

ENVIRONMENTAL
PROTECTION
97 APR -7 PM 2:27

April 4, 1997

Mr. Tzu Ming Chen
c/o Ms. Janice Chow
Wo Lee Food Company
208 Jackson Street
Oakland, CA 94607

RE: Stockpiled Soil Sampling
Wo Lee Food Company
208 Jackson Street, Oakland, California
ACC Project No. 95-6238-1.2

Dear Mr. Chen:

On March 21, 1997, ACC Environmental Consultants, Inc., (ACC) conducted sampling of stockpiled soil located at 208 Jackson Street, Oakland, California (Figure 1). Soil sampling was requested by Ms. Jennifer Eberle, Alameda County Health Care Services Agency (ACHCSA), in a letter dated March 17, 1997.

BACKGROUND

Four USTs were removed from the site in March 1990 (Figure 2). Tanks #1 and #3 are reported to have contained diesel fuel and tanks #2 and #4 contained gasoline fuel. Analytical results indicated that concentrations of total petroleum hydrocarbons as diesel (TPHd) and benzene, toluene, ethylbenzene, and total xylenes (BTEX) were reported in the soil from the excavation of tank #1. Soils left in place in the other tank excavations contained relatively low concentrations of total petroleum hydrocarbons as gasoline (TPHg), TPHd, and BTEX. Overburden soils from the tank locations and a reported 125 cubic yards of soil were excavated and stockpiled on site.

In its letter dated March 17, 1997, the ACHCSA requested the soil be sampled with one discrete sample collected per 20 cubic yards and analyzed for TPHg, BTEX, and TPHd.

SCOPE OF WORK

ACC estimated the volume of soil currently stockpiled on site at 45 cubic yards. Therefore, one discrete sample was collected from representative locations at each end of the soil pile, designated SP-N (north end) and SP-S (south end). Each soil sample was collected with the use of a hand auger equipped with a 5-foot extension. The samples were collected in the center of the soil pile at a depth of approximately 4 feet below the surface of the soil pile. Both samples collected for analysis were preserved by capping each sample end with Teflon® sheeting and plastic end caps, attaching preprinted labels, and storing them in a pre-chilled, insulated container to be transported following chain of custody protocol to Chromalab, Inc., (Chromalab) a state-certified laboratory.

Mr. Tzu Ming Chen
April 4, 1997
Page 2

FINDINGS

Stockpiled soil was predominantly sand with small pieces of concrete or asphalt pavement. Soil at the bottom of the pile was moist and the soil pile was covered with vegetation. No odors or soil discoloration were noted during sampling.

Gasoline constituents were not detected in the two soil samples. Concentrations of petroleum hydrocarbons, reported as late-range diesel, were reported in samples SP-N and SP-S at 39 and 26 milligrams per kilogram (equivalent to parts per million), respectively. Results are summarized in Table 1.

Table 1 - Soil Sample Analytical Results

Sample	Date	TPHg (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Xylenes (mg/kg)	TPHd (mg/kg)
SP-N	3/21/97	<1	<0.005	<0.005	<0.005	<0.005	39
SP-S	3/21/97	<1	<0.005	<0.005	<0.005	<0.005	26

Notes: < = Less than the laboratory reporting limit indicated (see analytical reports)

DISCUSSION

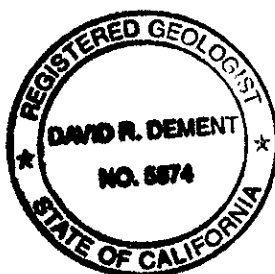
Stockpiled soil has been open to the sun and weather and has been aerating for 7 years. Analysis of two representative soil samples indicate only minor concentrations (less than 40 ppm) of longer-chain hydrocarbons in the late diesel to early motor oil range. ACC recommends that the stockpiled soil be used at the appropriate time to backfill the existing excavation at the site.

If you have any questions or comments, please call me at (510) 638-8400.

Sincerely,



David R. DeMent, RG
Senior Geologist



cc: Ms. Jennifer Eberle, ACHCSA

Attachments

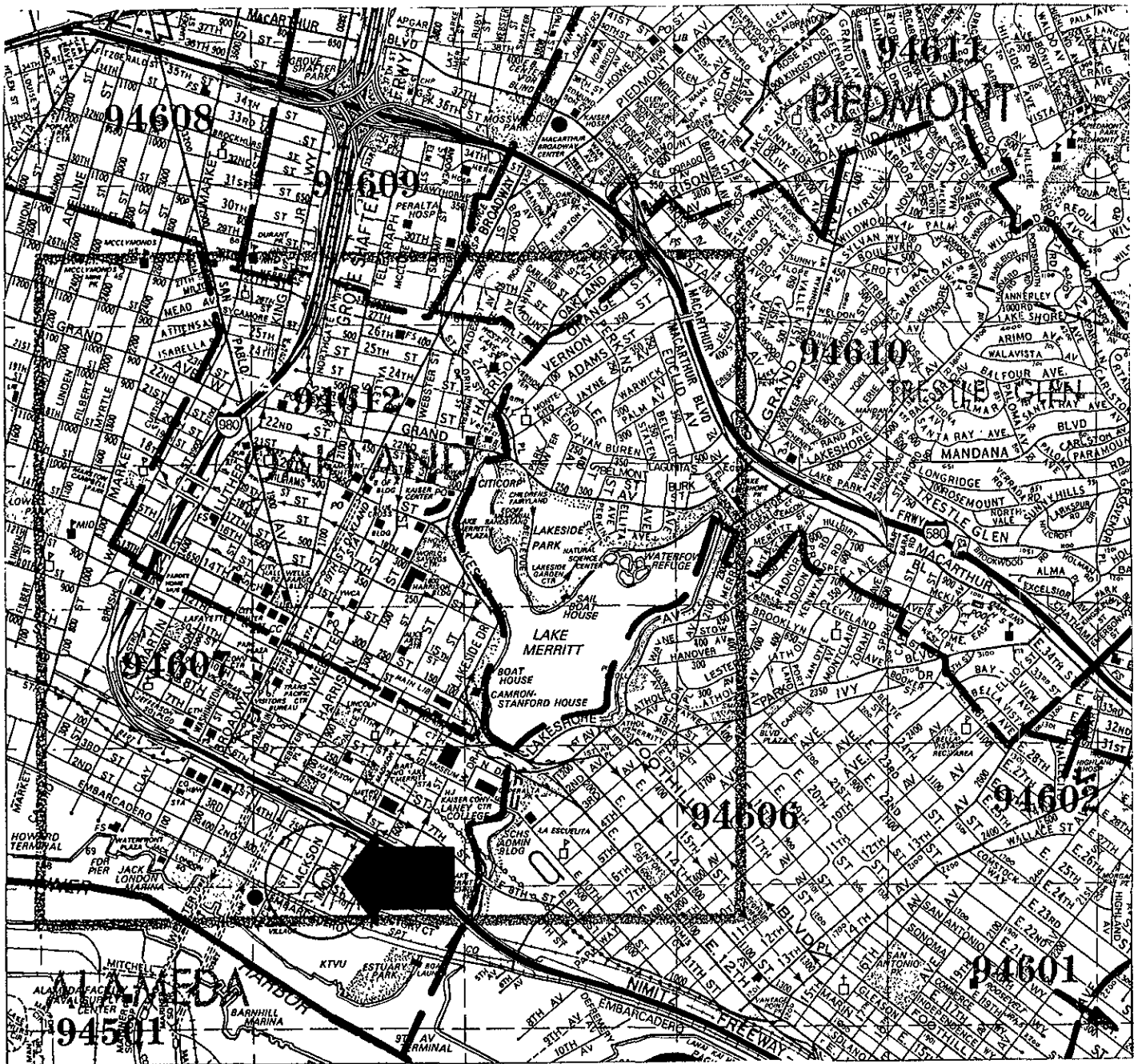


FIGURE 1: LOCATION MAP
 208 Jackson Street
 Oakland, California

Project No. 6249-1.0	Scale: 1" = 40'
Drawn By: JVC	Date: 10/30/95

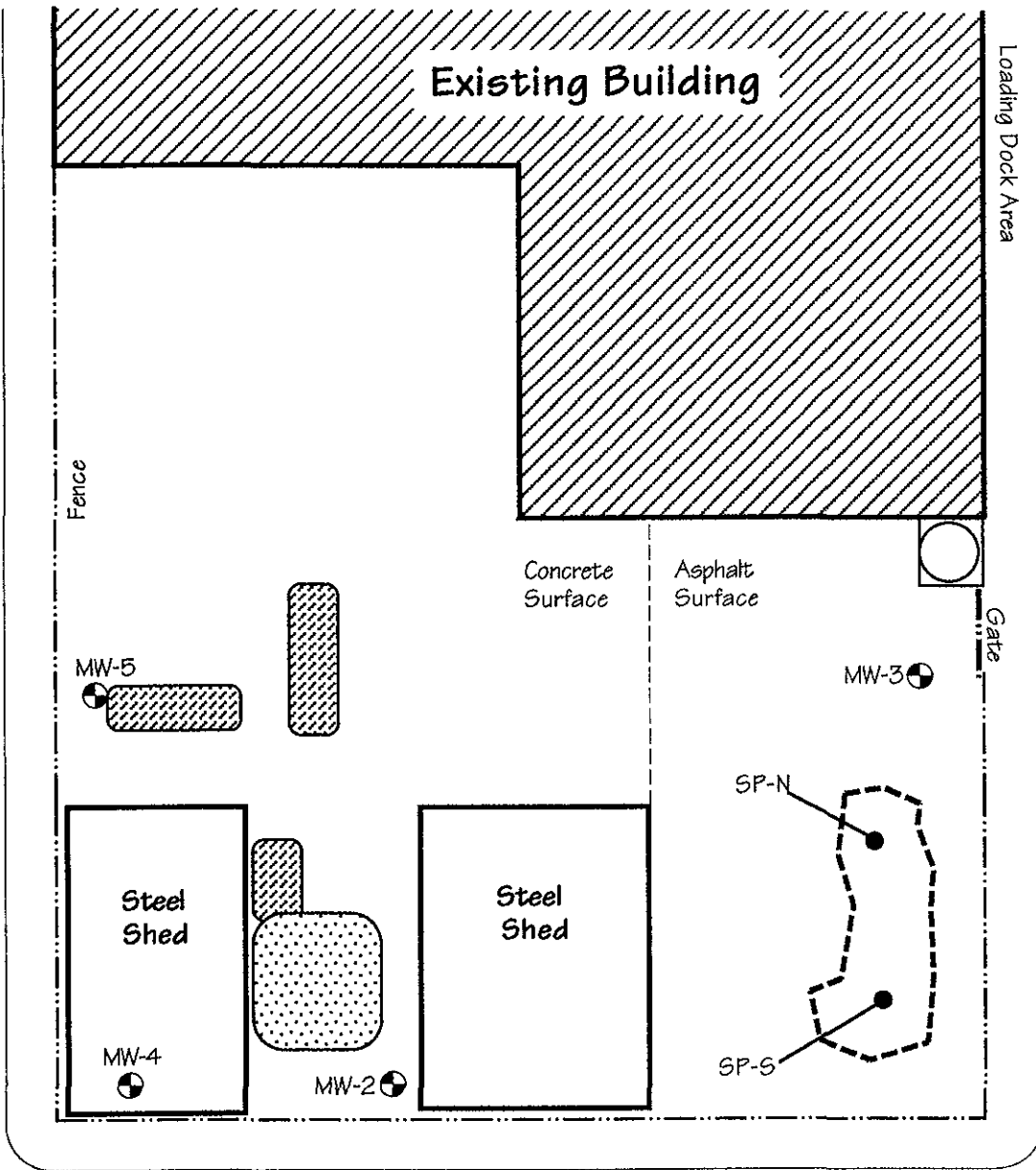
ACC Environmental Consultants
 7977 Capwell Drive, Suite 100
 Oakland, CA 94621
 (510)638-8400 Fax (510)638-8404



Source: Thomas Brothers Guide






Second Street

Jackson Street



Madison Street

Legend

-  - Open Excavation
-  - Former UST Location
- MW-2  - Existing Groundwater Monitoring Well
-  - Soil Stockpile
- SP-S  - Soil Sample

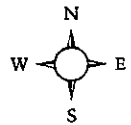
Title: **SITE Plan**
 208 Jackson Street
 Oakland, California

Figure No: 2 Scale: 1" = 40'

Drawn By: JVC/DRD Date: 3/30/97

Project No: 6249-1.0

ACC Environmental Consultants, Inc.
 7977 Capwell Drive, Suite 100
 Oakland, CA 94621
 (510)638-8400 Fax (510)638-8404



CHROMALAB, INC.

Environmental Services (SDB)

March 31, 1997

Submission #: 9703331

ACC ENVIRONMENTAL CONSULTANTS

Atten: David DeMent

Project: WO LEE FOOD CO.
Received: March 24, 1997

Project#: 6238-1.2

re: One sample for Gasoline BTEX analysis.
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: SP-N

Spl#: 122578

Matrix: SOIL

Sampled: March 21, 1997

Run#: 6006


Analyzed: March 29, 1997

<u>ANALYTE</u>	<u>RESULT</u> <u>(mg/Kg)</u>	<u>REPORTING</u> <u>LIMIT</u> <u>(mg/Kg)</u>	<u>BLANK</u> <u>RESULT</u> <u>(mg/Kg)</u>	<u>BLANK</u> <u>SPIKE</u> <u>(%)</u>	<u>DILUTION</u> <u>FACTOR</u>
GASOLINE	N.D.	1.0	N.D.	104	1
BENZENE	N.D.	0.0050	N.D.	102	1
TOLUENE	N.D.	0.0050	N.D.	98	1
ETHYL BENZENE	N.D.	0.0050	N.D.	106	1
XYLENES	N.D.	0.0050	N.D.	100	1

Note: Surrogate recovery was outside QA/QC limits due to matrix interference. See Surrogate Summary page.



Marianne Alexander
Gas/BTEX Supervisor



Chip Poalinelli
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

March 31, 1997

Submission #: 9703331

ACC ENVIRONMENTAL CONSULTANTS

Atten: David DeMent

Project: WO LEE FOOD CO.
Received: March 24, 1997

Project#: 6238-1.2

re: One sample for Gasoline BTEX analysis.
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: SP-S

Spl#: 122579


Matrix: SOIL

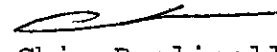
Sampled: March 21, 1997

Run#: 6006

Analyzed: March 29, 1997

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	1.0	N.D.	104	1
BENZENE	N.D.	0.0050	N.D.	102	1
TOLUENE	N.D.	0.0050	N.D.	98	1
ETHYL BENZENE	N.D.	0.0050	N.D.	106	1
XYLENES	N.D.	0.0050	N.D.	100	1


Marianne Alexander
Gas/BTEX Supervisor


Chip Poalinelli
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

March 31, 1997

Submission #: 9703331

ACC ENVIRONMENTAL CONSULTANTS

Atten: David DeMent

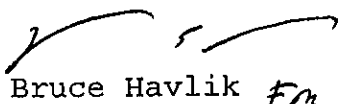
Project: WO LEE FOOD CO.
Received: March 24, 1997

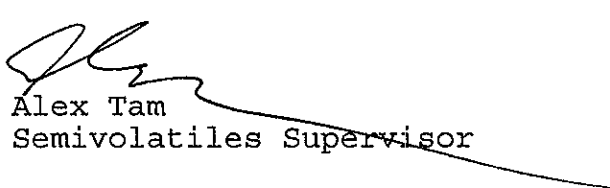
Project#: 6238-1.2

re: 2 samples for TPH - Diesel analysis.
Method: EPA 8015M

Sampled: March 21, 1997 Matrix: SOIL Extracted: March 27, 1997
Run#: 5972 Analyzed: March 31, 1997

Spl#	CLIENT SPL ID	DIESEL (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
122578	SP-N	39	2.0	N.D.	--	2
Note: Reported concentration is estimated due to overlapping fuel patterns.						
122579	SP-S	26	2.0	N.D.	--	2
Note: Hydrocarbon reported is in the late Diesel range, and does not match our Diesel standard.						


Bruce Havlik
Chemist


Alex Tam
Semivolatiles Supervisor

CHROMALAB, INC.

Environmental Services (SDB)

March 31, 1997

Submission #: 9703331

ACC ENVIRONMENTAL CONSULTANTS
7977 CAPWELL DRIVE, SUITE 100
OAKLAND, CA 94621

Attn: David DeMent

RE: Analysis for project WO LEE FOOD CO., number 6238-1.2.

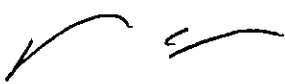
REPORTING INFORMATION


Samples were received cold and in good condition on March 24, 1997. They were refrigerated upon receipt and analyzed as described in the attached report. ChromaLab followed EPA or equivalent methods for all testing reported.

No discrepancies were observed or difficulties encountered with the testing.

Motor Oil was found in sample SP-N.

Motor Oil was found in sample SP-S.


Bruce Havlik *fm*
Chemist


Alex Tam
Semivolatiles Supervisor

CHROMALAB, INC.

Environmental Services (SDB)

March 31, 1997

Submission #: 9703331

ACC ENVIRONMENTAL CONSULTANTS

Atten: David DeMent

Project: WO LEE FOOD CO.
Received: March 24, 1997

Project#: 6238-1.2

re: **Surrogate** report for 2 samples for Gasoline BTEX analysis.
Method: SW846 8020A Nov 1990 / 8015Mod
Lab Run#: 6006
Matrix: SOIL

Sample#	Client Sample ID	Surrogate	% Recovered	Recovery Limits
122578-1	SP-N	TRIFLUOROTOLUENE	59.5	65-135
122578-1	SP-N	4-BROMOFLUOROBENZENE	51.2	65-135
122578-2	SP-N	TRIFLUOROTOLUENE	64.8	65-135
122578-2	SP-N	4-BROMOFLUOROBENZENE	58.6	65-135
122579-1	SP-S	TRIFLUOROTOLUENE	64.4	65-135
122579-1	SP-S	4-BROMOFLUOROBENZENE	56.2	65-135
122579-2	SP-S	TRIFLUOROTOLUENE	75.8	65-135
122579-2	SP-S	4-BROMOFLUOROBENZENE	72.5	65-135

Sample#	QC Sample Type	Surrogate	% Recovered	Recovery Limits
123661-1	Reagent blank (MDB)	TRIFLUOROTOLUENE	106	65-135
123661-1	Reagent blank (MDB)	4-BROMOFLUOROBENZENE	107	65-135
123662-1	Spiked blank (BSP)	TRIFLUOROTOLUENE	101	65-135
123662-1	Spiked blank (BSP)	4-BROMOFLUOROBENZENE	125	65-135
123663-1	Spiked blank duplicate (BSD)	TRIFLUOROTOLUENE	87.4	65-135
123663-1	Spiked blank duplicate (BSD)	4-BROMOFLUOROBENZENE	104	65-135
123664-1	Matrix spike (MS)	TRIFLUOROTOLUENE	68.7	65-135
123664-1	Matrix spike (MS)	4-BROMOFLUOROBENZENE	58.4	65-135
123665-1	Matrix spike duplicate (MSD)	TRIFLUOROTOLUENE	66.3	65-135
123665-1	Matrix spike duplicate (MSD)	4-BROMOFLUOROBENZENE	56.0	65-135

V132
QCSURR1229 ALEXANDM 31-Mar-97

CHROMALAB, INC.

Environmental Services (SDB) (DOHS 1094)

1220 Quarry Lane • Pleasanton, California 94566-4756
510/484-1919 • Facsimile 510/484-1096

Chain of Custody

DATE March 21 PAGE 1 OF 1

03331/122578-122579

32695

PROJ. MGR <u>Dave DeMant</u>					ANALYSIS REPORT														NUMBER OF CONTAINERS			
COMPANY <u>ACC Environmental Custs</u>					TPH - Gasoline (EPA 5030, 8015)	TPH - Gasoline (5030, 8015) w/BTEX (EPA 602, 8020)	TPH - Diesel/PEPH (EPA 3510/3550, 8015)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240, 524.2)	BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525)	TOTAL OIL & GREASE (EPA 5520, B+F, E+F)	PCB (EPA 608, 8080)	PESTICIDES (EPA 608, 8080)	TOTAL RECOVERABLE HYDROCARBONS (EPA 418.1)	LUFT METALS: Cd, Cr, Pb, Zn, Ni	CAM METALS (17)	PRIORITY POLLUTANT METALS (13)		TOTAL LEAD	EXTRACTION (TCLP, STLC)	
ADDRESS <u>7977 Cogwell Drive Oakland CA 94621</u>					SAMPLERS (SIGNATURE) <u>D. DeMant</u>					(PHONE NO.) <u>(510) 638-8400</u>					(FAX NO.) <u>(510) 638-8404</u>							
SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.																		
SP-N	3/21/97	11:25	Soil	Cold	X	X																1
SP-S	3/21/97	11:45	Soil	Cold	X	X																1

SUBM #: 9703331 REP: PM
CLIENT: ACC
DUE: 03/31/97
REF #: 32695

PROJECT INFORMATION		SAMPLE RECEIPT		RELINQUISHED BY 1		RELINQUISHED BY 2		RELINQUISHED BY 3	
PROJECT NAME <u>Wo Lee Food Co.</u>	TOTAL NO OF CONTAINERS <u>2</u>	HEAD SPACE	REC'D GOOD CONDITION/COLD	(SIGNATURE) <u>D. DeMant</u>	(TIME) <u>10:04</u>	(SIGNATURE)	(TIME)	(SIGNATURE) <u>B. Morrow</u>	(TIME) <u>3:24</u>
PROJECT NUMBER <u>6238-1.2</u>	CONFORMS TO RECORD	(PRINTED NAME) <u>ACC Environmental</u>	(COMPANY)	(PRINTED NAME)	(DATE)	(PRINTED NAME)	(DATE)	(PRINTED NAME) <u>Chromalab</u>	(DATE)
P.O.# <u>6238-1.2</u>	TAT <u>STANDARD 5-DAY</u>	24	48	72	OTHER	(COMPANY)	(COMPANY)	(COMPANY)	(COMPANY)
SPECIAL INSTRUCTIONS/COMMENTS				RECEIVED BY	RECEIVED BY 2	RECEIVED BY (LABORATORY) 3			
				(SIGNATURE) <u>B. Morrow</u>	(SIGNATURE) <u>Chris Rowley</u>	(SIGNATURE) <u>Chromalab</u>	(TIME) <u>3:24</u>	(TIME) <u>11:14</u>	(TIME) <u>3/24/97</u>
				(PRINTED NAME) <u>Chromalab</u>	(PRINTED NAME)	(PRINTED NAME)	(DATE)	(DATE)	(DATE)
				(COMPANY)	(COMPANY)	(LAB)			

CHROMALAB, INC.

Environmental Service (SOE)

Sample Receipt Checklist

Client Name: ACC Date/Time Received: 3/24/97 1004
Date / Time

Reference/Subm #: 32 L95/9703331 Received by: BM

Checklist completed by: Chris Rowley 3/25/97 Reviewed By: SA 3/25/97
Signature Date Initial/Date

Matrix: Soil Carrier name: Client C/L

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Container/Temp Blank temperature in compliance? Temp: 1.3 °C Yes No

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

~~Water~~ - pH acceptable upon receipt? adjusted? Checked by /chemist for VOAs

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action: _____

