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Customer-Focused Solutions

✓ RO 123

January 21, 2005

Project 41-0236

Mr. Amir Gholani
Alameda County Health Care Services Agency
Department of Environmental Health
Hazardous Materials Program
1131 Harbor Bay Parkway
Alameda, California 94502-6577

RECEIVED
JAN 24 2005
ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS PROGRAM

SITE: QUIK STOP MARKET NO. 56
3132 BEAUMONT AVENUE
OAKLAND, CALIFORNIA

RE: QUARTERLY GROUNDWATER MONITORING REPORT, FOURTH QUARTER 2004

Dear Mr. Gholani:

Enclosed is a copy of the *Fourth Quarter 2004 Quarterly Groundwater Monitoring Report* for the property located at 3132 Beaumont Avenue in Oakland, California. This report is submitted on behalf of our client, Quik Stop Markets, Inc.

Please direct all questions and correspondence to:

Mr. Mike Karvelot
Quik Stop Markets, Inc.
4567 Enterprise Street
Fremont, California 94538
Phone: (510) 657-8500

Sincerely,



Jonathan Scheiner
Associate

cc: Mr. Mike Karvelot, Quik Stop Markets, Inc.



Customer-Focused Solutions

January 21, 2005

Project 41-0236

Mr. Mike Karvelot
Quik Stop Markets, Inc.
4567 Enterprise Street
Fremont, California 94538

ALAMEDA COUNTY
JAN 21 2005
COUNTY CLERK

SITE: QUIK STOP MARKET NO. 56
3132 BEAUMONT AVENUE
OAKLAND, CALIFORNIA

RE: QUARTERLY GROUNDWATER MONITORING REPORT, FOURTH QUARTER 2004

Dear Mr. Karvelot:

This *Fourth Quarter 2004 Quarterly Groundwater Monitoring Report* presents the results of the Fourth Quarter 2004 fluid level monitoring and groundwater sampling at the above-referenced site (Figure 1). The work at this site was performed in accordance with the requirements of the Alameda County Health Care Services Agency, Department of Environmental Health (ACDEH).

1.0 FLUID-LEVEL MONITORING

Fluid levels were measured in onsite monitoring wells MW-1, MW-2, and MW-3 on December 17, 2004. Groundwater elevations averaged 129.23 feet above mean sea level (MSL). Groundwater flow direction was to the west at a gradient of 0.06. Refer to Table 1 for fluid-level monitoring data. Figure 2 is a groundwater elevation contour map based on the fluid-level measurements. A description of fluid-level monitoring procedures is included in the Appendix.

2.0 GROUNDWATER SAMPLING

On December 17, 2004, groundwater samples were collected from onsite wells MW-1, MW-2, and MW-3. Groundwater samples were submitted to a state-certified laboratory for analysis of total petroleum hydrocarbons as gasoline (TPH-G); benzene, toluene, ethylbenzene, and total xylenes (BTEX); and methyl tert-butyl ether (MTBE), using EPA Methods 8015B and 8260B. Refer to Table 1 and Figure 3 for a summary of analytical results. General Field Procedures, Field Measurement Forms, Official Laboratory Reports, and Chain of Custody Records are included in the Appendix.

Approximately 45 gallons of purge water were generated during groundwater sampling activities conducted on December 17, 2004. The purge water was stored onsite in one Department of Transportation-approved 55-gallon drum pending disposal.

3.0 LIST OF ATTACHMENTS

- Figure 1: Vicinity Map
- Figure 2: Groundwater Elevation Contour Map, December 17, 2004
- Figure 3: Dissolved-Phase Hydrocarbon Concentrations, December 17, 2004
- Table 1: Summary of Groundwater Levels and Chemical Analysis
- Appendix: General Field Procedures, Field Measurement Forms, Official Laboratory Reports, and Chain of Custody Records

If you have any questions regarding this report, please call me at (925) 688-2473.

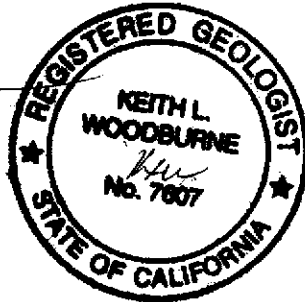
Sincerely,



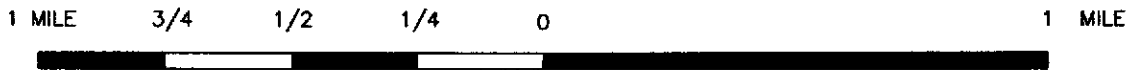
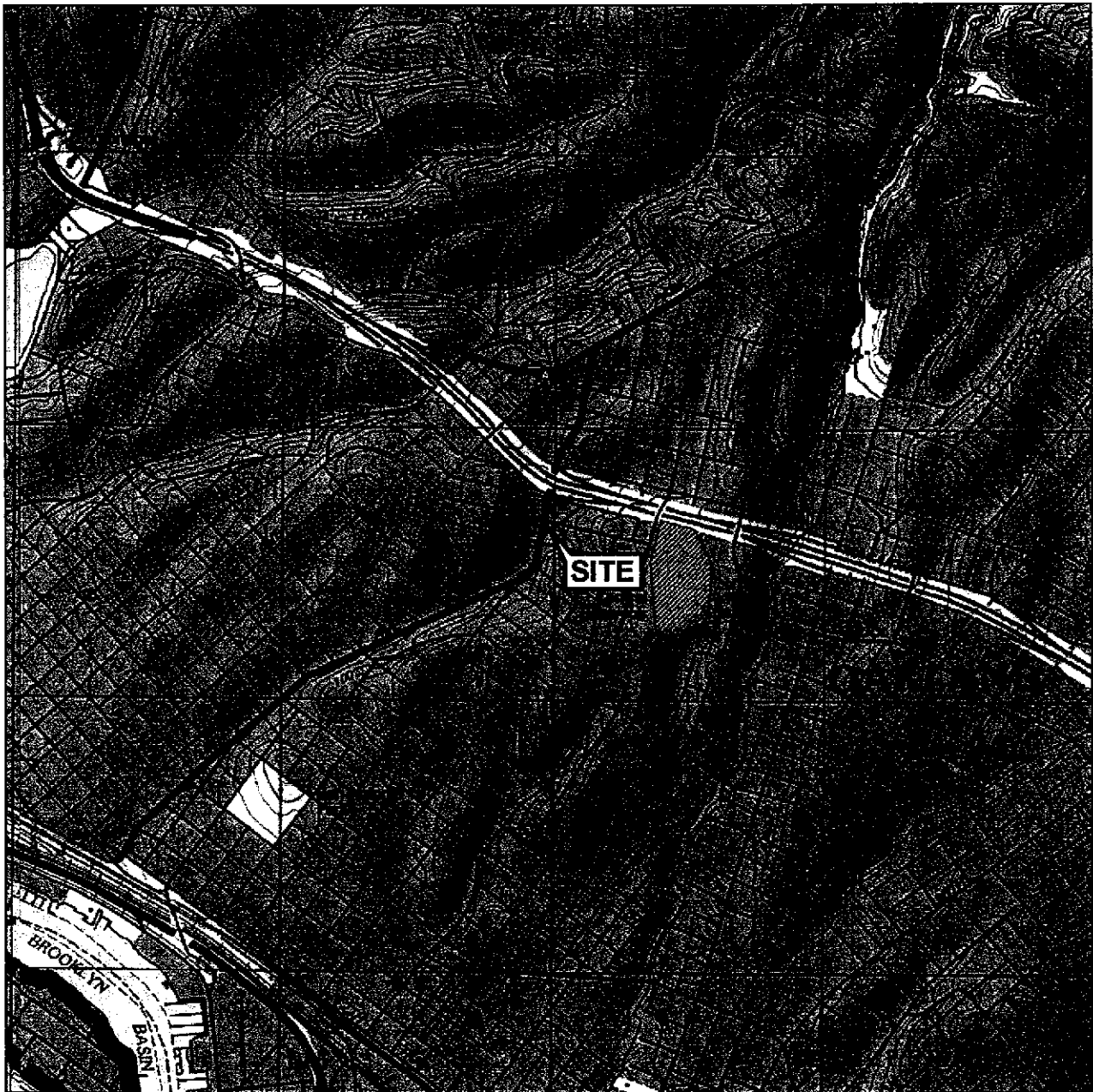
Jonathan Scheiner
Associate



Keith Woodburne, R.G.
Senior Project Geologist



FIGURES



SCALE 1 : 24,000



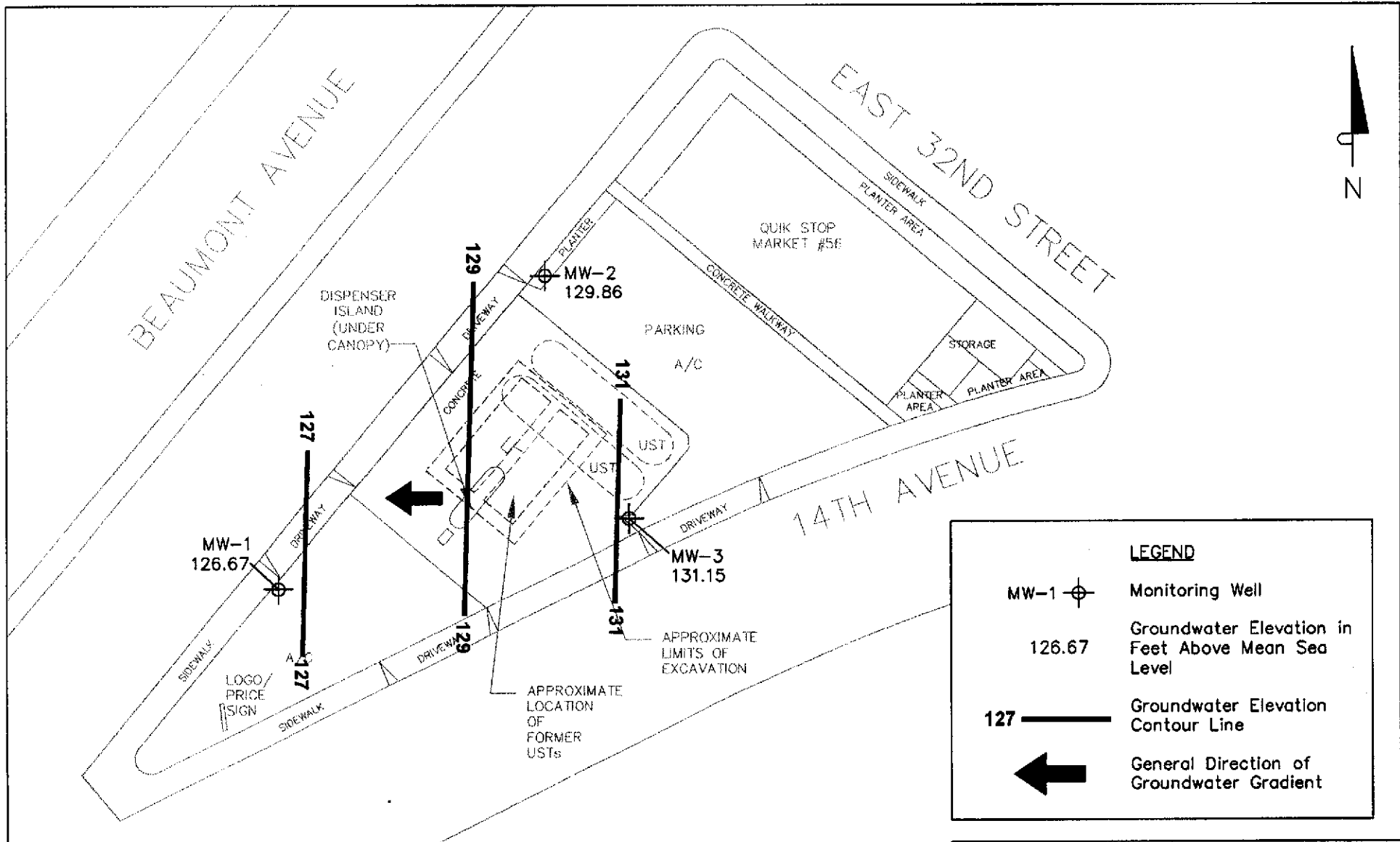
SOURCE:
 United States Geological Survey
 7.5 Minute Topographic Maps:
 Oakland East and
 Oakland West Quadrangles




VICINITY MAP

Quik Stop No. 56
 3132 Beaumont Avenue
 Oakland, California

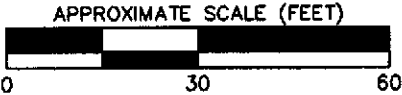
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FIGURE 1

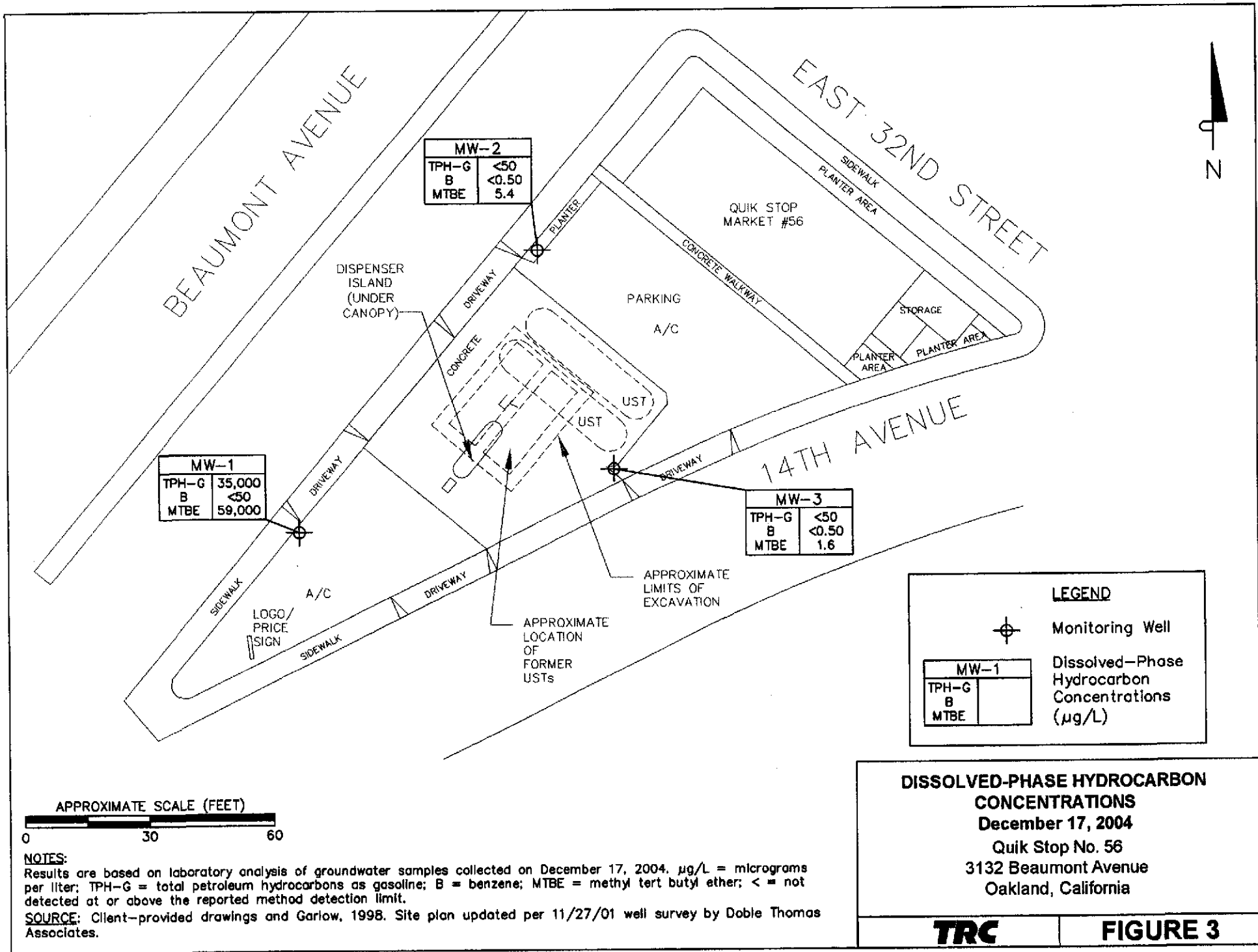


LEGEND	
MW-1 	Monitoring Well
126.67	Groundwater Elevation in Feet Above Mean Sea Level
127 	Groundwater Elevation Contour Line
	General Direction of Groundwater Gradient

**GROUNDWATER ELEVATION
 CONTOUR MAP**
 December 17, 2004
 Quik Stop No. 56
 3132 Beaumont Avenue
 Oakland, California



NOTES:
 Contour lines are interpretive based on fluid level measurements taken on December 17, 2004.
 Contour interval = 2 feet.
SOURCE: Client-provided drawings and Garlow, 1998. Site plan updated per 11/27/01 well survey by Doble Thomas Associates.



TABLE

Table 1
Summary of Groundwater Levels and Chemical Analysis
 Quik Stop No. 56 - 3132 Beaumont Avenue, Oakland

Sample ID	Date	Top of Casing Elevation (ft-MSL)	Depth to Water (feet)	Groundwater Elevation (feet)	TPH-G (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8260 (µg/L)	DO (mg/L)
MW-1	03/02/00	131.58	10.33	121.25	670	<1.0	<1.0	<1.0	<1.0	2,200	0.62
MW-1	11/16/00	131.58	11.86	119.72	<500	<0.5	<0.5	<0.5	<0.5	18,000	0.34
MW-1	01/23/01	131.58	11.05	120.53	6,400	<10	<10	<10	<10	21,000	0.83
MW-1	04/25/01	131.58	12.06	119.52	12,000	<20	<20	<20	<20	17,000	0.39
MW-1	07/24/01	131.58	12.42	119.16	8,800	<13	<13	<13	<13	14,000	7.61
MW-1	11/08/01	131.58	12.00	119.58	18,000	<25	<25	<25	<25	28,000	—
MW-1	11/27/01	134.13	Well resurveyed to new reference point								
MW-1	02/05/02	134.13	10.99	123.14	28,000	<50	<50	<50	<50	44,000	—
MW-1	04/29/02	134.13	10.97	123.16	12,000	<25	<25	<25	<25	30,000	—
MW-1	07/29/02	134.13	10.20	123.93	16,000	<25	<25	<25	<25	22,000	—
MW-1	10/21/02	134.13	10.48	123.65	17,000	<50	<50	<50	<50	39,000	—
MW-1	03/05/03	134.13	8.94	125.19	40,000	<100	<100	<100	<100	69,000	—
MW-1	06/06/03	134.13	8.68	125.45	27,000	<50	<50	<50	<50	63,000	—
MW-1	09/05/03	134.13	9.21	124.92	28,000	<25	<25	<25	<25	51,000	—
MW-1	12/24/03	134.13	8.65	125.48	29,000	<50	<50	<50	<50	84,000	—
MW-1	03/25/04	134.13	8.66	125.47	39,000	<100	<100	<100	<100	72,000	—
MW-1	06/25/04	134.13	8.66	125.47	50,000	<100	<100	<100	<100	90,000	—
MW-1	09/16/04	134.13	9.02	125.11	30,000	<50	<50	<50	<50	75,000	—
MW-1	12/17/04	134.13	7.46	126.67	35,000	<50	<50	<50	<50	59,000	—
MW-2	03/02/00	132.63	5.88	126.75	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.45
MW-2	11/16/00	132.63	6.40	126.23	<50	<0.5	<0.5	<0.5	<0.5	<1.0	1.67
MW-2	01/23/01	132.63	5.67	126.96	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.20
MW-2	04/25/01	132.63	6.26	126.37	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.76
MW-2	07/24/01	132.63	6.38	126.25	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.92
MW-2	11/08/01	132.63	5.97	126.66	<50	<0.50	<0.50	<0.50	<0.50	2.7	—
MW-2	11/27/01	135.16	Well resurveyed to new reference point								
MW-2	02/05/02	135.16	4.95	130.21	<50	<0.50	<0.50	<0.50	<0.50	2.7	—
MW-2	04/29/02	135.16	5.03	130.13	<50	<0.50	<0.50	<0.50	<0.50	2.8	—
MW-2	07/29/02	135.16	5.46	129.70	<50	<0.50	<0.50	<0.50	<0.50	4.1	—
MW-2	10/21/02	135.16	5.68	129.48	<50	<0.50	<0.50	<0.50	<0.50	8.1	—
MW-2	03/05/03	135.16	4.87	130.29	<50	1.4	<0.50	0.61	0.69	5.5	—
MW-2	06/06/03	135.16	4.88	130.28	<50	<0.50	<0.50	<0.50	<0.50	5.2	—
MW-2	09/05/03	135.16	5.60	129.56	<50	<0.50	<0.50	<0.50	0.66	6.4	—
MW-2	12/24/03	135.16	5.25	129.91	<50	<0.50	<0.50	<0.50	<0.50	5.4	—

Summary of Groundwater Levels and Chemical Analysis

Quik Stop No. 56 - 3132 Beaumont Avenue, Oakland

Sample ID	Date	Top of		Groundwater			Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8260 (µg/L)	DO (mg/L)	
		Casing Elevation (ft-MSL)	Depth to Water (feet)	Elevation (feet)	TPH-G (µg/L)	Benzene (µg/L)					Toluene (µg/L)
MW-2	03/25/04	135.16	5.25	129.91	<50	<0.50	<0.50	<0.50	5.3	—	
MW-2	06/25/04	135.16	6.89	128.27	<50	<0.50	<0.50	<0.50	5.4	—	
MW-2	09/16/04	135.16	6.09	129.07	<50	<0.50	<0.50	<0.50	5.5	—	
MW-2	12/17/04	135.16	5.30	129.86	<50	<0.50	<0.50	<0.50	5.4	—	
MW-3	03/02/00	133.78	6.41	127.37	<50	<0.50	<0.50	<0.50	0.96	0.90	
MW-3	11/16/00	133.78	6.46	127.32	<50	<0.5	<0.5	<0.5	24	3.91	
MW-3	01/23/01	133.78	5.75	128.03	<50	<0.50	<0.50	<0.50	72	1.47	
MW-3	04/25/01	133.78	5.90	127.88	<50	<0.50	<0.50	<0.50	25	0.56	
MW-3	07/24/01	133.78	6.56	127.22	<50	<0.50	0.79	0.73	0.68	6.67	
MW-3	11/08/01	133.78	6.92	126.86	<50	<0.50	<0.50	<0.50	14	—	
MW-3	11/27/01	136.35	Well resurveyed to new reference point								
MW-3	02/05/02	136.35	5.13	131.22	<50	<0.50	<0.50	<0.50	10	—	
MW-3	04/29/02	136.35	5.67	130.68	<50	<0.50	<0.50	<0.50	5.1	—	
MW-3	07/29/02	136.35	6.11	130.24	<50	<0.50	<0.50	<0.50	31	—	
MW-3	10/21/02	136.35	6.57	129.78	<50	<0.50	<0.50	<0.50	5.8	—	
MW-3	01/06/04	136.35	5.02	131.33	<50	<0.50	<0.50	<0.50	4.9	—	
MW-3	06/06/03	136.35	5.12	131.23	<50	<0.50	<0.50	<0.50	6.6	—	
MW-3	09/05/03	136.35	6.53	129.82	<50	<0.50	<0.50	<0.50	4.4	—	
MW-3	12/24/03	136.35	5.20	131.15	<50	<0.50	<0.50	<0.50	1.2	—	
MW-3	03/25/04	136.35	5.42	130.93	<50	<0.50	<0.50	<0.50	3.2	—	
MW-3	06/25/04	136.35	6.50	129.85	<50	<0.50	<0.50	<0.50	13	—	
MW-3	09/16/04	136.35	6.79	129.56	<50	<0.50	<0.50	<0.50	3.0	—	
MW-3	12/17/04	136.35	5.20	131.15	<50	<0.50	<0.50	<0.50	1.6	—	

NOTES:

- ft-MSL = feet above mean sea level
- µg/L = micrograms per liter
- mg/L = milligrams per liter
- TPH-G = total petroleum hydrocarbons as gasoline
- MTBE = methyl tert butyl ether
- DO = dissolved oxygen
- < = not detected at or above the stated detection limit

APPENDIX

**GENERAL FIELD PROCEDURES, FIELD MEASUREMENT FORMS, OFFICIAL
LABORATORY REPORTS, AND CHAIN OF CUSTODY RECORDS**

GENERAL FIELD PROCEDURES

General field procedures used during fluid-level monitoring and groundwater sampling activities are described below.

FLUID-LEVEL MONITORING

Fluid levels are monitored in the wells using an electronic interface probe with conductance sensors. The presence of liquid-phase hydrocarbons is verified using a hydrocarbon-reactive paste. The depth to liquid-phase hydrocarbons and water is measured relative to the well box top or top of casing. Well box or casing elevations are surveyed to within 0.02 foot relative to a county or city benchmark.

GROUNDWATER SAMPLING

Groundwater monitoring wells are purged and sampled in accordance with standard regulatory protocol. Typically, monitoring wells that contain no liquid-phase hydrocarbons are purged of groundwater prior to sampling so that fluids sampled are representative of fluids within the formation. Temperature, pH, and specific conductance are typically measured after each well casing volume has been removed. Purging is considered complete when these parameters vary less than 10% from the previous readings, or when four casing volumes of fluid have been removed. Samples are collected without further purging if the well does not recharge within 2 hours to 80% of its volume before purging.

The purged water is stored in labeled drums prior to transport to an appropriate treatment or recycling facility. If an automatic recovery system (ARS) is operating at the site, purged water may be pumped into the ARS for treatment.

Groundwater samples are collected by lowering a 1.5-inch-diameter, bottom-fill, disposable polyethylene bailer just below the static water level in the well. The samples are carefully transferred from the check-valve-equipped bailer to 1-liter and 40-milliliter glass containers. The sample containers are filled to zero headspace and fitted with Teflon-sealed caps. Each sample is labeled with the project number, well number, sample date, and sampler's initials. Samples remain chilled at approximately 4°C prior to analysis by a state-certified laboratory.

FLUID MEASUREMENT FIELD FORM

Project No.: 41023608

TRC Alton Personnel: James Chidester

Station No.: Quik Stop#56

Date: 12/17/04

Well Number	Screen Interval	Depth to Water	Depth to Product	Free Product Thickness (ft)	Free Product Recovery	Total Depth	Dissolved O ₂ (mg/L)	Comments
MW-2		5.30				29.91		
MW-3		5.20				30.62		
MW-1		7.46				29.84		

GROUND WATER SAMPLING FIELD NOTES

Site: Quik Stop # 56 Project No.: 41023608 Sampled By: J. Chidester Date: 12/17/04

Well No. MW-2 Purge Method: 2" elec. Well No. MW-3 Purge Method: 2" elec.
 Total Depth (feet) 29.91 Depth to Product (feet): - Total Depth (feet) 30.62 Depth to Product (feet): -
 Depth to Water (feet): 5.30 Product Recovered (gallons): - Depth to Water (feet): 5.20 Product Recovered (gallons): -
 Water Column (feet): 24.61 Casing Diameter (Inches): 2" Water Column (feet): 25.42 Casing Diameter (Inches): 2"
 80% Recharge Depth (feet): 10.22 Well Volume (gallons): 3.94 80% Recharge Depth (feet): 10.28 Well Volume (gallons): 4.07

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conduc- tivity (uS/cm)	Temper- ature (F, C)	pH
923				1.34	67.8	6.15
	944			1.27	69.4	6.08
	951			1.28	68.3	6.08
Total Purged			12	Time Sampled		11020

Comments: Rem Dry @ 10 gal.
 Turbidity = Batt. on generator died @ 941

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conduc- tivity (uS/cm)	Temper- ature (F, C)	pH
1020				0.88	70.8	6.31
				0.87	70.3	6.25
	1053			0.87	70.9	6.28
Total Purged			12	Time Sampled		1120

Comments:
 Turbidity =

Well No. MW-1 Purge Method: 2" elec. Well No. _____ Purge Method: _____
 Total Depth (feet) 29.84 Depth to Product (feet): - Total Depth (feet) _____ Depth to Product (feet): _____
 Depth to Water (feet): 7.46 Product Recovered (gallons): - Depth to Water (feet): _____ Product Recovered (gallons): _____
 Water Column (feet): 22.38 Casing Diameter (Inches): 2" Water Column (feet): _____ Casing Diameter (Inches): _____
 80% Recharge Depth (feet): 11.94 Well Volume (gallons): 3.58 80% Recharge Depth (feet): _____ Well Volume (gallons): _____

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conduc- tivity (uS/cm)	Temper- ature (F, C)	pH
1138				0.86	68.3	6.04
				0.87	69.6	6.03
	1149			0.87	69.8	6.04
Total Purged			11	Time Sampled		1230

Comments:
 Turbidity =

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conduc- tivity (uS/cm)	Temper- ature (F, C)	pH
Total Purged				Time Sampled		

Comments:
 Turbidity =

Well No. _____ Purge Method: _____ Well No. _____ Purge Method: _____
 Total Depth (feet) _____ Depth to Product (feet): _____ Total Depth (feet) _____ Depth to Product (feet): _____
 Depth to Water (feet): _____ Product Recovered (gallons): _____ Depth to Water (feet): _____ Product Recovered (gallons): _____
 Water Column (feet): _____ Casing Diameter (Inches): _____ Water Column (feet): _____ Casing Diameter (Inches): _____
 80% Recharge Depth (feet): _____ Well Volume (gallons): _____ 80% Recharge Depth (feet): _____ Well Volume (gallons): _____

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conduc- tivity (uS/cm)	Temper- ature (F, C)	pH
Total Purged				Time Sampled		

Comments:
 Turbidity =

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conduc- tivity (uS/cm)	Temper- ature (F, C)	pH
Total Purged				Time Sampled		

Comments:
 Turbidity =



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

TRC-Alton Geoscience
1590 Solano Way Suite A
Concord, CA 94520

Attn: James Chidester
Phone: (925) 688-1200
Fax: (925) 688-0388
Date Received 12/21/04

Job#: 41023608

Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B/DHS LUFT Manual
Volatile Organic Compounds (VOCs) EPA Method SW8260B

	Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID :	TPH Purgeable	ND	50 µg/L	12/17/04	12/28/04
MW-2	Methyl tert-butyl ether (MTBE)	5.4	0.50 µg/L	12/17/04	12/28/04
Lab ID :	Benzene	ND	0.50 µg/L	12/17/04	12/28/04
TRC04122165-01A	Toluene	ND	0.50 µg/L	12/17/04	12/28/04
	Ethylbenzene	ND	0.50 µg/L	12/17/04	12/28/04
	Xylenes, Total	ND	0.50 µg/L	12/17/04	12/28/04
Client ID :	TPH Purgeable	ND	50 µg/L	12/17/04	12/28/04
MW-3	Methyl tert-butyl ether (MTBE)	1.6	0.50 µg/L	12/17/04	12/28/04
Lab ID :	Benzene	ND	0.50 µg/L	12/17/04	12/28/04
TRC04122165-02A	Toluene	ND	0.50 µg/L	12/17/04	12/28/04
	Ethylbenzene	ND	0.50 µg/L	12/17/04	12/28/04
	Xylenes, Total	ND	0.50 µg/L	12/17/04	12/28/04
Client ID :	TPH Purgeable	35,000 *	10,000 µg/L	12/17/04	12/28/04
MW-1	Methyl tert-butyl ether (MTBE)	59,000	50 µg/L	12/17/04	12/28/04
Lab ID :	Benzene	ND	V	50 µg/L	12/17/04
TRC04122165-03A	Toluene	ND	V	50 µg/L	12/17/04
	Ethylbenzene	ND	V	50 µg/L	12/17/04
	Xylenes, Total	ND	V	50 µg/L	12/17/04

*Note: The TPH Purgeable is composed almost entirely of MtBE.

Reported in micrograms per liter, per client request.

V = Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / info@alpha-analytical.com

1/5/05
Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

VOC pH Report

Work Order TRC04122165

Project: 41023608

Alpha's Sample ID	Client's Sample ID	Matrix	pH
04122165-01A	MW-2	Aqueous	2
04122165-02A	MW-3	Aqueous	2
04122165-03A	MW-1	Aqueous	2

1/5/05

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
07-Jan-05

QC Summary Report

Work Order:
04122165

Method Blank

Type: MBLK Test Code: EPA Method SW8015B/DHS LUFT Manual

File ID: D:\MSDCHEM\MS12\DATA\041228\04122806.D

Batch ID: MS12W1228B

Analysis Date: 12/28/2004 09:58

Sample ID: MBLK MS12W1228B

Units : mg/L

Run ID: MSD_12_041228A

Prep Date: 12/28/2004

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH Purgeable	ND	0.05								
Surr: 1,2-Dichloroethane-d4	0.0114		0.01		114	72	126			
Surr: Toluene-d8	0.00931		0.01		93	71	128			
Surr: 4-Bromofluorobenzene	0.00924		0.01		92	76	121			

Laboratory Control Spike

Type: LCS Test Code: EPA Method SW8015B/DHS LUFT Manual

File ID: D:\MSDCHEM\MS12\DATA\041228\04122804.D

Batch ID: MS12W1228B

Analysis Date: 12/28/2004 09:16

Sample ID: GLCS MS12W1228B

Units : mg/L

Run ID: MSD_12_041228A

Prep Date: 12/28/2004

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH Purgeable	0.425	0.05	0.4		106	67	136			
Surr: 1,2-Dichloroethane-d4	0.0114		0.01		114	72	126			
Surr: Toluene-d8	0.00935		0.01		94	71	128			
Surr: 4-Bromofluorobenzene	0.00949		0.01		95	76	121			

Sample Matrix Spike

Type: MS Test Code: EPA Method SW8015B/DHS LUFT Manual

File ID: D:\MSDCHEM\MS12\DATA\041228\04122809.D

Batch ID: MS12W1228B

Analysis Date: 12/28/2004 11:50

Sample ID: 04122342-01AGS

Units : mg/L

Run ID: MSD_12_041228A

Prep Date: 12/28/2004

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH Purgeable	2.29	0.25	2	0.06886	111	54	154			
Surr: 1,2-Dichloroethane-d4	0.0593		0.05		119	72	126			
Surr: Toluene-d8	0.0467		0.05		93	71	128			
Surr: 4-Bromofluorobenzene	0.0472		0.05		94	76	121			

Sample Matrix Spike Duplicate

Type: MSD Test Code: EPA Method SW8015B/DHS LUFT Manual

File ID: D:\MSDCHEM\MS12\DATA\041228\04122810.D

Batch ID: MS12W1228B

Analysis Date: 12/28/2004 12:12

Sample ID: 04122342-01AGSD

Units : mg/L

Run ID: MSD_12_041228A

Prep Date: 12/28/2004

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
TPH Purgeable	2.37	0.25	2	0.06886	115	54	154	2.285	3.8(66)	
Surr: 1,2-Dichloroethane-d4	0.0602		0.05		120	72	126			
Surr: Toluene-d8	0.0469		0.05		94	71	128			
Surr: 4-Bromofluorobenzene	0.0466		0.05		93	76	121			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
07-Jan-05

QC Summary Report

Work Order:
04122165

Method Blank

Type: MBLK Test Code: EPA Method SW8260B

File ID: D:\MSDCHEM\MS12\DATA\041228\04122806.D

Batch ID: MS12W1228A

Analysis Date: 12/28/2004 09:58

Sample ID: MBLK MS12W1228A

Units: µg/L

Run ID: MSD_12_041228A

Prep Date: 12/28/2004

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	0.5								
Benzene	ND	0.5								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
Xylenes, Total	ND	0.5								
Surr: 1,2-Dichloroethane-d4	11.4		10		114	72	126			
Surr: Toluene-d8	9.31		10		93	71	128			
Surr: 4-Bromofluorobenzene	9.24		10		92	76	121			

Laboratory Control Spike

Type: LCS Test Code: EPA Method SW8260B

File ID: D:\MSDCHEM\MS12\DATA\041228\04122805.D

Batch ID: MS12W1228A

Analysis Date: 12/28/2004 09:37

Sample ID: LCS MS12W1228A

Units: µg/L

Run ID: MSD_12_041228A

Prep Date: 12/28/2004

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Benzene	9.66	0.5	10		97	83	119			
Toluene	9.67	0.5	10		97	80	120			
Ethylbenzene	10.1	0.5	10		101	80	120			
Xylenes, Total	20.9	0.5	20		105	77	125			
Surr: 1,2-Dichloroethane-d4	11.6		10		116	72	126			
Surr: Toluene-d8	9.64		10		96	71	128			
Surr: 4-Bromofluorobenzene	9.72		10		97	76	121			

Sample Matrix Spike

Type: MS Test Code: EPA Method SW8260B

File ID: D:\MSDCHEM\MS12\DATA\041228\04122807.D

Batch ID: MS12W1228A

Analysis Date: 12/28/2004 11:08

Sample ID: 04122342-01AMS

Units: µg/L

Run ID: MSD_12_041228A

Prep Date: 12/28/2004

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Benzene	41.6	1.3	50	0	83	59	145			
Toluene	44.9	1.3	50	0	90	39	161			
Ethylbenzene	48	1.3	50	0	96	57	145			
Xylenes, Total	96.8	1.3	100	0	97	37	163			
Surr: 1,2-Dichloroethane-d4	52.1		50		104	72	126			
Surr: Toluene-d8	51.4		50		103	71	128			
Surr: 4-Bromofluorobenzene	49.3		50		99	76	121			

Sample Matrix Spike Duplicate

Type: MSD Test Code: EPA Method SW8260B

File ID: D:\MSDCHEM\MS12\DATA\041228\04122808.D

Batch ID: MS12W1228A

Analysis Date: 12/28/2004 11:29

Sample ID: 04122342-01AMSD

Units: µg/L

Run ID: MSD_12_041228A

Prep Date: 12/28/2004


Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LowLimit	HighLimit	RPDRefVal	%RPD(Limit)	Qual
Benzene	45	1.3	50	0	90	59	145	41.57	7.9(22)	
Toluene	45.1	1.3	50	0	90	39	161	44.9	0.4(22)	
Ethylbenzene	47.4	1.3	50	0	95	57	145	47.99	1.3(22)	
Xylenes, Total	98	1.3	100	0	98	37	163	96.83	1.2(50)	
Surr: 1,2-Dichloroethane-d4	57.3		50		115	72	126			
Surr: Toluene-d8	48.3		50		97	71	128			
Surr: 4-Bromofluorobenzene	48.7		50		97	76	121			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Billing Information:

Name TRC
 Address 21 Technology Drive
 City, State, Zip Irvine CA 92618
 Phone Number (949) 753-0101 Fax (949) 753-0111



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 255 Glendale Avenue, Suite 21
 Sparks, Nevada 89431-5778
 Phone (775) 355-1044
 Fax (775) 355-0406

Samples Collected From Which State?

AZ ___ CA NV ___ WA ___
 ID ___ OR ___ OTHER ___ Page # 1 of 1

Analyses Required 05003

Client Name <u>TRC</u>			P.O. #		Job # <u>41023608</u>		Required QC Level? I II III IV EDD / EDF? YES ___ NO <input checked="" type="checkbox"/> Global ID # _____ REMARKS								
Address <u>1590 Solano Way, Ste. A</u>			Email Address <u>jchidester@trcsolutions.com</u>												
City, State, Zip <u>Concord, CA 94520</u>			Phone # <u>(925) 688-1200</u>		Fax # <u>(925) 688-0388</u>										
Matrix* See Key Below			Office Use Only		Sampled by <u>James Chidester</u>						Report Attention <u>James Chidester</u>		Total and type of containers ** See below		
Time Sampled	Date Sampled	Matrix* See Key Below	Lab ID Number	Sample Description	TAT	Field Filtered	TPH-G	BTEX	MTBE						
<u>10:30</u>	<u>12/20/04</u>	<u>AQ</u>	<u>TRC04122165-01</u>	<u>MW-2</u>	<u>STD</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
<u>11:20</u>	<u>12/20/04</u>	<u>AQ</u>	<u>02</u>	<u>MW 3</u>	<u>STD</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
<u>12:30</u>	<u>12/20/04</u>	<u>AQ</u>	<u>03</u>	<u>MW-1</u>	<u>STD</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						

ADDITIONAL INSTRUCTIONS:

Signature	Print Name	Company	Date	Time
<u>[Signature]</u>	<u>JAMES CHIDESTER</u>	<u>TRC</u>	<u>12/20/04</u>	<u>1335</u>
<u>[Signature]</u>	<u>[Signature]</u>	<u>Alpha</u>	<u>12/20/04</u>	<u>1235</u>
Relinquished by				
Received by				
Relinquished by				
Received by				
Relinquished by				
Received by				

*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other **: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other
 NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the report.