LPH)

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

Hydrogeologic Parameters

Depth to groundwater (below TOC): Minimum: **4.01 feet** Maximum: **6.3 feet**
Average groundwater elevation (relative to available local datum): **6.26 feet**
Average change in groundwater elevation since previous event: **0.86 feet**
Interpreted groundwater gradient and flow direction:
Current event: **0.008 ft/ft, south**
Previous event: **0.006 ft/ft, south (02/20/04)**

Selected Laboratory Results

Wells with detected **Benzene:** **2** Wells above MCL (1.0 µg/l): **2**
Maximum reported benzene concentration: **8.2 µg/l (MW-5)**

Wells with **TPPH 8260B** **1** Maximum: **110 µg/l (MW-5)**
Wells with **MTBE** **3** Maximum: **390 µg/l (MW-6)**

Notes:

MW-1=Monitored only, MW-2=Monitored only, MW-3=Monitored only, MW-4=Monitored only,

This report presents the results of groundwater monitoring and sampling activities performed by TRC. Please contact the primary consultant for other specific information on this site.

TABLE KEY

STANDARD ABREVIATIONS

--	=	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: 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.
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 5487 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 2, 2005

76 Station 5487

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-1		**(Screen Interval in feet: 4.0-28.0)**												
03/02/05	11.73	5.02	0.00	6.71	0.99	--	--	--	--	--	--	--	--	Monitored only
MW-2		**(Screen Interval in feet: 4.0-24.0)**												
03/02/05	12.58	5.75	0.00	6.83	1.05	--	--	--	--	--	--	--	--	Monitored only
MW-3		**(Screen Interval in feet: 5.0-25.0)**												
03/02/05	11.99	6.30	0.00	5.69	0.27	--	--	--	--	--	--	--	--	Monitored only
MW-4		**(Screen Interval in feet: 5.0-25.0)**												
03/02/05	11.58	4.78	0.00	6.80	1.05	--	--	--	--	--	--	--	--	Monitored only
MW-5		**(Screen Interval in feet: 4.0-24.0)**												
03/02/05	10.79	4.74	0.00	6.05	0.89	--	110	8.2	1.2	0.88	2.1	--	350	
MW-6		**(Screen Interval in feet: 5.0-18.0)**												
03/02/05	11.18	4.80	0.00	6.38	0.83	--	ND<200	3.0	0.58	0.68	ND<1.0	--	390	
MW-7		**(Screen Interval in feet: 3.5-19.0)**												
03/02/05	9.39	4.01	0.00	5.38	0.92	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	120	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

April 1989 Through March 2005

76 Station 5487

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-1	**(Screen Interval in feet: 4.0-28.0)**													
04/26/89	--	--	0.00	--	--	ND	--	2.1	ND	ND	ND	--	--	
08/16/89	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
11/14/89	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
02/16/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
05/16/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
08/29/90	--	--	--	--	--	ND	--	ND	ND	ND	0.74	--	--	
11/15/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
02/11/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
05/10/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
08/02/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
11/07/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
08/04/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
05/03/93	12.57	6.87	0.00	5.70	--	--	--	--	--	--	--	--	--	
08/05/93	12.57	7.49	0.00	5.08	-0.62	ND	--	ND	ND	ND	ND	--	--	
11/05/93	11.73	6.98	0.00	4.75	-0.33	--	--	--	--	--	--	--	--	
02/07/94	11.73	6.26	0.00	5.47	0.72	--	--	--	--	--	--	--	--	
05/02/94	11.73	6.27	0.00	5.46	-0.01	--	--	--	--	--	--	--	--	
08/02/94	11.73	6.89	0.00	4.84	-0.62	ND	--	ND	ND	ND	ND	--	--	
11/02/94	11.73	7.07	0.00	4.66	-0.18	--	--	--	--	--	--	--	--	
02/01/95	11.73	5.17	0.00	6.56	1.90	--	--	--	--	--	--	--	--	
05/02/95	11.73	5.65	0.00	6.08	-0.48	--	--	--	--	--	--	--	--	
08/03/95	11.73	6.21	0.00	5.52	-0.56	ND	--	ND	ND	ND	ND	--	--	
11/06/95	11.73	6.80	0.00	4.93	-0.59	--	--	--	--	--	--	--	--	
02/02/96	11.73	3.88	0.00	7.85	2.92	--	--	--	--	--	--	--	--	Sampled annually

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

April 1989 Through March 2005

76 Station 5487

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-1 continued														
02/07/97	11.73	4.63	0.00	7.10	--	--	--	--	--	--	--	--	--	Sampling discontinued
02/09/98	11.73	2.70	0.00	9.03	1.93	--	--	--	--	--	--	--	--	
02/02/99	11.73	5.42	0.00	6.31	-2.72	--	--	--	--	--	--	--	--	
02/04/00	11.73	4.08	0.00	7.65	1.34	--	--	--	--	--	--	--	--	
02/02/01	11.73	5.26	0.00	6.47	-1.18	--	--	--	--	--	--	--	--	
03/02/02	11.73	5.65	0.00	6.08	-0.39	--	--	--	--	--	--	--	--	
02/22/03	11.73	5.87	0.00	5.86	-0.22	--	--	--	--	--	--	--	--	
02/20/04	11.73	6.01	0.00	5.72	-0.14	--	--	--	--	--	--	--	--	Monitored Only
03/02/05	11.73	5.02	0.00	6.71	0.99	--	--	--	--	--	--	--	--	Monitored only
MW-2	**(Screen Interval in feet: 4.0-24.0)**													
04/26/89	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
08/16/89	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
11/14/89	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
02/16/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
05/16/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
08/29/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
11/15/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
02/11/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
05/10/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
08/02/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
11/07/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
08/04/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
05/03/93	12.89	7.30	0.00	5.59	--	--	--	--	--	--	--	--	--	
08/05/93	12.89	7.97	0.00	4.92	-0.67	ND	--	ND	ND	ND	ND	--	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

April 1989 Through March 2005

76 Station 5487

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														
11/05/93	12.58	7.97	0.00	4.61	-0.31	--	--	--	--	--	--	--	--	
02/07/94	12.58	7.09	0.00	5.49	0.88	--	--	--	--	--	--	--	--	
05/02/94	12.58	7.23	0.00	5.35	-0.14	--	--	--	--	--	--	--	--	
08/02/94	12.58	7.87	0.00	4.71	-0.64	ND	--	ND	ND	ND	ND	--	--	
11/02/94	12.58	7.98	0.00	4.60	-0.11	--	--	--	--	--	--	--	--	
02/01/95	12.58	6.13	0.00	6.45	1.85	--	--	--	--	--	--	--	--	
05/02/95	12.58	7.04	0.00	5.54	-0.91	--	--	--	--	--	--	--	--	
08/03/95	12.58	7.19	0.00	5.39	-0.15	ND	--	ND	ND	ND	ND	--	--	
11/06/95	12.58	7.80	0.00	4.78	-0.61	--	--	--	--	--	--	--	--	
02/02/96	12.58	5.91	0.00	6.67	1.89	--	--	--	--	--	--	--	--	Sampled annually
02/07/97	12.58	5.65	0.00	6.93	--	--	--	--	--	--	--	--	--	Sampling discontinued
02/09/98	12.58	3.63	0.00	8.95	2.02	--	--	--	--	--	--	--	--	
02/02/99	12.58	6.36	0.00	6.22	-2.73	--	--	--	--	--	--	--	--	
02/04/00	12.58	6.04	0.00	6.54	0.32	--	--	--	--	--	--	--	--	
02/02/01	12.58	6.44	0.00	6.14	-0.40	--	--	--	--	--	--	--	--	
03/02/02	12.58	6.61	0.00	5.97	-0.17	--	--	--	--	--	--	--	--	
02/22/03	12.58	--	--	--	--	--	--	--	--	--	--	--	--	
02/20/04	12.58	6.80	0.00	5.78	--	--	--	--	--	--	--	--	--	Monitored Only
03/02/05	12.58	5.75	0.00	6.83	1.05	--	--	--	--	--	--	--	--	Monitored only
MW-3	**(Screen Interval in feet: 5.0-25.0)**													
04/26/89	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
08/16/89	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
11/14/89	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
02/16/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

April 1989 Through March 2005

76 Station 5487

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-3 continued														
05/16/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
08/29/90	--	--	--	--	--	ND	--	ND	0.52	ND	ND	--	--	
11/15/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
02/11/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
05/10/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
08/02/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
11/07/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
08/04/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
05/03/93	12.46	6.82	0.00	5.64	--	--	--	--	--	--	--	--	--	
08/05/93	12.46	7.50	0.00	4.96	-0.68	--	--	--	--	--	--	--	--	
11/05/93	11.99	7.35	0.00	4.64	-0.32	--	--	--	--	--	--	--	--	
02/07/94	11.99	6.58	0.00	5.41	0.77	--	--	--	--	--	--	--	--	
05/02/94	11.99	6.62	0.00	5.37	-0.04	--	--	--	--	--	--	--	--	
08/02/94	11.99	7.24	0.00	4.75	-0.62	ND	--	ND	ND	ND	ND	--	--	
11/02/94	11.99	7.42	0.00	4.57	-0.18	--	--	--	--	--	--	--	--	
02/01/95	11.99	5.55	0.00	6.44	1.87	--	--	--	--	--	--	--	--	
05/02/95	11.99	5.70	0.00	6.29	-0.15	--	--	--	--	--	--	--	--	
08/03/95	11.99	6.59	0.00	5.40	-0.89	ND	--	ND	ND	ND	ND	--	--	
11/06/95	11.99	7.20	0.00	4.79	-0.61	--	--	--	--	--	--	--	--	
02/02/96	11.99	4.08	0.00	7.91	3.12	--	--	--	--	--	--	--	--	Sampled annually
02/07/97	11.99	5.04	0.00	6.95	--	--	--	--	--	--	--	--	--	Sampling discontinued
02/09/98	11.99	3.11	0.00	8.88	1.93	--	--	--	--	--	--	--	--	
02/02/99	11.99	5.69	0.00	6.30	-2.58	--	--	--	--	--	--	--	--	
02/04/00	11.99	4.26	0.00	7.73	1.43	--	--	--	--	--	--	--	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

April 1989 Through March 2005

76 Station 5487

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-3 continued														
02/02/01	11.99	4.91	0.00	7.08	-0.65	--	--	--	--	--	--	--	--	
03/02/02	11.99	6.07	0.00	5.92	-1.16	--	--	--	--	--	--	--	--	
02/22/03	11.99	6.37	0.00	5.62	-0.30	--	--	--	--	--	--	--	--	
02/20/04	11.99	6.57	0.00	5.42	-0.20	--	--	--	--	--	--	--	--	Monitored Only
03/02/05	11.99	6.30	0.00	5.69	0.27	--	--	--	--	--	--	--	--	Monitored only
MW-4	**(Screen Interval in feet: 5.0-25.0)**													
04/26/89	--	--	--	--	--	ND	--	0.33	ND	ND	ND	--	--	
08/16/89	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
11/14/89	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
02/16/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
05/16/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
08/29/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
11/15/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
02/11/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
05/10/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
08/02/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
11/07/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
08/04/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
05/03/93	12.09	6.60	0.00	5.49	--	--	--	--	--	--	--	--	--	
08/05/93	12.09	7.28	0.00	4.81	-0.68	ND	--	ND	ND	ND	ND	--	--	
11/05/93	11.58	7.07	0.00	4.51	-0.30	--	--	--	--	--	--	--	--	
02/07/94	11.58	6.21	0.00	5.37	0.86	--	--	--	--	--	--	--	--	
05/02/94	11.58	6.32	0.00	5.26	-0.11	--	--	--	--	--	--	--	--	
08/02/94	11.58	6.95	0.00	4.63	-0.63	ND	--	ND	ND	ND	ND	--	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

April 1989 Through March 2005

76 Station 5487

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-4 continued														
11/02/94	11.58	7.13	0.00	4.45	-0.18	--	--	--	--	--	--	--	--	Sampled annually
02/01/95	11.58	5.23	0.00	6.35	1.90	--	--	--	--	--	--	--	--	
05/02/95	11.58	5.43	0.00	6.15	-0.20	--	--	--	--	--	--	--	--	
08/03/95	11.58	6.33	0.00	5.25	-0.90	ND	--	ND	ND	ND	ND	--	--	
11/06/95	11.58	6.90	0.00	4.68	-0.57	--	--	--	--	--	--	--	--	
02/02/96	11.58	3.71	0.00	7.87	3.19	--	--	--	--	--	--	--	--	
02/07/97	11.58	4.46	0.00	7.12	--	--	--	--	--	--	--	--	--	Sampling discontinued
02/09/98	11.58	2.55	0.00	9.03	1.91	--	--	--	--	--	--	--	--	
02/02/99	11.58	5.37	0.00	6.21	-2.82	--	--	--	--	--	--	--	--	
02/04/00	11.58	4.09	0.00	7.49	1.28	--	--	--	--	--	--	--	--	
02/02/01	11.58	5.12	0.00	6.46	-1.03	--	--	--	--	--	--	--	--	
03/02/02	11.58	5.51	0.00	6.07	-0.39	--	--	--	--	--	--	--	--	
02/22/03	11.58	6.12	0.00	5.46	-0.61	--	--	--	--	--	--	--	--	
02/20/04	11.58	5.83	0.00	5.75	0.29	--	--	--	--	--	--	--	--	Monitored Only
03/02/05	11.58	4.78	0.00	6.80	1.05	--	--	--	--	--	--	--	--	Monitored only
MW-5	**(Screen Interval in feet: 4.0-24.0)**													
04/26/89	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
08/16/89	--	--	--	--	--	4400	--	1400	84	200	950	--	--	
08/31/89	--	--	--	--	--	910	--	120	7.1	50	53	--	--	
11/14/89	--	--	--	--	--	73	--	4.7	0.97	2.9	16	--	--	
02/16/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
05/16/90	--	--	--	--	--	1100	--	310	2.8	70	110	--	--	
08/29/90	--	--	--	--	--	ND	--	0.7	ND	0.57	1.1	--	--	
11/15/90	--	--	--	--	--	ND	--	ND	ND	ND	0.47	--	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

April 1989 Through March 2005

76 Station 5487

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-5 continued														
02/11/91	--	--	--	--	--	58	--	23	ND	2.9	1.3	--	--	
05/10/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
08/02/91	--	--	--	--	--	100	--	43	0.33	12	5.2	--	--	
11/07/91	--	--	--	--	--	700	--	43	1.7	29	24	--	--	
02/05/92	--	--	--	--	--	120	--	20	ND	4.4	4.7	--	--	
05/05/92	--	--	--	--	--	170	--	45	0.48	9	6.8	--	--	
08/04/92	--	--	--	--	--	80	--	13	ND	4.5	6.9	--	--	
11/05/92	--	--	--	--	--	120	--	16	ND	3.5	3	--	--	
02/02/93	--	--	--	--	--	77	--	5	ND	1.2	1.3	--	--	
05/03/93	11.18	6.16	0.00	5.02	--	260	--	35	ND	2.3	3.1	--	--	
08/05/93	11.18	6.97	0.00	4.21	-0.81	530	--	210	0.62	54	44	--	--	
11/05/93	10.79	6.81	0.00	3.98	-0.23	110	--	12	ND	2.3	2.3	--	--	
02/07/94	10.79	5.70	0.00	5.09	1.11	180	--	22	ND	6.4	5.9	--	--	
05/02/94	10.79	5.96	0.00	4.83	-0.26	170	--	38	0.73	8.5	8.4	--	--	
08/02/94	10.79	6.68	0.00	4.11	-0.72	59	--	16	ND	2.4	3.1	--	--	
11/02/94	10.79	6.86	0.00	3.93	-0.18	450	--	73	1.6	6.2	11	--	--	
02/01/95	10.79	4.85	0.00	5.94	2.01	170	--	11	ND	2.4	3.9	--	--	
05/02/95	10.79	4.95	0.00	5.84	-0.10	ND	--	7.5	0.51	1.2	1.6	--	--	
08/03/95	10.79	6.03	0.00	4.76	-1.08	ND	--	12	ND	0.7	ND	--	--	
11/06/95	10.79	6.70	0.00	4.09	-0.67	160	--	80	ND	7.4	10	120	--	
02/02/96	10.79	3.50	0.00	7.29	3.20	64	--	20	ND	3.9	6.1	150	--	
02/07/97	10.79	4.26	0.00	6.53	--	85	--	16	0.56	1.7	3.8	250	--	
02/09/98	10.79	2.29	0.00	8.50	1.97	220	--	54	ND	3.2	5.9	230	--	
02/02/99	10.79	5.07	0.00	5.72	-2.78	61	--	19	ND	1.3	2.1	110	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

April 1989 Through March 2005

76 Station 5487

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-5 continued														
02/04/00	10.79	3.68	0.00	7.11	1.39	ND	--	8.4	ND	ND	ND	86	--	
02/02/01	10.79	4.38	0.00	6.41	-0.70	ND	--	6.42	ND	ND	ND	223	--	
03/02/02	10.79	5.68	0.00	5.11	-1.30	93	--	11	ND<0.50	ND<0.50	ND<0.50	350	--	
02/22/03	10.79	5.84	0.00	4.95	-0.16	--	76	4.0	ND<0.50	ND<0.50	ND<1.0	--	180	
02/20/04	10.79	5.63	0.00	5.16	0.21	--	610	47	ND<1.0	2.7	ND<2.0	--	270	
03/02/05	10.79	4.74	0.00	6.05	0.89	--	110	8.2	1.2	0.88	2.1	--	350	
MW-6	**(Screen Interval in feet: 5.0-18.0)**													
08/04/92	--	--	--	--	--	540	--	12	7.9	35	110	--	--	
11/05/92	--	--	--	--	--	300	--	16	2.3	14	14	--	--	
02/02/93	--	--	--	--	--	400	--	66	5.5	32	13	--	--	
05/03/93	11.47	6.28	0.00	5.19	--	520	--	47	2.6	33	48	--	--	
08/05/93	11.47	7.05	0.00	4.42	-0.77	230	--	25	1.6	12	29	--	--	
11/05/93	11.18	7.02	0.00	4.16	-0.26	100	--	1.8	ND	0.79	2.2	--	--	
02/07/94	11.18	6.00	0.00	5.18	1.02	1100	--	130	14	13	130	--	--	
05/02/94	11.18	6.18	0.00	5.00	-0.18	440	--	20	4.2	11	26	--	--	
08/02/94	11.18	6.88	0.00	4.30	-0.70	220	--	13	1	12	28	--	--	
11/02/94	11.18	7.05	0.00	4.13	-0.17	840	--	30	2.5	26	57	--	--	
02/01/95	11.18	5.04	0.00	6.14	2.01	340	--	26	0.77	2.6	7	--	--	
05/02/95	11.18	5.00	0.00	6.18	0.04	ND	--	5.7	ND	0.81	1.1	--	--	
08/03/95	11.18	6.26	0.00	4.92	-1.26	ND	--	0.76	ND	ND	ND	--	--	
11/06/95	11.18	6.87	0.00	4.31	-0.61	210	--	17	0.66	14	37	130	--	
02/02/96	11.18	3.64	0.00	7.54	3.23	300	--	51	0.65	30	18	280	--	
02/07/97	11.18	4.41	0.00	6.77	--	66	--	5.8	1.2	2.1	6.6	450	--	
02/09/98	11.18	2.51	0.00	8.67	1.90	ND	--	1	ND	ND	ND	450	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

April 1989 Through March 2005

76 Station 5487

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-6 continued														
02/02/99	11.18	5.14	0.00	6.04	-2.63	ND	--	2.6	ND	1	2.9	490	--	
02/04/00	11.18	4.11	0.00	7.07	1.03	110	--	3.9	ND	ND	ND	830	--	
02/02/01	11.18	5.06	0.00	6.12	-0.95	ND	--	4.79	ND	ND	ND	1800	1790	
03/02/02	11.18	6.09	0.00	5.09	-1.03	69	--	3.8	ND<0.50	ND<0.50	ND<0.50	780	900	
02/22/03	11.18	6.05	0.00	5.13	0.04	--	ND<250	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	550	
02/20/04	11.18	5.63	0.00	5.55	0.42	--	1900	ND<13	ND<13	ND<13	ND<25	--	2800	
03/02/05	11.18	4.80	0.00	6.38	0.83	--	ND<200	3.0	0.58	0.68	ND<1.0	--	390	
MW-7	**(Screen Interval in feet: 3.5-19.0)**													
07/03/96	--	--	--	--	--	--	--	--	--	--	--	--	--	
07/30/96	9.39	--	--	--	--	ND	--	ND	ND	ND	ND	ND	--	
02/07/97	9.39	3.75	0.00	5.64	--	ND	--	ND	ND	ND	ND	ND	--	
02/09/98	9.39	1.69	0.00	7.70	2.06	ND	--	ND	ND	ND	ND	ND	--	
02/02/99	9.39	4.14	0.00	5.25	-2.45	ND	--	ND	ND	ND	ND	ND	--	
02/04/00	9.39	3.97	0.00	5.42	0.17	ND	--	ND	ND	ND	ND	ND	--	
02/02/01	9.39	4.05	0.00	5.34	-0.08	ND	--	ND	ND	ND	ND	ND	--	
03/02/02	9.39	4.32	0.00	5.07	-0.27	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
02/22/03	9.39	5.64	0.00	3.75	-1.32	--	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	69	
02/20/04	9.39	4.93	0.00	4.46	0.71	--	67	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	79	
03/02/05	9.39	4.01	0.00	5.38	0.92	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	120	

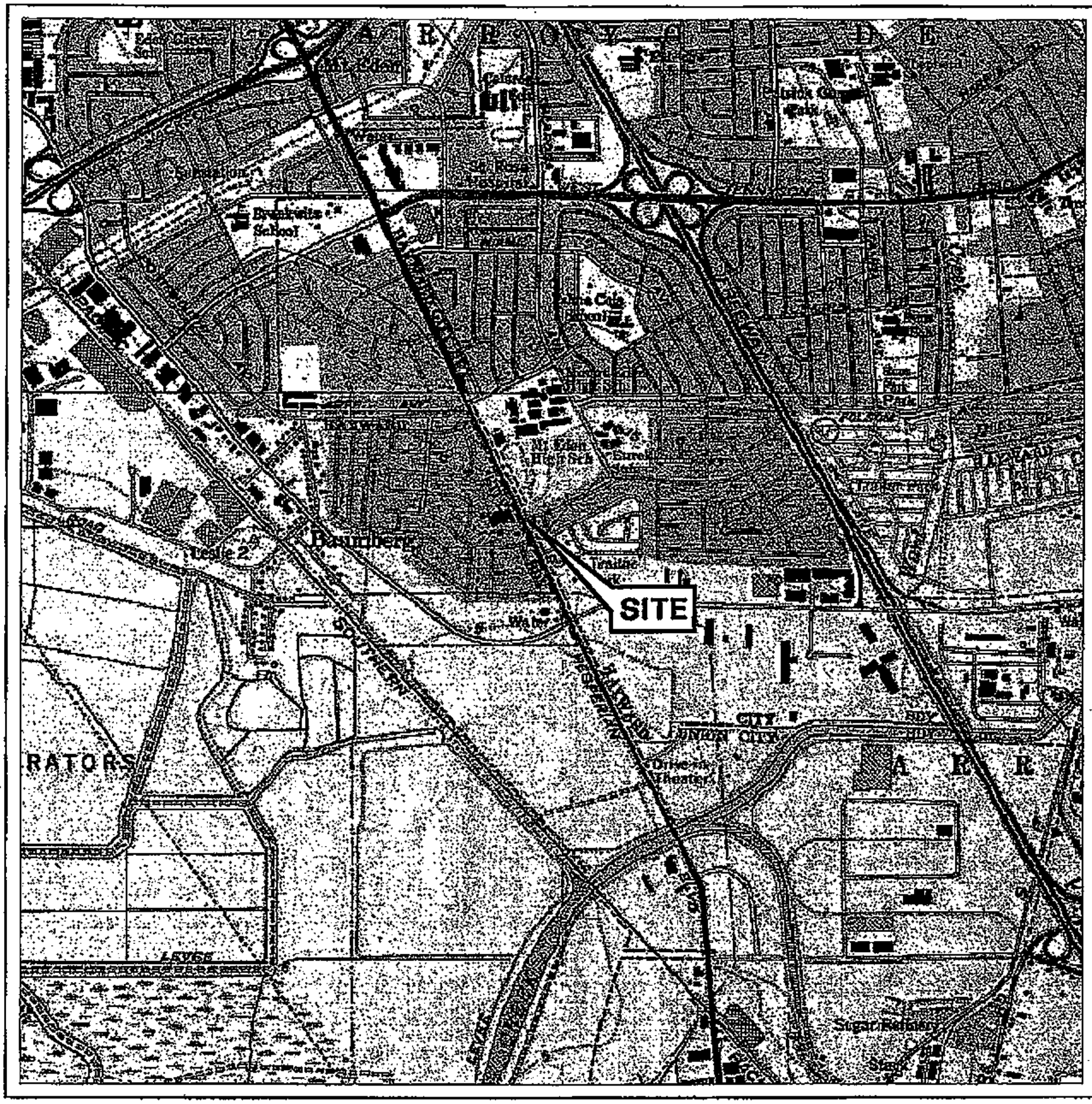
Table 3
ADDITIONAL ANALYTICAL RESULTS
76 Station 5487

Date Sampled	TPH-D	EDC	EDB	TAME 8260B	TBA 8260B	DIPE 8260B	ETBE 8260B	Ethanol 8260B	TOG
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)
MW-1									
11/14/89	ND	--	--	--	--	--	--	--	ND
02/16/90	ND	--	--	--	--	--	--	--	ND
05/16/90	ND	--	--	--	--	--	--	--	ND
08/29/90	ND	--	--	--	--	--	--	--	ND
11/15/90	ND	--	--	--	--	--	--	--	ND
02/11/91	ND	--	--	--	--	--	--	--	ND
MW-2									
04/26/89	ND	--	--	--	--	--	--	--	ND
11/14/89	ND	--	--	--	--	--	--	--	ND
05/16/90	ND	--	--	--	--	--	--	--	ND
MW-3									
04/26/89	ND	--	--	--	--	--	--	--	ND
MW-4									
04/26/89	ND	--	--	--	--	--	--	--	ND
MW-5									
04/26/89	ND	--	--	--	--	--	--	--	ND
02/20/04	--	--	--	--	--	--	--	ND<1000	--
03/02/05	--	--	--	--	--	--	--	ND<100	--
MW-6									
02/02/01	--	ND	ND	ND	ND	ND	ND	ND	--
03/02/02	--	ND<10	ND<10	ND<10	ND<500	ND<10	ND<10	ND<2500	--
02/22/03	--	ND<10	ND<10	ND<10	ND<500	ND<10	ND<10	ND<2500	--
02/20/04	--	ND<50	ND<50	ND<50	ND<2500	ND<50	ND<50	ND<13000	--
03/02/05	--	ND<2.0	ND<2.0	ND<2.0	330	ND<2.0	ND<2.0	ND<200	--
MW-7									

Table 3
ADDITIONAL ANALYTICAL RESULTS
76 Station 5487

Date Sampled	TPH-D	EDC	EDB	TAME 8260B	TBA 8260B	DIPE 8260B	ETBE 8260B	Ethanol 8260B	TOG
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)
MW-7 continued									
02/20/04	--	--	--	--	--	--	--	ND<500	--
03/02/05	--	--	--	--	--	--	--	ND<50	--

FIGURES



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

SCALE 1:24,000

N

VICINITY MAP

<u>SOURCE:</u>

United States Geological Survey
7.5 Minute Topographic Map:
Hayward Quadrangle

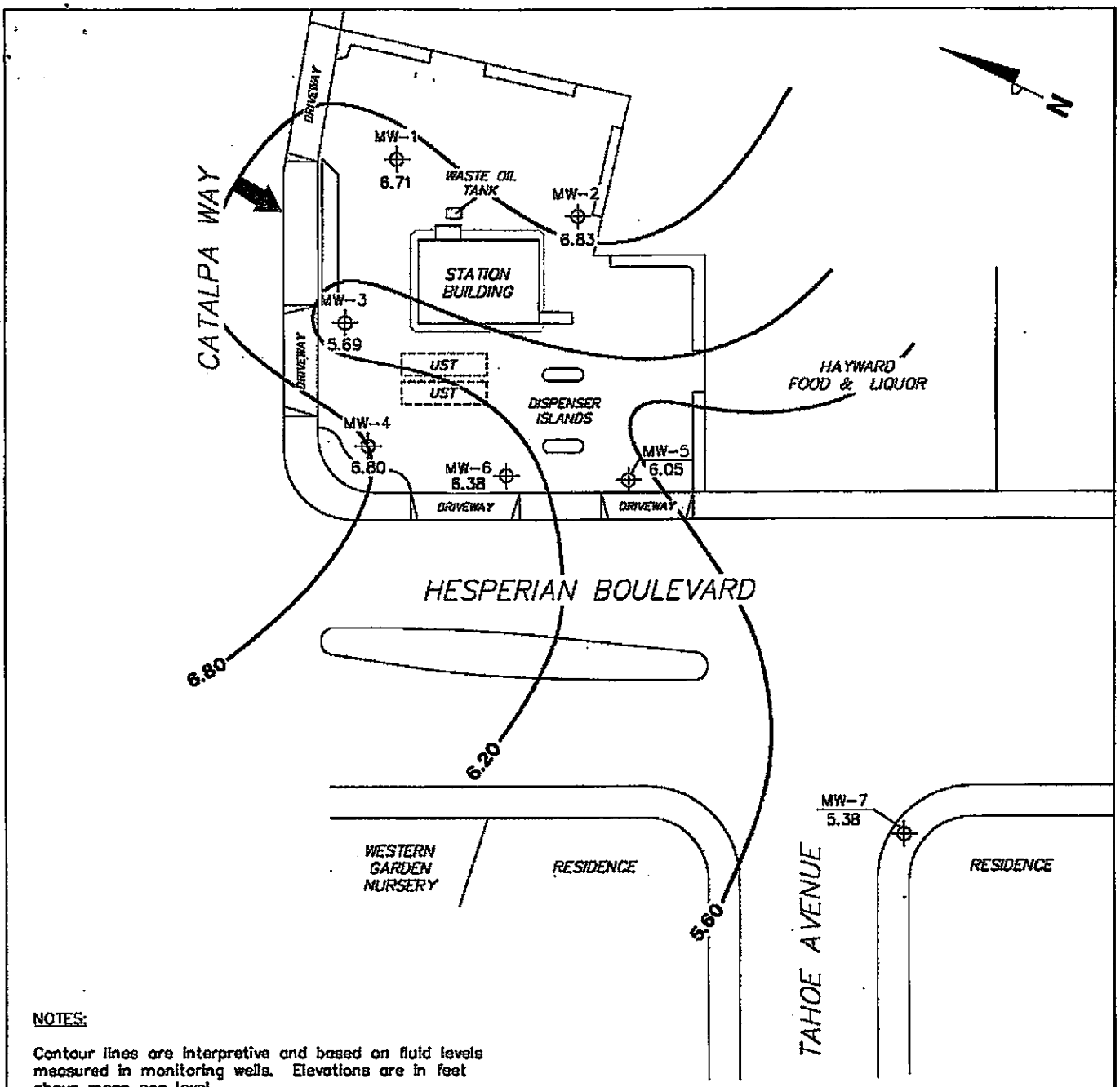
76 Station 5487
28250 Hesperian Boulevard
Hayward, California

TRC

FIGURE 1

PS = 1:1

Graphics on Irvine-fs1(L:)\VICINITY MAPS\1234vm.dwg 4/7/04 jrw



NOTES:

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

LEGEND

MW-7 ⊕ Monitoring Well with Groundwater Elevation (feet)

6.80 — Groundwater Elevation Contour

➡ General Direction of Groundwater Flow

GROUNDWATER ELEVATION CONTOUR MAP
March 2, 2005

76 Station 5487
28250 Hesperian Boulevard
Hayward, California

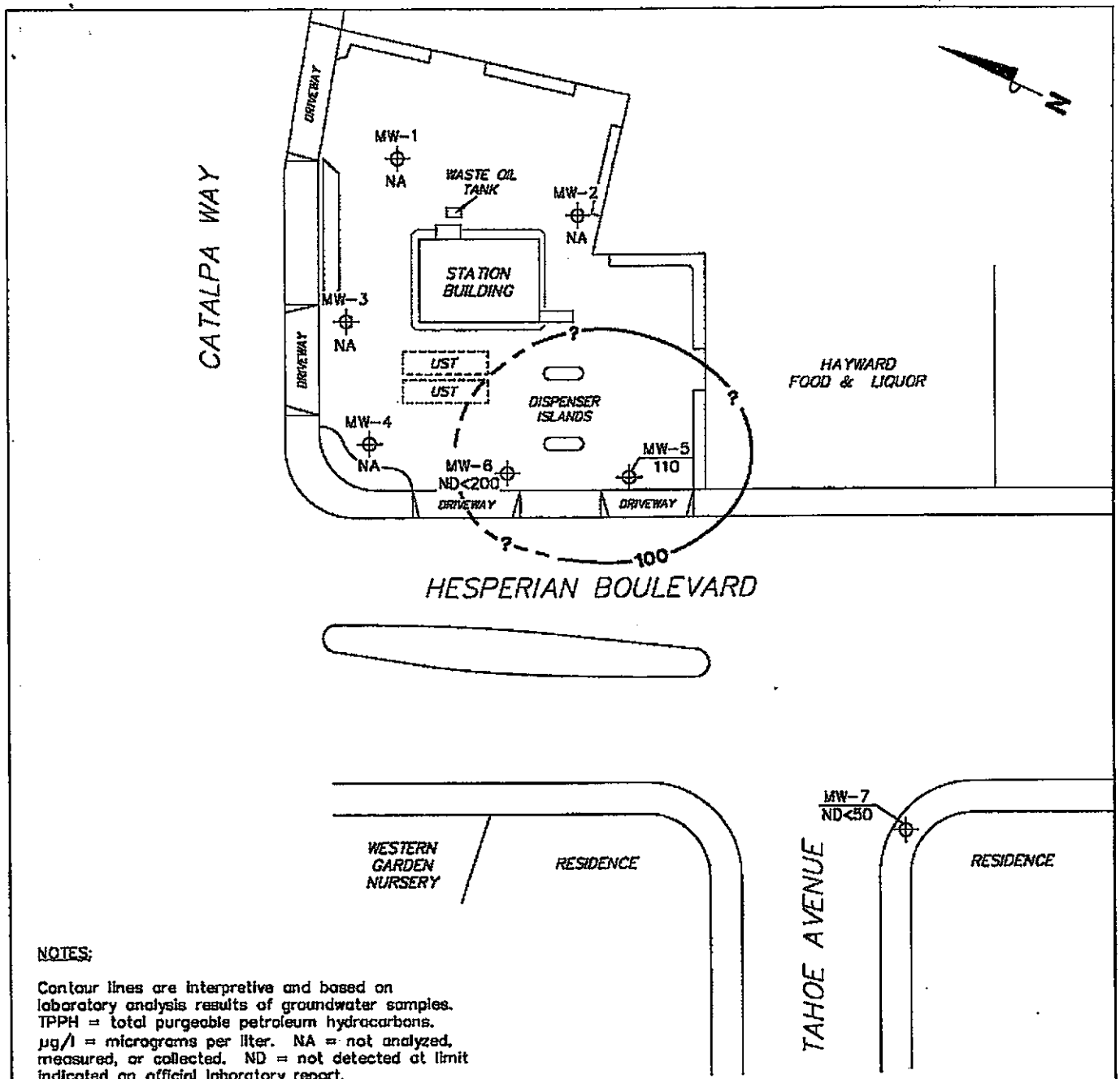
TRC

SCALE (FEET)
0 50

FIGURE 2

PS=1:1 5487-003

L:\Graphics\ProjectsByNumber\20-xxxx\20-0400(UnocalQMS)\x-5000\5487+\5487QMS1.dwg Mar 30, 2005 - 8:48am lwinters



NOTES:

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

LEGEND

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

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

DISSOLVED-PHASE TPPH CONCENTRATION MAP
March 2, 2005

76 Station 5487
28250 Hesperian Boulevard
Hayward, California

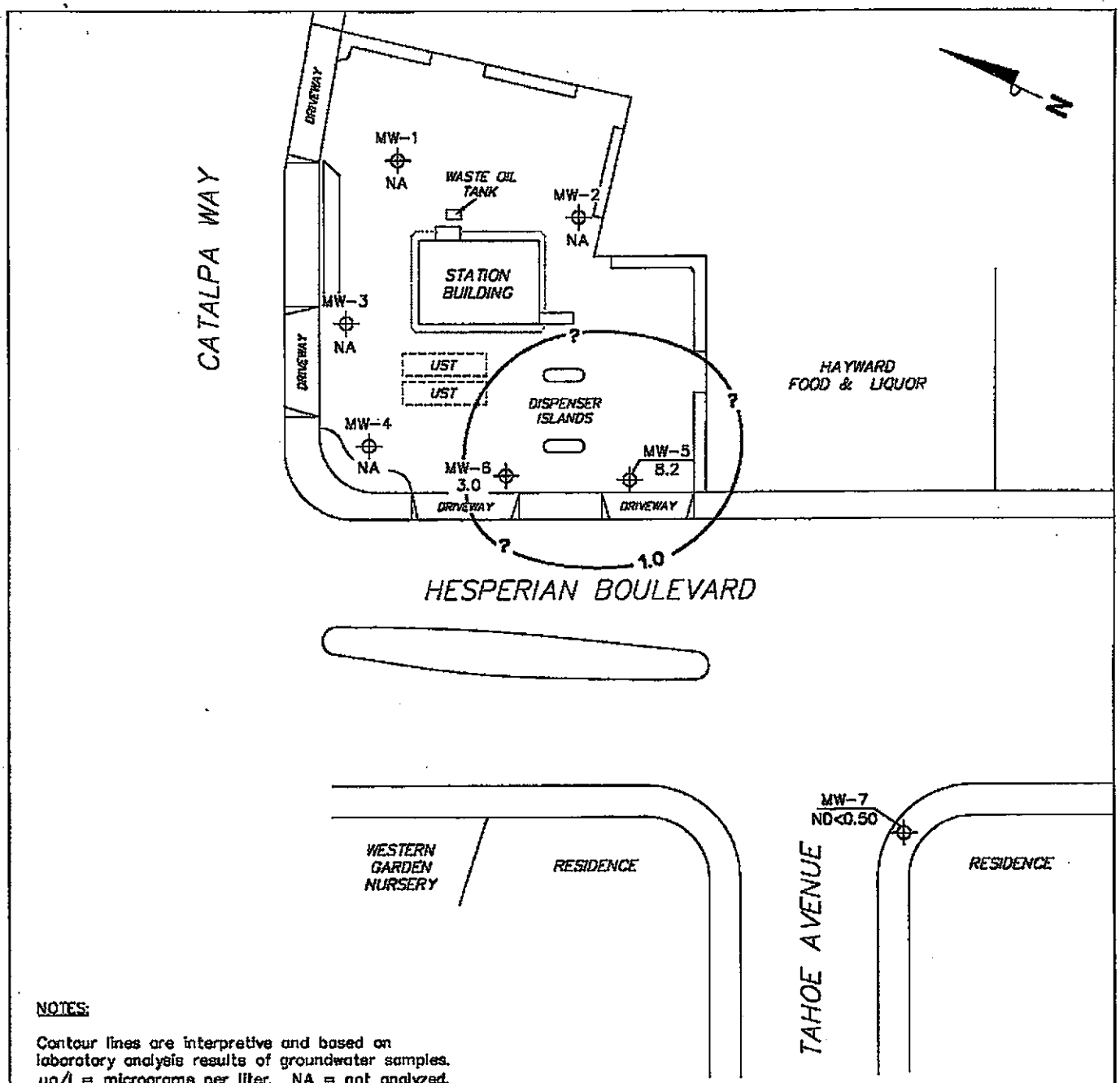
SCALE (FEET)
0 50

FIGURE 3

TRC

PS=1:1 5487-003

L:\Graphics\ProjectsByNumber\20-xxxx\20-0400(UnocalQMS)\x-5000\5487+\5487QMS1.dwg Mar 30, 2005 - 8:48am lwinters



NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. µg/l = micrograms per liter. NA = not analyzed, measured, or collected. 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)

—1.0— Dissolved-Phase Benzene Contour (µg/l)

DISSOLVED-PHASE BENZENE CONCENTRATION MAP
March 2, 2005

76 Station 5487
28250 Hesperian Boulevard
Hayward, California

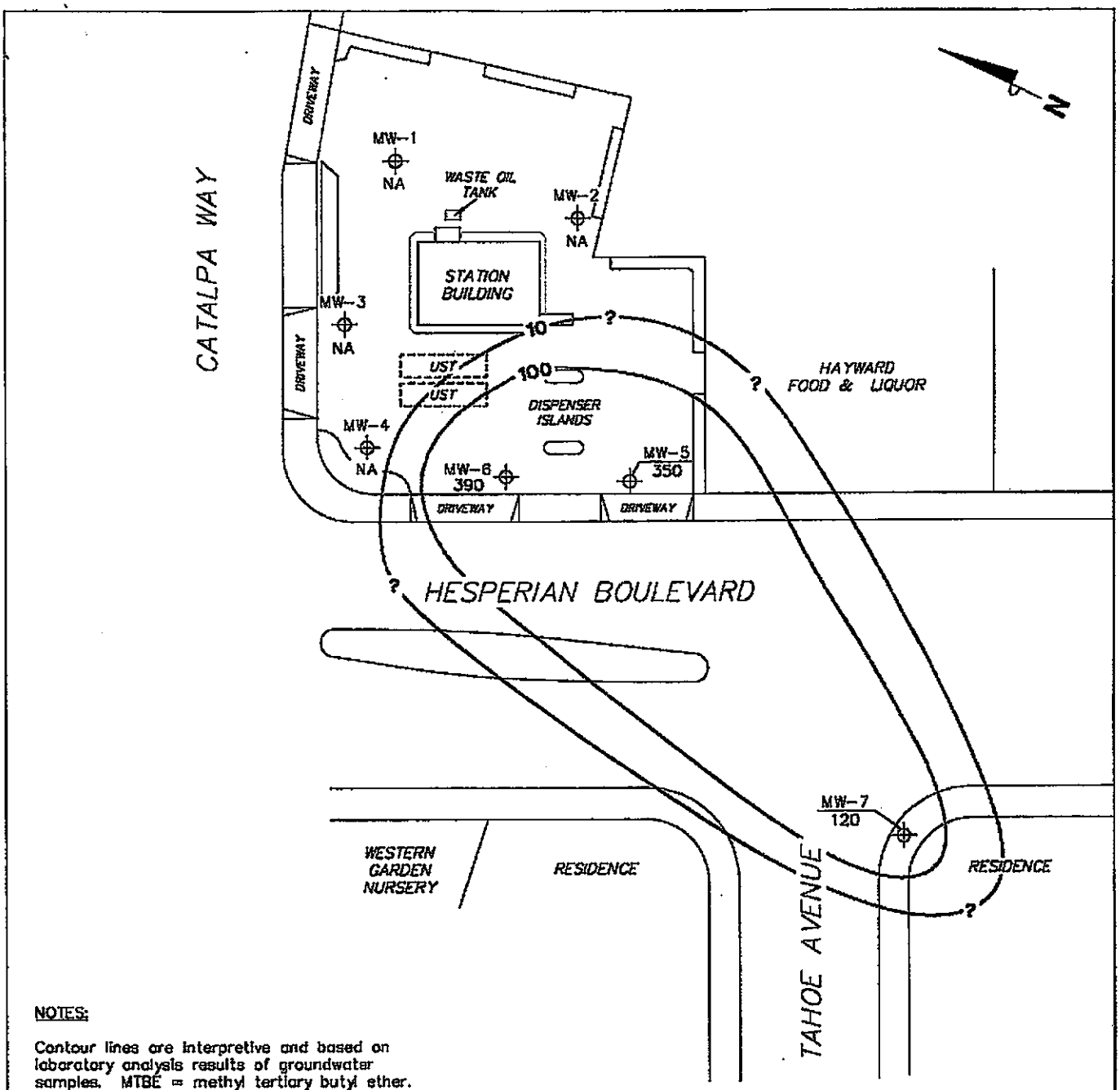
TRC

SCALE (FEET)
0 50

FIGURE 4

PS=1:1 5487-003

L:\Graphics\ProjectsByNumber\20-xxxx\20-0400(UnocalQMS)\x-5000\5487+\5487QMS1.dwg Mar 30, 2005 - 8:46am lwinters



NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. MTBE = methyl tertiary butyl ether. µg/l = micrograms per liter. NA = not analyzed, measured, or collected. UST = underground storage tank. Results obtained using EPA Method 8260B.

LEGEND

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

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

DISSOLVED-PHASE MTBE CONCENTRATION MAP
March 2, 2005

76 Station 5487
28250 Hesperian Boulevard
Hayward, California

TRC

SCALE (FEET)
0 50

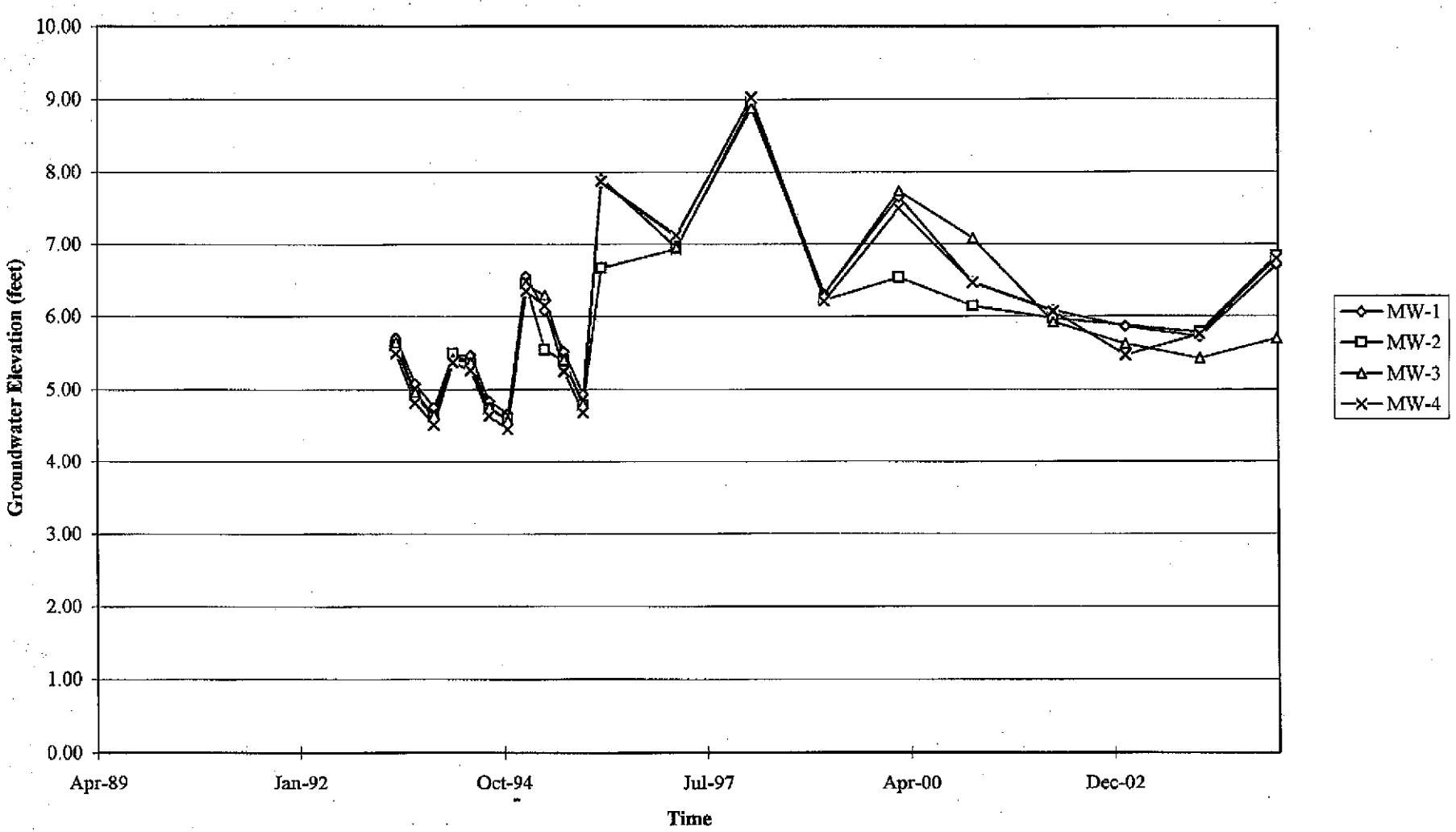
FIGURE 5

PS=1:1 5487-003

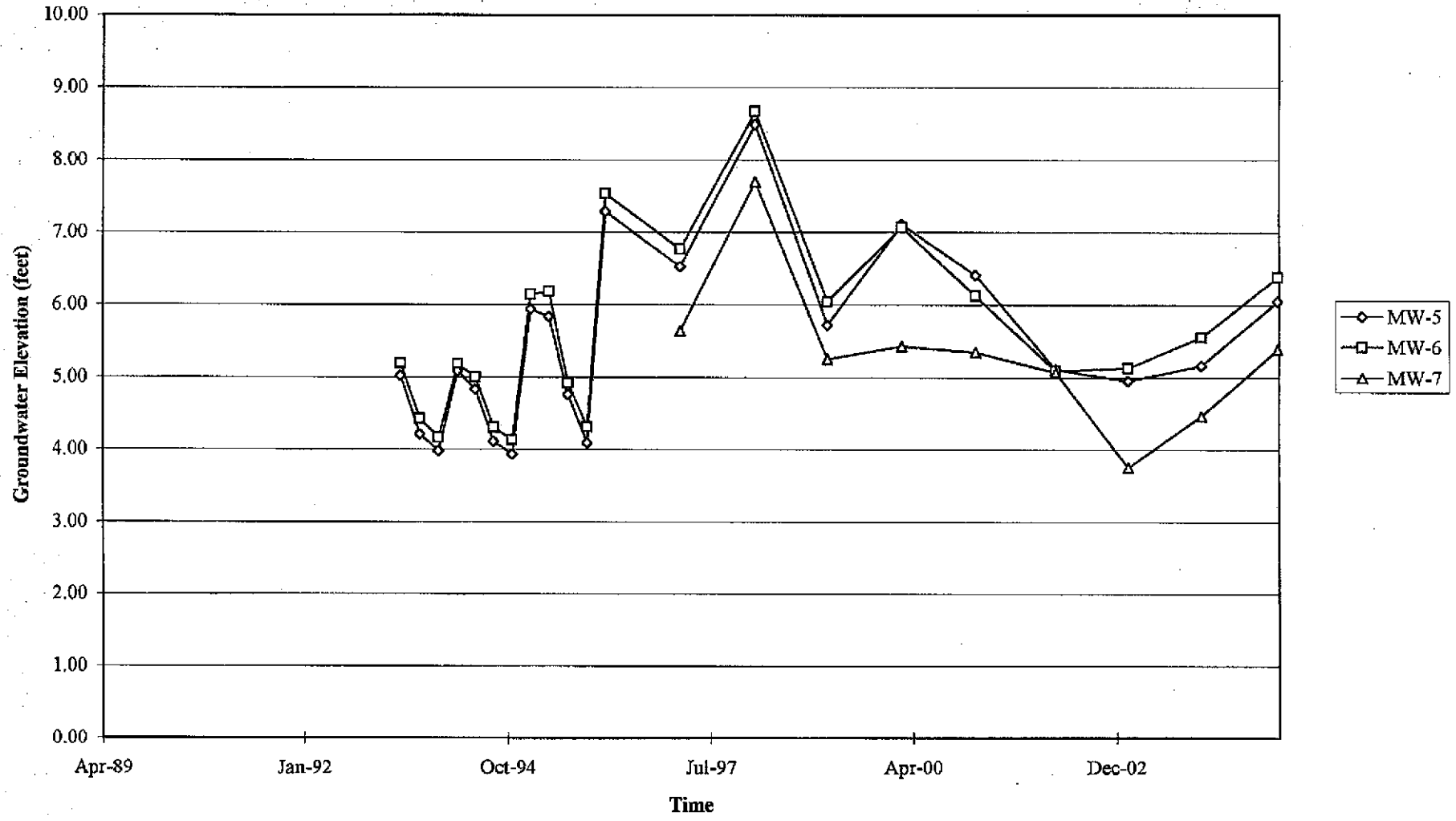
L:\Graphics\ProjectsByNumber\20-xxxx\20-0400(UnocalQMS)\x-5000\5487+\5487QMS1.dwg Mar 30, 2005 - 8:47am lwinters

GRAPHS

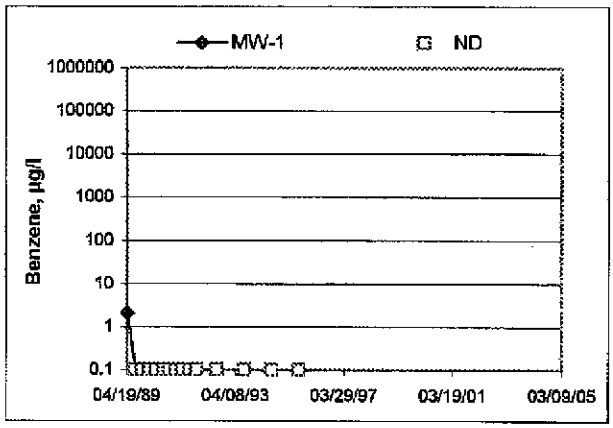
Groundwater Elevations vs. Time
76 Station 5487

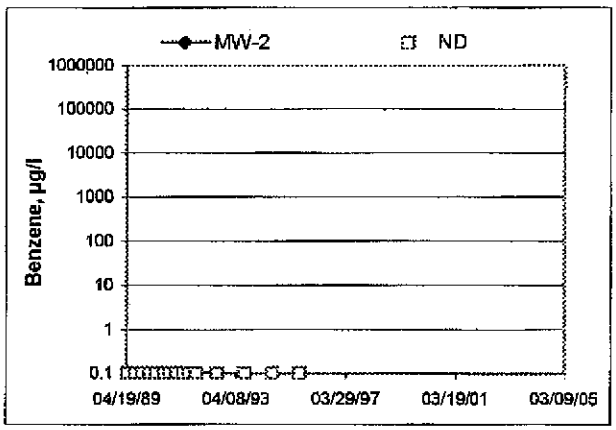


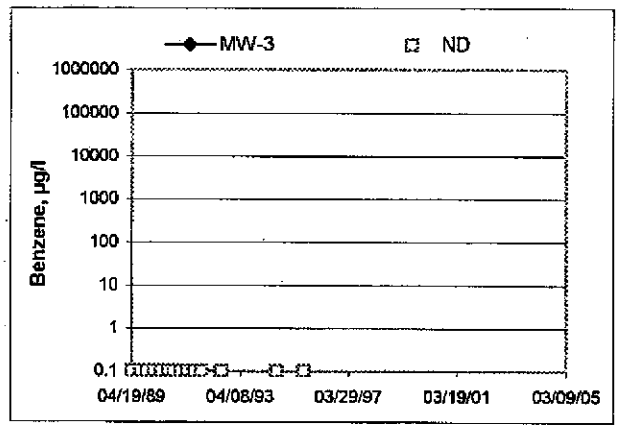
Groundwater Elevations vs. Time
76 Station 5487

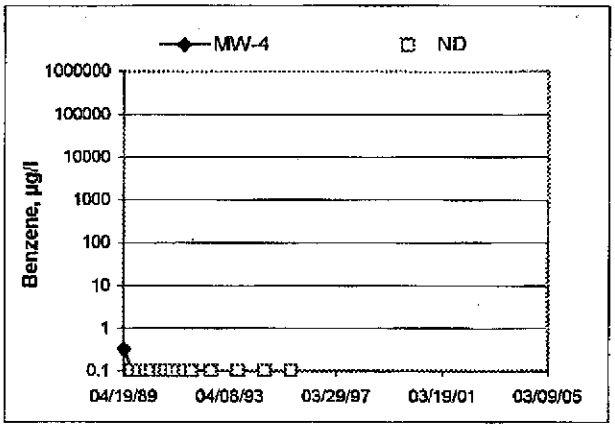


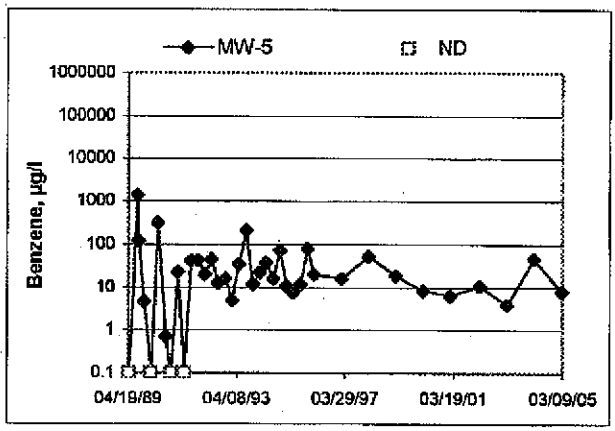
Benzene Concentrations vs Time
76 Station 5487

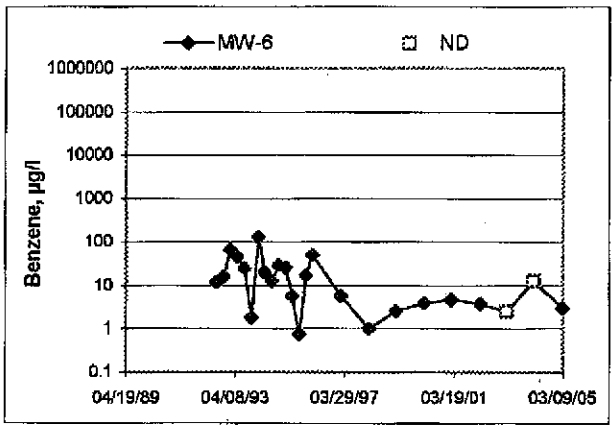


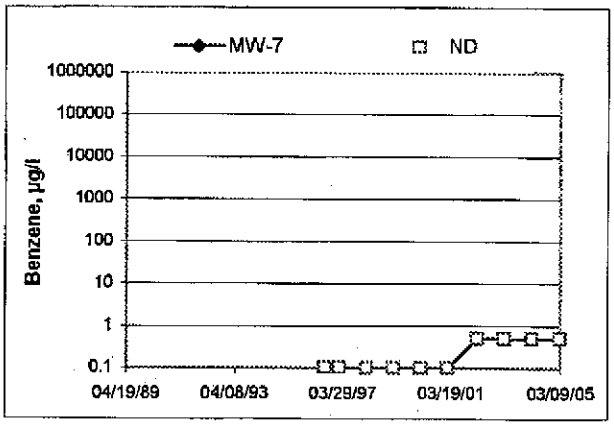












GENERAL FIELD PROCEDURES

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.

FIELD MONITORING DATA SHEET

Technician: AVEX Job #/Task #: 410500001 / F420 Date: 030205

Site # 5487 Project Manager A. COLLINS Page 1 of 1

Well #	TOC	Time Gauged	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
MW-1	✓	0633	27.15	5.02	⌀	⌀	N/S	2" MONITOR ONLY
MW-2	✓	0639	23.51	5.75	⌀	⌀	N/S	2"
MW-3	✓	0643	24.32	6.30	⌀	⌀	N/S	2"
MW-4	✓	0647	24.54	9.78	⌀	⌀	N/S	2"
MW-7	✓	0655	19.02	9.61	⌀	⌀	0749	2"
MW-6	✓	0707	17.97	9.30	⌀	⌀	0809	2"
MW-5	✓	0711	24.09	9.74	⌀	⌀	0838	2"

FIELD DATA COMPLETE	QA/QC	COC	WELL BOX CONDITION SHEETS
WTT CERTIFICATE	MANIFEST	DRUM INVENTORY	TRAFFIC CONTROL

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Alex

Site: 5487 Project No.: 4100001 Date: 030205

Well No.: MW-7 Purge Method: D

Depth to Water (feet): 4.61 Depth to Product (feet): -

Total Depth (feet): 19.02 LPH & Water Recovered (gallons): -

Water Column (feet): 15.01 Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 7.01 1 Well Volume (gallons): 3

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	Turbidity	D.O.
0736			3	1220	17.2	7.22		
			6	1192	18.2	7.24		
	0740		9	1158	18.6	7.25		

Static at Time Sampled	Total Gallons Purged	Time Sampled
5.08	9	0749

Comments:

Well No.: MW-6 Purge Method: D

Depth to Water (feet): 4.80 Depth to Product (feet): -

Total Depth (feet): 17.97 LPH & Water Recovered (gallons): -

Water Column (feet): 13.17 Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 7.43 1 Well Volume (gallons): 2

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	Turbidity	D.O.
0801			2	1130	18.1	7.43		
			4	1093	19.6	7.28		
	0804		6	1155	19.4	7.11		

Static at Time Sampled	Total Gallons Purged	Time Sampled
6.13	6	0809

Comments:

GROUNDWATER SAMPLING FIELD NOTES

Technician: AFK

Site: 5487 Project No.: 4105001 Date: 030205

Well No.: MW-5 Purge Method: D

Depth to Water (feet): 9.74 Depth to Product (feet): a

Total Depth (feet): 24.09 LPH & Water Recovered (gallons): a

Water Column (feet): 14.35 Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 8.61 1 Well Volume (gallons): 3

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	Turbidity	D.O.
0825			3	1247	20.6	7.21		
			6	1280	20.8	7.24		
	0830		9	1254	20.9	7.21		

Static at Time Sampled	Total Gallons Purged	Time Sampled
9.82	9	0838

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	Turbidity	D.O.

Static at Time Sampled	Total Gallons Purged	Time Sampled

Comments:

SEVERN TRENT STL

Submission#: 2005-03-0106

TRC Alton Geoscience- Irvine

March 21, 2005

21 Technology Drive
Irvine, CA 92718

Attn.: Anju Farfan

Project#: 41050001FA20
Project: Conoco Phillips # 5487
Site: 28250 Hesperian Blvd. Hayward

Attached is our report for your samples received on 03/02/2005 16:00
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 04/16/2005 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

Sincerely,

Dimple Sharma
Project Manager

SEVERN TRENT STL

Submission: 2005-03-0106

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 # 5487

Received: 03/02/2005 16:00

Site: 28250 Hesperian Blvd. Hayward

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-5	03/02/2005 08:38	Water	1
MW-7	03/02/2005 07:49	Water	2
MW-6	03/02/2005 08:09	Water	3

SEVERN TRENT STL

Submission: 2005-03-0106

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 # 5487

Received: 03/02/2005 16:00

Site: 28250 Hesperian Blvd. Hayward

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-5	Lab ID:	2005-03-0106 - 1
Sampled:	03/02/2005 08:38	Extracted:	3/15/2005 08:25 3/16/2005 20:45 3/16/2005 16:33
Matrix:	Water	QC Batch#:	2005/03/15-1A.65 2005/03/16-01.07 2005/03/16-1A.65

Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	110	100	ug/L	2.00	03/15/2005 08:25	
Benzene	8.2	0.50	ug/L	1.00	03/16/2005 20:45	
Toluene	1.2	0.50	ug/L	1.00	03/16/2005 20:45	
Ethylbenzene	0.88	0.50	ug/L	1.00	03/16/2005 20:45	
Total xylenes	2.1	1.0	ug/L	1.00	03/16/2005 20:45	
Methyl tert-butyl ether (MTBE)	350	1.0	ug/L	2.00	03/16/2005 16:33	
Ethanol	ND	100	ug/L	2.00	03/16/2005 16:33	
Surrogate(s)						
1,2-Dichloroethane-d4	127.4	73-130	%	2.00	03/16/2005 16:33	
1,2-Dichloroethane-d4	100.3	73-130	%	2.00	03/15/2005 08:25	
1,2-Dichloroethane-d4	117.5	73-130	%	1.00	03/16/2005 20:45	
Toluene-d8	102.5	81-114	%	1.00	03/16/2005 20:45	
Toluene-d8	94.6	81-114	%	2.00	03/15/2005 08:25	
Toluene-d8	107.5	81-114	%	2.00	03/16/2005 16:33	

SEVERN TRENT STL

Submission: 2005-03-0106

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 # 5487

Received: 03/02/2005 16:00

Site: 28250 Hesperian Blvd. Hayward

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW-7**	Lab ID:	2005-03-0106 - 2
Sampled:	03/02/2005 07:49	Extracted:	3/15/2005 08:51
Matrix:	Water	QC Batch#:	2005/03/15-1A.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	1.00	03/15/2005 08:51	Q6
Benzene	ND	0.50	ug/L	1.00	03/15/2005 08:51	
Toluene	ND	0.50	ug/L	1.00	03/15/2005 08:51	
Ethylbenzene	ND	0.50	ug/L	1.00	03/15/2005 08:51	
Total xylenes	ND	1.0	ug/L	1.00	03/15/2005 08:51	
Methyl tert-butyl ether (MTBE)	120	0.50	ug/L	1.00	03/15/2005 08:51	
Ethanol	ND	50	ug/L	1.00	03/15/2005 08:51	
Surrogate(s)						
1,2-Dichloroethane-d4	113.6	73-130	%	1.00	03/15/2005 08:51	
Toluene-d8	93.1	81-114	%	1.00	03/15/2005 08:51	

SEVERN TRENT STL

Submission: 2005-03-0106

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 # 5487

Received: 03/02/2005 16:00

Site: 28250 Hesperian Blvd. Hayward

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-6	Lab ID:	2005-03-0106 - 3
Sampled:	03/02/2005 08:09	Extracted:	3/16/2005 21:16 3/16/2005 21:49
Matrix:	Water	QC Batch#:	2005/03/16-01.07 2005/03/16-2D.65

Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	200	ug/L	4.00	03/16/2005 21:49	
Benzene	3.0	0.50	ug/L	1.00	03/16/2005 21:16	
Toluene	0.58	0.50	ug/L	1.00	03/16/2005 21:16	
Ethylbenzene	0.68	0.50	ug/L	1.00	03/16/2005 21:16	
Total xylenes	ND	1.0	ug/L	1.00	03/16/2005 21:16	
tert-Butyl alcohol (TBA)	330	20	ug/L	4.00	03/16/2005 21:49	
Methyl tert-butyl ether (MTBE)	390	2.0	ug/L	4.00	03/16/2005 21:49	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	4.00	03/16/2005 21:49	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	4.00	03/16/2005 21:49	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	4.00	03/16/2005 21:49	
1,2-DCA	ND	2.0	ug/L	4.00	03/16/2005 21:49	
EDB	ND	2.0	ug/L	4.00	03/16/2005 21:49	
Ethanol	ND	200	ug/L	4.00	03/16/2005 21:49	
Surrogate(s)						
1,2-Dichloroethane-d4	128.3	73-130	%	4.00	03/16/2005 21:49	
1,2-Dichloroethane-d4	120.6	73-130	%	1.00	03/16/2005 21:16	
Toluene-d8	106.5	81-114	%	4.00	03/16/2005 21:49	
Toluene-d8	101.9	81-114	%	1.00	03/16/2005 21:16	

SEVERN TRENT STL

Submission: 2005-03-0106

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 # 5487

Received: 03/02/2005 16:00

Site: 28250 Hesperian Blvd. Hayward

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Water** — **QC Batch # 2005/03/15-1A.65**

MB: 2005/03/15-1A.65-051 — Date Extracted: 03/15/2005 07:51

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	03/15/2005 07:51	
Benzene	ND	0.5	ug/L	03/15/2005 07:51	
Toluene	ND	0.5	ug/L	03/15/2005 07:51	
Ethylbenzene	ND	0.5	ug/L	03/15/2005 07:51	
Total xylenes	ND	1.0	ug/L	03/15/2005 07:51	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	03/15/2005 07:51	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	03/15/2005 07:51	
Di-isopropyl Ether (DIPE)	ND	0.5	ug/L	03/15/2005 07:51	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	03/15/2005 07:51	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	03/15/2005 07:51	
1,2-DCA	ND	0.5	ug/L	03/15/2005 07:51	
EDB	ND	0.5	ug/L	03/15/2005 07:51	
Ethanol	ND	50	ug/L	03/15/2005 07:51	
Surrogates(s)					
1,2-Dichloroethane-d4	122.6	73-130	%	03/15/2005 07:51	
Toluene-d8	113.6	81-114	%	03/15/2005 07:51	

SEVERN TRENT STL

Submission: 2005-03-0106

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 # 5487

Received: 03/02/2005 16:00

Site: 28250 Hesperian Blvd. Hayward

Batch QC Report

Prep(s): 5030B — Test(s): 8260B
Method Blank — **Water** — **QC Batch # 2005/03/16-01.07**
MB: 2005/03/16-01.07-003 — Date Extracted: 03/16/2005 16:55

Compound	Conc.	RL	Unit	Analyzed	Flag
Benzene	ND	0.5	ug/L	03/16/2005 16:55	
Toluene	ND	0.5	ug/L	03/16/2005 16:55	
Ethylbenzene	ND	0.5	ug/L	03/16/2005 16:55	
Total xylenes	ND	1.0	ug/L	03/16/2005 16:55	
Surrogates(s)					
1,2-Dichloroethane-d4	122.8	73-130	%	03/16/2005 16:55	
Toluene-d8	117.6	81-114	%	03/16/2005 16:55	S7

SEVERN TRENT STL

Submission: 2005-03-0106

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 # 5487

Received: 03/02/2005 16:00

Site: 28250 Hesperian Blvd. Hayward

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Water** — **QC Batch # 2005/03/16-1A.65**

MB: 2005/03/16-1A.65-047 — Date Extracted: 03/16/2005 08:47

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	03/16/2005 08:47	
Benzene	ND	0.5	ug/L	03/16/2005 08:47	
Toluene	ND	0.5	ug/L	03/16/2005 08:47	
Ethylbenzene	ND	0.5	ug/L	03/16/2005 08:47	
Total xylenes	ND	1.0	ug/L	03/16/2005 08:47	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	03/16/2005 08:47	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	03/16/2005 08:47	
Di-isopropyl Ether (DIPE)	ND	0.5	ug/L	03/16/2005 08:47	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	03/16/2005 08:47	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	03/16/2005 08:47	
1,2-DCA	ND	0.5	ug/L	03/16/2005 08:47	
EDB	ND	0.5	ug/L	03/16/2005 08:47	
Ethanol	ND	50	ug/L	03/16/2005 08:47	
Surrogates(s)					
1,2-Dichloroethane-d4	120.4	73-130	%	03/16/2005 08:47	
Toluene-d8	105.6	81-114	%	03/16/2005 08:47	

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 # 5487

Received: 03/02/2005 16:00

Site: 28250 Hesperian Blvd. Hayward

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Water** — **QC Batch # 2005/03/16-2D.65**

MB: 2005/03/16-2D.65-008 — Date Extracted: 03/16/2005 19:08

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	03/16/2005 19:08	
Benzene	ND	0.5	ug/L	03/16/2005 19:08	
Toluene	ND	0.5	ug/L	03/16/2005 19:08	
Ethylbenzene	ND	0.5	ug/L	03/16/2005 19:08	
Total xylenes	ND	1.0	ug/L	03/16/2005 19:08	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	03/16/2005 19:08	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	03/16/2005 19:08	
Di-isopropyl Ether (DiPE)	ND	0.5	ug/L	03/16/2005 19:08	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	03/16/2005 19:08	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	03/16/2005 19:08	
1,2-DCA	ND	0.5	ug/L	03/16/2005 19:08	
EDB	ND	0.5	ug/L	03/16/2005 19:08	
Ethanol	ND	50	ug/L	03/16/2005 19:08	
Surrogates(s)					
1,2-Dichloroethane-d4	125.8	73-130	%	03/16/2005 19:08	
Toluene-d8	108.2	81-114	%	03/16/2005 19:08	

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 # 5487

Received: 03/02/2005 16:00

Site: 28250 Hesperian Blvd. Hayward

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike | **Water** | **QC Batch # 2005/03/15-1A.65**

LCS 2005/03/15-1A.65-025 | Extracted: 03/15/2005 | Analyzed: 03/15/2005 07:25

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	24.8		25	99.2			65-165	20		
Benzene	24.6		25	98.4			69-129	20		
Toluene	26.4		25	105.6			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	496		500	99.2			73-130			
Toluene-d8	547		500	109.4			81-114			

SEVERN TRENT STL

Submission: 2005-03-0106

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 # 5487

Received: 03/02/2005 16:00

Site: 28250 Hesperian Blvd. Hayward

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2005/03/16-01.07**

LCS 2005/03/16-01.07-002 Extracted: 03/16/2005 Analyzed: 03/16/2005 16:24
LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	22.1		20.0	110.5			69-129	20		
Toluene	22.4		20.0	112.0			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	609		500	121.8			73-130			
Toluene-d8	587		500	117.4			81-114		S7	

SEVERN TRENT STL

Submission: 2005-03-0106

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 # 5487

Received: 03/02/2005 16:00

Site: 28250 Hesperian Blvd. Hayward

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2005/03/16-1A.65**

LCS 2005/03/16-1A.65-020 Extracted: 03/16/2005 Analyzed: 03/16/2005 08:20

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	24.2		25	96.8			65-165	20		
Benzene	26.5		25	106.0			69-129	20		
Toluene	27.9		25	111.6			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	476		500	95.2			73-130			
Toluene-d8	537		500	107.4			81-114			

SEVERN TRENT STL

Submission: 2005-03-0106

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 # 5487

Received: 03/02/2005 16:00

Site: 28250 Hesperian Blvd. Hayward

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2005/03/16-2D.65**

LCS 2005/03/16-2D.65-044 Extracted: 03/16/2005 Analyzed: 03/16/2005 18:44

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	25.7		25	102.8			65-165	20		
Benzene	26.9		25	108.0			69-129	20		
Toluene	28.3		25	113.2			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	496		500	99.2			73-130			
Toluene-d8	545		500	109.0			81-114			

SEVERN TRENT STL

Submission: 2005-03-0106

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 # 5487

Received: 03/02/2005 16:00

Site: 28250 Hesperian Blvd. Hayward

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Matrix Spike (MS / MSD) — **Water** — **QC Batch # 2005/03/15-1A.65**

MW-7 >> MS — Lab ID: 2005-03-0106 - 002

MS: 2005/03/15-1A.65-017 — Extracted: 03/15/2005 — Analyzed: 03/15/2005 09:17 — Dilution: 1.00

MSD: 2005/03/15-1A.65-043 — Extracted: 03/15/2005 — Analyzed: 03/15/2005 09:43 — Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	153	145	121	25	128.0	96.0	28.6	65-165	20		R1
Benzene	30.5	26.6	ND	25	122.0	106.4	13.7	69-129	20		
Toluene	31.0	27.8	ND	25	124.0	111.2	10.9	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	457	452		500	91.4	90.4		73-130			
Toluene-d8	478	473		500	95.6	94.6		81-114			

SEVERN TRENT STL

Submission: 2005-03-0106

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 # 5487

Received: 03/02/2005 16:00

Site: 28250 Hesperian Blvd. Hayward

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Matrix Spike (MS / MSD) — **Water** — **QC Batch # 2005/03/16-01.07**

MS/MSD — Lab ID: 2005-03-0143 - 009

MS: 2005/03/16-01.07-005 — Extracted: 03/16/2005 — Analyzed: 03/16/2005 18:41 — Dilution: 1.00

MSD: 2005/03/16-01.07-006 — Extracted: 03/16/2005 — Analyzed: 03/16/2005 19:12 — Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	24.1	25.2	ND	25.0	96.4	100.8	4.5	69-129	20		
Toluene	23.2	24.4	ND	25.0	92.8	97.6	5.0	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	630	630		500	126.0	125.9		73-130			
Toluene-d8	590	587		500	118.0	117.4		81-114		S7	S7

SEVERN TRENT STL

Submission: 2005-03-0106

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 # 5487

Received: 03/02/2005 16:00

Site: 28250 Hesperian Blvd. Hayward

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Matrix Spike (MS / MSD) — **Water** — **QC Batch # 2005/03/16-1A.65**

MS/MSD — Lab ID: 2005-03-0189 - 001

MS: 2005/03/16-1A.65-008 — Extracted: 03/16/2005 — Analyzed: 03/16/2005 10:08 — Dilution: 1.00

MSD: 2005/03/16-1A.65-035 — Extracted: 03/16/2005 — Analyzed: 03/16/2005 10:35 — Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	22.1	25.5	ND	25	88.4	102.0	14.3	65-165	20		
Benzene	23.4	24.1	ND	25	93.6	96.4	2.9	69-129	20		
Toluene	24.8	25.7	ND	25	99.2	102.8	3.6	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	506	488		500	101.2	97.6		73-130			
Toluene-d8	534	522		500	106.8	104.4		81-114			

SEVERN TRENT STL

Submission: 2005-03-0106

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 # 5487

Received: 03/02/2005 16:00

Site: 28250 Hesperian Blvd. Hayward

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Matrix Spike (MS / MSD) — **Water** — **QC Batch # 2005/03/16-2D.65**

MS/MSD — Lab ID: 2005-03-0239 - 003

MS: 2005/03/16-2D.65-040 — Extracted: 03/16/2005 — Analyzed: 03/16/2005 22:40 — Dilution: 1.00

MSD: 2005/03/16-2D.65-006 — Extracted: 03/16/2005 — Analyzed: 03/16/2005 23:06 — Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	33.0	28.1	2.54	25	121.8	102.2	17.5	65-165	20		
Benzene	29.7	27.6	ND	25	118.8	110.4	7.3	69-129	20		
Toluene	30.9	28.6	ND	25	123.6	114.4	7.7	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	513	490		500	102.6	98.0		73-130			
Toluene-d8	546	541		500	109.2	108.2		81-114			

SEVERN TRENT STL

Submission: 2005-03-0106

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 # 5487

Received: 03/02/2005 16:00

Site: 28250 Hesperian Blvd. Hayward

Legend and Notes

Sample Comment

Lab ID: 2005-03-0106 -2

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 58 ug/L

Analysis Flag

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.

R1

Analyte RPD was out of QC limits.

S7

Surrogate recoveries higher than acceptance limits.

102566

ConocoPhillips Chain Of Custody Record

STL-San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
(925) 484-1919 (925) 484-1096 fax

ConocoPhillips Site Manager:

INVOICE REMITTANCE ADDRESS: CONOCOPHILLIPS, Attn: Dee Hutchinson, 3611 South Harbor, Suite 200, Santa Ana, CA. 92704

2005-03-0106

ConocoPhillips Work Order Number: 1423TRC501

ConocoPhillips Cost Object:

DATE: 030205

PAGE: 1 of 1

SAMPLING COMPANY: TRC	Valid Value ID:
CONOCOPHILLIPS SITE NUMBER: 5487	GLOBAL ID NO.: T0600101462
ADDRESS: 21 Technology Drive, Irvine CA 92618	SITE ADDRESS (Street and City): 22350 Mission Blvd, Hayward
CONOCOPHILLIPS SITE MANAGER: Shelby Lathrop	
PROJECT CONTACT (Hardcopy or PDF Report to): Anju Farfan	EDF DELIVERABLE TO (RP or Designee): Peter Thomson, TRC, pthomson@trcsolutions.com
PHONE NO.: 949-341-7408	E-MAIL:
TELEPHONE: 949-341-7440	FAX: 949-753-0111
E-MAIL: afarfan@trcsolutions.com	LAB USE ONLY
SAMPLER NAME(S) (Print): [illegible]	CONSULTANT PROJECT NUMBER: 41050001/FA20

TURNAROUND TIME (CALENDAR DAYS): ☐ 14 DAYS ☐ 7 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED ☑

* Field Point name only required if different from Sample ID

REQUESTED ANALYSES

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	8015m - TPHd Extractable	8260B - TPHg/BTEX/MTBE	8260B - TPHg / BTEX / 8 Oxygenates	8260B - TPHg / BTEX / 8 oxygenates + methanol (8015M)	8260B - Full Scan VOCs (does not include oxygenates)	8270C - Semi-Volatiles	8015M / 8021B - TPHg/BTEX/MTBE	Lead ☐Total ☐STLC ☐TCLP	TPH by 8260B	BTEX / MTBE by 8260B	Ethanol by 8260B	EDB by 8260B	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
	MW-5	030205	0555	GW	3									X	X	X		3 VOA w/ HCL
	MW-7	↓	0745	↓	↓									X	X	X		↓
	MW-6	↓	1009	↓	↓									X	X		X	↓

TEMPERATURE ON RECEIPT C°: 2° C

Relinquished by (Signature)	Received by (Signature)	Date	Time
[signature]	[signature]	030205	1300
[signature]	[signature]	3-2-05	1400
[signature]	[signature]	3-2-05	1600

01/01/03 Revision

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.