TRC

Customer-Focused Solutions

August 29, 2005

Delta Environmental Consultants, Inc.
911 S. Primrose Avenue, Suite K
Monrovia, CA 91016

ATTN: MR. JOHN NORDENSTAM

SITE: FORMER 76 STATION 0353
200 SOUTH CENTRAL AVENUE
GLENDALE, CALIFORNIA

RE: QUARTERLY MONITORING REPORT
JULY THROUGH SEPTEMBER 2005

Dear Mr. Nordenstam:

Please find enclosed our Quarterly Monitoring Report for Former 76 Station 0353, located at 200 South Central Avenue, Glendale, California. If you have any questions regarding this report, please call us at (949) 753-0101.

Sincerely,

TRC

Anju Farfan for
QMS Operations Manager

Enclosures
20-0400/0353R02.QMS

21 Technology Drive • Irvine, California 92618
Telephone 949-727-9336 • Fax 949-727-7399

TRC

Customer-Focused Solutions

QUARTERLY MONITORING REPORT
JULY THROUGH SEPTEMBER 2005

FORMER 76 STATION 0353
200 South Central Avenue
Los Angeles, California

Prepared For:

Ms. Shari London
CONOCOPHILLIPS COMPANY
3611 Harbor Boulevard Suite 200
Santa Ana, California 92704

By:

CERTIFIED ENGINEERING GEOLOGIST
DENNIS E. JENSEN
No. EG 1034
Exp. 4/07
STATE OF CALIFORNIA

Senior Project Geologist, Irvine Operations
August 26, 2005

21 Technology Drive • Irvine, California 92618
Telephone 949-727-9336 • Fax 949-727-7399

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
Disposal Documents	Disposal/Treatment Manifests – Current
Statement	Limitations

Summary of Gauging and Sampling Activities
July 2005 through September 2005
Former 76 Station 0353
200 South Central Avenue
Glendale, CA

Project Coordinator: **Shari London**
Telephone: **714-428-7720**
Water Sampling Contractor: ***TRC***
Compiled by: **Alma Montaño**
Date(s) of Gauging/Sampling Event: **07/05/05**

Sample Points

Groundwater wells: **4** onsite, **5** offsite Wells gauged: **9** Wells sampled: **9**
Purging method: **Submersible pump**
Purge water disposal: **Crosby and Overton treatment facility**
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: **99 feet** Maximum: **101.29 feet**
Average groundwater elevation (relative to available local datum): **417.16 feet**
Average change in groundwater elevation since previous event: **0.67 feet**
Interpreted groundwater gradient and flow direction:
Current event: **0.01 ft/ft, west**
Previous event: **0.01 ft/ft, southwest (05/09/05)**

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** **0**
Wells with **MTBE** **5** Maximum: **2.6 µg/l (MW-3)**

Notes:

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.

TABLES

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.

REFERENCE

TRC began groundwater monitoring and sampling for Former 76 Station 0353 in January 2005. Historical data compiled prior to that time were provided by EP Associates.

Table 1

SUMMARY OF GROUNDWATER LEVELS AND CHEMICAL ANALYSIS RESULTS

July 5, 2005

Former 76 Station 0353

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)	TBA 8260B (µg/l)	Comments
MW-1		**(Screen Interval in feet: 90-128)**													
07/05/05	518.79	101.29	0.00	417.50	0.56	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	ND<2.0	ND<10	
MW-2		**(Screen Interval in feet: 90-119)**													
07/05/05	518.18	101.08	0.00	417.10	0.50	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	ND<2.0	ND<10	
MW-3		**(Screen Interval in feet: 90-119)**													
07/05/05	517.76	100.42	0.00	417.34	0.53	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	2.6	ND<10	
MW-4		**(Screen Interval in feet: 80-119)**													
07/05/05	517.31	99.85	0.00	417.46	0.45	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	0.20J	ND<10	
MW-5		**(Screen Interval in feet: 90-119)**													
07/05/05	516.85	99.33	0.00	417.52	0.57	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	0.23J	ND<10	
MW-6		**(Screen Interval in feet: DNA)**													
07/05/05	517.32	99.62	0.00	417.70	1.41	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	1.2J	ND<10	
MW-7		**(Screen Interval in feet: 90-120)**													
07/05/05	516.78	100.08	0.00	416.70	0.67	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	ND<2.0	ND<10	
MW-8		**(Screen Interval in feet: 90-119)**													
07/05/05	516.14	99.51	0.00	416.63	0.64	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	0.20J	ND<10	
MW-9		**(Screen Interval in feet: DNA)**													
07/05/05	515.50	99.00	0.00	416.50	0.68	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	ND<2.0	ND<10	

Table 2

HISTORIC GROUNDWATER LEVELS AND CHEMICAL ANALYSIS RESULTS

September 2004 Through July 2005

Former 76 Station 0353

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (mg/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)	TBA 8260B (µg/l)	Comments
MW-1	**(Screen Interval in feet: 90-128)**														
09/02/04	--	--	--	--	--	0.019	--	ND<1.0	ND<1.0	ND<1.0	ND<3.0	--	27.7	ND<50	
09/10/04	518.79	102.70	0.00	416.09	--	--	--	--	--	--	--	--	--	--	
01/04/05	518.79	103.02	0.00	415.77	-0.32	ND<0.010	--	ND<1.0	ND<1.0	ND<1.0	ND<3.0	--	ND<1.0	ND<50	
05/09/05	518.79	101.85	0.00	416.94	1.17	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	0.23J	ND<50	
07/05/05	518.79	101.29	0.00	417.50	0.56	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	ND<2.0	ND<10	
MW-2	**(Screen Interval in feet: 90-119)**														
09/02/04	--	--	--	--	--	0.013	--	ND<1.0	ND<1.0	ND<1.0	ND<3.0	--	14.9	ND<50	
09/10/04	518.18	102.30	0.00	415.88	--	--	--	--	--	--	--	--	--	--	
01/04/05	518.18	102.59	0.00	415.59	-0.29	ND<0.010	--	ND<1.0	ND<1.0	ND<1.0	ND<3.0	--	ND<1.0	ND<50	
05/09/05	518.18	101.58	0.00	416.60	1.01	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	0.57J	ND<50	
07/05/05	518.18	101.08	0.00	417.10	0.50	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	ND<2.0	ND<10	
MW-3	**(Screen Interval in feet: 90-119)**														
09/02/04	--	--	--	--	--	0.185	--	2.6	ND<1.0	0.5J	ND<3.0	--	217	ND<50	
09/10/04	517.76	101.86	0.00	415.90	--	--	--	--	--	--	--	--	--	--	
01/04/05	517.76	102.15	0.00	415.61	-0.29	ND<0.010	--	ND<1.0	ND<1.0	ND<1.0	ND<3.0	--	18.7	ND<50	
05/09/05	517.76	100.95	0.00	416.81	1.20	--	32J	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	21	ND<50	
07/05/05	517.76	100.42	0.00	417.34	0.53	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	2.6	ND<10	
MW-4	**(Screen Interval in feet: 80-119)**														
09/02/04	--	--	--	--	--	0.033	--	ND<1.0	ND<1.0	ND<1.0	ND<3.0	--	44.5	ND<50	
09/10/04	517.31	102.20	0.00	415.11	--	--	--	--	--	--	--	--	--	--	
01/04/05	517.31	101.51	0.00	415.80	0.69	ND<0.010	--	ND<1.0	ND<1.0	ND<1.0	ND<3.0	--	ND<1.0	ND<50	
05/09/05	517.31	100.30	0.00	417.01	1.21	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	0.32J	ND<50	
07/05/05	517.31	99.85	0.00	417.46	0.45	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	0.20J	ND<10	
MW-5	**(Screen Interval in feet: 90-119)**														

Table 2

HISTORIC GROUNDWATER LEVELS AND CHEMICAL ANALYSIS RESULTS

September 2004 Through July 2005

Former 76 Station 0353

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (mg/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)	TBA 8260B (µg/l)	Comments
MW-5 continued															
09/02/04	--	--	--	--	--	ND<0.010	--	ND<1.0	ND<1.0	ND<1.0	ND<3.0	--	ND<1.0	ND<50	
09/10/04	516.85	100.63	0.00	416.22	--	--	--	--	--	--	--	--	--	--	
01/04/05	516.85	100.93	0.00	415.92	-0.30	ND<0.010	--	ND<1.0	ND<1.0	ND<1.0	ND<3.0	--	ND<1.0	ND<50	
05/09/05	516.85	99.90	0.00	416.95	1.03	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	0.16J	ND<50	
07/05/05	516.85	99.33	0.00	417.52	0.57	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	0.23J	ND<10	
MW-6	**(Screen Interval in feet: DNA)**														
09/10/04	517.32	102.17	0.00	415.15	--	--	--	--	--	--	--	--	--	--	
01/04/05	517.32	102.17	0.00	415.15	0.00	ND<0.010	--	ND<1.0	ND<1.0	ND<1.0	ND<3.0	--	8.0	ND<50	
05/09/05	517.32	101.03	0.00	416.29	1.14	--	92	2.5	3.6	3.5	11	--	ND<2.0	ND<50	
07/05/05	517.32	99.62	0.00	417.70	1.41	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	1.2J	ND<10	
MW-7	**(Screen Interval in feet: 90-120)**														
09/10/04	516.78	101.92	0.00	414.86	--	--	--	--	--	--	--	--	--	--	
01/04/05	516.78	101.92	0.00	414.86	0.00	ND<0.010	--	ND<1.0	ND<1.0	ND<1.0	ND<3.0	--	2.0	ND<50	
05/09/05	516.78	100.75	0.00	416.03	1.17	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	0.22J	ND<50	
07/05/05	516.78	100.08	0.00	416.70	0.67	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	ND<2.0	ND<10	
MW-8	**(Screen Interval in feet: 90-119)**														
09/10/04	516.14	100.32	0.00	415.82	--	--	--	--	--	--	--	--	--	--	
01/04/05	516.14	100.32	0.00	415.82	0.00	ND<0.010	--	ND<1.0	ND<1.0	ND<1.0	ND<3.0	--	1.2	ND<50	
05/09/05	516.14	100.15	0.00	415.99	0.17	--	89	4.1	3.3	0.65J	14	--	0.16J	ND<50	
07/05/05	516.14	99.51	0.00	416.63	0.64	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	0.20J	ND<10	
MW-9	**(Screen Interval in feet: DNA)**														
09/10/04	515.50	100.82	0.00	414.68	--	--	--	--	--	--	--	--	--	--	
01/04/05	515.50	100.82	0.00	414.68	0.00	ND<0.010	--	ND<1.0	ND<1.0	ND<1.0	ND<3.0	--	ND<1.0	ND<50	
05/09/05	515.50	99.68	0.00	415.82	1.14	--	85	2.5	3.6	3.3	10	--	ND<2.0	ND<50	

Table 2
HISTORIC GROUNDWATER LEVELS AND CHEMICAL ANALYSIS RESULTS
September 2004 Through July 2005
Former 76 Station 0353

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (mg/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)	TBA 8260B (µg/l)	Comments
MW-9 continued															
07/05/05	515.50	99.00	0.00	416.50	0.68	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	ND<2.0	ND<10	

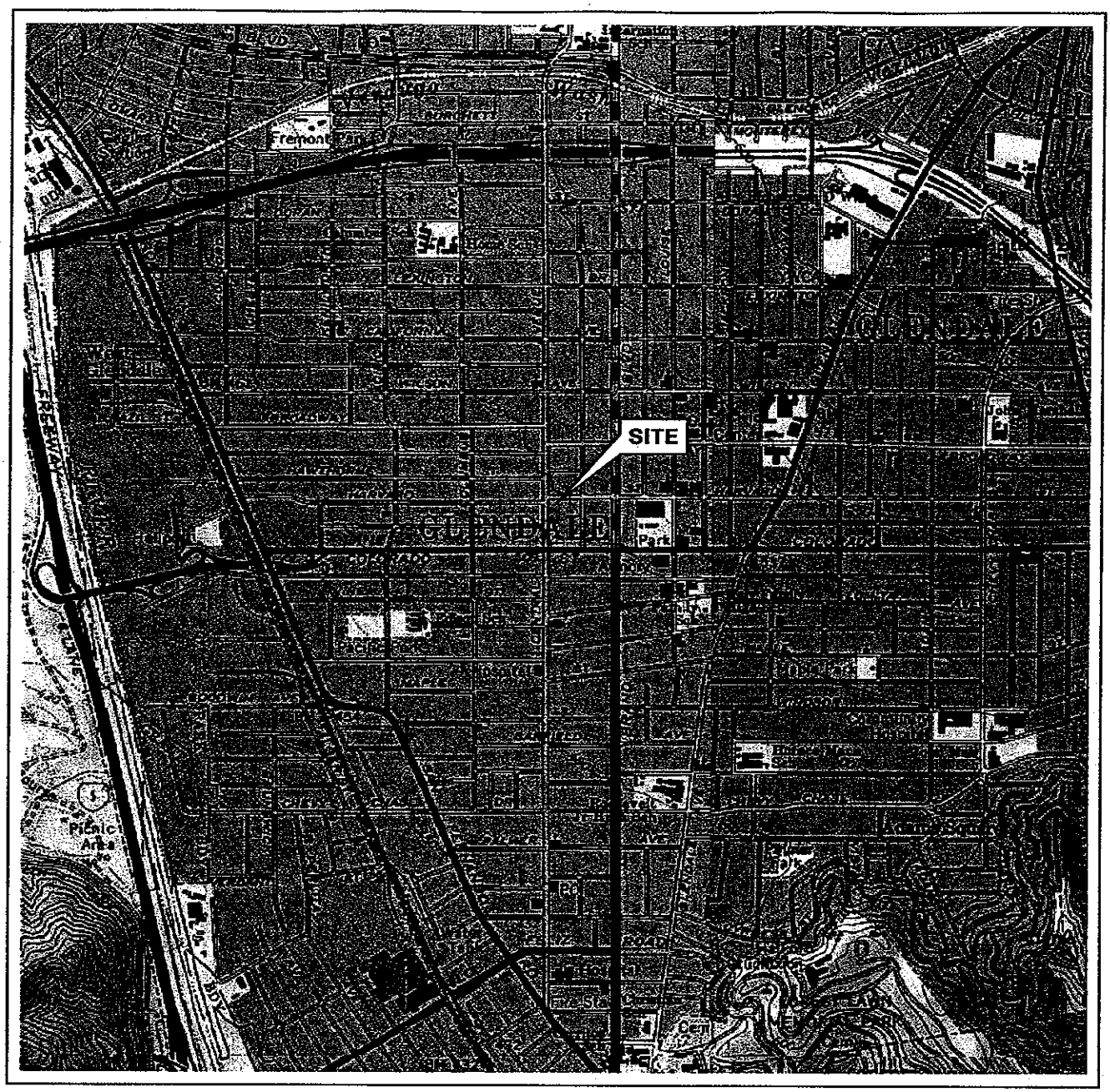
Table 3
ADDITIONAL ANALYTICAL RESULTS
Former 76 Station 0353

Date Sampled	Pre-Purge DO	NO3	Sulfate	Alka-linity	TAME 8260B	DIPE 8260B	ETBE 8260B	Fe+2	Ethanol 8260B	Ferric Iron	D-Manganese	Pre-Purge ORP
	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mV)
MW-1												
09/02/04	--	--	--	--	ND<1.0	ND<1.0	ND<1.0	--	ND<500	--	--	--
01/04/05	--	--	--	--	ND<1.0	ND<1.0	ND<1.0	--	ND<1000	--	--	--
05/09/05	--	--	--	--	ND<2.0	ND<2.0	ND<2.0	--	ND<1000	--	--	--
07/05/05	--	--	--	--	ND<2.0	ND<2.0	ND<2.0	--	ND<1000	--	--	--
MW-2												
09/02/04	--	--	--	--	ND<1.0	ND<1.0	ND<1.0	--	ND<1000	--	--	--
01/04/05	--	--	--	--	ND<1.0	ND<1.0	ND<1.0	--	ND<1000	--	--	--
05/09/05	--	--	--	--	ND<2.0	ND<2.0	ND<2.0	--	ND<1000	--	--	--
07/05/05	--	--	--	--	ND<2.0	ND<2.0	ND<2.0	--	ND<1000	--	--	--
MW-3												
09/02/04	--	--	--	--	ND<1.0	ND<1.0	ND<1.0	--	ND<1000	--	--	--
01/04/05	--	--	--	--	ND<1.0	ND<1.0	ND<1.0	--	ND<1000	--	--	--
05/09/05	--	8.2	150	270	ND<2.0	ND<2.0	ND<2.0	190	ND<1000	--	2.6J	--
07/05/05	6.31	7.8	140	250	ND<2.0	ND<2.0	ND<2.0	120	ND<1000	4900	ND<10	66
MW-4												
09/02/04	--	--	--	--	ND<1.0	ND<1.0	ND<1.0	--	ND<1000	--	--	--
01/04/05	--	--	--	--	ND<1.0	ND<1.0	ND<1.0	--	ND<1000	--	--	--
05/09/05	--	21	130	340	ND<2.0	ND<2.0	ND<2.0	310	ND<1000	--	2.2J	--
07/05/05	4.72	21	130	200	ND<2.0	ND<2.0	ND<2.0	100	ND<1000	20000	ND<10	80
MW-5												
09/02/04	--	--	--	--	ND<1.0	ND<1.0	ND<1.0	--	ND<1000	--	--	--
01/04/05	--	--	--	--	ND<1.0	ND<1.0	ND<1.0	--	ND<1000	--	--	--
05/09/05	--	--	--	--	ND<2.0	ND<2.0	ND<2.0	--	ND<1000	--	--	--
07/05/05	--	--	--	--	ND<2.0	ND<2.0	ND<2.0	--	ND<1000	--	--	--
MW-6												

Table 3
ADDITIONAL ANALYTICAL RESULTS
Former 76 Station 0353

Date Sampled	Pre-Purge DO	NO3	Sulfate	Alka-linity	TAME 8260B	DIPE 8260B	ETBE 8260B	Fe+2	Ethanol 8260B	Ferric Iron	D-Manganese	Pre-Purge ORP
	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mV)
MW-6 continued												
01/04/05	--	--	--	--	ND<1.0	ND<1.0	ND<1.0	--	ND<1000	--	--	--
05/09/05	--	--	--	--	ND<2.0	ND<2.0	ND<2.0	--	ND<1000	--	--	--
07/05/05	--	--	--	--	ND<2.0	ND<2.0	ND<2.0	--	ND<1000	--	--	--
MW-7												
01/04/05	--	--	--	--	ND<1.0	ND<1.0	ND<1.0	--	ND<1000	--	--	--
05/09/05	--	10	170	390	ND<2.0	ND<2.0	ND<2.0	690	ND<1000	--	30	--
07/05/05	6.10	9.7	170	190	ND<2.0	ND<2.0	ND<2.0	110	ND<1000	11000	ND<10	96
MW-8												
01/04/05	--	--	--	--	ND<1.0	ND<1.0	ND<1.0	--	ND<1000	--	--	--
05/09/05	--	--	--	--	ND<2.0	ND<2.0	ND<2.0	--	ND<1000	--	--	--
07/05/05	--	--	--	--	ND<2.0	ND<2.0	ND<2.0	--	ND<1000	--	--	--
MW-9												
01/04/05	--	--	--	--	ND<1.0	ND<1.0	ND<1.0	--	ND<1000	--	--	--
05/09/05	--	--	--	--	ND<2.0	ND<2.0	ND<2.0	--	ND<1000	--	--	--
07/05/05	--	--	--	--	ND<2.0	ND<2.0	ND<2.0	--	ND<1000	--	--	--

FIGURES



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

SCALE 1:24,000

N

SOURCE:

United States Geological Survey
7.5 Minute Topographic Map:
Pasadena Quadrangle

VICINITY MAP

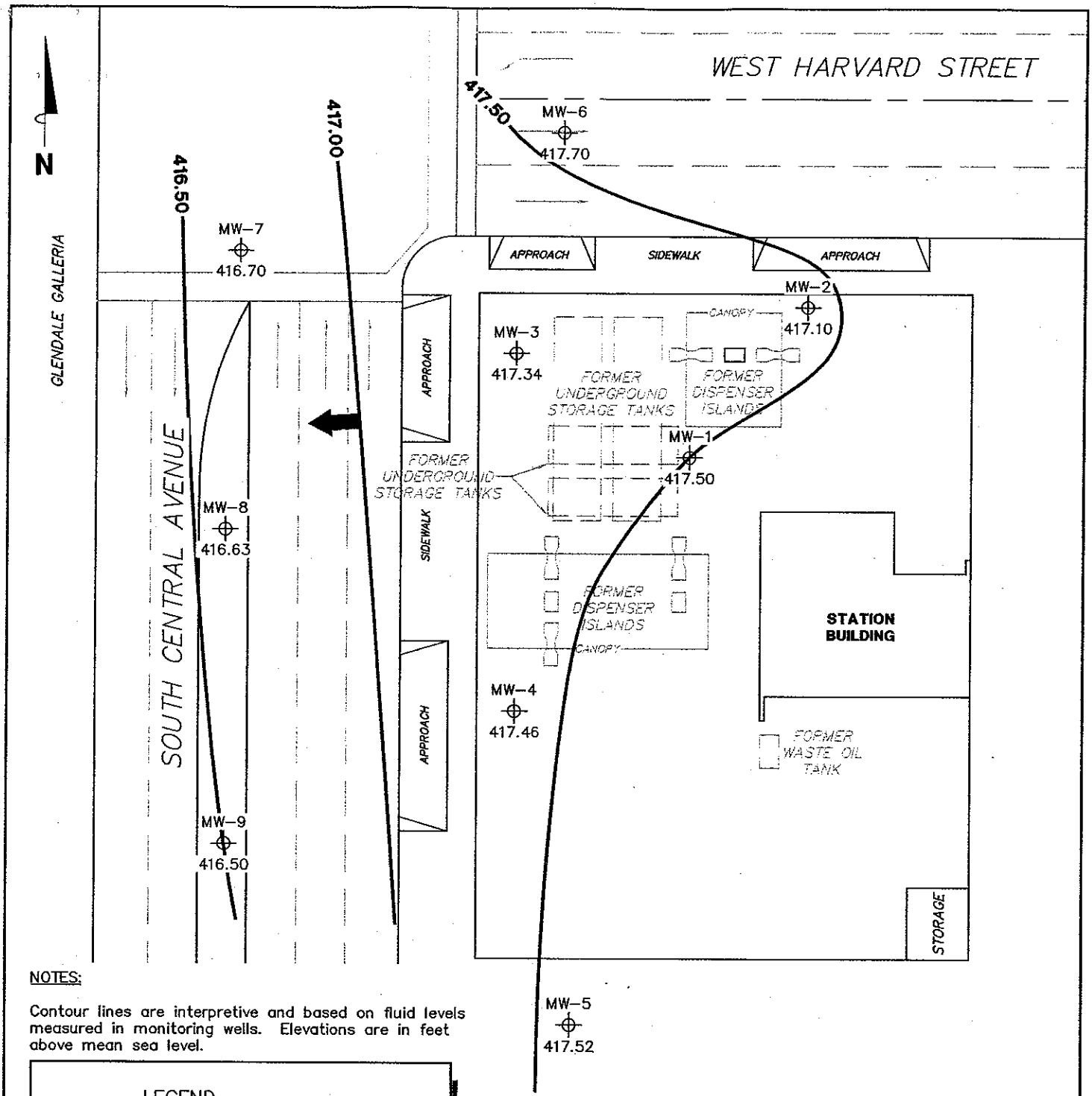
Former 76 Station 0353
200 South Central Avenue
Glendale, California

FIGURE 1

TRC

PS = 1:1

L:\ V I C I N I T Y M A P S\0353VM.dwg Aug 04, 2005 – 1:49pm dlindner



NOTES:

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

LEGEND

MW-9 ⊕ Monitoring Well with Groundwater Elevation (feet)

417.50 — Groundwater Elevation Contour

➡ General Direction of Groundwater Flow

GROUNDWATER ELEVATION CONTOUR MAP
July 5, 2005

Former 76 Station 0353
200 South Central Avenue
Glendale, California

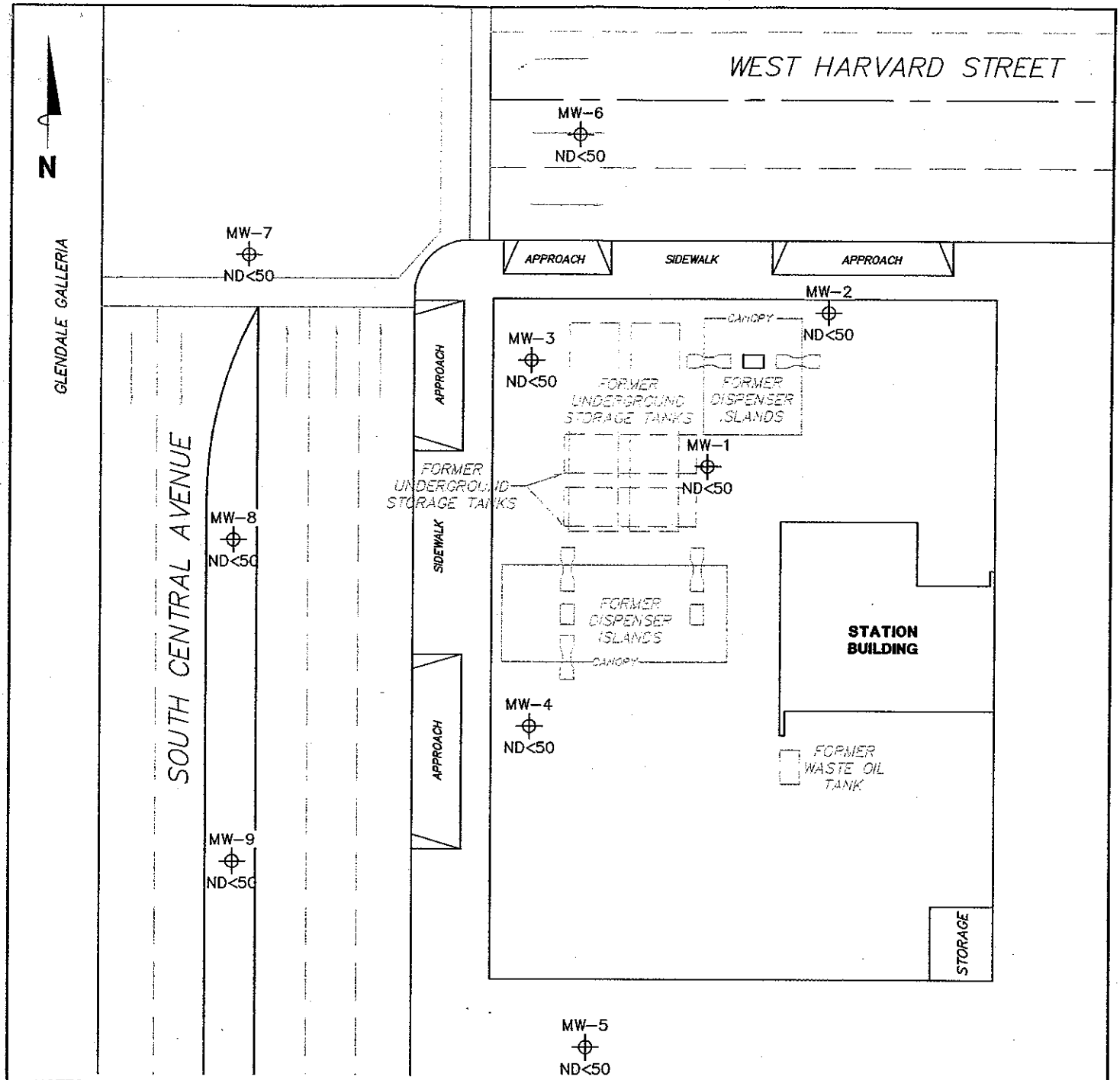
SCALE (FEET)
0 30

TRC

FIGURE 2

PS=1:1 0353-003

L:\Graphics\ProjectsByNumber\20-xxxx\20-0400(UnocalQMS)\x-0000\0353\0353qms.dwg Aug 24, 2005 - 8:26am rhughes



NOTES:

TPPH = total purgeable petroleum hydrocarbons.
µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report.
Results obtained using EPA Method 8260B.

LEGEND

MW-9 ⊕ Monitoring Well with Dissolved-Phase TPPH Concentration (µg/l)

DISSOLVED-PHASE TPPH CONCENTRATION MAP
July 5, 2005

Former 76 Station 0353
200 South Central Avenue
Glendale, California

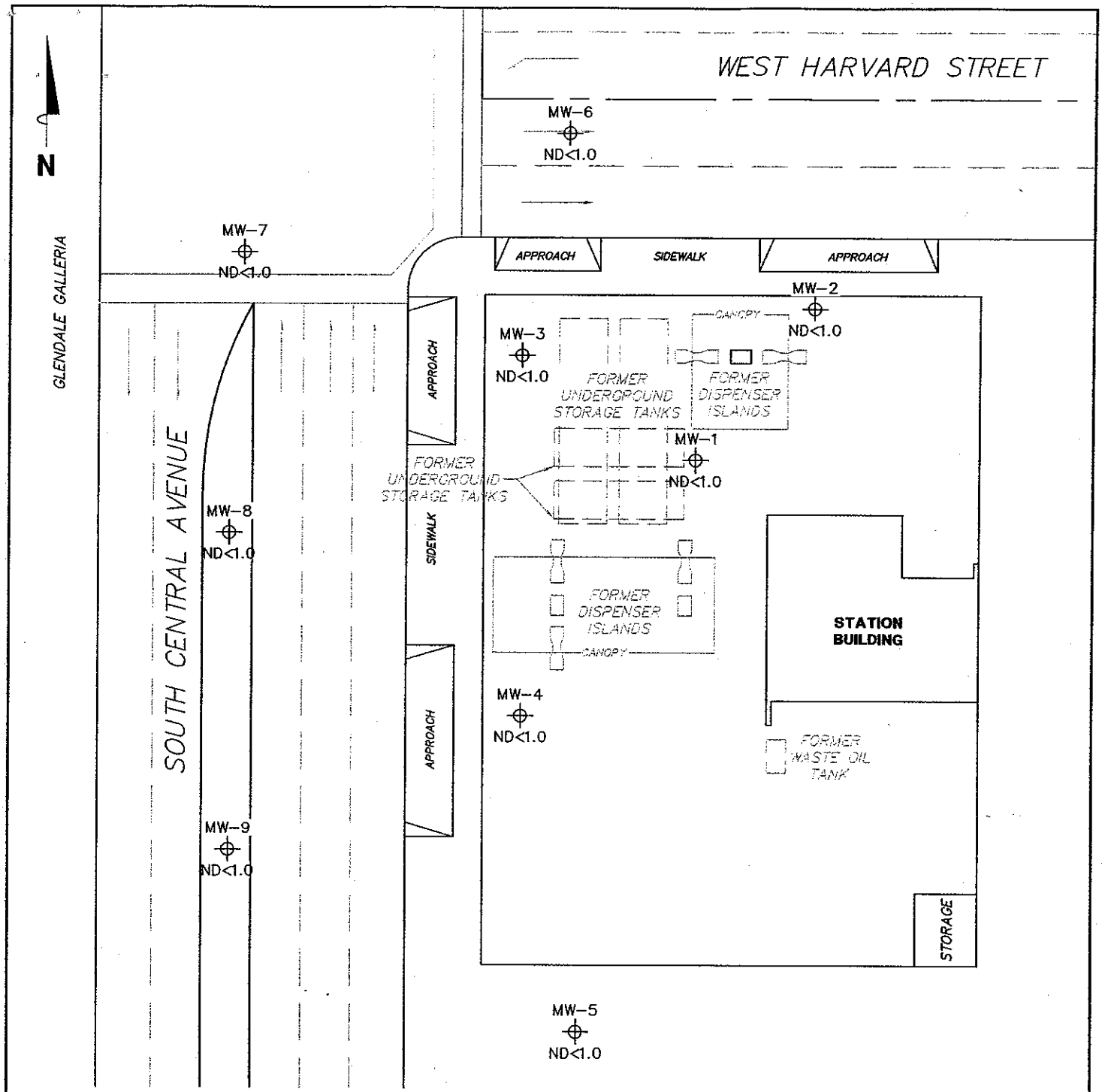
TRC

SCALE (FEET)
0 30

FIGURE 3

PS=1:1 0353-003

L:\Graphics\ProjectsByNumber\20-xxxx\20-0400(UnocalQMS)\x-0000\0353\0353qms.dwg Aug 24, 2005 - 8:26am rhughes



NOTES:

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

LEGEND

MW-9 ⊕ Monitoring Well with Dissolved-Phase Benzene Concentration (µg/l)

DISSOLVED-PHASE BENZENE CONCENTRATION MAP
July 5, 2005

Former 76 Station 0353
200 South Central Avenue
Glendale, California

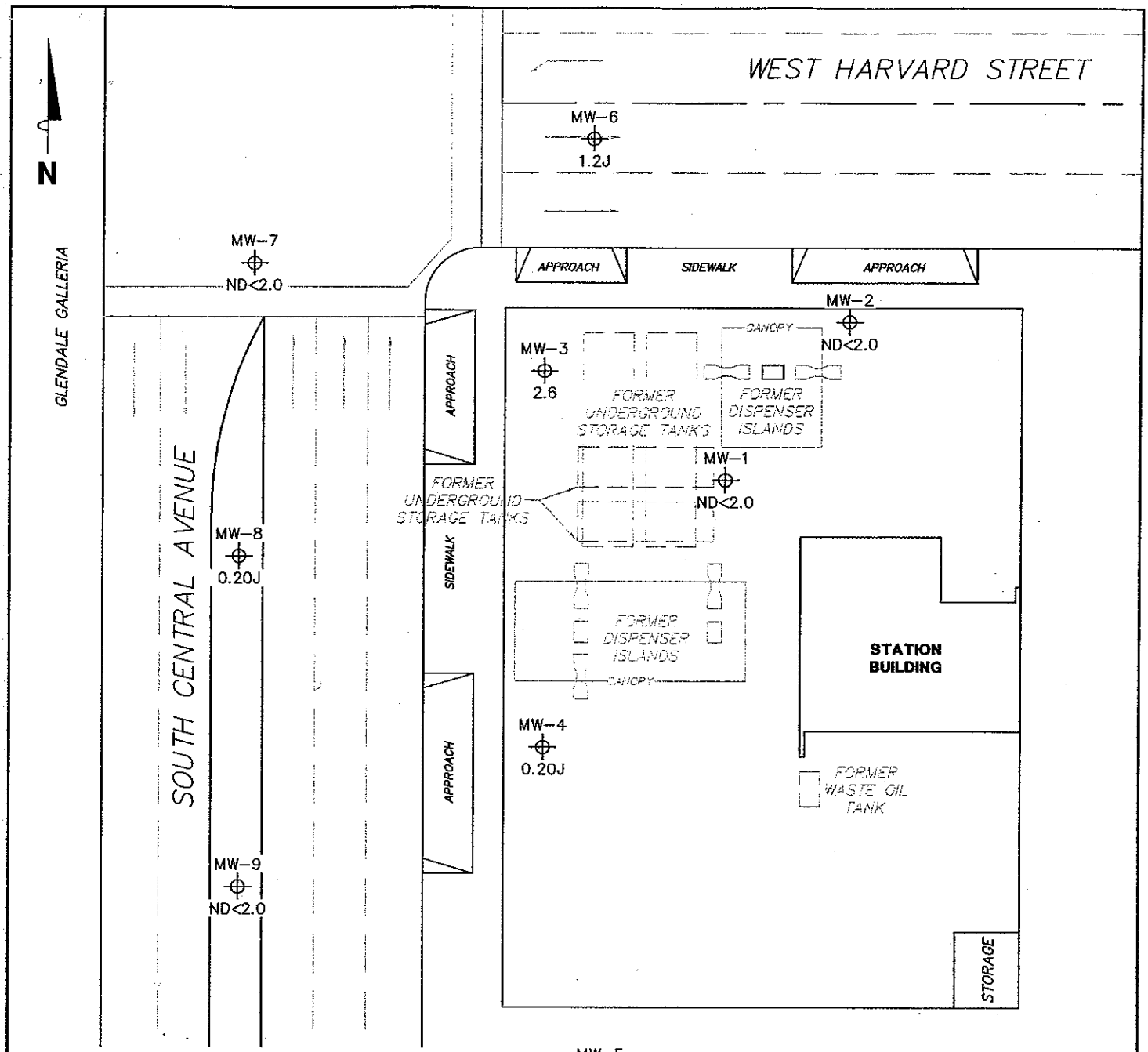
SCALE (FEET)
0 30

TRC

FIGURE 4

PS=1:1 0353-003

L:\Graphics\ProjectsByNumber\20-xxxx\20-0400(UnocalQMS)\x-0000\0353\0353qms.dwg Aug 24, 2005 - 8:26am rhughes



NOTES:

MTBE = methyl tertiary butyl ether.
µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report.
J = estimated concentration, value is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL). Results obtained using EPA Method 8260B.

LEGEND

MW-9 ⊕ Monitoring Well with Dissolved-Phase MTBE Concentration (µg/l)

DISSOLVED-PHASE MTBE CONCENTRATION MAP
July 5, 2005

Former 76 Station 0353
200 South Central Avenue
Glendale, California

TRC

SCALE (FEET)
0 30

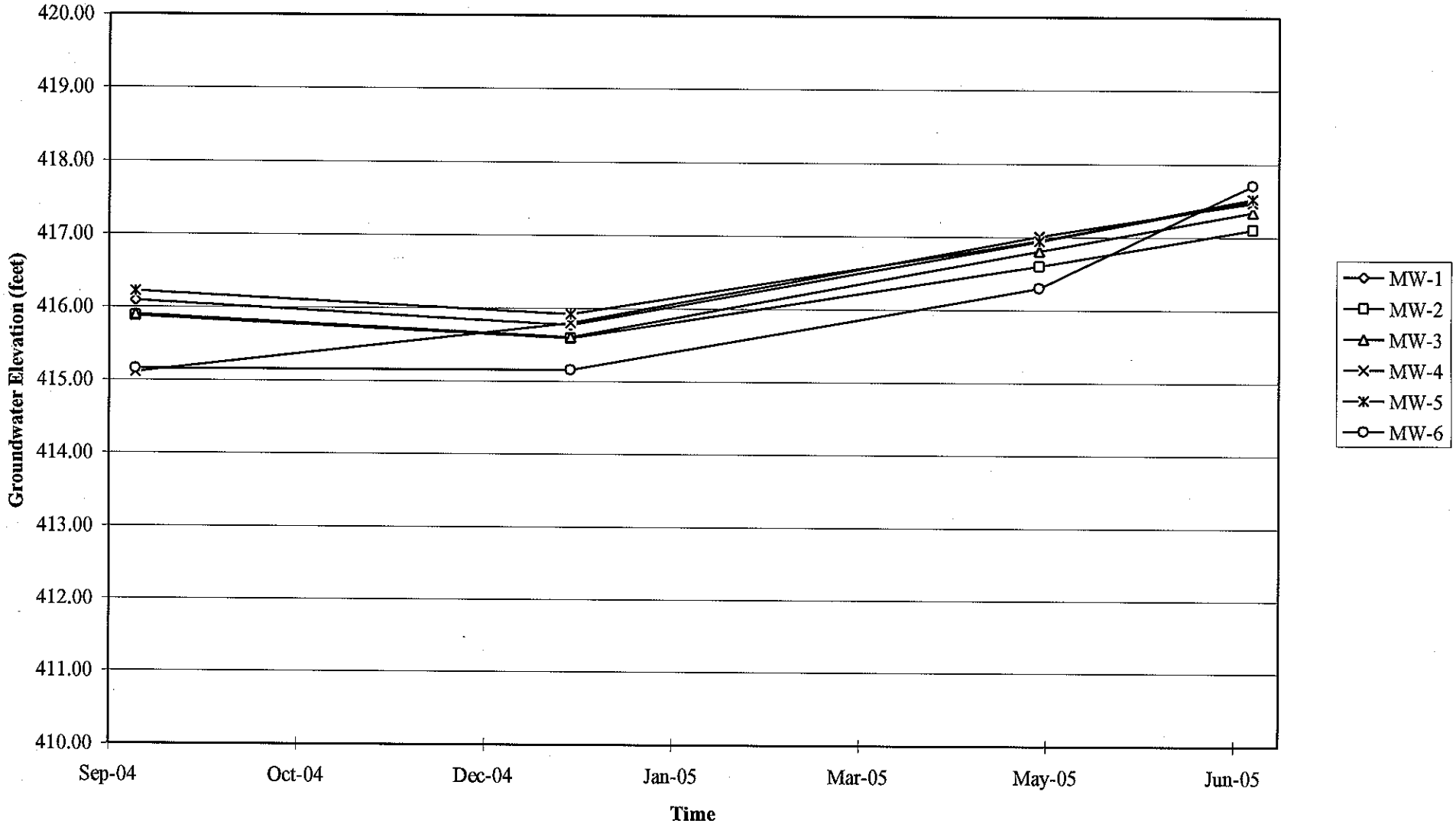
FIGURE 5

PS=1:1 0353-003

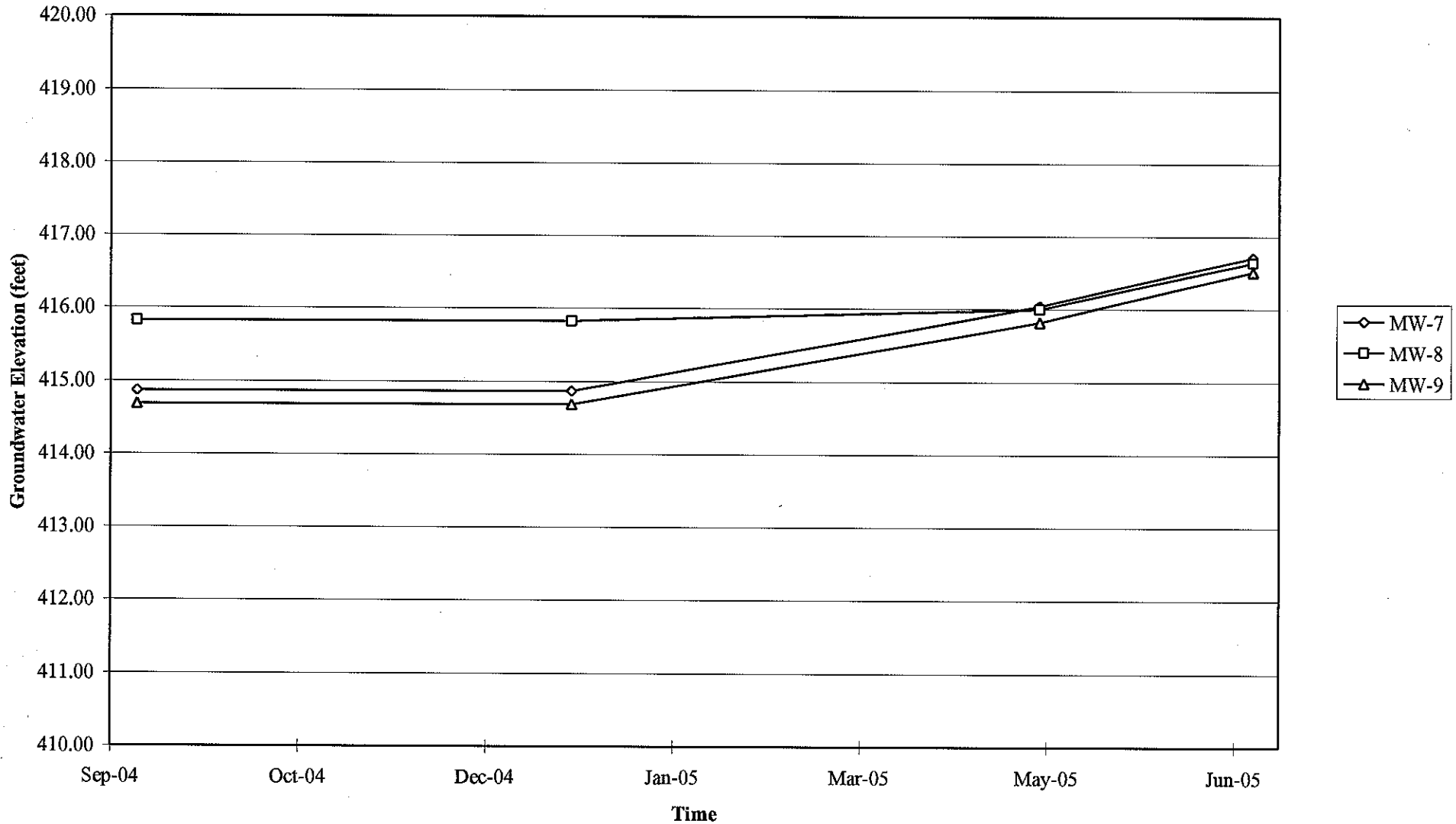
L:\Graphics\ProjectsByNumber\20-xxxx\20-0400(UnocalQMS)\x-0000\0353\0353qms.dwg Aug 24, 2005 - 8:26am rhughes

GRAPHS

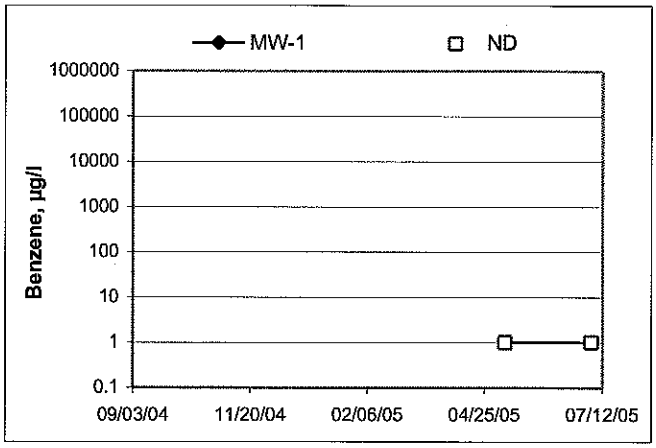
Groundwater Elevations vs. Time
Former 76 Station 0353

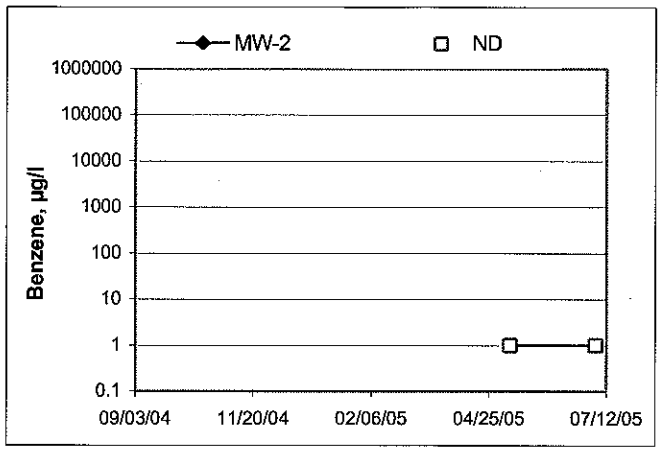


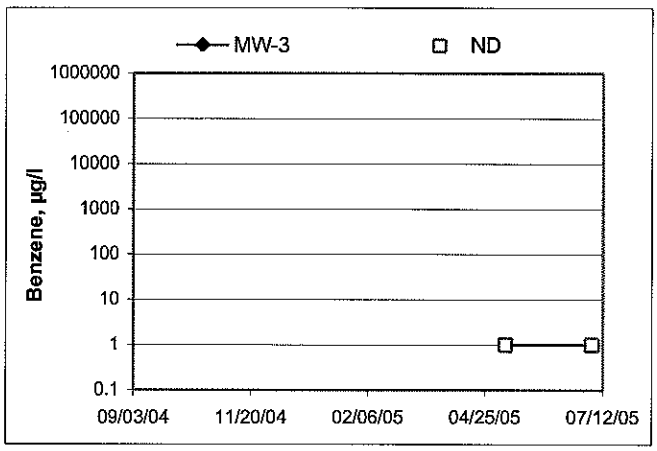
Groundwater Elevations vs. Time
Former 76 Station 0353

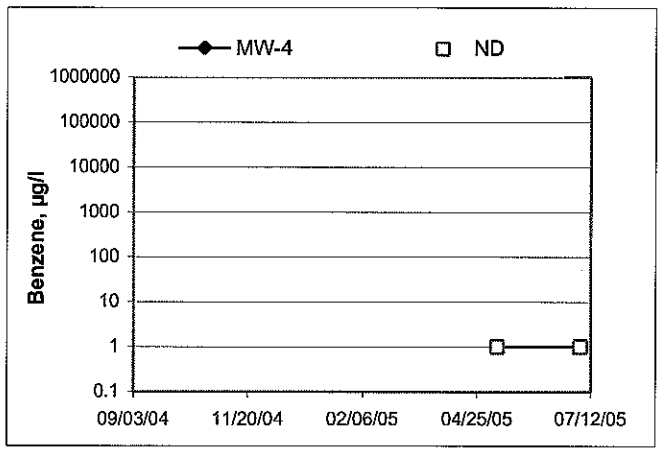


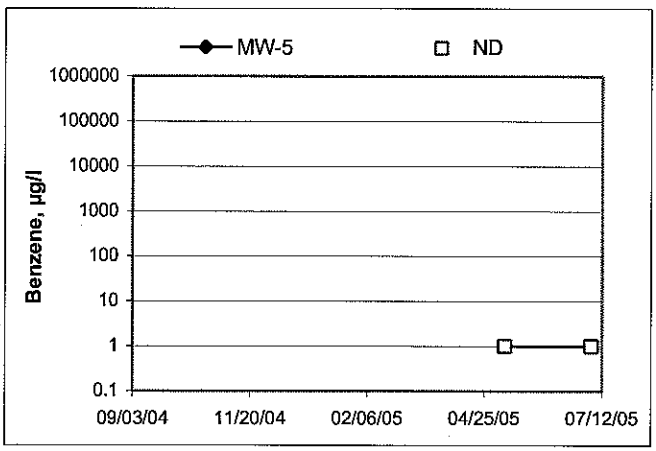
Benzene Concentrations vs Time
Former 76 Station 0353

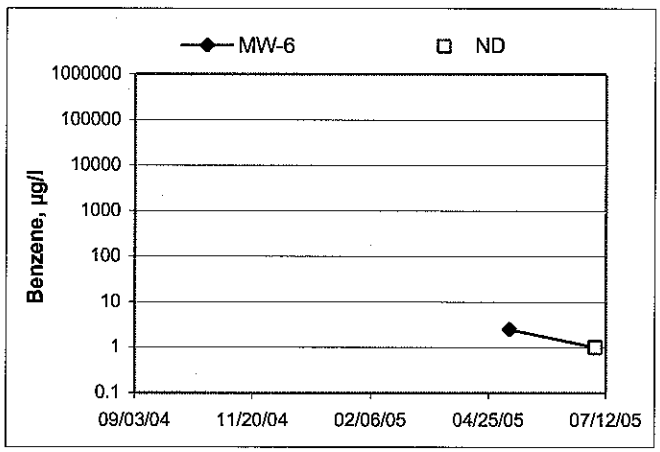


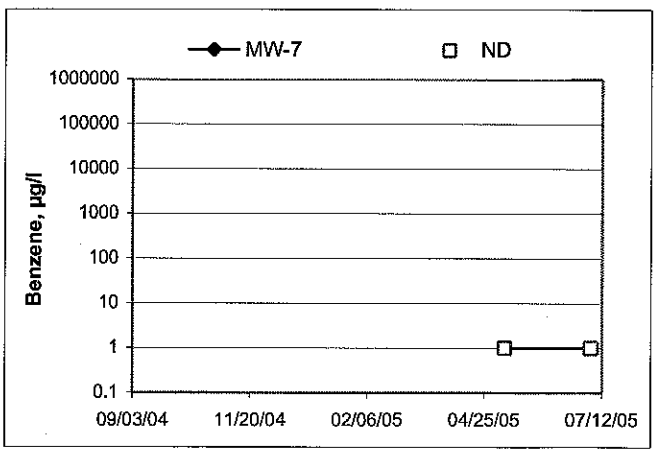


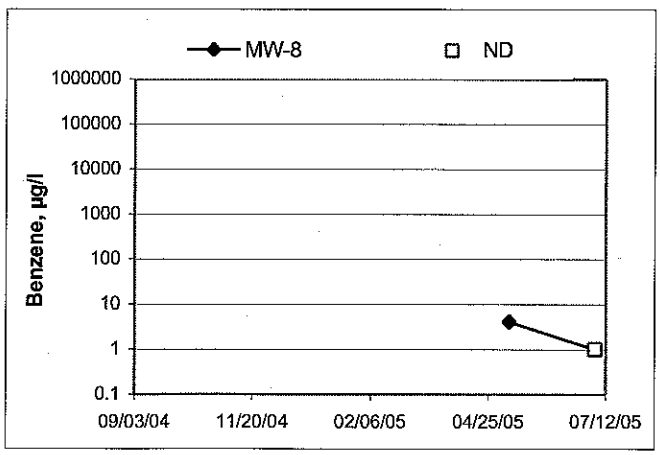




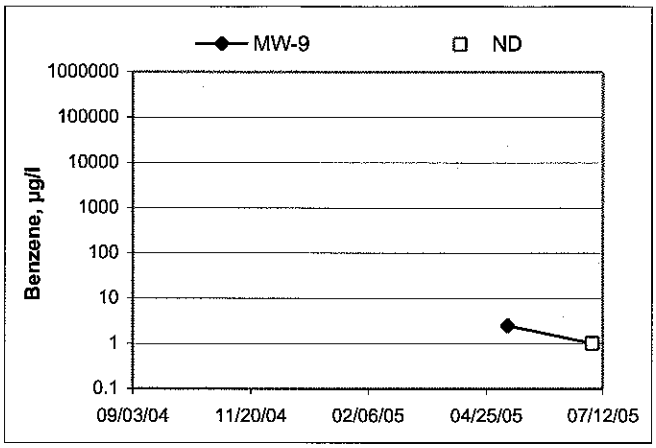








Benzene Concentrations vs Time
Former 76 Station 0353



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: Ben & Jerry Job #/Task #: 80040083 Date: 7-05-05

Site # 0353 Project Manager A.P. 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	X	0525	129.58	101.29	Ø	Ø	0655	4 SNDER#2
* MW-7	X	0522	119.28	100.08	Ø	Ø	0735	4
MW-5	X	0530	120.15	99.33	Ø	Ø	0721	4 SNDER#2
* MW-4	X	0528	119.40	99.85	Ø	Ø	0625	4
MW-2	X	0536	119.30	101.02	Ø	Ø	0753	4 SNDER#2
* MW-3	X	0536	119.25	100.42	Ø	Ø	0646	4
MW-9	X	0515	119.40	99.00	Ø	Ø	0620	4 SNDER#1
MW-6	X	0540	120.16	99.62	Ø	Ø	0827	4 SNDER#2
MW-8	X	0541	119.05	99.51	Ø	Ø	0800	4

FIELD DATA COMPLETE ✓ QA/QC ✓ COC ✓ WELL BOX CONDITION SHEETS ✓

WTT CERTIFICATE MANIFEST ✓ DRUM INVENTORY ✓ TRAFFIC CONTROL ✓

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: HAFKENSCHEID

Site: 0353 Project No.: 20040083 Date: 7/5/05

Well No. MW-7 Purge Method: SUB

Depth to Water (feet): 100.08 Depth to Product (feet): 0

Total Depth (feet) 119.28 LPH & Water Recovered (gallons):

Water Column (feet): 19.20 Casing Diameter (Inches): 4"

80% Recharge Depth(feet): 103.92 1 Well Volume (gallons): 12

①

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	D.O.	ORP	Turbidity
0701			12	961	21.7	7.10	6.10	96	
			24	966	21.2	7.14			
	0715		36	970	21.6	7.17			

Static at Time Sampled	Total Gallons Purged	Sample Time
101.35	36	0735

Comments:

Well No. MW-4 Purge Method: SUB

Depth to Water (feet): 99.85 Depth to Product (feet): 0

Total Depth (feet) 119.40 LPH & Water Recovered (gallons): 0

Water Column (feet): 19.55 Casing Diameter (Inches): 4"

80% Recharge Depth(feet): 103.76 1 Well Volume (gallons): 13

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	D.O.	ORP	Turbidity
0558			13	822	21.6	6.96	4.72	80	
			26	827	22.1	7.01			
	0613		39	832	22.2	7.04			

Static at Time Sampled	Total Gallons Purged	Sample Time
101.75	39	0625

Comments:

150

GROUNDWATER SAMPLING FIELD NOTES

Technician: HAFICENSCHEID

Site: 0353 Project No.: 20040083 Date: 7/5/05

Well No. MW-3 Purge Method: SUB

Depth to Water (feet): 100.42 Depth to Product (feet): 0

Total Depth (feet) 119.25 LPH & Water Recovered (gallons): 0

Water Column (feet): 18.83 Casing Diameter (Inches): 4"

80% Recharge Depth(feet): 104.18 1 Well Volume (gallons): 12

(2)

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	D.O.	ORP	Turbidity
0620			12	872	22.0	6.98	6.31	66	
			24	879	21.6	7.01			
	0633		36	884	21.5	7.04			

Static at Time Sampled	Total Gallons Purged	Sample Time
102.31	36	0646

Comments:

Well No. MW-8 Purge Method: SUB

Depth to Water (feet): 99.51 Depth to Product (feet): 0

Total Depth (feet) 119.05 LPH & Water Recovered (gallons): 0

Water Column (feet): 19.54 Casing Diameter (Inches): 4"

80% Recharge Depth(feet): 103.41 1 Well Volume (gallons): 13

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	D.O.	ORP	Turbidity
0726			13	932	21.6	7.02			
			26	938	21.9	7.05			
	0741		39	941	21.7	7.08			

Static at Time Sampled	Total Gallons Purged	Sample Time
102.25	39	0800

Comments:

GROUNDWATER SAMPLING FIELD NOTES

Technician: Carrillo

(1)

Site: 0353 Project No.: 20040083 Date: 7-5-05

Well No. MW-9 Purge Method: SUB # 0

Depth to Water (feet): 99.00 Depth to Product (feet): 0

Total Depth (feet) 119.40 LPH & Water Recovered (gallons): 0

Water Column (feet): 20.40 Casing Diameter (Inches): 4

80% Recharge Depth(feet): 103.08 1 Well Volume (gallons): 13

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	D.O.	ORP	Turbidity
0555			13	1504	20.8	7.12			
			26	1492	21.3	7.18			
	0613		39	1487	21.7	7.20			

Static at Time Sampled	Total Gallons Purged	Sample Time
101.95	39	0620

Comments:

Well No. MW-1 Purge Method: SUB #1

Depth to Water (feet): 101.29 Depth to Product (feet): 0

Total Depth (feet) 129.58 LPH & Water Recovered (gallons): 0

Water Column (feet): 28.29 Casing Diameter (Inches): 4

80% Recharge Depth(feet): 106.94 1 Well Volume (gallons): 18

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	D.O.	ORP	Turbidity
0627			18	1158	20.9	7.05			
			36	1134	21.3	7.01			
	0650		54	1125	21.8	7.08			

Static at Time Sampled	Total Gallons Purged	Sample Time
101.92	54	0655

Comments:

GROUNDWATER SAMPLING FIELD NOTES

Technician: CARRILLO

Site: 0353 Project No.: 20240083 Date: 7-5-05

Well No. MW-5 Purge Method: SUB#1

Depth to Water (feet): 99.33 Depth to Product (feet): 0

Total Depth (feet) 120.15 LPH & Water Recovered (gallons): 0

Water Column (feet): 20.82 Casing Diameter (Inches): 4

80% Recharge Depth(feet): 103.49 1 Well Volume (gallons): 13

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	D.O.	ORP	Turbidity
0658			13	1024	20.9	7.09			
			26	1038	21.3	7.15			
	0715		39	1042	21.5	7.18			

Static at Time Sampled	Total Gallons Purged	Sample Time
101.88	39	0721

Comments:

Well No. MW-2 Purge Method: SUB#2

Depth to Water (feet): 101.08 Depth to Product (feet): 0

Total Depth (feet) 119.30 LPH & Water Recovered (gallons): 0

Water Column (feet): 18.22 Casing Diameter (Inches): 4

80% Recharge Depth(feet): 104.72 1 Well Volume (gallons): 12

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	D.O.	ORP	Turbidity
0732			12	1092	21.0	7.27			
			24	1115	21.7	7.25			
	0747		36	1108	21.9	7.20			

Static at Time Sampled	Total Gallons Purged	Sample Time
101.97	36	0753

Comments:

GROUNDWATER SAMPLING FIELD NOTES

Technician: Carrillo

(3)

Site: 0353 Project No.: 20040085 Date: 7-5-05

Well No. MW-6 Purge Method: SUB#1

Depth to Water (feet): 99.62 Depth to Product (feet): -0

Total Depth (feet) 120.16 LPH & Water Recovered (gallons): 0

Water Column (feet): 20.54 Casing Diameter (Inches): 4

80% Recharge Depth(feet): 103.72 1 Well Volume (gallons): 13

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temperature (F, C)	pH	D.O.	ORP	Turbidity
0804			13	1158	21.2	7.05			
			26	1142	21.7	7.08			
	0822		39	1140	21.5	7.11			

Static at Time Sampled	Total Gallons Purged	Sample Time
101.79	39	0827

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):

207

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temperature (F, C)	pH	D.O.	ORP	Turbidity

Static at Time Sampled	Total Gallons Purged	Sample Time

Comments:

BC Laboratories, Inc

Date of Report: 07/20/2005

Anju Farfan

TRC Alton Geoscience

21 Technology Drive
Irvine, CA 92618-2302

RE: 0353

BC Lab Number: 0506571

Enclosed are the results of analyses for samples received by the laboratory on 07/05/05 17:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Vanessa Surratt
Client Service Rep

Authorized Signature

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

4100 Atlas Court • Bakersfield, CA 93308 • (661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

BC Laboratories, Inc

TRC Alton Geoscience 21 Technology Drive Irvine CA, 92618-2302	Project: 0353 Project Number: [none] Project Manager: Anju Farfan	**Reported:** 07/20/05 15:02

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information				
0506571-01	**COC Number:** ---		**Receive Date:** 07/05/05 17:15	Delivery Work Order (LabW:	
	Project Number: 0353		**Sampling Date:** 07/05/05 07:35	Global ID: T0603728619	
	Sampling Location: MW-7		**Sample Depth:** ---	Matrix: W	
	Sampling Point: MW-7		**Sample Matrix:** Water	Samle QC Type (SACode): CS	
	Sampled By: Hafkenscheid of TRCI			Cooler ID:	
0506571-02	**COC Number:** ---		**Receive Date:** 07/05/05 17:15	Delivery Work Order (LabW:	
	Project Number: 0353		**Sampling Date:** 07/05/05 06:25	Global ID: T0603728619	
	Sampling Location: MW-4		**Sample Depth:** ---	Matrix: W	
	Sampling Point: MW-4		**Sample Matrix:** Water	Samle QC Type (SACode): CS	
	Sampled By: Hafkenscheid of TRCI			Cooler ID:	
0506571-03	**COC Number:** ---		**Receive Date:** 07/05/05 17:15	Delivery Work Order (LabW:	
	Project Number: 0353		**Sampling Date:** 07/05/05 06:46	Global ID: T0603728619	
	Sampling Location: MW-3		**Sample Depth:** ---	Matrix: W	
	Sampling Point: MW-3		**Sample Matrix:** Water	Samle QC Type (SACode): CS	
	Sampled By: Hafkenscheid of TRCI			Cooler ID:	
0506571-04	**COC Number:** ---		**Receive Date:** 07/05/05 17:15	Delivery Work Order (LabW:	
	Project Number: 0353		**Sampling Date:** 07/05/05 08:00	Global ID: T0603728619	
	Sampling Location: MW-8		**Sample Depth:** ---	Matrix: W	
	Sampling Point: MW-8		**Sample Matrix:** Water	Samle QC Type (SACode): CS	
	Sampled By: Hafkenscheid of TRCI			Cooler ID:	
0506571-05	**COC Number:** ---		**Receive Date:** 07/05/05 17:15	Delivery Work Order (LabW:	
	Project Number: 0353		**Sampling Date:** 07/05/05 06:55	Global ID: T0603728619	
	Sampling Location: MW-1		**Sample Depth:** ---	Matrix: W	
	Sampling Point: MW-1		**Sample Matrix:** Water	Samle QC Type (SACode): CS	
	Sampled By: Carrillo of TRCI			Cooler ID:	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

4100 Atlas Court • Bakersfield, CA 93308 • (661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

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

Project: 0353
Project Number: [none]
Project Manager: Anju Farfan

Reported: 07/20/05 15:02

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information				
0506571-06	**COC Number:** ---		**Receive Date:** 07/05/05 17:15	Delivery Work Order (LabW:	
	Project Number: 0353		**Sampling Date:** 07/05/05 07:21	Global ID: T0603728619	
	Sampling Location: MW-5		**Sample Depth:** ---	Matrix: W	
	Sampling Point: MW-5		**Sample Matrix:** Water	Samle QC Type (SACode): CS	
	Sampled By: Carrillo of TRCI			Cooler ID:	
0506571-07	**COC Number:** ---		**Receive Date:** 07/05/05 17:15	Delivery Work Order (LabW:	
	Project Number: 0353		**Sampling Date:** 07/05/05 07:53	Global ID: T0603728619	
	Sampling Location: MW-2		**Sample Depth:** ---	Matrix: W	
	Sampling Point: MW-2		**Sample Matrix:** Water	Samle QC Type (SACode): CS	
	Sampled By: Carrillo of TRCI			Cooler ID:	
0506571-08	**COC Number:** ---		**Receive Date:** 07/05/05 17:15	Delivery Work Order (LabW:	
	Project Number: 0353		**Sampling Date:** 07/05/05 06:20	Global ID: T0603728619	
	Sampling Location: MW-9		**Sample Depth:** ---	Matrix: W	
	Sampling Point: MW-9		**Sample Matrix:** Water	Samle QC Type (SACode): CS	
	Sampled By: Carrillo of TRCI			Cooler ID:	
0506571-09	**COC Number:** ---		**Receive Date:** 07/05/05 17:15	Delivery Work Order (LabW:	
	Project Number: 0353		**Sampling Date:** 07/05/05 08:27	Global ID: T0603728619	
	Sampling Location: MW-6		**Sample Depth:** ---	Matrix: W	
	Sampling Point: MW-6		**Sample Matrix:** Water	Samle QC Type (SACode): CS	
	Sampled By: Carrillo of TRCI			Cooler ID:	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

4100 Atlas Court • Bakersfield, CA 93308 • (661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

BC Laboratories, Inc

TRC Alton Geoscience 21 Technology Drive Irvine CA, 92618-2302	Project: 0353 Project Number: [none] Project Manager: Anju Farfan	**Reported:** 07/20/05 15:02

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0506571-01 **Client Sample Name:** 0353, MW-7, MW-7, 7/5/2005 7:35:00AM, Hafkenscheid

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	1.0	0.12	EPA-8260	07/11/05	07/12/05 01:14	SDU	MS-V12	1	BOG0569	ND	
Ethylbenzene	ND	ug/L	1.0	0.13	EPA-8260	07/11/05	07/12/05 01:14	SDU	MS-V12	1	BOG0569	ND	
Methyl t-butyl ether	ND	ug/L	2.0	0.15	EPA-8260	07/11/05	07/12/05 01:14	SDU	MS-V12	1	BOG0569	ND	
Toluene	ND	ug/L	1.0	0.15	EPA-8260	07/11/05	07/12/05 01:14	SDU	MS-V12	1	BOG0569	ND	
Total Xylenes	ND	ug/L	1.0	0.40	EPA-8260	07/11/05	07/12/05 01:14	SDU	MS-V12	1	BOG0569	ND	
t-Amyl Methyl ether	ND	ug/L	2.0	0.31	EPA-8260	07/11/05	07/12/05 01:14	SDU	MS-V12	1	BOG0569	ND	
t-Butyl alcohol	ND	ug/L	10	10	EPA-8260	07/11/05	07/12/05 01:14	SDU	MS-V12	1	BOG0569	ND	
Diisopropyl ether	ND	ug/L	2.0	0.25	EPA-8260	07/11/05	07/12/05 01:14	SDU	MS-V12	1	BOG0569	ND	
Ethanol	ND	ug/L	1000	110	EPA-8260	07/11/05	07/12/05 01:14	SDU	MS-V12	1	BOG0569	ND	
Ethyl t-butyl ether	ND	ug/L	2.0	0.27	EPA-8260	07/11/05	07/12/05 01:14	SDU	MS-V12	1	BOG0569	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	23	EPA-8260	07/11/05	07/12/05 01:14	SDU	MS-V12	1	BOG0569	ND	
1,2-Dichloroethane-d4 (Surrogate)	96.8	%	76 - 114	(LCL - UCL)	EPA-8260	07/11/05	07/12/05 01:14	SDU	MS-V12	1	BOG0569		
Toluene-d8 (Surrogate)	97.9	%	88 - 110	(LCL - UCL)	EPA-8260	07/11/05	07/12/05 01:14	SDU	MS-V12	1	BOG0569		
4-Bromofluorobenzene (Surrogate)	96.9	%	86 - 115	(LCL - UCL)	EPA-8260	07/11/05	07/12/05 01:14	SDU	MS-V12	1	BOG0569		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

4100 Atlas Court • Bakersfield, CA 93308 • (661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

BC Laboratories, Inc

TRC Alton Geoscience 21 Technology Drive Irvine CA, 92618-2302	Project: 0353 Project Number: [none] Project Manager: Anju Farfan	**Reported:** 08/09/05 14:04

Water Analysis (General Chemistry)

BCL Sample ID: 0506571-01 | **Client Sample Name:** 0353, MW-7, MW-7, 7/5/2005 7:35:00AM, Hafkenscheid

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Total Alkalinity as CaCO3	190	mg/L	5.0	5.0	EPA-310.1	07/18/05	07/18/05 08:30	MAR	BDB	2	BOG0737	3.8	A01
Nitrate as N	9.7	mg/L	0.10	0.018	EPA-300.0	07/06/05	07/06/05 13:05	NTN	IC1	1	BOG0170	ND	
Sulfate	170	mg/L	1.0	0.098	EPA-300.0	07/06/05	07/06/05 13:05	NTN	IC1	1	BOG0170	ND	
Iron (III) Species	11000	ug/L	100	100	Calc	07/06/05	08/09/05 13:55	MSA	Calc	1	BOG0204	ND	
Iron (II) Species	110	ug/L	100	100	SM-3500-Fe	07/06/05	07/06/05 08:25	MV1	SPEC05	1	BOG0186	ND	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

4100 Atlas Court • Bakersfield, CA 93308 • (661) 327-4911 • Fax (661) 327-1918 • www.bclabs.com

BC Laboratories, Inc

TRC Alton Geoscience 21 Technology Drive Irvine CA, 92618-2302	Project: 0353 Project Number: [none] Project Manager: Anju Farfan	**Reported:** 08/09/05 14:04

Water Analysis (Metals)

BCL Sample ID: 0506571-01 | **Client Sample Name:** 0353, MW-7, MW-7, 7/5/2005 7:35:00AM, Hafkenscheid

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Manganese	ND	ug/L	10	2.1	EPA-6010B	07/16/05	07/19/05 20:59	ARD	PE-OP1	1	BOG0501	ND	
Total Iron	11000	ug/L	50	16	EPA-6010B	07/25/05	07/26/05 19:21	ARD	PE-OP2	1	BOH0464	2.7	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

4100 Atlas Court • Bakersfield, CA 93308 • (661) 327-4911 • Fax (661) 327-1918 • www.bclabs.com

BC Laboratories, Inc

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

Project: 0353
Project Number: [none]
Project Manager: Anju Farfan

Reported: 07/20/05 15:02

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0506571-02 **Client Sample Name:** 0353, MW-4, MW-4, 7/5/2005 6:25:00AM, Hafkenscheid

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	1.0	0.12	EPA-8260	07/11/05	07/12/05 01:36	SDU	MS-V12	1	BOG0569	ND	
Ethylbenzene	ND	ug/L	1.0	0.13	EPA-8260	07/11/05	07/12/05 01:36	SDU	MS-V12	1	BOG0569	ND	
Methyl t-butyl ether	0.20	ug/L	2.0	0.15	EPA-8260	07/11/05	07/12/05 01:36	SDU	MS-V12	1	BOG0569	ND	J
Toluene	ND	ug/L	1.0	0.15	EPA-8260	07/11/05	07/12/05 01:36	SDU	MS-V12	1	BOG0569	ND	
Total Xylenes	ND	ug/L	1.0	0.40	EPA-8260	07/11/05	07/12/05 01:36	SDU	MS-V12	1	BOG0569	ND	
t-Amyl Methyl ether	ND	ug/L	2.0	0.31	EPA-8260	07/11/05	07/12/05 01:36	SDU	MS-V12	1	BOG0569	ND	
t-Butyl alcohol	ND	ug/L	10	10	EPA-8260	07/11/05	07/12/05 01:36	SDU	MS-V12	1	BOG0569	ND	
Diisopropyl ether	ND	ug/L	2.0	0.25	EPA-8260	07/11/05	07/12/05 01:36	SDU	MS-V12	1	BOG0569	ND	
Ethanol	ND	ug/L	1000	110	EPA-8260	07/11/05	07/12/05 01:36	SDU	MS-V12	1	BOG0569	ND	
Ethyl t-butyl ether	ND	ug/L	2.0	0.27	EPA-8260	07/11/05	07/12/05 01:36	SDU	MS-V12	1	BOG0569	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	23	EPA-8260	07/11/05	07/12/05 01:36	SDU	MS-V12	1	BOG0569	ND	
1,2-Dichloroethane-d4 (Surrogate)	100	%	76 - 114 (LCL - UCL)		EPA-8260	07/11/05	07/12/05 01:36	SDU	MS-V12	1	BOG0569		
Toluene-d8 (Surrogate)	97.8	%	88 - 110 (LCL - UCL)		EPA-8260	07/11/05	07/12/05 01:36	SDU	MS-V12	1	BOG0569		
4-Bromofluorobenzene (Surrogate)	96.9	%	86 - 115 (LCL - UCL)		EPA-8260	07/11/05	07/12/05 01:36	SDU	MS-V12	1	BOG0569		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

4100 Atlas Court • Bakersfield, CA 93308 • (661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

BC Laboratories, Inc

TRC Alton Geoscience 21 Technology Drive Irvine CA, 92618-2302	Project: 0353 Project Number: [none] Project Manager: Anju Farfan	**Reported:** 08/09/05 14:04

Water Analysis (General Chemistry)

BCL Sample ID: 0506571-02 | **Client Sample Name:** 0353, MW-4, MW-4, 7/5/2005 6:25:00AM, Hafkenscheid

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Total Alkalinity as CaCO3	200	mg/L	5.0	5.0	EPA-310.1	07/18/05	07/18/05 08:30	MAR	BDB	2	BOG0737	3.8	A01
Nitrate as N	21	mg/L	0.20	0.036	EPA-300.0	07/06/05	07/06/05 23:11	NTN	IC1	2	BOG0170	ND	A01
Sulfate	130	mg/L	1.0	0.098	EPA-300.0	07/06/05	07/06/05 14:18	NTN	IC1	1	BOG0170	ND	
Iron (III) Species	20000	ug/L	100	100	Calc	07/06/05	08/09/05 13:55	MSA	Calc	1	BOG0204	ND	
Iron (II) Species	100	ug/L	100	100	SM-3500-Fe	07/06/05	07/06/05 08:25	MV1	SPEC05	1	BOG0186	ND	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

4100 Atlas Court • Bakersfield, CA 93308 • (661) 327-4911 • Fax (661) 327-1918 • www.bclabs.com

BC Laboratories, Inc

TRC Alton Geoscience 21 Technology Drive Irvine CA, 92618-2302	Project: 0353 Project Number: [none] Project Manager: Anju Farfan	**Reported:** 08/09/05 14:04

Water Analysis (Metals)

BCL Sample ID: 0506571-02 | **Client Sample Name:** 0353, MW-4, MW-4, 7/5/2005 6:25:00AM, Hafkenscheid

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Manganese	ND	ug/L	10	2.1	EPA-6010B	07/16/05	07/19/05 21:20	ARD	PE-OP1	1	BOG0501	ND	
Total Iron	20000	ug/L	50	16	EPA-6010B	07/25/05	07/26/05 19:49	ARD	PE-OP2	1	BOH0464	2.7	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

4100 Atlas Court • Bakersfield, CA 93308 • (661) 327-4911 • Fax (661) 327-1918 • www.bclabs.com

BC Laboratories, Inc

TRC Alton Geoscience 21 Technology Drive Irvine CA, 92618-2302	Project: 0353 Project Number: [none] Project Manager: Anju Farfan	**Reported:** 07/20/05 15:02

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0506571-03 | **Client Sample Name:** 0353, MW-3, MW-3, 7/5/2005 6:46:00AM, Hafkenscheid

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	1.0	0.12	EPA-8260	07/11/05	07/12/05 01:58	SDU	MS-V12	1	BOG0569	ND	
Ethylbenzene	ND	ug/L	1.0	0.13	EPA-8260	07/11/05	07/12/05 01:58	SDU	MS-V12	1	BOG0569	ND	
Methyl t-butyl ether	2.6	ug/L	2.0	0.15	EPA-8260	07/11/05	07/12/05 01:58	SDU	MS-V12	1	BOG0569	ND	
Toluene	ND	ug/L	1.0	0.15	EPA-8260	07/11/05	07/12/05 01:58	SDU	MS-V12	1	BOG0569	ND	
Total Xylenes	ND	ug/L	1.0	0.40	EPA-8260	07/11/05	07/12/05 01:58	SDU	MS-V12	1	BOG0569	ND	
t-Amyl Methyl ether	ND	ug/L	2.0	0.31	EPA-8260	07/11/05	07/12/05 01:58	SDU	MS-V12	1	BOG0569	ND	
t-Butyl alcohol	ND	ug/L	10	10	EPA-8260	07/11/05	07/12/05 01:58	SDU	MS-V12	1	BOG0569	ND	
Diisopropyl ether	ND	ug/L	2.0	0.25	EPA-8260	07/11/05	07/12/05 01:58	SDU	MS-V12	1	BOG0569	ND	
Ethanol	ND	ug/L	1000	110	EPA-8260	07/11/05	07/12/05 01:58	SDU	MS-V12	1	BOG0569	ND	
Ethyl t-butyl ether	ND	ug/L	2.0	0.27	EPA-8260	07/11/05	07/12/05 01:58	SDU	MS-V12	1	BOG0569	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	23	EPA-8260	07/11/05	07/12/05 01:58	SDU	MS-V12	1	BOG0569	ND	A53
1,2-Dichloroethane-d4 (Surrogate)	102	%	76 - 114 (LCL - UCL)		EPA-8260	07/11/05	07/12/05 01:58	SDU	MS-V12	1	BOG0569		
Toluene-d8 (Surrogate)	97.4	%	88 - 110 (LCL - UCL)		EPA-8260	07/11/05	07/12/05 01:58	SDU	MS-V12	1	BOG0569		
4-Bromofluorobenzene (Surrogate)	96.7	%	86 - 115 (LCL - UCL)		EPA-8260	07/11/05	07/12/05 01:58	SDU	MS-V12	1	BOG0569		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

4100 Atlas Court • Bakersfield, CA 93308 • (661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

BC Laboratories, Inc

TRC Alton Geoscience 21 Technology Drive Irvine CA, 92618-2302	Project: 0353 Project Number: [none] Project Manager: Anju Farfan	**Reported:** 08/09/05 14:04

Water Analysis (General Chemistry)

BCL Sample ID: 0506571-03 | **Client Sample Name:** 0353, MW-3, MW-3, 7/5/2005 6:46:00AM, Hafkenscheid

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Total Alkalinity as CaCO3	250	mg/L	5.0	5.0	EPA-310.1	07/18/05	07/18/05 08:30	MAR	BDB	2	BOG0737	3.8	A01
Nitrate as N	7.8	mg/L	0.10	0.018	EPA-300.0	07/06/05	07/06/05 15:50	NTN	IC1	1	BOG0170	ND	
Sulfate	140	mg/L	1.0	0.098	EPA-300.0	07/06/05	07/06/05 15:50	NTN	IC1	1	BOG0170	ND	
Iron (III) Species	4900	ug/L	100	100	Calc	07/06/05	08/09/05 13:55	MSA	Calc	1	BOG0204	ND	
Iron (II) Species	120	ug/L	100	100	SM-3500-Fe	07/06/05	07/06/05 08:25	MV1	SPEC05	1	BOG0186	ND	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation

4100 Atlas Court • Bakersfield, CA 93308 • (661) 327-4911 • Fax (661) 327-1918 • www.bclabs.com

BC Laboratories, Inc

TRC Alton Geoscience 21 Technology Drive Irvine CA, 92618-2302	Project: 0353 Project Number: [none] Project Manager: Anju Farfan	**Reported:** 08/09/05 14:04

Water Analysis (Metals)

BCL Sample ID: 0506571-03 | **Client Sample Name:** 0353, MW-3, MW-3, 7/5/2005 6:46:00AM, Hafkenscheid

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Manganese	ND	ug/L	10	2.1	EPA-6010B	07/16/05	07/19/05 21:25	ARD	PE-OP1	1	BOG0501	ND	
Total Iron	5000	ug/L	50	16	EPA-6010B	07/25/05	07/26/05 19:54	ARD	PE-OP2	1	BOH0464	2.7	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

4100 Atlas Court • Bakersfield, CA 93308 • (661) 327-4911 • Fax (661) 327-1918 • www.bclabs.com

BC Laboratories, Inc

TRC Alton Geoscience 21 Technology Drive Irvine CA, 92618-2302	Project: 0353 Project Number: [none] Project Manager: Anju Farfan	**Reported:** 07/20/05 15:02

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0506571-04 | **Client Sample Name:** 0353, MW-8, MW-8, 7/5/2005 8:00:00AM, Hafkenscheid

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	1.0	0.12	EPA-8260	07/11/05	07/12/05 02:20	SDU	MS-V12	1	BOG0569	ND	
Ethylbenzene	ND	ug/L	1.0	0.13	EPA-8260	07/11/05	07/12/05 02:20	SDU	MS-V12	1	BOG0569	ND	
Methyl t-butyl ether	0.20	ug/L	2.0	0.15	EPA-8260	07/11/05	07/12/05 02:20	SDU	MS-V12	1	BOG0569	ND	J
Toluene	ND	ug/L	1.0	0.15	EPA-8260	07/11/05	07/12/05 02:20	SDU	MS-V12	1	BOG0569	ND	
Total Xylenes	ND	ug/L	1.0	0.40	EPA-8260	07/11/05	07/12/05 02:20	SDU	MS-V12	1	BOG0569	ND	
t-Amyl Methyl ether	ND	ug/L	2.0	0.31	EPA-8260	07/11/05	07/12/05 02:20	SDU	MS-V12	1	BOG0569	ND	
t-Butyl alcohol	ND	ug/L	10	10	EPA-8260	07/11/05	07/12/05 02:20	SDU	MS-V12	1	BOG0569	ND	
Diisopropyl ether	ND	ug/L	2.0	0.25	EPA-8260	07/11/05	07/12/05 02:20	SDU	MS-V12	1	BOG0569	ND	
Ethanol	ND	ug/L	1000	110	EPA-8260	07/11/05	07/12/05 02:20	SDU	MS-V12	1	BOG0569	ND	
Ethyl t-butyl ether	ND	ug/L	2.0	0.27	EPA-8260	07/11/05	07/12/05 02:20	SDU	MS-V12	1	BOG0569	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	23	EPA-8260	07/11/05	07/12/05 02:20	SDU	MS-V12	1	BOG0569	ND	A53
1,2-Dichloroethane-d4 (Surrogate)	102	%	76 - 114 (LCL - UCL)		EPA-8260	07/11/05	07/12/05 02:20	SDU	MS-V12	1	BOG0569		
Toluene-d8 (Surrogate)	97.7	%	88 - 110 (LCL - UCL)		EPA-8260	07/11/05	07/12/05 02:20	SDU	MS-V12	1	BOG0569		
4-Bromofluorobenzene (Surrogate)	97.3	%	86 - 115 (LCL - UCL)		EPA-8260	07/11/05	07/12/05 02:20	SDU	MS-V12	1	BOG0569		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

4100 Atlas Court • Bakersfield, CA 93308 • (661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

BC Laboratories, Inc

TRC Alton Geoscience 21 Technology Drive Irvine CA, 92618-2302	Project: 0353 Project Number: [none] Project Manager: Anju Farfan	**Reported:** 07/20/05 15:02

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0506571-05 | **Client Sample Name:** 0353, MW-1, MW-1, 7/5/2005 6:55:00AM, Carrillo

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	1.0	0.12	EPA-8260	07/11/05	07/12/05 02:43	SDU	MS-V12	1	BOG0569	ND	
Ethylbenzene	ND	ug/L	1.0	0.13	EPA-8260	07/11/05	07/12/05 02:43	SDU	MS-V12	1	BOG0569	ND	
Methyl t-butyl ether	ND	ug/L	2.0	0.15	EPA-8260	07/11/05	07/12/05 02:43	SDU	MS-V12	1	BOG0569	ND	
Toluene	ND	ug/L	1.0	0.15	EPA-8260	07/11/05	07/12/05 02:43	SDU	MS-V12	1	BOG0569	ND	
Total Xylenes	ND	ug/L	1.0	0.40	EPA-8260	07/11/05	07/12/05 02:43	SDU	MS-V12	1	BOG0569	ND	
t-Amyl Methyl ether	ND	ug/L	2.0	0.31	EPA-8260	07/11/05	07/12/05 02:43	SDU	MS-V12	1	BOG0569	ND	
t-Butyl alcohol	ND	ug/L	10	10	EPA-8260	07/11/05	07/12/05 02:43	SDU	MS-V12	1	BOG0569	ND	
Diisopropyl ether	ND	ug/L	2.0	0.25	EPA-8260	07/11/05	07/12/05 02:43	SDU	MS-V12	1	BOG0569	ND	
Ethanol	ND	ug/L	1000	110	EPA-8260	07/11/05	07/12/05 02:43	SDU	MS-V12	1	BOG0569	ND	
Ethyl t-butyl ether	ND	ug/L	2.0	0.27	EPA-8260	07/11/05	07/12/05 02:43	SDU	MS-V12	1	BOG0569	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	23	EPA-8260	07/11/05	07/12/05 02:43	SDU	MS-V12	1	BOG0569	ND	A53
1,2-Dichloroethane-d4 (Surrogate)	99.8	%	76 - 114 (LCL - UCL)		EPA-8260	07/11/05	07/12/05 02:43	SDU	MS-V12	1	BOG0569		
Toluene-d8 (Surrogate)	98.0	%	88 - 110 (LCL - UCL)		EPA-8260	07/11/05	07/12/05 02:43	SDU	MS-V12	1	BOG0569		
4-Bromofluorobenzene (Surrogate)	94.6	%	86 - 115 (LCL - UCL)		EPA-8260	07/11/05	07/12/05 02:43	SDU	MS-V12	1	BOG0569		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

4100 Atlas Court • Bakersfield, CA 93308 • (661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

BC Laboratories, Inc

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

Project: 0353
Project Number: [none]
Project Manager: Anju Farfan

Reported: 07/20/05 15:02

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0506571-06 | **Client Sample Name:** 0353, MW-5, MW-5, 7/5/2005 7:21:00AM, Carrillo

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	1.0	0.12	EPA-8260	07/11/05	07/12/05 03:05	SDU	MS-V12	1	BOG0569	ND	
Ethylbenzene	ND	ug/L	1.0	0.13	EPA-8260	07/11/05	07/12/05 03:05	SDU	MS-V12	1	BOG0569	ND	
Methyl t-butyl ether	0.23	ug/L	2.0	0.15	EPA-8260	07/11/05	07/12/05 03:05	SDU	MS-V12	1	BOG0569	ND	J
Toluene	ND	ug/L	1.0	0.15	EPA-8260	07/11/05	07/12/05 03:05	SDU	MS-V12	1	BOG0569	ND	
Total Xylenes	ND	ug/L	1.0	0.40	EPA-8260	07/11/05	07/12/05 03:05	SDU	MS-V12	1	BOG0569	ND	
t-Amyl Methyl ether	ND	ug/L	2.0	0.31	EPA-8260	07/11/05	07/12/05 03:05	SDU	MS-V12	1	BOG0569	ND	
t-Butyl alcohol	ND	ug/L	10	10	EPA-8260	07/11/05	07/12/05 03:05	SDU	MS-V12	1	BOG0569	ND	
Diisopropyl ether	ND	ug/L	2.0	0.25	EPA-8260	07/11/05	07/12/05 03:05	SDU	MS-V12	1	BOG0569	ND	
Ethanol	ND	ug/L	1000	110	EPA-8260	07/11/05	07/12/05 03:05	SDU	MS-V12	1	BOG0569	ND	
Ethyl t-butyl ether	ND	ug/L	2.0	0.27	EPA-8260	07/11/05	07/12/05 03:05	SDU	MS-V12	1	BOG0569	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	23	EPA-8260	07/11/05	07/12/05 03:05	SDU	MS-V12	1	BOG0569	ND	A53
1,2-Dichloroethane-d4 (Surrogate)	100	%	76 - 114 (LCL - UCL)		EPA-8260	07/11/05	07/12/05 03:05	SDU	MS-V12	1	BOG0569		
Toluene-d8 (Surrogate)	98.6	%	88 - 110 (LCL - UCL)		EPA-8260	07/11/05	07/12/05 03:05	SDU	MS-V12	1	BOG0569		
4-Bromofluorobenzene (Surrogate)	98.0	%	86 - 115 (LCL - UCL)		EPA-8260	07/11/05	07/12/05 03:05	SDU	MS-V12	1	BOG0569		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

4100 Atlas Court • Bakersfield, CA 93308 • (661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

BC Laboratories, Inc

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

Project: 0353
Project Number: [none]
Project Manager: Anju Farfan

Reported: 07/20/05 15:02

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0506571-07 | **Client Sample Name:** 0353, MW-2, MW-2, 7/5/2005 7:53:00AM, Carrillo

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	1.0	0.12	EPA-8260	07/11/05	07/12/05 03:27	SDU	MS-V12	1	BOG0569	ND	
Ethylbenzene	ND	ug/L	1.0	0.13	EPA-8260	07/11/05	07/12/05 03:27	SDU	MS-V12	1	BOG0569	ND	
Methyl t-butyl ether	ND	ug/L	2.0	0.15	EPA-8260	07/11/05	07/12/05 03:27	SDU	MS-V12	1	BOG0569	ND	
Toluene	ND	ug/L	1.0	0.15	EPA-8260	07/11/05	07/12/05 03:27	SDU	MS-V12	1	BOG0569	ND	
Total Xylenes	ND	ug/L	1.0	0.40	EPA-8260	07/11/05	07/12/05 03:27	SDU	MS-V12	1	BOG0569	ND	
t-Amyl Methyl ether	ND	ug/L	2.0	0.31	EPA-8260	07/11/05	07/12/05 03:27	SDU	MS-V12	1	BOG0569	ND	
t-Butyl alcohol	ND	ug/L	10	10	EPA-8260	07/11/05	07/12/05 03:27	SDU	MS-V12	1	BOG0569	ND	
Diisopropyl ether	ND	ug/L	2.0	0.25	EPA-8260	07/11/05	07/12/05 03:27	SDU	MS-V12	1	BOG0569	ND	
Ethanol	ND	ug/L	1000	110	EPA-8260	07/11/05	07/12/05 03:27	SDU	MS-V12	1	BOG0569	ND	
Ethyl t-butyl ether	ND	ug/L	2.0	0.27	EPA-8260	07/11/05	07/12/05 03:27	SDU	MS-V12	1	BOG0569	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	23	EPA-8260	07/11/05	07/12/05 03:27	SDU	MS-V12	1	BOG0569	ND	A53
1,2-Dichloroethane-d4 (Surrogate)	99.6	%	76 - 114 (LCL - UCL)		EPA-8260	07/11/05	07/12/05 03:27	SDU	MS-V12	1	BOG0569		
Toluene-d8 (Surrogate)	98.0	%	88 - 110 (LCL - UCL)		EPA-8260	07/11/05	07/12/05 03:27	SDU	MS-V12	1	BOG0569		
4-Bromofluorobenzene (Surrogate)	94.5	%	86 - 115 (LCL - UCL)		EPA-8260	07/11/05	07/12/05 03:27	SDU	MS-V12	1	BOG0569		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

4100 Atlas Court • Bakersfield, CA 93308 • (661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

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

Project: 0353
Project Number: [none]
Project Manager: Anju Farfan

Reported: 07/20/05 15:02

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0506571-08 | **Client Sample Name:** 0353, MW-9, MW-9, 7/5/2005 6:20:00AM, Carrillo

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	1.0	0.12	EPA-8260	07/11/05	07/12/05 03:49	SDU	MS-V12	1	BOG0569	ND	
Ethylbenzene	ND	ug/L	1.0	0.13	EPA-8260	07/11/05	07/12/05 03:49	SDU	MS-V12	1	BOG0569	ND	
Methyl t-butyl ether	ND	ug/L	2.0	0.15	EPA-8260	07/11/05	07/12/05 03:49	SDU	MS-V12	1	BOG0569	ND	
Toluene	ND	ug/L	1.0	0.15	EPA-8260	07/11/05	07/12/05 03:49	SDU	MS-V12	1	BOG0569	ND	
Total Xylenes	ND	ug/L	1.0	0.40	EPA-8260	07/11/05	07/12/05 03:49	SDU	MS-V12	1	BOG0569	ND	
t-Amyl Methyl ether	ND	ug/L	2.0	0.31	EPA-8260	07/11/05	07/12/05 03:49	SDU	MS-V12	1	BOG0569	ND	
t-Butyl alcohol	ND	ug/L	10	10	EPA-8260	07/11/05	07/12/05 03:49	SDU	MS-V12	1	BOG0569	ND	
Diisopropyl ether	ND	ug/L	2.0	0.25	EPA-8260	07/11/05	07/12/05 03:49	SDU	MS-V12	1	BOG0569	ND	
Ethanol	ND	ug/L	1000	110	EPA-8260	07/11/05	07/12/05 03:49	SDU	MS-V12	1	BOG0569	ND	
Ethyl t-butyl ether	ND	ug/L	2.0	0.27	EPA-8260	07/11/05	07/12/05 03:49	SDU	MS-V12	1	BOG0569	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	23	EPA-8260	07/11/05	07/12/05 03:49	SDU	MS-V12	1	BOG0569	ND	A53
1,2-Dichloroethane-d4 (Surrogate)	99.3	%	76 - 114 (LCL - UCL)		EPA-8260	07/11/05	07/12/05 03:49	SDU	MS-V12	1	BOG0569		
Toluene-d8 (Surrogate)	98.6	%	88 - 110 (LCL - UCL)		EPA-8260	07/11/05	07/12/05 03:49	SDU	MS-V12	1	BOG0569		
4-Bromofluorobenzene (Surrogate)	97.8	%	86 - 115 (LCL - UCL)		EPA-8260	07/11/05	07/12/05 03:49	SDU	MS-V12	1	BOG0569		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

4100 Atlas Court • Bakersfield, CA 93308 • (661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

BC Laboratories, Inc

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

Project: 0353
Project Number: [none]
Project Manager: Anju Farfan

Reported: 07/20/05 15:02

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0506571-09 | **Client Sample Name:** 0353, MW-6, MW-6, 7/5/2005 8:27:00AM, Carrillo

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	1.0	0.12	EPA-8260	07/08/05	07/12/05 04:11	SDU	MS-V12	1	BOG0427	ND	
Ethylbenzene	ND	ug/L	1.0	0.13	EPA-8260	07/08/05	07/12/05 04:11	SDU	MS-V12	1	BOG0427	ND	
Methyl t-butyl ether	1.2	ug/L	2.0	0.15	EPA-8260	07/08/05	07/12/05 04:11	SDU	MS-V12	1	BOG0427	ND	J
Toluene	ND	ug/L	1.0	0.15	EPA-8260	07/08/05	07/12/05 04:11	SDU	MS-V12	1	BOG0427	ND	
Total Xylenes	ND	ug/L	1.0	0.40	EPA-8260	07/08/05	07/12/05 04:11	SDU	MS-V12	1	BOG0427	ND	
t-Amyl Methyl ether	ND	ug/L	2.0	0.31	EPA-8260	07/08/05	07/12/05 04:11	SDU	MS-V12	1	BOG0427	ND	
t-Butyl alcohol	ND	ug/L	10	10	EPA-8260	07/08/05	07/12/05 04:11	SDU	MS-V12	1	BOG0427	ND	
Diisopropyl ether	ND	ug/L	2.0	0.25	EPA-8260	07/08/05	07/12/05 04:11	SDU	MS-V12	1	BOG0427	ND	
Ethanol	ND	ug/L	1000	110	EPA-8260	07/08/05	07/12/05 04:11	SDU	MS-V12	1	BOG0427	ND	
Ethyl t-butyl ether	ND	ug/L	2.0	0.27	EPA-8260	07/08/05	07/12/05 04:11	SDU	MS-V12	1	BOG0427	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	23	EPA-8260	07/08/05	07/12/05 04:11	SDU	MS-V12	1	BOG0427	ND	A53
1,2-Dichloroethane-d4 (Surrogate)	98.4	%	76 - 114 (LCL - UCL)		EPA-8260	07/08/05	07/12/05 04:11	SDU	MS-V12	1	BOG0427		
Toluene-d8 (Surrogate)	97.4	%	88 - 110 (LCL - UCL)		EPA-8260	07/08/05	07/12/05 04:11	SDU	MS-V12	1	BOG0427		
4-Bromofluorobenzene (Surrogate)	94.1	%	86 - 115 (LCL - UCL)		EPA-8260	07/08/05	07/12/05 04:11	SDU	MS-V12	1	BOG0427		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

4100 Atlas Court • Bakersfield, CA 93308 • (661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

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

Project: 0353
Project Number: [none]
Project Manager: Anju Farfan

Reported: 07/20/05 15:02

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample ID	QC Sample Type	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
Benzene	BOG0427	BOG0427-MS1	Matrix Spike	ND	27.350	25.000	ug/L		109		70 - 130	
		BOG0427-MSD1	Matrix Spike Duplicate	ND	27.380	25.000	ug/L	0.913	110	20	70 - 130	
Toluene	BOG0427	BOG0427-MS1	Matrix Spike	ND	25.030	25.000	ug/L		100		70 - 130	
		BOG0427-MSD1	Matrix Spike Duplicate	ND	25.270	25.000	ug/L	0.995	101	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	BOG0427	BOG0427-MS1	Matrix Spike	ND	10.420	10.000	ug/L		104		76 - 114	
		BOG0427-MSD1	Matrix Spike Duplicate	ND	10.300	10.000	ug/L		103		76 - 114	
Toluene-d8 (Surrogate)	BOG0427	BOG0427-MS1	Matrix Spike	ND	9.9900	10.000	ug/L		99.9		88 - 110	
		BOG0427-MSD1	Matrix Spike Duplicate	ND	10.030	10.000	ug/L		100		88 - 110	
4-Bromofluorobenzene (Surrogate)	BOG0427	BOG0427-MS1	Matrix Spike	ND	10.200	10.000	ug/L		102		86 - 115	
		BOG0427-MSD1	Matrix Spike Duplicate	ND	10.230	10.000	ug/L		102		86 - 115	
Benzene	BOG0569	BOG0569-MS1	Matrix Spike	ND	27.790	25.000	ug/L		111		70 - 130	
		BOG0569-MSD1	Matrix Spike Duplicate	ND	29.220	25.000	ug/L	5.26	117	20	70 - 130	
Toluene	BOG0569	BOG0569-MS1	Matrix Spike	ND	24.770	25.000	ug/L		99.1		70 - 130	
		BOG0569-MSD1	Matrix Spike Duplicate	ND	25.690	25.000	ug/L	3.86	103	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	BOG0569	BOG0569-MS1	Matrix Spike	ND	9.9400	10.000	ug/L		99.4		76 - 114	
		BOG0569-MSD1	Matrix Spike Duplicate	ND	10.110	10.000	ug/L		101		76 - 114	
Toluene-d8 (Surrogate)	BOG0569	BOG0569-MS1	Matrix Spike	ND	9.8900	10.000	ug/L		98.9		88 - 110	
		BOG0569-MSD1	Matrix Spike Duplicate	ND	9.8600	10.000	ug/L		98.6		88 - 110	
4-Bromofluorobenzene (Surrogate)	BOG0569	BOG0569-MS1	Matrix Spike	ND	10.160	10.000	ug/L		102		86 - 115	
		BOG0569-MSD1	Matrix Spike Duplicate	ND	10.160	10.000	ug/L		102		86 - 115	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

4100 Atlas Court • Bakersfield, CA 93308 • (661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

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

Project: 0353
Project Number: [none]
Project Manager: Anju Farfan

Reported: 07/20/05 15:02

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample ID	QC Sample Type	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
Nitrate as N	BOG0170	BOG0170-DUP1	Duplicate	9.6620	9.6490		mg/L	0.135		10		
		BOG0170-MS1	Matrix Spike	9.6620	14.653	5.0505	mg/L		98.8		80 - 120	
		BOG0170-MSD1	Matrix Spike Duplicate	9.6620	14.692	5.0505	mg/L	0.806	99.6	10	80 - 120	
Sulfate	BOG0170	BOG0170-DUP1	Duplicate	170.42	170.11		mg/L	0.182		10		
		BOG0170-MS1	Matrix Spike	170.42	273.29	101.01	mg/L		102		80 - 120	
		BOG0170-MSD1	Matrix Spike Duplicate	170.42	272.73	101.01	mg/L	0.985	101	10	80 - 120	
Iron (II) Species	BOG0186	BOG0186-DUP1	Duplicate	105.92	114.64		ug/L	7.91		10		
Total Alkalinity as CaCO3	BOG0737	BOG0737-MS1	Matrix Spike	194.90	326.12	125.00	mg/L		105		80 - 120	
		BOG0737-MSD1	Matrix Spike Duplicate	194.90	323.26	125.00	mg/L	1.92	103	10	80 - 120	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

4100 Atlas Court • Bakersfield, CA 93308 • (661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

BC Laboratories, Inc

TRC Alton Geoscience 21 Technology Drive Irvine CA, 92618-2302	Project: 0353 Project Number: [none] Project Manager: Anju Farfan	**Reported:** 08/09/05 14:04

Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample ID	QC Sample Type	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
Manganese	BOG0501	BOG0501-DUP1	Duplicate	ND	ND		ug/L			200		
		BOG0501-MS1	Matrix Spike	ND	194.19	204.08	ug/L		95.2		75 - 125	
		BOG0501-MSD1	Matrix Spike Duplicate	ND	196.36	204.08	ug/L	1.04	96.2	20	75 - 125	
Total Iron	BOH0464	BOH0464-DUP1	Duplicate	10967	10724		ug/L	2.24		200		
		BOH0464-MS1	Matrix Spike	10967	13325	400.00	ug/L		590		75 - 125	A03
		BOH0464-MSD1	Matrix Spike Duplicate	10967	13670	400.00	ug/L	13.6	676	20	75 - 125	A03

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

4100 Atlas Court • Bakersfield, CA 93308 • (661) 327-4911 • Fax (661) 327-1918 • www.bclabs.com

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

Project: 0353
Project Number: [none]
Project Manager: Anju Farfan

Reported: 07/20/05 15:02

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
Benzene	BOG0427	BOG0427-BS1	LCS	23.530	25.000	1.0	ug/L	94.1		70 - 130		
Toluene	BOG0427	BOG0427-BS1	LCS	21.430	25.000	1.0	ug/L	85.7		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BOG0427	BOG0427-BS1	LCS	10.180	10.000		ug/L	102		76 - 114		
Toluene-d8 (Surrogate)	BOG0427	BOG0427-BS1	LCS	10.030	10.000		ug/L	100		88 - 110		
4-Bromofluorobenzene (Surrogate)	BOG0427	BOG0427-BS1	LCS	10.330	10.000		ug/L	103		86 - 115		
Benzene	BOG0569	BOG0569-BS1	LCS	28.730	25.000	1.0	ug/L	115		70 - 130		
Toluene	BOG0569	BOG0569-BS1	LCS	25.200	25.000	1.0	ug/L	101		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BOG0569	BOG0569-BS1	LCS	10.250	10.000		ug/L	102		76 - 114		
Toluene-d8 (Surrogate)	BOG0569	BOG0569-BS1	LCS	9.8700	10.000		ug/L	98.7		88 - 110		
4-Bromofluorobenzene (Surrogate)	BOG0569	BOG0569-BS1	LCS	10.330	10.000		ug/L	103		86 - 115		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

4100 Atlas Court • Bakersfield, CA 93308 • (661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

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

Project: 0353
Project Number: [none]
Project Manager: Anju Farfan

Reported: 07/20/05 15:02

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
Nitrate as N	BOG0170	BOG0170-BS1	LCS	5.1990	5.0505	0.10	mg/L	103		90 - 110		
Sulfate	BOG0170	BOG0170-BS1	LCS	102.92	101.01	1.0	mg/L	102		90 - 110		
Iron (II) Species	BOG0186	BOG0186-BS1	LCS	1972.7	2000.0	100	ug/L	98.6		90 - 110		
Total Alkalinity as CaCO3	BOG0737	BOG0737-BS1	LCS	104.11	100.00	2.5	mg/L	104		90 - 110		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

4100 Atlas Court • Bakersfield, CA 93308 • (661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

BC Laboratories, Inc

TRC Alton Geoscience 21 Technology Drive Irvine CA, 92618-2302	Project: 0353 Project Number: [none] Project Manager: Anju Farfan	**Reported:** 08/09/05 14:04

Water Analysis (Metals)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
Manganese	BOG0501	BOG0501-BS1	LCS	202.28	204.08	10	ug/L	99.1		85 - 115		
Total Iron	BOH0464	BOH0464-BS1	LCS	416.90	400.00	50	ug/L	104		85 - 115		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

4100 Atlas Court • Bakersfield, CA 93308 • (661) 327-4911 • Fax (661) 327-1918 • www.bclabs.com

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

Project: 0353
Project Number: [none]
Project Manager: Anju Farfan

Reported: 07/20/05 15:02

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Benzene	BOG0427	BOG0427-BLK1	ND	ug/L	1.0	0.12	
Ethylbenzene	BOG0427	BOG0427-BLK1	ND	ug/L	1.0	0.13	
Methyl t-butyl ether	BOG0427	BOG0427-BLK1	ND	ug/L	2.0	0.15	
Toluene	BOG0427	BOG0427-BLK1	ND	ug/L	1.0	0.15	
Total Xylenes	BOG0427	BOG0427-BLK1	ND	ug/L	1.0	0.40	
t-Amyl Methyl ether	BOG0427	BOG0427-BLK1	ND	ug/L	2.0	0.31	
t-Butyl alcohol	BOG0427	BOG0427-BLK1	ND	ug/L	10	10	
Diisopropyl ether	BOG0427	BOG0427-BLK1	ND	ug/L	2.0	0.25	
Ethanol	BOG0427	BOG0427-BLK1	ND	ug/L	1000	110	
Ethyl t-butyl ether	BOG0427	BOG0427-BLK1	ND	ug/L	2.0	0.27	
Total Purgeable Petroleum Hydrocarbons	BOG0427	BOG0427-BLK1	ND	ug/L	50	23	
1,2-Dichloroethane-d4 (Surrogate)	BOG0427	BOG0427-BLK1	102	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BOG0427	BOG0427-BLK1	99.5	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BOG0427	BOG0427-BLK1	93.8	%	86 - 115 (LCL - UCL)		
Benzene	BOG0569	BOG0569-BLK1	ND	ug/L	1.0	0.13	
Ethylbenzene	BOG0569	BOG0569-BLK1	ND	ug/L	1.0	0.14	
Methyl t-butyl ether	BOG0569	BOG0569-BLK1	ND	ug/L	2.0	0.15	
Toluene	BOG0569	BOG0569-BLK1	ND	ug/L	1.0	0.15	
Total Xylenes	BOG0569	BOG0569-BLK1	ND	ug/L	1.0	0.40	
t-Amyl Methyl ether	BOG0569	BOG0569-BLK1	ND	ug/L	2.0	0.31	
t-Butyl alcohol	BOG0569	BOG0569-BLK1	ND	ug/L	10	10	
Diisopropyl ether	BOG0569	BOG0569-BLK1	ND	ug/L	2.0	0.23	
Ethanol	BOG0569	BOG0569-BLK1	ND	ug/L	1000	110	
Ethyl t-butyl ether	BOG0569	BOG0569-BLK1	ND	ug/L	2.0	0.27	
Total Purgeable Petroleum Hydrocarbons	BOG0569	BOG0569-BLK1	ND	ug/L	50	23	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

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

Project: 0353
Project Number: [none]
Project Manager: Anju Farfan

Reported: 07/20/05 15:02

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
1,2-Dichloroethane-d4 (Surrogate)	BOG0569	BOG0569-BLK1	96.6	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BOG0569	BOG0569-BLK1	98.4	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BOG0569	BOG0569-BLK1	93.9	%	86 - 115 (LCL - UCL)		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

4100 Atlas Court • Bakersfield, CA 93308 • (661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

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

Project: 0353
Project Number: [none]
Project Manager: Anju Farfan

Reported: 07/20/05 15:02

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Nitrate as N	BOG0170	BOG0170-BLK1	ND	mg/L	0.10	0.018	
Sulfate	BOG0170	BOG0170-BLK1	ND	mg/L	1.0	0.098	
Iron (II) Species	BOG0186	BOG0186-BLK1	ND	ug/L	100	100	
Iron (III) Species	BOG0204	BOG0204-BLK1	ND	ug/L	100	100	
Total Alkalinity as CaCO3	BOG0737	BOG0737-BLK1	ND	mg/L	2.5	2.5	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

BC Laboratories, Inc

TRC Alton Geoscience 21 Technology Drive Irvine CA, 92618-2302	Project: 0353 Project Number: [none] Project Manager: Anju Farfan	**Reported:** 08/09/05 14:04

Water Analysis (Metals)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Manganese	BOG0501	BOG0501-BLK1	ND	ug/L	10	2.1	
Total Iron	BOH0464	BOH0464-BLK1	ND	ug/L	50	16	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

4100 Atlas Court • Bakersfield, CA 93308 • (661) 327-4911 • Fax (661) 327-1918 • www.bclabs.com

TRC Alton Geoscience 21 Technology Drive Irvine CA, 92618-2302	Project: 0353 Project Number: [none] Project Manager: Anju Farfan	**Reported:** 07/20/05 15:02

Notes and Definitions

J	Estimated value
A53	Chromatogram not typical of gasoline.
A01	PQL's and MDL's are raised due to sample dilution.
ND	Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 10 01/21/04 Page ___ Of ___

Submission #: 05-6571 | Project Code: | TB Batch #

SHIPPING INFORMATION
Federal Express ☐ UPS ☑ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☑ Comments:

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

COC Received ☑ YES ☐ NO

Ice Chest ID B/W Emissivity .93
Temperature: .2 °C Container QTPC
Thermometer ID: 48

Date/Time 7/5/05 17:16
Analyst Init NVI

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

SHORT HOLDING TIME
Cr^{+6} NO_2 NO_3 OP SS
DO BOD MBAS C O T

CHK BY: OTO
DISTRIBUTION: MA MVI SLC JKR
SUB-OUT ☐

Comments:
Sample Numbering Completed By: NVI Date/Time: 7/5/05 19:10

[H:\DOCS\WP80\LAB_DOCS\FORMS\SAMREC2.WPD]

05-6571

SHORT HOLDING Time

BC LABORATORIES, INC.

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

CHAIN OF CUSTODY

Analysis Requested

Circle one: Phillips 66 / Unocal	Consultant Firm: TRC	MATRIX (GW) Ground-water (S) Soil (WW) Waste-water (SL) Sludge	BTEX/MTBE by 8021B, Gas by 8015	TPH GAS by 8015M	TPH DIESEL by 8015	8260 full list w/ MTBE & oxygenates	BTEX/MTBE/OXYS BY 8260B	ETHANOL by 8260B	TPPH by 8260B	Ferrous IRON, Nitrate	Ferric IRON Sulfate	Dissolved manganese, Total Alkalinity	Turnaround Time Requested 4 WKS
Address: 200 South Central Ave	21 Techology Drive Irvine, CA 92618-2302 Attn: Anju Farfan												
City: Glendale	4-digit site#: 0353												
	Workorder # 4711TRC501												
State: CA Zip:	Project #: 20040083												
Phillips 66 / Unocal Mgr:	Sampler Name: HAFICENSCHEID												

Lab#	Sample Description	Field Point Name	Date & Time Sampled											
-1	mw-7	0353	7/5/05 0735	GW					X	X	X	X	X	X
-2	mw-4	↓	↓ 0625	↓					↓	↓	↓	↓	↓	↓
-3	mw-3	↓	↓ 0646	↓					↓	↓	↓	↓	↓	↓
-4	mw-8	↓	↓ 0800	↓					↓	↓	↓			↓

Comments:	Relinquished by: (Signature)	Received by:	Date & Time
GLOBAL ID: T0603728619	Relinquished by: (Signature)	Received by:	Date & Time 7-5-05 1310
	Relinquished by: (Signature)	Received by:	Date & Time 7/5/05 17:15

(A) = ANALYSIS (C) = CONTAINER (P) = PRESERVATIVE

SHORT HOLDING Time

05-6571

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

CHAIN OF CUSTODY

Analysis Requested

Circle one: Phillips 66 / Unocal

Consultant Firm: TRC

Address: 200 S CENTRAL AVE

21 Techology Drive
Irvine, CA 92618-2302
Attn: Anju Farfan

City: Glendale

4-digit site#: 0353

Workorder # 4711TRC501

State: CA Zip:

Project #: 20040023

Phillips 66 /Unocal Mgr: AF

Sampler Name: CARRILLO

MATRIX (GW) Ground water (S) Soil (WW) Waste-water (SL) Sludge

Lab#	Sample Description	Field Point Name	Date & Time Sampled		MATRIX	BTEX/MTBE by 8021B, Gas by 8015	TPH GAS by 8015M	TPH DIESEL by 8015	8260 full list w/ MTBE & oxygenates	BTEX/MTBE/OXYS BY 8260B	ETHANOL by 8260B	TPPH by 8260B				Turnaround Time Requested
-5	MW-1		7/5/05	0655	GW					X	X	X				STD
-6	MW-5			0721												
-7	MW-2			0753												
-8	MW-9			0620												
-9	MW-6			0827						X	X	X				STD

Comments:

GLOBAL ID: T0603728619

Relinquished by: (Signature) [signature]

Relinquished by: (Signature) [signature]

Relinquished by: (Signature) [signature]

Received by: [signature]

Received by: [signature]

Received by: [signature]

Date & Time

Date & Time 7-5-05 1310

Date & Time 7/5/05 17:15

(A) = ANALYSIS (C) = CONTAINER (P) = PRESERVATIVE

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. Not Required	Manifest Document No. 00001	2. Page 1 of	4629 -1

3. Generator's Name and Mailing Address
Conoco - Phillips Oil Company
600 N. Dairy Ashford, Houston Tx. 77079
4. Generator's Phone ( ) 281-293-1684

5. Transporter 1 Company Name	6. US EPA ID Number	A. Transporter's Phone
Pacific Technical Services	CAR000159806	562-984-3018
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	C. Facility's Phone
Crosby & Overton 1630 W. 16th St. Long Beach CA 90810	CAD028409019	562-432-5445

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non Hazardous Waste Liquids	001	TT	357	G
b.				
c.				
d.				

15. Additional Descriptions for Materials Listed Above
Tot. Profile #: 25903 - Groundwater

E. Handling Codes for Wastes Listed Above
A. 15 B.
C. D.

16. Special Handling Instructions and Additional Information

Wear proper protective equipment while handling. Weights or volumes are approximate. 24-hour emergency telephone number (562) 984-3018
Site # 0353 Location: 200 S. CONTERAL GLENDALE CA

17. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Gordon Clemmer Agent for Conoco / Phillips	[signature]	07	11	05

18. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[signature]	07	11	05

19. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

20. Discrepancy Indication Space

21. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[signature]	07	11	05

TRANSPORTER # 1

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.