

ENVIRONMENTAL
PROTECTION

enviros[®]

November 2, 1995

NOV - 2 PM 1:50

Mr. Lynn Walker
Shell Oil Products Company
P.O. Box 4023
Concord, California 94524

STW 295

RE: Soil Disposal Summary
Former Shell Service Station
1230 14th Street
Oakland, California
WIC 204-5508-3103

Dear Mr. Walker:

Enviros, Inc. has prepared this letter report to document soil stockpile sampling and disposal activities at the above referenced site.

The soil stockpiles were generated as a result of underground gasoline and waste oil tank removal activities performed by Tank Project Engineering in 1993.

Soil Stockpile Sampling Methodology

A site survey was performed and stockpile measurements were taken on August 8, 1995 in order to evaluate quantities of soil existing onsite. Plate 1 identifies stockpile locations and volumes based on these measurements.

Soil stockpile SS-1 consisted of soil generated from excavation of the waste oil tank. Soil stockpiles SS-2 through SS-7 consisted of soil generated from excavation of the gasoline tanks. In addition to soil stockpiles, two areas of concrete and asphalt debris were also stockpiled onsite.

One composite soil sample was collected from the waste oil tank excavation stockpile (SS-1). Additionally, one composite soil sample was collected per 100 cubic yards of gasoline tank excavation soil for analysis and characterization purposes. Sampling activities were performed on August 8, 1995.

The soil stockpile samples were collected by removing the top 18 to 24 inches of soil and pushing clean stainless steel sample tubes into the soil until completely filled. The tubes were removed, both ends were covered with teflon tape and sealed with plastic end caps. The samples were labeled, placed into a cooler with ice, entered on a Chain-of-Custody form, and transported to Sequoia Analytical, a California-certified environmental laboratory located in Redwood City, California. The stockpile samples consisted of four subsamples that were composited in the laboratory and analyzed as one sample.

Soil Chemical Analysis

Soil samples from the gasoline tank excavation soil were analyzed for Total Petroleum Hydrocarbons calculated as Gasoline (TPH-G) by EPA Method 8015, benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8020, Total Threshold Limit Concentration (TTLC) lead by EPA Method 6010, and Organic Lead by LUFT Manual

methods. Sample SS-7(A-D) was also analyzed for Soluble Threshold Limit Concentration (STLC) lead by Title 22 methods.

Soil samples from the waste oil tank excavation soil were analyzed for Total Recoverable Petroleum Hydrocarbons (TRPH) by EPA Method 418.1, BTEX, Toxic Characteristic Leaching Potential (TCLP) Volatiles by EPA Method 8240, TCLP Metals by EPA Method 6010/7470, TTLC CAM 17 Metals by Title 22, STLC lead, Organic Lead, pH, Polychlorinated Biphenyls (PCBs) by EPA Method 8080, Static Acute Hazardous Waste Bioassay, TCLP Semi-Volatiles by EPA Method 8270, EP TOX Extraction lead, and sulfide and cyanide reactivity.

Sample identifications for each soil stockpile are shown on Plate 1. Chemical analytical results for soil stockpile analysis are summarized in Table 1 and contained in Appendix A.

Soil Stockpile Disposition

Based on chemical analytical data, the gasoline tank excavation soil was accepted for disposal at BFI Landfill located in Livermore, California under acceptance number CA 40509219554419. A total of 510.29 tons of gasoline tank excavation soil were transported to BFI on September 29, 1995.

Based on chemical analytical data, the waste oil tank excavation soil was accepted for disposal at Laidlaw Environmental located in Buttonwillow, California. A total of 48.11 tons of waste oil tank excavation soil were transported to Laidlaw on September 29, 1995.

Two piles of asphalt and concrete debris totaling 36 cubic yards in volume were transported to Florin-Perkins Landfill located in Sacramento, California on September 29, 1995.

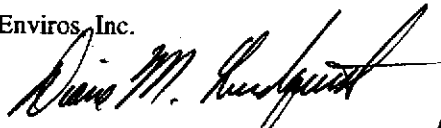
All soil transportation was performed by Manley and Sons Trucking of Sacramento, California.

Table 2 summarizes soil stockpile quantities and disposition.

If you have any questions regarding the contents of this document, please call.

Sincerely,

Enviros, Inc.


Diane M. Lundquist, P.E.
Senior Engineer
C46725



Attachments:

Plate 1 - Stockpile Sampling Location Map

Appendix A - Soil Stockpile Chemical Analytical Data

cc: Ms. Jennifer Eberle, Alameda County Health Care Services Agency

**TABLE 1
SOIL STOCKPILE ANALYTICAL DATA**

**FORMER SHELL SERVICE STATION
1230 14TH STREET
OAKLAND, CALIFORNIA
WIC 204-5508-3103**

SAMPLE NO.	ESTIMATED STOCKPILE VOLUME (YD³)	SAMPLE DATE	TPH-G (PPM)	BENZENE (PPM)	TOLUENE (PPM)	ETHYL BENZENE (PPM)	XYLENES (PPM)	TTLC LEAD (PPM)	ORGANIC LEAD (PPM)	STLC LEAD (PPM)
<i>waste oil</i> SS-1 (A-F)*	25	8-Aug-95	--	<0.0050	<0.0050	<0.0050	<0.0050	--	30	36
SS-2 (A-D)	85	8-Aug-95	<1.0	<0.0050	0.0070	<0.0050	0.022	37	<5.0	--
SS-3 (A-D)	100	8-Aug-95	<1.0	<0.0050	<0.0050	<0.0050	0.012	43	<5.0	--
SS-4 (A-D)	75	8-Aug-95	<1.0	<0.0050	<0.0050	<0.0050	0.0060	35	<5.0	--
SS-5 (A-D)	100	8-Aug-95	19	<0.0050	<0.0050	<0.0050	<0.0050	38	<5.0	--
SS-6 (A-D)	90	8-Aug-95	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	36	<5.0	--
SS-7 (A-D)	55	8-Aug-95	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	100	<5.0	2.6

Abbreviations:

TPH-G = Total Petroleum Hydrocarbons calculated as Gasoline

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

PPM = Parts Per Million

<x = Not Detected at detection limit of x

Note:

* See chemical analytical results for additional analyses.

**TABLE 2
SOIL DISPOSAL SUMMARY**

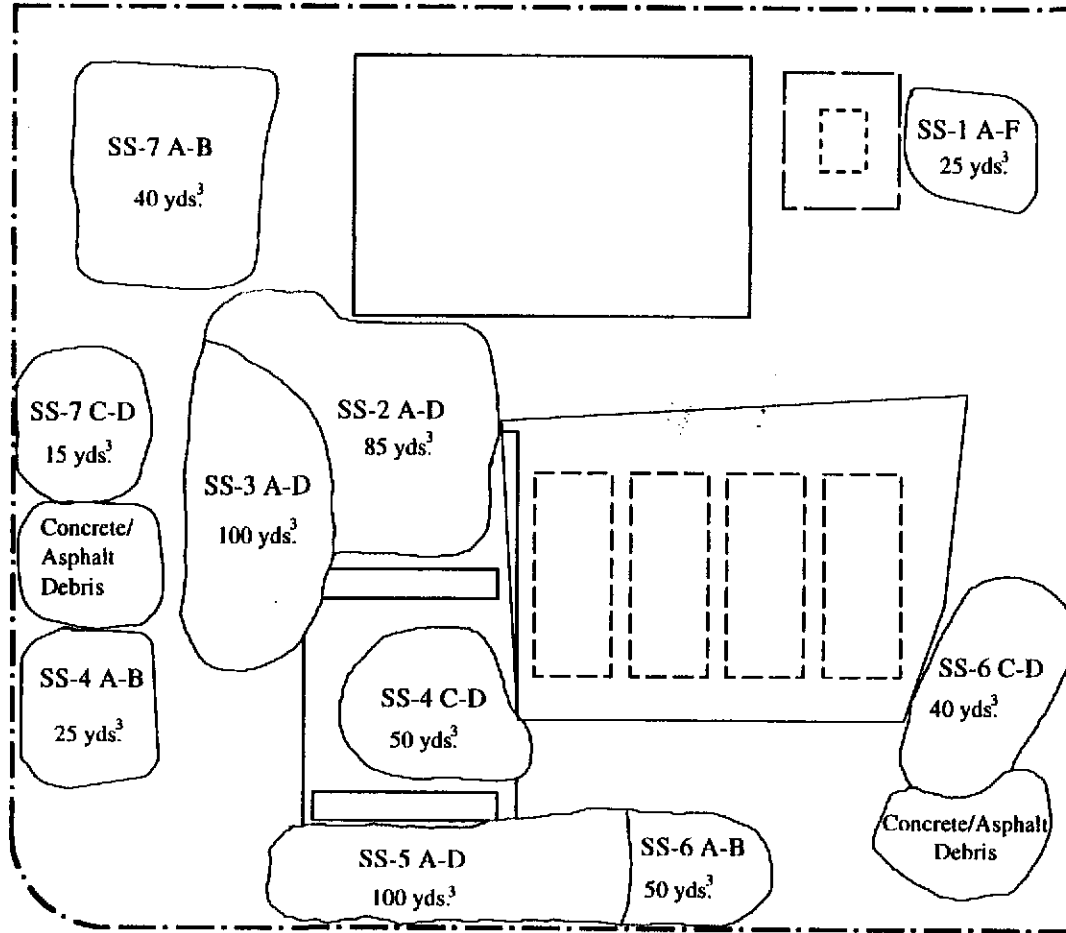
**FORMER SHELL SERVICE STATION
1230 14TH STREET
OAKLAND, CALIFORNIA
WIC 204-5508-3103**

STOCKPILE ID	REPRESENTATIVE SAMPLE NO.	ESTIMATED STOCKPILE VOLUME (YD³)	PROCESS GENERATING SOIL	DISPOSAL DATE	DISPOSAL FACILITY
SS-1	SS-1 (A-F)*	25	W.O. Tank Excavation	29-Sep-95	Laidlaw
SS-2	SS-2 (A-D)	85	Gasoline Tank Excavation	29-Sep-95	BFI Livermore
SS-3	SS-3 (A-D)	100	Gasoline Tank Excavation	29-Sep-95	BFI Livermore
SS-4	SS-4 (A-D)	75	Gasoline Tank Excavation	29-Sep-95	BFI Livermore
SS-5	SS-5 (A-D)	100	Gasoline Tank Excavation	29-Sep-95	BFI Livermore
SS-6	SS-6 (A-D)	90	Gasoline Tank Excavation	29-Sep-95	BFI Livermore
SS-7	SS-7 (A-D)	55	Gasoline Tank Excavation	29-Sep-95	BFI Livermore

Abbreviations:

W.O. = Waste Oil

UNION STREET



14TH STREET

EXPLANATION

SS-1 A-D
25 yds.³

Stockpile sample identification/
Stockpile volume



Scale in Feet

PLATE

1

STOCKPILE SAMPLING LOCATION MAP

Former Shell Service Station
1230 14th Street
Oakland, California

enviros®

95321

Drawn By: JPW

Date: 8-29-95

Approved By: *[Signature]*

Date: *11-2-95*

Appendix A

Soil Stockpile Chemical Analytical Data



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

RECEIVED
AUG 30 1995

Enviros
270 Perkins Ave.
Sonoma, CA 95476
Attention: Diane Lundquist

Project: Shell 1230 14th St., Oakland

Enclosed are the results from samples received at Sequoia Analytical on August 10, 1995.
The requested analyses are listed below:

<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
9508658 -01	SOLID, SS-1(a-f)	08/08/95	Bioassay
9508658 -01	SOLID, SS-1(a-f)	08/08/95	BTEX Distinction
9508658 -01	SOLID, SS-1(a-f)	08/08/95	Lead: STLC Extraction
9508658 -01	SOLID, SS-1(a-f)	08/08/95	ITTLCS Title 22: Metals, T
9508658 -01	SOLID, SS-1(a-f)	08/08/95	Organic Lead
9508658 -01	SOLID, SS-1(a-f)	08/08/95	PCB_S Polychlorinated Biph
9508658 -01	SOLID, SS-1(a-f)	08/08/95	pH
9508658 -01	SOLID, SS-1(a-f)	08/08/95	S_REAC Reactivity
9508658 -01	SOLID, SS-1(a-f)	08/08/95	TCLPMS Metals
9508658 -01	SOLID, SS-1(a-f)	08/08/95	TCLPSS SemiVolatile
9508658 -01	SOLID, SS-1(a-f)	08/08/95	TCLPVS Volatiles
9508658 -02	SOLID, SS-2(a-d)	08/08/95	Lead
9508658 -02	SOLID, SS-2(a-d)	08/08/95	TPHGBS Purgeable TPH/BTEX
9508658 -03	SOLID, SS-3(a-d)	08/08/95	Lead
9508658 -03	SOLID, SS-3(a-d)	08/08/95	TPHGBS Purgeable TPH/BTEX
9508658 -04	SOLID, SS-4(a-d)	08/08/95	Lead
9508658 -04	SOLID, SS-4(a-d)	08/08/95	TPHGBS Purgeable TPH/BTEX
9508658 -05	SOLID, SS-5(a-d)	08/08/95	Lead
9508658 -05	SOLID, SS-5(a-d)	08/08/95	TPHGBS Purgeable TPH/BTEX
9508658 -06	SOLID, SS-6(a-d)	08/08/95	Lead
9508658 -06	SOLID, SS-6(a-d)	08/08/95	TPHGBS Purgeable TPH/BTEX

Project No. 95321

RPT PF DF

1 2 3 4 5 6





Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
9508658 -07	SOLID, SS-7(a-d)	08/08/95	Lead
9508658 -07	SOLID, SS-7(a-d)	08/08/95	TPHGBS Purgeable TPH/BTEX
9508658 -08	SOLID, SS-1A	08/08/95	TRPH (EPA 418.1)
9508658 -09	SOLID, SS-1B	08/08/95	TRPH (EPA 418.1)
9508658 -10	SOLID, SS-1C	08/08/95	TRPH (EPA 418.1)
9508658 -11	SOLID, SS-1D	08/08/95	TRPH (EPA 418.1)
9508658 -12	SOLID, SS-1E	08/08/95	TRPH (EPA 418.1)
9508658 -13	SOLID, SS-1F	08/08/95	TRPH (EPA 418.1)

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager





Enviros
270 Perkins Ave.
Sonoma, CA 95476

Client Proj. ID: Shell 1230 14th St., Oakland

Sampled: 08/08/95
Received: 08/10/95
Analyzed: see below

Lab Proj. ID: 9508658

Attention: Diane Lundquist

Reported: 08/25/95

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
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Lab No: 9508658-01
Sample Desc : **SOLID,SS-1(a-f)**

Lead: STLC Extraction	mg/L	08/21/95	0.10	36
Organic Lead	mg/Kg	08/24/95	30	30
pH	pH Units	08/11/95	N/A	7.9

Lab No: 9508658-02
Sample Desc : **SOLID,SS-2(a-d)**

Lead	mg/Kg	08/18/95	5.0	37
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Lab No: 9508658-03
Sample Desc : **SOLID,SS-3(a-d)**

Lead	mg/Kg	08/18/95	5.0	43
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Lab No: 9508658-04
Sample Desc : **SOLID,SS-4(a-d)**

Lead	mg/Kg	08/18/95	5.0	35
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Lab No: 9508658-05
Sample Desc : **SOLID,SS-5(a-d)**

Lead	mg/Kg	08/18/95	5.0	38
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Lab No: 9508658-06
Sample Desc : **SOLID,SS-6(a-d)**

Lead	mg/Kg	08/18/95	5.0	36
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Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Mike Gregory
Project Manager





Enviros
270 Perkins Ave.
Sonoma, CA 95476

Client Proj. ID: Shell 1230 14th St., Oakland

Lab Proj. ID: 9508658

Sampled: 08/08/95
Received: 08/10/95
Analyzed: see below

Attention: Diane Lundquist

Reported: 08/25/95

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
---------	-------	---------------	-----------------	----------------

Lab No: 9508658-01
Sample Desc: **SOLID,SS-1(a-f)**

Lead: STLC Extraction	mg/L	08/21/95	0.10	36
Organic Lead	mg/Kg	08/24/95	30	30
pH	pH Units	08/11/95	N/A	7.9

Lab No: 9508658-02
Sample Desc: **SOLID,SS-2(a-d)**

Lead	mg/Kg	08/18/95	5.0	37
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Lab No: 9508658-03
Sample Desc: **SOLID,SS-3(a-d)**

Lead	mg/Kg	08/18/95	5.0	43
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Lab No: 9508658-04
Sample Desc: **SOLID,SS-4(a-d)**

Lead	mg/Kg	08/18/95	5.0	35
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Lab No: 9508658-05
Sample Desc: **SOLID,SS-5(a-d)**

Lead	mg/Kg	08/18/95	5.0	38
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Lab No: 9508658-06
Sample Desc: **SOLID,SS-6(a-d)**

Lead	mg/Kg	08/18/95	5.0	36
------	-------	----------	-----	----

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Enviros
270 Perkins Ave.
Sonoma, CA 95476

Client Proj. ID: Shell 1230 14th St., Oakland

Sampled: 08/08/95

Lab Proj. ID: 9508658

Received: 08/10/95

Analyzed: see below

Attention: Diane Lundquist

Reported: 08/25/95

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
---------	-------	---------------	-----------------	----------------

Lab No: 9508658-07
Sample Desc: SOLID,SS-7(a-d)

Lead	mg/Kg	08/25/95	5.0	100
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Lab No: 9508658-08
Sample Desc: SOLID,SS-1A

TRPH (EPA 418.1)	mg/Kg	08/25/95	75	850
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Lab No: 9508658-09
Sample Desc: SOLID,SS-1B

TRPH (EPA 418.1)	mg/Kg	08/25/95	15	280
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Lab No: 9508658-10
Sample Desc: SOLID,SS-1C

TRPH (EPA 418.1)	mg/Kg	08/25/95	15	330
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Lab No: 9508658-11
Sample Desc: SOLID,SS-1D

TRPH (EPA 418.1)	mg/Kg	08/25/95	15	59
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Lab No: 9508658-12
Sample Desc: SOLID,SS-1E

TRPH (EPA 418.1)	mg/Kg	08/25/95	15	310
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Lab No: 9508658-13
Sample Desc: SOLID,SS-1F

TRPH (EPA 418.1)	mg/Kg	08/25/95	75	1600
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Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Enviros
270 Perkins Ave.
Sonoma, CA 95476

Attention: Diane Lundquist

Client Proj. ID: Shell 1230 14th St., Oakland
Sample Descript: SS-1(a-f)
Matrix: SOLID
Analysis Method: EPA 8020
Lab Number: 9508658-01

Sampled: 08/08/95
Received: 08/10/95
Extracted: 08/14/95
Analyzed: 08/14/95
Reported: 08/25/95

QC Batch Number: GC081495BTEXEXA
Instrument ID: GCHP18

BTEX Distinction

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	91

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Enviros 270 Perkins Ave. Sonoma, CA 95476	Client Proj. ID: Shell 1230 14th St., Oakland Sample Descript: SS-1(a-f) Matrix: SOLID Analysis Method: Title 22 Lab Number: 9508658-01	Sampled: 08/08/95 Received: 08/10/95 Analyzed: Reported: 08/25/95
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Inorganic Persistent and Bioaccumulative Toxic Substances : TTLC

Analyte	Max. Limit mg/Kg	Detection Limit mg/Kg	Sample Results mg/Kg
Antimony, Sb	500	5.0	6.8
Arsenic, As	500	5.0	N.D.
Barium, Ba	10000	5.0	97
Beryllium, Be	75	0.50	N.D.
Cadmium, Cd	100	0.50	N.D.
Chromium, Cr	2500	0.50	36
Chromium, Cr (VI)	500	0.050	-
Cobalt, Co	8000	2.5	5.4
Copper, Cu	2500	0.50	18
Lead, Pb	1000	5.0	400
Mercury, Hg	20	0.020	0.095
Molybdenum, Mo	3500	2.5	N.D.
Nickel, Ni	2000	2.5	26
Selenium, Se	100	5.0	N.D.
Silver, Ag	500	0.50	N.D.
Thallium, Tl	700	5.0	N.D.
Vanadium, V	2400	2.5	25
Zinc, Zn	5000	0.50	180
Asbestos, fibers/g	10000		-
Fluoride salts	18000	1.0	-

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Enviros
270 Perkins Ave.
Sonoma, CA 95476

Attention: Diane Lundquist

Client Proj. ID: Shell 1230 14th St., Oakland
Sample Descript: SS-1(a-f)
Matrix: SOLID
Analysis Method: EPA 8080
Lab Number: 9508658-01

Sampled: 08/08/95
Received: 08/10/95
Extracted: 08/14/95
Analyzed: 08/17/95
Reported: 08/25/95

QC Batch Number: GC0814950PCBEXA
Instrument ID: GCHP12

Polychlorinated Biphenyls (EPA 8080)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
PCB-1016	20	N.D.
PCB-1221	80	N.D.
PCB-1232	20	N.D.
PCB-1242	20	N.D.
PCB-1248	20	N.D.
PCB-1254	20	N.D.
PCB-1260	20	26
Surrogates	Control Limits %	% Recovery
Dibutylchloroendate	30 150	38

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Enviros 270 Perkins Ave. Sonoma, CA 95476	Client Proj. ID: Shell 1230 14th St., Oakland Sample Descript: SS-1(a-f) Matrix: SOLID Analysis Method: Comb Lab Number: 9508658-01	Sampled: 08/08/95 Received: 08/10/95 Analyzed: 08/14/95 Reported: 08/25/95
---	---	---

QC Batch Number: IN081495335200A

Reactivity

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
Reactivity:		
Sulfide	13	N.D.
Cyanide	0.50	N.D.
Reaction with Water		N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Enviros 270 Perkins Ave. Sonoma, CA 95476	Client Proj. ID: Shell 1230 14th St., Oakland Sample Descript: SS-1(a-f) Matrix: SOLID Analysis Method: EPA6010/7470 Lab Number: 9508658-01	Sampled: 08/08/95 Received: 08/10/95 Analyzed: Reported: 08/25/95
Attention: Diane Lundquist		

TCLP Metals

Analyte	Max. Limit mg/L	Detection Limit mg/L	Sample Results mg/L
Arsenic, As	5.0	0.10	N.D.
Barium, Ba	100	0.10	0.93
Cadmium, Cd	1.0	0.010	N.D.
Chromium, Cr	5.0	0.010	0.076
Lead, Pb	5.0	0.10	3.1
Mercury, Hg	0.2	0.00020	N.D.
Selenium, Se	1.0	0.10	N.D.
Silver, Ag	5.0	0.010	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Enviros 270 Perkins Ave. Sonoma, CA 95476	Client Proj. ID: Shell 1230 14th St., Oakland Sample Descript: SS-1(a-f) Matrix: SOLID Analysis Method: EPA 8270 Lab Number: 9508658-01	Sampled: 08/08/95 Received: 08/10/95 Extracted: 08/16/95 Analyzed: 08/16/95 Reported: 08/25/95
Attention: Diane Lundquist		

QC Batch Number: MS0809958270EXA
Instrument ID: H5

TCLP Semivolatiles (EPA 8270)

Analyte	Max. Limit mg/L	Detection Limit mg/L	Sample Results mg/L
Total Cresol	200	0.0080	N.D.
1,4-Dichlorobenzene	7.5	0.0080	N.D.
2,4-Dinitrotoluene	0.13	0.0080	N.D.
Hexachlorobenzene	0.13	0.0080	N.D.
Hexachloro-1,3-butadiene	0.5	0.0080	N.D.
Hexachloroethane	3.0	0.0080	N.D.
Nitrobenzene	2.0	0.0080	N.D.
Pentachlorophenol	100	0.040	N.D.
Pyridine	5.0	0.040	N.D.
2,4,5-Trichlorophenol	400	0.040	N.D.
2,4,6-Trichlorophenol	2.0	0.0080	N.D.
Surrogates		Control Limits %	% Recovery
2-Fluorophenol		21	110
Phenol-d6		10	110
Nitrobenzene-d5		35	114
2-Fluorobiphenyl		43	116
2,4,6-Tribromophenol		10	123

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Enviros
270 Perkins Ave.
Sonoma, CA 95476

Attention: Diane Lundquist

Client Proj. ID: Shell 1230 14th St., Oakland
Sample Descript: SS-1(a-f)
Matrix: SOLID
Analysis Method: EPA 8240
Lab Number: 9508658-01

Sampled: 08/08/95
Received: 08/10/95
Extracted: 08/14/95
Analyzed: 08/15/95
Reported: 08/25/95

QC Batch Number: MS0814958240F3A
Instrument ID: F3

TCLP Volatiles (EPA 8240)

Analyte	Max. Limit mg/L	Detection Limit mg/L	Sample Results mg/L
Benzene	0.5	0.020	N.D.
Carbon tetrachloride	0.5	0.020	N.D.
Chlorobenzene	100	0.020	N.D.
Chloroform	6.0	0.020	N.D.
1,2-Dichloroethane	0.5	0.020	N.D.
1,1-Dichloroethylene	0.7	0.020	N.D.
Methyl ethyl ketone	200	0.10	N.D.
Tetrachloroethylene	0.7	0.020	N.D.
Trichloroethylene	0.5	0.020	N.D.
Vinyl chloride	0.2	0.020	N.D.
Surrogates		Control Limits %	% Recovery
1,2-Dichloroethane-d4		76	97
Toluene-d8		88	101
4-Bromofluorobenzene		86	100

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Enviros 270 Perkins Ave. Sonoma, CA 95476	Client Proj. ID: Shell 1230 14th St., Oakland Sample Descript: SS-2(a-d) Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9508658-02	Sampled: 08/08/95 Received: 08/10/95 Extracted: 08/14/95 Analyzed: 08/14/95 Reported: 08/25/95
Attention: Diane Lundquist		

QC Batch Number: GC081495BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	0.0070
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	0.022
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	89

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Enviros 270 Perkins Ave. Sonoma, CA 95476	Client Proj. ID: Shell 1230 14th St., Oakland Sample Descript: SS-3(a-d) Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9508658-03	Sampled: 08/08/95 Received: 08/10/95 Extracted: 08/14/95 Analyzed: 08/14/95 Reported: 08/25/95
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QC Batch Number: GC081495BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	0.012
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	91

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Enviros 270 Perkins Ave. Sonoma, CA 95476	Client Proj. ID: Shell 1230 14th St., Oakland Sample Descript: SS-4(a-d) Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9508658-04	Sampled: 08/08/95 Received: 08/10/95 Extracted: 08/14/95 Analyzed: 08/14/95 Reported: 08/25/95
Attention: Diane Lundquist		

QC Batch Number: GC081495BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	0.0060
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	92

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Enviros 270 Perkins Ave. Sonoma, CA 95476	Client Proj. ID: Shell 1230 14th St., Oakland Sample Descript: SS-5(a-d) Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9508658-05	Sampled: 08/08/95 Received: 08/10/95 Extracted: 08/14/95 Analyzed: 08/14/95 Reported: 08/25/95
Attention: Diane Lundquist		

QC Batch Number: GC081495BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	2.5	19
Benzene	0.012	N.D.
Toluene	0.012	N.D.
Ethyl Benzene	0.012	N.D.
Xylenes (Total)	0.012	N.D.
Chromatogram Pattern:		C9-12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	91

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Enviros 270 Perkins Ave. Sonoma, CA 95476	Client Proj. ID: Shell 1230 14th St., Oakland Sample Descript: SS-6(a-d) Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9508658-06	Sampled: 08/08/95 Received: 08/10/95 Extracted: 08/14/95 Analyzed: 08/14/95 Reported: 08/25/95
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QC Batch Number: GC081495BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	89

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Mike Gregory
Project Manager





Enviros 270 Perkins Ave. Sonoma, CA 95476 Attention: Diane Lundquist	Client Proj. ID: Shell 1230 14th St., Oakland Sample Descript: SS-7(a-d) Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9508658-07	Sampled: 08/08/95 Received: 08/10/95 Extracted: 08/14/95 Analyzed: 08/14/95 Reported: 08/25/95
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QC Batch Number: GC081495BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	92

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Enviros 270 Perkins Ave. Sonoma, CA 95476 Attention: Diane Lundquist	Client Project ID: Shell, 1230 14th St., Oakland Sample Descript: Liquid, SS-1 (a-f) Analysis Method: See below Lab Number: 9508-658 -01	Sampled: 8/8/95 Received: 8/10/95 Reported: 8/24/95
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STATIC ACUTE HAZARDOUS WASTE BIOASSAY - DEFINITIVE

Species: Pimephales promelas
Common Name: Fathead Minnow

Organisms/Tank: 10
Organisms/Conc.: 20
Tank Depth: 13 cm
Tank Volume: 10 L
Supplier: Sticklebacks Unlimited
Acclimation Temp.: 19 °C

Mean length: 37 mm Min. length: 34 mm
Max. length: 34 mm
Mean weight: 0.28 g Min. weight: 0.25 g
Max. weight: 0.30 g

Control Water: Synthetic Softwater
Hardness 40-48

	Alkalinity, mg/L		Hardness, mg/L	
	Initial	Final	Initial	Final
Control	30	32	42	46
1000 ppm	34	40	44	52
Duplicate 1000 ppm	34	38	42	52

DATE	Initial	24 Hr	48 Hr	72 Hr	96 Hr
	8/13/95	8/14/95	8/15/95	8/16/95	8/17/95

	DO	C	pH	DO	C	pH	# M	DO	C	pH	# M	DO	C	pH	# M	DO	C	pH	# M	Total Dead
	mg/L	Temp	Units	mg/L	Temp	Units	Dead	mg/L	Temp	Units	Dead	mg/L	Temp	Units	Dead	mg/L	Temp	Units	Dead	
Control	9.3	19	7.4	8.0	19	7.3	0	7.5	19	7.2	0	6.2	19	7.1	0	5.8	19	7.0	0	0
1000 ppm	8.9	19	7.3	8.1	19	7.2	0	7.2	19	7.1	0	6.1	19	7.0	1	5.8	19	7.0	1	2
560 ppm	9.0	19	7.3	8.2	19	7.3	0	7.0	19	7.1	0	6.1	19	7.1	1	5.7	19	7.0	1	2
320 ppm	9.0	19	7.4	8.1	19	7.3	0	7.2	19	7.1	0	6.1	19	7.1	0	5.6	19	7.0	0	0
180 ppm	9.1	19	7.4	8.0	19	7.4	0	7.3	19	7.2	0	6.2	19	7.1	0	5.8	19	7.0	0	0
100 ppm	9.3	19	7.4	8.1	19	7.2	0	7.4	19	7.2	0	6.3	19	7.1	1	5.8	19	7.1	0	1

Duplicate	DO	C	pH	DO	C	pH	# M	DO	C	pH	# M	DO	C	pH	# M	DO	C	pH	# M	Total Dead
	mg/L	Temp	Units	mg/L	Temp	Units	Dead	mg/L	Temp	Units	Dead	mg/L	Temp	Units	Dead	mg/L	Temp	Units	Dead	
1000 ppm	9.0	19	7.3	8.0	19	7.2	0	7.3	19	7.3	1	6.4	19	7.2	0	5.6	19	7.2	0	1
560 ppm	9.2	19	7.2	7.6	19	7.2	0	7.5	19	7.2	0	6.1	19	7.1	1	5.7	19	7.0	0	1
320 ppm	9.3	19	7.4	7.8	19	7.4	0	7.4	19	7.3	0	6.3	19	7.1	0	5.7	19	7.0	0	0
180 ppm	9.2	19	7.4	7.9	19	7.3	1	7.4	19	7.2	0	6.3	19	7.1	0	5.8	19	7.1	1	2
100 ppm	9.3	19	7.3	8.0	19	7.3	0	7.5	19	7.4	0	6.2	19	7.2	1	5.9	19	7.2	0	1

LC-50: > 1,000

LC-50 Calculation Method: Binomial

Remarks: _____

Analyst: M.Otte/
K. Bentler
SEQUOIA ANALYTICAL

Method Reference: Static Acute Bioassay Procedures for Hazardous Waste Samples,
November 1988, California Department of Fish and Game WPCL

Mike Gregory
Project Manager





Enviros
270 Perkins Ave.
Sonoma, CA 95476
Attention: Diane Lundquist

Client Project ID: Shell 1230 14th St., Oakland
Matrix: Solid

Work Order #: 9508658

Reported: Aug 28, 1995

QUALITY CONTROL DATA REPORT

TTL

Analyte: Mercury

QC Batch#: ME0816957471M4A
Analy. Method: EPA 7471
Prep. Method: EPA 7471

Analyst: T. Hua
MS/MSD #: 950865801
Sample Conc.: 0.095
Prepared Date: 8/16/95
Analyzed Date: 8/16/95
Instrument I.D.#: MPE4
Conc. Spiked: 0.20 mg/Kg

Result: 0.27
MS % Recovery: 88

Dup. Result: 0.25
MSD % Recov.: 78

RPD: 7.7
RPD Limit: 0-30

LCS #: BLK081695

Prepared Date: 8/16/95
Analyzed Date: 8/16/95
Instrument I.D.#: MPE4
Conc. Spiked: 0.20 mg/Kg

LCS Result: 0.16
LCS % Recov.: 80

**MS/MSD
LCS
Control Limits** 75-125

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

**Mike Gregory
Project Manager**

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9508658.EEE <1>





Enviros
270 Perkins Ave.
Sonoma, CA 95476
Attention: Diane Lundquist

Client Project ID: Shell 1230 14th St., Oakland
Matrix: Liquid

Work Order #: 9508658

Reported: Aug 28, 1995

QUALITY CONTROL DATA REPORT

TCLP

Analyte: Mercury

QC Batch#: ME0816957470M4B
Analy. Method: EPA 7470
Prep. Method: EPA 7470

Analyst: T. Hua
MS/MSD #: 950859001
Sample Conc.: N.D.
Prepared Date: 8/16/95
Analyzed Date: 8/16/95
Instrument I.D.#: MPE4
Conc. Spiked: 0.0040 mg/L

Result: 0.0041
MS % Recovery: 103

Dup. Result: 0.0041
MSD % Recov.: 103

RPD: 0.0
RPD Limit: 0-30

LCS #: BLK081695

Prepared Date: 8/16/95
Analyzed Date: 8/16/95
Instrument I.D.#: MPE4
Conc. Spiked: 0.0040 mg/L

LCS Result: 0.0040
LCS % Recov.: 100

MS/MSD
LCS 75-125
Control Limits

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL


Mike Gregory
Project Manager

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9508658.EEE <2>





Enviros 270 Perkins Ave. Sonoma, CA 95476 Attention: Diane Lundquist	Client Project ID: Shell 1230 14th St., Oakland Matrix: Liquid Work Order #: 9508658	Reported: Aug 28, 1995
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QUALITY CONTROL DATA REPORT

	TCLP	TCLP	TCLP	TCLP
Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0816956010MDC	ME0816956010MDC	ME0816956010MDC	ME0816956010MDC
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3010	EPA 3010	EPA 3010	EPA 3010

Analyst:	SO/CM	SO/CM	SO/CM	SO/CM
MS/MSD #:	950849301	950849301	950849301	950849301
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	8/16/95	8/16/95	8/16/95	8/16/95
Analyzed Date:	8/16/95	8/16/95	8/16/95	8/16/95
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
Result:	1.1	1.0	1.0	1.1
MS % Recovery:	110	100	100	110
Dup. Result:	1.1	1.0	1.0	1.1
MSD % Recov.:	110	100	100	110
RPD:	0.0	0.0	0.0	0.0
RPD Limit:	0-30	0-30	0-30	0-30

LCS #:	BLK081695	BLK081695	BLK081695	BLK081695
Prepared Date:	8/16/95	8/16/95	8/16/95	8/16/95
Analyzed Date:	8/16/95	8/16/95	8/16/95	8/16/95
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
LCS Result:	1.1	1.0	1.0	1.0
LCS % Recov.:	110	100	100	100

MS/MSD LCS Control Limits	75-125	75-125	75-125	75-125
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Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

9508658.EEE <3>





Enviros
270 Perkins Ave.
Sonoma, CA 95476
Attention: Diane Lundquist

Client Project ID: Shell 1230 14th St., Oakland
Matrix: Liquid

Work Order #: 9508658

Reported: Aug 28, 1995

QUALITY CONTROL DATA REPORT

	STLC	STLC	STLC	STLC
Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0820956010MDA	ME0820956010MDA	ME0820956010MDA	ME0820956010MDA
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3010	EPA 3010	EPA 3010	EPA 3010

Analyst:	S. O'Donnell	S. O'Donnell	S. O'Donnell	S. O'Donnell
MS/MSD #:	950870503	950870503	950870503	950870503
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	8/20/95	8/20/95	8/20/95	8/20/95
Analyzed Date:	8/21/95	8/21/95	8/21/95	8/21/95
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
Result:	1.0	0.97	0.96	0.97
MS % Recovery:	100	97	96	97
Dup. Result:	1.1	1.0	1.0	1.1
MSD % Recov.:	110	100	100	110
RPD:	9.5	3.0	4.1	13
RPD Limit:	0-30	0-30	0-30	0-30

LCS #:	BLK082095	BLK082095	BLK082095	BLK082095
Prepared Date:	8/20/95	8/20/95	8/20/95	8/20/95
Analyzed Date:	8/20/95	8/20/95	8/20/95	8/20/95
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
LCS Result:	1.1	1.1	1.1	1.1
LCS % Recov.:	110	110	110	110

MS/MSD LCS Control Limits	75-125	75-125	75-125	75-125
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Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL


Mike Gregory
Project Manager

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

9508658.EEE <4>





Enviros
270 Perkins Ave.
Sonoma, CA 95476
Attention: Diane Lundquist

Client Project ID: Shell 1230 14th St., Oakland
Matrix: Solid

Work Order #: 9508658-01-07

Reported: Aug 28, 1995

QUALITY CONTROL DATA REPORT

	TTLIC	TTLIC	TTLIC	TTLIC
Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0815956010MD	ME0815956010MD	ME0815956010MD	ME0815956010MD
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050

Analyst:	S. O'Donnell	S. O'Donnell	S. O'Donnell	S. O'Donnell
MS/MSD #:	950881501	950881501	950881501	950881501
Sample Conc.:	0.53	N.D.	52	39
Prepared Date:	8/15/95	8/15/95	8/15/95	8/15/95
Analyzed Date:	8/15/95	8/15/95	8/15/95	8/15/95
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg
Result:	110	100	150	140
MS % Recovery:	109	100	98	101
Dup. Result:	110	100	140	140
MSD % Recov.:	109	100	88	101
RPD:	0.0	0.0	6.9	0.0
RPD Limit:	0-30	0-30	0-30	0-30

LCS #:	BLK081595	BLK081595	BLK081595	BLK081595
Prepared Date:	8/15/95	8/15/95	8/15/95	8/15/95
Analyzed Date:	8/15/95	8/15/95	8/15/95	8/15/95
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg
LCS Result:	110	110	110	110
LCS % Recov.:	110	110	110	110

MS/MSD				
LCS	75-125	75-125	75-125	75-125
Control Limits				

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL


Mike Gregory
Project Manager

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

9508658.EEE <5>





Enviros
270 Perkins Ave.
Sonoma, CA 95476
Attention: Diane Lundquist

Client Project ID: Shell 1230 14th St., Oakland
Matrix: Solid
Work Order #: 9508658-01

Reported: Aug 28, 1995

QUALITY CONTROL DATA REPORT

Analyte:	PCB 1260	Organic Lead
QC Batch#:	GC0814950PCBEXA	ME0824957000MD
Analy. Method:	EPA 8080	LUFT
Prep. Method:	EPA 3550	LUFT

Analyst:	A. Savva	R. Butler
MS/MSD #:	950857209	9508D2801
Sample Conc.:	N.D.	N.D.
Prepared Date:	8/14/95	8/24/95
Analyzed Date:	8/18/95	8/24/95
Instrument I.D.#:	GCHP10	MV2
Conc. Spiked:	83 µg/Kg	0.50 mg/Kg
Result:	77	0.49
MS % Recovery:	93	98
Dup. Result:	84	0.47
MSD % Recov.:	101	94
RPD:	9.0	4.2
RPD Limit:	0-50	0-30

LCS #:	BLK082495
Prepared Date:	8/24/95
Analyzed Date:	8/24/95
Instrument I.D.#:	MV2
Conc. Spiked:	0.50 mg/Kg
LCS Result:	0.50
LCS % Recov.:	100

MS/MSD		
LCS	30-150	75-125
Control Limits		

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9508658.EEE <6>





Enviros
270 Perkins Ave.
Sonoma, CA 95476
Attention: Diane Lundquist

Client Project ID: Shell 1230 14th St., Oakland
Matrix: Solid

Work Order #: 9508658-01

Reported: Aug 28, 1995

QUALITY CONTROL DATA REPORT

Analyte:	1,4-Dichloro- benzene	2,4-Dinitro- toluene	Pentachloro- phenol
QC Batch#:	MS0809958270EXA	MS0809958270EXA	MS0809958270EXA
Analy. Method:	EPA 1311	EPA 1311	EPA 1311
Prep. Method:	EPA 1311	EPA 1311	EPA 1311

Analyst:	E. Manuel	E. Manuel	E. Manuel
MS/MSD #:	950710305	950710305	950710305
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	8/9/95	8/9/95	8/9/95
Analyzed Date:	8/12/95	8/12/95	8/12/95
Instrument I.D.#:	H5	H5	H5
Conc. Spiked:	400 µg/L	400 µg/L	400 µg/L

Result:	100	36	190
MS % Recovery:	25	9.0	48

Dup. Result:	130	34	170
MSD % Recov.:	33	9.0	43

RPD:	26	5.7	11
RPD Limit:	0-50	0-50	0-50

LCS #:	BLK080995	BLK080995	BLK080995
Prepared Date:	8/9/95	8/9/95	8/9/95
Analyzed Date:	8/12/95	8/12/95	8/12/95
Instrument I.D.#:	F4	F4	F4
Conc. Spiked:	400 µg/L	400 µg/L	400 µg/L
LCS Result:	130	190	260
LCS % Recov.:	33	48	65

MS/MSD LCS Control Limits	20-124	39-139	14-176
--	--------	--------	--------

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9508658.EEE <7>





Enviros
270 Perkins Ave.
Sonoma, CA 95476
Attention: Diane Lundquist

Client Project ID: Shell 1230 14th St., Oakland
Matrix: Liquid

Work Order #: 9508658-01

Reported: Aug 28, 1995

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloroethene	Trichloroethene	Benzene	Toluene	Chloro- benzene
QC Batch#:	MS0814958240F3A	MS0814958240F3A	MS0814958240F3A	MS0814958240F3A	MS0814958240F3A
Analy. Method:	EPA 8240	EPA 8240	EPA 8240	EPA 8240	EPA 8240
Prep. Method:	N.A.	N.A.	N.A.	N.A.	N.A.
Analyst:	M. Williams	M. Williams	M. Williams	M. Williams	M. Williams
MS/MSD #:	950839205	950839205	950839205	950839205	950839205
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	N.A.	N.A.	N.A.	N.A.	N.A.
Analyzed Date:	8/14/95	8/14/95	8/14/95	8/14/95	8/14/95
Instrument I.D.#:	F3	F3	F3	F3	F3
Conc. Spiked:	50 µg/L	50 µg/L	50 µg/L	50 µg/L	50 µg/L
Result:	50	50	51	51	51
MS % Recovery:	100	100	102	102	102
Dup. Result:	49	49	50	51	49
MSD % Recov.:	98	98	100	102	98
RPD:	2.0	2.0	2.0	0.0	2.0
RPD Limit:	0-50	0-50	0-50	0-50	0-50

LCS #:	BLK081495	BLK081495	BLK081495	BLK081495	BLK081495
Prepared Date:	N.A.	N.A.	N.A.	N.A.	N.A.
Analyzed Date:	8/14/95	8/14/95	8/14/95	8/14/95	8/14/95
Instrument I.D.#:	F3	F3	F3	F3	F3
Conc. Spiked:	50 µg/L	50 µg/L	50 µg/L	50 µg/L	50 µg/L
LCS Result:	50	47	48	47	47
LCS % Recov.:	100	94	96	94	94

MS/MSD LCS Control Limits	DL-234	71-157	37-151	47-150	37-160
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Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

SEQUOIA ANALYTICAL

[Signature]
Mike Gregory
Project Manager





Enviros
270 Perkins Ave.
Sonoma, CA 95476
Attention: Diane Lundquist

Client Project ID: Shell 1230 14th St., Oakland
Matrix: Solid

Work Order #: 9508658-01

Reported: Aug 28, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Reactive Cyanide	Reactive Sulfide
QC Batch#:	IN081495084600A	IN081495084600A
Analy. Method:	SW-846	SW-846
Prep. Method:	N.A.	N.A.

Analyst: A. Pina K. Newberry
MS/MSD #:
Sample Conc.:
Prepared Date:
Analyzed Date:
Instrument I.D.#:
Conc. Spiked:

Result:
MS % Recovery:

Dup. Result:
MSD % Recov.:

RPD:
RPD Limit:

LCS #:	LCS081495	LCS081495
Prepared Date:	8/14/95	8/14/95
Analyzed Date:	8/14/95	8/14/95
Instrument I.D.#:	MANUAL	MANUAL
Conc. Spiked:	0.20 mg/L	10 mg/L
LCS Result:	0.079	9.2
LCS % Recov.:	40	92

MS/MSD LCS Control Limits	6.5-40	80-120
--	--------	--------

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

9508658.EEE <9>





Enviros
270 Perkins Ave.
Sonoma, CA 95476
Attention: Diane Lundquist

Client Project ID: Shell 1230 14th St., Oakland
Matrix: Solid

Work Order #: 9508658-01

Reported: Aug 28, 1995

QUALITY CONTROL DATA REPORT

Analyte: pH

QC Batch: IN081195904500A
Analy. Method: EPA 9045
Prep Method: N.A.

Analyst: S. Lee

Duplicate
Sample #: 950856003

Prepared Date: 8/11/95
Analyzed Date: 8/11/95
Instrument I.D.#: MANUAL

Sample
Concentration: 8.2

Dup. Sample
Concentration: 8.2

RPD: 0.0
RPD Limit: 0-30

SEQUOIA ANALYTICAL


Mike Gregory
Project Manager

** RPD=Relative % Difference

9508658.EEE <10>





Enviros
270 Perkins Ave.
Sonoma, CA 95476
Attention: Diane Lundquist

Client Project ID: Shell 1230 14th St., Oakland
Matrix: Solid

Work Order #: 9508658-01-07

Reported: Aug 28, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC081495BTEXEXA	GC081495BTEXEXA	GC081495BTEXEXA	GC081495BTEXEXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	G. Garcia	G. Garcia	G. Garcia	G. Garcia
MS/MSD #:	950840003	950840003	950840003	950840003
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	8/14/95	8/14/95	8/14/95	8/14/95
Analyzed Date:	8/14/95	8/14/95	8/14/95	8/14/95
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg
Result:	0.15	0.16	0.16	0.47
MS % Recovery:	75	80	80	78
Dup. Result:	0.15	0.15	0.15	0.46
MSD % Recov.:	75	75	75	77
RPD:	0.0	6.5	6.5	2.2
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:

Prepared Date:
Analyzed Date:
Instrument I.D.#:
Conc. Spiked:

LCS Result:
LCS % Recov.:

MS/MSD LCS Control Limits	55-145	47-149	47-155	56-140
---------------------------	--------	--------	--------	--------

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9508658.EEE <11>





Enviros
270 Perkins Ave.
Sonoma, CA 95476
Attention: Diane Lundquist

Client Project ID: Shell 1230 14th St., Oakland
Matrix: Solid

Work Order #: 9508658-08-13

Reported: Aug 28, 1995

QUALITY CONTROL DATA REPORT

Analyte: Total Recoverable
Petroleum Hydrocarbons

QC Batch#: IN0825954181FTA
Analy. Method: EPA 418.1
Prep. Method: N.A.

Analyst: D. Williams
MS/MSD #: 9508C65808
Sample Conc.: 850
Prepared Date: 8/15/95
Analyzed Date: 8/15/95
Instrument I.D.#: FTIR1
Conc. Spiked: 2100 mg/Kg

Result: 1000
MS % Recovery: 7.1

Dup. Result: 780
MSD % Recov.: 0.0

RPD: -
RPD Limit: 0-40

LCS #: LCS082595

Prepared Date: 8/25/95
Analyzed Date: 8/25/95
Instrument I.D.#: FTIR1
Conc. Spiked: 210 mg/Kg

LCS Result: 230
LCS % Recov.: 110

MS/MSD
LCS 60-140
Control Limits 80-120

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

Mike Gregory
Mike Gregory
Project Manager

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

9508658.EEE <12>





SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: 9508658

Date: 8/10
Page 1 of 2

Site Address: 1230 14th Street Oakland

WIC#: 204-5508-3103

Shell Engineer: Lynn Walker Phone No.: 510 675-6169
Fax #: 675-6172

Consultant Name & Address: Enviros, Inc.
PO Box 259 Sonoma CA 95476

Consultant Contact: Diane Lundquist Phone No.: 707 935-9852
Fax #: 935-6649

Comments:

Sampled by: J. Werfall

Printed Name: J. Werfall

Sample ID	Date	Sludge	Soil	Water	Air	No. of conls.
SS-1 (A/F)	8/10/95		X			6
SS-2 (A/D)			X			4
SS-3 (A/D)			X			4
SS-4 (A/D)			X			4
SS-5 (A/D)			X			4
SS-6 (A/D)			X			4
SS-7 (A/D)			X			4

Analysis Required

TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/802)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	TPH Lead	Asbestos	Container Size	Preparation Used	Composite Y/N
				X						
					X	X				Y
					X	X				
					X	X				
					X	X				
					X	X				

LAB: Sequoia

CHECK ONE (1) BOX ONLY	CI/DI	TURN AROUND TIME
G.W. Monitoring <input type="checkbox"/>	4461	24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	4441	48 hours <input type="checkbox"/>
Soil Classify/Disposal <input checked="" type="checkbox"/>	4442	16 days <input checked="" type="checkbox"/> (Normal)
Water Classify/Disposal <input type="checkbox"/>	4443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	4452	
Water Rem. or Sys. O & M <input type="checkbox"/>	4453	
Other <input type="checkbox"/>		

UST AGENCY: Alameda City

MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
See Attached - Run sample for Shell protocol for waste oil soil disposal	

Released By (signature): [Signature] Printed Name: J. Werfall
Date: 8-10-95 Time: 07:15

Released By (signature): [Signature] Printed Name: Diane Lundquist
Date: 8/10/95 Time: 10:30

Released By (signature): [Signature] Printed Name: [Signature]
Date: 8/10/95 Time: [Time]

Received (signature): [Signature] Printed Name: Refugeator #1
Date: 8/10/95 Time: 07:15

Received (signature): [Signature] Printed Name: Fletcher
Date: 8/10/95 Time: 10:30

Received (signature): [Signature] Printed Name: R. Iverson
Date: 8/10/95 Time: 11:18

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94061
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

RECEIVED
SEP 11 1995

Enviros
270 Perkins Ave.
Sonoma, CA 95476
Attention: Diane Lindquist

Project: Shell 1230 14th St., Oakland

Enclosed are the results from samples received at Sequoia Analytical on August 10, 1995.
The requested analyses are listed below:

<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
9508L08 -01	SOLID, SS-2(A-D)Comp	08/08/95	Organic Lead
9508L08 -02	SOLID, SS-3(A-D)Comp	08/08/95	Organic Lead
9508L08 -03	SOLID, SS-4(A-D)Comp	08/08/95	Organic Lead
9508L08 -04	SOLID, SS-5(A-D)Comp	08/08/95	Organic Lead
9508L08 -05	SOLID, SS-6(A-D)Comp	08/08/95	Organic Lead
9508L08 -06	SOLID, SS-7(A-D)Comp	08/08/95	Lead: STLC Extraction
9508L08 -06	SOLID, SS-7(A-D)Comp	08/08/95	Organic Lead

Project No.	95321				
RPT	PF	EF			
1	2	3	4	5	6

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager





Enviros
270 Perkins Ave.
Sonoma, CA 95476

Client Proj. ID: Shell 1230 14th St., Oakland

Sampled: 08/08/95
Received: 08/10/95
Analyzed: see below

Attention: Diane Lindquist

Lab Proj. ID: 9508L08

Reported: 09/06/95

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9508L08-01 Sample Desc: SOLID,SS-2(A-D)Comp				
Organic Lead	mg/Kg	08/31/95	5.0	N.D.
Lab No: 9508L08-02 Sample Desc: SOLID,SS-3(A-D)Comp				
Organic Lead	mg/Kg	08/31/95	5.0	N.D.
Lab No: 9508L08-03 Sample Desc: SOLID,SS-4(A-D)Comp				
Organic Lead	mg/Kg	08/31/95	5.0	N.D.
Lab No: 9508L08-04 Sample Desc: SOLID,SS-5(A-D)Comp				
Organic Lead	mg/Kg	08/31/95	5.0	N.D.
Lab No: 9508L08-05 Sample Desc: SOLID,SS-6(A-D)Comp				
Organic Lead	mg/Kg	08/31/95	5.0	N.D.
Lab No: 9508L08-06 Sample Desc: SOLID,SS-7(A-D)Comp				
Lead: STLC Extraction	mg/L	09/05/95	0.10	2.6
Organic Lead	mg/Kg	08/31/95	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Enviros
270 Perkins Ave.
Sonoma, CA 95476
Attention: Diane Lundquist

Client Project ID: Shell 1230 14th St., Oakland
Matrix: Solid

Work Order #: 9508L08 -01 - 06

Reported: Sep 6, 1995

QUALITY CONTROL DATA REPORT

Analyte: Organic Lead

QC Batch#: ME0830957000MDA
Analy. Method: LUFT
Prep. Method: LUFT

Analyst: R. Butler
MS/MSD #: 9508L81-01
Sample Conc.: 0.30
Prepared Date: 8/30/95
Analyzed Date: 8/31/95
Instrument I.D.#: MV2
Conc. Spiked: 0.50 mg/L

Result: 0.76
MS % Recovery: 92

Dup. Result: 0.80
MSD % Recov.: 100

RPD: 5.1
RPD Limit: 0-30

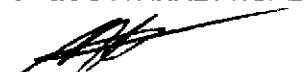
LCS #: BLK083095

Prepared Date: 8/30/95
Analyzed Date: 8/31/95
Instrument I.D.#: MV2
Conc. Spiked: 0.50 mg/L

LCS Result: 0.61
LCS % Recov.: 122

MS/MSD 75-125
LCS 75-125
Control Limits

SEQUOIA ANALYTICAL


Mike Gregory
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

9508L08.EEE < 1 >





Enviros 270 Perkins Ave. Sonoma, CA 95476 Attention: Diane Lundquist	Client Project ID: Shell 1230 14th St., Oakland Matrix: Solid Work Order #: 9508L08 - 06	Reported: Sep 6, 1995
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QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0905956010MDB	ME0905956010MDB	ME0905956010MDB	ME0905956010MDB
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3010	EPA 3010	EPA 3010	EPA 3010

Analyst:	S. O'Donnell	S. O'Donnell	S. O'Donnell	S. O'Donnell
MS/MSD #:	9508N03-06	9508N03-06	9508N03-06	9508N03-06
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/5/95	9/5/95	9/5/95	9/5/95
Analyzed Date:	9/5/95	9/5/95	9/5/95	9/5/95
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
Result:	1.0	1.0	0.99	0.97
MS % Recovery:	100	100	99	97
Dup. Result:	1.0	1.0	0.99	0.97
MSD % Recov.:	100	100	99	97
RPD:	0.0	0.0	0.0	0.0
RPD Limit:	0-30	0-30	0-30	0-30

LCS #:	BLK090595	BLK090595	BLK090595	BLK090595
Prepared Date:	9/5/95	9/5/95	9/5/95	9/5/95
Analyzed Date:	9/5/95	9/5/95	9/5/95	9/5/95
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
LCS Result:	1.1	1.1	1.0	1.0
LCS % Recov.:	110	110	100	100

MS/MSD	75-125	75-125	75-125	75-125
LCS	75-125	75-125	75-125	75-125
Control Limits				

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9508L08.EEE <2>





SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: 9528658

Date: 1/10
Page 1 of 1

Site Address: 1230 14th Street Oakland

WIC#: 204-5508-3103

Shell Engineer: Lynn Walker
Phone No.: 510 675-6169
Fax #: 675-6172

Consultant Name & Address: Enviros, Inc.
PO Box 259 Sonoma CA 95976

Consultant Contact: Diane Lundquist
Phone No.: 707 935-9852
Fax #: 935-6649

Comments:

Sampled by: J. Wesfal

Printed Name: J. Wesfal

Analysis Required

Sample ID	Date	Sludge	Soil	Water	Air	No. of confs.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	TTLC Lead	Asbestos	Container Size	Preparation Used	Composite Y/N	
SS-1 (A/F)	8/10/95		X			6					X							
SS-2 (A/D)			X			4						X	X					Y
SS-3 (A/D)			X			4						X	X					
SS-4 (A/D)			X			4						X	X					
SS-5 (A/D)			X			4						X	X					
SS-6 (A/D)			X			4						X	X					
SS-7 (A/D)			X			4						X	X					

LAB: Sequoia

CHECK ONE (1) BOX ONLY	CF/DI	TURN AROUND TIME
G.W. Monitoring <input type="checkbox"/>	4441	24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	4441	48 hours <input type="checkbox"/>
Soil Classify/Disposal <input checked="" type="checkbox"/>	4442	15 days <input checked="" type="checkbox"/> (Normal)
Water Classify/Disposal <input type="checkbox"/>	4443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	4462	
Water Rem. or Sys. O & M <input type="checkbox"/>	4463	
Other <input type="checkbox"/>		

NOTE: Notify Lab as soon as possible at 24/48 hrs. 1AT.

UST AGENCY: Alameda City

MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
See Attached - Run sample for Shell protocol for waste oil soil disposal	

Signature: <u>[Signature]</u>	Printed Name: <u>J. Wesfal</u>	Date: <u>8-10-95</u>	Time: <u>07:15</u>	Received (signature): <u>[Signature]</u>	Printed Name: <u>[Signature]</u>	Date: <u>8-10</u>	Time: <u>07:15</u>
Signature: <u>[Signature]</u>	Printed Name: <u>Diane Lundquist</u>	Date: <u>8-10-95</u>	Time: <u>10:30</u>	Received (signature): <u>[Signature]</u>	Printed Name: <u>Fletcher</u>	Date: <u>8/10/95</u>	Time: <u>10:30</u>
Signature: <u>[Signature]</u>	Printed Name: <u>[Signature]</u>	Date: <u>8/10/95</u>	Time: <u>[Time]</u>	Received (signature): <u>[Signature]</u>	Printed Name: <u>R. Iverson</u>	Date: <u>8/10/95</u>	Time: <u>[Time]</u>



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Enviros
270 Perkins Ave.
Sonoma, CA 95476
Attention: Diane Lundquist

RECEIVED
SEP 14 1995

Project: Shell 1230 14th St., Oakland

Enclosed are the results from samples received at Sequoia Analytical on August 8, 1995.
The requested analyses are listed below:

<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
9509240 -01	SOLID, SS-1(a-f)	08/08/95	Lead: TOX Extraction

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager





Enviros 270 Perkins Ave. Sonoma, CA 95476	Client Proj. ID: Shell 1230 14th St., Oakland Lab Proj. ID: 9509240	Sampled: 08/08/95 Received: 08/08/95 Analyzed: see below Reported: 09/12/95
Attention: Diane Lundquist		

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9509240-01 Sample Desc : SOLID,SS-1(a-f)				
Lead: TOX Extraction	mg/L	09/12/95	0.10	0.59

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Enviros
270 Perkins Ave.
Sonoma, CA 95476
Attention: Diane Lundquist

Client Project ID: Shell 1230 14th St., Oakland
Matrix: Liquid

Work Order #: 9509240 -01

Reported: Sep 13, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0911956010MDB	ME0911956010MDB	ME0911956010MDB	ME0911956010MDB
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3010	EPA 3010	EPA 3010	EPA 3010

Analyst:	C. Medefesser	C. Medefesser	C. Medefesser	C. Medefesser
MS/MSD #:	950917101	950917101	950917101	950917101
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/11/95	9/11/95	9/11/95	9/11/95
Analyzed Date:	9/12/95	9/12/95	9/12/95	9/12/95
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
Result:	1.0	1.0	0.97	0.96
MS % Recovery:	100	100	97	96
Dup. Result:	1.0	1.0	0.99	0.99
MSD % Recov.:	100	100	99	99
RPD:	0.0	0.0	2.0	3.1
RPD Limit:	0-30	0-30	0-30	0-30

LCS #:	BLK091195	BLK091195	BLK091195	BLK091195
Prepared Date:	9/11/95	9/11/95	9/11/95	9/11/95
Analyzed Date:	9/12/95	9/12/95	9/12/95	9/12/95
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
LCS Result:	1.0	1.0	0.99	0.98
LCS % Recov.:	100	100	99	98

MS/MSD LCS Control Limits	75-125	75-125	75-125	75-125
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Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

[Signature]
Mike Gregory
Project Manager

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

9509240.EEE <1>





SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: 9528658

Date: 5/10

Page 1 of 1

Site Address: 1230 14th Street Oakland

WIC#: 204-5508-3103

Shell Engineer:
Lynn Walker

Phone No.: 510 675-6169
 Fax #: 675-6122

Consultant Name & Address: Enviros, Inc.
PO Box 259 Sonoma CA 95476

Consultant Contact:
Diane Lundquist

Phone No.: 707 935-4852
 Fax #: 935-6699

Comments:

Sampled by: J. Werfal

Printed Name: J. Werfal

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.
SS-1 (A/F)	8/10/95		X			6
SS-2 (A/D)			X			4
SS-3 (A/D)			X			4
SS-4 (A/D)			X			4
SS-5 (A/D)			X			4
SS-6 (A/D)			X			4
SS-7 (A/D)			X			4

TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	77LC Lead	Asbestos	Container Size	Preparation Used	Composite Y/N
				X						
					X	X				Y
					X	X				
					X	X				
					X	X				
					X	X				

LAB: Sequoia

CHECK ONE (1) BOX ONLY	C1/D1	TURN AROUND TIME
G.W. Monitoring <input type="checkbox"/>	4441	24 hours <input type="checkbox"/>
SRe Investigation <input type="checkbox"/>	4443	48 hours <input type="checkbox"/>
Soil Classify/Disposal <input checked="" type="checkbox"/>	4442	16 days <input checked="" type="checkbox"/> (Normal)
Water Classify/Disposal <input type="checkbox"/>	4443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	4462	
Water Rem. or Sys. O & M <input type="checkbox"/>	4453	
Other <input type="checkbox"/>		

NOTE: Notify Lab as soon as Possible of 24/48 hrs. FAT.

UST AGENCY: Alameda City

MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
See Attached - Rin sample for Shell protocol for waste oil soil disposal	

Received by (signature): [Signature]
 Date: 8-10-95
 Time: 07:15

Printed Name: J. Werfal
 Date: 8-10-95
 Time: 10:00

Received (signature): [Signature]
 Date: 8-10-95
 Time: 10:30

Printed Name: Fletcher
 Date: 8/10/95
 Time: 11:15

Received (signature): [Signature]
 Date: 8/10/95
 Time: 11:15

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS