CSS

CSS ENVIRONMENTAL SERVICES, INC. 95 Belvedere Street, Suite 2
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(415) 457-9551
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August 15, 2001

Mr. Farrok Hosseinyoun DDH Group LLC 95 Belvedere Street, Suite 1 San Rafael, CA 94901 AUG 2 3 2001

SUBJECT:

Preliminary Site Assessment for the Property Located at 15101 Freedom Avenue, San Leandro, California CSS Project No. 6159

3100

Dear Mr. Hosseinyoun:

This letter report transmits the results of a Preliminary Site Assessment (PSA) completed by CSS Environmental Services, Inc. (CSS) at the subject property, herein referred to as the site, whose location is shown on Figure 1, Site Location Map. The PSA consisted of the collection and analysis of soil and groundwater samples from five subsurface borings at the locations shown on Figure 2, Site Plan. Samples were analyzed for gasoline and related petroleum hydrocarbon compounds and the results of the analyses are summarized in Table 1, Summary of Analytical Results. As detailed in this report, the results indicate that petroleum hydrocarbons have been released to soil and groundwater at the subject property.

Following the text of this letter report you will find the following attachments:

- Figures 1 and 2,
- Table 1,
- Copies of each of the Field Log of Boring forms Attachment A
- Copies of all Analytical Laboratory Reports Attachment B

A complete copy of this report should be forwarded to lead regulatory agency for this site:

Alameda County Health Care Services Agency Environmental Health Division 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502

Attn: Mr. Scott Seary, CHMM



Background

This PSA was performed at the request of the Alameda County Health Care Services Agency, Department of Environmental Health (ACDEH) to further investigate potential petroleum hydrocarbon releases discovered during the removal and upgrade of underground storage tanks (USTs) at the site. CSS performed the PSA following the Workplan originally prepared by Cambria Environmental Technology and modified by Hanover Environmental Services, Inc. At the time of the field investigation the site was being renovated for continued use as a commercial gas station. New fueling facilities including a single site building were evident at the site.

Investigation and Interpretation Methods

CSS retained the services of the following subcontractors in the execution of the PSA. California Utility Surveys provided subsurface utility clearance services, Fisch Environmental Exploration Services provided C-57 licensed drilling services, and Entech Analytical Labs, Inc. provided California-certified analytical laboratory services.

Drilling was conducted on July 5, 2001 under boring permit number W01-523 from the Alameda County Public Works Agency, Water Resources Section. A copy of the permit is attached. Drilled borings were completed using a direct-push Geoprobe 6600 drilling unit mounted in a small panel truck. Continuous soil samples were collected for observation using a 1-3/4 inch outside diameter steel rod lined with 4-foot long Butyrate tubes. Soils in each recovered tube were logged by a California-registered Professional Engineer, inspected for visual indications of contamination, and the screened for the presence of volatile organic compounds (VOCs) using an Organic Vapor Meter. Copies of the Field Log of Boring forms are attached. For borings where groundwater was immediately available in the open boring (SB-1, SB-2, and SB-5), a new \(^3\)4 inch diameter disposable mini-bailer was inserted directly into the open boring for the purposes of collecting water samples. In boring SB-4, where groundwater was slow to recover, a temporary 1-inch diameter screened casing was inserted into the boring to allow time for water to recharge prior to sampling. At boring SB-3 sloughing pea gravel precluded the collection of soil samples. At this boring, Hydropunch technology was deployed to allow the recovery of water samples.

A single soil sample was selected from each boring except SB-3 for analysis based on field screening methods described above. In each case, screening methods indicated that soils in the capillary fringe showed the strongest evidence of potential VOCs and each analyzed sample was collected from between 24.5 and 25.5 feet below ground surface (bgs). For each soil sample, the ends of the sample tube were covered with Teflon-lined plastic caps, labeled and stored in an insulated container with ice. The samples were labeled sequentially (SB-1, SB-2, etc.) with the final field of the sample ID indicating the depth to the top of sample: e.g. sample SB-1-25.5 was collected from a depth of 25.5 feet in soil boring SB-1. Following the fieldwork, the samples were transferred to a sample refrigerator in CSS's office until pickup the following day by the analytical laboratory

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courier. Samples were submitted to the analytical laboratory under chain-of-custody protocol for pre-established analytical methods based on the suspected source area. The following analytical methods were applied to each soil and groundwater sample:

- Total Petroleum Hydrocarbons as gasoline (TPHg) by Method 8015M,
- Benzene, Toluene, Ethylbenzene, total Xylenes and Methyl Tertiary Butyl Ether (MTBE) by Method 8020, and
- Confirmation of positive MTBE detections by Method 8260B.

To interpret the analytical laboratory results, soil and groundwater concentrations were compared to the Risk-Based Screening Levels (RBSLs) recommended by the California Regional Water Quality Control Board, San Francisco Bay Region in their Interim Final – August 2000 document "Application of Risk-Based Screening Levels and Decision Making to Sites with Impacted Soil and Groundwater." The RBSLs found to be most relevant to this investigation are those for subsurface soil (> 3M bgs) at properties with commercial/industrial land use where groundwater is a current or potential source of drinking water. The RBSLs for the compounds tested are as follows:

Compound	Soil RBSL (mg/kg)	Groundwater RBSL (ug/L)
TPH (gasolines)	100	100
Benzene	0.045	1.0
Toluene	2.6	40
Ethylbenzene	2.5	30
Total Xylenes	1.0	13
MTBE	0.028	5.0

Comparison to the RBSLs is not intended to represent a comprehensive site risk assessment, but is presented as a preliminary indication of the significance of hydrocarbon impacts at the site.

Results of Subsurface Investigation

Native site soils encountered in borings SB-1, SB-2, SB-4 and SB-4 are predominated by clay with varying percentages of sand. A 12-inch section of well-graded sand was observed in SB-5 between 19 and 20 feet bgs. In boring SB-3, ½-inch diameter pea gravel was encountered to an apparent depth of 24 feet bgs (reported by the driller based on Geoprobe resistance), presumably fill around an existing UST or backfill from prior UST removal activities. Due to pea gravel sloughing this boring could not be logged nor could a soil sample be collected.

Saturated soils, primarily clayey sand, were first encountered in borings primarily at depths between 29 and 31 feet bgs, the total depth explored. The shallow water-bearing zone appears to be semi-confined as groundwater in most borings recovered to depths approximately 17 to 20 feet bgs.

Among the borings where soil was screened, no hydrocarbon odors or indications of VOCs by OVM measurements were recorded shallower than 19 feet bgs, indicating that shallow hydrocarbon source soils have been previously removed. The majority of soils below this depth, but above the saturated zone, had indications of hydrocarbon impacts: gasoline odors and OVM readings. The maximum OVM readings from screened soils, up to 440 ppm_v in SB-4, were observed at depths between 24 and 26 feet bgs, indicating soil impacts in the site's capillary fringe.

The analytical results of soil and groundwater samples from Entech Analytical Labs, Inc. are attached and are summarized in Table 1. Detected concentrations indicated in bold in Table 1 are in excess of their respective RBSLs. TPH-g and related hydrocarbon compounds were detected in soil and groundwater in all of the collected samples and the majority of detected compound concentrations were found to exceed their respective RBSLs. In general the highest concentrations of TPH-g and related hydrocarbon compounds were detected in soil at location SB-1 and in groundwater at location SB-2. The locations of all borings are shown on the attached Figure 2.

Soil Results

All soil samples analyzed were collected from the capillary fringe at depths between 24.5 and 25.5 feet bgs. Soils shallower than 19 feet bgs had no indications of VOC impacts as screened by odor and OVM readings.

TPH-g was detected in soils at concentrations ranging from 78 mg/kg (SB-2) to 470 mg/kg (SB-1), with soil concentrations from SB-1 and SB-5 in excess of the 100 mg/kg RBSL. This RBSL is driven by protection of drinking water from soil leaching to a 0.1 mg/L EPA Suggested No-Adverse Response Limit (SNARL) for diesel.

Benzene was detected in soils at concentrations ranging from 0.37 mg/kg (SB-4/SB-5) to 2.6 mg/kg (SB-1), with all reported concentrations in excess of the 0.045 mg/kg RBSL. This RBSL is driven by protection of drinking water from soil leaching to a 1 ug/L drinking water standard.

Toluene was detected in soils at concentrations ranging from 0.37 mg/kg (SB-4) to 16 mg/kg (SB-1), with only SB-1's concentration in excess of the 2.6 mg/kg RBSL. This RBSL is driven by protection of drinking water from soil leaching to a 40 ug/L taste and odor threshold.

Ethylbenzene was detected in soils at concentrations ranging from 0.71 mg/kg (SB-4) to 12 mg/kg (SB-1), with only SB-1's concentration in excess of the 2.5 mg/kg RBSL. This RBSL is driven by protection of drinking water from soil leaching to a 30 ug/L taste and odor threshold.

Total Xylenes were detected in soils at concentrations ranging from 3.1 mg/kg (SB-4) to 73 mg/kg (SB-1), with all reported soil concentrations in excess of the 1.0 mg/kg RBSL.

This RBSL is driven by protection of surface waters from soil leaching to a 13 ug/L freshwater aquatic life protection level.

Ethylbenzene was detected in soils at concentrations ranging from 0.71 mg/kg (SB-4) to 12 mg/kg (SB-1), with only SB-1's concentration in excess of the 2.5 mg/kg RBSL. This RBSL is driven by protection of drinking water from soil leaching to a 30 ug/L taste and odor threshold.

MTBE was not detected in soils at the analytical method reporting limit of 0.005 mg/kg.

Groundwater Results

TPH-g was detected in groundwater from each of the borings at concentrations ranging from 25 mg/L (SB-3, SB-4) to 83 mg/L (SB-2), with all reported concentrations in excess of the 0.10 mg/L RBSL. This RBSL is the EPA's Suggested No-Adverse Response Limit (SNARL) for diesel.

Benzene was detected in groundwater from each of the borings at concentrations ranging from 680 ug/L (SB-5) to 19,000 ug/L (SB-2), with all reported concentrations in excess of the 1.0 ug/L RBSL. This RBSL is a primary drinking water standard.

Toluene was detected in groundwater from each of the borings at concentrations ranging from 220 ug/L (SB-3) to 1,800 ug/L (SB-2), with all reported concentrations in excess of the 40 ug/L RBSL. This RBSL is a secondary drinking water standard based on taste and odor thresholds.

Ethylbenzene was detected in groundwater from each of the borings at concentrations ranging from 220 ug/L (SB-3) to 1,500 ug/L (SB-2), with all reported concentrations in excess of the 30 ug/L RBSL. This RBSL is a secondary drinking water standard based on taste and odor thresholds.

Total Xylenes were detected in groundwater from each of the borings at concentrations ranging from 750 ug/L (SB-3) to 73,000 ug/L (SB-1), with all reported concentrations in excess of the 13 ug/L RBSL. This RBSL is a freshwater aquatic life protection level.

MTBE was detected in groundwater at each of the borings except SB-4. The maximum reported concentration was 87,000 ug/L at SB-2. The detected concentrations in SB-1, SB-2, SB-3 and SB-5 exceed the RBSL of 5.0 ug/L. This RBSL is a secondary drinking water standard based on taste and odor thresholds.

Closing

A PSA has been conducted by CSS at the site, consisting of the collection and analysis of soil and groundwater samples from subsurface borings. Concentrations of TPH-g and related hydrocarbon compounds were found in soil and groundwater in each of the borings. A comparison of the detected concentrations in soil and groundwater to RBSLs indicates that they may necessitate additional investigation. CSS recommends that you forward a copy of this report to the ACDEH.

Should have any questions or desire additional information please do not hesitate to contact the undersigned.

Sincerely,

CSS Environmental Services, Inc.

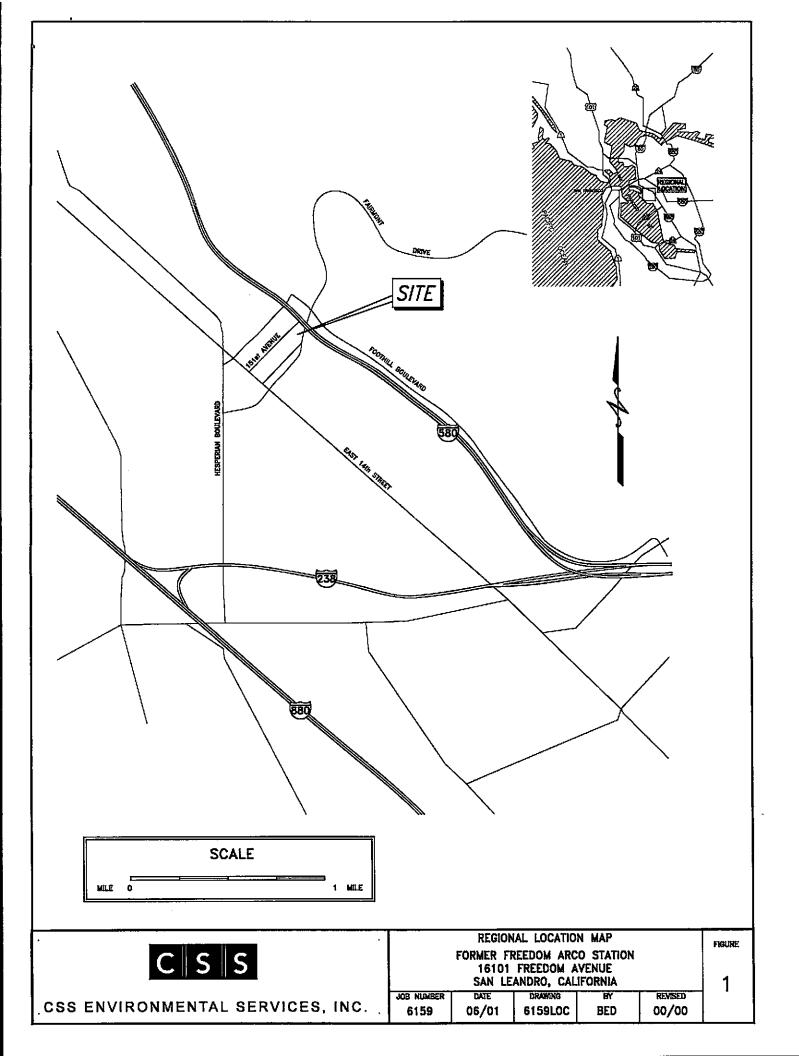
Terry Carter

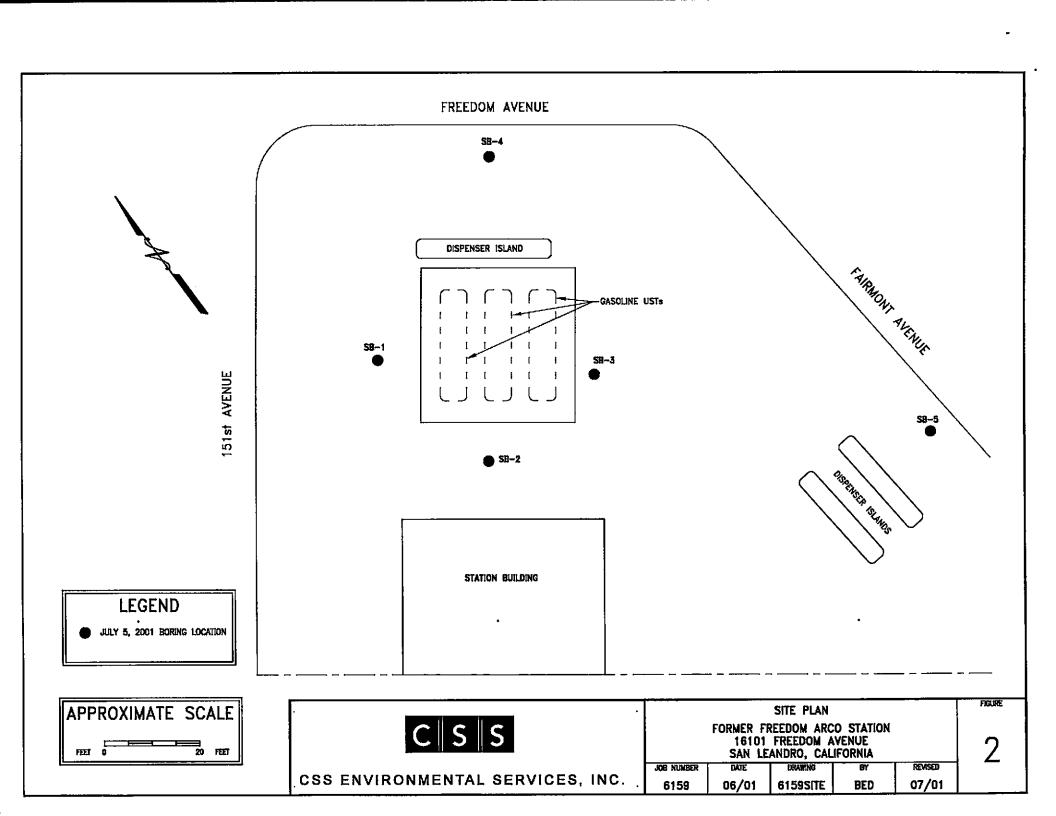
Terry Carter REA Project Manager

Attachments

Aaron N. Stessman, PE REA

Senior Engineer







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Table 1

Summary of Analytical Results from July 5, 2001 Soil Borings Former Freedom ARCO Station 16101 Freedom Avenue San Leandro, California

Sample	Samping	Matrix	TPH-G	В	T	E	X	MTBE		
ID	Date	Matrix	(mg/L, mg/Kg)*	(Water in ug/L, Soil in ug/Kg)						
SB-1	07/05/01	Water	26	5,100	1,100	670	3,300	11,000		
SB-1-25.5'	07/05/01	Soil	470	2,600	16,000	12,000	73,000	<5		
SB-2	07/05/01	Water	83	19,000 [/]	1,800	1,500	4,600	87,000		
SB-2-25.5'	07/05/01	Soil	78	430	780	740	4,100	<5		
SB-3	07/05/01	Water	25	8,900	220	220	750	13,000		
SB-4	07/05/01	Water	25	5,900	1,300	920	3,600	<5		
SB-4-24.51	07/05/01	Soil	90	370	370	710	3,100	<5		
SB-5	07/05/01	Water	19	680	640	800	2,500	6,900		
SB-5-25.51	07/05/01	Soil	210	370	890	2,000	8,900	<5		

LEGEND

5,100 Concentrations in BOLD exceed their respective RBSLs.

TPH-G: Total Petroleum Hydrocarbons as Gasoline

B: Benxene
T: Toulene
E: Ethylbenzene
X: Total Xylenes

MTBE: Methyl tert-butyl ether, positive results as confirmed by EPA 8260B.

ug/L: Micrograms per Liter
mg/L Milligrams per Liter
ug/Kg Micrograms per Kilogram
mg/Kg Milligrams per Kilogram
NA: Analysis not performed

TPH-G Water in mg/L, Soil in mg/Kg



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ATTACHMENT A

Boring Logs



FIELD LOG OF BORING

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5,0					1	9.4				25072 Well
					4		H50	Brown san	d sand	Firm, non-plastic
` <u> </u>		_	-		-	100	H_{c}	1 37 400	C 5-1.700	
					1	31				
S10	 	╁──	1	 	1	13 742	\square			



C S S FIELD LOG OF BORING (continued)

Sheet 2 or 2

									OLIVIOLO, IIVO.
PIDIOVA	Blows	Driven	Recovery	Well Description	Dlagram	Depth		Graphic Log	Project: 6159 No. Boring No. 58-4
0.)					14-+		۔ ق	
							Ц	SC	Green sell clayen sand 250%
				· · · · · ·		15-2	Ц	CL	well greated sand. Soft, non-plastic
					}		Н		
_					ł	163	Н	_	
0.4							Н	<u>۔</u> ف	
2.0	>				ł	i^ *	Н	٠	Gree soudy clan - vern fine fand
					1		Н	Ci_	Gren soundy clan - very fine sand 40ft, non pictic St gasoline orbon
					1	702	H		Z2, 5
				<u>, </u>	1	21-6	X		Sample SB-4-3-5 @ 10:36
9.0	į				1	214		o.	As
440				_]	247		9	
	÷ -]	1 .		من	
1]	25 0	X	Sy	Sample 58-4-24.5 @ 10:33
]	J 0	L	CL	Grey clausy sand a 5007, well
]	26.8	Ļ		graded send. Soli, non-plastic
400	,				1		Ц		
					V	70 0	Ц	<u> </u>	water 12281 @ 15:35
						ļ.,	L		No
					1	354		NR	Recovery.
					-		H		
					4	31-2	-	 -	10:54 - will set screen and see if
					-		F		
					4	3	-		water new yers
1	1	į		<u> </u>	-		-	ļ	15:35 - Collected water sample
			<u> </u>		-	4	\vdash		
				<u> </u>	4		-	{	SB-4 vimini bailer,
		<u> </u>	<u> </u>		4	5	-	1	
			}		4		-	1	
<u></u>					_	6	_		
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					7	_			
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t					1		1	1	
1		-	 	<u> </u>	-	'	┡	1	
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>				1	



ocation	of B	ogr	9 _{3,1} A.e		#N		Project 15101 Freedom Ave San Leandro Texaco, Str. Total Depth:
							Job No.: 6159 Logged By: AS Prej. Mgt.: Tc Edited By:
							Drilling Contractor: Fisch EES Drill Rig Type: Geophybe 6600
			~18 ¹	والمستونية المستونية		D Ve	Drillers Name: Danc Fisch Sampling Methods: Large Bore - Lexan Tube
	· 68		705				Hammer Wt.: Drop: Started, Time: 4:24 Date: 7 5 0
	Cone		ies care	,			Completed, Time: 15:15 Date: 7-15-10-1 Baring Depth (ft.)
Reading Blowe/6-in.	Inches Driven	Sample Recovery	Well Description	Well Diegram	Depth in Feet	Graphic Log	Casing Depth (ft.) Water Depth (ft.) 20.4 Time: 15:24 Date: 7/5/01 Backfilled, Time: 15:40 Date: 7/5/01 By: Fisch Surface Elev.: Datum: Conditions: Warm, CIEAN, breezh
0.0					3 - 4 - 5 - 6 - 7 -	- CL - 80	Black Clay w/ minor mod sand (250) Firm: Mod Plastic Brown sandy clay = 2570 well gradual sand, Firm, mon-plastic
2.5					q a ci	(1) S	French Gendy Clay Very Fine sond a 4073. X Soft, non- plastic. No Odor
50	+-	+-		7	1,1		



S S FIELD LOG OF BORING (continued)

Sheet _____ ar _____

		_		 			_		Project: (; C G No. Boring No. C C
≨		g	ary.		Ę	1 =	l	불.	Project: 6159 No. Boring No. 58-5
PID/OVA	Blows	Driven	Recoven	Well Description	Diagram	ag ag		Graphic	
•		-	Ē		-		Ļ	16	
2.0					1	144	L	J	
					j	l' '	L	k.L	Green clayer sand, ~50% well arnolled sand. Soft, Non-plastic
1 1						1150			graded sand. Soft, Non-plastic
5					}	is 3	Z	5 0	c Sample 53.5-15 @14:45 NO 200R
			1		1	163	Γ]	
0,0					١.	16 8	「	"	
X		1			}		Γ] 。	
						*	Τ] 。	1
D. 0					1		Γ	1 "	Grean well Graded, minor sittlelay
					1	19 %	丅	٧٠	Vactorian sand - well-anded gamely
					1	2	×) ≻∈	Soft, non-plastic. Angular grains
5		,		لتعباب للأسدا	V	20%	T	<u>Ct</u>	- Dense brown clay, mod Pastic SR. Moist
}				@ 15:24	1	0	Г	N2	
00					1	217	۲	†	Sample 53-5-19.5 @ 14:56
2,0	i						Г	9	No Oder
-						, y	ケ	•	
7260				<u> </u>	1		H	3	weil a mokel
35	1				1	740	┰		Brown sandy clay 250% whise sand
5					ļ		⊦	1ci	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
1					ł	750	╀	1	5 25 E
, 5					ł		L	55	
>						264	Þ		Samole 53-5-25.5 @ 15.04 Casoline Odor
414	1				1		\vdash	0	
					ļ	'2	╀	3	
	1				1		L		
53						293	┸		
								le.	Green soundy clay . Dense, mod plasticity
					又	2	Г		50 00000000000000000000000000000000000
		•			• × –	304	1		Green clayer sand, Wet, loose
					1	<u> </u>	1	 S C	well arnaled sand. Significant
<u></u>		-		<u>-</u>	1	3) a	+	 	Green clayer sand. Wet, loose, well graded sand. Significant Fraction of Fires.
2.	7				1		-	1	15:24
<u> </u>			<u> </u>		1	6	-	-	15:24
1		}			Į	1	-	-	Collected unter sample 58-5
ĺ]	,		1	wiminibailer.
					j	'			Regative sediments as w
1	1	1			1			1	other water samples
-		 			1	°	1	1	
	İ	1			1			1	
-	 	├	<u> </u>		1	•	+	1	
İ		1			-		-	4	***************************************
		1	<u> </u>	<u></u>			Ļ	1	
			<u> </u>			1		1	



CSS ENVIRONMENTAL SERVICES, INC.

ATTACHMENT B

Laboratory Analytical Report Chain of Custody Documentation

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

July 13, 2001

Aaron Stessman CSS Environmental Services 95 Belvedere Street, Suite 2 San Rafael, CA 94901

Order: 26161

Date Collected: 7/5/01

Project Name: Freedom Ave Texaco

Date Received: 7/6/01

Project Number: 6159

P.O. Number: 6159

Project Notes:

On July 06, 2001, samples were received under documentented chain of custody. Results for the following analyses are attached:

<u>Matrix</u>

<u>Method</u>

Liquid

Gas/BTEX/MTBE

EPA 8015 MOD. (Purgeable)

EPA 8020

Solid

EPA 8015 MOD. (Purgeable)

EPA 8020

Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2346). If you have any questions regarding procedures or results, please call me at 408-588-0200.

Sincerely,

ichelle L. Anderson Laboratory Director

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

CSS Environmental Services

95 Belvedere Street, Suite 2

San Rafael, CA 94901 Attn: Aaron Stessman Date: 7/13/01 Date Received: 7/6/01

Project Name: Freedom Ave Texaco

Project Number: 6159 P.O. Number: 6159 Sampled By: Client

Certified Analytical Report

Order ID: 26161		Lab Sa	mple ID:	2616	1-001		Client Sam	ple ID: SB-	1	
Sample Time: 9:35	AM	Sam	ple Date:	7/5/0	1			Matrix: Liqu	ıid	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	5100		100	0.5	50	μg/L	N/A	7/9/01	WGC42084	EPA 8020
Toluene	1100		100	0.5	50	μg/L	N/A	7/9/01	WGC42084	EPA 8020
Ethyl Benzene	670		100	0.5	50	μg/L	N/A	7/9/01	WGC42084	EPA 8020
Xylenes, Total	3300		100	0.5	50	μg/L	N/A	7/9/01	WGC42084	EPA 8020
Aylenes, rotar	2300				Surroga		Surr	ogate Recovery	Contr	ol Limits (%)
				aa	a-Trifluoro	to lue ne		91	63	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Marketta but d Ethan	6500		100	5	500	μ g/ L	N/A	7/9/01	WGC42084	EPA 8020
Methyl-t-butyl Ether	0500		100	,	Surroga		Surr	ogate Recovery	Cont	ol Limits (%)
				aa	a-Trifluoro			91	6	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	26000		100	50	5000	μ g /L	N/A	7/9/01	WGC42084	EPA 8015 MOD. (Purgeable)
					Surroge	ate	Suri	ogate Recovery	Cont	rol Limits (%)
				aa	a-Trifluoro			96	6	5 - 135

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

CSS Environmental Services 95 Belvedere Street, Suite 2 San Rafael, CA 94901

Attn: Aaron Stessman

Date: 7/13/01 Date Received: 7/6/01

Project Name: Freedom Ave Texaco

Project Number: 6159 P.O. Number: 6159 Sampled By: Client

Certified Analytical Report

Order ID: 261	.61	Lab Sa	mple ID:	2616	1-002		Client Sam	ple ID: SB-	2	
Sample Time: 12:	20 PM	Sam	ple Date:	7/5/0	1			Matrix: Liqu	uid	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	19000		500	0.5	250	μg/L	N/A	7/9/01	WGC42084	EPA 8020
Toluene	1800		500	0.5	250	μg/L	N/A	7/9/01	WGC42084	EPA 8020
Ethyl Benzene	1500		500	0.5	250	μg/L	N/A	7/9/01	WGC42084	EPA 8020
Xylenes, Total	4600		500	0.5	250	μg/L	N/A	7/9/01	WGC42084	EPA 8020
Aylenes, Total	.000				Surroga	ite	Surr	ogate Recovery	Contr	ol Limits (%)
				aa	a-Trifluoro			92	65	3 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	50000		500	5	2500	μg/L	N/A	7/9/01	WGC42084	EPA 8020
Metnyi-i-butyi Etnei	50000		500	•	Surroga		Surr	ogate Recovery	Contr	ol Limits (%)
				33	a-Trifluoro			92	63	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	83000		500	50	25000	μg/L	N/A	7/9/01	WGC42084	EPA 8015 MOD (Purgeable)
					Surroga	ate	Surr	ogate Recovery	y Conti	rol Limits (%)
				aa	a-Trifluoro			99	6	5 - 135

DE - Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

CSS Environmental Services 95 Belvedere Street, Suite 2 San Rafael, CA 94901

Attn: Aaron Stessman

Date: 7/13/01 Date Received: 7/6/01

Project Name: Freedom Ave Texaco

Project Number: 6159 P.O. Number: 6159 Sampled By: Client

Certified Analytical Report

Order ID: 2616	1	Lab Sa	mple ID:	2616	1-003		Client Sam	ple ID: SB-	3	
Sample Time: 2:14	PM	Sam	ple Date:	7/5/0	1			Matrix: Liq	uid	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	8900		200	0.5	100	μg/L	N/A	7/10/01	WGC42084B	EPA 8020
Toluene	220		200	0.5	100	μg/L	N/A	7/10/01	WGC42084B	EPA 8020
Ethyl Benzene	220		200	0.5	100	μg/L	N/A	7/10/01	WGC42084B	EPA 8020
Xylenes, Total	750		200	0.5	100	μg/L	N/A	7/10/01	WGC42084B	EPA 8020
representation and the second					Surroga		Surr	ogate Recovery	Contr	ol Limits (%)
				aa	a-Trifluoro			95	65	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	8800		200	5	1000	μg/L	N/A	7/10/01	WGC42084B	EPA 8020
					Surroga	ıte	Surr	ogate Recovery	Contr	ol Limits (%)
				aa	a-Trifluoro	toluene		95	63	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	25000		200	50	10000	μg/L	N/A	7/10/01	WGC42084B	EPA 8015 MOD (Purgeable)
					Surroga	ate	Surr	ogate Recovery	, Conti	rol Limits (%)
				aa	a-Trifluoro			100	6	5 - 135

DF = Dilution Factor

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Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

CSS Environmental Services 95 Belvedere Street, Suite 2 San Rafael, CA 94901

Attn: Aaron Stessman

Date: 7/13/01 Date Received: 7/6/01

Project Name: Freedom Ave Texaco

Project Number: 6159 P.O. Number: 6159 Sampled By: Client

Certified Analytical Report

Order ID: 26161		Lab Sai	mple ID:	2616	1-004		Client Sam	ple ID: SB-4	1	
Sample Time: 3:35 Pl	M	Samı	ple Date:	7/5/0	1			Matrix: Liqu	iid	<u></u>
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
D	5900		100	0.5	50	μg/L	N/A	7/9/01	WGC42084	EPA 8020
Benzene Foluene	1300		100	0.5	50	μg/L	N/A	7/9/01	WGC42084	EPA 8020
	920		100	0.5	50	μg/L	N/A	7/9/01	WGC42084	EPA 8020
Ethyl Benzene	3600		100	0.5	50	μg/L	N/A	7/9/01	WGC42084	EPA 8020
Xylenes, Total	5000		100		Surroga		Surr	ogate Recovery	Contr	ol Limits (%)
				aa	a-Trifluoro			92	65	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
te d lata d'Estan	ND		100	5	500	μg/L	N/A	7/9/01	WGC42084	EPA 8020
Methyl-t-butyl Ether	ND		100	-	Surroga		Surr	ogate Recovery	Contr	ol Limits (%)
				aa	a-Trifluoro			92	65	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	25000		100	50	5000	μg/L	N/A	7/9/01	WGC42084	EPA 8015 MOD (Purgeable)
					Surrog	ate	Suri	rogate Recovery	Conti	rol Limits (%)
				a	aa-Trifluoro			94	6:	5 - 135

DE - Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

CSS Environmental Services 95 Belvedere Street, Suite 2 San Rafael, CA 94901

Attn: Aaron Stessman

Date: 7/13/01 Date Received: 7/6/01

Project Name: Freedom Ave Texaco

Project Number: 6159 P.O. Number: 6159 Sampled By: Client

Certified Analytical Report

Order ID: 26161		Lab Sa	mple ID:	2616	1-005		Client Sam	ple ID: SB-:	5	
Sample Time: 3:24 PM	1	Sam	ple Date:	7/5/0	1			Matrix: Liqu	ıid	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	680		50	0.5	25	μ g /L	N/A	7/9/01	WGC42084	EPA 8020
Toluene	640		50	0.5	25	μg/L	N/A	7/9/01	WGC42084	EPA 8020
Ethyl Benzene	800		50	0.5	25	μg/L	N/A	7/9/01	WGC42084	EPA 8020
Xylenes, Total	2500		50	0.5	25	μg/L	N/A	7/9/01	WGC42084	EPA 8020
Ayienes, Total	2500		20		Surroga		Surr	ogate Recovery	Contr	ol Limits (%)
				aa	a-Trifluoro			83	65	3 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	3800		50	5	250	μg/L	N/A	7/9/01	WGC42084	EPA 8020
Methys-t-outyr Ether	3000			-	Surrog		Surr	ogate Recovery	Contr	ol Limits (%)
				aa	a-Trifluoro			83	65	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	19000		50	50	2500	μ g /L	N/A	7/9/01	WGC42084	EPA 8015 MOD. (Purgeable)
					Surrog	ate	Suri	ogate Recovery	Cont	rol Limits (%)
				aa	a-Trifluoro			81	6.	5 - 135

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

CSS Environmental Services 95 Belvedere Street, Suite 2 San Rafael, CA 94901

Attn: Aaron Stessman

Date: 7/13/01 Date Received: 7/6/01

Project Name: Freedom Ave Texaco

Project Number: 6159 P.O. Number: 6159 Sampled By: Client

Certified Analytical Report

Order ID: 2	26161	Lab Sa	mple II	D: 2616	1-006		Client Sam	ple ID: SB-	1-25.5'	
Sample Time: 9	9:14 AM	Sam	ple Dat	e: 7/5/0	1		1	Matrix: Soli	d	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	2.6		1000	0.0005	0.5	mg/Kg	N/A	7/10/01	SGC22085	EPA 8020
Toluene	16		1000	0.0005	0.5	mg/Kg	N/A	7/10/01	SGC22085	EPA 8020
Ethyl Benzene	12		1000	0.0005	0.5	mg/Kg	N/A	7/10/01	SGC22085	EPA 8020
Xylenes, Total	73		1000	0.001	1	mg/Kg	N/A	7/10/01	SGC22085	EPA 8020
Aylenes, rotal	,,			****	Surrog		Surr	ogate Recovery	Contr	el Limits (%)
				aaa	a-Trifluor			95	65	- 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1000	0.005	5	mg/Kg	N/A	7/10/01	SGC22085	EPA 8020
Mentyl-c-outyl Eulet	112				Surrog	ate	Surr	ogate Recovery	Contr	ol Limits (%)
				aa	a-Trifluor			95	6:	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	470		1000	0.050	50	mg/Kg	N/A	7/10/01	SGC22085	EPA 8015 MOD. (Purgeable)
					Surrog	rate	Sur	rogate Recovery	Conti	rol Limits (%)
				aa	a-Trifluor	,		89	6:	5 - 135
Comment:	Sample required metl	nanol extrac	ction due t	o high con	centration	s of target l	hydrocarbons.			

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

CSS Environmental Services 95 Belvedere Street, Suite 2 San Rafael, CA 94901

Attn: Aaron Stessman

Date: 7/13/01 Date Received: 7/6/01

Project Name: Freedom Ave Texaco

Project Number: 6159 P.O. Number: 6159 Sampled By: Client

Certified Analytical Report

Order ID:	26161		Lab Sa	mple II	D: 2616	1-007		Client Sam	ple ID: SB-	2-25.5'	
Sample Time:	12:03 PM		Sam	ple Dat	te: 7/5/0	1		1	Matrix: Soli	d	
Parameter	Resu	ılt	Flag	ÐF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	0.	43		500	0.0005	0.25	mg/Kg	N/A	7/10/01	SGC22085	EPA 8020
Toluene	0.	.78		500	0.0005	0.25	mg/Kg	N/A	7/10/01	SGC22085	EPA 8020
Ethyl Benzene	0.	.74		500	0.0005	0.25	mg/Kg	N/A	7/10/01	SGC22085	EPA 8020
Xylenes, Total		1.1		500	0.001	0.5	mg/Kg	N/A	7/10/01	SGC22085	EPA 8020
/tylenes, rotal						Surrog	ate	Surr	ogate Recovery	Contr	ol Limits (%)
					222	a-Trifluoro	otoluene		93	65	- 135
Parameter	Resu	ılt	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether]	ND		500	0.005	2.5	mg/Kg	N/A	7/10/01	SGC22085	EPA 8020
111001171 1 00171						Surrog		Surr	ogate Recovery	Contr	ol Limits (%)
					99:	a-Trifluor			93	65	5 - 135
Parameter	Resu	ult	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline		78		500	0.050	25	mg/Kg	N/A	7/10/01	SGC22085	EPA 8015 MOD (Purgeable)
						Surrog	ate	Surr	ogate Recovery	Contr	ol Limits (%)
					aa	a-Trifluor	•		98	65	5 - 135
Comment:	Sample required r	netha	noi extract	tion due t				ydrocarbons.	98	0.	, - 133

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelled Anderson, Laboratory Director

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

CSS Environmental Services 95 Belvedere Street, Suite 2

San Rafael, CA 94901 Attn: Aaron Stessman Date: 7/13/01 Date Received: 7/6/01

Project Name: Freedom Ave Texaco

Project Number: 6159 P.O. Number: 6159 Sampled By: Client

Certified Analytical Report

Order ID:	26161	Lab Sa	ample I	D: 2616	1-008		Client Sam	ple ID: SB-	4-24.5'	
Sample Time:	10:38 AM	San	nple Da	te: 7/5/0	1			Matrix: Soli	d	
Parameter	Resul	t Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	0.3	7	50	0.0005	0.025	mg/Kg	N/A	7/10/01	SGC22085	EPA 8020
Toluene	0.3	7	50	0.0005	0.025	mg/Kg	N/A	7/10/01	SGC22085	EPA 8020
Ethyl Benzene	0.7		50	0.0005	0.025	mg/Kg	N/A	7/10/01	SGC22085	EPA 8020
Xylenes, Total	3.		50	0.001	0.05	mg/Kg	N/A	7/10/01	SGC22085	EPA 8020
-Grones, roter					Surrog	-	Surr	ogate Recovery	Contr	ol Limits (%)
				aa	a-Trifluoro	otoluene		7 5	65	5 - 135
Parameter	Resul	t Flag	ÐF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	N	D	50	0.005	0.25	mg/Kg	N/A	7/10/01	SGC22085	EPA 8020
wicknyi-t-buryt Edilor		2		0.000	Surrog		Surr	ogate Recovery	Contr	ol Limits (%)
				aa	a-Trifluor			75	65	5 - 135
Parameter	Resu	t Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ç	0	50	0.050	2.5	mg/Kg	N/A	7/10/01	SGC22085	EPA 8015 MOD (Purgeable)
					Surrog	ate	Surr	ogate Recovery	Conti	rol Limits (%)
				aa	a-Trifluor	otoluene		68	6:	5 - 135

Comment:

Sample required methanol extraction due to high concentrations of target hydrocarbons.

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

CSS Environmental Services 95 Belvedere Street, Suite 2 San Rafael, CA 94901

Attn: Aaron Stessman

Date: 7/13/01 Date Received: 7/6/01

Project Name: Freedom Ave Texaco

Project Number: 6159 P.O. Number: 6159 Sampled By: Client

Certified Analytical Report

Order ID: 2616	1	Lab Sa	mple II	D: 2616	1-009		Client Sam	ple ID: SB	-5-25.5'	
Sample Time: 3:04	PM	Sam	ple Dat	t e: 7/5/0	1			Matrix: Sol	id	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	0.37		500	0.0005	0.25	mg/Kg	N/A	7/11/01	SGC22085	EPA 8020
Toluene	0.89		500	0.0005	0.25	mg/Kg	N/A	7/11/01	SGC22085	EPA 8020
Ethyl Benzene	2.0		500	0.0005	0.25	mg/Kg	N/A	7/11/01	SGC22085	EPA 8020
Xylenes, Total	8.9		500	0.001	0.5	mg/Kg	N/A	7/11/01	SGC22085	EPA 8020
,					Surrog	ate	Surr	ogate Recovery	Contr	ol Limits (%)
				aaa	ı-Trifluoro	otoluene		89	63	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch JD	Method
Methyl-t-butyl Ether	ND		500	0.005	2.5	mg/Kg	N/A	7/11/01	SGC22085	EPA 8020
Wielly's Codey's Dailey					Surrog	ate	Surr	ogate Recovery	y Conti	rol Limits (%)
				aaa	a-Trifluor			89	6:	5 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	210		500	0.050	25	mg/Kg	N/A	7/11/01	SGC22085	EPA 8015 MOI (Purgeable)
					Surrog	ate	Surr	ogate Recover	y Contr	rol Limits (%)
				aa	a-Trifluor			87	6.	5 - 135

DF = Dilution Factor

Comment:

ND = Not Detected

Sample required methanol extraction due to high concentrations of target hydrocarbons.

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

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Quality Control Results Summary

QC Batch #:

WGC42084

Matrix: Liquid

Units:

μg/L

Date Analyzed:

7/9/01

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Test: TPH a	s Gasoline								***		
TPH as Gasoline	EPA 8015 I	M ND		561		474.08	LCS	84.5		40	65.0 - 135.0
	Surrogate		Surrog	ate Recove	ry	Control l	Limits (%)				
	aaa-Trifluorotoli	uene		103		65 -	135				
Test: BTEX	-			•							
Benzene	EPA 8020	ND		6.2		6.219	LCS	100.3			65.0 - 135.0
Ethyl Benzene	EPA 8020	ND		7.8		7.220	LCS	92.6			65.0 - 135.0
Toluene	EPA 8020	ND		35.8		34.349	LCS	95.9			65.0 - 135.0
Xylenes, total	EPA 8020	ND		43		38.204	LCS	88.8		4.6	65.0 - 135.0
	Surrogate		Surrog	ate Recove	ry	Control l	Limits (%)				
	aaa-Trifluorotol	uene		102		65 -	135				
Test: MTBE	E by EPA 802	0				3170					
Methyl-t-butyl Ether	-	ND		52.8		46.974	LCS	89.0			65.0 - 135.0
	Surrogate		Surrog	ate Recove	ry	Control 1	Limits (%)				
	aaa-Trifluorotol	uene		102		65 -	135				
Test: TPH a	s Gasoline				•	<u>.</u>					
TPH as Gasoline	EPA: 8015 1	M ND		561		470.77	LCSD	83.9	0.70	25.00	65.0 - 135.0
	Surrogate		Surrog	ate Recove	ry	Control l	Limits (%)				:
	aaa-Trifluorotol	uene		101		65 -	135				
Test: BTEX											
Benzene	EPA 8020	ND		6.2		6.239	LCSD	100.6	0.32	25.00	65.0 - 135.0
Ethyl Benzene	EPA 8020	ND		7.8		7.089	LCSD	90.9	1.83	25.00	65.0 - 135.0
Toluene	EPA 8020	ND		35.8		34.453	LCSD	96.2	0.30	25.00	65.0 - 135.0
Xylenes, total	EPA 8020	ND		43		37.737	LCSD	87.8	1.23	25.00	65.0 - 135.0
	Surrogate		Surrog	ate Recove	ry	Control :	Limits (%)				
	aaa-Trifluorotol	цепе		100	4	65 -	135				
	E by EPA 802	.0									/CO :357
Methyl-t-butyl Ethe	т EPA 8020	ND		52.8		45.688	LCSD	86.5	2.78	25.00	65.0 - 135.0
	Surrogate		Surrog	gate Recove	гу		Limits (%)				
	aaa-Trifluorotol	uene		100		65 -	135				

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Quality Control Results Summary

QC Batch #:

WGC42084B

Matrix: Lic

Liquid

Units:

 $\mu g/L$

Date Analyzed:

7/10/01

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Test: TPH	as Gasoline							_			
TPH as Gasoline	EPA 8015 I	M ND		561		472.58	LCS	84.2			65.0 - 135.0
	Surrogate		Surrog	ate Recove	ry		Limits (%)				:
	aaa-Trifluorotol	uene		101		65 -	135			·	
Test: BTE	X										
Benzene	EPA 8020	ND		6.2		6.103	LCS	98.4			65.0 - 135.0
Ethyl Benzene	EPA 8020	ND		7.8		7.054	LCS	90.4			65.0 - 135.0
Toluene	EPA 8020	ND		35.8		33.489	LCS	93.5			65.0 - 135.0
Xylenes, total	EPA 8020	ND		43		37.712	LCS	87.7			65.0 - 135.0
	Surrogate		Surrog	ate Recove	ry	Control 1	Limits (%)				
	aaa-Trifluorotol	uene		99		65 -	135				
Test: MTB	E by EPA 802	0									
Methyl-t-butyl Eth		ND		52.8		49.477	LCS	93.7			65.0 - 135.0
	Surrogate		Surrog	ate Recove	гу	Control	Limits (%)				
	aaa-Trifluorotol	uene		99		65 -	135			A. v	
Test: TPH	as Gasoline	_									
TPH as Gasoline	EPA 8015	M ND		561		484.27	LCSD	86.3	2.44	25.00	65.0 - 135.0
	Surrogate		Surrog	ate Recove	ry	Control	Limits (%)				
	aaa-Trifluorotol	иеле		99		65 -	135				
Test: BTE	X			*							
Benzene	EPA 8020	ND		6.2		6.126	LCSD	98.8	0.38	25.00	65.0 - 135.0
Ethyl Benzene	EPA 8020	ND		7.8		7.215	LCSD	92.5	2.26	25.00	65.0 - 135.0
Toluene	EPA 8020	ND		35.8		34.735	LCSD	97.0	3.65	25.00	65.0 - 135.0
Xylenes, total	EPA 8020	ND		43		38.359	LCSD	89.2	1.70	25.00	65.0 - 135.0
	Surrogate		Surrog	ate Recove	ry	Control	Limits (%)				
: 	aaa-Trifluorotol	uene		101		65 -	135				
Test: MTB	E by EPA 802	20				/_ U		<u> </u>	· · · · · · · · · · · · · · · · · · ·		
Methyl-t-butyl Eth		ND		52.8		45.809	LCSD	86.8	7.70	25.00	65.0 - 135.0
•	Surrogate		Surrog	gate Recove	ery	Control	Limits (%)				
	aaa-Trifluorotol	uene		101		65 -	135				

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Quality Control Results Summary

QC Batch #:

SGC22085

Matrix:

Solid

Units:

mg/Kg

Date Analyzed:

7/10/01

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
	Gasoline	-		·····		0.460	1.00	83.4			65.0 - 135.0
TPH as Gasoline	EPA 8015 N	M ND		0.561		0.468	LCS	83.4 			
	Surrogate		Surrog	ate Recove	ry		imits (%)				
2	naa-Trifluorotoli	Jene		97		65 -	135	_::			
Test: BTEX										-	650 1520
Benzene	EPA 8020	ND		0.0062		0.007	LCS	112.9			55.0 - 153.0
Ethyl Benzene	EPA 8020	ND		0.0078		0.007	LCS	89.7			58.4 - 116.0
Toluene	EPA 8020	ND		0.0358		0.033	LCS	92.2			56.1 - 127.0
Xylenes, total	EPA 8020	ND		0.043		0.037	LCS	86.0			64.9 - 105.0
	Surrogate	-	Surrog	ate Recove	гу	Control l	Limits (%)				
:	aaa-Trifluorotol	иепе		93		65 -	135				
Test: MTBE Methyl-t-butyl Ether	by EPA 802 EPA 8020	0 ND		0.062		0.050	LCS	80.6			45.0 - 119.0
	Surrogate		Surrog	gate Recove	ery		Limits (%)				
	aaa-Trifluorotol	uene		93		65 -	135				
Test: TPH as	Gasoline EPA 8015	M ND		0.561		0.464	LCSD	82.7	0.86	30.00	65.0 - 135.0
	Surrogate		Surrog	gate Recove	ery	Control :	Limits (%)				į
	aaa-Trifluorotol	uene		95		65 -	135				
Test: BTEX						0.007	LCSD	112.9	0.00	30.00	55.0 - 153.0
Benzene	EPA 8020	ND		0.0062		0.007	LCSD	89.7	0.00	30.00	58.4 - 116.0
Ethyl Benzene	EPA 8020	ND		0.0078		0.007		95.0	2.99	30.00	56.1 - 127.0
Toluene	EPA 8020	ND		0.0358		0.034	LCSD		2.67	30.00	64.9 - 105.0
Xylenes, total	EPA 8020	ND		0.043		0.038	LCSD	88.4	2.07	30.00	
	Surrogate		Surre	gate Recove	ery		Limits (%)				
· <u>L</u>	aaa-Trifluorotol	цепе		94		65 -	135				
Test: MTBE Methyl-t-butyl Ether	by EPA 802 EPA 8020	20 ND		0.062		0.052	LCSD	83.9	3.92	30.00	45.0 - 119.0
incuryi Coucy Dinor	Surrogate		Surro	gate Recov	ery	Control	Limits (%)				
	aaa-Trifluoroto	1	~	94	•	65	- 135				

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Quality Control Results Summary

QC Batch #:

WMS31077

Matrix:

Liquid

Units:

μg/L

Date Analyzed:

7/11/01

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Test: EPA 8	260B										CEO 1350
1,1-Dichloroethene	EPA 8260B	ND		20		20.3	LCS	101.5			65.0 - 135.0
Benzene	EPA 8260B	ND		20		22.6	LCS	113.0			65.0 - 135.0
Chlorobenzene	EPA 8260B	ND		20		21.6	LCS	108.0			65.0 - 135.0
Methyl-t-butyl Ethe	r EPA 8260B	ND		20		19.9	LCS	99.5			56.0 - 135.0
Toluene	EPA 8260B	ND		20		22.3	LCS	111.5			65.0 - 135.0
Trichloroethene	EPA 8260B	ND		20		26.4	LCS	132.0			65.0 - 135.0
	Surrogate		Surrog	ate Recove	ry	Control l	Limits (%)				
1	4-Bromofluorobe	nzene	_	89		65 -	135				!
	Dibromofluorom	ethane		107		57 -	139				:
	Toluene-d8			123		65	135				
Test: EPA 8	260B				·						
1,1-Dichloroethene	EPA 8260B	ND		20		19.3	LCSD	96.5	5.05	25.00	65.0 - 135.0
Benzene	EPA 8260B	ND		20		21.2	LCSD	106.0	6.39	25.00	65.0 - 135.0
Chlorobenzene	EPA 8260B	ND		20		19.7	LCSD	98.5	9.20	25.00	65.0 - 135.0
Methyl-t-butyl Ethe	r EPA 8260B	ND		20		21.4	LCSD	107.0	7.26	25.00	56.0 - 135.0
Toluene	EPA 8260B	ND		20		20.9	LCSD	104.5	6.48	25.00	65.0 - 135.0
Trichloroethene	EPA 8260B			20		25.3	LCSD	126.5	4.26	25.00	65.0 - 135.0
	Surrogate		Surro	gate Recove	ery	Control	Limits (%)				
	4-Bromofluorob	enzene		86	-	65 -	135				
!	Dibromofluoron	ethane		106		57 -	139				
	Toluene-d8			123		65 ·	135				

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3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

July 19, 2001

Aaron Stessman CSS Environmental Services 95 Belvedere Street, Suite 2 San Rafael, CA 94901

Order: 26161

Date Collected: 7/5/01

Project Name: Freedom Ave Texaco

Date Received: 7/6/01

Project Number: 6159

P.O. Number: 6159

Project Notes:

On July 06, 2001, samples were received under documentented chain of custody. Results for the following analyses are attached:

<u>Matrix</u>

Test

Method

Liquid

MTBE by EPA 8260B

EPA 8260B

Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2346). If you have any questions regarding procedures or results, please call me at 408-588-0200.

Sincerely,

Michelle L. Anderson Laboratory Director

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

CSS Environmental Services 95 Belvedere Street, Suite 2 San Rafael, CA 94901

Attn: Aaron Stessman

Date: 7/19/01 Date Received: 7/6/01

Project Name: Freedom Ave Texaco

Project Number: 6159 P.O. Number: 6159 Sampled By: Client

Certified Analytical Report

Client Sample ID: SB-1 Lab Sample ID: 26161-001 **Order ID: 26161** Matrix: Liquid Sample Date: 7/5/01 Sample Time: 9:35 AM Method QC Batch ID **Analysis Date PQL** DLR Units DF Flag Result Parameter **EPA 8260B** WMS31077 7/11/01 μg/L 500 11000 100 5 Methyl-t-butyl Ether Control Limits (%) Surrogate Recovery Surrogate 65 - 135 4-Bromofluorobenzene 83 57 - 139 Dibromofluoromethane 107 65 - 135 126 Toluene-d8

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director Environmental Analysis Since 1983

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CSS Environmental Services 95 Belvedere Street, Suite 2 San Rafael, CA 94901

Attn: Aaron Stessman

Date Received: 7/6/01
Project Name: Freedo

Project Name: Freedom Ave Texaco

Date: 7/19/01

Project Number: 6159 P.O. Number: 6159 Sampled By: Client

Certified Analytical Report

Client Sample ID: SB-2 Lab Sample ID: 26161-002 Order ID: 26161 Matrix: Liquid Sample Date: 7/5/01 Sample Time: 12:20 PM Method **Analysis Date** QC Batch ID PQL DLR Units Result Flag DF Parameter WMS31077 EPA 8260B 7/11/01 87000 2000 10000 $\mu g/L$ Methyl-t-butyl Ether Control Limits (%) Surrogate Recovery Surrogate 65 - 135 81 4-Bromofluorobenzene 57 - 139 106 Dibromofluoromethane 65 - 135 126 Toluene-d8

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

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3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

CSS Environmental Services 95 Belvedere Street, Suite 2 San Rafael, CA 94901

Project Name: Freedom Ave Texaco Attn: Aaron Stessman

Project Number: 6159 P.O. Number: 6159 Sampled By: Client

Date Received: 7/6/01

Date: 7/19/01

Certified Analytical Report

Client Sample ID: SB-3 Lab Sample ID: 26161-003 **Order ID: 26161** Matrix: Liquid Sample Time: 2:14 PM Sample Date: 7/5/01 QC Batch ID Method Analysis Date DF **PQL** DLR Units Result Flag Parameter EPA 8260B 1000 $\mu \text{g}/L$ 7/11/01 WMS31077 200 13000 5 Methyl-t-butyl Ether Surrogate Recovery Control Limits (%) Surrogate 65 - 135 4-Bromofluorobenzene 86 57 - 139 106 Dibromofluoromethane 65 - 135 Toluene-d8 124

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director Environmental Analysis Since 1983

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

CSS Environmental Services 95 Belvedere Street, Suite 2 San Rafael, CA 94901

Attn: Aaron Stessman

Date: 7/19/01 Date Received: 7/6/01

Project Name: Freedom Ave Texaco

Project Number: 6159 P.O. Number: 6159 Sampled By: Client

Certified Analytical Report

Order ID: 26161		Lab Sam	ple ID:	26161-0	005	Clie	SB-5								
Sample Time: 3:24 P	M	Sampl	e Date:	7/5/01			Matrix: Liquid								
Parameter Methyl-t-butyl Ether	Result 6900	Flag	DF 50	PQL 5	DLR 250	Units µg/L	Analysis Date 7/11/01	QC Batch ID WMS31077	Method EPA 8260B						
	Surrogat	e		Surroga	te Recover	у	Control Limits	(%)							
	4-Bromo	fluorobenzen	e		85		65 - 135								
	Dibromo	fluoromethan	ie		105		57 - 139								
	Toluene-	18			127		65 - 135								

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L'Anderson, Laboratory Director Environmental Analysis Since 1983

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