Geo Plexus, Inc.

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

FAX TRANSMITTAL COVER SHEET

DATE: 3-12-97

NUMBER OF PAGES INCLUDING THIS COVER SHEET: _____

VERIFICATION OF RECEIPT REQUIRED? YES _____ NO ✓

TO: MS. JULIET SHIN

COMPANY: ALAMEDA CO

BUSINESS PHONE: _____

FAX PHONE: 510 337 9335

SPECIAL FAX INSTRUCTIONS: _____

FROM: DAVID GLICK

PROJECT: REDWOOD GAS STATION ALBANY

BUSINESS PHONE: _____ FAX PHONE: _____

REMARKS: JOHN SUTTON FROM SUPERIOR UNDERGROUND TANK ASKED US TO FORWARD ANALYSIS TO YOU FOR INFO. HE WILL CALL DIRECT.

THANKS

DAVID

P.S. PHOTO OF WATER IS ON THE WAY.

IF THERE WERE ANY PROBLEMS WITH THIS TRANSMISSION PLEASE CALL:

1900 Wyatt Drive, Suite 1, Santa Clara, California 95054 Phone 408/987-0210 Fax 408/988-0815

8207

GeoPlexus, Inc.

1900 Wyatt Drive, Suite 1, Santa Clara, California 95054
Phone 408/987-0210 Fax 408/988-0815

CHAIN-OF-CUSTODY

AGP304

PROJECT NUMBER: C97-001

PROJECT NAME: REDWOOD GAS

Send Report Attention of: DAVID GLICK

Report Due: / /

Verbal Due: / /

Sample Number	Date	Time	Comp	Grab	Station Location	Number of Containers	Type of Containers	TPH GAS/BTEX/MTBE	TPH LEAD	TOTAL LEAD	BTEX/MTBE	Condition of Samples	Initial
T1-S1	3/5/97	11:20		/	TANK #1 SOUTH END, 13 FT.	1 GA.	6" BRASS TUBE	X		X		74126	
T1-S2		11:40		/	TANK #1 NORTH END, 12.5 FT.			X		X		74127	
T2-S1		11:30		/	TANK #2 SOUTH END, 13 FT.			X		X		74128	
T2-S2		11:55		/	TANK #2 NORTH END, 12.5 FT.			X		X		74129	
T3-S1		11:35		/	TANK #3 SOUTH END, 13 FT.			X		X		74130	
T3-S2		12:00		/	TANK #3 NORTH END, 12.5 FT.			X		X		74131	
T4-S1		12:05		/	TANK #4 EAST END, 11 FT.				X		X	74132	
T4-S2		12:15		/	TANK #4 WEST END, 11 FT.				X		X	74133	
D1-S1		12:35		/	DIESEL DISPENSOR 4 FT.				X		X	74134	
D2-S1		12:45		/	GASOLINE DISPENSOR 4 FT.			X		X		74135	
PL-S1		12:25		/	PRODUCT LINE 4 FT.			X	X	X		74136	

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	3/5/97 19:55	[signature]	3/5/97 1955
[signature]	3/6/97 1205	[signature]	3/6/97 1205
[signature]	3/6/97 1915	[signature]	3/6/97 1915

Remarks: STANDARD TURNAROUND

ICE/T ✓
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓

VOAS	O&G	METALS	OTHER

PRESERVATIVE
APPROPRIATE
CONTAINERS ✓

McCAMPBELL ANALYTICAL INC.

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

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: 03/06-03/07/97
	Client P.O:	Date Analyzed: 03/06-03/07/97

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)+	% 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
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

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.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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Tele: 510-798-1620 Fax: 510-798-1622

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: 03/06-03/10/97

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)

Lab ID	Client ID	Matrix	TPH(g)+	MTBE	Benzene	Toluene	Ethylbenzene	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
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.

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Geo Plexus, Inc. 1900 Wyatt Drive, Suite 1 Santa Clara, CA 95054	Client Project ID:# C97-001; Redwood Gas	Date Sampled: 03/05/97
		Date Received: 03/06/97
	Client Contact: David Glick	Date Extracted: 03/07/97
	Client P.O:	Date Analyzed: 03/10/97

Lead*

EPA analytical methods 6010/200.7, 239.2*

Lab ID	Client ID	Matrix	Extraction°	Lead*	% Recovery Surrogate
74126	T1-S1	S	TTLC	10	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	10	101
74135	D2-S1	S	TTLC	8.4	101
74136	PL-S1	S	TTLC	7.2	102
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		S	TTLC	3.0 mg/kg	
		W	TTLC	0.005 mg/L	
		---	STLC,TCLP	0.2 mg/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

° 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

& 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.

DHS Certification No. 1644

Edward Hamilton, Lab Director

3-17-1997 10:16AM FROM SUTS 1 510 551 7895

GeoPlexus, Inc.

CHAIN-OF-CUSTODY

8207 AGP304

1908 Wyatt Drive, Suite L, Santa Clara, California 95054
Phone 408/987-0210 Fax 408/988-0815

PROJECT NUMBER: C 97-001

PROJECT NAME: REDWOOD GAS

Send Report Attention of: DAVID GLICK

Report Due: / /

Verbal Due: / /

Sample Number	Date	Time	Comp	Grab	Station Location	Number of Containers	Type of Containers	TPH/gas, BTEX, Acetone	TPH-L	[redacted]	MTBE, BTX	TS, TDS, pH, EC						Condition of Samples	Initial
STK1-51	3/5/97	13:20		/	STOCKPILE	1 EA.	6" BRASS TUBE												
STK1-52		13:25		/			COMPOSITE											74137	
STK1-53		13:35		/				✓	✓		X								
STK1-54		13:40		/															
STK1-55		13:45		/			COMPOSITE											74138	
STK1-56		13:55		/															
STK1-57		14:00		/				✓	✓										
STK1-58		14:05		/															

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
J. [illegible]	3/5/97 14:55	[illegible]	3/5/97 1955
[illegible]	3/6/97 1705	[illegible]	3/6/97 1705
[illegible]	3/6/97 1918	[illegible]	3/6/97 1918

Remarks: STANDARD TURNAROUND

ICE/T ✓	ICE/T ✓	VOAS	O&G	METALS	OTHER
GOOD CONDITION ✓	GOOD CONDITION	PRESERVATIVE			
HEAD SPACE ABSENT ✓	HEAD SPACE ABSENT	APPROPRIATE CONTAINERS ✓			

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Geo Plexus, Inc. 1900 Wyatt Drive, Suite 1 Santa Clara, CA 95054	Client Project ID:# C97-001; Redwood Gas	Date Sampled: 03/05/97 Date Received: 03/06/97
	Client Contact: David Glick/John Sutfin	Date Extracted: 03/13/97
	Client P.O:	Date Analyzed: 03/13/97

RCI (Reactivity, Corrosivity & Ignitability)

CA Title 22, Section 66261.21-66261.23

Lab ID	Client ID	Matrix	Reactivity+	Corrosivity (pH)	Ignitability°
74137-38	STK1 (S1-S8)	S	negative	8.17 @ 25.6°C	negative

+ negative means no obvious reaction with water, no evolution of gas upon contact with water, appears to contain no reactive cyanide or sulfide (< ~ 5 mg/kg cyanide and 50 mg/kg sulfide by EPA SW-846, chapter 7, modified), and shows no indication of explosivity.

° negative for a soil means the absence of spontaneous combustion and the absence of flammability upon exposure to a naked flame.

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Geo Plexus, Inc. 1900 Wyatt Drive, Suite 1 Santa Clara, CA 95054	Client Project ID:# C97-001; Redwood Gas	Date Sampled: 03/05/97
		Date Received: 03/06/97
	Client Contact: David Glick/John Sutfin	Date Extracted: 03/13/97
	Client P.O:	Date Analyzed: 03/14/97

LUFT Metals*

EPA analytical methods 6010/200.7, 239.2+

Lab ID	Client ID	Matrix	Extraction°	Cadmium	Chromium	Lead	Nickel	Zinc	% Rec. Surrogate
74137-38	STK1 (S1-S8)	S	TTLC	ND	30	7.3	29	32	107

Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	S	TTLC	0.5 mg/kg	0.5	3.0	2.0	1.0
	W	TTLC	0.005 mg/L	0.005	0.005	0.05	0.05
	---	STLC,TCLP	0.01 mg/L	0.05	0.2	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 analyzed using EPA method 6010 (ICP)for soils, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples

° 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

▲ 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.

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