

SUBSURFACE ENVIRONMENTAL CORP



Memorandum

DATE: November 27, 1995
TO: Juliet Shin
FROM: Roxanne Harris
RE: 2301 Santa Clara, Alameda
CC: Wayne Chun

Attached are the results from the soil samples taken from the tank excavation and the stockpile. Please refer to the Chain of Custody for exact sample locations.

Sample results from the tank excavation are all non-detect except for chromium, nickel, and zinc. Stockpile results are non-detect for gasoline, BTEX, cadmium, and volatile halocarbons. There is some oil and grease at 83 parts per million (ppm), diesel at 21 ppm, chromium at 27 ppm, lead at 430 ppm, nickel at 16 ppm, and zinc at 45 ppm.

The property owner, Mr. Chun, has leased the property to a Christmas tree vendor and would like to close up this site ASAP. Please let us know if backfilling the tank excavation with clean import fill and hauling the stockpile off to a permitted disposal facility will be appropriate for closure of this tank.

Thank you.

McCAMPBELL ANALYTICAL INC.	110 2nd Avenue South, #D7, Pacheco, CA 94553 Tel: 510-798-1620 Fax: 510-798-1622
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Subsurface Environmental 1796 18th Street, Suite C San Francisco, CA 94107	Client Project ID: # 95202; 2301 Santa Clara Ave.	Date Sampled: 11/16/95
	Client Contact: Roxanne Harris	Date Received: 11/16/95
	Client P.O.:	Date Extracted: 11/17/95
		Date Analyzed: 11/17/95

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with BTEX*
EPA methods 5030, modified 8015, and 8020 or 802; California RWOCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g) ⁺	Benzene	Toluene	Ethylbenzene	Xylenes	% Rec. Surrogate
58740	2301-001TB	S	ND	ND	ND	ND	ND	111
58741	2301-002SP	S	ND	ND	ND	ND	ND	105

Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W	50 ug/L	0.5	0.5	0.5	0.5	0.5	
	S	1.0 mg/kg	0.005	0.005	0.005	0.005	0.005	

* water and vapor samples are reported in ug/L, soil 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.

DHS Certification No. 1644 *EH* Edward Hamilton, Lab Director

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	Client P.O.:	Date Extracted: 11/17/95
		Date Analyzed: 11/17-11/18/95

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
58740	2301-001TB	S	ND	104
58741	2301-002SP	S	21.g	106
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 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.

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	Client Contact: Roxanne Harris	Date Received: 11/16/95
	Client P.O.:	Date Extracted: 11/22/95
		Date Analyzed: 11/22/95

Total Recoverable Petroleum Hydrocarbons as Oil & Grease (with Silica Gel Clean-up) by Scanning IR Spectrometry*
EPA method 418.1 or 9073, Standard Methods 5520 C&F

Lab ID	Client ID	Matrix	TRPH ⁺
58740	2301-001TB	S	ND
58741	2301-002SP	S	83
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	1.0 mg/L
		S	10 mg/kg

* water samples are reported in mg/L and soils in mg/kg
 # surrogate diluted out of range
 + At the laboratory's discretion, one positive sample may be run by direct injection chromatography with FID detection. The following comments pertain to this GC result: a) gasoline-range compounds (C6-C12) are present; b) diesel range compounds (C10-C23) are present; c) oil-range compounds (> C18) are present; d) other petroleum solvent (?); e) isolated peaks; f) GC compounds are absent or insignificant relative to TRPH inferring that complex biologically derived molecules (lipids?) are the source of IR absorption; h) a lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment.

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	Client Contact: Ro-xanne Harris	Date Received: 11/16/95
	Client P.O.:	Date Extracted: 11/17/95
		Date Analyzed: 11/17/95

Volatile Halocarbons

EPA method 601 or 8010

Lab ID	58740	58741		
Client ID	2301-001TB	2301-002SP		
Matrix	S	S		
Compound	Concentration			
Bromodichloromethane	ND	ND		
Bromoform ^(b)	ND	ND		
Bromomethane	ND	ND		
Carbon Tetrachloride ^(c)	ND	ND		
Chlorobenzene	ND	ND		
Chloroethane	ND	ND		
2-Chloroethyl Vinyl Ether ^(d)	ND	ND		
Chloroform ^(e)	ND	ND		
Chloromethane	ND	ND		
Dibromochloromethane	ND	ND		
1,2-Dichlorobenzene	ND	ND		
1,3-Dichlorobenzene	ND	ND		
1,4-Dichlorobenzene	ND	ND		
Dichlorodifluoromethane	ND	ND		
1,1-Dichloroethane	ND	ND		
1,2-Dichloroethane	ND	ND		
1,1-Dichloroethene	ND	ND		
cis 1,2-Dichloroethene	ND	ND		
trans 1,2-Dichloroethene	ND	ND		
1,2-Dichloropropane	ND	ND		
cis 1,3-Dichloropropene	ND	ND		
trans 1,3-Dichloropropene	ND	ND		
Methylene Chloride ^(f)	ND < 10	ND < 10		
1,1,2,2-Tetrachloroethane	ND	ND		
Tetrachloroethene	ND	ND		
1,1,1-Trichloroethane	ND	ND		
1,1,2-Trichloroethane	ND	ND		
Trichloroethene	ND	ND		
Trichlorofluoromethane	ND	ND		
Vinyl Chloride ^(g)	ND	ND		
% Recovery Surrogate	102	100		

* water and vapor samples are reported in ug/L, soil samples in ug/kg and all TCLP extracts in ug/L.
 Reporting limit unless otherwise stated: water/TCLP extracts, ND < 0.5ug/L; soil, ND < 5ug/kg
 ND means not detected above the reporting limit; N/A means analysis not applicable to this analysis
 (b) tribromomethane; (c) tetrachloromethane; (d) (2-chloroethoxy) ethene; (e) trichloromethane; (f) dichloromethane; (g) chloroethane;
 (h) a lighter than water immiscible phase is present; (i) liquid sample that contains greater than ~ 5 vol. % sediment.

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		Date Analyzed: 11/16/95

LUFT Metals*

EPA analytical methods 6010/3007, 339.2*

Lab ID	Client ID	Matrix	Extraction ^o	Cadmium	Chromium	Lead	Nickel	Zinc	% Rec. Surrogate
58740	2301-00ITB	S	TTLIC	ND	26	ND	12	8.7	100
58741	2301-002SP	S	TTLIC	ND	27	430	16	45	98
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		S	TTLIC	0.5 mg/L	0.5	3.0	2.0	1.0	
		W	TTLIC	0.01 mg/kg	0.005	0.005	0.02	0.01	
		—	STLC, TCLP	0.01 mg/L	0.05	0.2	0.05	0.05	

* soil samples 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

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

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

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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5289A5EX87

SUBSURFACE ENVIRONMENTAL CORP.
 1796 18th Street, Suite C
 San Francisco, CA 94107
 Tele: (415)863-8100 Fax: (415)863-8156

CHAIN OF CUSTODY RECORD

Owner: Wayne Chun + Lily Chun
 Address: 269 Heron Drive, Pittsburg
 Phn: (510) 432-7793 Fax: _____


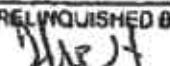
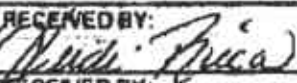
Sampler: Roxanne Harris
 Sampler Signature: 

Project Location: 2301 Santa Clara Ave
 Project #: 95202
 Bill To: Subsurface

TURN AROUND TIME: 5 DAY

ANALYSIS REQUEST

BTEX, GASOLINE	TPH as Diesel	Total Petroleum Oil & Grease	Total Petroleum Hydrocarbons 8010	LEAD/26 LEAD METALS	RCI	Other:
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Laboratory Number	Sample ID Number	Sampling		# of Containers	Type Containers	Matrix				Method Preserved			FIELD REMARKS:	BTEX, GASOLINE	TPH as Diesel	Total Petroleum Oil & Grease	Total Petroleum Hydrocarbons 8010	LEAD/26 LEAD METALS	RCI	Other:
		Date	Time			Water	Soil	Sludge	Other	HCL	HNO3	ICE								
	2301-001TB	11/16/95	10:15	1	BT		✓					✓	Bottom of tank excavation 4' below ground surface	✓	✓	✓	✓	✓		
	2301-002SP	11/16/95	10:18	1	BT		✓					✓	Stock pile of excavated material	✓	✓	✓	✓	✓		
RELINQUISHED BY:		Date	Time	RECEIVED BY:	NOTES: <u>Brown sand</u> <u>No visible contaminants</u>															
		11-16-95	4:50	HIGH																
RELINQUISHED BY:		Date	Time	RECEIVED BY:																
	SIS	11/16/95	05:45																	
RELINQUISHED BY:		Date	Time	RECEIVED BY:																

58740
58741

38135 X 1/2 - 70

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Inspection Form

1131 Harbor Bay Pkwy.
Suite 250
Alameda, CA 94502-6577
(510) 567-6700

II, III

white -env.health
yellow -facility
pink -files

Site ID 3838 Site Name Bill Chu's Station Today's Date 11/16/95

Site Address 2301 Santa Clara
City Alameda Zip 94501 Phone _____

MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

- Inspection Categories:
- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
 - II. Business Plans, Acute Hazardous Materials
 - III. Underground Tanks

II.A BUSINESS PLANS (Title 19)

- 1. Immediate Reporting 2703
- 2. Bus. Plan 910 25933(b)
- 3. 90 Days > 30 days 25933.7
- 4. Inventory Information 25934(a)
- 5. Inventory Complete 2730
- 6. Emergency Response 25501(b)
- 7. Training 25501(c)
- 8. Deficiency 25605(a)
- 9. Modification 25605(b)

II.B ACUTELY HAZ. MATLS

- 10. Registration Form Filed 25533(a)
- 11. Form Complete 25533(b)
- 12. RMPP Contents 25534(a)
- 13. Implement Sch. Req'd? (Y/N)
- 14. OnSite Conseq. Assess 25524(c)
- 15. Probable Risk Assessment 25534(d)
- 16. Persons Responsible 25534(g)
- 17. Certification 25534(f)
- 18. Exemption Request? (Y/N) 25536(b)
- 19. Trade Secret Requested? 25534

III. UNDERGROUND TANKS (Title 23)

- General
- 1. Permit Application 25284 (H&S)
 - 2. Pipeline Leak Detection 25292 (H&S)
 - 3. Records Maintenance 2712
 - 4. Release Report 2651
 - 5. Closure Plans 2670

- Monitoring for Existing Tanks
- 6. Method
 - 1) Monthly Test
 - 2) Daily Vadose Semi-annual groundwater One time test
 - 3) Daily Vadose One time test
 - 4) Monthly Groundwater One time test
 - 5) Daily Inventory Annual tank testing Cont pipe leak det Vadose/groundwater mon.
 - 6) Daily Inventory Annual tank testing Cont pipe leak det
 - 7) Weekly Tank Gauge Annual tank testing
 - 8) Annual Tank Testing Daily Inventory
 - 9) Other

- 7. Precs Tank Test Date: 2643
- 8. Inventory Rec. 2644
- 9. Soil Testing 2646
- 10. Ground Water 2647

- New Tanks
- 11. Monitor Plan 2632
 - 12. Access Secure 2634
 - 13. Plans Submit Date: 2711
 - 14. As Built Date: 2635

Rev 8/88

* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

Comments:

Came out to observe removal of 55-gallon waste oil UST. Tank was pulled to the top w/ sand. The tank appears to be a 55-gallon drum that was converted into a waste oil storage container. Drum is pitted & corroded w/ slight odor and no apparent holes. Some of the more shallow soil in pit appeared to be full w/ asphalt particles. The sample from beneath the drum was sandy w/ no odor or staining. No groundwater observed in pit. One sample (dissect) for possible reuse. Drum was upright.

JS

II, III

Contact: Roxanne Subsurface
 Title: Roxanne Davis
 Signature: Contractor

Inspector: Juliet Shin
 Signature: Juliet Shin