Weiss Associates *Environmental and Geologic Services*

5500 Shellmound Street, Emeryville, CA 94608-2411 *FAX: 510-547-5043 Phone: **510-450-6000***

TRANSMITTAL

DATE: August 24, 1995 **PROJECT #:** 81-1055-36

TO: Juliet Shin **PHONE:** (510) 567-6763

COMPANY: Alameda County
Environmental Protection Division
1131 Harbor Bay Parkway, Room 250
Alameda, CA 94502-6577

FROM: Tim Utterback, (510) 450-6193

SUBJECT: **Soil Stockpile Analytic Results,**
Shell WIC #204-5508-2808, Golf Links Rd., Oakland

95 AUG 25 PM 2:47

VIA:	FAX:	AS:	FOR:
☐ Fax	# of pages: _____ (including this cover)	☐ Per our phone call	☐ Your information
☑ 1st Class Mail	☐ Hard Copy to follow	☑ You requested	☐ Return to you
☐ Overnight Delivery		☐ Is required	☐ Your action
☐ UPS (Surface)		☐ We believe you may be interested	☑ Your review
☐ Courier			

Please call (510) 450-6000 if there are any problems with transmission.

COMMENTS: Juliet,

Enclosed is a copy of the soil stockpile analytic results for the above referenced site as requested on August 23, 1995.

J:\SHELL\1055\CORRESP.95\1055F2.AUG

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Faith Daverin

Project: Shell 9570 Golf Links, Oklnd.

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

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9503564 -01	SOLID, Comp-A	03/07/95	TRPH (EPA 418.1)
9503564 -01	SOLID, Comp-A	03/07/95	8240_S Volatile Organic Co
9503564 -01	SOLID, Comp-A	03/07/95	8270_S SemiVolatile Organi
9503564 -01	SOLID, Comp-A	03/07/95	Chromium VI
9503564 -01	SOLID, Comp-A	03/07/95	Flash Point: Open Cup
9503564 -01	SOLID, Comp-A	03/07/95	Arsenic
9503564 -01	SOLID, Comp-A	03/07/95	Cadmium
9503564 -01	SOLID, Comp-A	03/07/95	Nickel
9503564 -01	SOLID, Comp-A	03/07/95	Lead
9503564 -01	SOLID, Comp-A	03/07/95	Zinc
9503564 -01	SOLID, Comp-A	03/07/95	Organic Lead
9503564 -01	SOLID, Comp-A	03/07/95	pH
9503564 -01	SOLID, Comp-A	03/07/95	S_REAC Reactivity
9503564 -01	SOLID, Comp-A	03/07/95	TPHD_S Extractable TPH
9503564 -01	SOLID, Comp-A	03/07/95	TPHG_S Purgeable TPH
9503564 -01	SOLID, Comp-A	03/07/95	TRPH (EPA 418.1)
9503564 -01	SOLID, Comp-A	03/07/95	TPHD_S Extractable TPH
9503564 -01	SOLID, Comp-A	03/07/95	TPHG_S Purgeable TPH
9503564 -01	SOLID, Comp-A	03/07/95	TRPH (EPA 418.1)
9503564 -01	SOLID, Comp-A	03/07/95	TPHD_S Extractable TPH
9503564 -01	SOLID, Comp-A	03/07/95	TPHG_S Purgeable TPH

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SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9503564 -01	SOLID, Comp-A	03/07/95	TRPH (EPA 418.1)
9503564 -01	SOLID, Comp-A	03/07/95	TPHD_S Extractable TPH
9503564 -01	SOLID, Comp-A	03/07/95	TPHG_S Purgeable TPH

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

Sequoia Analytical

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Weiss Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Faith Daverin

Project: Shell 9570 Golf Links

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

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9504131 -01	SOLID, CompA	03/07/95	8080_S Organochlorine Pest
9504131 -01	SOLID, CompA	03/07/95	Bioassay
9504131 -01	SOLID, CompA	03/07/95	BTEX Distinction
9504131 -01	SOLID, CompA	03/07/95	ITTLCS Title 22: Metals, T
9504131 -01	SOLID, CompA	03/07/95	TCLPMS Metals
9504131 -01	SOLID, CompA	03/07/95	TCLPSS SemiVolatile
9504131 -01	SOLID, CompA	03/07/95	TCLPVS Volatiles

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

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Weiss Associates
5500 Shellmound
Emeryville, CA 94608

Attention: Faith Daverin

Client Proj. ID: Shell 9570 Golf Links, Oklnd.

Lab Proj. ID: 9503564

Sampled: 03/07/95
Received: 03/08/95
Analyzed: see below

Reported: 04/20/95

LABORATORY ANALYSIS

Lab No: 9503564-01
Sample Desc : **SOLID,Comp-A**

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Arsenic	mg/Kg	03/15/95	5.0	N.D.
Cadmium	mg/Kg	03/15/95	0.50	N.D.
Chromium VI	mg/Kg	03/09/95	1.0	N.D.
Flash Point: Open Cup	**N/A**	**03/15/95**	**N/A**	**NEGATIVE**
Lead	**mg/Kg**	**03/15/95**	**5.0**	**23**
Nickel	**mg/Kg**	**03/15/95**	**2.5**	**45**
Organic Lead	mg/Kg	03/23/95	0.40	N.D.
pH	**pH Units**	**03/09/95**	**N/A**	**7.3**
TRPH (EPA 418.1)	**mg/Kg**	**03/24/95**	**15**	**130**
Zinc	**mg/Kg**	**03/15/95**	**0.50**	**98**

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

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Weiss Associates	Client Proj. ID: Shell 9570 Golf Links, Oklnd.	Sampled: 03/07/95
5500 Shellmound	Sample Descript: Comp-A	Received: 03/08/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 03/15/95
	Analysis Method: EPA 8240	Analyzed: 03/15/95
Attention: Faith Daverin	Lab Number: 9503564-01	Reported: 04/20/95

QC Batch Number: MS0315958240EXA
Instrument ID: F3

Volatile Organics (EPA 8240)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Acetone	500	N.D.
Benzene	100	N.D.
Bromodichloromethane	100	N.D.
Bromoform	100	N.D.
Bromomethane	100	N.D.
2-Butanone	500	N.D.
Carbon disulfide	100	N.D.
Carbon tetrachloride	100	N.D.
Chlorobenzene	100	N.D.
Chloroethane	100	N.D.
2-Chloroethyl vinyl ether	500	N.D.
Chloroform	100	N.D.
Chloromethane	100	N.D.
Dibromochloromethane	100	N.D.
1,1-Dichloroethane	100	N.D.
1,2-Dichloroethane	100	N.D.
1,1-Dichloroethene	100	N.D.
cis-1,2-Dichloroethene	100	N.D.
trans-1,2-Dichloroethene	100	N.D.
1,2-Dichloropropane	100	N.D.
cis-1,3-Dichloropropene	100	N.D.
trans-1,3-Dichloropropene	100	N.D.
Ethylbenzene	100	N.D.
2-Hexanone	500	N.D.
Methylene chloride	250	N.D.
4-Methyl-2-pentanone	500	N.D.
Styrene	100	N.D.
1,1,2,2-Tetrachloroethane	100	N.D.
Tetrachloroethene	100	N.D.
Toluene	100	N.D.
1,1,1-Trichloroethane	100	N.D.
1,1,2-Trichloroethane	100	N.D.
Trichloroethene	100	N.D.
Trichlorofluoromethane	100	N.D.
Vinyl acetate	100	N.D.

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Weiss Associates	Client Proj. ID: Shell 9570 Golf Links, Oklnd.	Sampled: 03/07/95
5500 Shellmound	Sample Descript: Comp-A	Received: 03/08/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 03/15/95
	Analysis Method: EPA 8240	Analyzed: 03/15/95
Attention: Faith Daverin	Lab Number: 9503564-01	Reported: 04/20/95

QC Batch Number: MS0315958240EXA
Instrument ID: F3

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Vinyl chloride	100	N.D.
Total Xylenes	100	N.D.

Surrogates	Control Limits %		% Recovery
1,2-Dichloroethane-d4	70	121	80
Toluene-d8	81	117	90
4-Bromofluorobenzene	74	121	90

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Weiss Associates	Client Proj. ID: Shell 9570 Golf Links, Oklnd.	Sampled: 03/07/95
5500 Shellmound	Sample Descript: Comp-A	Received: 03/08/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 03/15/95
	Analysis Method: EPA 8270	Analyzed: 03/16/95
Attention: Faith Daverin	Lab Number: 9503564-01	Reported: 04/20/95

QC Batch Number: MS0311958270EXA
Instrument ID: H5

Semivolatile Organics (EPA 8270)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Acenaphthene	500	N.D.
Acenaphthylene	500	N.D.
Anthracene	500	N.D.
Benzoic Acid	1000	N.D.
Benzo(a)anthracene	500	N.D.
Benzo(b)fluoranthene	500	N.D.
Benzo(k)fluoranthene	500	N.D.
Benzo(g,h,i)perylene	500	N.D.
Benzo(a)pyrene	500	N.D.
Benzyl alcohol	500	N.D.
Bis(2-chloroethoxy)methane	500	N.D.
Bis(2-chloroethyl)ether	500	N.D.
Bis(2-chloroisopropyl)ether	500	N.D.
Bis(2-ethylhexyl)phthalate	1000	N.D.
4-Bromophenyl phenyl ether	500	N.D.
Butyl benzyl phthalate	500	N.D.
4-Chloroaniline	1000	N.D.
2-Chloronaphthalene	500	N.D.
4-Chloro-3-methylphenol	500	N.D.
2-Chlorophenol	500	N.D.
4-Chlorophenyl phenyl ether	500	N.D.
Chrysene	500	N.D.
Dibenzo(a,h)anthracene	500	N.D.
Dibenzofuran	500	N.D.
Di-n-butyl phthalate	1000	N.D.
1,2-Dichlorobenzene	500	N.D.
1,3-Dichlorobenzene	500	N.D.
1,4-Dichlorobenzene	500	N.D.
3,3-Dichlorobenzidine	1000	N.D.
2,4-Dichlorophenol	500	N.D.
Diethyl phthalate	500	N.D.
2,4-Dimethylphenol	500	N.D.
Dimethyl phthalate	500	N.D.
4,6-Dinitro-2-methylphenol	1000	N.D.
2,4-Dinitrophenol	1000	N.D.

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Weiss Associates	Client Proj. ID: Shell 9570 Golf Links, Oklnd.	Sampled: 03/07/95
5500 Shellmound	Sample Descript: Comp-A	Received: 03/08/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 03/15/95
	Analysis Method: EPA 8270	Analyzed: 03/16/95
Attention: Faith Daverin	Lab Number: 9503564-01	Reported: 04/20/95

QC Batch Number: MS0311958270EXA
Instrument ID: H5

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
2,4-Dinitrotoluene	500	N.D.
2,6-Dinitrotoluene	500	N.D.
Di-n-octyl phthalate	500	N.D.
Fluoranthene	500	N.D.
Fluorene	500	N.D.
Hexachlorobenzene	500	N.D.
Hexachlorobutadiene	500	N.D.
Hexachlorocyclopentadiene	1000	N.D.
Hexachloroethane	500	N.D.
Indeno(1,2,3-cd)pyrene	500	N.D.
Isophorone	500	N.D.
2-Methylnaphthalene	500	N.D.
2-Methylphenol	500	N.D.
4-Methylphenol	500	N.D.
Naphthalene	500	N.D.
2-Nitroaniline	1000	N.D.
3-Nitroaniline	1000	N.D.
4-Nitroaniline	1000	N.D.
Nitrobenzene	500	N.D.
2-Nitrophenol	500	N.D.
4-Nitrophenol	1000	N.D.
N-Nitrosodiphenylamine	500	N.D.
N-Nitroso-di-n-propylamine	500	N.D.
Pentachlorophenol	1000	N.D.
Phenanthrene	500	N.D.
Phenol	500	N.D.
Pyrene	500	N.D.
1,2,4-Trichlorobenzene	500	N.D.
2,4,5-Trichlorophenol	1000	N.D.
2,4,6-Trichlorophenol	500	N.D.

Surrogates	Control Limits %		% Recovery
2-Fluorophenol	25	121	49
Phenol-d5	24	113	55
Nitrobenzene-d5	23	120	52
2-Fluorobiphenyl	30	115	58
2,4,6-Tribromophenol	19	122	43
p-Terphenyl-d14	18	137	63

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

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Weiss Associates	Client Proj. ID: Shell 9570 Golf Links, Oklnd.	Sampled: 03/07/95
5500 Shellmound	Sample Descript: Comp-A	Received: 03/08/95
Emeryville, CA 94608	Matrix: SOLID	
	Analysis Method: Comb	Analyzed: 03/13/95
Attention: Faith Daverin	Lab Number: 9503564-01	Reported: 04/20/95

QC Batch Number: IN031095084600A

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.

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Mike Gregory
Project Manager

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Weiss Associates	Client Proj. ID: Shell 9570 Golf Links, Oklnd.	Sampled: 03/07/95
5500 Shellmound	Sample Descript: Comp-A	Received: 03/08/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 03/23/95
	Analysis Method: EPA 8015 Mod	Analyzed: 03/27/95
Attention: Faith Daverin	Lab Number: 9503564-01	Reported: 04/20/95

QC Batch Number: GC0320950HBPEXA
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	**20**	**28**
Chromatogram Pattern:		
Unidentified HC		**C18-C24**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	Q

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

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Weiss Associates	Client Proj. ID: Shell 9570 Golf Links, Oklnd.	Sampled: 03/07/95
5500 Shellmound	Sample Descript: Comp-A	Received: 03/08/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 03/23/95
	Analysis Method: EPA 8015 Mod	Analyzed: 03/23/95
Attention: Faith Daverin	Lab Number: 9503564-01	Reported: 04/20/95

QC Batch Number: GC032395BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Chromatogram Pattern:		
Discrete Peak	....	**C7**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	98

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

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Weiss Associates	Client Proj. ID: Shell 9570 Golf Links, Oklnd.	Sampled: 03/07/95
5500 Shellmound	Sample Descript: Comp-A	Received: 03/08/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 03/23/95
	Analysis Method: EPA 8015 Mod	Analyzed: 03/27/95
Attention: Faith Daverin	Lab Number: 9503564-01	Reported: 04/20/95

QC Batch Number: GC0320950HBPEXA
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	5.0	**19**
Chromatogram Pattern:		
Unidentified HC		**C18-C24**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	Q

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

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Weiss Associates	Client Proj. ID: Shell 9570 Golf Links, Oklnd.	Sampled: 03/07/95
5500 Shellmound	Sample Descript: Comp-A	Received: 03/08/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 03/23/95
	Analysis Method: EPA 8015 Mod	Analyzed: 03/23/95
Attention: Faith Daverin	Lab Number: 9503564-01	Reported: 04/20/95

QC Batch Number: GC032395BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas Chromatogram Pattern:	1.0	N.D.

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	88

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

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Mike Gregory
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Weiss Associates	Client Proj. ID: Shell 9570 Golf Links, Oklnd.	Sampled: 03/07/95
5500 Shellmound	Sample Descript: Comp-A	Received: 03/08/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 03/23/95
	Analysis Method: EPA 8015 Mod	Analyzed: 03/24/95
Attention: Faith Daverin	Lab Number: 9503564-01	Reported: 04/20/95

QC Batch Number: GC0320950HBPEXA
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	100	**180**
Chromatogram Pattern:		
Unidentified HC		**C18-C24**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	Q

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

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Weiss Associates	Client Proj. ID: Shell 9570 Golf Links, Oklnd.	Sampled: 03/07/95
5500 Shellmound	Sample Descript: Comp-A	Received: 03/08/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 03/23/95
	Analysis Method: EPA 8015 Mod	Analyzed: 03/23/95
Attention: Faith Daverin	Lab Number: 9503564-01	Reported: 04/20/95

QC Batch Number: GC032395BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas Chromatogram Pattern:	1.0	N.D.

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	75

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Proj. ID: Shell 9570 Golf Links, Oklnd.	Sampled: 03/07/95
5500 Shellmound	Sample Descript: Comp-A	Received: 03/08/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 03/23/95
	Analysis Method: EPA 8015 Mod	Analyzed: 03/24/95
Attention: Faith Daverin	Lab Number: 9503564-01	Reported: 04/20/95

QC Batch Number: GC0320950HBPEXA
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	10	54
Chromatogram Pattern:		
Unidentified HC		C18-C24

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	Q

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

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Weiss Associates	Client Proj. ID: Shell 9570 Golf Links, Oklnd.	Sampled: 03/07/95
5500 Shellmound	Sample Descript: Comp-A	Received: 03/08/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 03/23/95
	Analysis Method: EPA 8015 Mod	Analyzed: 03/23/95
Attention: Faith Daverin	Lab Number: 9503564-01	Reported: 04/20/95

QC Batch Number: GC032395BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	99

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

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Weiss Associates	Client Proj. ID: Shell 9570 Golf Links	Sampled: 03/07/95
5500 Shellmound	Sample Descript: CompA	Received: 03/08/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 04/06/95
	Analysis Method: EPA 8080	Analyzed: 04/07/95
Attention: Faith Daverin	Lab Number: 9504131-01	Reported: 04/14/95

QC Batch Number: GC0406958080EXA
Instrument ID: GCHP10

Organochlorine Pesticides and PCBs (EPA 8080)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Aldrin	5.0	N.D.
alpha-BHC	5.0	N.D.
beta-BHC	5.0	N.D.
delta-BHC	5.0	N.D.
gamma-BHC (Lindane)	5.0	N.D.
Chlordane	**50**	**61**
4,4'-DDD	30	N.D.
4,4'-DDE	10	N.D.
4,4'-DDT	30	N.D.
Dieldrin	10	N.D.
Endosulfan I	10	N.D.
Endosulfan II	10	N.D.
Endosulfan sulfate	30	N.D.
Endrin	10	N.D.
Endrin aldehyde	30	N.D.
Heptachlor	5.0	N.D.
Heptachlor epoxide	5.0	N.D.
Methoxychlor	100	N.D.
Toxaphene	400	N.D.
PCB-1016	100	N.D.
PCB-1221	400	N.D.
PCB-1232	100	N.D.
PCB-1242	100	N.D.
PCB-1248	100	N.D.
PCB-1254	100	N.D.
PCB-1260	100	N.D.

Surrogates	Control Limits %		% Recovery
Dibutylchlorendate	30	150	68

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

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Weiss Associates	Client Proj. ID: Shell 9570 Golf Links	Sampled: 03/07/95
5500 Shellmound	Sample Descript: CompA	Received: 03/08/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 03/13/95
	Analysis Method: EPA 8020	Analyzed: 03/14/95
Attention: Faith Daverin	Lab Number: 9504131-01	Reported: 04/14/95

QC Batch Number: GC031395BTEXEXA
Instrument ID: GCHP6

BTEX Distinction

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
Benzene	0.0050	N.D.
Toluene	**0.0050**	**0.013**
Ethyl benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	95

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

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Weiss Associates	Client Proj. ID: Shell 9570 Golf Links	Sampled: 03/07/95
5500 Shellmound	Sample Descript: CompA	Received: 03/08/95
Emeryville, CA 94608	Matrix: SOLID	
	Analysis Method: Title 22	Analyzed: 04/12/95
Attention: Faith Daverin	Lab Number: 9504131-01	Reported: 04/14/95

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**	**39**
Arsenic, As	500	5.0	N.D.
Barium, Ba	**10000**	**5.0**	**130**
Beryllium, Be	75	0.50	N.D.
Cadmium, Cd	100	0.50	N.D.
Chromium, Cr	**2500**	**0.50**	**48**
Chromium, Cr (VI)	**500**	**0.050**	**-**
Cobalt, Co	**8000**	**2.5**	**14**
Copper, Cu	**2500**	**0.50**	**39**
Lead, Pb	**1000**	**5.0**	**23**
Mercury, Hg	**20**	**0.010**	**0.043**
Molybdenum, Mo	3500	2.5	N.D.
Nickel, Ni	**2000**	**2.5**	**45**
Selenium, Se	100	5.0	N.D.
Silver, Ag	500	0.50	N.D.
Thallium, Tl	**700**	**5.0**	**12**
Vanadium, V	**2400**	**2.5**	**43**
Zinc, Zn	**5000**	**0.50**	**98**
Asbestos, fibers/g	10000		--
Fluoride salts	18000	1.0	--

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

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Weiss Associates	Client Proj. ID: Shell 9570 Golf Links	Sampled: 03/07/95
5500 Shellmound	Sample Descript: CompA	Received: 03/08/95
Emeryville, CA 94608	Matrix: SOLID	
	Analysis Method: EPA6010/7470	Analyzed: 04/12/95
Attention: Faith Daverin	Lab Number: 9504131-01	Reported: 04/14/95

TCLP Metals

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

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

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Project Manager

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Weiss Associates	Client Proj. ID: Shell 9570 Golf Links	Sampled: 03/07/95
5500 Shellmound	Sample Descript: CompA	Received: 03/08/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 04/11/95
	Analysis Method: EPA 8270	Analyzed: 04/11/95
Attention: Faith Daverin	Lab Number: 9504131-01	Reported: 04/14/95

QC Batch Number: MS0329958270EXA
Instrument ID: H5

TCLP Semivolatiles (EPA 8270)

Analyte	Max. Limit mg/L	Detection Limit mg/L	Sample Results mg/L
Total Cresol	200	0.011	N.D.
1,4-Dichlorobenzene	7.5	0.011	N.D.
2,4-Dinitrotoluene	0.13	0.011	N.D.
Hexachlorobenzene	0.13	0.011	N.D.
Hexachloro-1,3-butadiene	0.5	0.011	N.D.
Hexachloroethane	3.0	0.011	N.D.
Nitrobenzene	2.0	0.011	N.D.
Pentachlorophenol	100	0.053	N.D.
Pyridine	5.0	0.053	N.D.
2,4,5-Trichlorophenol	400	0.053	N.D.
2,4,6-Trichlorophenol	2.0	0.011	N.D.

Surrogates	Control Limits %		% Recovery
2-Fluorophenol	21	110	32
Phenol-d6	10	110	37
Nitrobenzene-d5	35	114	81
2-Fluorobiphenyl	43	116	84
2,4,6-Tribromophenol	10	123	27

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

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Weiss Associates	Client Proj. ID: Shell 9570 Golf Links	Sampled: 03/07/95
5500 Shellmound	Sample Descript: CompA	Received: 03/08/95
Emeryville, CA 94608	Matrix: SOLID	Extracted: 04/11/95
	Analysis Method: EPA 8240	Analyzed: 04/12/95
Attention: Faith Daverin	Lab Number: 9504131-01	Reported: 04/14/95

QC Batch Number: MS0412958240H6A
Instrument ID: H6

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	114	93
Toluene-d8	88	110	100
4-Bromofluorobenzene	86	115	100

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

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Weiss Associates	Client Project ID: Shell 9570 Golf Links	Sampled: 3/7/95
5500 Shellmound	Sample Descript: Comp A	Received: 3/8/95
Emeryville, CA 94608	Analysis Method: See below	
Attention: Faith Daverin	Lab Number: 9504-131 -01	Reported: 4/14/95

STATIC ACUTE HAZARDOUS WASTE BIOASSAY - DEFINITIVE

Species: Pimephales promelas
Common Name: Fathead Minnow

Mean length: 32 mm
Min. length: 29 mm
Max. length: 35 mm
Mean weight: 0.39 g
Min. weight: 0.38 g
Max. weight: 0.48 g

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

Control Water: Synthetic Softwater
Hardness 40-48

	Alkalinity, mg/L		Hardness, mg/L	
	Initial	Final	Initial	Final
Control	35	29	48	44
1000 ppm	24	31	44	46
Duplicate 1000 ppm	20	31	44	46

	Initial			24 Hr				48 Hr				72 Hr				96 Hr				
DATE	4/5/95			4/6/95				4/7/95				4/8/95				4/9/95				
	DO mg/L	C Temp	pH Units	DO mg/L	C Temp	pH Units	# M Dead	DO mg/L	C Temp	pH Units	# M Dead	DO mg/L	C Temp	pH Units	# M Dead	DO mg/L	C Temp	pH Units	# M Dead	Total Dead
Control	7.4	19	7.4	8.6	19	7.5	0	8.5	19	7.5	0	8.5	19	7.1	0	7.9	19	7.2	0	0
1000 ppm	9.2	19	7.3	7.4	19	7.4	0	7.3	19	7.3	0	9.5	19	7.1	1	6.9	19	7.1	0	1
560 ppm	9.1	19	7.2	7.4	19	7.3	0	7.3	19	7.3	0	9.3	19	7.1	1	7.0	19	7.1	0	1
320 ppm	9.0	19	7.2	7.4	19	7.3	0	7.3	19	7.3	0	9.5	19	7.1	0	7.2	19	7.2	0	0
180 ppm	9.1	19	7.3	7.5	19	7.4	0	7.4	19	7.4	0	9.7	19	7.1	5	7.0	19	7.1	0	5
100 ppm	9.1	19	7.3	7.5	19	7.3	0	7.4	19	7.4	0	9.8	19	7.1	0	7.0	19	7.1	0	0

Duplicate	DO mg/L	C Temp	pH Units	DO mg/L	C Temp	pH Units	# M Dead	DO mg/L	C Temp	pH Units	# M Dead	DO mg/L	C Temp	pH Units	# M Dead	DO mg/L	C Temp	pH Units	# M Dead	Total Dead
1000 ppm	9.2	19	7.3	7.4	19	7.3	0	7.2	19	7.3	0	9.5	19	7.1	1	7.0	19	7.1	1	2
560 ppm	9.2	19	7.4	7.5	19	7.4	0	7.2	19	7.3	0	9.3	19	7.1	1	7.1	19	7.2	0	1
320 ppm	9.1	19	7.4	7.4	19	7.3	0	7.3	19	7.4	0	9.5	19	7.1	0	7.1	19	7.2	1	1
180 ppm	9.0	19	7.3	7.5	19	7.3	0	7.4	19	7.4	0	9.7	19	7.1	0	7.0	19	7.1	0	0
100 ppm	9.0	19	7.3	7.5	19	7.3	0	7.4	19	7.3	0	9.8	19	7.1	0	7.2	19	7.1	0	0

LC-50: _____

LC-50 Calculation Method: Binomial

Remarks: # M for 4/8 in 180 ppm A is 3

Analyst: M.Otte/
B. Barney

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

SEQUOIA ANALYTICAL

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Weiss Associates	Client Proj. ID: Shell 9570 Golf Links, Oklnd.	Received: 03/08/95
5500 Shellmound		
Emeryville, CA 94608	Lab Proj. ID: 9503564	Reported: 04/20/95
Attention: Faith Daverin		

LABORATORY NARRATIVE

tPHD: The blank had a positive hit of 17.ppm but the sample was much higher.
tphg s--01a--had a discrete peak hit.

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Weiss & Associates	Client Project ID:	Shell/Golf Links Rd, Oakland	
5500 Shellmound	Matrix:	Solid	
Emeryville, CA 94608			
Attention: Faith Daverin	Work Order #:	9503564 -01 Comp.	Reported: Mar 28, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel
QC Batch#:	GC031395BTEXEXA	GC031395BTEXEXA	GC031395BTEXEXA	GC031395BTEXEXA	GC0313950HBPEXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015 M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 3550
Analyst:	G.Garcia	G.Garcia	G.Garcia	G.Garcia	B.A.li
MS/MSD #:	G9503518-01	G9503518-01	G9503518-01	G9503518-01	9503739-05
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	1.7
Prepared Date:	3/13/95	3/13/95	3/13/95	3/13/95	3/13/95
Analyzed Date:	3/14/95	3/14/95	3/14/95	3/14/95	3/14/95
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6	GCHP4B
Conc. Spiked:	0.20 mg/kg	0.20 mg/kg	0.20 mg/kg	0.60 mg/kg	15 mg/kg
Result:	0.19	0.19	0.19	0.57	7.4
MS % Recovery:	95	95	95	95	38
Dup. Result:	0.18	0.18	0.18	0.54	7.1
MSD % Recov.:	90	90	90	90	36
RPD:	5.4	5.4	5.4	5.4	4.1
RPD Limit:	0-50	0-50	0-50	0-50	0-50

LCS #:	BLK031395
Prepared Date:	3/13/95
Analyzed Date:	3/14/95
Instrument I.D.#:	GCHP4B
Conc. Spiked:	15 mg/kg
LCS Result:	8.4
LCS % Recov.:	56

MS/MSD Control Limits	55-145	47-149	47-155	56-140	
LCS Control Limits					38-122

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

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Weiss & Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Faith Daverin

Client Project ID: Shell/Golf Links Rd, Oakland
Matrix: Solid
Work Order #: 9503564 -01 (A,B,C,D)
Reported: Mar 28, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel
QC Batch#:	GC032395BTEXEXA	GC032395BTEXEXA	GC032395BTEXEXA	GC032395BTEXEXA	GC0320950HBPEXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015 M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 3550
Analyst:	G.Garcia	G.Garcia	G.Garcia	G.Garcia	B.A.li
MS/MSD #:	G9503B52-01	G9503B52-01	G9503B52-01	G9503B52-01	9503B58-04
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	3.9
Prepared Date:	3/23/95	3/23/95	3/23/95	3/23/95	2/20/95
Analyzed Date:	3/23/95	3/23/95	3/23/95	3/23/95	3/22/95
Instrument I.D.#:	GCHP18	GCHP18	GCHP18	GCHP18	GCHP4A
Conc. Spiked:	0.20 mg/kg	0.20 mg/kg	0.20 mg/kg	0.60 mg/kg	15 mg/kg
Result:	1.8	0.19	0.19	0.56	12
MS % Recovery:	90	95	95	93	54
Dup. Result:	0.18	0.18	0.18	0.55	11
MSD % Recov.:	90	90	90	92	47
RPD:	0.0	5.4	5.4	1.8	8.7
RPD Limit:	0-50	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	38-122

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

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

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss & Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Faith Daverin

Client Project ID: Shell/Golf Links Rd, Oakland
Matrix: Solid
Work Order #: 9503564 -01 Comp.
Reported: Mar 28, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Total Recoverable Pet. Hydrocarbons	Reactive Cyanide	Reactive Sulfide	Organic Lead	Hexavalent Chromium
QC Batch#:	IN0314954181FTA	IN031395084600A	IN031395084600A	ME032095LUFTMDA	IN030895719600B
Analy. Method:	EPA 418.1	SW-846	SW-846	LUFT	EPA 7196
Prep. Method:	EPA 418.1	N.A.	N.A.	LUFT	N.A.
Analyst:	D. Williams	A. Pina	K. Newberry	J. Martinez	C.Hirotsu
MS/MSD #:	9503685-01			9503C63-01	9503446-01
Sample Conc.:	N.D.			N.D.	N.D.
Prepared Date:	3/14/95			3/20/95	3/8/95
Analyzed Date:	3/14/95			3/20/95	3/8/95
Instrument I.D.#:	FTIR			MV2	MANUAL
Conc. Spiked:	230 mgkg			2.0 mg/kg	200 mg/kg
Result:	220			2.6	200
MS % Recovery:	96			130	100
Dup. Result:	210			2.4	200
MSD % Recov.:	91			120	100
RPD:	4.7			8.0	0.0
RPD Limit:	0-30			0-30	0-40

LCS #:	LCS031395	LCS031395
Prepared Date:	3/13/95	3/13/95
Analyzed Date:	3/13/95	3/13/95
Instrument I.D.#:	MANUAL	MANUAL
Conc. Spiked:	0.20 mg/L	10 mg/L
LCS Result:	0.065	9.7
LCS % Recov.:	33	97

MS/MSD	60-140			75-125	60-140
LCS		6.5-40	80-120		
Control Limits					

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

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Weiss & Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Faith Daverin

Client Project ID: Shell/Golf Links Rd, Oakland
Matrix: Solid
Work Order #: 9503564 -01 (A,B,C,D)
Reported: Mar 28, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Total Recoverable Pet. Hydrocarbons
QC Batch#:	IN0324954181FTA
Analy. Method:	EPA 418.1
Prep. Method:	EPA 418.1

Analyst:	D. Williams
MS/MSD #:	9503685-01
Sample Conc.:	N.D.
Prepared Date:	3/24/95
Analyzed Date:	3/24/95
Instrument I.D.#:	FTIR
Conc. Spiked:	230 mgkg
Result:	220
MS % Recovery:	87
Dup. Result:	170
MSD % Recov.:	74
RPD:	16
RPD Limit:	0-30

LCS #:	
Prepared Date:	
Analyzed Date:	
Instrument I.D.#:	
Conc. Spiked:	
LCS Result:	
LCS % Recov.:	

MS/MSD LCS Control Limits	60-140

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

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Weiss & Associates	Client Project ID:	Shell/Golf Links Rd, Oakland		
5500 Shellmound	Matrix:	Solid		
Emeryville, CA 94608				
Attention: Faith Daverin	Work Order #:	9503564	-01 Comp.	Reported: Mar 28, 1995

QUALITY CONTROL DATA REPORT

Analyte:	pH	Flashpoint
QC Batch:	IN030895904500A	IN0315951010A
Analy. Method:	EPA 9045	Shell Open Cup
Prep Method:	EPA 9045	Shell Open Cup
Analyst:	Y.Arteaga	K.Newberry
Duplicate Sample #:	9503448-05	9503724-01
Prepared Date:	3/8/95	3/15/95
Analyzed Date:	3/8/95	3/15/95
Instrument I.D.#:	MANUAL	N.A.
Sample Concentration:	7.5	Negative
Dup. Sample Concentration:	7.6	Negative
RPD:	1.3	0.0
RPD Limit:	0-30	0-30

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

** RPD = Relative % Difference

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Weiss & Associates	Client Project ID:	Shell/Golf Links Rd, Oakland	
5500 Shellmound	Matrix:	Solid	
Emeryville, CA 94608			
Attention: Faith Daverin	Work Order #:	9503564 -01 Comp.	Reported: Mar 28, 1995

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloroethene	Trichloroethene	Benzene	Toluene	Chloro-benzene
QC Batch#:	IN0315958240EXA	IN0315958240EXA	IN0315958240EXA	IN0315958240EXA	IN0315958240EXA
Analy. Method:	EPA 8240	EPA 8240	EPA 8240	EPA 8240	EPA 8240
Prep. Method:	-	-	-	-	-
Analyst:	B.Pitamah	B.Pitamah	B.Pitamah	B.Pitamah	B.Pitamah
MS/MSD #:	9503876-01	9503876-01	9503876-01	9503876-01	9503876-01
Sample Conc.:	N.D.	240	N.D.	N.D.	N.D.
Prepared Date:	3/15/95	3/15/95	3/15/95	3/15/95	3/15/95
Analyzed Date:	3/15/95	3/15/95	3/15/95	3/15/95	3/15/95
Instrument I.D.#:	MSF3	MSF3	MSF3	MSF3	MSF3
Conc. Spiked:	2500 ug/kg	2500 ug/kg	2500 ug/kg	2500 ug/kg	2500 ug/kg
Result:	2200	2600	2300	2500	2500
MS % Recovery:	88	96	92	100	100
Dup. Result:	2300	2600	2500	2700	2600
MSD % Recov.:	92	96	100	18	104
RPD:	4.4	0.0	8.3	7.7	3.9
RPD Limit:	0-50	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	DL-234	71-157	37-151	47-150	37-160

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

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Weiss & Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Faith Daverin

Client Project ID: Shell/Golf Links Rd, Oakland
Matrix: Solid
Work Order #: 9503564 -01 Comp.
Reported: Mar 28, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel	Hexavalent Chromium
QC Batch#:	ME0314956010MDD	ME0314956010MDD	ME0314956010MDD	ME0314956010MDD	IN03089571960003
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010	EPA 7196
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050	N.A.
Analyst:	C.Medefesser	C.Medefesser	C.Medefesser	C.Medefesser	C.Hirotsu
MS/MSD #:	9503685-01	9503685-01	9503685-01	9503685-01	9503446-01
Sample Conc.:	N.D.	1.0	36	71	N.D.
Prepared Date:	3/14/95	3/14/95	3/14/95	3/14/95	3/8/95
Analyzed Date:	3/15/95	3/15/95	3/15/95	3/15/95	3/8/95
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2	MANUAL
Conc. Spiked:	100 mg/kg	100 mg/kg	100 mg/kg	100 mg/kg	200 mg/kg
Result:	97	199	140	150	200
MS % Recovery:	97	99	104	79	100
Dup. Result:	97	99	130	130	200
MSD % Recov.:	97	98	94	59	100
RPD:	0.0	1.0	7.4	14	0.0
RPD Limit:	0-30	0-30	0-30	0-30	0-40

LCS #:					
Prepared Date:					
Analyzed Date:					
Instrument I.D.#:					
Conc. Spiked:					
LCS Result:					
LCS % Recov.:					
MS/MSD LCS Control Limits	75-125	75-125	75-125	75-125	60-140

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

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Weiss & Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Faith Daverin

Client Project ID: Shell/Golf Links Rd, Oakland
Matrix: Solid
Work Order #: 9503564 -01 Comp.
Reported: Mar 28, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Phenol	2-Chlorophenol	1,4-Dichloro benzene	N-Nitroso-Di-N-propylamine
QC Batch#:	MS0311958270EXA	MS0311958270EXA	MS0311958270EXA	MS0311958270EXA
Analy. Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3550	EPA 3550	EPA 3550	EPA 3550
Analyst:	L.Duong	L.Duong	L.Duong	L.Duong
MS/MSD #:	9503276-01	9503276-01	9503276-01	9503276-01
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/11/95	3/11/95	3/11/95	3/11/95
Analyzed Date:	3/16/95	3/16/95	3/16/95	3/16/95
Instrument I.D.#:	GCHP5	GCHP5	GCHP5	GCHP5
Conc. Spiked:	3300 ug/kg	3300 ug/kg	3300 ug/kg	3300 ug/kg
Result:	2800	2400	2400	2300
MS % Recovery:	85	73	73	70
Dup. Result:	3000	2600	2400	2400
MSD % Recov.:	91	79	73	73
RPD:	6.9	8.0	0.0	4.3
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	5-112	23-134	20-124	DL-230

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SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

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Weiss & Associates	Client Project ID:	Shell/Golf Links Rd, Oakland	
5500 Shellmound	Matrix:	Solid	
Emeryville, CA 94608			
Attention: Faith Daverin	Work Order #:	9503564 -01 Comp.	Reported: Mar 28, 1995

QUALITY CONTROL DATA REPORT

Analyte:	1,2,4-Trichloro benzene	4-Chloro-3 Methylphenol	Acenaphthene	4-Nitrophenol
QC Batch#:	MS0311958270EXA	MS0311958270EXA	MS0311958270EXA	MS0311958270EXA
Analy. Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3550	EPA 3550	EPA 3550	EPA 3550
Analyst:	L.Duong	L.Duong	L.Duong	L.Duong
MS/MSD #:	9503276-01	9503276-01	9503276-01	9503276-01
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/11/95	3/11/95	3/11/95	3/11/95
Analyzed Date:	3/16/95	3/16/95	3/16/95	3/16/95
Instrument I.D.#:	GCHP5	GCHP5	GCHP5	GCHP5
Conc. Spiked:	3300 ug/kg	3300 ug/kg	3300 ug/kg	3300 ug/kg
Result:	2500	2400	2300	1400
MS % Recovery:	76	73	70	42
Dup. Result:	2500	2600	2400	1800
MSD % Recov.:	76	79	73	55
RPD:	0.0	8.0	4.3	25
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	44-142	22-147	47-145	DL-132

SEQUOIA ANALYTICAL

Mike Gregory
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Weiss & Associates	Client Project ID:	Shell/Golf Links Rd, Oakland	
5500 Shellmound	Matrix:	Solid	
Emeryville, CA 94608			
Attention: Faith Daverin	Work Order #:	9503564 -01 Comp.	Reported: Mar 28, 1995

QUALITY CONTROL DATA REPORT

Analyte:	2,4-Dinitro-toluene	Pentachloro-phenol	Pyrene
QC Batch#:	MS0311958270EXA	MS0311958270EXA	MS0311958270EXA
Analy. Method:	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3550	EPA 3550	EPA 3550
Analyst:	L.Duong	L.Duong	L.Duong
MS/MSD #:	9503276-01	9503276-01	9503276-01
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	3/11/95	3/11/95	3/11/95
Analyzed Date:	3/16/95	3/16/95	3/16/95
Instrument I.D.#:	GCHP5	GCHP5	GCHP5
Conc. Spiked:	3300 ug/kg	3300 ug/kg	3300 ug/kg
Result:	1900	1300	2200
MS % Recovery:	58	39	67
Dup. Result:	2100	1200	2400
MSD % Recov.:	64	36	73
RPD:	10	8.0	8.7
RPD Limit:	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	39-139	14-176	52-115

SEQUOIA ANALYTICAL

Mike Gregory
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Weiss Associates	Client Project ID:	Shell 9570 Golf Links	
5500 Shellmound	Matrix:	Liquid	
Emeryville, CA 94608			
Attention: Faith Daverin	Work Order #:	9504131 -01	Reported: Apr 14, 1995

QUALITY CONTROL DATA REPORT

Analyte:	1,4-Dichloro-benzene	2,4-Dinitro-toluene	Pentachloro-phenol
QC Batch#:	MS0329958270EXA	MS0329958270EXA	MS0329958270EXA
Analy. Method:	EPA 1311	EPA 1311	EPA 1311
Prep. Method:	EPA 1311	EPA 1311	EPA 1311
Analyst:	Son Le	Son Le	Son Le
MS/MSD #:	9503J2101	9503J2101	9503J2101
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	3/29/95	3/29/95	3/29/95
Analyzed Date:	4/3/95	4/3/95	4/3/95
Instrument I.D.#:	GCMS1	GCMS1	GCMS1
Conc. Spiked:	400 µg/L	400 µg/L	400 µg/L
Result:	210	260	240
MS % Recovery:	53	65	60
Dup. Result:	220	280	280
MSD % Recov.:	55	70	70
RPD:	4.7	7.4	15
RPD Limit:	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	20-124	39-139	14-176

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

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Weiss Associates	Client Project ID:	Shell 9570 Golf Links	
5500 Shellmound	Matrix:	Liquid	
Emeryville, CA 94608			
Attention: Faith Daverin	Work Order #:	9504131-01	Reported: Apr 14, 1995

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloroethene	Trichloroethene	Benzene	Toluene	Chloro-benzene
QC Batch#:	MS0412958240H16A	MS0412958240H16A	MS0412958240H16A	MS0412958240H16A	MS0412958240H16A
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:	L. Duong	L. Duong	L. Duong	L. Duong	L. Duong
MS/MSD #:	950426401	950426401	950426401	950426401	950426401
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:	4/12/95	4/12/95	4/12/95	4/12/95	4/12/95
Instrument I.D.#:	H6	H6	H6	H6	H6
Conc. Spiked:	50 µg/L	50 µg/L	50 µg/L	50 µg/L	50 µg/L
Result:	47	47	48	48	47
MS % Recovery:	94	94	96	96	94
Dup. Result:	46	47	50	49	48
MSD % Recov.:	92	94	100	98	96
RPD:	2.2	0.0	2.0	2.1	2.1
RPD Limit:	0-50	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	DL-234	71-157	37-151	47-150	37-160

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

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Weiss Associates	Client Project ID:	Shell 9570 Golf Links	
5500 Shellmound	Matrix:	Solid	
Emeryville, CA 94608			
Attention: Faith Daverin	Work Order #:	9504131-01	Reported: Apr 14, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Heptachlor	Aldrin	Dieldrin
QC Batch#:	GC0406958080EXA	GC0406958080EXA	GC0406958080EXA
Analy. Method:	EPA 8080	EPA 8080	EPA 8080
Prep. Method:	EPA 3550	EPA 3550	EPA 3550
Analyst:	L. Haar	L. Haar	L. Haar
MS/MSD #:	BLK040695	BLK040695	BLK040695
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	4/6/95	4/6/95	4/6/95
Analyzed Date:	4/7/95	4/7/95	4/7/95
Instrument I.D.#:	GCHP10	GCHP10	GCHP10
Conc. Spiked:	3.3 µg/Kg	3.3 µg/Kg	13 µg/Kg
Result:	3.1	3.1	14
MS % Recovery:	93	93	105
Dup. Result:	2.9	2.8	12
MSD % Recov.:	87	84	90
RPD:	6.7	10	15
RPD Limit:	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	39-137	47-139	62-132

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

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Weiss Associates	Client Project ID:	Shell 9570 Golf Links	
5500 Shellmound	Matrix:	Solid	
Emeryville, CA 94608			
Attention: Faith Daverin	Work Order #:	9504131-01	Reported: Apr 14, 1995

QUALITY CONTROL DATA REPORT

TTLC

Analyte:	Mercury
QC Batch#:	ME0410957471M4A
Analy. Method:	EPA 7471
Prep. Method:	EPA 7471
Analyst:	N. Rocklein
MS/MSD #:	950413101
Sample Conc.:	0.043
Prepared Date:	4/10/95
Analyzed Date:	4/10/95
Instrument I.D.#:	MPE4
Conc. Spiked:	0.20 mg/Kg
Result:	0.25
MS % Recovery:	104
Dup. Result:	0.24
MSD % Recov.:	99
RPD:	4.1
RPD Limit:	0-30

LCS #:	LCS041095
Prepared Date:	4/10/95
Analyzed Date:	4/10/95
Instrument I.D.#:	MPE4
Conc. Spiked:	0.20 mg/Kg
LCS Result:	0.18
LCS % Recov.:	90

MS/MSD LCS Control Limits	75-125

SEQUOIA ANALYTICAL

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Project Manager

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Weiss Associates	Client Project ID:	Shell 9570 Golf Links	
5500 Shellmound	Matrix:	Liquid	
Emeryville, CA 94608			
Attention: Faith Daverin	Work Order #:	9504131-01	Reported: Apr 14, 1995

QUALITY CONTROL DATA REPORT

TCLP

Analyte:	Mercury
QC Batch#:	ME0410952451M4C
Analy. Method:	EPA 245.1
Prep. Method:	EPA 245.1
Analyst:	N. Rocklein
MS/MSD #:	950422404
Sample Conc.:	N.D.
Prepared Date:	4/10/95
Analyzed Date:	4/10/95
Instrument I.D.#:	MPE4
Conc. Spiked:	0.0040 mg/L
Result:	0.0042
MS % Recovery:	105
Dup. Result:	0.0041
MSD % Recov.:	103
RPD:	2.4
RPD Limit:	0-30

LCS #:	LCS041095
Prepared Date:	4/10/95
Analyzed Date:	4/10/95
Instrument I.D.#:	MPE4
Conc. Spiked:	0.0040 mg/L
LCS Result:	0.0042
LCS % Recov.:	105

MS/MSD LCS Control Limits	75-125

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

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Weiss Associates	Client Project ID:	Shell 9570 Golf Links	
5500 Shellmound	Matrix:	Liquid	
Emeryville, CA 94608			
Attention: Faith Daverin	Work Order #:	9504131-01	Reported: Apr 14, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0407956010MDD	ME0407956010MDD	ME0407956010MDD	ME0407956010MDD
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 #:	950427206	950427206	950427206	950427206
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	4/7/95	4/7/95	4/7/95	4/7/95
Analyzed Date:	4/7/95	4/7/95	4/7/95	4/7/95
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	1.0	1.0
MS % Recovery:	100	100	100	100
Dup. Result:	1.0	1.0	1.0	0.99
MSD % Recov.:	100	100	100	99
RPD:	0.0	0.0	0.0	1.0
RPD Limit:	0-30	0-30	0-30	0-30
LCS #:	BLK040795	BLK040795	BLK040795	BLK040795
Prepared Date:	4/7/95	4/7/95	4/7/95	4/7/95
Analyzed Date:	4/7/95	4/7/95	4/7/95	4/7/95
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	1.0	1.0
LCS % Recov.:	100	100	100	100
MS/MSD LCS Control Limits	75-125	75-125	75-125	75-125

SEQUOIA ANALYTICAL

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Project Manager

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SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: _____

Date:
Page 1 of 1

Site Address: 9570 Golf Links Rd., Oakland

WIC#: 204-5508-2808

Shell Engineer: Jeff Byram | Phone No.: | Fax #:

Consultant Name & Address: WEISS ASSOCIATES 5500 SHELLMOUND ST EMERYVILLE CA 94608

Consultant Contact: Faith Davenin | Phone No.: (510) 547-5420 | Fax #: 547-5043

WA JOB # 81-1055-30

Comments: Soil Disposal

Sampled by: [signature]

Printed Name: Tim Utterback

LAB: Sequoia

CHECK ONE (1) BOX ONLY		CT/DT	TURN AROUND TIME	
G.W. Monitoring	☐	4461	24 hours	☐
Site Investigation	☐	4441	48 hours	☐
Soil Classify/Disposal	☒	4442	15 days	☒ (Normal)
Water Classify/Disposal	☐	4443	Other	☐ ____
Soil/Air Rem. or Sys. O & M	☐	4452	NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.	
Water Rem. or Sys. O & M	☐	4453		
Other	☐			

UST AGENCY: _____

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal (For checked items only)	Combination TPH 8015 & BTEX 8020	Oil and Grease EPA 418.1	SVOA EPA 8270	Asbestos TTLC for As, Cd, Cr, Pb, Zn and Ni	Container Size	Preservation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
Comp-A	3/7/95		X			4	X	X		X			X	X	X		RCI	Y	Soil	Each Composite Consists of 4-discrete Samples
																				Please use Shell's protocol for waste disposal as well as Shell's decision tree for lead. Analyze each discrete sample for TPH.

Relinquished By (signature): [signature]	Printed Name: Tim Utterback	Date: 3/8/95 Time: 10:30	Received (signature): [signature]	Printed Name: C. Westwater	Date: 3-8-95 Time: 1030
Relinquished By (signature): [signature]	Printed Name: C. Westwater	Date: 3-8-95 Time: 3:50	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature): [signature]	Printed Name: C. Throm	Date: 3/8/95 Time: 1550

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

Shell Oil Chain of Custody