

Alameda County

September 20, 2002

SFP 2 5 2002

Environmental Health

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, THIRD QUARTER 2002

Dear Mr. Hwang:

Enclosed is a copy of the Third Quarter 2002 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,

Tracy L. Walker, RG

Associate

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

Lay L. Walker



September 20, 2002

Project 41-0236

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

SITE: QUIK STOP MARKET NO. 56

3132 BEAUMONT AVENUE OAKLAND, CALIFORNIA

RE: QUARTERLY GROUNDWATER MONITORING REPORT, THIRD QUARTER 2002

Dear Mr. Karvelot:

This *Third Quarter 2002 Groundwater Monitoring Progress Report* presents the results of the Third Quarter 2002 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 July 29, 2002. Groundwater elevations averaged 127.96 feet above mean sea level (MSL). Groundwater flow direction was to the southwest at a gradient of 0.082 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 July 29, 2002, 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 24 gallons of purge water was generated during groundwater sampling activities conducted on July 29, 2002. The purge water was stored onsite in Department of Transportation-approved 55-gallon drums pending disposal.

QUARTERLY PROGRESS REPORT, THIRD QUARTER 2002

Quik Stop Market No. 56 – 3132 Beaumont Avenue, Oakland, California September 20, 2002

3.0 LIST OF ATTACHMENTS

Figure 1:

Vicinity Map

Figure 2:

Groundwater Elevation Contour Map, July 29, 2002

Figure 3:

Dissolved-Phase Hydrocarbon Concentrations, July 29, 2002

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) 688-2476.

Sincerely,

Lay L. Walker, RG

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 1 MILE

SCALE 1: 24,000

Ν

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

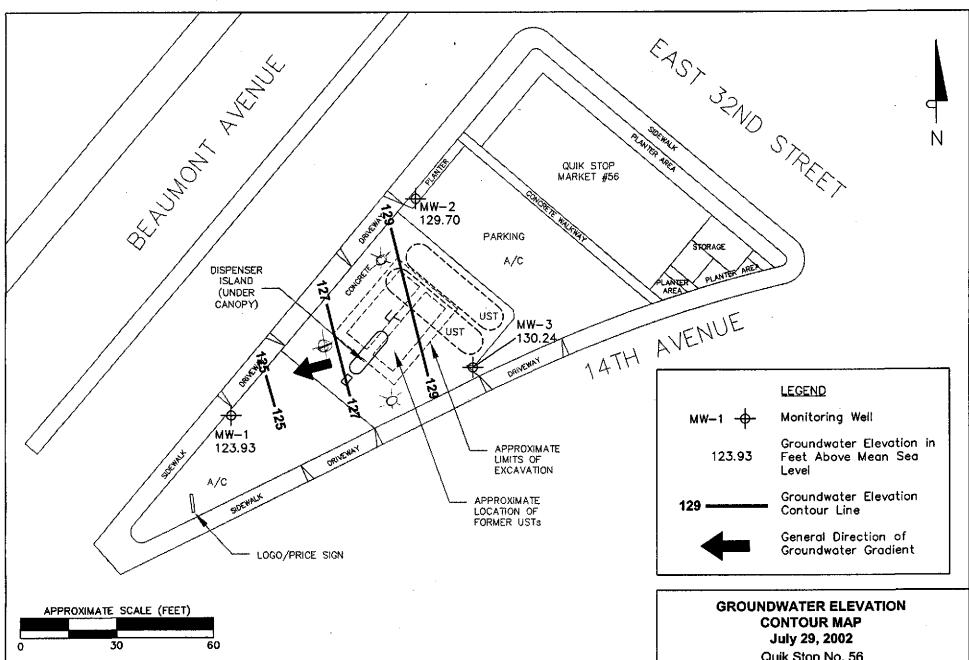


VICINITY MAP

Quik Stop No. 56 3132 Beaumont Avenue Oakland, California

TRC

FIGURE 1



Contour lines are interpretive based on fluid level measurements taken on July 29, 2002.

SOURCE: Client-provided drawings and Garlow, 1998. Site plan updated per 11/27/01 well survey by

NOTES:

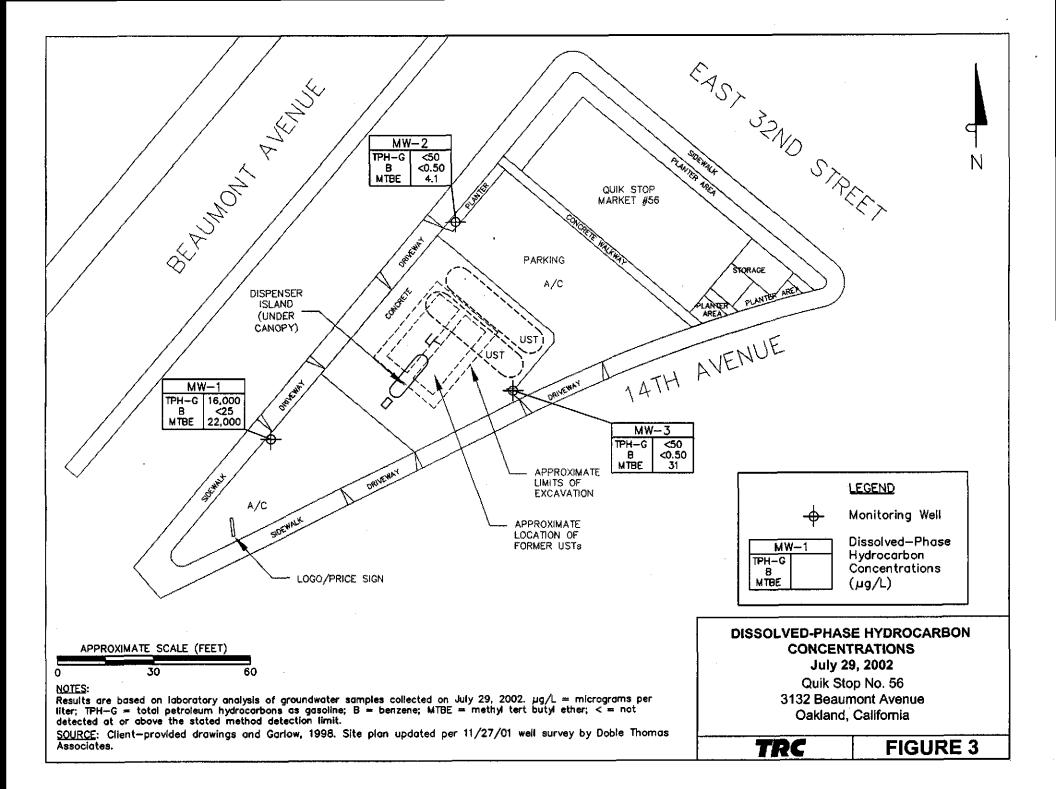
Contour interval = 2 feet.

Doble Thomas Associates.

Quik Stop No. 56 3132 Beaumont Avenue Oakland, California

TRC

FIGURE 2



TABLE

Table 1
Summary of Groundwater Levels and Chemical Analysis

Quik Stop No. 56 - 3132 Beaumont Avenue, Oakland

Top of											
		Casing		Groundwater	Wm	_		Ethyl-	Total	MTBE	20
Sample	B-4-	Elevation		Elevation	TPH-G	Benzene	Toluene	benzene	Xylenes	8260	DO (man)
ID	Date	(ft-MSL)	(feet)	(feet)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(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			veved to new rel						,	
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	_
14111	UNILONGE	104.10	10.20	120.00	10,000	-20	-20	-20		,	
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
MVV-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	veyed to new ref	erence po	int					
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	_
MVV-2	07/29/02	135.16	5.46	129.70	<50	<0.50	<0.50	<0.50	<0.50	4.1	
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
MW-3	01/23/01	133.78	5.75	128.03	<50	<0.50	<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	<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	5.2	6.67
MW-3	11/08/01	133.78	6.92	126.86	<50	<0.50	<0.50	<0.50	< 0.50	14	_
MW-3	11/27/01			veyed to new ref							
MW-3	02/05/02	136.35	5.13	131,22	<50	<0.50	<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	<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	_

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</p>

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.: 41023606
Station No.: Quick Stop #56

TRC Alton Personnel: J. Chidester

Date: 7/29/02

Wall Number	Screen Interval	Depth to Water	Free Product Thickness (ft)		Total Depth	Dissolved O ₁ (mg/L)		Comments	
		5.46			29.92		ე"		
MW3		6.11			30.69		2,		_
MW-2 MW-3 MW-1		10.20			30.05		2"		
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TRC Alton Geoscience, Northern California Operations

GROUND WATER SAMPLING FIELD NOTES

	121-	- 0111-	$ml \sim 1$
Site: Quick Stop#56 Project	t No.: 41023606 Sampl	ed By: J. Chiclester	Date: 7/29/02
Well No. MW-2	Purge Method: 2" electric	Well No. MW-3	Purge Method: 2" electric
Total Depth (feet) 29.92	Depth to Product (feet):		Depth to Product (feet):
Depth to Water (feet): 5. 46	Product Recovered (gallons):	· · · · · · · · · · · · · · · · · · ·	Product Recovered (gallons):
Water Column (feet): 24.46	Casing Diameter (Inches): 2"		Casing Diameter (Inches): 2 4
80% Recharge Depth (feet): [0.3]	1 Well Volume (gallons): 3.91		1 Well Volume (gallons): 3,93
	Conduc-Temper-		Conduc-Temper-
Start Stop To Water Purged	1 SANGERS (1997) 10 To 12 9890 1990 1990 1990	Start Stop To Water Purged	tivity ature pH
1,890 Box 897 1 Pari not well built in Jacobs 1,000 Bir.	(uS/cm) (F,C)	 Substitute for a connected with the confidence of the CVF (CVF). 	(uS/cm) (F,C)
253	1.10 76.3 6.34	1312	0.89 75.9 6.56
	1.05 75.9 6.38		0.84 75,7 6.63
1259	1.11 76.7 6.38		1.83 76.4 6.63
7		7	
Total Purged 4.2	Time Sampled 1420	Total Purged 12	Time Sampled Strio
Comments: Ran Diru 10	7 gal.	Comments: Ran Day @	7 41/1
Turbidity=		Turbidity=	
Well No. MW-	Purge Method: 2"e ketric	Well No.	Purge Method:
Total Depth (feet) 30.05	Depth to Product (feet):	Total Depth (feet)	Depth to Product (feet):
Depth to Water (feet): 10-20	Product Recovered (gallons):	Depth to Water (feet):	Product Recovered (gallons):
Water Column (feet): 19.85	Casing Diameter (Inches): 2 1		Casing Diameter (Inches):
80% Recharge Depth (feet): 4.15	1 Well Volume (gallons):3,18	80% Recharge Depth (feet):	1 Well Volume (gallons):
Time Time Depth Volum	e Conduc-Temper-	Time Time Depth Volume	Conduc-Temper-
Start Stop To Water Purge	d tivity ature pH	Start Stop. To Water Purged	tivity ature pH
(feet) gallon	s (uS/cm) (F,C)	(feet) gallons	(uS/cm) (F,C)
1342	0.82 78.26.46		
	0.74 76.2 6.49		
1347	0.69 76.6 6.53		
	<u> </u>		
Total Purged 10	Time Sampled 1500	Total Purged	Time Sampled
Comments:	Time Sampled 1200	Comments:	Time Complete
Turbidity=		Turbidity=	
<u> </u>	Course Mathedia		Purge Method:
Well No Total Depth (feet)	Purge Method: Depth to Product (feet):	Well No Total Depth (feet)	Depth to Product (feet):
Depth to Water (feet):	Product Recovered (gallons):		Product Recovered (gallons):
Water Column (feet):	Casing Diameter (Inches):	- · · · · 	Casing Diameter (Inches):
80% Recharge Depth (feet):	• • • • • •		1 Well Volume (gallons):
Time Time Depth Volum	ne Conduc-Temper-	Time Time Depth Volume	Conduc-Temper-
Start Stop To Water Purge	ALE CARACTER AND AND ADMINISTRATION OF THE CONTRACT OF THE CON	Start Stop To Water Purgeo	M 1000 1.75 11 7.50 80
- 	is (uS/cm) (F,C)	(feet) gallons	(uS/cm) (F , C)
		}	
		100	
Total Purged	Time Sampled	Total Purged	Time Sampled
Comments:		Comments:	
Turbidity≂	į į	Turbidity=	

Billing Name	•	rmatic	n: 				255 Gler	Analytica date Avenue,	Suite 21				Pæ	ge#_		1	. af	/		
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Phone !	Numbe	<u> </u>		Fax		P.O. #		iob #			 		, 	,	7	1	\overline{T}	/		
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City, St	ate, Zip	Conc	ord, CA	94520		Phone # 925-688	-1200	Fax # 925-68	30388	\bigcup_{S}	17-C	<i>الله</i>	18 / SET					/		
Time	Date	Matrix* See Key	Office Use Only	Sampled by Childe	ester_	Report Altertion	acy W	alken_	Total and type of containers	1/2	18	1/5	:/		/		/ ,	/		
Sampleu	Sampled	Below	Labil	D Number		Sample Desc	ription		**Sea below	/			/			/			JARKS	
1420	7/29/0	AQ	08060	1103-01			W-2		4VOA	X	X	X					_	Quick	Stop +	<u> </u>
1440	7/24/02	AQ		-02			1W-3		4 VOA	X	X	X								
1500	7/29/02	AQ		-03			MW-1		4VOA	X	X	X								
			.,								<u> </u>									
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ADDI	TION	AL IN	STRUCTION	ONS:																
			Signature			Print Nam	ię				C	ompan	у					Date	Time	3
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Key:	AQ - Aq	neons	SO - Soil	WA - Wasi	te OT-C)ther	**: L	Liter V-		oil Jar		-Orbo		-Tedla		B-Bras		P-Plastic	OT-Othe	

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



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:

Tracy Walker

Phone: Fax:

(925) 688-1200 (925) 688-0388

Job#:

41023606/Quick Stop #56

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

	Parameter	Concentratio	n Reporting	Date	Date
			Limit	Sampled	Analyzed
Client ID:	TPH Purgeable	ND	50 μg/L	07/29/02	08/02/02
MW-2	Methyl jert-butyl ether (MTBE)	4.1	0.50 μg/L	07/29/02	08/02/02
Lab ID:	Benzene	ND	0.50 μg/L	07/29/02	08/02/02
TRC02080163-01A	Toluene	ND	0.50 μg/L	07/29/02	08/02/02
	Ethylbenzene	ND	0.50 μg/L	07/29/02	08/02/02
	Xylenes, Total	ИD	0.50 μg/L	07/29/02	08/02/02
Client ID:	TPH Purgeable	ND	50 μg/L	07/29/02	08/02/02
MW-3	Methyl tert-butyl ether (MTBE)	31	0.50 μg/L	07/29/02	08/02/02
Lab ID:	Benzene	ND	0.50 μg/L	07/29/02	08/02/02
TRC02080163-02A	Toluene	ND	0.50 µg/L	07/29/02	08/02/02
	Ethylbenzene	ND	0.50 µg/L	07/29/02	08/02/02
	Xylenes, Total	ND	0.50 μg/L	07/29/02	08/02/02
Client ID:	TPH Purgeable	16,000	5,000 μg/L	07/29/02	08/02/02
MW-1	Methyl tert-butyl ether (MTBE)	22,000	25 μg/l.	07/29/02	08/02/02
Lab ID:	Benzene	ND V	25 μg/Ľ.	07/29/02	08/02/02
TRC02080163-03A	Toluene	ND V	25 μg/L	07/29/02	08/02/02
	Ethylbenzene	ND V	25 μg/L	07/29/02	08/02/02
	Xylenes, Total	ND V	25 μ g/ L	07/29/02	08/02/02

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

KandyDadme

Walter Hindrey

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

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: TRC02080163

Project: 41023606/Quick Stop #56

Alpha's Sample ID	Client's Sample ID	Matrix	pH
02080163-01A	MW-2	Aqueous	2
02080163-02A	MW-3	Aqueous	2
02080163-03A	MW-1	Aqueous	2

8/14/02

Report Date