DRAFT

Table 1. Laboratory Results of Chemical Analyses of Soil Samples[1]

Boring No.	Sample Depth (feet)	Date Sampled	Total Petroleum Hydrocarbons (as gasoline)	Benzene	Ethyl-Benzene	Toluene	Xylenes
B1	20.0 - 20.5	5/26/87	430	12	NA[2]	ND[3]	ND
B2	15.0 - 15.5	5/26/87	3,700,000	9,800	NA	22,000	74,000
B2	20.0 - 20.5	5/26/87	2,400,000	1,600	NA	5,500	42,000
B2	25.0 - 25.5	5/26/87	16,000,000	48,000	NA	110,000	190,000
B3	15.5 - 16.0	10/9/87	ND	0.5	ND	0.6	ND
B3	20.5 - 21.0	10/9/87	ND	0.5	ND	0.2	ND
B3	25.5 - 26.0	10/9/87	2,020,000	5,800	14,600	13,400	50,000
B3	30.0 - 30.5	10/9/87	2,500,000	14,000	21,000	10,000	47,100
B3	35.5 - 36.0	10/9/87	31,000	350	350	450	850
B4	15.5 - 16.0	10/9/87	ND	ND	ND	ND	ND
B4	20.5 - 21.0	10/9/87	ND	ND	ND	3.0	ND
B4	25.5 - 26.0	10/9/87	120	11.7	1.0	ND	24.3
B4	30.0 - 30.5	10/9/87	1,400	740	356	62	606
B4	35.5 - 36.0	10/9/87	860	525	29.5	14.0	198
B5	20.5 - 21.0	10/9/87	ND	ND	ND	0.5	ND
B5	25.5 - 26.0	10/9/87	2,800,000	8,300	28,000	10,000	197,000
B5	30.0 - 30.5	10/9/87	29,000	21.0	270	100	880
B5	35.5 - 36.0	10/9/87	470,000	13,047	1,232	492	6,594
B6	21.0 - 21.5	10/8/87	ND	ND	ND	ND	ND
B6	30.0 - 30.5	10/8/87	870,000	4,800	5,600	6,000	24,900
B7	25.5 - 26.0	10/8/87	1,100	4.9	1.9	0.7	3.4
B8	20.5 - 21.0	10/8/87	ND	ND	ND	ND	ND
B8	35.5 - 36.0	10/8/87	330	1.4	1.0	18.7	4.5

1 Concentrations in parts per billion
2 Not analyzed
3 Not detected

WESCO Laboratories

Report Date:	08-Mar-88	Client Contract/PO:	9382,020.01
Client:	Harding Lawson Associates	Date Sampled:	29-Feb-88
Attn:	Pete Mote	Site:	Oakland, Chinatown
Sampled by:	W. Godwin	Date Received:	29-Feb-88
Submitted by:	W. Godwin	Extract/Digest/Purge Date:	01-Mar-88
Preservatives:	none	Analysis Completion Date:	01-Mar-88
Analyst:	Oram	Hold Time:	1 day
WESCO JOB #:	HLA 0828-L		
Analytical Method:	EPA 3550/8015		

MATRIX: SOIL

LAB #	CLIENT ID	Diesel (mg/kg)	Kerosene (mg/kg)	Motor oil (mg/kg)	Detection Limit(mg/kg)
8-2032	2908	N.D.	495	470	10
8-2033	2909	N.D.	75	81	10
8-2034	2910	480	N.D.	N.D.	10

N.D.: Not Detected

Analytical Supervisor

14 Galli Drive, Suite A
Novato, California 94949 415 883-6425
A Division of Western Ecological Services Company, Inc.

BLANK, SPIKE DUPLICATE AND SPIKE REPORT JOB # HLA 0828-L
METHOD : EPA 3550/8015

COMPOUND Sample #	Blank (mg/l)	Spike Duplicate % deviation 8-1986 NCP 0812-L	Spike % recovery 8-1986 NCP 0812-L
Diesel	N.D.	48	51*

N.D.: Not Detected
* : Matrix Interference

Analytical Supervisor

Report Date:	08-Mar-88	Client Contract/PO:	9382,020.01
Client:	Harding Lawson Associates	Date Sampled:	29-Feb-88
Attn:	Pete Mote	Site:	Oakland, Chinatown
Sampled by:	W. Godwin	Date Received:	29-Feb-88
Submitted by:	W. Godwin	Extract/Digest/Purge Date:	29-Feb-88
Preservatives:	none	Analysis Completion Date:	29-Feb-88
Analyst:	Arntzen/Lewis	Hold Time:	0 days
WESCO JOB #:	HLA 0828-L		
Analytical Method:	EPA 5030/8015		

LAB #: 8-2032 MATRIX: SOIL
CLIENT'S ID: 2908

COMPOUND	RESULT (ug/kg)	Detection Limit (ug/kg)
Gasoline	1600000*	50000

QUALITY CONTROL DATA
Surrogate Spike % Recovery
Fluorobenzene 63 %

LAB #: 8-2033 MATRIX: SOIL
CLIENT'S ID: 2909

COMPOUND	RESULT (ug/kg)	Detection Limit (ug/kg)
Gasoline	390000*	50000

QUALITY CONTROL DATA
Surrogate Spike % Recovery
Fluorobenzene 77 %

LAB #: 8-2034 MATRIX: SOIL
CLIENT'S ID: 2910

COMPOUND	RESULT (ug/kg)	Detection Limit (ug/kg)
Gasoline	1100000*	100000

QUALITY CONTROL DATA
Surrogate Spike % Recovery
Fluorobenzene 68 %

* : Petroleum hydrocarbon quantified as gasoline.
N.D.: Not Detected

Analytical Supervisor

BLANK, SPIKE DUPLICATE AND SPIKE REPORT FOR JOB # HLA 0828-L
METHOD: EPA 5030/8015

COMPOUND	Blank ug/l	Spike Duplicate % deviation 8-1933 AQS 0831-L	Spike % recovery 8-1933 AQS 0831-L
Sample #			
Benzene----------	N.D.	12	124
Toluene----------	N.D.	17	121
p-Xylene----------	N.D.	2	120
Gasoline----------	N.D.	12	55
QUALITY CONTROL DATA			
Surrogate Spike % Recovery			
Fluorobenzene	99 %	118 %	109%

N.D.: Not Detected

Analytical Supervisor

WESCO Laboratories

ENVIRONMENTAL SERVICES DIVISION

Report Date: 10-Mar-88
Client: Harding Lawson Associates
Attn: Peter Mote
Sampled by: W. Godwin
Submitted by: W. Godwin
Preservatives: none
Analyst: Oram
WESCO JOB #: HLA 0825-L
Analytical Method: EPA 8080

Client Contract/PO: 9382,020.01
Date Sampled: 24-Feb-88
Site: Oakland, Chinatown
Date Received: 24-Feb-88
Extract/Digest/Purge Date: 26-Feb-88
Analysis Completion Date: 29-Feb-88
Hold Time: 2 days

LAB #: 8-1990
CLIENT'S ID: 2407
MATRIX: SOIL

COMPOUND	Result (ug/kg)	Detection Limit (ug/kg)
Alpha-BHC	N.D.	8.0
Beta-BHC	N.D.	8.0
Lindane	N.D.	8.0
Delta-BHC	N.D.	8.0
Heptachlor	N.D.	8.0
Aldrin	N.D.	8.0
Heptachlor Epoxide	N.D.	8.0
Endosulfan I	N.D.	8.0
DDE	N.D.	16.0
Dieldrin	N.D.	16.0
Endrin	N.D.	16.0
Endosulfan II	N.D.	16.0
4,4-DDD	N.D.	16.0
Endrin Aldehyde	N.D.	16.0
4,4-DDT	N.D.	16.0
Endosulfan Sulfate	N.D.	16.0
Aroclor 1016	N.D.	80.0
Aroclor 1221	N.D.	80.0
Aroclor 1232	N.D.	80.0
Aroclor 1242	N.D.	80.0
Aroclor 1248	N.D.	80.0
Aroclor 1254	N.D.	160.0
Aroclor 1260	N.D.	160.0
Chlordane	N.D.	80.0
Toxaphene	N.D.	160.0
Methoxychlor	N.D.	80.0

QUALITY CONTROL DATA
Surrogate Spike % Recovery
2,4,5,6-TCMX 101 %

N.D.: Not Detected
n.d.: not determined

Analytical Supervisor

14 Galli Drive, Suite A
Novato, California 94949 415 883-6425
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BLANK, SPIKE DUPLICATE AND SPIKE REPORT JOB # HLA 0825-L
METHOD: EPA 8080

COMPOUND	Blank (ug/l)	Spike Duplicate % deviation 8-1990	Spike % recovery 8-1990
Sample #			
Lindane	N.D.	11	78
Heptachlor	N.D.	N.S.	N.S.
Aldrin	N.D.	2	101
Endrin	N.D.	N.S.	N.S.
QUALITY CONTROL DATA			
Surrogate Spike % Recovery			
2,4,5,6-TCMX	107%	93 %	104 %

N.D.: Not Detected
n.d.: not determined
N.S.: Not Spiked

Analytical Supervisor

Report Date: 10-Mar-88
Client: Harding Lawson Associates
Attn: Peter Mote
Sampled by: W. Godwin
Submitted by: W. Godwin
Preservatives: none
Analyst: Arntzen/Lewis
WESCO JOB #: HLA 0825-L
Analytical Method: EPA 8010

Client Contract/PO: 9382,020.01
Date Sampled: 24-Feb-88
Site: Oakland, Chinatown
Date Received: 24-Feb-88
Extract/Digest/Purge Date: 29-Feb-88
Analysis Completion Date: 29-Feb-88
Hold time: 5 days

MATRIX: SOIL

LAB #: 8-1990
CLIENT'S ID: 2407

COMPOUND	RESULT (ug/kg)	Detection Limit (ug/kg)
Dichlorodifluoromethane	N.D.	2.0
Chloromethane	N.D.	2.0
Vinyl Chloride	N.D.	2.0
Bromomethane	N.D.	2.0
Chloroethane	N.D.	2.0
Trichlorofluoromethane	N.D.	2.0
1,1-Dichloroethene	N.D.	0.5
Methylene Chloride	N.D.	0.5
trans-1,2-Dichloroethene	N.D.	0.5
1,1-Dichloroethane	N.D.	0.5
Chloroform	N.D.	0.5
1,1,1-Trichloroethane (TCA)	N.D.	0.5
Carbon Tetrachloride	N.D.	0.5
1,2-Dichloroethane (EDC)	N.D.	0.5
Trichloroethene (TCE)	N.D.	0.5
1,2-Dichloropropane	N.D.	0.5
Bromodichloromethane	N.D.	0.5
2-Chloroethylvinyl ether	N.D.	0.5
trans-1,3-Dichloropropene	N.D.	0.5
cis-1,3-Dichloropropene	N.D.	0.5
1,1,2-Trichloroethane	N.D.	0.5
Tetrachloroethene	N.D.	0.5
Dibromochloromethane	N.D.	0.5
Chlorobenzene	N.D.	0.5
Bromoform	N.D.	0.5
1,1,2,2-Tetrachloroethane	N.D.	0.5
1,3-Dichlorobenzene	N.D.	0.5
1,4-Dichlorobenzene	N.D.	0.5
1,2-Dichlorobenzene	N.D.	0.5

QUALITY CONTROL DATA	Percent Recovery
Surrogate Spike	
Bromochloromethane	71 %
1,4-Dichlorobutane	93 %

N.D.: Not Detected

Analytical Supervisor

BLANK, SPIKE DUPLICATE AND SPIKE REPORT JOB # HLA 0825-L
METHOD : EPA 8010

COMPOUND	Blank (ug/l)	Spike Duplicate % deviation	Spike % recovery
Sample #:		8-1990	8-1990
Dichlorodifluoromethane	N.D.	-	N.S.
Chloromethane	N.D.	-	N.S.
Vinyl Chloride	N.D.	-	N.S.
Bromomethane	N.D.	-	N.S.
Chloroethane	N.D.	-	N.S.
Trichlorofluoromethane	N.D.	-	N.S.
1,1-Dichloroethene	N.D.	-	N.S.
Methylene Chloride	N.D.	-	N.S.
trans-1,2-Dichloroethene	N.D.	-	N.S.
1,1-Dichloroethane	N.D.	29	32
Chloroform	N.D.	-	N.S.
1,1,1-Trichloroethane (TCA)	N.D.	-	N.S.
Carbon Tetrachloride	N.D.	-	N.S.
1,2-Dichloroethane (EDC)	N.D.	-	N.S.
Trichloroethene (TCE)	N.D.	0	79
1,2-Dichloropropane	N.D.	-	N.S.
Bromodichloromethane	N.D.	-	N.S.
2-Chloroethylvinyl ether	N.D.	-	N.S.
trans-1,3-Dichloropropene	N.D.	6	96
cis-1,3-Dichloropropene	N.D.	-	N.S.
1,1,2-Trichloroethane	N.D.	-	N.S.
Tetrachloroethene	N.D.	1	82
Dibromochloromethane	N.D.	-	N.S.
Chlorobenzene	N.D.	-	N.S.
Bromoform	N.D.	-	N.S.
1,1,2,2-Tetrachloroethane	N.D.	-	N.S.
1,3-Dichlorobenzene	N.D.	-	N.S.
1,4-Dichlorobenzene	N.D.	-	N.S.
1,2-Dichlorobenzene	N.D.	-	N.S.
QUALITY CONTROL DATA			
Surrogate Spike % recovery			
Bromochloromethane	67 %	73 %	76 %
1,4-Dichlorobutane	77 %	90 %	98 %

N.D.: Not Detected
N.S.: Not Spiked

Analytical Supervisor

Report Date:	10-Mar-88	Client Contract/PO:	9382,020.01
Client:	Harding Lawson Associates	Date Sampled:	24-Feb-88
Attn:	Peter Mote	Site:	Oakland, Chinatown
Sampled by:	W. Godwin	Date Received:	24-Feb-88
Submitted by:	W. Godwin	Extract/Digest/Purge Date:	29-Feb-88
Preservatives:	none	Analysis Completion Date:	29-Feb-88
Analyst:	Arntzen/Lewis	Hold Time:	5 days
WESCO JOB #:	HLA 0825-L		
Analytical Method:	EPA 8020		

LAB #: 8-1990 MATRIX: SOIL

CLIENT'S ID: 2407

COMPOUND	RESULT (ug/kg)	Detection Limit (ug/kg)
Benzene	0.3	0.2
Toluene	2.5	0.2
Chlorobenzene	N.D.	0.2
Ethylbenzene	2	0.2
Xylene	41	0.2
1,3-Dichlorobenzene	N.D.	0.2
1,4-Dichlorobenzene	N.D.	0.2
1,2-Dichlorobenzene	N.D.	0.2

QUALITY CONTROL DATA

Surrogate Spike	Percent Recovery
Fluorobenzene	73 %

N.D.: Not Detected

Analytical Supervisor

BLANK, SPIKE DUPLICATE AND SPIKE REPORT FOR JOB # HLA 0825-L
METHOD: EPA 8020

COMPOUND Sample #	Blank (ug/l)	Spike Duplicate % deviation 8-1990	Spike % recovery 8-1990
Benzene----------	N.D.	7	94
Toluene----------	N.D.	8	95
p-Xylene----------	N.D.	2	95
QUALITY CONTROL DATA Surrogate Spike % Recovery Fluorobenzene	95 %	73 %	67 %

N.D.: Not Detected

Analytical Supervisor

Report Date:	10-Mar-88	Client Contract/PO:	9382,020.01
Client:	Harding Lawson Associates	Date Sampled:	24-Feb-88
Attn:	Peter Mote	Site:	Oakland, Chinatown
Sampled by:	W. Godwin	Date Received:	24-Feb-88
Submitted by:	W. Godwin	Extract/Digest/Purge Date:	02-Mar-88
Preservatives:	none	Analysis Completion Date:	02-Mar-88
Analyst:	Oram	Hold Time:	7 days
WESCO JOB #:	HLA 0825-L		
Analytical Method:	EPA 5030/8015		

LAB #: 8-1990 MATRIX: SOIL

CLIENT'S ID: 2407

COMPOUND	RESULT (ug/kg)	Detection Limit (ug/kg)
Gasoline	1000	50.0

QUALITY CONTROL DATA

Surrogate Spike % Recovery

Fluorobenzene 77 %

N.D.: Not Detected

Analytical Supervisor

BLANK, SPIKE DUPLICATE AND SPIKE REPORT FOR JOB # HLA 0825-L
METHOD: EPA 5030/8015

COMPOUND	Blank ug/l	Spike Duplicate % deviation 8-1933 AQS 0831-L	Spike % recovery 8-1933 AQS 0831-L
Sample #			
Gasoline----------	N.D.	12	55
QUALITY CONTROL DATA			
Surrogate Spike % Recovery			
Fluorobenzene	99 %	118 %	109%

N.D.: Not Detected

Note: Wesco Laboratories will store samples for 30 days after date of report unless otherwise notified.

Analytical Supervisor

Report Date:	10-Mar-88	Client Contract/PO:	9382,020.01
Client:	Harding Lawson Associates	Date Sampled:	24-Feb-88
Attn:	Peter Mote	Site:	Oakland, Chinatown
Sampled by:	W. Godwin	Date Received:	24-Feb-88
Submitted by:	W. Godwin	Extract/Digest/Purge Date:	08-Mar-88
Preservatives:	none	Analysis Completion Date:	08-Mar-88
Analyst:	Libby		
WESCO JOB #:	HLA 0825-L		
Analytical Method:	CAM Metals		

LAB #: 8-1990 MATRIX: SOIL

CLIENT ID: 2407

COMPOUND	RESULT (mg/kg)	Detection limit(mg/kg)	Method number
Antimony (Sb)	N.D.	0.03	EPA 7041
Arsenic (As)	1.50	0.04	EPA 7061
Barium (Ba)	99.1	3.0	APHA 304
Beryllium (Be)	0.421	0.004	EPA 7091
Cadmium (Cd)	N.D.	2.0	EPA 7130
Chromium (Cr)	44.8	2.0	EPA 7190
Cobalt (Co)	12.6	2.0	EPA 7200
Copper (Cu)	9.9	2.0	EPA 7210
Lead (Pb)	5.0	2.0	EPA 7420
Mercury (Hg)	N.D.	0.018	EPA 7470
Molybdenum (Mo)	N.D.	3	EPA 7480
Nickel (Ni)	34.6	2.0	EPA 7520
Selenium (Se)	0.026	0.013	EPA 7741
Silver (Ag)	N.D.	2	EPA 7760
Thallium (Tl)	N.D.	0.1	EPA 7841
Vanadium (V)	42.4	1.0	EPA 7911
Zinc (Zn)	34.6	2.0	EPA 7950

N.D.: Not Detected

Analytical Supervisor

BLANK, SPIKE DUPLICATE AND SPIKE REPORT JOB # CAM Metals
METHOD:

COMPOUND	Blank (mg/l)	Spike Duplicate % deviation 8-1990	Spike % recovery 8-1990
Sample #			
Antimony (Sb)	N.D.	-	84 *
Arsenic (As)	N.D.	-	86
Barium (Ba)	N.D.	4	123
Beryllium (Be)	N.D.	5	27
Cadmium (Cd)	N.D.	7	96
Chromium (Cr)	N.D.	1	103
Cobalt (Co)	N.D.	3	96
Copper (Cu)	N.D.	0.7	94
Lead (Pb)	N.D.	4	101
Mercury (Hg)	N.D.	9 **	86 **
Molybdenum (Mo)	N.D.	3	93
Nickel (Ni)	N.D.	0.8	108
Selenium (Se)	N.D.	-	97
Silver (Ag)	N.D.	9	95
Thallium (Tl)	N.D.	5 **	85 **
Vanadium (V)	N.D.	9	118
Zinc (Zn)	N.D.	5	105

N.D.: Not Detected

* : Spike recovery reported is for DI water. Spike was not recovered from samples.
** : Q.C. data from sample # 1931 (HLA 0824-L).

Analytical Supervisor

HLA 0825-L

Harding Lawson Associates
Environmental Services Division
200 Rush Landing Road
Novato, California 94947
(415) 892-0821

CHAIN OF CUSTODY FORM

Samplers: William H. Godwin

Job Number: 9382,020.01

Name/Location: Oakland Chinatown 10th st at webster, oakland Ca

Project Manager: Peter Mote

Recorder: William Godwin for HLA.
(Signature Required)

SOURCE CODE	MATRIX: Water	Sediment	Soil	Oil	#CONTAINERS & PRESERV.: Unpres.	H_2SO_4	HNO_3	SAMPLE NUMBER OR LAB NUMBER: Yr	Wk	Seq...	DATE: Yr	Mo	Dy	Time	STATION DESCRIPTION/ NOTES	ANALYSIS REQUESTED: EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	Priority Pllnt. Metals CAM	Benzene/Toluene/Xylene	Total Petrol. Hydrocarb.	EPA 8080
49			X		1			88	08	2407	88	02	24		Excavation Central (G1)	X	X			X		X	X

LAB NUMBER: Yr	Wk	Seq	DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS
88	08	2407	11-13	10		

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature) William Godwin	RECEIVED BY: (Signature) M Blanchard	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
DISPATCHED BY: (Signature) DATE/TIME	RECEIVED FOR LAB BY: (Signature) M Blanchard	DATE/TIME 2/24/88
METHOD OF SHIPMENT		

Laboratory Copy Project Office Copy Field or Office Copy

6533

WESCO Laboratories

RECEIVED
MAR
ENVIRONMENTAL SERVICES DIVISION

Report Date:	08-Mar-88	Client Contract/PO:	9382,020.01
Client:	Harding Lawson Associates	Date Sampled:	22-Feb-88
Attn:	David Leland	Site:	Oakland, Chinatown
Sampled by:	W. Godwin	Date Received:	23-Feb-88
Submitted by:	P. LLewellyn	Extract/Digest/Purge Date:	02-Mar-88
Preservatives:	none		
Analyst:	Arntzen/Moezzi	Analysis Completion Date:	02-Mar-88
WESCO JOB #:	HLA 0824-L	Hold Time:	9 days
Analytical Method:	EPA 8020		

LAB #: 8-1931 MATRIX: SOIL
CLIENT'S ID: 2205

COMPOUND	RESULT (ug/kg)	Detection Limit (ug/kg)
Benzene	N.D.	100
Toluene	100	100
Chlorobenzene	N.D.	100
Ethylbenzene	N.D.	100
Xylene	340	100
1,3-Dichlorobenzene	N.D.	100
1,4-Dichlorobenzene	N.D.	100
1,2-Dichlorobenzene	N.D.	100

QUALITY CONTROL DATA

Surrogate Spike	Percent Recovery
Fluorobenzene	75 %

LAB #: 8-1932 MATRIX: SOIL
CLIENT'S ID: 2206

COMPOUND	RESULT (ug/kg)	Detection Limit (ug/kg)
Benzene	N.D.	200
Toluene	330	200
Chlorobenzene	N.D.	200
Ethylbenzene	N.D.	200
Xylene	5100	200
1,3-Dichlorobenzene	N.D.	200
1,4-Dichlorobenzene	N.D.	200
1,2-Dichlorobenzene	N.D.	200

QUALITY CONTROL DATA

Surrogate Spike	Percent Recovery
Fluorobenzene	67 %

N.D.: Not Detected

Analytical Supervisor

14 Galli Drive, Suite A
Novato, California 94949 415 883-6425
A Division of Western Ecological Services Company, Inc.

BLANK, SPIKE DUPLICATE AND SPIKE REPORT FOR JOB # HLA 0824-L
METHOD: EPA 8020

COMPOUND	Blank (ug/l)	Spike Duplicate % deviation 8-2044 PEI 0804-L	Spike % recovery 8-2044 PEI 0804-L
Sample #			
Benzene	N.D.	2	101
Toluene	N.D.	3	100
p-Xylene	N.D.	1	101
QUALITY CONTROL DATA			
Surrogate Spike % Recovery			
Fluorobenzene	105 %	101 %	104 %

N.D.: Not Detected

Analytical Supervisor

Report Date: 08-Mar-88
Client: AquaScience Engineers, Inc.
Attn: T. Carter
Sampled by: T. Carter
Submitted by: T. Carter
Preservatives: none
Analyst: Arntzen/Moezzi
WESCO JOB #: AQS 0828-L
Analytical Method: EPA 8010

Client Contract/PO: CC0130
Date Sampled: 11-Feb-88
Site: Auburn II (Caltrans)
Date Received: 12-Feb-88
Extract/Digest/Purge Date: 02-Mar-88
Analysis Completion Date: 02-Mar-88
Hold time: 20 days

LAB #: 8-1931
CLIENT'S ID: 2205

MATRIX: SOIL

COMPOUND	RESULT (ug/kg)	Detection Limit (ug/kg)
Dichlorodifluoromethane	N.D.	40
Chloromethane	N.D.	40
Vinyl Chloride	N.D.	40
Bromomethane	N.D.	40
Chloroethane	N.D.	40
Trichlorofluoromethane	N.D.	40
1,1-Dichloroethene	N.D.	10
Methylene Chloride	N.D.	10
trans-1,2-Dichloroethene	N.D.	10
1,1-Dichloroethane	N.D.	10
Chloroform	N.D.	10
1,1,1-Trichloroethane (TCA)	N.D.	10
Carbon Tetrachloride	N.D.	10
1,2-Dichloroethane (EDC)	N.D.	10
Trichloroethene (TCE)	N.D.	10
1,2-Dichloropropane	N.D.	10
Bromodichloromethane	N.D.	10
2-Chloroethylvinyl ether	N.D.	10
trans-1,3-Dichloropropene	N.D.	10
cis-1,3-Dichloropropene	N.D.	10
1,1,2-Trichloroethane	N.D.	10
Tetrachloroethene	N.D.	10
Dibromochloromethane	N.D.	10
Chlorobenzene	N.D.	10
Bromoform	N.D.	10
1,1,2,2-Tetrachloroethane	N.D.	10
1,3-Dichlorobenzene	N.D.	10
1,4-Dichlorobenzene	N.D.	10
1,2-Dichlorobenzene	N.D.	10

QUALITY CONTROL DATA

Surrogate Spike	Percent Recovery
Bromochloromethane	77 %
1,4-Dichlorobutane	114 %

N.D.: Not Detected

Analytical Supervisor

Report Date:	08-Mar-88	Client Contract/PO:	CC0130
Client:	AquaScience Engineers, Inc.	Date Sampled:	11-Feb-88
Attn:	T. Carter	Site:	Auburn II (Caltrans)
Sampled by:	T. Carter	Date Received:	12-Feb-88
Submitted by:	T. Carter	Extract/Digest/Purge Date:	02-Mar-88
Preservatives:	none	Analysis Completion Date:	02-Mar-88
Analyst:	Arntzen/Moezzi	Hold time:	20 days
WESCO JOB #:	AQS 0828-L		
Analytical Method:	EPA 8010		

LAB #: 8-1932 MATRIX: SOIL

CLIENT'S ID: 2206

COMPOUND	RESULT (ug/kg)	Detection Limit (ug/kg)
Dichlorodifluoromethane	N.D.	40
Chloromethane	N.D.	40
Vinyl Chloride	N.D.	40
Bromomethane	N.D.	40
Chloroethane	N.D.	40
Trichlorofluoromethane	N.D.	40
1,1-Dichloroethene	N.D.	10
Methylene Chloride	N.D.	10
trans-1,2-Dichloroethene	N.D.	10
1,1-Dichloroethane	N.D.	10
Chloroform	N.D.	10
1,1,1-Trichloroethane (TCA)	N.D.	10
Carbon Tetrachloride	N.D.	10
1,2-Dichloroethane (EDC)	N.D.	10
Trichloroethene (TCE)	N.D.	10
1,2-Dichloropropane	N.D.	10
Bromodichloromethane	N.D.	10
2-Chloroethylvinyl ether	N.D.	10
trans-1,3-Dichloropropene	N.D.	10
cis-1,3-Dichloropropene	N.D.	10
1,1,2-Trichloroethane	N.D.	10
Tetrachloroethene	N.D.	10
Dibromochloromethane	N.D.	10
Chlorobenzene	N.D.	10
Bromoform	N.D.	10
1,1,2,2-Tetrachloroethane	N.D.	10
1,3-Dichlorobenzene	N.D.	10
1,4-Dichlorobenzene	N.D.	10
1,2-Dichlorobenzene	N.D.	10

QUALITY CONTROL DATA

Surrogate Spike	Percent Recovery
Bromochloromethane	83 %
1,4-Dichlorobutane	116 %

N.D.: Not Detected

Analytical Supervisor

BLANK, SPIKE DUPLICATE AND SPIKE REPORT JOB # AQS 0828-L
METHOD : EPA 8010

COMPOUND	Blank (ug/l)	Spike Duplicate % deviation	Spike % recovery
Sample #:		8-2044 PEI 0804-L	8-2044 PEI 0804-L
Dichlorodifluoromethane	N.D.	-	N.S.
Chloromethane	N.D.	-	N.S.
Vinyl Chloride	N.D.	-	N.S.
Bromomethane	N.D.	-	N.S.
Chloroethane	N.D.	-	N.S.
Trichlorofluoromethane	N.D.	-	N.S.
1,1-Dichloroethene	N.D.	-	N.S.
Methylene Chloride	N.D.	-	N.S.
trans-1,2-Dichloroethene	N.D.	-	N.S.
1,1-Dichloroethane	N.D.	0	100
Chloroform	N.D.	-	N.S.
1,1,1-Trichloroethane (TCA)	N.D.	-	N.S.
Carbon Tetrachloride	N.D.	-	N.S.
1,2-Dichloroethane (EDC)	N.D.	-	N.S.
Trichloroethene (TCE)	N.D.	8	93
1,2-Dichloropropane	N.D.	-	N.S.
Bromodichloromethane	N.D.	-	N.S.
2-Chloroethylvinyl ether	N.D.	-	N.S.
trans-1,3-Dichloropropene	N.D.	1	101
cis-1,3-Dichloropropene	N.D.	-	N.S.
1,1,2-Trichloroethane	N.D.	-	N.S.
Tetrachloroethene	N.D.	2	96
Dibromochloromethane	N.D.	-	N.S.
Chlorobenzene	N.D.	-	N.S.
Bromoform	N.D.	-	N.S.
1,1,2,2-Tetrachloroethane	N.D.	-	N.S.
1,3-Dichlorobenzene	N.D.	-	N.S.
1,4-Dichlorobenzene	N.D.	-	N.S.
1,2-Dichlorobenzene	N.D.	-	N.S.

QUALITY CONTROL DATA Surrogate Spike % recovery			
Bromochloromethane	58 %	100 %	86 %
1,4-Dichlorobutane	102 %	114 %	103 %

N.D.: Not Detected
N.S.: Not Spiked

Analytical Supervisor

Report Date: 08-Mar-88
Client: Harding Lawson Associates
Attn: David Leland
Sampled by: W. Godwin
Submitted by: P. LLewellyn
Preservatives: none
Analyst: Oram
WESCO JOB #: HLA 0824-L
Analytical Method: EPA 8080

Client Contract/PO: 9382,020.01
Date Sampled: 22-Feb-88
Site: Oakland, Chinatown
Date Received: 23-Feb-88
Extract/Digest/Purge Date: 23-Feb-88
Analysis Completion Date: 25-Feb-88
Hold Time: 1 day

LAB #: 8-1931
CLIENT'S ID: 2205
MATRIX: SOIL

COMPOUND	Result (ug/kg)	Detection Limit (ug/kg)
Alpha-BHC	N.D.	8.0
Beta-BHC	N.D.	8.0
Lindane	N.D.	8.0
Delta-BHC	N.D.	8.0
Heptachlor	N.D.	8.0
Aldrin	N.D.	8.0
Heptachlor Epoxide	N.D.	8.0
Endosulfan I	N.D.	8.0
4,4'-DDE	N.D.	16.0
Dieldrin	N.D.	16.0
Endrin	N.D.	16.0
Endosulfan II	N.D.	16.0
4,4'-DDD	N.D.	16.0
Endrin Aldehyde	N.D.	16.0
4,4'-DDT	N.D.	16.0
Endosulfan Sulfate	N.D.	16.0
Aroclor 1016	N.D.	80.0
Aroclor 1221	N.D.	80.0
Aroclor 1232	N.D.	80.0
Aroclor 1242	N.D.	80.0
Aroclor 1248	N.D.	80.0
Aroclor 1254	N.D.	160.0
Aroclor 1260	N.D.	160.0
Chlordane	N.D.	80.0
Toxaphene	N.D.	160.0
Methoxychlor	N.D.	80.0

QUALITY CONTROL DATA
Surrogate Spike % Recovery
2,4,5,6-TCMX 91 %

N.D.: Not Detected
n.d.: not determined

Analytical Supervisor

Report Date: 08-Mar-88
Client: Harding Lawson Associates
Attn: David Leland
Sampled by: W. Godwin
Submitted by: P. LLewellyn
Preservatives: none
Analyst: Oram
WESCO JOB #: HLA 0824-L
Analytical Method: EPA 8080

Client Contract/PO: 9382,020.01
Date Sampled: 22-Feb-88
Site: Oakland, Chinatown
Date Received: 23-Feb-88
Extract/Digest/Purge Date: 23-Feb-88
Analysis Completion Date: 25-Feb-88
Hold Time: 1 day

LAB #: 8-1932
CLIENT'S ID: 2206
MATRIX: SOIL

COMPOUND	Result (ug/kg)	Detection Limit (ug/kg)
Alpha-BHC	N.D.	8.0
Beta-BHC	N.D.	8.0
Lindane	N.D.	8.0
Delta-BHC	N.D.	8.0
Heptachlor	N.D.	8.0
Aldrin	N.D.	8.0
Heptachlor Epoxide	N.D.	8.0
Endosulfan I	N.D.	8.0
4,4'-DDE	N.D.	16.0
Dieldrin	N.D.	16.0
Endrin	N.D.	16.0
Endosulfan II	N.D.	16.0
4,4'-DDD	N.D.	16.0
Endrin Aldehyde	N.D.	16.0
4,4'-DDT	N.D.	16.0
Endosulfan Sulfate	N.D.	16.0
Aroclor 1016	N.D.	80.0
Aroclor 1221	N.D.	80.0
Aroclor 1232	N.D.	80.0
Aroclor 1242	N.D.	80.0
Aroclor 1248	N.D.	80.0
Aroclor 1254	N.D.	160.0
Aroclor 1260	N.D.	160.0
Chlordane	N.D.	80.0
Toxaphene	N.D.	160.0
Methoxychlor	N.D.	80.0

QUALITY CONTROL DATA
Surrogate Spike % Recovery
2,4,5,6-TCMX 102 %

N.D.: Not Detected
n.d.: not determined

Analytical Supervisor

BLANK, SPIKE DUPLICATE AND SPIKE REPORT JOB # HLA 0824-L
METHOD: EPA 8080

COMPOUND	Blank (ug/l)	Spike Duplicate % deviation 8-1931	Spike % recovery 8-1931
Sample #			
Lindane	N.D.	0	11
Heptachlor	N.D.	N.S.	N.S.
Aldrin	N.D.	16	87
Endrin	N.D.	N.S.	N.S.
QUALITY CONTROL DATA			
Surrogate Spike % Recovery			
2,4,5,6-TCMX	107%	77 %	80 %

N.D.: Not Detected
n.d.: not determined
N.S.: Not Spiked

Analytical Supervisor

Report Date:	08-Mar-88	Client Contract/PO:	9382,020.01
Client:	Harding Lawson Associates	Date Sampled:	22-Feb-88
Attn:	David Leland	Site:	Oakland, Chinatown
Sampled by:	W. Godwin	Date Received:	23-Feb-88
Submitted by:	P. LLewellyn	Extract/Digest/Purge Date:	24-Feb-88
Preservatives:	none	Analysis Completion Date:	24-Feb-88
Analyst:	Arntzen/Attalla	Hold Time:	2 days
WESCO JOB #:	HLA 0824-L		
Analytical Method:	EPA 5030/8015		

LAB #: 8-1931 MATRIX: SOIL
CLIENT'S ID: 2205

COMPOUND	RESULT (ug/kg)	Detection Limit (ug/kg)
Gasoline	1200000	50000

QUALITY CONTROL DATA
Surrogate Spike % Recovery
Fluorobenzene 105 %

LAB #: 8-1932 MATRIX: SOIL
CLIENT'S ID: 2206

COMPOUND	RESULT (ug/kg)	Detection Limit (ug/kg)
Gasoline	780000	25000

QUALITY CONTROL DATA
Surrogate Spike % Recovery
Fluorobenzene 97 %

N.D.: Not Detected

Analytical Supervisor

BLANK, SPIKE DUPLICATE AND SPIKE REPORT FOR JOB # HLA 0824-L
METHOD: EPA 5030/8015

COMPOUND	Blank ug/l	Spike Duplicate % deviation 8-1876 HLA 0821-L	Spike % recovery 8-1876 HLA 0821-L
Sample #			
Gasoline----------	N.D.	11	92
QUALITY CONTROL DATA			
Surrogate Spike % Recovery			
Fluorobenzene	93 %	108 %	105%

N.D.: Not Detected

Note: Wesco Laboratories will store samples for 30 days after date of report unless otherwise notified.

Analytical Supervisor

Report Date:	09-Mar-88	Client Contract/PO	9382,020.01
Client:	Harding Lawson Associates	Date Sampled:	22-Feb-88
Attn:	David Leland	Site:	Oakland, Chinatown
Sampled by:	W. Godwin	Date Received:	23-Feb-88
Submitted by:	P. LLewellyn	Extract/Digest/Purge Date:	23-Feb-88
Preservatives:	none	Analysis Completion Date:	25-Feb-88
Analyst:	Libby/Staggs	Hold Time	1 days
WESCO JOB #:	HLA 0824-L		
Analytical Method:	METALS		

MATRIX: SOIL

LAB #	CLIENT ID	Antimony (Sb) (mg/kg)	Arsenic (As) (mg/kg)	Barium (Ba) (mg/kg)	Beryllium (Be) (mg/kg)	Cadmium (Ca) (mg/kg)	Chromium (Cr) (mg/kg)
8-1931	2205	N.D.	8.4	55	0.347	N.D.	44.0
8-1932	2206	N.D.	6.5	40	0.421	N.D.	44.7
Detection limit		0.03	1	10	0.004	2.0	2.0
Method number		EPA 7041	EPA 6010	EPA 6010	EPA 7091	EPA 7130	EPA 7190

LAB #	CLIENT ID	Cobalt (Co) (mg/kg)	Copper (Cu) (mg/kg)	Lead (Pb) (mg/kg)	Mercury (Hg) (mg/kg)	Molybdenum (Mo) (mg/kg)	Nickel (Ni) (mg/kg)
8-1931	2205	9.0	8	N.D.	N.D.	N.D.	40
8-1932	2206	6.8	10	2	N.D.	N.D.	35
Detection limit		2.0	2	2	0.018	3	2
Method number		EPA 7200	EPA 7210	EPA 7420	EPA 7470	EPA 7480	EPA 7520

LAB #	CLIENT ID	Selenium (Se) (mg/kg)	Silver (Ag) (mg/kg)	Thallium (Tl) (mg/kg)	Vanadium (V) (mg/kg)	Zinc (Zn) (mg/kg)
8-1931	2205	N.D.	N.D.	N.D.	39.1	40
8-1932	2206	N.D.	2.0	N.D.	20.9	44
Detection limit		0.5	2.0	0.10	1.0	2
Method number		EPA 6010	EPA 7760	EPA 7841	EPA 7911	EPA 7950

N.D.: Not Detected

Susan Lim

Analytical Supervisor

BLANK, SPIKE DUPLICATE AND SPIKE REPORT JOB # HLA 0824-L

METHOD: METALS

COMPOUND / Sample #	Blank (mg/l)	Spike Duplicate % deviation 8-1931	Spike % recovery 8-1931
Antimony	N.D.	-	84 *
Arsenic	N.D.	-	-
Barium	N.D.	-	-
Beryllium	N.D.	5	45
Cadmium	N.D.	6	99
Chromium	N.D.	18	99
Cobalt	N.D.	2	84
Copper	N.D.	8	91
Lead	N.D.	4	86
Mercury	N.D.	9	86
Molybdenum	N.D.	21	63
Nickel	N.D.	4	92
Selenium	N.D.	-	-
Silver	N.D.	2	106
Thallium	N.D.	5	85
Vanadium	N.D.	23	112
Zinc	N.D.	17	110

N.D.: Not Detected

* : Spike recovery reported is for DI water. Spike was not recovered from samples.

Susan Tabor

Analytical Supervisor