GeoStrategies Inc.
2140 WEST WINTON AVENUE
HAYWARD, CALIFORNIA 94545
(510) 352-4800

FACSIMILE COVER SHEET

TO: Dennis Byrne

COMPANY: ACHA

FROM: Clyde Galantine

DATE: 2-24-92

RE: 4411 Foothill Rd Oakland Shell

COMMENTS: Waste Oil Tank removal results
SW-1 = excavation sample SW5-1A-D → stockpile

9 pages including cover.

If there are any problems with this transmission, please call (510) 352-4800.

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Gettler Ryan	Client Project ID:	7681.01, Shell, Oakland	Sampled: Feb 5, 1992
2150 W. Winton Avenue	Matrix Descript:	Soil	Received: Feb 6, 1992
Hayward, CA 94545	Analysis Method:	EPA 5030/8015/8020	Analyzed: Feb 7, 1992
Attention: John Werfal	First Sample #:	202-0900	Reported: Feb 21, 1992

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P. Hydrocarbons mg/kg (ppm)	Benzene mg/kg (ppm)	Toluene mg/kg (ppm)	Ethyl Benzene mg/kg (ppm)	Xylenes mg/kg (ppm)
202-0900	SW-1	N.D.	N.D.	N.D.	N.D.	N.D.
2020901 A-D	SW61 A-D	5.2	0.011	0.0080	0.012	0.018
Detection Limits:		1.0	0.0050	0.0050	0.0050	0.0050

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Vickie Tague
Project Manager

8020900.GET <1>

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(415) 364-9600 • FAX (415) 364-9233

Gettler Ryan	Client Project ID:	7681.01, Shell, Oakland	Sampled:	Feb 5, 1992
2150 W. Winton Avenue	Matrix Descript:	Soil	Received:	Feb 6, 1992
Hayward, CA 94545	Analysis Method:	EPA 3550/8015	Extracted:	Feb 7, 1992
Attention: John Wertai	First Sample #:	202-0900	Analyzed:	Feb 7, 1992
			Reported:	Feb 21, 1992

TOTAL PETROLEUM FUEL HYDROCARBONS (EPA 8015)

Sample Number	Sample Description	High B.P. Hydrocarbons mg/kg (ppm)
202-0900	SW-1	N.D.
2020901 A-D	SWS1 A-D	14

Detection Limits:	1.0

High Boiling Point Hydrocarbons are quantitated against a diesel fuel standard.
Analytes reported as N.D. were not present above the stated limit of detection.

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Vickie Tague
Project Manager

Please Note:
Sample SWS1 A-D does not appear to contain diesel fuel. Higher boiling point compounds predominate.

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Gettler Ryan	Client Project ID:	7661.01, Shell, Oakland	Sampled: Feb 5, 1992
2150 W. Winton Avenue	Matrix Descript:	Soil	Received: Feb 6, 1992
Hayward, CA 94545	Analysis Method:	SM 5520 E&F (Gravimetric)	Extracted: Feb 10, 1992
Attention: John Werfal	First Sample #:	202-0900	Analyzed: Feb 10, 1992
			Reported: Feb 21, 1992

TOTAL RECOVERABLE PETROLEUM OIL

Sample Number	Sample Description	Oil & Grease mg/kg (ppm)
202-0900	SW-1	N.D.
2020901 A-D	SW81 A-D	130

Detection Limits:	30

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

SEQUOIA ANALYTICAL

Vickie Tegue
Project Manager

2020900.GET <8>

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Gettler Ryan	Client Project ID:	7681.01, Shell, Oakland	Sampled:	Feb 5, 1992
2150 W. Winton Avenue	Sample Descript:	Soil, SW-1	Received:	Feb 6, 1992
Hayward, CA 94545	Analysis Method:	EPA 8240	Analyzed:	Feb 10, 1992
Attention: John Werfal	Lab Number:	202-0900	Reported:	Feb 21, 1992

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/kg	Sample Results µg/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.
Vinyl chloride	100	N.D.
Total Xylenes	100	N.D.

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

SEQUOIA ANALYTICAL

Vickie Tapia
Project Manager

202900.GET <4>

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Gettler Ryan	Client Project ID:	7681.01, Shell, Oakland	Sampled: Feb 5, 1992
2150 W. Winton Avenue	Sample Descript:	Soil, SWS1 A-D	Received: Feb 6, 1992
Hayward, CA 94545	Analysis Method:	EPA 8240	Analyzed: Feb 10, 1992
Attention: John Wertel	Lab Number:	202-0901 A-D	Reported: Feb 21, 1992

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/kg	Sample Results µg/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.
Vinyl chloride	100	N.D.
Total Xylenes	100	N.D.

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

SEQUOIA ANALYTICAL

Vickie Tague
Project Manager

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(415) 364-9600 • FAX (415) 364-9233

Gettler Ryan
2150 W. Winton Avenue
Hayward, CA 94545
Attention: John Werfal

Client Project ID: 7681.01, Shell, Oakland

QC Sample Group: 2020900-1

Reported: Feb 21, 1992

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl benzene	Xylenes	High Boiling Point Hydrocarbons	Total Recoverable Petroleum Oil
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015	SM 5520 B&F
Analyst:	C. Donohue	C. Donohue	C. Donohue	C. Donohue	R. Lee	T.A. Do
Reporting Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date Analyzed:	Feb 7, 1992	Feb 7, 1992	Feb 7, 1992	Feb 7, 1992	Feb 6, 1992	Feb 10, 1992
QC Sample #:	GBLK020792	GBLK020792	GBLK020792	GBLK020792	DBLK020692	BLK021092
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	0.20	0.20	0.20	0.60	15	1000
Conc. Matrix Spike:	0.21	0.20	0.19	0.57	12	940
Matrix Spike % Recovery:	105	100	95	95	80	94
Conc. Matrix Spike Dup.:	0.21	0.20	0.19	0.57	14	910
Matrix Spike Duplicate % Recovery:	105	100	95	95	93	91
Relative % Difference:	0.0	0.0	0.0	0.0	15	3.2

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Vickie Tague
Project Manager

% Recovery: $\frac{\text{Conc. of M.S. - Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$

Relative % Difference: $\frac{\text{Conc. of M.S. - Conc. of M.S.D.}}{(\text{Conc. of M.S. + Conc. of M.S.D.}) / 2} \times 100$

2020900.GET <6>

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Gettler Ryan 2150 W. Winton Avenue Hayward, CA 94545 Attention: John Werfal	Client Project ID: Method (units): Analyst(s): QC Sample #:	7661.01, Shell, Oakland EPA 8240 (µg/L purged) G. Meyer 201-3617	Q.C. Sample Dates Analyzed: Feb 3, 1992 Reported: Feb 21, 1992

QUALITY CONTROL DATA REPORT

Analyte	Sample Conc.	Spike Conc. Added	Conc. Matrix Spike	Matrix Spike % Recovery	Conc. Matrix Spike Duplicate	Matrix Spike Duplicate % Recovery	Relative % Difference
1,1-Dichloro-ethene	N.D.	50	53	106	51	104	1.9
Trichloroethene	N.D.	50	51	102	46	92	10
Benzene	N.D.	50	52	104	51	102	1.9
Toluene	N.D.	50	52	104	49	98	5.9
Chlorobenzene	N.D.	50	56	112	52	104	7.4

SEQUOIA ANALYTICAL

Vickie Tague
Project Manager

% Recovery: $\frac{\text{Conc. of M.S. - Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$

Relative % Difference: $\frac{\text{Conc. of M.S. - Conc. of M.S.D.}}{(\text{Conc. of M.S. + Conc. of M.S.D.}) / 2} \times 100$

2020900.GET <7>

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No.: _____

Date:
Page 1 of 1

Site Address: 4411 Foothill Blvd Oakland

WIC#: 204-5508-3400

Shell Engineer: Dan Kirk — **Phone No.** 685-3850 **Fax #** (510) 685-3943

Consultant Name & Address: Gettler-Ryan / GeoStrategies, 2150 W. Winton Ave. Hayward, California 94545

7681.01

Consultant Contact: John Werfal — **Phone No.** 783-7500 **Fax #:** 783-1089

Comments: W.O. Tank pull ~ 40-50 yd³ stockpile

Sampled By: Clyde Galantine

Printed Name: Clyde Galantine

LAB: Sequoia

CHECK ONE (1) BOX ONLY | **CT/DT**

- Quarterly Monitoring ☐ 5461
- Site Investigation SW-1 ☒ 5441
- Soil for disposal SWS-1A-D ☒ 5442
- Water for disposal ☐ 5443
- Air Sample - Sys O&M ☐ 5452
- Water Sample - Sys O&M ☐ 5453
- Other ☐

TURN AROUND TIME

- 24 hours ☐
- 48 hours ☐
- 15 days ☒ (Normal)
- Other ☐ _____

NOTE: Notify Lab as soon as possible of 24/48 hrs. TAT.

Analysis Required

Sample ID	Date	Soil	Water	Air	No. of cont.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Oil & Grease - 5520 E&F	Container Size	Preservation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
SW-1	2-5-92	X			1	X	X	X	X		X	2½"		N		5441 Investigate
SWS-1A-D	2-5-92	X			4	X	X	X	X		X	1"		Y		5442 Disposal

Relinquished By (signature):	Printed name:	Date:	Received (signature):	Printed name:	Date:
Clyde Galantine	Clyde Galantine	2-5-92 Time: 15:50	Refrigerator #2	CSJ	2-5-92 Time: 15:50
Relinquished By (signature): Refrig #2 CSJ	Printed name:	Date: 2-6-92 Time: 12:00	Received (signature):	Printed name: Frank Cline	Date: 2-6-92 Time:
Relinquished By (signature):	Printed name: Frank A Cline	Date: 2-6-92 Time: 15:15	Received (signature): Sophia Patiga	Printed name: SOPHIA PATIGA	Date: 2-6 Time: 3:15

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

Last Revision Date: 10/15/91