FIRST QUARTER 1995 GROUND WATER

MONITORING REPORT

S&S BUILDING SUPPLY

2-28-95

SAN LEANDRO, CALIFORNIA

LOWNEYASSOCIATES

Environmental/Geotechnical/Engineering Services



February 28, 1995 1063-1, MV022802

Mr. Bob Gardner S&S BUILDING SUPPLY 701 Fremont Avenue San Leandro, California 94577 **RE: FIRST QUARTER 1995 GROUND WATER** MONITORING REPORT **S&S BUILDING SUPPLY** SAN LEANDRO, CALIFORNIA

Dear Mr. Gardner:

In accordance with your request, we are pleased to present the first quarter 1995 ground water monitoring report for the referenced site, located at 701 Fremont Avenue in San Leandro, California.

To evaluate the ground water quality, ground water samples were collected from monitoring wells MW-1, MW-2, and MW-3. Laboratory analysis of the ground water samples detected gasoline range petroleum hydrocarbons at concentrations ranging from 330 to 4,100 parts per billion. These levels are significantly lower than those detected when the wells were sampled shortly after installation.

We refer you to the text of the report for details regarding our investigation. If you PROFESSION

KSON I. FOS

No. 051495

Exp. 6-30-98

have any questions, please call.

Very truly yours,

LOWNEY ASSOCIATES

Stason I. Foster, P.E. Associate, Environmental Engineer

Ron L. Helm, C.E.G.

Principal, Environmental Geologist

No. EG1808

Exp. 7-31-95

CERTIFIED **ENGINEERING** GEOLOGIST

RLH:SIF:BAF:tjc

Copies: Addressee (3)

Alameda County Department of Environmental Health (1)

Attn: Mr. Scott Seery

▼ 405 Clyde Avenue, Mountain View, CA 94043-2209 (415) 967-2365 FAX (415) 967-2785 Mailing Address: P.O. Box 1388, Mountain View, CA 94042-1388

Walnut Creek Mountain View

FIRST QUARTER 1995 MONITORING REPORT
For
s&s BUILDING SUPPLY San Leandro, California
То
Mr. Bob Gardner
sæs BUILDING SUPPLY 701 Fremont Avenue San Leandro, California 94577 February 1995

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FIRST QUARTER 1995 GROUND WATER MONITORING REPORT S&S BUILDING SUPPLY SAN LEANDRO, CALIFORNIA

1.0 INTRODUCTION

In this report, we present the results of the first quarter 1995 monitoring of ground water at 701 Fremont Avenue in San Leandro, California. The purpose of this work was to evaluate current ground water quality.

1.2 Site Background

1.1 Purpose

Two 1,000-gallon gasoline underground storage tanks (USTs) and dispenser island were formerly located on-site. During the removal of the USTs in 1989, two soil samples were collected from beneath the northern and southern ends of each UST. Laboratory analysis of soil samples collected from beneath the northern and southern ends of the westernmost UST detected total petroleum hydrocarbons (TPH) as gasoline at 2,300 parts per million (ppm) and 7,600 ppm, respectively. Laboratory analysis of soil samples collected from beneath the easternmost UST did not detect TPH as gasoline or benzene, ethylbenzene, toluene, or xylenes (BTEX) above the laboratory detection limits.

We understand that additional soil was removed from the UST excavation; however, it does not appear that any additional verification soil samples were collected. The excavation reportedly was extended to ground water at a depth of 10 to 12 feet. Analysis of five composite soil samples collected from the stockpiled soil after aeration did not detect TPH as gasoline or BTEX compounds. The stockpiled soil was subsequently used to backfill the excavation.

The scope of work performed during this investigation included the following:

- 1.3 Scope of Work
- ▼ Purging and sampling of ground water from three existing ground water monitoring wells (MW-1, MW-2, and MW-3).
- ▼ Laboratory analysis of the ground water samples collected.
- ▼ Preparation of this report.

2.0 GROUND WATER QUALITY INVESTIGATION

To evaluate current ground water quality, ground water samples from the three on-site wells were collected on January 25, 1995. The samples were analyzed for TPH as gasoline and BTEX compounds (EPA Test Method 8015/8020). The analytical results are presented in Table 1. A discussion of well sampling protocol and copies of all laboratory reports are presented in Appendices A and B, respectively.

2.1 Ground Water Ouality

TABLE 1. Analytical Results for Ground Water Samples (concentrations in parts per billion)

Well Number	Date Sampled	TPH Gasoline	Benzene	Toluene	Ethylbenzene	Xylenes
M₩-1	11/03/94	35,000	<25	<25	140	430
	01/25/95	4,100	22	9.4	25	71
MW-2	11/03/94	1,200	<2.5	<2.5	<2.5	<2.5
	01/25/95	330	<0.50	<0.50	<0.50	<0.50

continued

TABLE 1. Analytical Results for Ground Water Samples (concentrations in parts per billion) (continued)

Well Number	Date Sampled	TPH Gasoline	Benzene	Toluene	Ethylbenzene	Xylenes
MW-3	11/03/94 11/03/94* 01/25/95	2,400 3,000 2,800	4.2 5.6 27	<2.0 <2.0 <5.0	40 39 110	43 44 150
Drinking V Standards		NE	1.0	1,000	680	1,750

⁻U.S. Environmental Protection Agency, "Drinking Water Standards and Health Advisory Table", August 1991

To evaluate the ground water flow direction at the site, the static ground water level in monitoring wells MW-1, MW-2, and MW-3 were measured using an electronic depth sounder. The ground water and top of casing elevations are presented in Table 2. As shown on Figure 3, the ground water flow direction beneath the site is towards the south. A more southwesterly flow direction was measured during the previous sampling event (Lowney 1994).

2.2 Ground Water Flow

TABLE 2. Ground Water and Top of Casing Elevations (measurements in feet)

Well Number	Date	Relative Top of Casing Elevation	Ground Water Depth*	Relative Ground Water Elevation	
MW-1	11/03/94 01/25/95	100.05	15.46 12.21	84.59 87.84	not to MSL
MW-2	11/03/94 01/25/95	100.00	15.29 12.06	84.71 87.94	Ma,
MW-3	11/03/94 01/25/95	99.58	14.96 11.75	84.62 87.83	

^{*}Measured from top of casing

Compound not detected above the specified laboratory detection limit.

 ⁻Split Sample
 NE -Not Established

3.0 CONCLUSIONS AND RECOMMENDATIONS

The purpose of this investigation was to evaluate the current ground water quality in the existing on-site monitoring wells.

Laboratory analysis of the ground water samples collected from the monitoring wells detected gasoline range petroleum hydrocarbons ranging from 330 to 4,100 ppb. These levels are significantly lower than those detected during the last sampling event. Continued quarterly sampling, as planned, will aid in better evaluating ground water quality. In our opinion, a continued decrease in petroleum hydrocarbon concentrations would be expected due to natural degradation and attenuation processes.

4.0 LIMITATIONS

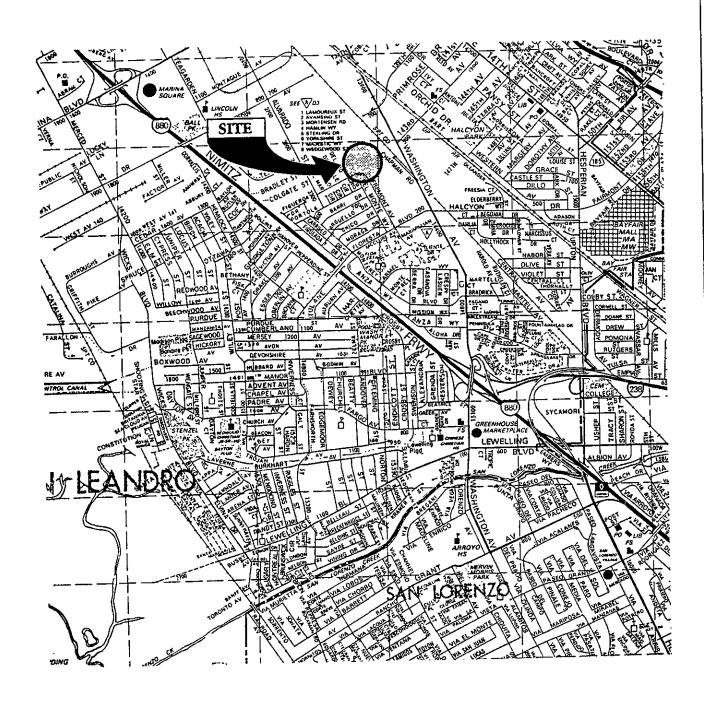
This report was prepared for the use of S&S Building Supply in evaluating ground water quality at the referenced site at the time of this study. We make no warranty, expressed or implied, except that our services have been performed in accordance with environmental principles generally accepted at this time and location. The chemical and other data presented in this report can change over time and are applicable only to the time this study was performed.

LOWNEYASSOCIATES

REFERENCE

Lowney Associates. 1994. Soil and Ground Water Quality Reconnaissance, S&S Building Supply, San Leandro, California.





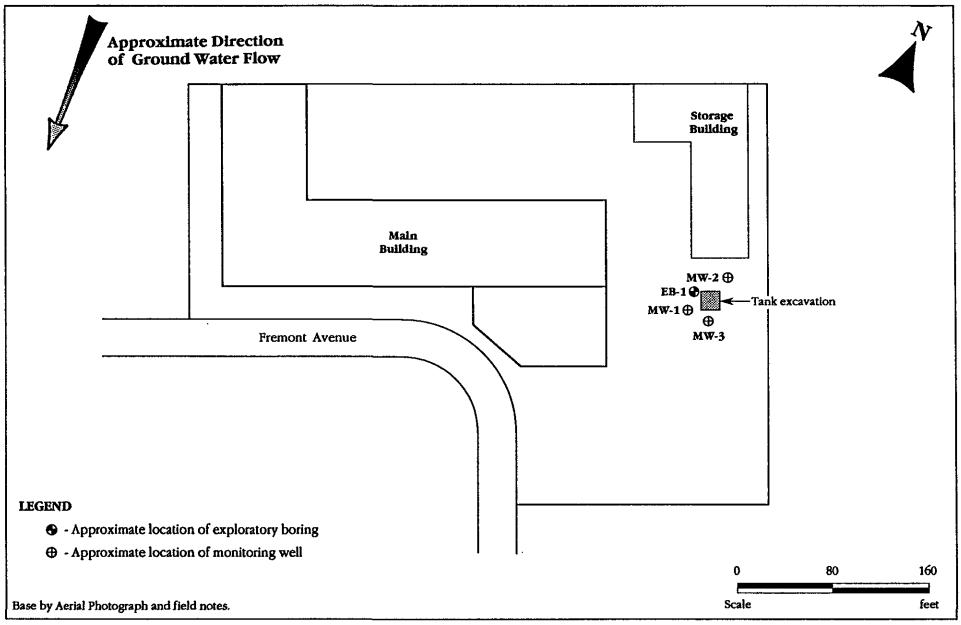
1063-1, 2/27 BAF*EB

VICINITY MAP

S & S BUILDING SUPPLY San Leandro, California



"Reproduced with permission granted by THOMAS BROS. MAPS."

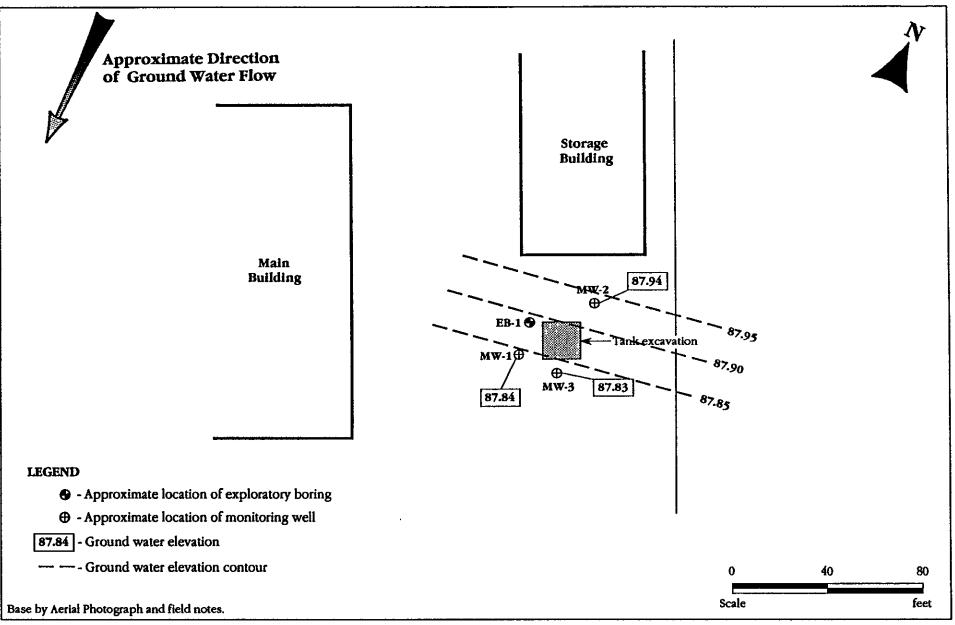


1063-1, 2/27 BAF'EB

SITE PLAN

S & S BUILDING SUPPLY San Leandro, California



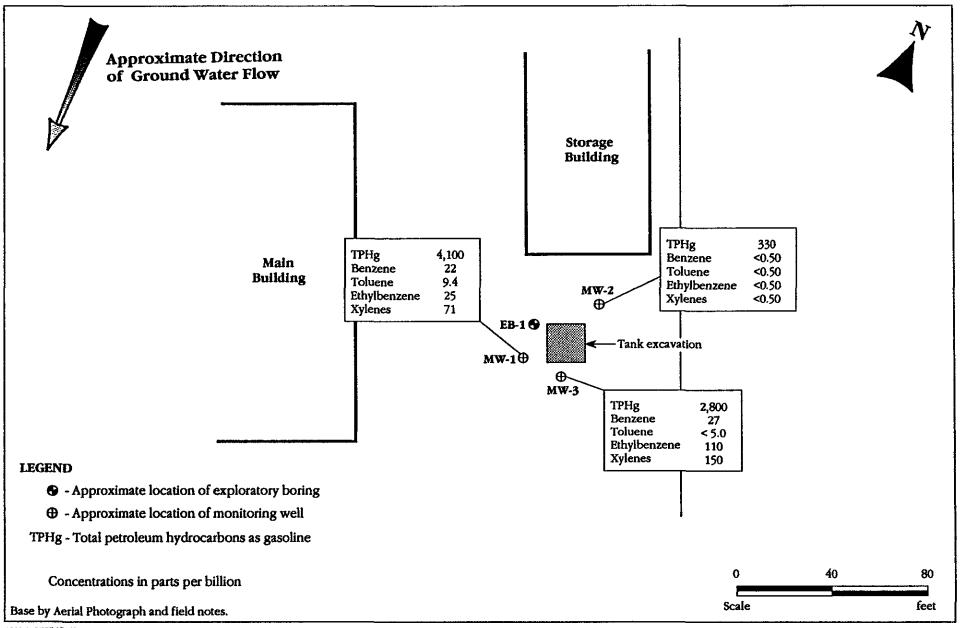


1063-1, 2/27 BAF*EB

GROUND WATER ELEVATION MAP

S & S BUILDING SUPPLY San Leandro, California





1063-1, 2/278AF*EB

ANALYTICAL RESULTS FOR GROUND WATER SAMPLES

S & S BUILDING SUPPLY San Leandro, California



APPENDIX A

WELL SAMPLING PROTOCOL AND RECORDS

A Teflon bailer was used to purge a minimum of three well casing volumes of water from each well. After purging each well volume, pH, temperature, and conductivity measurements were recorded. In general, these measurements stabilize after three to four well volumes. If, after the third well volume the pH and conductivity did not stabilize, additional well volumes were removed until these measurements did stabilize. If the yield was low and the well was pumped dry, the well was allowed to recharge to 80 percent of the initial water level before sampling. Samples were collected in appropriate sample bottles, labeled, and immediately placed into an ice-cooled chest for delivery to a state certified analytical laboratory for analysis.

Ground Water Sampling

All well sampling equipment was cleaned with an aqueous tri-sodium phosphate solution and distilled water or steam cleaned prior to entering each well.

Equipment Decontamination

Well development and sampling records are attached.

LOWNEYASSOCIATES

RECORD OF WELL DEVELOPMENT/SAMPLING

Project Number	1063-1					
Project Name	5 \$ 5 T301101NG	Supply	·		·	
Field Geologist/Engineer	BAF		-			
Well Number	MW-I		Boring	Diameter		(inches)
Well Number Well Total Depth (complete	d) <u>25</u>	(feet)				
Development Date	Method		Volume	Produced		(liter/gal)
	WELL VOL	UME CONVERS	ION FACTOR	S		
2-INCH CASING DIAME	TER		4-IN	CH CASING	DIAMETER	
VOL (GALLONS) = FEET VOL (LITERS) = FEET OF) = feet of wat feet of water	
Sampling Date $\frac{1}{25}$	/95 Time	e;			Teflow 13a	
Static Water Level Prior to P (Measured from top of casin	1g)				covery	_
Well Volume	7.9				1	·
Three Weil Volumes	23.8	(<u>lite</u> r/gal)	Well Volumes	ph	Conductivity µSx10	Temp *F
Total Produced	32	(liter/gal)	1	7.1	78	
Number of Well Volumes	4		2	7.2	74	_
Production Time	((min)	3	7.2	76	
			4	7.1	75	
Production Rate	(/min)	5			
			6			
Sample Description	₩-1	·	7			
-	Egoola		8		<u> </u>	,
			9			
Deliver Pick-Up	Date	<u></u>	10			
Comments Temperatu	of meter me	ومرز ومراجع والمراجع	a			

LOVNEYASSOCIATES RECORD OF WELL DEVELOPMENT/SAMPLING

Project Number	1063-1					
Project Name	5+5 134	loing				
Field Geologist/Engineer _	TBAF			i		
Well Number	MW-Z		Boring	Diameter		(inches)
Well Total Depth (complete						
Development Date						
		VOLUME CONVER				
2-INCH CASING DIAM	ETER		4-INC	CH CASING	DIAMETER	
VOL (GALLONS) = FEE	T OF WATER x 0.17				= FEET OF WAT	
VOL (LITERS) = FEET C	of water x 0.62		VOL	(LITERS) =	FEET OF WATER	x 2.5
Sampling Date 1/2 Static Water Level Prior to	•				70 10 13A	
(Measured from top of cas	ing)			Recharge	ed Yes 🖸	No 🗆
Well Volume	කි.ර		Well	ph	Conductivity	Тетр
Three Well Volumes	ટ식.	(liter/gal)	Volumes	ри	μSx10	F
				7.1	μSx10 75	
Three Well Volumes Total Produced	32.	(liter/gal)	Volumes		 	
Three Well Volumes Total Produced Number of Well Volumes	3Z 4	(liter/gal)	Volumes 1	7.1	75-	'F
Three Well Volumes Total Produced Number of Well Volumes Production Time	32.	(liter/gal) (min)	Volumes 1 2	7.1	75-	*F
Three Well Volumes Total Produced Number of Well Volumes	3Z 4	(liter/gal)	Volumes 1 2 3 4 5	7.1	75 ⁻ 78 79	'F'
Three Well Volumes Total Produced Number of Well Volumes Production Time Production Rate	32. 4	(liter/gal) (min) (_/min)	Volumes 1 2 3 4 5 6	7.1	75 ⁻ 78 79	'F'
Three Well Volumes Total Produced Number of Well Volumes Production Time Production Rate	32. 4	(liter/gal) (min) (_/min)	Volumes 1 2 3 4 5 6 7	7.1	75 ⁻ 78 79	'F'
Three Well Volumes Total Produced Number of Well Volumes Production Time Production Rate	32. 4	(liter/gal) (min) (_/min)	Volumes 1 2 3 4 5 6 7 8	7.1	75 ⁻ 78 79	'F'
Three Well Volumes Total Produced Number of Well Volumes Production Time	32. 4 MW-Z Seavola	(liter/gal) (min) (_/min)	Volumes 1 2 3 4 5 6 7	7.1	75 ⁻ 78 79	'F'

LOVNEYASSOCIATES RECORD OF WELL DEVELOPMENT/SAMPLING

Project Number	1063-1				
Project Name	5\$5 Toulding Supply				
Field Geologist/Engineer _					
Well Number	MW-3	Boring	Diameter		(inches)
Well Total Depth (complete	ed) Z5 (feet)	Casing	Diameter		(inches)
Development Date	Method	Volume l	Produced		(liter/gal)
	WELL VOLUME CONVERS		S		(
2-INCH CASING DIAME	ETER	4-IN	CH CASINO	DIAMETER	
VOL (GALLONS) = FEET VOL (LITERS) = FEET O			•) = FEET OF WATE FEET OF WATER	
Sampling Date 1/25				Tellow 13	_
Static Water Level Prior to I (Measured from top of casi	_			ed Yes	_
Well Volume	8.Z (liter/gal)				
Three Well Volumes	Z억.스 (liter/gal)	Well Volumes	ph	Conductivity µSx10	Temp *F
Total Produced	33 (liter/gal)	1	7.(79	-7-
Number of Well Volumes	4	2	7.1	88	
Production Time	(min)	3	7.1	81	
		4	7.1	81	-
Production Rate	(_/min)	5			···
		6			
Sample Description	mω-3	_ 7			
Laboratory	MW-3 Seavoin	8			
		-			
Deliver Pick-Up	Date	. 10			
_					
Comments					·

APPENDIX B ANALYTICAL RESULTS

The chilled samples were delivered to a state certified analytical laboratory. Chain of custody documentation was maintained for all samples. Attached are copies of the analytical results and chain of custody forms.



680 Chesapeake Drive 1900 Bates Avenue, Suite L Concord, CA 94520 819 Striker Avenue, Suite 8

Redwood City, CA 94063 Sacramento, CA 95834

(415) 364-9600 (510) 686-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Lowney Associates 405 Clyde Avenue Mountain View, CA 94043

Attention: Brock Foster

Client Proj. ID: 1063-1 Sample Descript: MW-2

Matrix: LIQUID

Analysis Method: 8015Mod/8020 ntion: Brock Foster Lab Number: 9501G45-01

Sampled: 01/25/95 Received: 01/25/95

Analyzed: 02/01/95 Reported: 02/08/95

C Batch Number: GC020195BTEX03A

nstrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection ug/		Sample Results ug/L
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total)	50 0.5 0.5 0.6 0.5	50 50 50	330 N.D. N.D. N.D. N.D.
Chromatogram Pattern: Weathered Gas			C7-C12
Surrogates Trifluorotoluene	Control L	.imits % 130	% Recovery 94

nalytes reported as N.D. were not present above the stated limit of detection.

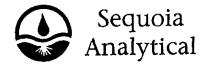
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FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Lowney Associates 405 Clyde Avenue Mountain View, CA 94043

Attention: Brock Foster

Client Proj. ID: 1063-1 Sample Descript: MW-1

Matrix: LIQUID

Analysis Method: 8015Mod/8020 Lab Number: 9501G45-02

Sampled: 01/25/95 Received: 01/25/95

Analyzed: 02/01/95 Reported: 02/08/95

C Batch Number: GC020195BTEX03A

strument iD: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	De	tection Limit ug/L	Sar	nple Results ug/L
TPPH as Gas	***************************************	500		4100
Benzene		5.0		22
Toluene		5.0		9.4
Ethyl Benzene		5.0		25
Xylenes (Total)	************	5.0		71
Chromatogram Pattern:	***************************************			Gas

Control Limits % Surrogates % Recovery rifluorotoluene 130 124

nalytes reported as N.D. were not present above the stated limit of detection.

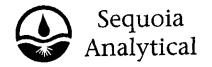
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FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Lowney Associates 405 Clýde Avenue Mountain View, CA 94043

Attention: Brock Foster

Lowney Associates Client Proj. ID: 1063-1 Sampled: 01/25/95 Client Proj. ID: Sample Descript: MW-3

Matrix: LIQUID

Analysis Method: 8015Mod/8020 Lab Number: 9501G45-03

Received: 01/25/95

Analyzed: 02/02/95 Reported: 02/08/95

C Batch Number: GC020195BTEX17A

strument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Det	ection Limit ug/L	Sam	ple Results ug/L
TPPH as Gas		500		2800
Benzene	***************************************	5.0		27
Toluene		5.0		N.D.
Ethyl Benzene		ĒΛ		110
Xylenes (Total)	***************************************	5 A		150
Chromatogram Pattern:	***************************************			Gas
Surrogates	Con	trol Limits %	% Re	covery
Trifluorotoluene	70	130		88

nalytes reported as N.D. were not present above the stated limit of detection.

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Lowney Associates 405 Clyde Avenue Mountain View, CA 94043 Attention: Brock Foster

Client Project ID: 1063-1
Matrix: Liquid

Work Order #:

9501G45 -01-02

Reported:

Feb 8, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl	Xylenes	
QC Batch#: Analy. Method: Prep. Method:	GC020195BTEX03A EPA 8020 EPA 5030	GC020195BTEX03A EPA 8020 EPA 5030	Benzene GC020195BTEX03A EPA 8020 EPA 5030	GC020195BTEX03A EPA 8020 EPA 5030	
Analyst: MS/MSD #: Sample Conc.: Prepared Date: Analyzed Date: Instrument I.D.#: Conc. Spiked:	J. Minkel 9501E0401 N.D. 2/1/95 2/1/95 GCHP3 10 µg/L	J. Minkel 9501E0401 N.D. 2/1/95 2/1/95 GCHP3 10 μg/L	J. Minkel 9501E0401 N.D. 2/1/95 2/1/95 GCHP3 10 µg/L	J. Minkel 9501E0401 N.D. 2/1/95 2/1/95 GCHP3 30 µg/L	
Result:	10	9.9	9.9	29	
MS % Recovery:	100	99	99	97	
Dup. Result:	9.8	9.6	9.7	29	
MSD % Recov.:	98	96	97	97	
RPD:	2.0	3.1	2.0	0.0	
RPD Limit:	0-20	0-50	0-50	0-50	

LCS #:

Prepared Date: Analyzed Date: Instrument I.D.#: Conc. Spiked:

> LCS Result: LCS % Recov.:

FT: 9 50 10

MS/MSD 71-133 72-128 72-130 71-120
LCS
Control Limits

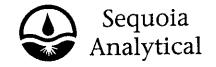
SEQUOIA ANALYTICAL

Vytas Ankaitis Project Manager Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9501G45.JVL <1>



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Lowney Associates 405 Clyde Avenue

Mountain View, CA 94043 Attention: Brock Foster

Client Project ID: Matrix: Liquid

Work Order #: 9501G45-03

Reported:

Feb 8, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl	Xylenes	
QC Batch#: Analy. Method: Prep. Method:	GC020195BTEX17A EPA 8020 EPA 5030	GC020195BTEX17A EPA 8020 EPA 5030	Benzene GC020195BTEX17A EPA 8020 EPA 5030	GC020195BTEX17A EPA 8020 EPA 5030	
Analyst: MS/MSD #: Sample Conc.: Prepared Date: Analyzed Date: Instrument I.D.#: Conc. Spiked:	J. Minkel 9501E0401 N.D. 2/1/95 2/1/95 GCHP17 10 μg/L	J. Minkel 9501E0401 N.D. 2/1/95 2/1/95 GCHP17 10 µg/L	J. Minkel 9501E0401 N.D. 2/1/95 2/1/95 GCHP17 10 µg/L	J. Minkel 9501E0401 N.D. 2/1/95 2/1/95 GCHP17 30 µg/L	
Result:	9.4	9.4	9.6	29	
MS % Recovery:	94	94	96	97	
Dup. Result:	9.2	9.2	9.1	27	
MSD % Recov.:	92	92	91	90	
RPD:	2.2	2.2	5.3	7.1	
RPD Limit:	0-50	0-50	0-50	0-50	

LCS #:

Prepared Date: Analyzed Date: Instrument I.D.#: Conc. Spiked:

> LCS Result: LCS % Recov.:

MS/MSD LCS

Control Limits

71-133 72-128

72-130

71-120

SEQUOIA ANALYTICAL

as Ankaitis oject Manager Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix Interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

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)	680 Chesapeake Drive - Redwood City,	CA 94	1063 • (415	364-9600	FAX (41	5) 364	-9233
1	819 West Striker Ave. • Sacramento, 0	CA 958	334 • (916)	921-9600	FAX (91	6) 921	-0100
2	1900 Bates Ave., Suite LM • Concord,	CA 94	520 • (510)	686-9600	FAX (51)	O) 686	-9689

						·									`		_	
Company Name: Lowney						Project Name: 1063-1												
Address: 405; Clude Ave						Billing Address (if different):												
Company Name: Lowey Address: 405: Cycle Ave City: M- New State: CA Zip Code 94037																		
							P.O. #:											
						QC Data: Level A (Standard) Level B Level C Level D												
Turnaround 10 Working Time: 7 Working 5 Working	ng Days 🔲 : g Days 🔲 :		g Days g Days		□ v	Orinking Vaste V Other		al Sit	/		Analys	es Re	equeste	ed		7	Pink - Client	
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