

135 Main Street, Suite 1800 ◆ San Francisco, CA 94105 ◆ (415) 543-4880 ◆ FAX (415) 543-5480

May 30, 2000

Barney Chan Hazardous Materials Specialist Alameda County Health Care Services Agency Environmental Health Services 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577

Subject:

Submittal of February 2000 Quarterly Groundwater Monitoring Reports for

J. W. Silveira Company Sites at

1200 20th Avenue and 744 East 12th Street, Oakland, California

#### Dear Mr.Chan:

Enclosed please find one copy each of the February 2000 quarterly groundwater monitoring reports for the sites at 1200 20<sup>th</sup> Avenue and 744 East 12<sup>th</sup> Street in Oakland, California. Tetra Tech EM Inc. (TtEMI) conducted the first round of quarterly sampling in the year 2000 at your request for J.W. Silveira Company.

Thank you for your assistance. Please call me at (415) 222-8316 with any questions.

Sincerely,

Hal Dawson

Project Manager/Geologist

cc:

J.W. Silveira Company Shapiro Buchman Provine & Patton LLP File

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135 Main Street, Suite 1800 • San Francisco, CA 94105 • (415) 543-4880 • FAX (415) 543-5480

May 30, 2000 J. W. Silveira Company 499 Embarcadero Oakland, California 94606

Subject:

February 2000 Quarterly Monitoring Report for the Site Located at 744 E 12<sup>th</sup> Sreet, Oakland, California

#### INTRODUCTION

The site is located at the northeast corner of the intersection of East 12th Street and 8th Avenue in Oakland, California (Figure 1). One 500-gallon underground storage tank (UST) was previously located at the site. The UST reportedly contained gasoline and was removed in April 1996. Based on drawings provided in the Tank Closure Report, the approximate size of the former tank was 5 feet long by 4 feet in diameter. The UST had not been in use for 10 years prior to being removed and was reportedly empty at the time of the removal. During removal of the UST, it was noted that the single-walled steel tank had rusted through and had leaked. The approximate surface area of the removal excavation was 11 feet by 6 feet and the UST was located in the southwestern portion of the excavation. Approximately 20 cubic yards of soil was over-excavated and transported off site for disposal. The bottom of the excavation was approximately 8 to 12 feet below the ground surface (bgs). The exact depth to the bottom of the UST was not recorded during the removal activities; the estimated depth to the bottom of the former UST is 6 feet bgs.

During the UST removal activities, five soil samples were collected from the sidewalls and bottom of the removal excavation. The soil samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX), total petroleum hydrocarbons (TPH) as gasoline (TPH-g), and total lead. The highest concentrations of BTEX and TPH-g were detected in the southwestern end of the excavation. Lead concentrations in soil samples from the removal excavation were not elevated. Groundwater was not encountered during removal of the UST.

Three monitoring wells, identified on Figure 2 as MW-1, MW-2, and MW-3, were installed at the site during the 1999 additional site characterization. The location of MW-3 was moved northeast (closer to the former location of the UST) from the proposed location in the Work Plan. The change in the location of MW-3 was due to the presence of underground and overhead utility lines in the vicinity of the proposed location for MW-3. This report discusses the February 2000 quarterly groundwater sampling of the three groundwater monitoring wells at the site.

#### GROUNDWATER GRADIENT

Groundwater elevations were measured in each of the monitoring wells at the site during the quarterly sampling event that was conducted on February 9, 2000. The depth to groundwater from the top of casing at each well, the top of casing elevations for each well, and the groundwater elevations measured at the site are presented in Table 1. The groundwater flow direction and gradient at the site were calculated using these data. The groundwater flow direction is south 70 degrees west (S70W), as shown on Figure 3; this flow direction follows the site topography. MW-3 is downgradient from the location of the former UST, and MW-1 and MW-2 are slightly upgradient to the north and southeast, respectively, of the former UST location. The groundwater gradient was calculated to be 0.005 feet/foot (ft/ft).

#### GROUNDWATER SAMPLING ACTIVITIES

For the first quarterly sampling event in the year 2000, the three monitoring wells at the site were sampled on February 9, 2000. Each well was purged with a dedicated disposable teflon bailer. The well volume was calculated and a minimum of 1 to 2 well volumes was removed from each well prior to sampling. During removal of the 1 to 2 well volumes from each well, the following physical parameters of the groundwater being removed from the well were monitored: pH, temperature, electrical conductivity, dissolved oxygen, and turbidity. These physical parameters were monitored to determine when the groundwater entering the well casing had stabilized. After the physical parameters of the groundwater had stabilized and a minimum of 1 to 2 well volumes had been removed from each well, groundwater samples were collected from each well. The groundwater samples were sent to an analytical laboratory to be analyzed for BTEX, methyl tertiary-butyl ether (MTBE), and TPH-g.

GROUNDWATER ANALYTICAL RESULTS

Benzene and MTBE were the only two compounds detected in groundwater during this round of

quarterly sampling. Ethylbenzene, toluene, total xylenes, and TPH-g were not detected in any

of the groundwater samples collected from the site. Table 2 presents the analytical results for the

February 2000 quarterly sampling event at the site. Benzene and MTBE were only detected in the

groundwater sample collected from MW-3 (sample number JW3-14); the detected concentrations

of these compounds were 2.4 micrograms per liter (ug/L) and 29 ug/L, respectively.

CONCLUSIONS AND RECOMMENDATIONS

This report presents the analytical results of the February 2000 quarterly groundwater monitoring

event for the three wells located at the site. The contaminant concentrations in the groundwater at

the site continue to range from not detectable to relatively low levels.

TtEMI commenced quarterly sampling at the site in February 2000. Based on discussions with the

Alameda County Health Care Services Agency, if four quarters of analytical groundwater data show

that the contaminant concentrations are at acceptable concentrations and/or are decreasing over time,

site closure will be attainable. Thus, TtEMI recommends completion of four quarters of groundwater

monitoring at this site.

Should you have any questions, please contact the undersigned project manager, Hal Dawson, at

(415) 222-8316.

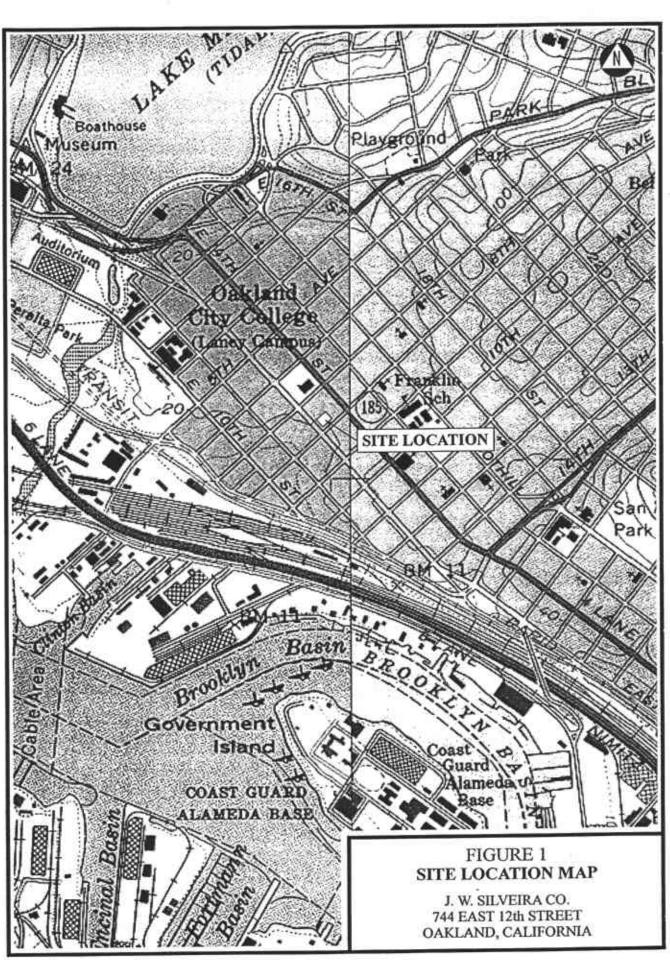
Sincerely,

Jerry Wickham

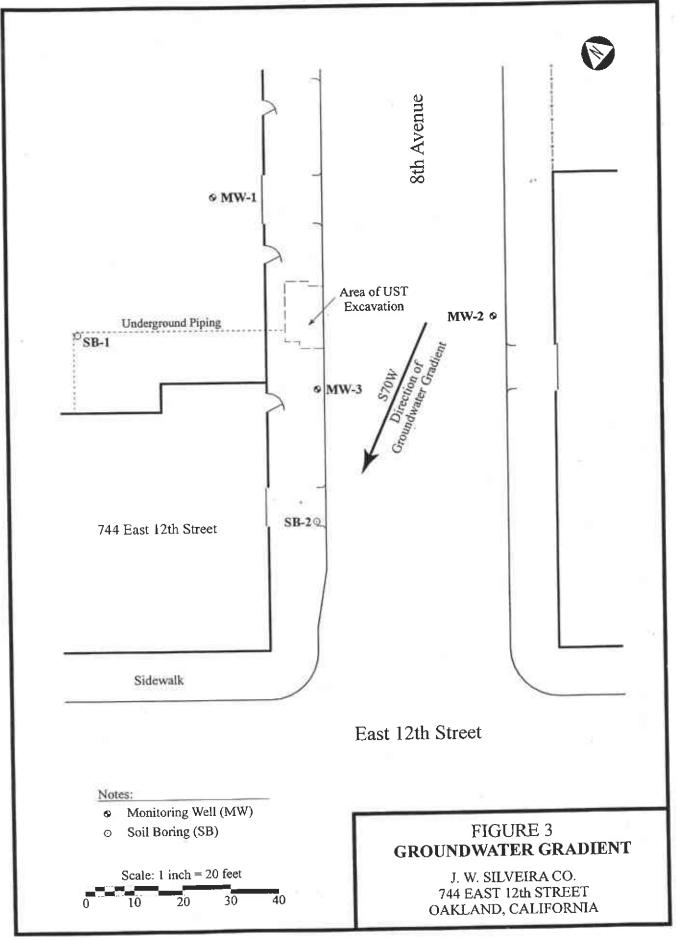
Registered Geologist #3766

Hal Dawson

**TtEMI Project Manager** 



Tetra Tech EM Inc.



## TABLE 1 GROUNDWATER ELEVATIONS 744 EAST 12<sup>TH</sup> STREET

Date	Ground	water Elevations fro	m TOC
	MW-1	MW-2	MW-3
2/9/00	9.13	9.07	8.9

M	otes	

MW-1 Monitoring Well Number 1

MW-2 Monitoring Well Number 2

MW-3 Monitoring Well Number 3

TOC Top of Casing

MW-1 TOC Elevation (in feet)/Depth to Groundwater from TOC (in feet) - 18.17/9.04

MW-2 TOC Elevation (in feet)/Depth to Groundwater from TOC (in feet) - 16.71/7.64

MW-3 TOC Elevation (in feet)/Depth to Groundwater from TOC (in feet) - 16.35/7.45

# TABLE 2 QUARTERLY GROUNDWATER MONITORING RESULTS FOR FEBRUARY 2000 744 EAST 12TH STREET

Analyte	TV	lonitaring We	I
	MW-1	MW-2	MW-3
VOC (call)	Sample JW3-12	Sample JW3-13	Sample JW3-14
VOC (μg/L) Benzene	ND	ND	2.4
Ethylbenzene	ND	NO	ND
Toluene	ND ·	ND	ND
m,p-Xylenes	ND	ND	ND
o-Xylene	ND	ND	ND
MTBE	ND	ND	29
	MW-1	MW-2	MW-3
	Sample	Sample	Sample
TPH (µg/L)	JW3-09	JW3-10	JW3-11
Gasoline	<b>N</b> D	ND	ND

#### Notes:

μg/L micrograms per Liter

ND Not Detected

TPH Total Petroleum Hydrocarbons VOC Volatile Organic Compound

## APPENDIX A ANALYTICAL DATA PACKAGE



**Chain of Custody Record** 

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Page		of		

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Fax 415-543-5480		· ,	)			No	)./C	ont	aine	r Type	S			An	aly	SIS F	<b>c</b> equ	irec	1 ,		_
Project name: 744 E 12757.	TtEMI technic	eal contact:	Field samplers:	1500			1		1				اي	8	<u>8</u>						.
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Received by:	` • · ·				
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Received by:					

Turnaround time/remarks:



# Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900, Fax (510) 486-0532

DECEIVED

#### Laboratory Number 143868

#### Aromatic Volatile Organics by GC/MS EPA 8260

.- TETRA TECH EM INC.

Tetra Tech EMI 135 Main Street

Suite 1800

San Francisco, CA 94105

Project#: P110604

Location: JW Silveira Props

Sample ID	Lab ID
JW3-0712	143868-001
JW3-D8 13	143868-002
JW3-29-14	143868-003
TRIP BLANK	143868-004

2/2/100

I certify that this data package has been reviewed for technical correctness and completeness. Please see attached narrative for a discussion of any analytical problems related to this sample set. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

The case narrative is an integral and inseparable part of this report.

Signature: Tues k Morris for JG
Title: Operations Manager,

Signature: Worthum

Title: Project Manager

Date: 3/17/00

Date: 3/17/00 0001



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JW Silveira Props Location: Lab #: 143868 EPA 5030 Prep: Client: Tetra Tech EMI Analysis: EPA 8260B Project#: P110604 53,818 JW3-DT 12 Batch#: Field ID: 02/09/00 Lab ID: 143868-001 Sampled: 02/10/00 Received: Matrix: Water 02/16/00 Analyzed: Units: ug/L Diln Fac: 1.000

Analyte	Result	RL	
MTBE	ND	. 0.5	
Benzene	ND	0.5	
Toluene	ND	0.5	
	ND	0.5	
m.p-Xylenes	ND	0.5	
Ethylbenzene m,p-Xylenes o-Xylene	ND	0.5	

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	103	78-123
Toluene-d8	100	80-110
Bromofluorobenzene	98	80-115



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Lab #:	143868		Location:	JW Silveira Props
Client:	Tetra Tech EMI		Prep:	EPA 5030
Project#:	P110604		Analysis:	EPA 8260B
Field ID:	JW3-D8-13		Batch#:	53818
Lab ID:	143868-002		Sampled:	02/09/00
Matrix:	Water	3/2/10	Received:	02/10/00
Units:	ug/L	Marine	Analyzed:	02/16/00
Dilm Fac:	1.000		-	

Result	RL	
ND	0.5	•
ND	0.5	
ND	0.5	
ND ´	0.5	
ND	0.5	
ND	0.5	
	ND ND ND ND ND	ND 0.5 ND 0.5 ND 0.5 ND 0.5 ND 0.5 ND 0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	103	78-123
Toluene-d8	99	80-110
Bromofluorobenzene	98	80-115



Lab #:	143868	Location:	JW Silveira Props
Client:	Tetra Tech EMI	Prep:	EPA 5030
Project#:	P110604	Analysis:	EPA 8260B
Field ID:	JW3-0914 ,	Batch#:	53818
Lab ID:	143868-003 Trules	Sampled:	02/09/00
Matrix:	Water	Received:	02/10/00
Units:	ug/L	Analyzed:	02/16/00

Analyte	Result	RL	
MTBE	29	0.5	
Benzene	2.4	0.5	
Toluene	ND	0.5	•
	ND	0.5	
m.p-Xvlenes	ND	0.5	•
Ethylbenzene m,p-Xylenes o-Xylene	ND	0.5	<u> </u>

Surrogate	%REC	Limits	
1,2-Dichloroethane-d4	103	78-123	
Toluene-d8	100	80-110	
Bromofluorobenzene	98	80-115	

Diln Fac:

1.000



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Lab #:	143868	Location:	JW Silveira Props
Client:	Tetra Tech EMI	Prep:	EPA 5030
Project#:	P110604	Analysis:	EPA 8260B
Field ID:	TRIP BLANK	Batch#:	53792
Lab ID:	143868-004	Sampled:	02/09/00
Matrix:	Water	Received:	02/10/00
Units:	ug/L	Analyzed:	02/15/00
Diln Fac:	1.000		

Analyte	Result	RL	
MTBE .	MD	0.5	
Benzene	ND	0.5	
Toluene	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
Ethylbenzene m,p-Xylenes o-Xylene	ND	0.5	

Surrogate	%REC	Limits	
1,2-Dichloroethane-d4	100	78-123	•
Toluene-d8	100	80-110	
Bromofluorobenzene	113	80-115	 



	matice		

Lab #:	143868	Location:	JW Silveira Props
Client:	Tetra Tech EMI	Prep:	EPA 5030
Project#:	P110604	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	53792
MSS Lab ID:	143869-001	Sampled:	02/09/00
Matrix:	Water	Received:	02/09/00
Units:	ug/L	Analyzed:	02/15/00
Diln Fac:	1.000		

Type:

MS

Lab ID:

QC107987

Analyte		Spiked	Result	%RE	C: Limits
Benzene	<5.000	50.00	45.50	91	80-114
Toluene	<5.000	50.00	46.05	92	79-12]

Surrogate	%REC	Limits	
1,2-Dichloroethane-d4	98	78-123	
Toluene-d8	97	80-110	
Bromofluorobenzene	101	80-115	

Type:

MSD

Lab ID:

QC107988

Analyte		Spiked	Re	sult	%RE(	C Limits	RPD	Lii
Benzene		50.00	•	45.05	90	80-114	1	20
Toluene		50.00	•	45.61	91	79-121	1	20
Surrogate	%REC	Limits						9000000000
1,2-Dichloroethane-d4	100	78-123						
Toluene-d8	98	80-110						
,	100	00 335						



	Purgeab	le Aromatics by GC	YMS
Lab #:	143868	Location:	JW Silveira Props
Client:	Tetra Tech EMI	Prep:	EPA 5030
Project#:	P110604	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	53818
Units:	ug/L	Analyzed:	02/16/00
Diln Fac:	1.000		5.5

BS

Lab ID:

QC108062

Analyte	Spiked	Result		2 Limits
Benzene	50.00	46.09	92	80-116
Toluene	50.00	47.22	94	80-120

Surrogate	%REC	Limits	
1,2-Dichloroethane-d4	98	78-123	
Toluene-d8	99	80-110	
Bromofluorobenzene	99	80-115	

Type:

BSD

Lab ID:

QC108063

Analyte	Spiked	Result	%REC	Limits	RPI	Lin
Benzene	50.00	44.46	89	80-116	4	20
Toluene	50.00	45.58	91	80-120	4	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	95	78-123
Toluene-d8	97	80-110
Bromofluorobenzene	99	80-115



#### Purgeable Aromatics by GC/MS

Lab #: Client: Project#

Type:

Lab ID:

143868 Tetra Tech EMI

P110604 LCS QC107972

Water ug/L

Matrix: Units:

Location:

Prep:

JW Silveira Props

EPA 5030 EPA 8260B

Analysis: Diln Fac:

1.000 Batch#: Analyzed:

53792 02/15/00

Analyte	Spiked		%RE	leimits
Benzene	50.00	44.92	90	80-116
Toluene	50.00	47.16	94	80-120

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	97	78-123
Toluene-d8	100	80-110
Bromofluorobenzene	102	80-115



# Purgeable Aromatics by GC/MS

JW Silveira Props Location: Lab #: 143868 EPA 5030 Prep: Client: Tetra Tech EMI EPA 8260B Analysis: Project#: P110604 1.000 Diln Fac: Type: BLANK Batch#: 53792 QC107973 · Lab ID: 02/15/00 Analyzed: Matrix: Water Units: ug/L

_	Analyte	Result	RL:
	MTBE	ND	0.5
	Benzene	ND	0.5
	Toluene	ND	0.5
	Ethylbenzene	ND	0.5
	m,p-Xylenes	ND	0.5
	Ethylbenzene m,p-Xylenes o-Xylene	ND	0.5

Surrogate	%rec	Limits
1,2-Dichloroethane-d4	100	78-123
Toluene-d8	99	80-110
Bromofluorobenzene	112	80-115



### Purgeable Aromatics by GC/MS

JW Silveira Props Lab #: 143868 Location: EPA 5030 Prep: Client: Tetra Tech EMI Project#: P110604 Analysis: EPA 8260B Diln Fac: 1.000 Type: BLANK QC108064 Batch#: 53818 Lab ID: 02/16/00 Analyzed: Matrix: Water Units: ug/L

Analyte	Result	RL	
MTBE	ND	0.5	
Benzene	ND	0.5	
Toluene	ND	0.5	
Ethylbenzene	ND	0.5	•
m,p-Xylenes	ND .	0.5	
Ethylbenzene m,p-Xylenes o-Xylene	ND	0.5	· ·

!	Surrogate	& <b>የ</b> ንም/ማ	Limits
	1,2-Dichloroethane-d4	103	78-123
	Toluene-d8	100	80-110
	Bromofluorobenzene	98	80-115



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Laboratory Number 143868

Total Volatile Hydrocarbons EPA 8015 (Mod)

TETRA TECH EM INC.

Tetra Tech EMI 135 Main Street

Suite 1800

94105 San Francisco, CA

Project#: P110604

Location: JW Silveira Props

Lab ID Sample ID

JW3-0712 143868-001 143868-002 JW3-9813 143868-003 JW3-0914

I certify that this data package has been reviewed for technical correctness and completeness. Please see attached narrative for a discussion of any analytical problems related to this sample set. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

The case narrative is an integral and inseparable part of this report.

Signature: Tues & Morrison for JG
Title: Operations Manager

Signature: Title: Project Manager Date: 8/17/00



**Laboratory Number: 143868** 

Client: Tetra Tech EMI Location: Silveira Site 2

Project#: P110604

Receipt Date: 02/10/00

# TPH-PURGEABLES CASE NARRATIVE

This hardcopy data package contains sample and QC results for three water samples that were received on February 10, 2000.

No analytical problems were encountered.



by GC/FID CA	

JW Silveira Props Location: Lab #: 143868 EPA 5030 Tetra Tech EMI Prep: Client: EPA 8015M Analysis: P110604 Project#: 53760 Batch#: Field ID: JW3-2712 02/09/00 Sampled: 143868-001 Lab ID: 02/10/00% Received: Matrix: Water 02/14/00 Prepared: ug/L Units: 02/15/00 Analyzed: 1.000 Diln Fac:

Analyte		
Gasoline C7-C12	ND	50

	Surrogate	&R	RC Limits	
	rifluorotoluene (FID	) 103	59-135	
Bı	romofluorobenzene (F	ID) 108	60-140	



143868	Location:	JW Silveira Props
Tetra Tech EMI	Prep:	EPA 5030
P110604	Analysis:	EPA 8015M
JW3-08 13	Batch#:	53760
143868-002	Sampled:	02/09/00
Water	Received:	02/10/00
حاليداو قبدلا	Prepared:	02/14/00
1.000	Analyzed:	02/15/00
	143868 Tetra Tech EMI P110604 JW3-98 13 143868-002 Water ug/L  **Magazine**	Tetra Tech EMI Prep: P110604 Analysis:  JW3-98/13 Batch#: 143868-002 Sampled: Water Received: ug/L Prepared:

Analyte	Result	RL
Gasoline C7-C12	ND	50

	Surrogate	%REC	Limits	
	Trifluorotoluene (FID)	102	59-135	
L	Bromofluorobenzene (FID)	108	60-140	



		Gasoline	by GC/FID CA LU	JFT
Lab #:	143868		Location:	JW Silveira Props
Client:	Tetra Tec	h EMI	Prep:	EPA 5030
Project#:	P110604		Analysis:	EPA 8015M
Field ID:	JW3-09-14		Batch#:	53760
Lab ID:	143868-00	3	Sampled:	02/09/00
Matrix:	Water	ma	Received:	02/10/00
Units:	ug/L	3/24/00	Prepared:	02/14/00
Diln Fac:	1.000	·	Analyzed:	02/15/00

Analyte	Result		
Gasoline C7-C12	ND	50	

Surrogate	%REC	Limits	
Trifluorotoluene (FID)	101	59-135	
Bromofluorobenzene (FID)	109	60-140	



Gasoline by GC/FID CA LU	

Lab #:	143868	Location:	JW Silveira Props
Client:	Tetra Tech EMI	Prep:	EPA 5030
Project#:	P110604	Analysis:	EPA 8015M
Field ID:	ZZZZZZZZZZ	Batch#:	53760
MSS Lab ID:	143892-005	${\tt Sampled:}$	02/10/00
Matrix:	Water	Received:	02/10/00
Units:	ug/L	Analyzed:	02/14/00
Diln Fac:	1.000		

Type:

MS

Lab ID:

QC107854

I	ON DER KOREN PERKENDER FOR KONNEN KONNEN BEKANDER KAN AT KOM ANDER KONNEN SE	MCC Recult	Spiked			Limits
	Gasoline C7-C12	<50.00	2,000	2,158	108	65-131
. '			<del></del>			•

۱	Surrogate	%REC	Limits
Ш	Trifluorotoluene (FID)	116	59-135
	Bromofluorobenzene (FID)	113	60-140

Type:

MSD

Lab ID:

QC107855

			Result	9.00/	Limits	DDN	***
Analyte Gasoline C7-C12		2,000	1,975	99	65-131	9	20
odogiatic c. oza							
Surrogate	%rec	Limits					
Trifluorotoluene (FID)	113	59-135					
Bromofluorobenzene (FID)	112	60-140					



	Gasoli	ne by GC/FID CA LU	JPT
Lab #:	143868	Location:	JW Silveira Props
Client:	Tetra Tech EMI	Prep:	EPA 5030
Project#:	P110604	Analysis:	EPA 8015M
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC107851	Batch#:	53760
Matrix:	Water	Analyzed:	02/14/00
Units:	ug/L		

Gasoline C7-C12	* .	2,000	2,097	105	73-121
Surrogate	%REC	Limits			
Trifluorotoluene (FID)	111	59-135	···		
- (TTD)	100	CO 140			



# Gasoline by GC/FID CA LUFT

Lab #: 143868
Client: Tetra Tech EMI
Project#: P110604
Type: BLANK
Lab ID: QC107853
Matrix: Water

ug/L

Units:

Location:
Prep:
Analysis:

JW Silveira Props EPA 5030 EPA 8015M

Diln Fac: Batch#:

1.000 53760

Analyzed: 02/14/00

Analyte	Result	RL:	
Gasoline C7-C12	ND	50	<del></del>

C			
Trifluorotoluene (FID)	97	59-135	
Bromofluorobenzene (FID)	99	60-140	