Jennifer -

This is the Amco chemical sampling data.

Lynn

HAZARDOUS MATERIALS SAMPLE ANALYSIS REQUEST

All applicable items must be completed

1. HML No. To E147-E154 | Page of

Collector Address

4. Phone 415 540-2745

James McCammon

5. Priority 2
a. Authorized by

Date Sampled 4 August 1988 | 7. Time Sampled | Hours

Activity ☐ Enf ☑ Surv ☐ Site Mit ☐ Permitting ☐ Air Tech ☐ Other

8. Codes (fill in all applicable codes)

a. STC	003090
b. Region	4
c. TPC	
d. INDEX	6540
e. PCA	32035
f. SITE	
g. County	001

SAMPLING LOCATION

a. EPA ID No.

b. Site AMCO Chemical Corp

c. Address 1414 3rd St Oakland
Number Street City Zip

1. SAMPLES

a. ID	b. Collector's No.	c. HML No.	d. Type	Container e. Type	Container f. Size	g. Field Information
A.	JMAC01a	E147	oily soil	½ l	widemouth	transformer oil
B.	02a	E148	oily soil		glass	oily soil
C.	03a	E149	liquid			unknown - from fiber drum
D.	04a	E150	solid			boiler compound (?)
E.	05a	E151	semi solid			soap or grease
F.	06a	E152	liquid			maybe boiler compound
G.	07a	E153	solid			boiler compound (?)
H.	08a	E154	solid			FeCl

2. ANALYSIS REQUESTED

a. ☑ pH C, D, F G
b. ☑ Metal Scan C, D
c. ☐ Metals (Spec) H - test for ferric chloride
d. ☐ W.E.T.
f. ☑ PCB A, B, C, F, D, G
g. ☐ VOA
h. ☐ PAH
i. ☑ Phenols C, D, F
j. ☐ Carbamates
k. ☐ Ext. Org (Screeng)
l. ☐ Chlorinated Pesticides
m. ☐ Organo-P Pesticides
n. ☐ toxicity G
o. ☐

3. CHAIN OF CUSTODY

Signature	Name/Title	Inclusive Dates
[signature]	James McCammon AHMS	4/Aug/88 - 4/Aug/88
[signature]	VERNE EARL WOODSON/LABASST	8/4/88 - / /
		/ / - / /
		/ / - / /

4. SPECIAL REMARKS

5. RECEIVED BY [signature] a. Title HC III b. Date 8-4-88

6. SAMPLE ALLOCATION a. ☒ HML-Berkeley b. ☐ HML-SC c. ☐ AIHL d. ☐ Contract b. Date

7. ANALYSIS REQUESTED Please see above

FINAL

California Department of Health Services
Hazardous Materials Laboratory

HML# E150 to E152

GC/MS Analytical Laboratory Report

ollector's Sample Number(s): JMAC04a, JMAC06a
ollector: James McCammon
ampling Location: AMCO Chemical Corp.
1414 3rd Street, Oakland, CA
ate Received by GC/MS Laboratory: 12/15/88 from HML chemist: Mandy Mok
nalytical Procedure Used: EPA 8270

EPA Methods 625 and 8270 Phenol Report

CAS NUMBER	BASE-NEUTRAL COMPOUNDS	HML No.	E150	E152		MET BLANK	Detection Limit
		COL No.	JMAC04a	JMAC06a			
		UNITS	µg/g	µg/g		µg/g	µg/g
59-50-7	4-chloro-3-methylphenol		ND	ND		ND	10
95-57-8	2-chlorophenol		ND	ND		ND	10
120-83-2	2,4-dichlorophenol		ND	ND		ND	10
105-67-9	2,4-dimethylphenol		ND	ND		ND	10
51-28-5	2,4-dinitrophenol		ND	ND		ND	40
534-52-1	2-methyl-4,6-dinitrophenol		ND	ND		ND	20
88-75-5	2-nitrophenol		ND	ND		ND	20
100-02-7	4-nitrophenol		ND	ND		ND	20
87-86-5	pentachlorophenol		ND	ND		ND	20
108-95-2	phenol		ND	130		ND	10
88-06-2	2,4,6-trichlorophenol		ND	ND		ND	10

ote: ND = Not Detected NA = Not Analyzed

marks: Detection limits for E150 is 4 times of listed values due to dilution factor.

alyst signature: Jane Tang Date: 2/15/89
-Analyst/Review's signature: William J. Lum Date: 2-23-89
gnature of Supervising Chemist: William Lum Date: 2-23-89

/jt 02/15/89.PHE150S.JT/JT

California Department of Health Services
Hazardous Materials Laboratory

HML# E150 to E152

Q.C. Summary of Matrix Spike Duplicate Analysis

Collector's Name: James McCammon
Sampling Location: AMCO Chemical Corp
1414 3rd Street, Oakland, CA

Analysis for: Phenols Sample Spiked: HML No. E510 Matrix: Soil

COMPOUNDS	FOUND*	AMOUNT ** ADDED	AMOUNT DETECTED RUN 1	AMOUNT DETECTED RUN 2	AVERAGE RECOVERY		RPD	DET. LIMIT
UNITS	µg/g	µg/g	µg/g	µg/g	µg/g	%	%	µg/g
PHENOL	ND	200	161	182	172	86	12	10
2-CHLOROPHENOL	ND	200	174	190	182	91	9	10
4-CHLORO-3-METHYLPHENOL	ND	200	121	130	126	63	7	10
4-NITROPHENOL	ND	200	77	100	89	44	26	20
PENTACHLOROPHENOL	ND	200	119	140	130	65	16	20

Note: ND = Not Detected NA = Not Analyzed RPD = Relative Percent Difference

* Concentration found in Unspiked Sample
** Theoretical value (direct std not submitted)

$$= \frac{|\text{RUN 1} - \text{RUN 2}|}{(\text{RUN 1} + \text{RUN 2})/2} \times 100\%$$

Analyst: Marinda Mok / Jane Tang Supervising Chemist: William Lum

Signature: Jane Tang Date: 2/15/89

Signature: William S. Lum Date: Feb 23-89

California Department of Health Services
Hazardous Materials Laboratory

HML# E147 to E154

LABORATORY REPORT PARTIAL

PHENOLS

Collector's Name James McCammon
Sampling Location AMCO Chemical Corp. 1414 3rd St., Oakland

Date Collected 8/04/88
Date Received by Lab 8/04/88

Analytical Procedure: Sonication extraction

Reference: HML Methods

		HML Number -->	E150			METHOD BLANK	Detection Limit
		Collector's Sample Number -->	JMAC04a				
CAS #		Units -->	ug/g			ug/g	ug/g
108-95-2	Phenol		ND			ND	200
95-57-8	2-Chlorophenol						300
88-75-5	2-Nitrophenol						200
105-67-9	2,4-Dimethylphenol						200
120-83-2	2,4-Dichlorophenol						300
59-50-7	4-Chloro-3-methylphenol						300
88-06-2	2,4,6-Trichlorophenol						400
51-28-5	2,4-Dinitrophenol						600
100-02-7	4-Nitrophenol						500
534-52-1	2-Methyl-4,6-dinitrophenol						600
87-86-5	Pentachlorophenol						600
Number of Nontarget Peaks			35			ND	
Total Nontarget Concentration Calculated as 2,4,6-Trichlorophenol			37,000			ND	

Note: ND = Not Detected NA = Not Analyzed

Analyst: Mandy Mok

Signature 11/27/88 Date

Supervising Chemist: Howard S. Okamoto

Signature 1/4/89 Date

HO/wp PHENOL1

California Department of Health Services
Hazardous Materials Laboratory

HML# E147 to E154

LABORATORY REPORT

PHENOLS

Collector's Name James McCammon
Sampling Location Amco Chemical Corp.
1414 3rd St., Oakland

Date Collected 8/04/88
Date Received by Lab 8/04/88

Analytical Procedure: Sonication Extraction for solids. Adjust pH < 2, then extract w/ CH_2Cl_2. (For liquids)

Reference: HML Methods

	HML Number →	E149	E152		METHOD BLANK	* Detection Limit
	Collector's Sample Number →	JMAC03a	JMAC06a			
CAS #	Units →	ug/ml	ug/g		ppm	ppm
108-95-2	Phenol	ND	67		ND	1
95-57-8	2-Chlorophenol		ND			1.5
88-75-5	2-Nitrophenol					1
105-67-9	2,4-Dimethylphenol					1
120-83-2	2,4-Dichlorophenol					1.5
59-50-7	4-Chloro-3-methylphenol					1.5
88-06-2	2,4,6-Trichlorophenol		44			2
51-28-5	2,4-Dinitrophenol		ND			3
100-02-7	4-Nitrophenol					2.5
534-52-1	2-Methyl-4,6-dinitrophenol					3
87-86-5	Pentachlorophenol	3.2				3
Number of Nontarget Peaks		5	56		ND	
Total Nontarget Concentration Calculated as 2,4,6-Trichlorophenol		2.2	11,000		ND	

Note: ND = Not Detected NA = Not Analyzed

* The D.L. for E152 is 20 times greater than the stated D.L.

Analyst: Mandy Mak

Supervising Chemist: Howard S. Okamoto

Signature

11/17/88
Date

Signature

Date

HO/wp PHENOL1

Cali nia Department of Health Serv es FOR HML# E147 to

Hazardous Materials Laboratory

LABORATORY REPORT E154

QC SUMMARY

Collector's Name James McCammon
Sampling Location AMCO Chemical Corp.
1414 3rd St., Oakland

Analysis for Phenols

Matrix soil	MATRIX SPIKE DUPLICATE PERFORMED ON HML NO. E510						
	FOUND**	ADDED	RECOV. 1	RECOV. 2	AVER. RECOVERY		RPD
Units -->	ug/g	ug/g	ug/g	ug/g	ug/g	% RECOV.	%
Pentachlorophenol	ND	200	140	152	146	73.0	8.22
Phenol	"	"	165	177	171	85.5	7.02
2-Chlorophenol	17.4	"	164	176	170	85.0	7.06
4-Chloro-3-methylphenol	ND	"	149	160	154	77.0	7.14
4-nitrophenol	"	"	131	141	136	68.0	7.35

Comments:

ote: NA = Not Analyzed due to matrix interference.
ND = Not Detected.
** Concentration found in the unspiked sample.

RPD = Relative Percent Difference

$$= \frac{|\text{REC.1} - \text{REC.2}|}{(\text{REC.1} + \text{REC.2})/2} \times 100\%$$

nalyst: Mandy Mok/ Ven-Chi Liao
J. Mok
Signature
11/17/88
Date

Supervising Chemist:
Jamail Gonche
Howard S. Okamoto
1/4/89
Date

/wp OCREPT4

Cal[illegible]rnia Department of Health Ser[illegible]es FOR HML: E147 to E154

Hazardous Materials Laboratory

LABORATORY REPORT

QC SUMMARY

Collector's Name James McCammon
Sampling Location AMCO Chemical Corp, 1414 3rd St., Oakland

Analysis for Phenols

Matrix liquid	MATRIX SPIKE DUPLICATE PERFORMED ON HML NO. E466						
	FOUND**	ADDED	RECOV. 1	RECOV. 2	AVER. RECOVERY		RPD
Units →	ug/ml	ug/ml	ug/ml	ug/ml	ug/ml	% RECOV.	%
Pentachlorophenol	ND	10	7.15	9.01	8.08	80.8	23.0
Phenol			6.56	7.56	7.06	70.6	14.2
2-Chlorophenol			8.31	9.75	9.03	90.3	16.0
4-Chloro-3-methylphenol			7.54	9.06	8.30	83.0	18.3
4-nitrophenol			4.72	8.65	6.68	66.8	58.9

Comments:

Note: NA = Not Analyzed due to matrix interference.
ND = Not Detected.
** Concentration found in the unspiked sample.

RPD = Relative Percent Difference

$$= \frac{|\text{REC.1} - \text{REC.2}|}{(\text{REC.1} + \text{REC.2})/2} \times 100\%$$

Analyst: Mandy Mok/ Ven-Chi Liao

Signature

11/17/88
Date

Supervising Chemist:

Howard S. Okamoto

1/4/89
Date

HO/wo QCREPT4

Cali nia Department of Health Servi
azardous Materials Laboratory
2151 Berkeley Way, Berkeley 94704

HML = E147 to E154

Laboratory Report

Phenols--Non Target

Collector: James McCammon

Sampling Location: Amco Chemical Corp.
1414 3rd St.
Oakland

Date Collected: 8/04/88

Date Received by Lab: 8/04/88

Lab Results Status:

Partial ___ Final x Supple. ___

Analytical Procedure: Samples were extracted with methylene chloride, then screened by capillary column GC/FID.

Reference: EPA Method 8040

	HML Number -->	E149	E152		Method Blank	Detection Limit
	Collector's Sample Number -->	JMAC03a	JMAC06a			
	Matrix -->	liquid	solid		liq/solid	
CAS #	Units -->	ug/ml	ug/g		ppm	ppm
Number of Non Target (NT) Peaks		5	56		ND	2/40
Total Conc.Of NT Calc. as 2,4,6 -TCP *		2.2	11,000		ND	2/40

Note: ND = Not Detected

* 2,4,6-TCP = 2,4,6-Trichlorophenol

Sample Prep.: Mandy Mok 3/03/89

Analyst: [illegible] 3/3/89

[illegible] Farnail Garcles 3/3/89

Cali nia Department of Health Serv s
azardous Materials Laboratory
2151 Berkeley Way, Berkeley 94704

HML = E147 to E154

Laboratory Report

Phenols--Non Target

Collector: James McCammon

Sampling Location: AMCO Chemical Corp.
1414 3rd St.
Oakland

Date Collected: 8/04/88

Date Received by Lab: 8/04/88

Lab Results Status:

Partial ___ Final x Supple. ___

Analytical Procedure: Samples were extracted with methylene chloride, then screened by capillary column GC/FID.

Reference: EPA Method 8040

CAS =	HML Number -->	E150			Method Blank	Detection Limit
	Collector's Sample Number -->	JMAC04a				
	Matrix -->	solid			solid	
	Units -->	ug/g			ug/g	ug/g
Number of Non Target (NT) Peaks		35			ND	400
Total Conc.Of NT Calc. as 2,4,6 -TCP *		37000			ND	400

te: ND = Not Detected

* 2,4,6-TCP = 2,4,6-Trichlorophenol

mple Prep.: Mandy Mok — [signature] — 3/03/89

alyst: VAN-CHI LTD. — [signature] — 3/3/89

ervisor: Jarnail S. Garcha — Jarnail Garcha — 3/3/89

Signature — Date

-- phenolnt]

Califor[illegible] Department of Health Services
Haz[illegible]dous Materials Laboratory

HML# E149 to

GC/MS Analytical Laboratory Report

Collector's Sample Number(s): E149
Collector: James Mc Cammon
Sampling Location: AMCO Chemical Corporation
1414 3rd Street, Oakland, CA
Date Received by GC/MS Laboratory: 12/15/88 from HML chemist: J. Garcha
Analytical Procedure Used: Extractable organics - phenols

EPA Methods 625 and 8270 Base-Neutral/Acid Report

CAS NUMBER	BASE-NEUTRAL COMPOUNDS	HML No. / COL No. / UNITS	E149 / JMAC03a / µg/ml			MET BLANK / µg/ml	Detection Limit µg/ml
59-50-7	4-chloro-3-methylphenol		ND			ND	1.5
95-57-8	2-chlorophenol		ND			ND	0.5
120-83-2	2,4-dichlorophenol		ND			ND	1.0
105-67-9	2,4-dimethylphenol		ND			ND	1.0
51-28-5	2,4-dinitrophenol		ND			ND	7.5
534-52-1	2-methyl-4,6-dinitrophenol		ND			ND	5.0
88-75-5	2-nitrophenol		ND			ND	2.0
100-02-7	4-nitrophenol		ND			ND	2.5
87-86-5	pentachlorophenol		ND			ND	5.0
108-95-2	phenol		ND			ND	0.5
88-06-2	2,4,6-trichlorophenol		ND			ND	1.0

Note: ND = Not Detected NA = Not Analyzed

Remarks:

Analyst signature: Jane Tang Date: 1/10/89
Co-Analyst/Review's signature: William S. Chan Date: 2-1-89
Signature of Supervising Chemist: William S. Chan Date: 2-1-89

JT/jt PHE149R.JT 1/10/89

California Department of Health Services
Hazardous Materials Laboratory

HML# E149 to _____

Q.C. Summary of Matrix Spike Duplicate Analysis

Collector's Name: James McCammon
Sampling Location: AMCO Chemical Corporation
1414 3rd Street, Oakland, CA

Analysis for: Phenols Sample Spiked: HML No. E466 Matrix: Liquid

COMPOUNDS	FOUND*	AMOUNT ** ADDED	AMOUNT DETECTED RUN 1	AMOUNT DETECTED RUN 2	AVERAGE RECOVERY		RPD	DET. LIMIT
UNITS	µg/ml	µg/ml	µg/ml	µg/ml	µg/ml	%	%	µg/ml
PHENOL	ND	4.2	3.1	3.4	3.3	79	9	0.5
2-CHLOROPHENOL	ND	6.7	5.9	6.3	6.1	91	7	0.5
4-CHLORO-3-METHYLPHENOL	ND	8.1	6.7	7.4	7.1	88	10	1.5
4-NITROPHENOL	ND	4.1	3.5	3.1	3.3	80	12	2.5
PENTACHLOROPHENOL	ND	ND	ND	ND				5.0

Note: ND = Not Detected NA = Not Analyzed RPD = Relative Percent Difference

* Concentration found in Unspiked Sample
** Concentration found in direct std submitted

$$= \frac{|\text{RUN 1} - \text{RUN 2}|}{(\text{RUN 1} + \text{RUN 2})/2} \times 100\%$$

Analyst: Mandy Mok / Jane Tang Supervising Chemist: William Lum

Signature: Jane Tang Date: 1/10/89

Signature: William S Lum Date: 2-1-89

JT/it PHENOLMS 01/10/89 WP DISK

California Department of Health Services
Hazardous Materials Laboratory

HML# E147 to E153

LABORATORY REPORT

POLYCHLORINATED BIPHENYLS (PCB)

Collector's Name James Mc Cammar
Sampling Location AMCO Chemical Corp
1414 3rd St. Oakland

Date Collected 8/4/88
Date Received by Lab 8/4/88

Analytical Procedure: Samples were extracted with hexane/acetone solvents. Oil samples were diluted with hexane. The extracts were analyzed by gas chromatography using an electron-capture detector.

Reference: HML Methods

HML Number -->		E147		E148	E149			Detection Limit	
Collector's Sample Number -->		JMAC01a		JMAC02a	JMAC03a	BLANK			
CAS #	Units -->	mg/g	mg/g *	mg/g	mg/L **	mg/g	µg/L	mg/g	mg/L
12674-11-2	Aroclor 1016	ND	ND	ND	ND	ND	ND	1.0	100
11104-28-2	Aroclor 1221	ND	ND	ND	ND	ND	ND	1.0	100
11141-16-5	Aroclor 1232	ND	ND	ND	ND	ND	ND	1.0	100
53469-21-9	Aroclor 1242	ND	ND	ND	ND	ND	ND	1.0	100
12672-29-6	Aroclor 1248	ND	ND	ND	ND	ND	ND	1.0	100
11097-69-1	Aroclor 1254	ND	ND	ND	ND	ND	ND	1.0	100
11096-82-5	Aroclor 1260	ND	ND	ND	ND	ND	ND	1.0	100
37324-23-5	Aroclor 1262	ND	ND	ND	ND	ND	ND	1.0	100

Note: ND = Not Detected NA = Not Analyzed * Oil Sample ** aqueous Sample

Analyst: JAMES CHENG
James Cheng 11/18/88
Signature Date

Supervising Chemist: Howard S. Okamoto
Jamail Gaschke 11/22/88
Signature Date

O/wp PCB2

California Department of Health Services
Hazardous Materials Laboratory

HML# E147 to E153

p. 1 of 1

LABORATORY REPORT

POLYCHLORINATED BIPHENYLS (PCB)

ollector's Name James McCammar

ampling Location AMCO Chemical Corp, 1414 3rd St Oakland

Date Collected 8/4/88

Date Received by Lab 8/4/88

nalytical Procedure: Samples were extracted with hexane/acetone solvents. Oil samples were diluted with hexane. The extracts were analyzed by gas chromatography using an electron-capture detector.

eference: HML Methods

	HML Number —>	E150	E152	E153		Detection Limit
	Collector's Sample Number —>	JMAC04a	JMAC06a	JMAC07a	BLANK	
CAS #	Units —>	µg/g	µg/g	µg/g	µg/g	µg/g
12674-11-2	Aroclor 1016	ND	ND	ND	ND	1.0
11104-28-2	Aroclor 1221	ND	ND	ND	ND	1.0
11141-16-5	Aroclor 1232	ND	ND	ND	ND	1.0
53469-21-9	Aroclor 1242	ND	ND	ND	ND	1.0
12672-29-6	Aroclor 1248	ND	ND	ND	ND	1.0
11097-69-1	Aroclor 1254	ND	ND	ND	ND	1.0
11096-82-5	Aroclor 1260	ND	ND	ND	ND	1.0
37324-23-5	Aroclor 1262	ND	ND	ND	ND	1.0

ote: ND = Not Detected NA = Not Analyzed

nalyst: JAMES C. CHENG Supervising Chemist: Howard S. Okamoto

James C. Cheng 11/18/88 — Signature, Date

Garnail Garcha 11/22/88 — Signature, Date

O/wp PCB2

California Department of Health Services FOR HML# E147 to

Hazardous Materials Laboratory E153

LABORATORY REPORT

QC SUMMARY

ollector's Name James McCammar
ampling Location AMCO Chemical Corp
1414 3rd st. Oakland.

nalysis for PCB

Matrix liquid.	MATRIX SPIKE DUPLICATE PERFORMED ON HML NO. E 149						
	FOUND**	ADDED	RECOV. 1	RECOV. 2	AVER. RECOVERY		RPD
Units →	µg/l	µg/l	µg/l	µg/l	µg/l	% RECOV.	%
PCB 1254	NA	NA	NA	NA	NA	NA	NA

Comments: Insufficient Sample to make duplicate matrix spike.

Note: NA = Not Analyzed due to matrix interference.
ND = Not Detected.
** Concentration found in the unspiked sample.

RPD = Relative Percent Difference

$$= \frac{|\text{REC.1} - \text{REC.2}|}{(\text{REC.1} + \text{REC.2})/2} \times 100\%$$

Analyst: JAMES CHENG

James Cheng 11/18/88
Signature Date

Supervising Chemist: Y

Jarnail Gardea 11/22/88
Howard S. Okamoto Date

HO/wp QCREPT4

California Department of Health Services FOR HML# E147 to E153

Hazardous Materials Laboratory

LABORATORY REPORT

QC SUMMARY

Collector's Name James McCammer
Sampling Location AMCO Chemical Corp
1414 3rd st Oakland

Analysis for PCB

Matrix Soil	MATRIX SPIKE DUPLICATE PERFORMED ON HML NO. E148						
	FOUND**	ADDED	RECOV. 1	RECOV. 2	AVER. RECOVERY		RPD
Units →	µg/g	µg/g	µg/g	µg/g	µg/g	% RECOV.	%
PCB 1254	NA	NA	NA	NA	NA	NA	NA

Comments: Due to high background interference, no accurate data for duplicate matrix spike can be obtained. The other QC in this package are: 78.7% for method standard recovery, and QC sample measured as 39.0 µg/g compared to the true value of 33.0 µg/g.

Note: NA = Not Analyzed due to matrix interference. RPD = Relative Percent Difference
ND = Not Detected.
** Concentration found in the unspiked sample.

$$= \frac{|\text{REC.1} - \text{REC.2}|}{(\text{REC.1} + \text{REC.2})/2} \times 100\%$$

Analyst: JAMES CHENG
James Cheng 11/18/88
Signature Date

Supervising Chemist:
Howard S. Okamoto 11/22/88
Howard S. Okamoto Date

HO/wp QCREPT4

California Department of Health Services
Hazardous Materials Laboratory

HML# E147 to E148

LABORATORY REPORT Supplemental p. 1 of 1

Collector's Name James McCasman
Sampling Location Asco Chemical Corp
12114 3rd St Oakland

Date Collected 4 Aug. 1988
Date Received by Lab 11/17/88

Analytical Procedure: Freon Extraction

Reference: HML Method

CAS #	HML Number →	E147	E148		METHOD BLANK	Detection Limit
	Collector's Sample Number →	JMAC01	JMAC02			
	Units →	%	%		%	
	oil & grease	28	27		ND	0.1%

Note: ND = Not Detected NA = Not Analyzed

Analyst: Ja Lamchew
Signature
12-6-88
Date

Supervising Chemist: Howard S. Okamoto
Signature
12/8/88
Date

HO/wp GENERAL1

California Department of Health Services FOR HML# E147 to

Hazardous Materials Laboratory

E148

LABORATORY REPORT

p. ___ of ___

QC SUMMARY

Collector's Name James McCamman
Sampling Location AMCO chemical Corp
1414 3rd St. Oakland

Analysis for oil & grease

Matrix Soil	MATRIX SPIKE DUPLICATE PERFORMED ON HML NO. E148						
	FOUND**	ADDED	RECOV. 1	RECOV. 2	AVER. RECOVERY		RPD
Units -->	g	g	g	g	g	% RECOV.	%
oil & grease	5.36	1.00	0.86	0.89	0.88	88	3.4

Comments:

Note: NA = Not Analyzed due to matrix interference.
ND = Not Detected.
** Concentration found in the unspiked sample.

RPD = Relative Percent Difference

$$= \frac{|\ REC.1 - REC.2\ |}{(REC.1 + REC.2)/2} \times 100\%$$

Analyst: Yalun Chou

Yalun Chou 12-6-88
Signature Date

Supervising Chemist:

Howard S. Okamoto 12/8/88
Howard S. Okamoto Date

HO/wp QCREPT4

HAZARDOUS MATERIALS
SAMPLE ANALYSIS REQUEST

All applicable items must be completed

1. HML No. E147 To E154 — Page of

Collector, Address: James McCammon — Phone 415 540-2745

5. Priority [2]
a. Authorized by

Date Sampled: 4 August 1988 — 7. Time Sampled: . Hours

Activity: ☐ Enf ☑ Surv ☐ Site Mit ☐ Permitting ☐ Air Tech ☐ Other

8. Codes (fill in all applicable codes)

a. STC	003090
b. Region	4
c. TPC	
d. INDEX	6540
e. PCA	32035
f. SITE	
g. County	001

SAMPLING LOCATION — a. EPA ID No.

b. Site: AMCO Chemical Corp

c. Address: 1414 3rd St Oakland (Number, Street, City, Zip)

1. SAMPLES

a. ID	b. Collector's No.	c. HML No.	d. Type	e. Container Type	f. Container Size	g. Field Information
A.	JMAC01a	E147	oily soil	½ l	widemouth	transformer oil
B.	02a	E148	oily soil	↓	glass	oily soil
C.	03a	E149	liquid	↓	↓	unknown - from filter drum
D.	04a	E150	solid	↓	↓	boiler compound (?)
E.	05a	E151	semi solid	↓	↓	soap or grease
F.	06a	E152	liquid	↓	↓	maybe boiler compound
G.	07a	E153	solid	↓	↓	boiler compound (?)
H.	08a	E154	solid	↓	↓	Fe Cl

ANALYSIS REQUESTED

a. ☑ pH C, D, F, G
b. ☑ Metal Scan C, D
c. ☐ Metals (Spec) DAH H - test for ferric chloride
d. ☐ W.E.T.
f. ☑ PCB A, B, C, F, D, G
g. ☐ VOA
h. ☐ PAH
i. ☑ Phenols C, D, F
j. ☐ Carbamates
k. ☐ Ext. Org (Screeng)
l. ☐ Chlorinated Pesticides
m. ☐ Organo-P Pesticides
n. ☐ toxicity G
o. ☐

CHAIN OF CUSTODY

Signature	Name/Title	Inclusive Dates
[signature]	James McCammon AHMS	4 Aug 88 - 4 Aug 88
[signature]	VERNE EARL NOUDSON / LAB ASST	8/4/88 - / /
		/ / - / /
		/ / - / /

SPECIAL REMARKS

RECEIVED BY [signature] a. Title HC III b. Date 8-4-88

SAMPLE ALLOCATION a. ☒ HML-Berkeley b. ☐ HML-SC c. ☐ AIHL d. ☐ Contract b. Date

ANALYSIS REQUESTED Please see above

FIELD

LAB

8002 (Rev 7/87) — Original-Lab • Duplicate-File • Triplicate-Inspector — NLY (HML)

CALIFORNIA DEPARTMENT OF HEALTH SERVICES
HAZARDOUS MATERIALS LABORATORY SECTION

HML#. E147 ....TO
HML#. E154 ......

LABORATORY REPORT FOR TOTAL METAL ANALYSIS

COLLECTOR'S NAME: J MCCOMMOB
SAMPLE LOCATION : AMCO CHEMICAL CORP
OAKLAND

COLLECTOR'S SAMPLE NO. : JMAC04A
ACTIVITY :
DATE RECEIVED : 8-4=88

ANALYTICAL PROCEDURE : SAMPLES ARE DIGESTED WITH CONCENTRATED NITRIC ACID OVER A HOT PLATE. THE DIGESTED SAMPLES ARE FILTERED AND MADE TO 100 ML WITH 5% NITRIC ACID IN DISTILLED DEIONIZED WATER. METAL ANALYSIS OF THE DIGEST IS BY ICPAES. RESULTS ARE REPORTED AS UG/GRAM.

HML NUMBER :		E150
COLLECT SAMP #:		JMAC04A
SAMPLE TYPE :		SOLID
AG-SILVER		0.13
AS-ARSENIC	<	0.34
BA-BARIUM		37.7
BE-BERYLLIUM		0.02
CD-CADMIUM		2.36
CO-COBALT		5.42
CR-CHROMIUM		31.0
CU-COPPER		32.9
MO-MOLYBDENUM		2.03
NI-NICKEL		19.9
PB-LEAD		29.4
SB-ANTIMONY		2.10
SE-SELENIUM	<	0.61
V -VANADIUM	<	0.05
ZN-ZINC		63.0
TL-THALLIUM		40.3

ppm

NOTE: < = BELOW DETECTION LIMIT OF INSTRUMENT (***)=NOT DETERMINED BY ICP

[signature] 10/12/88
ANALYST'S SIGNATURE DATE

[signature] 10/17/88
MILAD S. ISKANDER, SUPERVISOR DATE

[signature] ICP 10/11/88.

MLCRev.) 10/13/88

Note: JMAC03A not done - insufficient sample
HML E149

California Department of Health Services
Hazardous Materials Laboratory

HML#: E147
To: E154

LABORATORY REPORT

Collector's Name: James Mc Cammon
Location: AMCO Chemical Corp.
1414 3rd Street, Oakland, Ca.

Date Received: 8/4/88
Collector's #: JMAC001A
to JMAC008A

Analytical Procedure Used: For solid samples, DI water was added to the sample, mixed, and allowed to equilibrate prior to analysis. pH determined using pH meter Accumet 825 MP Calibrated with pH buffers 4, 7, and 10.

Reference: HML Methods Manual

Analysis Results:

HML NO.	COLLECTOR'S SAMPLE NO.	TYPE OF SAMPLE	pH	% DILUTION
E149	JMAC003A	Liquid	6.24	
E150	JMAC004A	Solid	12.81	33.3
E152	JMAC006A	Liquid	13.88	33.3
E153	JMAC007A	Solid	10.32	33.3

Signatures:

Analyst — 8/17/88 Date
mc (Rev.) 10/13/88

Milad Iskander, Supervisor — 10/14/88 Date

California Department of Health Services
Hazardous Materials Laboratory

HML#: E147
To: E154

LABORATORY REPORT

Collector's Name: James McCammon
Location: AMCO Chemical Corp.
1414 3rd Street Oakland

Date Received: 8/4/88
Collector's #: JMAC1a
to: JMAC8a

Analytical Procedure Used: Sample was extracted with deionized water. A filter paper was impregnated with the extract. A drop of potassium ferrocyanide solution was placed on the filter paper. A positive result will give a prussian blue ring or circle.

Reference: Spot Tests in Inorganic Analysis

Analysis Results:

HML NO.	COLLECTOR'S SAMPLE NO.	TYPE OF SAMPLE	RESULT
E150	JMAC4a	solid	negative

Signatures:

Gaida Ileyay — Analyst — 10-7-88 Date

MS (Rev.) 10/13/88

Milad Iskander — Supervisor — 10/14/88 Date

California Department of Health Services
Hazardous Materials Laboratory
LABORATORY REPORT
AMENDED

HML#: E147
To: E154

Collector's Name: James McCammon
Location: AMCO Chemical Corp.
1414 3rd Street Oakland

Date Received: 8/4/88
Collector's #: JMAC1a
to: JMAC8a

Analytical Procedure Used: Sample was extracted with deionized water. A filter paper was impregnated with the extract. A drop of potassium ferrocyanide solution was placed on the filter paper. A positive result will give a prussian blue ring or circle.

Reference: Spot Tests in Inorganic Analysis

Analysis Results:

HML NO.	COLLECTOR'S SAMPLE NO.	TYPE OF SAMPLE	RESULT
E154	JMAC8a	solid	negative

Signatures:

Zaida Olegay
Analyst

1/6/88
Date

Milad Iskander
Supervisor

1/10/89
Date