

Health & Safety Training • Geo/Environmental Personnel • Engineering Geology Consultants • Environmental Management Consultants

May 22, 1997

Mr. John Sutfin Superior Underground Tank Service 430 Kevin Court San Ramon, California 94583

Subject: Tank Removal and Remedial Excavation Summary Report for

Redwood Gasoline Station, 800 San Pablo Avenue, Albany, CA

Dear Mr. Sutfin:

Geo Plexus, Incorporated is pleased to present this Summary Report regarding the removal of five (5) underground storage tanks from the subject property and to document the site conditions following excavation and off-site disposal of the petroleum contaminated soils.

One copy of this report should be submitted to Ms. Julliet Shin with Alameda County Department of Environmental Health to review the findings and determine what mandatory soil and/or ground water investigations and/or additional remediation is required to achieve site closure.

It has been a pleasure to be of service to you on this project. Should you have questions regarding the attached report, please contact our office.

Respectfully submitted,

Geo Plexus, Incorporated

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David C. Glick, CEG 1338, HQ 32 68

Director, Geologic and Environmental Services

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TANK REMOVAL AND REMEDIAL EXCAVATION SUMMARY REPORT FOR REDWOOD GASOLINE STATION 800 SAN PABLO AVENUE ALBANY, CA

Prepared for:

Mr. John Sutfin Superior Underground Tank Service 430 Kevin Court San Ramon, CA

and

Mr. Mohinder Sikand 800 San Pablo Avenue Albany, CA

May 22, 1997

TANK REMOVAL AND REMEDIAL EXCAVATION SUMMARY REPORT FOR REDWOOD GASOLINE STATION 800 SAN PABLO AVENUE ALBANY, CA

INTRODUCTION

The project site consists of Redwood Gasoline Station located at 800 San Pablo Avenue, in the City of Albany, Alameda County, California as indicated on Figure 1. The site has been an active service station and recently upgraded the tanks for regulatory compliance and operational use. The underground tanks reportedly consisted of three gasoline, one diesel fuel tank, and one unknown product tank located as indicated on Figure 2. The tanks were identified as:

Tank 1 - 10,000 gallon gasoline tank

Tank 2 - 10,000 gallon gasoline tank

Tank 3 - 6,000 gallon gasoline tank ←

Tank 4 - 2,000 gallon diesel tank

Tank 5 - 1,000 gallon unknown product tank

Based on drawlings, I question these tank designations - the large dauble-walled tank was left in place to undergo a tank top modification + continue

functioning along with the newsystem. My recollection is

this would have been tank 3

TANKS 1-4 REMOVAL ACTIVITIES

It is understood that a tank removal permit was filed with Alameda County Department of Environmental Health for general compliance with County/State policies for tank closures. Tanks 1-4 were excavated and removed from the project site on March 5, 1997 by Superior Underground Tank Services (SUTS) personnel under the oversight of personnel from the Alameda County Department of Environmental Health.

The soil overlying and adjacent to the tanks was removed by a backhoe/excavator to expose the tanks and to facilitate removal of the piping. The riser assemblies and product lines extending from the tanks to the dispenser pumps and the vent lines were removed. The dispensing pumps were disconnected from the product lines prior to proceeding with the tank excavation activities.

The tanks were inerted by placing dry-ice into each tank and the tanks were allowed to vent to the atmosphere until the oxygen content was determined to be below 16% and the Lower Explosive Limit (LEL) was determined to be below 10% of the LEL as measured by a Gastech Tank Tester device and with a Gastech Combustible Gas/LEL/Oxygen Meter. The tanks were transported and disposed of by Erickson, Inc. under contract arrangements with SUTS.

The tanks did not exhibit visual evidence of holes; however, Tank 4 did exhibit some corrosion and pitting at the ends of the tank.

TANK REMOVAL SOIL SAMPLING

Samples of the native soil were obtained from beneath each tank and dispensing pump and along the pipe line. The samples were collected by Geo Plexus, Incorporated personnel under direct supervision of a Certified Engineering Geologist. The samples were obtained though the use of the excavation at the locations directed by Ms. Julliet Shin with the Alameda County Department of Environmental Health (see Figure 3).

The soil samples were obtained from the backhoe bucket by advancing pre-cleaned 2 inch I.D. brass liners into the undisturbed soil contained in the backhoe bucket. The soil samples were immediately sealed in the liner using aluminum foil and plastic caps and properly labeled including: the date, time, sample location, and project number. The samples were placed immediately into a chilled cooler and maintained at 4° C for transport to the laboratory under chain-of-custody documentation.

Water seepage was observed entering the excavation following removal of Tanks 1-3. A ground water collection point was created in the bottom of the excavation (see Figure 3) by excavating additional soil. A "grab" sample of the water encountered in the excavation was obtained by lowering a sterile teflon bailer into the water column and the water contained in the bailer was decanted into sterile vials/jars with Teflon lined screw caps. The samples were immediately sealed in the vials and properly labeled including: the date, time, sample location, project number, and indication of any preservatives added to the sample. The samples were placed immediately into a chilled cooler and maintained at 4° C for transport to the laboratory under chain-of-custody documentation.

REMEDIAL EXCAVATION ACTIVITIES

The excavations for the tanks extended to depths of 8-9 feet below the ground surface. The soil removed from the excavations above and adjacent to the storage tanks and dispensers exhibited some petroleum odors and some soil discoloration/staining (gray-green color) was observed. These soils were stockpiled on-site for characterization and disposal.

Subsequent to removal of Tanks 1-4, Alameda County Department of Environmental Health directed excavation of the soils exhibiting "free-product" and to re-sample the sidewalls and base of the excavation. The excavation for Tanks 1-3 and the excavation for Tank 4 were enlarged several feet in lateral directions and excavated to a depth of 11-feet below original grade. To protect the existing structure, sheet piling was installed along the western edge of the excavation (which also limited the extent of contaminated soil removal).

Additional soil samples were obtained from the perimeter of the excavations at locations indicated on Figure 4 in accordance with procedures/protocols previously described. Following the limited remedial excavation action for Tanks 1-4 and purging the excavation of the retained ground water an additional water samples was collected.

TANK 5 REMOVAL ACTIVITIES

During the excavation activities, an additional underground storage tank was detected located north of Tanks 1 and 2 and west of Tank 4 (see Figure 2). Tank 5 was excavated and removed from the project site on March 31, 1997 by SUTS personnel under the oversight of personnel from the Alameda County Department of Environmental Health.

The remaining soil overlying and adjacent to the tank was removed by a backhoe/excavator to expose the tank. The tank was inerted by placing dry-ice into the tank which was allowed to vent to the atmosphere until the oxygen content was determined to be below 16% and the Lower Explosive Limit (LEL) was determined to be below 10% of the LEL as measured by a Gastech Tank Tester device and with a Gastech Combustible Gas/LEL/Oxygen Meter. The tanks were transported and disposed of by Erickson, Inc. under contract arrangements with SUTS.

Soil samples were obtained from beneath Tank 5 at locations indicated on Figure 5 following procedures/protocols previously described.

One additional ground water grab sample was obtained from the excavated area for Tanks 1-4 from a temporary well point installed in the backfill gravel. The temporary well has since been removed from the backfill and the tank installation has been completed.

ANALYTICAL TESTING

The soil and water samples were submitted to McCampbell Analytical, a State of California, Department of Health Services certified testing laboratory and were tested in accordance with the State of California, Regional Water Quality Control Board Guidelines and Alameda County protocols. The testing for the tank samples included:

Total Petroleum Hydrocarbons as gasoline Total Petroleum Hydrocarbons as diesel Volatile Aromatic Compounds (BTEX and MTBE) Polynuclear Aromatic Hydrocarbons Total Lead

The results of the analytical testing are attached as Appendix A. The results of the analytical testing for gasoline, diesel, and volatile aromatic compounds are summarized on Tables 1 and 2. Polynuclear Aromatic Hydrocarbons were not detected and the concentrations of Lead detected were 10 ppm or lower.

<u>TABLE 1</u>

<u>SUMMARY OF SOIL ANALYTICAL TEST DATA</u>
(concentrations in parts per million)

	(F	Ethyl-	Total	
<u>Sample</u>	TPHgas/diesel	Benzene	<u>Toluene</u>	Benzene	<u>Xylenes</u>	MTBE
Removal of Ta	nks 1-4 March 5,	1997	Margage garder for his files	1000	2 #E UNST 11 # M	
T1-S1, 13'	380/	0.66	2.5	10	45	ND<0.8
T1-S2, 12.5	160/	0.18	1.4	2.6	7.8	0,53
T2-S1, 13'	1100/	3.3	37	24	110	5.0
T2-S2, 12.5'	490/	1.2	1.8	10	35	ND<2.7
T3-S1, 13'	240/	1.1	7.6	5.9	31	5.4
T3-S2, 12.5'	97/	1.4	1.0	2.5	9.4	30
T4-S1, 11'	/300	0.14	0.16	0.45	0.39	1.0
T4-S2, 11'	/550	0.046	0.12	0.42	0.35	0.52
D1-S1, 4'	/2.6	4.5	0.15	0.81	2.3	10
D2-S1, 4'	530/	11	32	9.1	43	6.7
PL1-S1, 4'	8.5/ND	1.4	0.63	0.36	0.90	5.6
Limited Remed	dial Excavation M	larch 22, 199	7			
OX1-S1, 13'	370/370	3.1	13	7.3	40	3.1
OX1-S2, 15'	2500/820	18	42	52	280	12
OX1-S3, 13'	1100/240	7.2	63	29	150	41
OX1-S4, 111	260/50	1.9	15	5.9	32	16
OX1-S5, 12'	470/98	3.6	20	9.8 .	54	4.9
OX1-S6, 12'	330/32	6.1	24	7.5	39	11
OX2-S1, 13'	11/160	0.017	0.022	0.035	0.042	0.42
OX2-S2, 10'	79/84	0.19	0.14	1.4	3.4	ND<0.18
OX2-S3, 11'	69/400	0.036	0.053	0.052	0.22	ND<0.12
OX2-S4, 9'	93/190	0.18	ND	1.2	0.56	0.51
OX2-S5, 10 ^t	20/16	0.009	0.032	0.055	0.077	0.25
OX3-S1, 14'	890/300	9.4	43	ND	110	3.9
OX3-S2, 14'	3800/120	25	230	20	500	14
OX3-S3, 14'	930/520	5.8	44	21	120	4.3
OX3-S4, 12'	75/91	0.091	0.13	1.0	1.4	0.77
OX3-S5, 14'	150/31	1.2	5.8	2.9 .	16	0.88
Removal of Ta	nk 5 March 5, 19	97				
T5-S, 8.5'	470/	7.9	1.4	12	27	ND<1
T5-N, 8.5'	480/	5.0	1.1	13	29	ND<0.2
D2-S2, 3'	250/90	3.6	7.0	6.6	40	3.7
D2-S3, 3'	11/ND	3.2	0.16	0.37	0.30	1.6

Notes: TPH reported as gasoline/diesel fuel.

N.D. indicates that concentrations below detection limit.

---- indicates constituent not analyzed.

TABLE 2

SUMMARY OF RECHARGED WATER ANALYTICAL TEST DATA

(concentrations in parts per billion)

				Ethyl-	Total	
<u>Sample</u>	TPHgas/diesel	Benzene	<u>Toluene</u>	Benzene	<u>Xylenes</u>	<u>MTBE</u>
Removal of T	Tanks 1-4 March 5,	1997				
TX1-WS1,2	120,000/220,000	11,000	13,000	3,800	21,000	72,000
Limited Rem	edial Excavation M	arch 22, 199	7			
OX3-WS1,2	23,000/220,000	5,800	1,100	ND	3,700	18,000
Post Tank In	stall March 5, 1997					
T1-Grab	820/550	16	7.3	ND	150	5,000
TX1-WS1,2 Limited Rem OX3-WS1,2 Post Tank In	120,000/220,000 nedial Excavation M 23,000/220,000 stall March 5, 1997	11,000 arch 22, 199 5,800	7 1,100	ND	3,700	18,000

Notes: TPH reported as gasoline/diesel fuel.

N.D. indicates that concentrations below detection limit.

TANK TRANSPORT AND DISPOSAL

The tanks were removed and transported from the property under hazardous waste manifest documentation by Erickson, Inc. (a licensed hazardous material transporter) for destruction at their treatment, storage, and disposal facility. The certificates of destruction for the tanks are included in Appendix B.

FINDINGS

Low to moderate concentrations of Total Petroleum Hydrocarbons as gasoline and Total Petroleum Hydrocarbons as diesel remain in the soil and the ground water following the tank removal and excavation action. High concentrations of Benzene and MTBE were detected in the initial soil and the ground water "grab" samples; however the subsequent samples exhibited significantly reduced concentrations.

LIMITATIONS

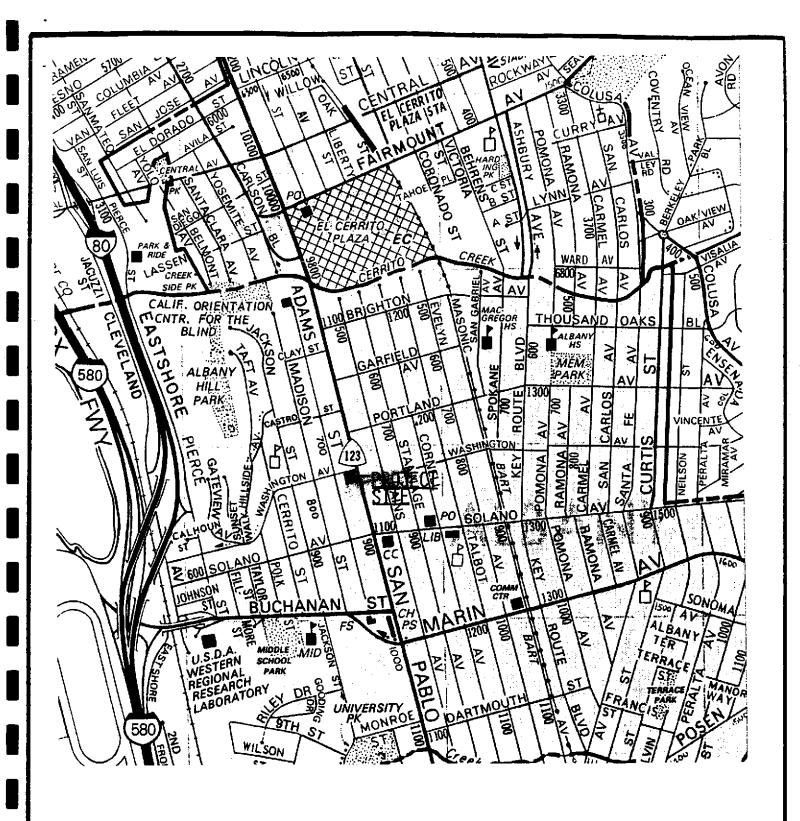
We have only observed a small portion of the pertinent soil conditions present at the site. Subsurface conditions across the site have been extrapolated from information obtained from review of existing documents and from the field investigation. The conclusions made herein are based on the assumption that soil conditions do not deviate appreciably from those described in the reports and observed during the field investigation.

Geo Plexus, Incorporated provides consulting services in the fields of Geology and Engineering Geology performed in accordance with presently accepted professional practices. Professional judgments presented herein are based partly on information obtained from review of published documents, partly on evaluations of the technical information gathered, and partly on general experience in the fields of geology and engineering geology.

No attempt was made to verify the accuracy of the published information prepared by others used in preparation of this assessment report.

If you have questions regarding the findings, conclusions, or recommendations contained in this report, please contact us. We appreciate the opportunity to serve you.

Geo Plexus, Incorporated



Source: Thomas Brothers Maps

RED	WOOD GAS	STATION	1
DAT€ 3/20/97	SCALE, n/a	CRAV	ďcg
	LOCATION	PLAN	
		Figure	1

Geo Plexus, Inc.

DISPENSING **ISLANDS** TANK 3 EXISTING BLDG. SIDEWALK

800 SAN PABLO AVE.

Geo Plexus. Inc.

NOTE: Dimensions are approximate by

taping from property corners.

gcg tean v ev 1"=10'

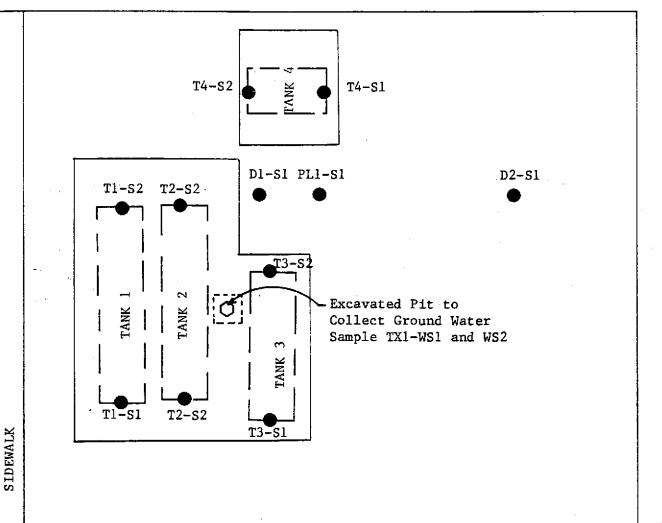
Figure

2

SAN PABLO AVE.

REDWOOD GAS STATION SITE PLAN





Samples T1-S1,2; T2-S1,2; T3-S1,2; T4-S1,2 and D1-S1; D2-S1, PL1-S1 and TX1-WS1,2 collected 3/5/97

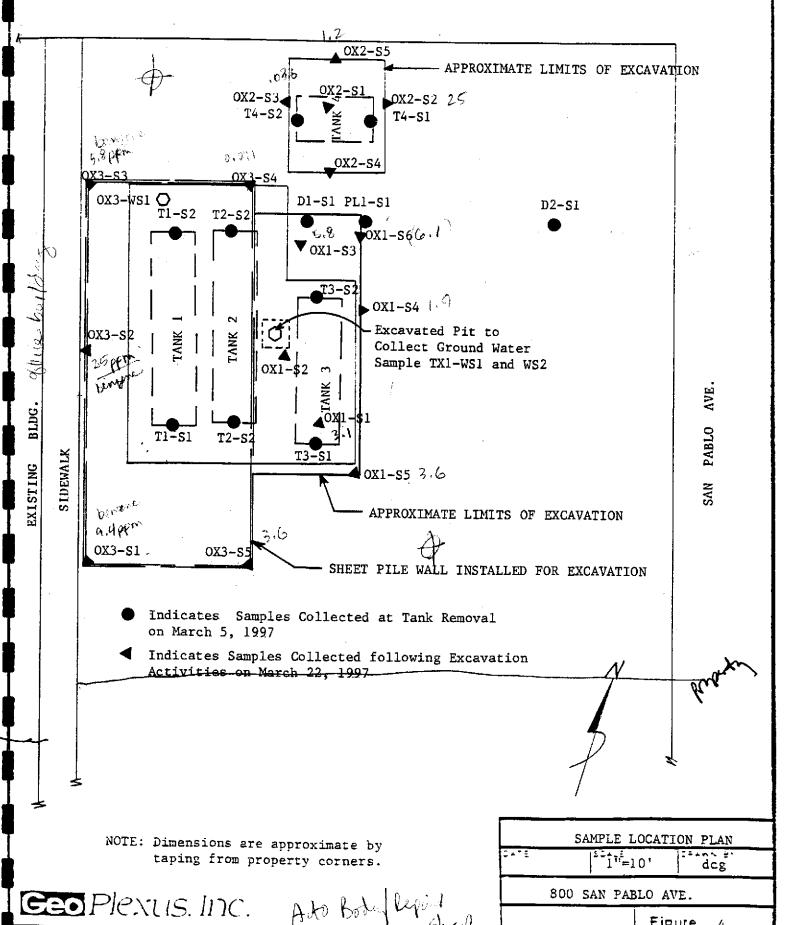


NOTE: Dimensions are approximate by taping from property corners.

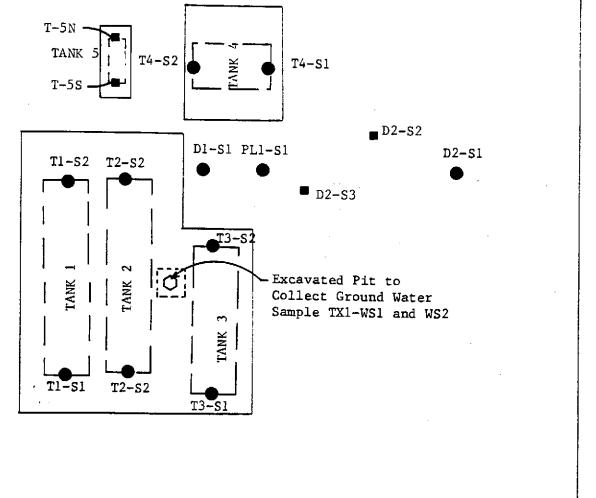
Geo Plexus. Inc.

EXISTING BLDG.

	SAMPLE LOCAT	TION PLAN
A T E	\$5^1'=10'	dcg



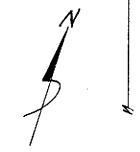
Figure



Samples T1-S1,2; T2-S1,2; T3-S1,2; T4-S1,2 and D1-S1; D2-S1, PL1-S1 and TX1-WS1,2 collected 3/5/97

Samples T-5N and T-5S collected on 5/31/97

Samples D2-S2 and D2-S3 collected on 4/1/97



NOTE: Dimensions are approximate by taping from property corners.

Geo	Plexus.	II	nc.
			* ~ .

EXISTING BLDG.

SIDEWALK

	SAMPLE LOCATION PLAN
- I	1"=10' dcg
	800 SAN PABLO AVE.
	Figure 5

SAN PABLO AVE.

APPENDIX A

ANALYTICAL TEST DATA

GeoPlexus, Inc.

CHAIN-OF-CUSTODY

1900 Wyatt Drive, Suite I, Santa Clara, California 95054

Phone 408/987-0210 Fax 408/988-0815 .

PROJECT NUMBER		PROJECT WA	ME					***	pe o		lysis			
C97-0	001	RED	W00.	D G	545			X	- ;	۱ ۸!	<u> </u>	1		
Send Report Atter	ntion of:		Re	port Du	e Verbal Due	Number	Type	BTEX	JV.	640	17186		Condition	
DAVID	6110	K	ļ	/ /	1 / /	of	of	1 1	_		3		of	Initial
Sample Number	Date	Time	супо 3	Grab	Station Location	Cntnrs	Containers	TPHGA	TPH	TorAL	BTEX		74126	· .
	3/1	-			TANK #1		G"BRASS			i			74120	i
T1-51	15/97	11: ZO			SOUTH END, 13 FT.	IEA.	TURE	X	 	X		<u> </u>	74127	
T1-52		11:40		/	TANK # 1 NORTH END 12.5 FT.			X	 	X		<u> </u>	74128	!
T2-51		11:30		/	TANK #2 SOUTH END, 13 FT.			X	 	X			74129	}
TZ-52		11:55		/	TANK # Z NORTH END, 12.5 FT. TANK # 3			X	 	X		i	74130	;
T3-51		11:35		/	SOUTH END, 13 FT.	1 1		X	 	$ \chi $			74131	1
T3-52		12:00		/	TANK #3 NORTH END, 12.5 FT			X	 	X			74132	
T4-51		12:05	 	/	TANKAY EAST END, 11 FT.				x		X	╿ ┤ ┤	•	ļ
T4-52		12:15	 	_	TANK#4 NEST END, 11 FT			ļ <u>-</u>	X	 	X	 !	74133	-
D1-51		12:35		1	DIESEL DISPENSOR				X	 	X	1	74134	1
DZ-51		12:45		1	GASOLINE DISTENSON 4 FT.			X	<u> </u> -	X			74135	
PL-51	\	12:25		/	PRODUCT LINE 4 FT.	1	1	X	X	X			74136	
Relinquished by:		19:55	Y /_	ived by	1/1/W 3/	333	Remarks:	571	زلہ4 م	DAA	D TURNAR	D hua		
Relinquished by:	////:/	Date/Time 3/4/97	Rece		//* . !z/i	e/Time 6/9/	ICE/T	. •			DDCCCC4/670		RO MEINES OTHER	
Relinguished by ((Signature)	1765 Date/Lime 3/6/97	Rece	1/1/1/ ived by Neselus	(Signature) Date	705 e/Time (97	Coor	CON			PRESCRIVATIV APPROPRIES			

Geo Plexus, Inc.

1900 Wyatt Drive, Suite I, Santa Clara, California 95056 Phone 408/987-0210 Fax 408/988-0815

AG1 PROJECT NAME PROJECT NUMBER C 97-001 REDWOOD 6AS Condition | Verbal Due Number Report Due Send Report Attention of: Initial DAVID GLICK Samples Containers Cntnrs Station Location Grab Time Comp Sample Mumber 6"BRASS 3/5/97 13:20 I EA. TUBE STOCKPILE STK1-51 13:25 STK1-52 74137 13:35 STK1-53 13:40 STKI-SY 13:45 STK1-SS 74138 13:55 5TK1-56 14:00 STK1-ST STK1-58 14:05 Date/Time Received by: (Signature) Remarks: TANDARD TURNAROUND 1955 1955 Relinquished by:(Signature) Date/fime 36197

Geo Plexus, Inc.

CHAIN-OF-CUSTODY

1900 Wyatt Drive, Suite 1, Santa Clara, California 95054

wType of Analysis PROJECT NUMBER PROJECT NAME | REDWOOD GAS C97-001 Condition Report Due Verbal Due Number Type Send Report Attention of: Initial of DAVID GLICK Samples Containers Cntnrs Grab | Station Location Date Time Comp Sample Number ACIDIFIED TANK 12 TX1-WSIA 3/5/97 14:15 74139 EXCAVATION PIT ~ 13 FT. I EA. 40 ML VCA 74140 14:40 #2 TX1-WS1B 1 LITER 74141 15:00 BOTTLE 12 TX1-W52 Relinquished by: (Signature) Date/Time | Received by (Signature) Remarks: STANDARD TURN AROUND VOAS ORG METALS OTHER RE(inquished by: (Signature) Date/Time Received by: (Signature) **PRESERVATIVE** HEAD SPACE ABSENT CONTAINERS 3/6/97

Geo Plexus, Inc.	Client Project ID:# C97-001; Redwood Gas	Date Sampled: 03/05/97									
1900 Wyatt Drive, Suite 1		Date Received: 03/06/97									
Santa Clara, CA 95054	Client Contact: David Glick	Date Extracted: 03/06-03/10/97									
	Client P.O: Date Analyzed: 03/06-03.										
G I' D (C/, C12	Continue Description (C) C12) Valetile Valence bear and Constinut with Mathed tout Dutyl Ethant & DTEV*										

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*

Lab ID	Client ID	Matrix	TPH(g) ⁺	МТВЕ	Benzene	Toluene	Ethylben- zene	Xylenes	% Rec. Surrogate
74126	T1-S1	. S.	380,b,d	ND< 0.8	0.66	2.5	10	45	98
74127	T1-S2	S	160,b,d	0.53	0.18	1.4	2.6	7.8	99
74128	T2-S1	S	1100,b,d	5.0	3.3	37	24	110	99
74129	T2-S2	S	490,b,d	ND< 2.7	1.2	1.8	10	35	99
74130	T3-S1	S	240,b,d	5.4	1.1	7.6	5.9	31	97
74131	T3-S2	S	97,a	30	1.4	1.0	2.5	9.4	96
74132	T4-S1	S		1.0	0.14	0.16	0.45	0.39	98
74133	T4-S2	S		0.52	0.046	0.12	0.42	0.35	97
74134	D1-S1	S		10	4.5	0.15	0.81	2.3	93
74135	D2-S1	S	530,a	6.7	11	32	9.1	43	105
74136	PL-S1	S	8.5,a	5.6	1.4	0.63	0.36	0.90	95
74137	STKP-S1-S4	S	120,b,d	ND< 0.5	0.10	1.2	0.84	6.3	97
74138	STKP-S5-S8	S	320,b,d	ND< 1.3	0.22	1.9	3.2	25	96
74139	TX1-WS1A	W	120,000,a,h	52,000	11,000	13,000	3800	21,000	104
74140	TX1-WS1B	w	110,000,a,h	72,000	15,000	12,000	3500	19,000	99
Reportin	g Limit unless	W	50 ug/L	5.0	0.5	0.5	0.5	0.5	
otherwise stated; ND means not detected above the reporting limit		S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

^{*} water and vapor samples are reported in ug/L, soil and sludge samples in mg/kg, and all TCLP extracts in mg/L

[#] cluttered chromatogram; sample peak coelutes with surrogate peak

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant (aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment; j) no recognizable pattern.

Geo Plexus, Inc.		Client Proje	ct ID:# C97-001; Redwood Gas	Date Sampled: 03	Date Sampled: 03/05/97			
1900 Wyatt Drive, Suite 1				Date Received: 03/06/97				
Santa Clara,	CA 95054	Client Conta	act: David Glick	Date Extracted: 03/06-03/07/97 Date Analyzed: 03/06-03/07/97				
	<u> </u>	Client P.O:						
EDA methods m			C23) Extractable Hydrocarbons)(3510)			
Lab ID	Client ID	Matrix	TPH(d) ⁺	5C1112(3338) 61 GC111	% Recovery Surrogate			
74132	T4-S1	S	300,a		104			
74133	T4-S2	S	550,a		105			
74134	D1-S1	S	2.6,d		104			
74136	PL-S1	s	ND		104			
74137	STKP-S1-S4	s	110,d		105			
74138	STKP-S5-S8	S	390,d,b		105			
74141	TX1-WS2	W	220,000,d		99			
<u> </u>								
Reporting	Limit unless other: ND means not de-	W	50 ug/L		1			
	wise stated; ND means not de- tected above the reporting limit		1.0 mg/kg	!				

^{*} water samples are reported in ug/L, soil and sludge samples in mg/kg, and all TCLP and STLC extracts in mg/L

[&]quot; cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment.

Geo Plexus, Inc. 1900 Wyatt Drive, Suite 1			Client Project ID:# C97-001; Redwood Gas Date Sampled: 03/05/97							97
							Da	Date Received: 03/06/97		
Santa Cla	ra, CA 95054		Client Contact:	David Glic	ck/John Sutfi	n	Da	ite Extract	ed: 03/13	/97
		0	Client P.O:	- A Lentino			Da	ite Analyze	ed: 03/14	/97
EPA analyti	cal methods 6010/200	0.7, 239.	2 ⁺	LUFT Me	etals [*]					
Lab ID	Client ID		ix Extraction°	xtraction ^o Cadmium		Lead		Nickel	Zinc	% Rec. Surrogate
74137-38	STK1 (S1-S8)	S	TTLC	ND	30	7.3		29	32	107
						·				

							-			
	,									
										<u> </u>
	Limit unless other-	s	TTLC	0.5 mg/kg	0.5	3.0)	2.0	1.0	
	e the reporting limit	w	TTLC	0.005 mg/L	0.005	0.00)5	0.05	0.05	
			STLC.TCLP	0.01 me/L	0.05	0.3	2	0.05	0.05	

^{*} soil samples and sludge are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L

⁺ Lead is analysed using EPA method 6010 (ICP) for soils, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples

^o EPA extraction methods 1311(TCLP), 3010/3020(water, TTLC), 3040(organic matrices, TTLC), 3050(solids, TTLC); STLC from CA Title 22

[&]quot; surrogate diluted out of range; N/A means surrogate not applicable to this analysis

[&]amp; reporting limit raised due matrix interference

i) liquid sample that contains greater than ~ 2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

Geo Plexus, Inc. Client Project ID:# C97-001; Redwood Gas Date Sampled:						05/97	
1900 Wyatt Dr	rive, Suite 1				Date Received: 03.	/06/97	
Santa Clara, C	A 95054	lient Con	tact: David Gl	ick	Date Extracted: 03/07/97		
	C	lient P.O	:		Date Analyzed: 03	/10/97	
EPA analytical me	ethods 6010/200.7, 239.2	.+	Lead	1 *			
Lab ID	Client ID	Matrix	Extraction	Le	ad*	% Recovery Surrogate	
74126	T1-S1	S	TTLC	1	0	99	
74127	T1-S2	S	TTLC	8	.4	96	
74128	T2-S1	S	TTLC	8	.3	100	
74129	T2-S2	S	TTLC	7	.3	99	
74130	T3-S1	S	TTLC	9	.4	99	
74131	T3-S2	S	TTLC	1	0	101	
74135	D2-S1	S	TTLC	8	.4	101	
74136	PL-S1	S	TTLC	7	.2	102	
	· · · · · · · · · · · · · · · · · · ·						
	unless otherwise stated detected above the re-	; S	TTLC	3.0 1	ng/kg		
	rting limit	w	TTLC	0.003	mg/L		

^{*} soil and sludge samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L

STLC,TCLP

⁺ Lead is analysed using EPA method 6010 (ICP)for soils, sludges, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples

^o EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC from CA Title 22

surrogate diluted out of range; N/A means surrogate not applicable to this analysis

[&]amp; reporting limit raised due matrix interference

i) liquid sample that contains greater than - 2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553 Tele: 510-798-1620 Fax: 510-798-1622

Geo Plexus, I	inc.	Client Proje	ct ID:# C97-001; Red	wood Gas	s Date Sampled: 03/05/97			
1900 Wyatt D	rive, Suite 1				Date Receive	ed: 03/06/97		
Santa Clara,	CA 95054	Client Conta	act: David Glick/John	Sutfin	Date Extract	ted: 03/13/97		
		Client P.O:			Date Analyz	ed: 03/13/97		
		•	ctivity, Corrosivity &	Ignitability	7)			
	ction 66261.21-66261.2		D	C	inite (mU)	T		
Lab ID	Client ID	Matrix	Reactivity [†]	 	ivity (pH)	Ignitability ⁰		
74137-38	STK1 (S1-S8)	S	negative	8.17 @	② 25.6°C	negative		
								
		-	-					
			•	:				
	<u> </u>	-						
		-						
			<u> </u>					
						 		
negative no reactive of and shows no	neans no obvious r syanide or sulfide o indication of exp	eaction with v (< ~ 5 mg/kg closivity.	water, no evolution of cyanide and 50 mg/kg	gas upon co g sulfide by	ntact with wat EPA SW-846,	er, appears to cor chapter 7, modif		
o negative fo to a naked fi	r a soil means the a ame.	absence of spo	ontaneous combustion	and the ab	sence of flamm	nability upon expo		

Date: 03/06/97

Matrix: Water

	Concentr	ation	(mg/L)		% Reco	very	
·· Analyte	Sample (#74060)	MS	MSD	Amount Spiked	MS	MSD	RPD
TPH (gas)	0.0	98.4	97.3	100.0	98.4	97.3	1.2
Benzene Toluene Ethyl Benzene	0.0	9.6 10.0 10.4	9.4 9.6 10.0	10.0 10.0 10.0	96.0 100.0 104.0	96.0	2.1 4.1 3.9
Xylenes	0.0	30.9	30.0	30.0	103.0	100.0	3.0
TPH (diesel)	. 0	135	129	150	90	86	4.5
TRPH (oil & grease)	N/A	N/A	N/A	 N/A 	N/A	N/A	N/A

[%] Rec. = (MS - Sample) / amount spiked x 100

 $RPD = (MS - MSD) / (MS + MSD) \times 2 \times 100$

110 2nd Avenue South, #D7, Pacheco, CA 94553 Tele: 510-798-1620 Fax: 510-798-1622

McCAMPBELL ANALYTICAL INC.

QC REPORT FOR HYDROCARBON ANALYSES

Date: 03/07/97

Matrix: Water

	Concentr	ation	(mg/L).		% Reco	very	
Analyte	Sample			Amount			RPD
	(#74177)	MS	MSD	Spiked	MS	MSD	
TPH (gas)	N/A	N/A	A\N	 N/A	N/A	N/A	N/A
Benzene	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Toluene	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ethyl Benzene	N/A	N/A	N/A	N/A	N/A	N/A	A/N
Xylenes	N/A	N/A	N/A	N/A	N/A 	N/A	N/A
TPH (diesel)	0	135	119	150	90	79	12.8
TRPH (oil & grease)	N/A	N/A	N/A	N/A	 N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

 $RPD = (MS - MSD) / (MS + MSD) \times 2 \times 100$

Date: 03/10/97

Matrix: Water

	Concentr	ation	(mg/L)		% Reco	very	
Analyte	Sample			Amount			RPD
	(#74177)	MS	MSD	Spiked	MS	MSD	
			01.4	100.0	-	0.7.4	
TPH (gas)	0.0	99.0	91.4	100.0	99.0	91.4	8.0
Benzene	0.0	9.6	9.0	10.0	96.0	90.0	6.5
Toluene	0.0	10.0	9.3	10.0	100.0	93.0	7.3
Ethyl Benzene	0.0	10.3	9.6	10.0	103.0	96.0	7.0
Xylenes	0.0	30.7	28.7	30.0	102.3	95.7	6.7
TPH (diesel)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TRPH (oil & grease)	N/A	N/A	N/A	N/A	 N/A 	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = $(MS - MSD) / (MS + MSD) \times 2 \times 100$

Date: 03/07/97-03/10/97 Matrix: Soil

	Concentr	ation	(mg/kg)	.	% Reco	very	
Analyte	Sample			Amount			RPD
	(#68840)	MS	MSD	Spiked	MS	MSD	
TPH (gas)	 N/A	N/A	n/A	N/A	N/A	N/A	N/A
Benzene	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Toluene	N/A	N/A	N/A	N/A	N/A	N/A	$A \setminus N$
Ethylbenzene	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Xylenes	N/A	N/A	N/A	N/A	A\N	N/A	N/A
TPH (diesel)	0	314	294	300	105	98	6.4
TRPH (oil and grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

[%] Rec. = (MS - Sample) / amount spiked x 100

RPD = $(MS - MSD) / (MS + MSD) \times 2 \times 100$

Date: 03/06/97

Matrix: Soil

	Concent	ration	(mg/kg)		% Reco	very	
Analyte	Sample			Amount			RPD
,	(#68848)	MS	MSD	Spiked	MS	MSD	
· · · · · · · · · · · · · · · · · · ·				<u> </u>	*	-	
TPH (gas)	0.000	1.788	1.802	2.03	88	89	0.8
Benzene	0 000	0.186	0.192	0.2	93	96	3.2
Toluene	0.000	0.190	0.198	0.2	95	99	4.1
Ethylbenzene	0.000	0.184	0.192	0.2	92	96	4.3
Xylenes	0.000	0.550	0.566	0.6 	92 	94	2.9
TPH (diesel)	0	318	321	300	106	107	0.8
TRPH (oil and grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = $(MS - MSD) / (MS + MSD) \times 2 \times 100$

Date: 03/10/97

Matrix: Soil

	Concent	ration	(mg/kg)	.]	% Reco	very	
Analyte	Sample			Amount			RPD
	(#68848)	MS .	MSD	Spiked 	MS	MSD	
TPH (gas)	0.000	1.858	1.882	2.03	92	93	1.3
Benzene	0.000	0.180	0.180	0.2	90	90	0.0
Toluene	0.000	0.186	0.188	0.2	93	94	1.1
Ethylbenzene	0.000	0.180	0.180	0.2	90	90	0.0
Xylenes	0.000	0.536	0.532	0.6 	89	89	0.7
TPH (diesel)	N/A	N/A	N/A	 N/A	N/A	N/A	N/A
TRPH (oil and grease)	 N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

 $RPD = (MS - MSD) / (MS + MSD) \times 2 \times 100$

QC REPORT FOR METALS

Date: 03/14/97

Matrix: Soil

Extraction:TTLC

	Concentr	ation			% Recor	very	
Analyte	(mg	/kg,mg/I	(ت	Amount			RPD
	Sample	MS	MSD	Spiked	MS	MSD	-
_ 	 						
Arsenic	0.0	5.2	5.0	5.0	105	99	5.4
Selenium	0.0	4.8	4.6	5.0	95	92	4.0
Molybdenum	0.0	5.3	5.2	5.0	106	104	1.9
Silver	0.0	0.4	0.4	0.5	85	82	2.7
Thallium	0.0	4.1	4.0	5.0 j	82	80	1.5
Barium	0.0	4.1	4.0	5.0	82	80	2.3
Nickel	0.0	4.7	4.6	5.0	94	93	1.1
Chromium	0.0	5.1	4.9	5.0	101	99	2.1
Vanadium	0.0	5.0	4.9	5.0	100	98	2.5
Beryllium	0.0	5.3	5.1	5.0	106	102	3.3
Zinc	0.0	5.0	4.9	5.0	100	98	2.7
Copper	0.0	4.5	4.4	5.0	89	88	2.0
Antimony	0.0	4.3	4.1	5.0	85	82	3.4
Lead	0.0	4.6	4.5	5.0	92	90	1.8
Cadmium	0.0	5.1	4.9	5.0	101	98	3.7
Cobalt	0.0	4.7	4.6	5.0	94	91	3.6
Mercury	0.000	0.254	0.265	0.25	102	106	4.2

% Rec. = (MS - Sample) / amount spiked x 100 $RPD = (MS - MSD) / (MS + MSD) \times 2 \times 100$

QC REPORT FOR ICP and/or AA METALS

Date: 03/09/97-03/10/97 Matrix: Soil

Extraction: TTLC

	Concenti				% Reco	very:	
Analyte	(mg	g/kg,mg/	L,ug/wip	Amount			RPD
<u> </u>	Sample	MS	MSD	Spiked	MS	MSD	
Total Lead	0.0	4.64	4.63	5.0	93	93	0.2
Total Cadmium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Chromium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Mickel	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Zinc	N/A	N/A	N/A	N/A	N/A	N/A	N/A
 Total Copper 	N/A	N/A	N/A	N/A	N/A	N/A	N/A
STLC Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

 $RPD = (MS - MSD) / (MS + MSD) \times 2 \times 100$

GEOPICXUS, INC. CHAIN-OF-CUSTOD X 1900 Wyatt

Phone 408/987-0210 Fax 408/988-0815 .

							1	1	A6P310	Phone 408/98	7-0210 Fax 408/988	.0013
PROJECT NUMBER		PROJECT NA	HE I	EDU	UVUD 4113			TBE	ype of Analysis			
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David	alica	-		/ /	/ /	of	of	`	121 1 1 1 1		of	initia
Sample Number	Date	Time	Comp	Grab	Station Location	Cntnrs	Containers	TP#9	TP II		Samples 7.46.20	
Dx1-51	3/22/17	734		/	BOTTOM JOUTH	ICA	C'GRASS TUBE	·		,-	74638 74639	
7x1-52	__	734		/	GUETON CHATION I			V			74640	· .
UXI -53		743		1	EXCAPATION I BUTTON NOTATH -13'			v			74641	
0x1-54		740		/	SXCAVADAVI			V			74642	i
DX1-55		749	! !	/	SEWATER 1			\ \ \			74643	; ; <u>.</u>
DX1-54		3 ⁴ \$753			PACAVATION / N WATI-1	2'		<u> </u>			74644	: - - -
2x 2-31		755			SACOTUM CEMAS -131	72		i			74645	;
CXZつZ		759		/	SXCAVATION 2 EAST WAT!			نا			74646	
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CXZ -54		805			Except Anon 2 port until 9;			1			74648	
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Geo Plexus, Inc.

CHAIN-OF-CUSTODY

1900 Wyatt Drive, Suite 1, Santa Clara, California 95054

Phone 408/987-0210 Fax 408/988-0815

type of Analysis PROJECT NUMBER PROJECT NAME REDWOOD GAS 097001 Condition Send Report Attention of: Verbal Due Number Report Due DAVID ALKE Initial Samples Containers Cotors Station Location Grab Time Comp Sample Number 74649 Auditi40 SYLLAU ATTURY 3 0x3 ws1 1/2 3/22/67 Len 40,01/13 825 WATER 16172 74650 + CX3 -W31 AMBEL 825 1 En WERES 3/22/47 lest 74651 835 CX3-51 EXC AVATION 3 WYST WALL ESAKE 74652 UX3 -52 836 SURVATION 3 74653 0×3-53 837 NW WAT -14 EXCAVITION 3 NEWAI -121 74654 838 SYCAVATION 3 0×3-35 839 SE WAT - 14 Received by: (Signature) Date/Time Remarks: STANDAND TURNAKOUND 3/24/47 Revinguished by: (Arghature) Received by: (Signature) Date/Time 3 24 97 1740 Received by: (Signature) Date/Time Date/Time Relinquished by: (Signature)

Geo Plexus, Inc.

Client Project ID: # C97001; Redwood Gas

Date Sampled: 03/22/97

Date Received: 03/24/97

Client Contact: David Glick

Date Extracted: 03/24-03/25/97

Client P.O:

Date Analyzed: 03/24-03/26/97

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID (5030) % Rec. Ethylben-Xylenes Surrogate $TPH(g)^{+}$ **MTBE** Toluene Lab ID Client ID Matrix Benzene zene 13 7.3 40 97 3.1 74638 OX1-S1 S 370,b,d 3.1 100 42 52 280 S 18 74639 OX1-S2 2500,b,d 12 29 150 101 S 1100,b,d 41 7.2 63 74640 OX1-S3 5.9 32 99 OX1-S4 S 260,b,d 16 1.9 15 74641 20 9.8 54 97 S 4.9 3.6 74642 OX1-S5 470,b,d 108# 24 7,5 39 S 6.1 330,a 11 74643 OX1-S6 0.42 0.017 0.022 0.035 0.042 95 S 74644 OX2-S1 11,g,d 94 OX2-S2 S 79,g,d ND< 0.18 0.19 0.14 1.4 3.4 74645 ND< 0.12 0.036 0.053 0.0520.2296 74646 OX2-S3 S 69,g,d 98 S 0.51 0.18 ND < 0.011.2 0.56 OX2-S4 93,g,d 74647 0.055 0.07799 0.25 0.009 0.032 OX2-S5 S 20,g,d 74648 102 W 23,000,a 18,000 5800 1100 ND< 13 3700 74649 OX3-WS1A 20 102 9.4 43 110 74650 OX3-S1 S 890.a 3.9 108# 97 500 S 25 230 OX3-S2 3800,a 14 74651 W 0.5 0.5 50 ug/L 5.0 0.5 0.5 Reporting Limit unless otherwise stated: ND means not detected 0.005 S $1.0 \, \text{mg/kg}$ 0.05 0.0050.005 0.005 above the reporting limit

^{*} water and vapor samples are reported in ug/L, soil and sludge samples in mg/kg, and all TCLP extracts in mg/L

[#] cluttered chromatogram; sample peak coelutes with surrogate peak

⁺ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant (aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment; j) no recognizable pattern.

Geo Plexus, Inc.	Client Project ID: # C97001; Redwood Gas	Date Sampled: 03/22/97
1900 Wyatt Drive, Suite 1		Date Received: 03/24/97
Santa Clara, CA 95054	Client Contact: David Glick	Date Extracted: 03/24-03/25/97
	Client P.O:	Date Analyzed: 03/24-03/26/97

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*

EPA methods 5030, modified 8015, and 8020 or 602. California RWOCB (SE Bay Region) method GCEID (5020)

Lab ID	Client ID	Matrix	TPH(g) ⁺	MTBE	Benzene	Toluene	Ethylben- zene	Xylenes	% Rec. Surrogate
74652	OX3-S3	S	930,a	4.3	5.8	44	21	120	100
74653	OX3-S4	S	75,b,d	0.77	0.091	0.13	1.0	1.4	98
74654	OX3-S5	S	150,a	0.88	1.2	5.8	2.9	16	96
	•								
							,		
	-								
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	5.0	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

^{*} water and vapor samples are reported in ug/L, soil and sludge samples in mg/kg, and all TCLP extracts in mg/L

[#] cluttered chromatogram; sample peak coelutes with surrogate peak

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment; j) no recognizable pattern.

Geo Plexus, Inc.		Client P	roject ID: # C97001; Redwood Gas	Date Sampled: 03/22/97			
1900 Wyatt Drive, Suite 1				Date Received: 03/24/97			
Santa Clara	Santa Clara, CA 95054		ontact: David Glick	Date Extracted: 03/24-03/25/97			
		Client P	.0:	Date Analyzed: 03/24-03/25/97			
Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel * EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)							
Lab ID	Client ID	Matrix	TPH(d) ⁺	TPH(d) ⁺			

Lab ID	Client ID	Matrix	TPH(d) ⁺	% Recovery Surrogate
74638	OX1-S1	S	370,d	108
74639	OX1-S2	S	820,d	99
74640	OX1-S3	S	240,d	106
74641	OX1-S4	S	50,d	96
74642	OX1-S5	S	98,d	107
74643	OX1-S6	S	32,d	98
74644	OX2-S1	s	160,a,d	107
74645	OX2-S2	S	84,d,b	109
74646	OX2-S3	s	400,a	100
74647	OX2-S4	s	190,a,d	100
74648	OX2-S5	S	16,d,a	109
74649	OX3-WS2	w	3200,d	109
74650	OX3-S1	s	300,d	107
74651	OX3-S2	S	120,d	99
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		w	50 ug/L	
		S	1.0 mg/kg	

^{*} water samples are reported in ug/L, soil and sludge samples in mg/kg, and all TCLP and STLC extracts in mg/L

[&]quot; cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

⁺ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment.

1900 Wyatt Drive, Suite 1 Santa Clara, CA 95054 Cl		Client Project ID: # C97001; Redwood Gas Date Sampled: 03/22/97					
				Date Received: 03	/24/97		
		Client Cor	ntact: David Glick	Date Extracted: 03/24-03/25/97 Date Analyzed: 03/24-03/25/97			
		Client P.O	:				
EPA methods			C23) Extractable Hydrocarbons a nia RWQCB (SF Bay Region) method G		(3510)		
Lab ID	Client ID	Matrix TPH(d) ⁺			% Recovery Surrogate		
74652	OX3-S3	s	520,d		98		
74653	OX3-S4	S	91,a,d		108		
74654 OX3-S5		s	31,d		109		
					_		
				1.0			
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		e W	50 ug/L				
		S	1.0 mg/kg				

^{*} water samples are reported in ug/L, soil and sludge samples in mg/kg, and all TCLP and STLC extracts in mg/L

[&]quot; cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment.

Date: 03/24/97

Matrix: Soil

w.

	Concent	ration	(mg/kg)	% Recovery			-	
Analyte	Sample			Amount			RPD	
	(#68839)	MS	MSD	Spiked	MS	MSD		
TPH (gas)	0.000	1.953	2.140	2.03	96	105	9.1	
Benzene	0.000	0.210	0.200	0.2	105	100	4.9	
Toluene	0.000	0.214	0.210	0.2	107	105	1.9	
Ethylbenzene	0.000	0.206	0.204	0.2	103	102	1.0	
Xylenes	0.000	0.612	0.606	0.6	102	101	1.0	
TPH (diesel)	. 0	328	319	300	109	106	2.9	
TRPH (oil and grease)	0.0	21.3	20.9	20.8	102	100	1.9	

[%] Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / $(MS + MSD) \times 2 \times 100$

Date: 03/26/97

Matrix: Soil

Concent	ration	(mg/kg)	-	% Recor	very	<u> </u>
Sample (#68850)	MS	MSD	Amount Spiked	MS	MSD	RPĎ
0.000	2.060	2.144	2.03	101	106 ¹	4.0
0.000 0.000 0.000	0.238 0.228 0.676	0.216 0.212 0.630	0.2 0.2 0.6	119 114 113	108 106 105	9.7 7.3 7.0
0	334	334	300	111	111	0.0
0.0	24.9	25.0	20.8	120	120	0.4
	Sample (#68850) 0.000 0.000 0.000 0.000 0.000	Sample (#68850) MS 0.000 2.060 0.000 0.230 0.000 0.238 0.000 0.228 0.000 0.676	Sample (#68850) MS MSD 0.000 2.060 2.144 0.000 0.230 0.208 0.000 0.238 0.216 0.000 0.228 0.212 0.000 0.676 0.630 0 334 334	Sample (#68850) MS MSD Spiked 0.000 2.060 2.144 2.03 0.000 0.230 0.208 0.2 0.000 0.238 0.216 0.2 0.000 0.228 0.212 0.2 0.000 0.676 0.630 0.6	Sample (#68850) MS MSD Spiked MS 0.000 2.060 2.144 2.03 101 0.000 0.230 0.208 0.2 115 0.000 0.238 0.216 0.2 119 0.000 0.228 0.212 0.2 114 0.000 0.676 0.630 0.6 113	Sample (#68850) MS MSD Amount Spiked MS MSD 0.000 2.060 2.144 2.03 101 106 0.000 0.230 0.208 0.2 115 104 0.000 0.238 0.216 0.2 119 108 0.000 0.228 0.212 0.2 114 106 0.000 0.676 0.630 0.6 113 105

[%] Rec. = (MS - Sample) / amount spiked x 100

Date: 03/24/97

Matrix: Water

	Concent	ration	(mg/L)		% Reco	very	
Analyte	Sample			Amount			RPD
	(#74563)	MS	MSD	Spiked	MS	MSD	ļ
	j			<u> </u>			
TPH (gas)	0.0	101.4	100.8	100.0	101.4	100.8	0.6
Benzene	0.0	9.9	9.8	10.0	99.0	98.0	1.0
Toluene	0.0	10.3	10.2	10.0	103.0	102.0	1.0
Ethyl Benzene	0.0	10.4	10.4	10.0	104.0	104.0	0.0
Xylenes	0.0	31.1	31.3	30.0	103.7	104.3	0.6
TPH (diesel)		139	139	150	93	92	0.2
TRPH (oil & grease) 	0	24800	24900	23700	105	105	0.4

% Rec. = (MS - Sample) / amount spiked x 100

Date: 03/26/97

Matrix: Water

_	Concent	ration	(mg/L)		% Reco	very	
Analyte 	Sample (#74673) 	MS	MSD	Amount Spiked 	MS	MSD	RPD
TPH (gas)	0.0	105.3	97.0	100.0	105.3	97.0	8.2
Benzene Toluene	0.0	8.8 9.1	9.3 9.7	10.0	88.0 91.0	93.0 97.0	5.5 6.4
Ethyl Benzene Xylenes	0.0	9.9 29.9	10.1 30.6	10.0 30.0	99.0 99.7	101.0 102.0	2.0 2.3
TPH (diesel)	 N/A	N/A	N/A	 N/A	N/A	N/A	N/A
TRPH (oil & grease)	0	26500	26400	23700	 112 	111	0.4

% Rec. = (MS - Sample) / amount spiked x 100

1900 Wyatt Drive, Suite 1, Santa Clara, California 95054

Phone 408/987-0210 Fax 408/988-0815 4 Hype of Analysis PROJECT NAME PROJECT NUMBER C97001 Reduced Goo, Albor, CA Condition Report Due Send Report Attention of: Number Type Devid Slick Initial Samples Cntnrs Containers Time Como Grab Station Location Sample Number T-5 50 UTL 3/31/57 11:00 2×655 X FJU 301 HE RU DAL Zxc " T-5 north 11:10 DIH FU + T-19rab T-19rab 11:35 VOA woth DTH FW 11:35 amber DZ-52 1/1/97 09:35 2x6"55 X Full 5001 VCH+ " FU ZXG "TT DD-23 09:55 144 WEIGHT. 加坡射 Water. MARC LORGE LANGUE STORES Wall of the state PRESERVATIVE COOR CONDITION 7/5049 CONTAINERS 1 AD SPACE ABSENT Date/Time / Remarks: Relinquished by: (Signature) Date/Time Recoved by (Signature)

Oat 7. H. 4/1(2)12 Date/Time 4-1-97 10:50 Normal TAI Received by: (Signature) Date/Time Date/Time Relinquished by: (Signature)

Geo Plexu	•		Client Proje Gass, Albany		C97001; R	edwood	Date Sample	ed: 03/31-0	4/01/97
1900 Wyat	t Drive, Suite 1		Cass, Albairy				Date Receiv	ed: 04/01/9	7
Santa Clar	a, CA 95054		Client Conta	ct: David G	lick		Date Extract	ted: 04/01-	04/04/97
			Client P.O:				Date Analyz	ed: 04/01-0)4/04/97
Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert- EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFI									BTEX*
Lab ID	Client ID	Matrix	TPH(g) ⁺	МТВЕ	Benzene	Toluene	Ethylben- zene	Xylenes	% Rec. Surrogate
75045	T-5 South	S	470,a	ND< 1	7.9	1.4	12	27	99
75046	T-5 North	s	480,a	ND< 0.2	5.0	1.1	13	29	115#
75047	T-1 grab	w	820,a	5000	16	7.3	ND< 0.8	150	94
75048	D2-S2	s	250,a	3.7	3.6	7.0	6.6	40	100
75049	DD-S3	S	11,c	1.6	3.2	0.16	0.37	0.30	98
									ļ
Reportin	g Limit unless	w	50 ug/L	5.0	0.5	0.5	0.5	0.5	
means	se stated; ND not detected reporting limit	S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

^{*} water and vapor samples are reported in ug/L, soil and sludge samples in mg/kg, and all TCLP extracts in mg/L

[#]cluttered chromatogram; sample peak coelutes with surrogate peak

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment; j) no recognizable pattern.

Geo Plexus, l			oject ID: #C97001; Redwood	Date Sampled: 03	/31-04/01/97
1900 Wyatt D	Prive, Suite 1	Gass, Alba	any	Date Received: 04	1/01/97
Santa Clara,	CA 95054	Client Co	ntact: David Glick	Date Extracted: 0	4/01/97
		Client P.C):	Date Analyzed: 04	1/01/97
EPA methods m			C23) Extractable Hydrocarbons a		0(3510)
Lab ID	Client ID	Matrix	TPH(d) ⁺		% Recovery Surrogate
75047	T-1 grab	w	550,d		113
75048	D2-S2	S	90,d		109
75049	DD-S3	S	ND		106
				<u>-</u>	
Reporting	Limit unless other- ND means not de-	w	50 ug/L		
tected above	e the reporting limit	S	1.0 mg/kg		

^{*} water samples are reported in ug/L, soil and sludge samples in mg/kg, and all TCLP and STLC extracts in mg/L

[&]quot; cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

⁺ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment.

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553 Tele: 510-798-1620 Fax: 510-798-1622

Geo Plexus, I 1900 Wyatt D		Client I Gass, Al	Project ID: # bany	C97001; Redwood	Date Sampled Date Received		
Santa Clara,	CA 95054	Client C	ontact: David	Glick	Date Extracted	d: 04/01/97	
		Client P.			Date Analyzed: 04/02/97		
EPA analytical r	nethods 6010/200.7, 239.2	+	Leà	ď*			
Lab ID	Client ID	Matrix	Extraction	Lea	ıd [*]	% Recovery Surrogate	
75045-46	T-5 North/South	s	TTLC	8.	9	94	
·							
						•	
100							
					1.		
Reporting Limit ND means not	tunless otherwise stated; detected above the re-	S	TTLC	3.0 m	g/kg		
	orting limit	W	TTLC	0.005 1	mg/L		
	·		STLC,TCLP	0.2 m	ng/L		

^{*} soil and sludge samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L

⁺ Lead is analysed using EPA method 6010 (ICP)for soils, sludges, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples

^o EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC from CA Title 22

[#] surrogate diluted out of range; N/A means surrogate not applicable to this analysis

[&]amp; reporting limit raised due matrix interference

i) liquid sample that contains greater than ~ 2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

Date: 04/01/97

Matrix: Soil

	Concent	ration	(mg/kg)		% Reco	very	
Analyte	Sample (#74209)	MS	MSD	Amount Spiked 	MS E	MSD	RPD
TPH (gas)	0.000	1.876	1.803	2.03	92 95	89 96	4.0
Benzene Toluene Ethylbenzene	0.000	0.206	0.192	0.2 0.2	103	100 95	3.0
Xylenes	0.000	0.580	0.568	0.6	97	95	2.1
TPH (diesel)	0	333	326	300	111	109	2.1
TRPH (oil and grease)	0.0	22.8	22.8	20.8	110	110	0.0

[%] Rec. = (MS - Sample) / amount spiked x 100

 $RPD = (MS - MSD) / (MS + MSD) \times 2 \times 100$

Date: 04/04/97

Matrix: Soil

	Concent	ration	(mg/kg)		% Reco	very	
Analyte	Sample			Amount		wan	RPD
 	(#74209) 	MS	MSD	Spiked 	MS -	MSD	
					-		
TPH (gas)	0.000	1.851	1.822	2.03	91	90	1.6
Benzene	0.000	0.182	0.188	0.2	91	94	3.2
Toluene	0.000	0.194	0.202	0.2	97	101	4.0
Ethylbenzene	0.000	0.186	0.188	0.2	93	94	1.1
Xylenes	0.000	0.552	0.562	0.6	92 	94	1.8
TPH (diesel)	0	336	336	300	112	112	0.2
TRPH	0.0	22.5	22.1	20.8	 108 	106	1.8

[%] Rec. = (MS - Sample) / amount spiked x 100

110 2nd Avenue South, #D7, Pacheco, CA 94553 Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 04/01/97

Matrix: Water

	Concent	ration	(mg/L)		% Reco	very	
Analyte	Sample			Amount			RPD
 	(#74791) 	MS	MSD	Spiked	MS	MSD	
				<u></u>	-	-	
TPH (gas)	0.0	88.7	97. 4	100.0	88.7	97.4	9.4
Benzene	0.0	9.1	9.5	10.0	91.0	95.0	4.3
Toluene	0.0	9.3	9.8	10.0	93.0	98.0	5.2
Ethyl Benzene	0.0	9.5	10.2	10.0	95.0	102.0	7.1
Xylenes	0.0	28.1	30.6	30.0	93.7	102.0	8.5
 TPH (diesel)	0	140	139	150	93	93	0.9
TRPH (oil & grease)	0	24000	23400	 23700 	 101 	99	2.5

% Rec. = (MS - Sample) / amount spiked x 100

Date: 04/04/97

Matrix: Water

	Concentration (mg/L)			% Recovery			
Analyte	Sample	•		Amount			RPD
	(#75116) 	MS	MSD	Spiked 	MS	MSD	
TPH (gas)	0.0	89.1	100.6	100.0	89.1	100.6	12.1
Benzene	0.0	8.2	9.2	10.0	82.0	92.0	11.5
Toluene	0.0	8.6	9.8	10.0	86.0	98.0	13.0
Ethyl Benzene	0.0	8.7	10.0	10.0	87.0	100.0	13.9
Xylenes	0.0	25.9	29.6	30.0 !	86.3	98.7	13.3
TPH (diesel)	0	140	134	150	93	89	4.1
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

QC REPORT FOR METALS

Date: 04/02/97 Matrix: Soil

Extraction:TTLC

	Concentr	ation		}	% Recov	very	
Analyte	(mg	/kg,mg/I	(۲)	Amount _e			RPD
	Sample	MS	MSD	Spiked	MS	MSD	
Arsenic	0.0	4.7	4.8	5.0	95	95	0.7
Selenium	0.0	4.6	4.6	5.0	91	91	0.0
Molybdenum	0.0	4.9	4.9	5.0	97	98	1.4
Silver	0.0	0.5	0.5	0.5	94	95	0.6
Thallium	0.0	4.3	4.3	5.0	86	85	1.0
Barium	0.0	4.3	4.3	5.0	85	86	0.6
Nickel	0.0	4.6	4.7	5.0	93	94	1.0
Chromium	0.0	4.9	5.0	5.0	99	100	1.2
Vanadium	0.0	4.6	4.6	5.0	91	92	0.6
Beryllium	0.0	5.5	5.5	5.0	110	110	0.2
Zinc	0.0	4.9	5.0	5.0	99	99	0.7
Copper	0.0	4.4	4.4	5.0	88	87	0.8
Antimony	0.0	4.3	4.3	5.0	87	87	0.0
Lead	0.0	4.5	4.6	5.0	91	92	0.9
Cadmium	0.0	4.8	4.8	5.0	96	96	0.0
Cobalt	0.0	4.7	4.7	5.0	94	95	0.8
Mercury	0.000	0.254	0.265	0.25	102	106	4.2
	_ _			l!			

% Rec. = (MS - Sample) / amount spiked x 100

		McCAMPBELL ANALYTICAL							CHAIN OF CUSTODY RECORD				2DD																		
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CHROMALAB, INC.

Environmental Services (SDB)

April 8, 1997

Submission #: 9704030

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: G-C97001/BG

Received: April 1, 1997

Project#: 8385

re: One sample for Polynuclear Aromatic Hydrocarbons (PAHs) analysis.

Method: SW846 Method 8270A Nov 1990

Client Sample ID: T-1 GRAB

Spl#: 124167 Sampled: March 31, 1997 Matrix: WATER

Extracted: April 7, 1997

Analyzed: April 7, 1997 Run#: 6167

		REPORTING	BLANK	BLANK I	ILUTION
	RESULT	LIMIT	RESULT	SPIKE	FACTOR
ANALYTE	(ug/L)	(ug/L)	(ug/L)	(%)	
NAPHTHALENE	N.D.	2.0	N.D.		1
ACENAPHTHYLENE	N.D.	2.0	N.D.		1
ACENAPHTHENE	N.D.	2.0	N.D.	67.3	1
FLUORENE	N.D.	5.0	N.D.		1
PHENANTHRENE	N.D.	2.0	N.D.		1
ANTHRACENE	N.D.	2.0	N.D.		1
FLUORANTHENE	N.D.	2.0	N.D.		1
PYRENE	N.D.	2.0	N.D.	96.3	1
BENZO (A) ANTHRACENE	N.D.	2.0	N.D.		1
CHRYSENE	N.D.	2.0	N.D.		1
BENZO (B) FLUORANTHENE	N.D.	2.0	N.D.		1
BENZO (K) FLUORANTHENE	N.D.	2.0	N.D.	- -	1
BENZO (A) PYRENE	N.D.	2.0	N.D.		1
INDENO(1,2,3-CD)PYRENE	N.D.	2.0	N.D.		1
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Michael Lee Chemist

Chip Poalinelli Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

April 8, 1997

Submission #: 9704030

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: G-C97001/BG

Received: April 1, 1997

Project#: 8385

re: Surrogate report for 1 sample for Polynuclear Aromatic Method: SW846 Method 8270A Nov 1990

Lab Run#: 6167 Matrix: WATER

Sample#	Client Sample ID	Surrogate	% Recovery Recovered Limits
124167-1	T-1 GRAB	NITROBENZENE-D5	68.5 35-114
124167-1	T-1 GRAB	2-FLUOROBIPHENYL	73.6 43-116
124167-1	T-1 GRAB	TERPHENYL-D14	139 33-141
			% Recovery
Sample#	QC Sample Type	Surrogate	Recovered Limits
125064-1	Reagent blank (MDB)	NITROBENZENE-D5	86.2 35-114
125064-1	Reagent blank (MDB)	2-FLUOROBIPHENYL	85.0 43-116
125064-1	Reagent blank (MDB)	TERPHENYL-D14	94.2 33-141
125065-1	Spiked blank (BSP)	NITROBENZENE-D5	62.9 35-114
125065-1	Spiked blank (BSP)	2-FLUOROBIPHENYL	68.3 43-116
125065-1	Spiked blank (BSP)	TERPHENYL-D14	99.2 33-141
125066-1	Spiked blank duplicate	(BSD) NITROBENZENE-D5	68.0 35-114
125066-1	Spiked blank duplicate	(BSD)2-FLUOROBIPHENYL	72.4 43-116
125066-1	Spiked blank duplicate	(BSD)TERPHENYL-D14	94.6 33-141

\$105 QCSURR1229 MIKELEE 08-Apr-97 11

APPENDIX B

UST TRANSPORTATION MANIFEST DOCUMENTS

UNIFORM HAZARDOUS	1. Gasaruto/s US EPA	_	-	Paramet P	-	2. Page 1	in one required by F
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DAY OR NIGHT TELEPHONE (510) 235-1393

CERTIFICA CERTARION CERTIFICA SERVICES CERTARION DE CERTA

CUSTOMER UPERIOR UNGER JOB NO. 70175

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EST METHOD	VISUAL (GASTECH/1314 SM	IPN LAST PF	RODUCT	ure	
Petroleum Ins This certifica	stitute and h	ive personally deter ave found the cond on conditions ex bject to compliance	dition to be in isting at the	accordance time the ins	with its assigned spection herein se	designation.
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DAY OR NIGHT TELEPHONE (510) 235-1393

CERTIFICATION CERTIFIED SERVICES CHAPANY Ser Boulevard - Richmond, Callbart 1960

NO. 23204

CUSTOMER SUPERIOR UNDER JOS NO. 970175

LOCATION: RICHOOND DATE: 97/03/17 TIME: 15:05 EST METHOD VISUAL GASTECH/1314 SMPN LAST PRODUCT ULG This is to certify that I have personally determined that this tank is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspector herein set forth was completed and is issued subject to compliance with all qualifications and instructions. TANK SIZE 10000 GALLON TANK CONDITION SAPE FOR FIRE REMARKS: OXYGEN 20.94 LOWER EXPLOSIVE LIMIT LESS THAN 0.15. REMARKS: OXYGEN 20.94 LOWER EXPLOSIVE LIMIT LESS THAN 0.15. REMARKS: OXYGEN 20.94 LOWER EXPLOSIVE LIMIT LESS THAN 0.15. REMARKS: OXYGEN 20.94 LOWER EXPLOSIVE LIMIT LESS THAN 0.15. REMARKS: OXYGEN 20.98 LOWER EXPLOSIVE LIMIT LESS THAN 0.15. REMARKS: OXYGEN 20.99 LOWER EXPLOSIVE LI		FOR: _	ERICKSON, INC.	TANK NO	19734	. ,	
This is to certify that I have personally determined that this tank is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions. TANK SIZE 10000 GALLON TANK CONDITION SAPE FOR FIRE REMARKS: OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN 0.1% INC. HEREBY CERTIFIES THAT THE ABOVE MUNEERED TANK HAS BEEN INC. HEREBY CERTIFIES THAT THE ABOVE MUNEERED TANK HAS BEEN INC. HEREBY CERTIFIES THAT THE ABOVE MUNEERED TANK HAS BEEN INC. HAS THE APPROPRIATE PERMITS FOR, AND HAS ACCEPTED THE TANK OUS FOR PROCESSING. INC. HAS THE APPROPRIATE PERMITS FOR, AND HAS ACCEPTED THE TANK OUS FOR PROCESSING. STANDARD SAFETY DESIGNATION SAFE FOR MEN: Means that in the compartment or space so designated (a) The oxygen content of the atmospheric changes occur. STANDARD SAFETY DESIGNATION SAFE FOR MEN: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19% sectors by volume: and that (b) Tracic materials under existing atmospheric conditions where maniferance as directed on the Inspector's certificate. SAFE FOR FIRE Means that in the compartment so designated (a) The oxygen content of the improspheric conditions where maniferance as directed on the Inspector's certificate. SAFE FOR FIRE Means that in the compartment so designated (a) The occupant of the Inspector, the residues are not capable of producing toxic materials under existing atmospheric conditions where maniferated as directed on the Inspector's certificate. SAFE FOR FIRE Means that in the compartment so designated (a) The occupant of the Inspector, the residues are not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of fire are with the compartment was desured.	LO	CATION: RI	CHMOND	DATE: 97/0)3/17 TIME: _	15:05	
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INC. HEREBY CERTIFIES THAT THE ABOVE MUMBERED TANK HAS BEEN TEN. PROCESSED, AND THEREPORE DESTROYED AT OUR PERMITTED HAZARDOUS FACILITY. SECONDARY INC. HAS THE APPROPRIATE PERMITS FOR, AND HAS ACCEPTED THE TANK TO US FOR PROCESSING. In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or if in any doubt, remediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur. STANDARD SAFETY DESIGNATION SAFE FOR MEN: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 195 percent by volume, and that (b) Toxic materials in the atmosphere are within permissable concentrations; and (c) in the judgment of the inspector, the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Inspector's certificate. SAFE FOR FIRE: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) In the judgment of the Inspector, the residues are not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.	TANK SIZE	10000	GALLON TANK	CONDITIO	N SA	PE FOR FIRE	
In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or if in any doubt, remediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur. STANDARD SAFETY DESIGNATION SAFE FOR MEN: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume: and that (b) Toxic materials in the atmosphere are within permissable concentrations; and (c) in the judgment of the inspector, the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the inspector's certificate. SAFE FOR FIRE: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) In the judgment of the inspector, the residues are not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the inspector's crifficate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.	PACTE FAC	INC. HEREE PROCESSED, ILITY,	Y CERTIFIES THAT AND THEREFORE !	THE ABOVE DESTROYED AT	NUMBERED TO OUR PERMI	ANK HAS BEE TTED HAZARD	ous
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etmosphere is below 10 percent of the lower explosive limit; and that (b) In the judgment of the Inspector, the residues are not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector. The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.	SAFE FOR MEN: 19.5 percent by wo judgment of the \$	Means that in the colume: and that (binspector, the residence	compartment or space so } Toxic materials in the a dues are not capable of p	rtmosphere are wit	nin permissable (concentrations; and	i (c) in the
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CP5885

DAY OR NIGHT TELEPHONE (§10) 235-1393

CERTIFICATE

NO. 23106

CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

CUSTOMER SUPERIOR UNDER JOB NO. \$70175

LOCATION: RICHMOND DATE: 97/03/17 TIME: 15:05
COCATION.
TEST METHOD VISUAL GASTECH/1314 SMPN LAST PRODUCT ULG
This is to certify that I have personally determined that this tank is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.
TANK SIZE 6000 GALLON TANK CONDITION SAFE FOR FIRE
REMARKS: OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN 0.1% PROPERTY INC. HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN PEN. FROCESSED. AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS PROPERTY FOR INC. HAS THE APPROPRIATE PERMITS FOR, AND HAS ACCEPTED THE TANK PROPERTY TO US FOR PROCESSING.
In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or if in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.
STANDARD SAFETY DESIGNATION SAFE FOR MEN: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume: and that (b) Toxic materials in the atmosphere are within permissable concentrations; and (c) In the judgment of the Inspector, the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Inspector's certificate.
SAFE FOR FIRE: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) in the judgment of the inspector, the residues are not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of fire and white maintained as directed on the inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the inspector.
The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.
WEMRESENTATIVE TITLE INSPECTOR

CAY OF NIGHT TELEPHONE (510) 235-1393

CERTAFICATE

CERTIFIED SERVICES COMPANY

255 Parr Boulevard - Richmond, California 94801

NO. 23107

		·
	CUSTOMER	
5	UPERIOR	UNDER
	JOB NO.	
Ş	70175	

FOR: ERICKSON, INC. TANK NO. 19737
LOCATION: RICHMOND DATE: 97/03/17 TIME: 15:05
EST METHOD VISUAL GASTECH/1314 SMPN LAST PRODUCT D
This is to certify that I have personally determined that this tank is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.
TANK SIZE 2000 GALLON TANK CONDITION SAFE FOR FIRE
REMARKS: OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN 0.1% INC. HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN PROCESSED. AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS TABLETY. THE TABLETY. THE APPROPRIATE PERMITS FOR. AND HAS ACCEPTED THE TANK
ATREET TO US FOR PROCESSING.
in the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or if in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.
STANDARD SAFETY DESIGNATION SAFE FOR MEN. Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissable concentrations; and (c) In the judgment of the Inspector, the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Inspector's certificate.
SAFE FOR FIRE: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below to percent of the lower explosive limit; and that (b) in the judgment of the inspector, the residues are not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the inspector.
The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.
HETTILE INSPECTOR

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Keep away from sources of ignition. Always waar hardhats when working around U.G.S.T.'s 24 Hr. Contact Name Colinger Signature (510) 502 79												
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DÂY OR NIGHT TELEPHONE (510) 235-1393

CERTIFICATE

CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

NO. 13551

CUSTOMER	
SUPERIOR	UNDERGROUN
JOB NO.	
970366	

FOR: <u>FRICKSON, INC.</u> TANK NO. <u>19920</u>
LOCATION: RICHMOND, CA DATE: 04/07/97 TIME: 05:00 PM
ST METHOD VISUAL/GASTEC (02/LEL) METER LAST PRODUCT WASTE OIL
This is to certify that I have personally determined that this tank is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.
TANK SIZE 750 GALLONS CONDITION SAFE FOR FIRE
REMARKS: OXYGEN, 20.9%; LOWER EXPLOSIVE LIMIT (LEL), LESS THAN 0.1 % ERICKSON, INC. HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN CUT OPEN, PROCESSED, AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS WASTE FACILITY. ERICKSON, INC. HAS THE APPROPRIATE PERMITS FOR AND HAS ACCEPTED THE TANK SHIPPED TO US FOR PROCESSING.
In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or if in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur. STANDARD SAFETY DESIGNATION SAFE FOR MEN: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissable concentrations; and (c) in the judgment of the Inspector, the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Inspector's certificate. SAFE FOR FIRE: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) In the judgment of the Inspector, the residues are not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.
The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued. REPRESENTATIVE TITLE INSPECTOR