DECEMBER, 1994 QUARTERLY GROUND WATER SAMPLING REPORT FOR STID 553 - GRIMIT AUTO AND REPAIR 1970 SEMINARY AVENUE OAKLAND, CALIFORNIA

Prepared by

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TRANSMITTAL

TO Alamedo Carty Envi Art. 1131 Harber Bey Pkuy Alamedo CA 94502. ATTENTION Thomas Paacock	DATE 1/13/95 WIA US/Yail GS77 FAX NO. 14/A
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COPY TO BY	David F. Hoexter

If enclosures are not as noted, kindly notify us at once

Geology / Engineering Geology / Environmental Studies

HOEXTER CONSULTING, INC. DAVID F. HOEXTER, R.G./C.E.G./R.E.A.

734 Torreya Court Palo Alto, California 94303

(415) 494-2505 (ph. & fax)

January 13, 1995

E-10-1-019 HCQuartEnvtRpts:Seminary1970/5

Mr. Doyle Grimit 14366 Lark Street San Leandro, California 94578

RE:

DECEMBER, 1994 QUARTERLY GROUND WATER SAMPLING REPORT STID 553 - GRIMIT AUTO AND REPAIR 1970 SEMINARY AVENUE OAKLAND, CALIFORNIA

Dear Mr. Grimit:

Enclosed is our December, 1994 quarterly ground water sampling report for the property located at 1970 Seminary Avenue, corner of Harmon, in Oakland, California This sampling round is the fifth quarterly sampling performed by Hoexter Consulting at the site. The results of an initial sampling round by Kaldveer Associates, Inc, following well installation, and the previous Hoexter Consulting quarterly and sub-surface investigation sampling, are included in the analytical results summary table.

The results of this investigation indicate that the water samples from the three on-site wells contain elevated to very low levels of total petroleum hydrocarbons as gasoline (TPH-G), purgeable aromatic compounds (BTEX), and of oil (total recoverable petroleum hydrocarbons, TRPH). The water sample from well MW-1 indicates a very marked decrease in all analyzed compounds; the levels in wells MW-2 and MW-3 indicate, on the whole, a slight increase in the analyzed compounds.

We are currently reviewing the occurrence of petroleum hydrocarbons at the site, and will present a proposal for additional evaluation and remediation of the site.

We recommend that copies of this report be submitted to the California Regional Water Quality Control Board and the Alameda County Department of Environmental Health. The next round of sampling is scheduled for March or April, 1995, following installation of additional monitoring wells and additional site evaluation.

We appreciate the opportunity to provide services to you on this project and trust this report meets your needs at this time. If you have any questions, or require additional information, please do not hesitate to call.

Very truly yours,

HOEXTER CONSULTING, INC.

D-17.1+T

David F. Hoexter, RG/CEG/REA Principal

Copies: Addressee (2)

Alameda County Health Care Services Agency (1)

Attention: Mr. Thomas F. Peacock

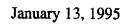
DECEMBER, 1994 QUARTERLY GROUND WATER SAMPLING REPORT

For

STID 553 - Grimit Auto and Repair 1970 Seminary Avenue Oakland, California

To

Mr. Doyle Grimit 14366 Lark Street San Leandro, California 94578



0-27.14

David F. Hoexter, R.G./C.E.G./R.E.A. Principal

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DECEMBER, 1994 QUARTERLY GROUND WATER SAMPLING REPORT FOR STID 553 - GRIMIT AUTO AND REPAIR 1970 SEMINARY OAKLAND, CALIFORNIA

I. INTRODUCTION

This report presents the results of the December, 1994 quarterly ground water sampling at 1970 Seminary, Oakland, California. The project location is shown on the Site Location Map, Figure 1. The scope of services provided during this investigation consisted of collecting and analyzing ground water samples from three on-site monitoring wells. Ground water samples were analyzed for total petroleum hydrocarbons as gasoline, for purgeable aromatic compounds, and for oil and grease. Well locations are shown on the Well Location Map, Figure 2.

II. FIELD INVESTIGATION

The ground water monitoring wells were sampled by a representative of Hoexter Consulting, Inc. on December 28, 1994. Following an initial ground water level measurement (Table 1), each well was checked for free-product with the bailer, and then four well-casing volumes of water were purged from the well. A dedicated teflon bailer was employed for each well. Water levels were measured twice in each well, on the order of 45 minutes apart, prior to purging. The second set of water levels is recorded on Table 1. The initial depth to ground water in well MW-1 was 5.28 feet higher than the previous, September, 1994 reading. Well MW-2 declined 2.46 feet; well MW-3 rose 1.53 feet. Note that wells MW-1 and MW-2 are identically completed; MW-3 is completed to a shallower depth. The apparent inconsistency in ground water level changes is not explained. It is possible that the water levels were not fully stabilized when measured.

Following purging, samples were collected using the teflon bailer, placed in appropriate sample containers supplied by the analytical laboratory, labeled, and placed in refrigerated storage for transport to the laboratory under chain-of-custody control. All sampling equipment was thoroughly cleaned with trisodium phosphate detergent and rinsed with distilled water prior to sampling the well. Monitoring well sampling logs and the chain of custody are attached to this report as a part of Appendix I. The laboratory is California Department of Health Services approved for the requested analyses.

Although three wells are present on the site, one of the wells (MW-3) is completed at a shallower depth than the other two wells. Thus, although ground water elevation data were obtained for this investigation and are presented in Table 1, the data are not plotted, as a true ground water flow direction cannot be determined from wells not similarly completed.

III. ANALYTICAL RESULTS

A. Laboratory Procedures

The ground water samples were analyzed by Sequoia Analytical of Redwood City, California. The samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-G) using EPA Method 5030/8015; for purgeable aromatic compounds (BTEX) using EPA Method 8020; and for oil and grease (total recoverable petroleum, TRPH) using EPA Method 418.1 (equivalent to SM 5520C/F).

B. Analytical Results

The results of the chemical analyses are presented on Table 2 and are attached to this report as a part of Appendix I. Analytical results of all previous testing, including the August, 1990 sampling by Kaldveer Associates, Inc, following installation of well MW-1, are also included. The current analytical results indicate that TRPH, TPH-G, and BTEX compounds are present at elevated but significantly decreased levels in monitoring well MW-1. Very low levels of TPH-G and BTEX were detected in wells MW-2 and MW-3; TRPH was detected in MW-2 for the first time, but was not detected in MW-3.

The test results for MW-1 indicate a marked decrease in levels of all detected compounds, particularly TPH-G. In particular, the levels of TPH-G decreased to nearly the lowest level detected, in August, 1990. BTEX and TRPH also decreased, by an order-of-magnitude, from the September 1994 sampling event. The levels of petroleum hydrocarbons in wells MW-2 and MW-3 are overall increased, although of the same order of magnitude as previous sampling events.

Free product was not observed in the initial sounding of the wells, although a sheen (floating film) of oil was observed in well MW-1. The purge water from well MW-1 during previous well sampling events has consistently contained globules of "oil", which were not present during this sampling round.

IV. RECOMMENDATIONS

Notwithstanding the apparent decline in MW-1 petroleum hydrocarbon detection, we recommend initiation of site remediation as previously recommended.

V. LIMITATIONS

This report has been prepared according to generally accepted geologic and environmental practices. No other warranty, either expressed or implied as to the methods, results, conclusions or professional advice provided is made. The analysis, conclusions and recommendations contained in this report are based on site conditions as they existed at the time of our investigation; review of previous reports relevant to the site conditions; and laboratory results from an outside analytical laboratory.

Changes in the information or data gained from any of these sources could result in changes in our conclusions or recommendations. If such changes do occur, we should be advised so that we can review our report in light of those changes.

TABLE 1 **GROUND WATER ELEVATION DATA** (All Measurements in Feet)

Well Number	Well Top Elevation (2)	Depth to Water	Relative Ground Water Elevation (2)
MW-1 8/6/90 1/28/92 4/27/92 8/10/92 2/11/94 2/28/94 9/9/94 12/28/94	37.0	21.5 21.0 20.95 22.20 15.93 (3) 13.85 (4) 20.19 14.91	15.5 16.0 16.05 14.8 21.07 23.15 16.81 22.09
MW-2 2/11/94 2/28/94 9/9/94 12/28/94 MW-3	36.40	14.16 (3) 16.01 (4) 18.96 21.42	22.24 \(\) 20.39 \(\) 17.44 \(\) 14.98 \(\)
2/11/94 2/28/94 9/9/94 12/28/94	36.94	6.97 (3) 7.74 (4) 9.68 8.15	29.97 29.20 27.26 28.79

Notes:

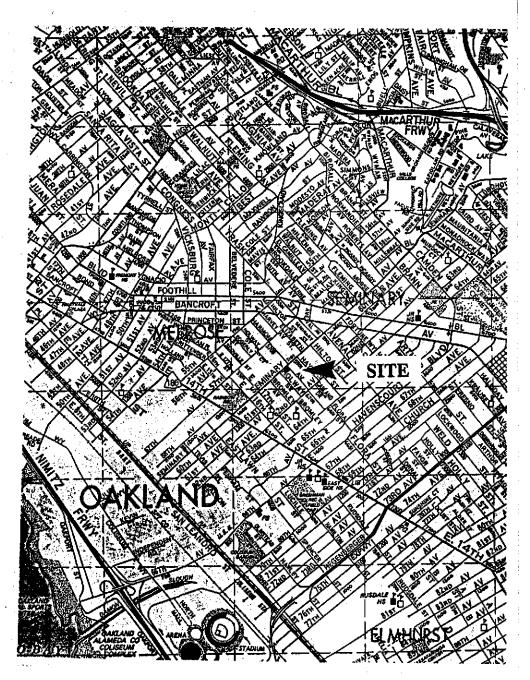
- N/A = Not applicable
 City of Oakland datum
- (3) Well under pressure when locking cap removed; water level may not have been stabilized
- (4) Depth to water was measured over a 120 minute period; indicated depths are final, stabilized readings

TABLE 2 SUMMARY OF ANALYTICAL TEST RESULTS - GROUND WATER (Results reported in parts per million, mg/l) (1)

Well and Date	TPH Gasoline	Benzene	Toluene	Xylenes	Ethyl- benzene	Oil & Grease
MW-1 8/6/90 (2) 1/28/92 (3) 4/27/92 (3) 4/27/92 (4) 8/10/92 (3) 2/11/94 (3) 9/9/94 (3) 12/28/94 (3	54 2,000 500 175 170	3.5 7.4 3.4 4.2 4.2 ND	3.2 17.0 6.4 4.4 4.2 5.1 61 5.3	9.4 120.0 45.0 14.6 15.0 23.0 137 5.8	1.9 28.0 10.0 3.2 3.3 5.2 9.1 1.4	7.6 75 (5) 440 (6) N/A 120 (6) 16 (6) 880 (6) 83 (6)
MW-2 2/11/94 (3) 9/9/94 (3) 12/28/94 (3) MW-3 2/11/94 (3) 9/9/94 (3) 12/28/94 (3)	ND 0.710	0.022 0.089 0.100 ND 0.010 0.0078	0.0011 ND 0.0038 ND ND ND	0.0073 0.00069 0.0047 ND 0.0035 0.073	0.0052 ND 0.0054 ND ND ND 0.130	ND (6) ND (6) 5.1 (6) ND (6) ND (6) ND (6)

Notes:

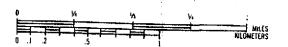
- ND non-detect; N/A not applicable
 Kaldveer Associates report, September, 1990
- (3) Sequoia Analytical Laboratory(4) Applied Remediation Laboratory
- (5) Gravimetric Method (6) Infrared Method





ALAMEDA COUNTY

1991 Thomas Guide.





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Geology Engineering Geology Environmental Studies

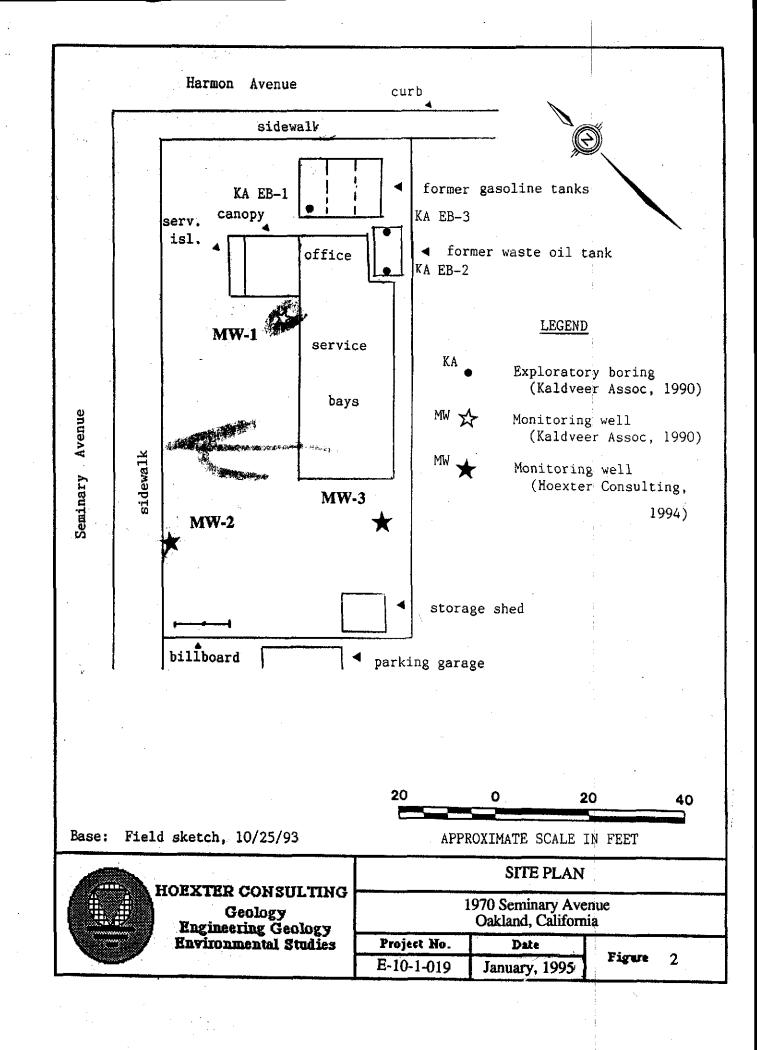
LOCATION	MAP
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1970 Seminary Avenue Oakland, California

riujest Mo.	Date
E-10-1-019	January, 1995

Figure

1



APPENDIX I

WATER SAMPLE LOG CHAIN OF CUSTODY ANALYTICAL TEST RESULTS

HOEXTER CONSULTING

Groundwater Sampling Field Log

Project	Name/ N	Vo: <u>5≥mc</u>	NOT 7	18-10-1-019]	Lab I.D	1: 94126	68-01
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	Sample I	Depth (feet):			14-91)(0.1			
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	-				Inches	'	Centimeters	2.5400

HOEXTER CONSULTING

Groundwater Sampling Field Log

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HOEXTER CONSULTING

Groundwater Sampling Field Log

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3.0 4.0		3672 0.0491 6528 0.0873	4.560 1.3	3900	Gallons	Liters	3.7850
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	equested urnaround Fine:	_No	RMAG				Contact:	D	AVID F.	HOEXT	ER	-	Pho	ne	415	- 4	194-2505 F	Hoexter Consult

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

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Hoexter Consulting Eng'g Geo

Client Proj. ID:

E-10-1-019, Seminary

Sampled: 12/28/94 Received: 12/28/94

734 Torreya Court Palo Alto, CA 94303

Lab Proj. ID: 9412G68

Received: 12/28/94 Analyzed: see below

Attention:

David F. Hoexter

Reported: 01/10/95

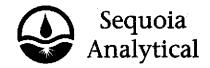
LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9412G68-01 Sample Desc : LIQUID,MW-1				
TRPH (EPA 418.1)	mg/L	01/06/95	50	83
Lab No: 9412G68-02 Sample Desc : LIQUID,MW-2				
TRPH (EPA 418.1)	mg/L	01/06/95	5.0	5.1
Lab No: 9412G68-03 Sample Desc : LIQUID,MW-3				
TRPH (EPA 418.1)	mg/L		5.0	N.D.

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

SEQUOIA ANALYTICAL - ELAP #1210

Suzanne Chin Project Manager



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Hoexter Consulting Eng'g Geo

Attention: David F. Hoexter

734 Torreya Court # Palo Alto, CA 94303 Client Proj. ID: E-10-1-019, Seminary

Sample Descript: MW-1

Matrix: LIQUID

Analysis Method: 8015Mod/8020

Lab Number: 9412G68-01

Sampled: 12/28/94 Received: 12/28/94

Analyzed: 01/06/95

Reported: 01/10/95

QC Batch Number: GC010695BTEX06A

Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L		Sa	Sample Results ug/L	
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:		10000 100 100 100 100		55000 3700 5300 1400 5800 Gas	
Surrogates Trifluorotoluene	Co 70	ntrol Limits %	6 % R	ecovery	

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

SEQUOIA ANALYTICAL

ELAP #1210

Suzanne Chin

Project Manager

Page:



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Hoexter Consulting Eng'g Geo 734 Torreya Court Palo Alto, CA 94303

Client Proj. ID: E-10-1-019, Seminary

Sample Descript: MW-2 Matrix: LIQUID

Analysis Method: 8015Mod/8020

Lab Number: 9412G68-02

Sampled: 12/28/94 Received: 12/28/94

Analyzed: 01/06/95 Reported: 01/10/95

QC Batch Number: GC010695BTEX06A Instrument ID: GCHP06

Attention: David F. Hoexter

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Lin ug/L	nit Sample Results ug/L
TPPH as Gas		330
Benzene Toluene	1.0 1.0	
Ethyl Benzene Xylenes (Total)	1.0 1.0	5.4 4.7
Chromatogram Pattern: Discrete Peak	••••••	Gas+

Surrogates	Control Limits	% Recovery
Trifluorotoluene	70	130 119

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

ELAP #1210

Suzanne Chin Project Manager

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Hoexter Consulting Engig Geo 734 Torreya Court Palo Alto, CA 94303

Attention: David F. Hoexter

Client Proj. ID: E-10-1-019, Seminary

Sample Descript: MW-3

Matrix: LIQUID

Analysis Method: 8015Mod/8020

Lab Number: 9412G68-03

Sampled: 12/28/94 Received: 12/28/94

Analyzed: 01/06/95 Reported: 01/10/95

QC Batch Number: GC010695BTEX06A

Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

the state of the s	Total Targettale Total Carrier Try Will Braze					
Analyte		Detection Limit ug/L		Sample Results ug/L		
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern: Weathered Gas		5.0 5.0		7.8 N.D.		
Surrogates Trifluorotoluene		Control Limits %	130	Recovery		

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

Suzanne Chin Project Manager

Page:



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Hoexter Consulting Engrg. Geol.

734 Torreya Court

Client Project ID:

E-10-1-019, Seminary

Matrix:

Liquid

Palo Alto, CA 94303

Attention: David F. Hoexter

Work Order #:

9412G68 -01-03

Reported:

Jan 10, 1995

QUALITY CONTROL DATA REPORT

Analyte: Total Recoverable

Petroleum Hydrocarbons

QC Batch#: IN0106954181FTA Analy. Method: EPA 418.1 Prep. Method: N/A

Analyst: MS/MSD #: K. Hynes BLK010695

Sample Conc.: Prepared Date: Analyzed Date: N.D. 1/6/95

Instrument I.D.#: Conc. Spiked: 1/6/95 FTIR1 7.0 mg/L

Result:

6.9

MS % Recovery:

99

Dup. Result:

7.1

MSD % Recov.:

101

RPD:

IUI

RPD Limit:

2.9 0-30

LCS #:

Prepared Date:

Analyzed Date:

Instrument I.D.#:

Conc. Spiked:

LCS Result: LCS % Recov.:

MS/MSD

70-130

LCS

Control Limits

rolect Manager

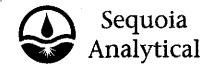
SEQUOA ANALYTICAL

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

9412G68.HHH <1>



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Hoexter Consulting Engrg. Geol.

Client Project ID:

E-10-1-019, Seminary

734 Torreya Court

Matrix:

Liquid

Palo Alto, CA 94303

Attention: David F. Hoexter

Work Order #:

9412G68-01-03

Reported:

Jan 10, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluena	Ethyl	Xylenes	
			Benzene	*	
QC Batch#:	GC010695BTEX06A	GC010695BTEX06A	GC010695BTEX06A	GC010695BTEX06A	~ <i>∞</i>
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	
Prep. Method:	N/A	N/A	N/A	N/A	
	_				:
Analyst:		C. Donohue	C. Donohue	C. Donohue	
MS/MSD #:		9412 3501	9412/3501	9412 3501	:
Sample Conc.:		N.D.	N.D.	N.D.	
Prepared Date:		N/A	N/A	N/A	
Analyzed Date:		1/6/95	1/6/95	1/6/95	
instrument I.D.#:		GCHP6	GCHP6	GCHP6	
Conc. Spiked:	10 μg/L	10 μg/L	10 μg/L	30 μg/L	
Result:	11	10	11	31	
MS % Recovery:			* *	- -	6
wis % necovery.	110	100	110	103	
Dup. Result:		8.6	8.7	25	
MSD % Recov.:	90	86	87	83	•
RPD:	20	15	23	21	
RPD Limit:		0-50	0-50	0-50	
LCS #:	BLK010594	BLK010594	BLK010594	BLK010594	
Prepared Date:	1/6/95	1/6/95	1/6/95	1/6/95	
Analyzed Date:		1/6/95	1/6/95	1/6/95	
Instrument I.D.#:		GCHP6	GCHP6	GCHP6	:
Conc. Spiked:		10 μg/Ľ	10 μg/L	30 μg/L	
LCS Result:	4.			·	ł
	• •	10	10	31	
LCS % Recov.:	100	100	100	103	
MS/MSD	·				
LCS Control Limits	71-133	72-128	72-130	71-120	· · !

SEQUÓIA ANALYTICAL

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

9412G68.HHH <2>