



January 31, 1990  
88-44-369-01-397

Ms. Dyan Whyte  
Water Resource Control Engineer  
San Francisco Bay Regional Water Quality Control Board  
1800 Harrison Street  
Oakland, California 94607

Subject: Shell Oil Company - Addendum to Quarterly Report (Quarter 4, 1989)  
630 High Street  
Oakland, California 94601

Dear Ms. Whyte:

Enclosed please find one copy of the Shell Oil Company Addendum to the Quarterly Report of Activities for Quarter 4, 1989 prepared by Converse Environmental West (CEW) - San Francisco. Section 3.5 titled Groundwater Analysis and Results stated that certified laboratory copies of the groundwater analytical results were not available at the time the Quarter 4 Report was submitted to your office. The data was included in the drawings submitted in the December 31, 1989 Quarter Report.

Please call if you have any questions.

Very truly yours,

**Converse Environmental West**

*Robin M. Breuer*

**Robin M. Breuer**  
**Project Manager**

RMB:mkb

Enclosure

cc: Ms. Diane Lundquist - Shell Oil Company (w/ encl.)  
Mr. Rafat Shahid - Alameda County Health Care Services (w/ encl.)  
Mr. Douglas W. Charlton - CEW (w/o encl.)

630 High St\Whyte397.ltr

# Converse Environmental West

## ADDENDUM TO REPORT OF ACTIVITIES

### SHELL OIL COMPANY FACILITY 630 High Street Oakland, California

For Quarter 4, 1989  
Submitted: January 31, 1990

**RWQCB Representative:**

Ms. Dyan Whyte  
Water Resource Control Engineer  
San Francisco Bay RWQCB  
1800 Harrison Street  
Oakland, California 94607

**LIA Representative:**

Mr. Rafat Shahid  
Alameda County Health Care Services Agency  
80 Swan Way  
Oakland, California 94621

**Shell Engineer:**

Ms. Diane Lundquist  
Environmental Engineer  
Shell Oil Company  
1390 Willow Pass Road  
Concord, California

**Converse Project Manager:**

Ms. Robin Breuer, Project Manager  
55 Hawthorne Street, Suite 500  
San Francisco, California 94105  
(415) 543-4200

**Registered Geologist in Charge:**

Douglas W. Charlton, Principal Geologist  
55 Hawthorne Street, Suite 500  
San Francisco, California 94105  
(415) 543-4200

**ATTACHMENT 1**  
**GROUNDWATER ANALYTICAL RESULTS**



NATIONAL  
ENVIRONMENTAL  
TESTING, INC.

NET Pacific, Inc.  
435 Tesconi Circle  
Santa Rosa, CA 95401  
Tel: (707) 526-7200  
Fax: (707) 526-9623

RECEIVED

JAN 25 1990

Mark Yalom  
Converse Consultants  
55 Hawthorne St, Ste 500  
San Francisco, CA 94105

CONVERSE ENVIRONMENTAL  
Date: 12-14-89  
NET Client Acct No: 18.02  
NET Pacific Log No: 8837  
Client Ref: Project#88-44-369-01

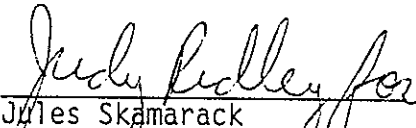
Client Reference Information

SHELL-630 High St.

Dear Mark Yalom:

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:

  
Jules Skamarack  
Laboratory Manager

/ma  
Enclosure



NET Pacific, Inc.

Parameter	Reporting Limit ( ppm )	Descriptor, Lab No. and Results			
		MW-8 12-05-89 1630 (-41160 )	MW-7 12-05-89 1650 (-41161 )	MW-5 12-05-89 1705 (-41162 )	MW-3 12-05-89 1730 (-41163 )
PETROLEUM HYDROCARBONS		--	--	--	--
VOLATILE (WATER)		--	--	--	--
DILUTION FACTOR *		1	1	1	1
DATE ANALYZED		12-11-89	12-11-89	12-11-89	12-11-89
METHOD GC FID/5030		--	--	--	--
as Gasoline	0.05	ND	ND	1.4	2.8
METHOD 602		--	--	--	--
Benzene	0.0005	ND	ND	0.0048	0.015
Ethylbenzene	0.0005	ND	ND	0.0091	0.004
Toluene	0.0005	ND	ND	0.0038	0.008
Xylenes, total	0.0005	ND	ND	0.008	0.012
PETROLEUM HYDROCARBONS		--	--	--	--
EXTRACTABLE (WATER)		--	--	--	--
DILUTION FACTOR *		1	1	1	1
DATE EXTRACTED		12-07-89	12-07-89	12-07-89	12-07-89
DATE ANALYZED		12-07-89	12-07-89	12-07-89	12-07-89
METHOD GC FID/3510		--	--	--	--
as Diesel	0.05	0.60	0.093	0.33	0.81
as Motor Oil	0.05	ND	ND	ND	ND



NET Pacific, Inc.

## KEY TO ABBREVIATIONS and METHOD REFERENCES

- < : Less than; When appearing in results column indicates analyte not detected at the value following, which supercedes the listed reporting limit.
- mean : Average; sum of measurements divided by number of measurements.
- mg/Kg (ppm) : Concentration in units of milligrams of analyte per kilogram of sample, wet-weight basis (parts per million).
- mg/L : Concentration in units of milligrams of analyte per liter of sample.
- mL/L/hr : Milliliters per liter per hour.
- MPN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.
- N/A : Not applicable.
- NA : Not analyzed.
- ND : Not detected; the analyte concentration is less than applicable listed reporting limit.
- NTU : Nephelometric turbidity units.
- RPD : Relative percent difference,  $100 \frac{|\text{Value 1} - \text{Value 2}|}{\text{mean value}}$ .
- SNA : Standard not available.
- ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample, wet-weight basis (parts per billion).
- ug/L : Concentration in units of micrograms of analyte per liter of sample.
- umhos/cm : Micromhos per centimeter.

### Method References

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986.

- \* Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated reporting limits by the dilution factor.



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RECEIVED

JAN 25 1990

CONVERSE ENVIRONMENTAL

Marc Yalom  
Converse Consultants  
55 Hawthorne St, Ste 500  
San Francisco, CA 94105

Date: 12-22-89  
NET Client Acct. No: 18.02  
NET Pacific Log No: 8944  
Received: 12-14-89 0700

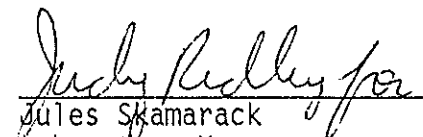
Client Reference Information

SHELL, 630 High St.

Dear Mr. Yalom:

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:

  
Jules Skamarack  
Laboratory Manager

Enclosure(s)



Client: 18.02  
NET Log No: 8944

Date: 12-22-89

Page: 2

NET Pacific, Inc.

SAMPLE DESCRIPTION: MW-2 12-11-89 1150  
LAB Job No: (-41904 )

<u>Parameter</u>	<u>Reporting Limit</u>	<u>Results</u>	<u>Units</u>
PETROLEUM HYDROCARBONS		--	
VOLATILE (WATER)		--	
DILUTION FACTOR *		1	
DATE ANALYZED		12-20-89	
METHOD GC FID/5030		--	
as Gasoline	0.05	ND	mg/L
METHOD 602		--	
Benzene	0.5	ND	ug/L
Ethylbenzene	0.5	ND	ug/L
Toluene	0.5	ND	ug/L
Xylenes, total	0.5	ND	ug/L
PETROLEUM HYDROCARBONS		--	
EXTRACTABLE (WATER)		--	
DILUTION FACTOR *		1	
DATE EXTRACTED		12-14-89	
DATE ANALYZED		12-14-89	
METHOD GC FID/3510		--	
as Diesel	0.05	0.081	mg/L
as Motor Oil	0.05	0.22	mg/L





Client: 18.02  
NET Log No: 8944

Date: 12-22-89

Page: 3

NET Pacific, Inc.

SAMPLE DESCRIPTION: MW-4                    12-11-89                    1515  
LAB Job No: (-41905 )

<u>Parameter</u>	<u>Reporting Limit</u>	<u>Results</u>	<u>Units</u>
PETROLEUM HYDROCARBONS VOLATILE (WATER)		--	
DILUTION FACTOR *		5	
DATE ANALYZED		12-21-89	
METHOD GC FID/5030		--	
as Gasoline	0.05	4.6	mg/L
METHOD 602		--	
Benzene	0.5	170	ug/L
Ethylbenzene	0.5	11	ug/L
Toluene	0.5	26	ug/L
Xylenes, total	0.5	20	ug/L
PETROLEUM HYDROCARBONS EXTRACTABLE (WATER)		--	
DILUTION FACTOR *		1	
DATE EXTRACTED		12-14-89	
DATE ANALYZED		12-14-89	
METHOD GC FID/3510		--	
as Diesel	0.05	1.0	mg/L
as Motor Oil	0.05	ND	mg/L



Client: 18.02  
NET Log No: 8944

Date: 12-22-89

Page: 4

NET Pacific, Inc.

SAMPLE DESCRIPTION: MW-8 12-11-89 1535  
LAB Job No: (-41906 )

<u>Parameter</u>	<u>Reporting Limit</u>	<u>Results</u>	<u>Units</u>
PETROLEUM HYDROCARBONS VOLATILE (WATER)		--	
DILUTION FACTOR *		1	
DATE ANALYZED		12-20-89	
METHOD GC FID/5030		--	
as Gasoline	0.05	ND	mg/L
METHOD 602		--	
Benzene	0.5	1.1	ug/L
Ethylbenzene	0.5	ND	ug/L
Toluene	0.5	ND	ug/L
Xylenes, total	0.5	ND	ug/L
PETROLEUM HYDROCARBONS EXTRACTABLE (WATER)		--	
DILUTION FACTOR *		1	
DATE EXTRACTED		12-14-89	
DATE ANALYZED		12-14-89	
METHOD GC FID/3510		--	
as Diesel	0.05	ND	mg/L
as Motor Oil	0.05	ND	mg/L



Client: 18.02  
NET Log No: 8944

Date: 12-22-89

Page: 5

NET Pacific, Inc.

SAMPLE DESCRIPTION: MW-1 12-11-89 1555  
LAB Job No: (-41907 )

<u>Parameter</u>	<u>Reporting Limit</u>	<u>Results</u>	<u>Units</u>
PETROLEUM HYDROCARBONS VOLATILE (WATER)		--	
DILUTION FACTOR *		--	
DATE ANALYZED		25	
METHOD GC FID/5030		12-21-89	
as Gasoline	0.05	--	
METHOD 602		13	mg/L
Benzene	0.5	#	
Ethylbenzene	0.5	250	ug/L
Toluene	0.5	270	ug/L
Xylenes, total	0.5	36	ug/L
		380	ug/L
PETROLEUM HYDROCARBONS EXTRACTABLE (WATER)		--	
DILUTION FACTOR *		--	
DATE EXTRACTED		1	
DATE ANALYZED		12-14-89	
METHOD GC FID/3510		12-14-89	
as Diesel	0.05	--	
as Motor Oil	0.05	4.4	mg/L
		ND	mg/L



NET Pacific, Inc.

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