

Alameda County

JUL 1 7 2003

Environmental Health

July 15, 2003

Project 41-0236

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

SITE: QUIK STOP MARKET NO. 56

3132 BEAUMONT AVENUE OAKLAND, CALIFORNIA

RE: QUARTERLY GROUNDWATER MONITORING REPORT, SECOND QUARTER 2003

Dear Mr. Hwang:

Enclosed is a copy of the Second *Quarter 2003 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.



July 15, 2003

Alameda County

Project 41-0236

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

Fremont, California 94538

JUL 1 7 2003.

Environmental Health

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

RE:

QUARTERLY GROUNDWATER MONITORING REPORT, SECOND QUARTER 2003

Dear Mr. Karvelot:

This Second Quarter 2003 Groundwater Monitoring Report presents the results of the Second Quarter 2003 fluid level monitoring and groundwater sampling at the above-referenced site. 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 June 6, 2003. Groundwater elevations averaged 128.99 feet above mean sea level (MSL). Groundwater flow direction was to the southwest at a gradient of 0.066 foot-per-foot. 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 Appendix A.

2.0 GROUNDWATER SAMPLING

On June 6, 2003, 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, Official Laboratory Reports and Chain of Custody Documents are included in the Appendix.

Approximately 50 gallons of purge water was generated during groundwater sampling activities conducted on June 6, 2003. The purge water was stored onsite in one Department of Transportation-approved 55-gallon drum pending disposal.

JUL 1 7 2003

LIST OF ATTACHMENTS Environmental Health

Figure 1:

Vicinity Map

Figure 2:

Groundwater Elevation Contour Map, June 6, 2003

Figure 3:

Dissolved-Phase Hydrocarbon Concentrations, June 6, 2003

Table 1:

Summary of Groundwater Levels and Chemical Analysis

Appendix A:

General Field Procedures, Official Laboratory Reports, and Chain of Custody Records

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

Sincerely,

3.0

Jonathan Scheiner

Associate

Mohammad Bazargani P.E.

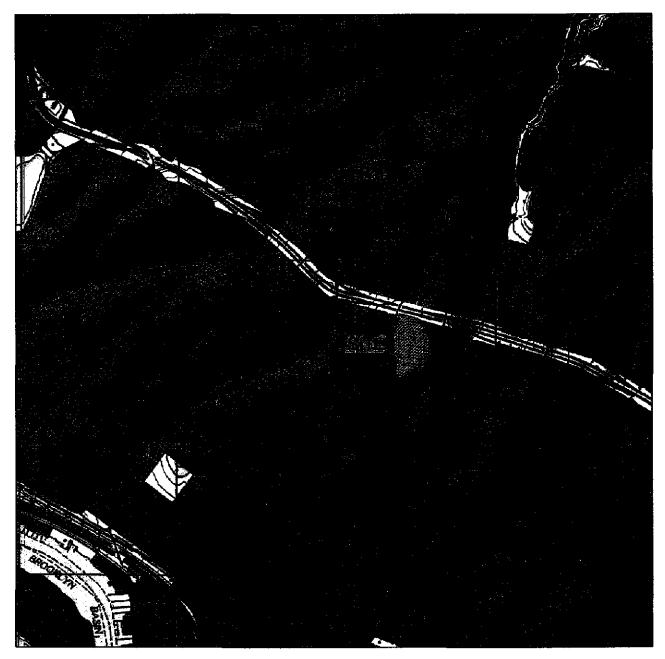
Associate

cc:

Mr. Don Hwang, Alameda County Health Care Services Agency

The ongoing project services summarized in this report 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 findings and professional opinions presented in this report. The findings 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.

FIGURES



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

SCALE 1 : 24,000

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



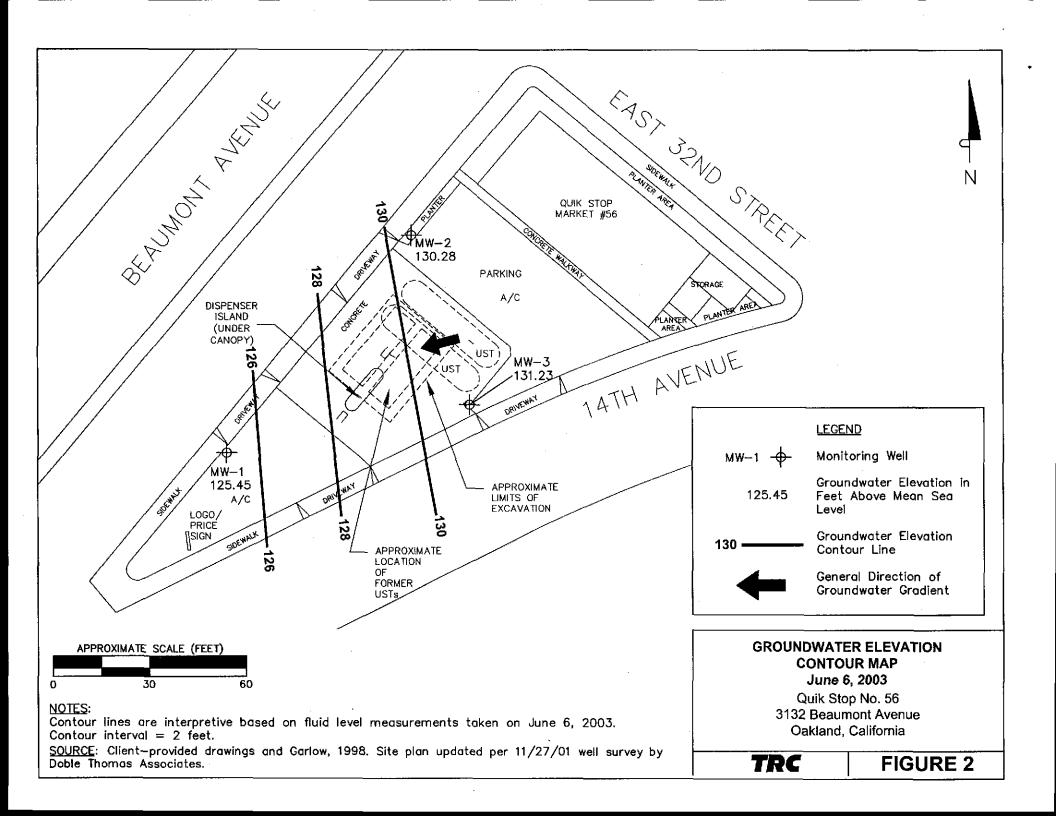
VICINITY MAP

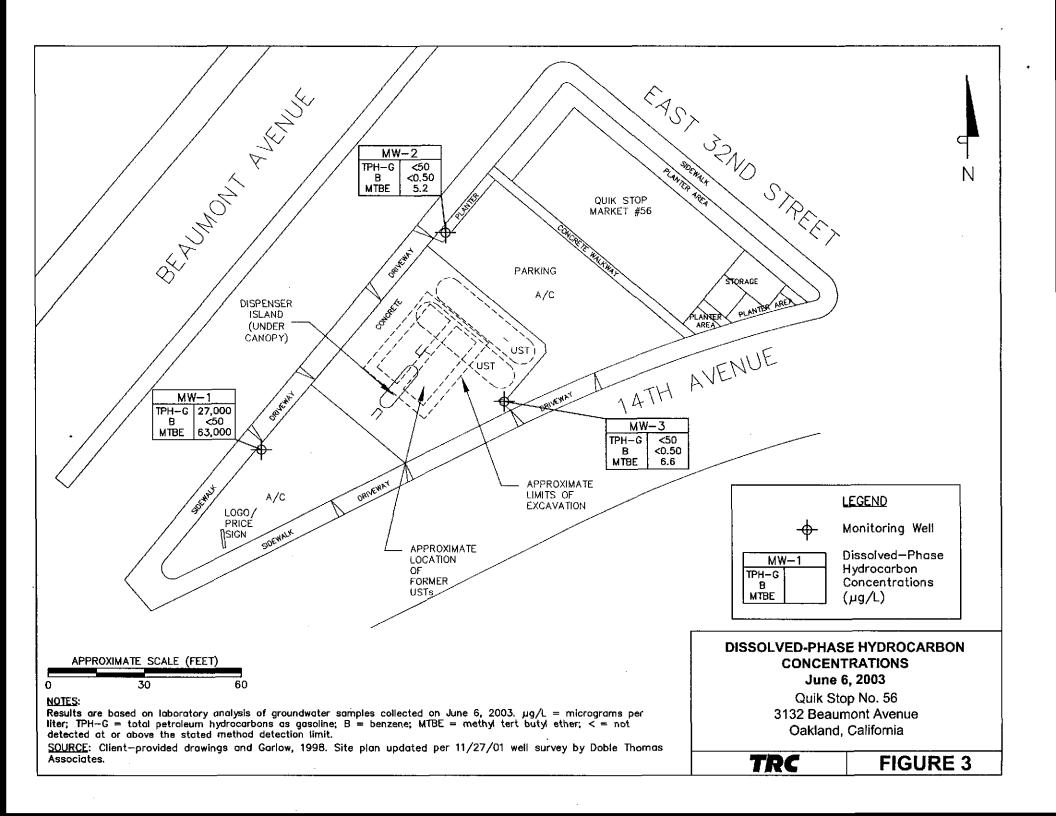
Quik Stop No. 56 3132 Beaumont Avenue Oakland, California

TRC

FIGURE 1

1 MILE





TABLE

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

			Gui	k Stop No. 56 -	. 0 102 DE	aumoni Av	enue, Caki	ality			
Sample ID	Date	Top of Casing Elevation (ft-MSL)		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		veyed to new ref	erence po	int					
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-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 resur	eyed to new refe	erence poi	nt					
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-3	03/02/00	133.78	6.41	127.37	<50	<0.50	<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	<0.5	24	3.91
W-3	01/23/01	133.78	5.75	128.03	<50	<0.50	< 0.50	<0.50	< 0.50	72	1.47
WW-3	04/25/01	133.78	5.90	127.88	<50 -	<0.50	< 0.50	< 0.50	< 0.50	25	0.56
WW-3	07/24/01	133.78	6.56	127.22	<50	< 0.50	0.79	0.73	0.68	5.2	6.67
VW-3	11/08/01	133.78	6.92	126.86	<50	< 0.50	<0.50	< 0.50	< 0.50	14	<u>-</u>
E-WN	11/27/01	136.35	Well resurv	eyed to new refe	erence poi	nt					
E-WN	02/05/02	136,35	5.13	131.22	<50	<0.50	< 0.50	< 0.50	<0.50	10	
K-WN	04/29/02	136.35	5.67	130.68	<50	<0.50	<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	<0.50	31	
MW-3	10/21/02	136.35	6.57	129.78	<50	<0.50	< 0.50	<0.50	<0.50	5.8	_
K-WN	01/06/04	136.35	5.02	131.33	<50	<0.50	<0.50	<0.50	<0.50	4.9	_
	06/06/03	136.35	5.12	131.23	<50	<0.50	<0.50	<0.50	<0.50	6.6	

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 A

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 $4\Box C$ prior to analysis by a state-certified laboratory.

FLUID MEASUREMENT FIELD FORM

Project No.: 41023607 TRC Alton Personnel: 1, 01105001

Station No.: Quick 570#56

Date: 616103

Well Number	Screen Interval	Depth to Water		Free Product Thickness (ft)		Total Depth	Dissolved O ₂ (mg/L)	
MW		8.68				30.05		2"
MW-2		4.88			<u>.</u>	29.92		Z"
MW-2 MW-3		5.12				30.41		2"
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TRC Alton Geoscience, Northern California Operations

GROUND WATER SAMPLING FIELD NOTES

			11/100
Site: Quick Stop #56 Projec	t No.: Samp	led By: TiJohnson	Date: 6/6/03
Vell No. MW-2 77	Purge Method: 215ub	Well No. MW-3 75	Purge Method: 2" Sub
otal Depth (feet) 4 2992		Total Depth (feet) 30,69	Depth to Product (feet):
epth to Water (feet): 4.88	Product Recovered (gallons):	Depth to Water (feet): 5.72	Product Recovered (gallons):
Vater Column (feet): 25,04	Casing Diameter (Inches): 211	Water Column (feet): 25.57	Casing Diameter (Inches): 2"
0% Recharge Depth (feet): 9,80		80% Recharge Depth (feet): 10.23	1 Well Volume (gallons): 4
	Conduc-Temper-		e Conduc-Temper-
	- 100 Maria (100 Maria	Start Stop To Water Purge	
	(uS/cm) (9 , C)		s (uS/cm) (f), C)
11.52 4	1,41 72.8 8,27	1214 4	1,02 762 6.47
1202 8	1.48 74.9 7.09	8	0.99 75.9 6.39
1202 12	1,44 75.4 6.82	1219 12	0.99 Kal 6.39
	1,44 13:1 6:02	1211	3. 17 101 S.S.
Total Purged 2	Time Sampled 1254	Total Purged / Z.	Time Sampled 1307
Comments: Statica, Sample	100000000000000000000000000000000000000	Comments: Stotice Sangle - C	A CONTRACTOR OF THE CONTRACTOR
Turbidity=	- 101 -10	Turbidity=	1.00000
	711G. h		Overa Math ad
Well No. MW-1	Purge Method: 2"Sub	Well No.	Purge Method:
Total Depth (feet) 30.05	Depth to Product (feet):	Total Depth (feet)	Depth to Product (feet):
Depth to Water (feet): 8.68	Product Recovered (gallons):	Depth to Water (feet):	Product Recovered (gallons): Casing Diameter (Inches):
Water Column (feet): 21.37	Casing Diameter (Inches): 2"	Water Column (feet):	_ 1 Well Volume (gallons):
80% Recharge Depth (feet): 12.45		80% Recharge Depth (feet):	
	e Conduc-Temper-		e Conduc-Temper-
Start Stop To Water Purged		Start Stop To Water Purge	NAS PAGGGGGGGG, GG, L. N. GG, N. GG, GG, GG, GG, GG, GG, GG, GG, GG, GG
	(uS/cm) (F) C)	(feet) gallor	is (uS/cm) (F,C)
1233 3	0.90 74.8 6.36		
1737 9	0.93 74.8 6.25	<u> </u>	
1237 9	0.86 75.2 6.75		
	 		
Total Purged 9	Time Sampled 31	Total Purged	Time Sampled
Comments: Static @ Sample		Comments:	
Turbidity=	12.07 13113720	Turbidity=	
	Purge Method:		Purge Method:
Well No Total Depth (feet)	Depth to Product (feet):	·	Depth to Product (feet):
Depth to Water (feet):		Depth to Water (feet):	Product Recovered (gallons):
Water Column (feet):		Water Column (feet):	Casing Diameter (Inches):
80% Recharge Depth (feet):		•	1 Well Volume (gallons):
	e Conduc-Temper-		ne Conduc-Temper-
	d tivity ature pH	Start Stop To Water Purg	
			ns (uS/cm) (F.C)
() (sec) [gailor	is (uS/cm) (F,C)		
	 	 	
			
	 -	.]	
T-1-4D	Time Sampled	Total Purged	Time Sampled
Total Purged	tille Compet	Comments:	
Comments:		Turbidity=	
!Turbidity=	Ī	Full bluid =	

Billing Information:

CHAIN-OF-CUSTODY RECORD

Page: 1 of 1

Alpha Analytical, Inc.

WorkOrder: TRC03061248

Client:

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778 TEL: (775) 355-1044 FAX: (775) 355-0406

Report Due By: 5:00 PM On: 26-Jun-03

TRC-Alton Geoscience

Chris Brown

5052 Commercial Circle

TEL: (925) 688-1200 FAX: (925) 688-0388

EDD Required: No

Concord, CA 94520

.lob: 41023607/Quick Stop #56

Sampled by : Client

Report Attention:

Chris Brown

PO:

Ctient's COC #: none

Cooler Temp:

12-Jun-03

CC Report: QC Level: 1

= Final Rpt Only

										Requested Tests	:	
Alpha	Client	•	Collection	No. o	f Bottle:	5		TPH/P_W	voc_w		:	
Sample ID	Sample ID	Matrix	Date	ORG	SUB	TAT	PWS#			· !	1	Sample Remarks
TRC03061248-01A	MW-1	AQ	06/06/03	4	0	10		BTXE/GAS_ C/MTBE	BTXE/GAS_ C/MTBE		:	· · · · · · · · · · · · · · · · · · ·
TRC03061248-024	MW-2	AQ -	06/0 9/03 /	4	0	10		BTXE/GAS_ C/MTBE	BTXE/GAS_ C/MTBE			
TRC03061248-03A	MW-3	AQ	13:07	4	0	10		BTXE/GAS C/MTBE	BTXE/GAS_ C/MTBE			

Comments:

Custody seal. Frozen ice. CA samples .: (Exat in walk.

Print Name

Company

Received by:

Distriker

Alpha Analytical, Inc.

Wol03 1515

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. Matrix Type: AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Ship To:	Ipha 1	Analy:	tical		Page									CHAIN OF CUSTODY RECORD											
75 \$11	Alpha Analytical Page / of Project Name: Quick Project No. 41027							K-57	βρ ‡	<u> </u>	9				\angle	7	Analysis								
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Boring/Well No.	Sample No.	Depth	Date	Time	Sample Type By Sample Containers Vol. No. Type Pres.						Remarks														
MW-1			6/6/03	1318	X 4 VOA HCIX					X		TRC03061248-01													
MW-2			(1254	\boxtimes			X				1441	X											-02	
MW-3			4	1307	\times			>	<u> </u>	4	VOA	HCI	X		.									- 07	5
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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 5052 Commercial Circle Concord, CA 94520 Attn: Chris Brown
Phone: (925) 688-1200
Fax: (925) 688-0388
Date Received 06/12/03

Job#:

41023607/Quick Stop #56

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

	Parameter	Conce	ntration	Reporting Limit	Date Sampled	Date Analyzed
Client ID:	TPH Purgeable	27,000		10,000 µg/L	06/06/03	06/17/03
MW-1	Methyl tert-butyl ether (MTBE)	63,000		50 μg/L	06/06/03	06/17/03
Lab ID:	Benzene	ND	V	50 μg/L	06/06/03	06/17/03
TRC03061248-01A	Toluene	ND	V	50 μg/L	06/06/03	06/17/03
	Ethylbenzene	ND	V	50 μ g/ L	06/06/03	06/17/03
	Xylenes, Total	ND	V	50 µg/L	06/06/03	06/17/03.
Client ID:	TPH Purgeable	ND		50 μg/L	06/06/03	06/17/03
MW-2	Methyl tert-butyl ether (MTBE)	5.2		0.50 μg/L	06/06/03	06/17/03
Lab ID :	Benzene	ND		0.50 μg/L	06/06/03	06/17/03
TRC03061248-02A	Toluene	ND		0.50 μg/L	06/06/03	06/17/03
	Ethylbenzene	ND		0.50 μg/L	06/06/03	06/17/03
	Xylenes, Total	ND		0.50 μg/L	06/06/03	06/17/03
Client ID:	TPH Purgeable	ND		50 µg/L	06/06/03	06/17/03
MW-3	Methyl tert-butyl ether (MTBE)	6.6		0.50 μg/L	06/06/03	06/17/03
Lab ID:	Benzene	ND		0.50 μg/L	06/06/03	06/17/03
TRC03061248-03A	Toluene	ND		0.50 µg/L	06/06/03	06/17/03
***************************************	Ethylbenzene	ND		0.50 μg/L	06/06/03	06/17/03
	Xylenes, Total	ND		0.50 μg/L	06/06/03	06/17/03

Reported in micrograms per liter, per client request.

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

ND = Not Detected

R Scholl Kandy Saulner

Walter Atribus

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 / Wichita, KS • (316) 722-5890 / info@alpha-analytical.com

6/25/03 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: TRC03061248

Project: 41023607/Quick Stop #56

Alpha's Sample (D	Client's Sample ID	Matrix	рН
03061248-01A	MW-l	Aqueous	2
03061248-02A 03061248-03A	MW-2 MW-3	Aqueous Aqueous	2 .

6/25/03 Report Date