PACIFIC
ENVIRONMENTAL
GROUP, INC.

#113

95 JAN 31 AM 9:02

January 27, 1995
Project 305-131.2B

Mr. Dan Kirk
Shell Oil Company
P.O. Box 4023
Concord, California 94524

Re: Quarterly Report - Fourth Quarter 1994
Shell Service Station
4411 Foothill Boulevard at High Street
Oakland, California
WIC No 204-5508-3400

Dear Mr. Kirk:

The following presents the results of the fourth quarter 1994 monitoring program for the site referenced above. This letter has been prepared for Shell Oil Company (Shell) by Pacific Environmental Group, Inc. (PACIFIC).

FINDINGS

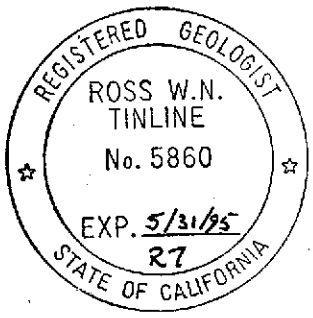
Groundwater monitoring wells were gauged and sampled by Blaine Tech Services, Inc. (Blaine) at the direction of PACIFIC on December 15, 1994. Groundwater elevation contours for the sampling date are shown on Figure 1. Data for the Chevron U.S.A. Products Company station and the BP Oil station were not available for the quarter. Groundwater elevation contours are presented for the Shell site only. Table 1 presents groundwater elevation data.

Groundwater analytical data are presented in Table 2. Total petroleum hydrocarbons calculated as gasoline (TPH-g), benzene, and TPH calculated as diesel (TPH-d) concentrations for the December 1994 sampling event are shown on Figure 2. Blaine's groundwater sampling report is presented as Attachment A and includes the certified analytical report.

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

Sincerely,

Pacific Environmental Group, Inc.



Ross W.N. Tinline
Project Geologist
RG 5860

Attachments:
- Table 1 - Groundwater Elevation Data
- Table 2 - Groundwater Analytical Data - Total Petroleum Hydrocarbons (TPH as Gasoline, BTEX Compounds, TPH as Diesel, and TPH as Motor Oil)
- Figure 1 - Groundwater Elevation Contour Map
- Figure 2 - TPH-g/Benzene/TPH-d Concentration Map
- Attachment A - Groundwater Sampling Report

cc: Mr. Barney Chan, Alameda County Department of Environmental Health
Mr. Richard Hiett, Regional Water Quality Control Board - S.F. Bay Region

Table 1
Groundwater Elevation Data

Shell Service Station
4411 Foothill Boulevard at High Street
Oakland, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOB)	Groundwater Elevation (feet, MSL)
S-1	12/18/92	NM	9.06	NA
	05/26/93	38.31	NM	NA
	05/28/93		12.13	26.18
	06/03/93		8.89	29.42
	06/08/93		8.80	29.51
	09/21/93		10.40	27.91
	12/14/93		9.66	28.65
	03/17/94		8.20	30.11
	06/16/94		9.41	28.90
	09/22/94		11.13	27.18
	12/15/94		7.15	31.16
S-2	05/28/93	38.79	9.51	29.28
	06/03/93		9.51	29.28
	06/08/93		9.57	29.22
	09/21/93		10.54	28.25
	12/14/93		9.76	29.03
	03/17/94		9.92	28.87
	06/16/94		10.11	28.68
	09/22/94		10.51	28.28
	12/15/94		9.12	29.67
S-3	05/28/93	37.33	8.45	28.88
	06/03/93		8.36	28.97
	06/08/93		8.41	28.92
	09/21/93		10.08	27.25
	12/94/93		8.80	28.53
	03/17/94		8.34	28.99
	06/16/94		9.12	28.21
	09/22/94		10.27	27.06
	12/15/94		7.81	29.52

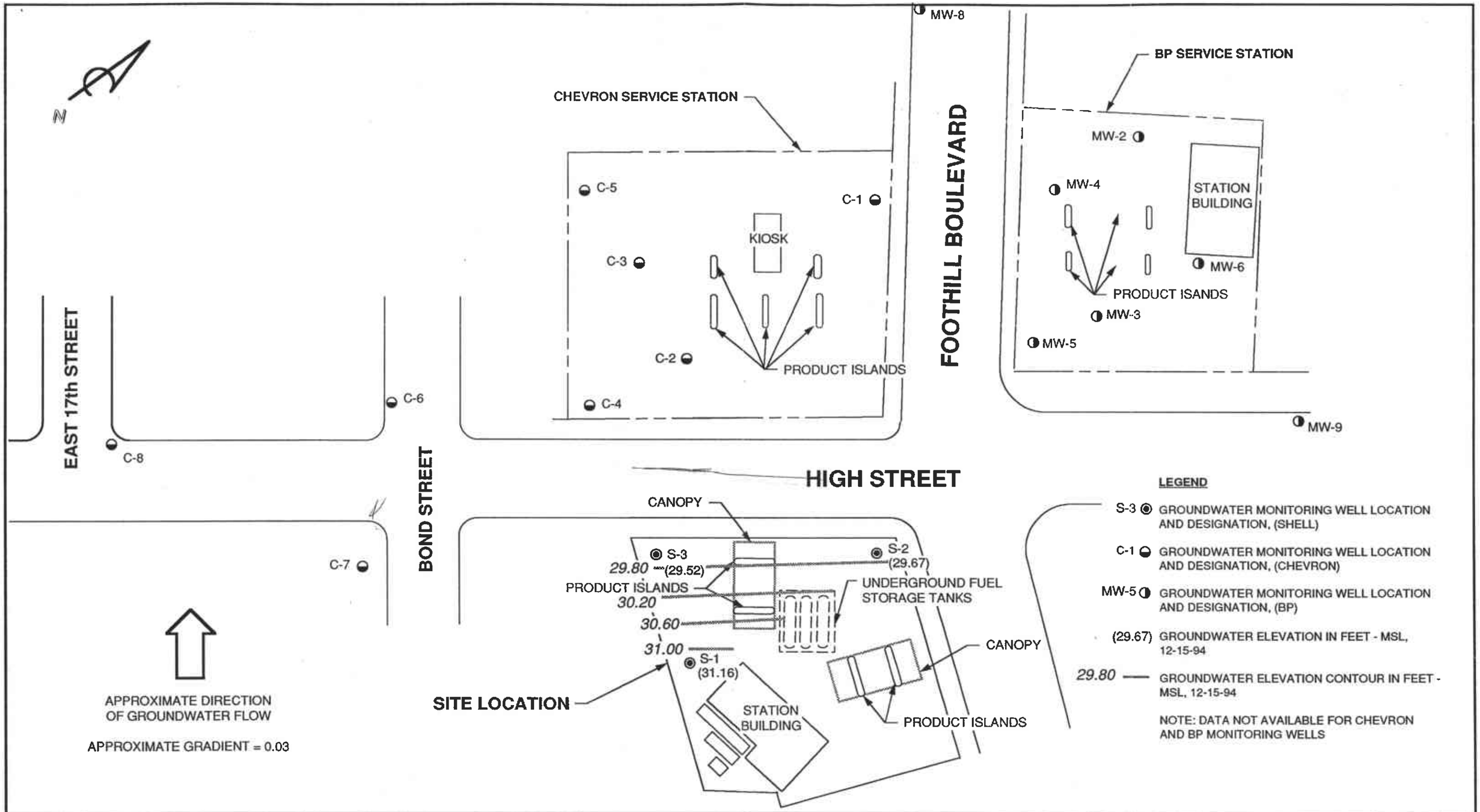
MSL = Mean sea level
TOB = Top of box
NM = Not measured
NA = Not available

Table 2
Groundwater Analytical Data
Total Petroleum Hydrocarbons
(TPH as Gasoline, BTEX Compounds, TPH as Diesel, and TPH as Motor Oil)

Shell Service Station
4411 Foothill Boulevard at High Street
Oakland, California

Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	TPH as Diesel (ppb)	TPH as Motor Oil (ppb)
S-1	12/18/92 a	41,000	3,100	1,100	1,200	8,700	NA	9,400
	05/26/93	39,000	1,300	4,700	1,500	7,800	6,000	370
	09/21/93	34,000	480	5,000	3,800	18,000	5,900	ND
	12/14/93	25,000	1,100	5,000	2,200	11,000	13,000	ND
	03/17/94	57,000	1,300	5,400	2,100	11,000	1,600	2,300
	06/16/94	57,000	1,600	6,000	2,000	13,000	3,000	210
	09/22/94	39,000	1,300	2,100	1,500	7,100	ND	ND
	12/15/94	30,000	1,100	4,700	1,600	10,000	3,100 b	ND
S-2	06/29/93	1,300	290	35	38	130	NA	NA
	09/21/93	3,300	870	24	190	120	NA	NA
	12/14/93	1,300	400	16	36	27	NA	NA
	03/17/94	4,500	610	27	92	110	NA	NA
	03/17/94 (D)	4,000	610	26	93	120	NA	NA
	06/16/94	2,800	690	45	97	140	NA	NA
	09/22/94	4,000	630	94	64	230	NA	NA
	12/15/94	1,600	450	300	67	130	NA	NA
S-3	06/29/93	29,000	1,500	1,800	950	6,200	NA	NA
	09/21/93	15,000	900	2,200	2,600	11,000	NA	NA
	12/14/93	20,000	1,100	2,400	1,800	8,500	NA	NA
	03/17/94	14,000	580	190	750	1,700	NA	NA
	06/16/94	20,000	700	690	1,400	4,100	NA	NA
	06/16/94 (D)	19,000	680	560	1,300	3,700	NA	NA
	09/22/94	24,000	630	1,100	1,400	5,700	NA	NA
	09/22/94 (D)	25,000	720	1,100	1,500	6,100	NA	NA
	12/15/94	18,000	520	800	1,100	4,200	NA	NA
	12/15/94 (D)	23,000	1,000	1,900	2,000	8,600	NA	NA

ppb = Parts per billion
a. Phenolic and napthalene compounds detected in Sample S-1 by semi-volatile organics (EPA Method 8270).
b. Laboratory noted that concentrations appears to be a ligher hydrocarbon than diesel.
c. Laboratory noted concentration due to a lighter petroleum product of hydrocarbon range C_6-C_{12}.
d. Laboratory noted concentration due to hydrocarbon range C_6-C_{12}.
NA = Not analyzed
ND = Not detected
(D) = Duplicate sample



PACIFIC ENVIRONMENTAL GROUP, INC.

SCALE
0 50 100 FEET

SHELL SERVICE STATION
4411 Foothill Boulevard at High Street
Oakland, California

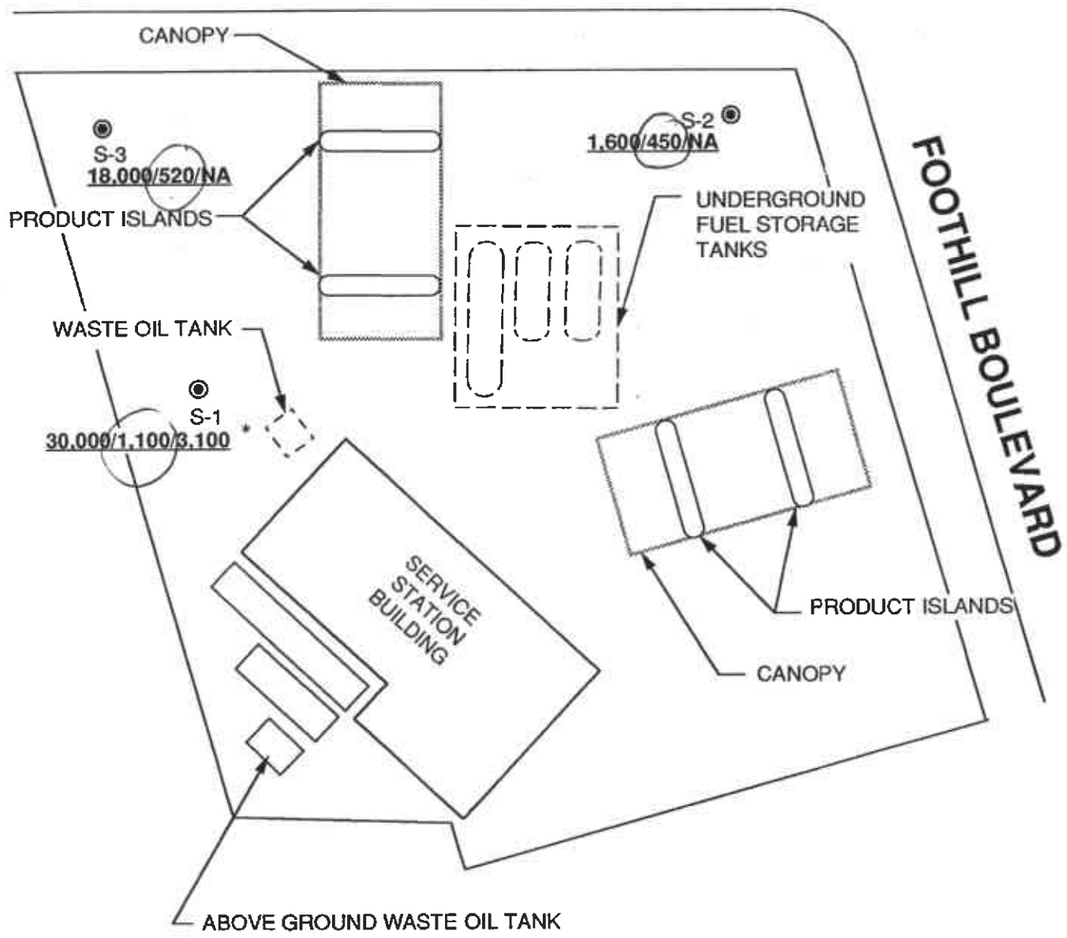
GROUNDWATER ELEVATION CONTOUR MAP

FIGURE: 1
PROJECT: 305-131.2B

01/25/95

N

HIGH STREET



LEGEND

S2 ◉ GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION

1,600/450/NA TPH-g/BENZENE/TPH-d CONCENTRATION IN GROUNDWATER, IN PARTS PER BILLION, 12-15-94

NA NOT ANALYZED

* LABORATORY REPORTED CONCENTRATION TO BE A LIGHTER HYDROCARBON THAN DIESEL.

APPROXIMATE DIRECTION OF GROUNDWATER FLOW

PACIFIC ENVIRONMENTAL GROUP, INC.

SCALE
0 30 60 FEET

SHELL SERVICE STATION
4411 Foothill Boulevard At High Street
Oakland, California

TPH-g/BENZENE/TPH-d CONCENTRATION MAP

FIGURE: 2
PROJECT: 305-131.2B

01/25/95

ATTACHMENT A

GROUNDWATER SAMPLING REPORT

BLAINE
TECH SERVICES INC.

985 TIMOTHY DRIVE
SAN JOSE, CA 95133
(408) 995-5535
FAX (408) 293-8773

January 4, 1995

Shell Oil Company
P.O. Box 4023
Concord, CA 94524

Attn: Daniel T. Kirk

SITE:
Shell WIC #204-5508-3400
4411 Foothill Blvd.
Oakland, California

QUARTER:
4th quarter of 1994

QUARTERLY GROUNDWATER SAMPLING REPORT 941215-J-1

This report contains data collected during routine inspection, gauging and sampling of groundwater monitoring wells performed by Blaine Tech Services, Inc. in response to the request of the consultant who is overseeing work at this site on behalf of our mutual client, Shell Oil Company. Data collected in the course of our field work is presented in a TABLE OF WELL GAUGING DATA. The field information was collected during our preliminary gauging and inspection of the wells, the subsequent evacuation of each well prior to sampling, and at the time of sampling.

Measurements taken include the total depth of the well and the depth to water. The surface of water was further inspected for the presence of immiscibles which may be present as a thin film (a sheen on the surface of the water) or as a measurable free product zone (FPZ). At intervals during the evacuation phase, the purge water was monitored with instruments that measure electrical conductivity (EC), potential hydrogen (pH), temperature (degrees Fahrenheit), and turbidity (NTU). In the interest of simplicity, fundamental information is tabulated here, while the bulk of the information is turned over directly to the consultant who is making professional interpretations and evaluations of the conditions at the site.

STANDARD PROCEDURES

Evacuation

Groundwater wells are thoroughly purged before sampling to insure that the sample is collected from water that has been newly drawn into the well from the surrounding geologic formation. The selection of equipment to evacuate each well is based on the physical characteristics of the well and what is known about the performance of the formation in which the well has been installed. There are several suitable devices which can be used for evacuation. The most commonly employed devices are air or gas actuated pumps, electric submersible pumps, and hand or mechanically actuated bailers. Our personnel frequently employ USGS/Middleburg positive displacement pumps or similar air actuated pumps which do not agitate the water standing in the well.

Normal evacuation removes three case volumes of water from the well. More than three case volumes of water are removed in cases where more evacuation is needed to achieve stabilization of water parameters and when requested by the local implementing agency. Less water may be removed in cases where the well dewaters and does not recharge to 80% of its original volume within two hours and any additional time our personnel have reason to remain at the site. In such cases, our personnel return to the site within twenty four hours and collect sample material from the water which has recharged into the well case.

Decontamination

All apparatus is brought to the site in clean and serviceable condition. The equipment is decontaminated after each use and before leaving the site. Effluent water from purging and on-site equipment cleaning is collected and transported to Shell's Martinez Manufacturing Complex in Martinez, California.

Free Product Skimmer

The column headed, VOLUME OF IMMISCIBLES REMOVED (ml) is included in the TABLE OF WELL GAUGING DATA to cover situations where a free product skimming device must be removed from the well prior to gauging. Skimmers are installed in wells with a free product zone on the surface of the water. The skimmer is a free product recovery device which often prevents normal well gauging and free product zone measurements. The 2.0" and 3.0" PetroTraps fall into the category of devices that obstruct normal gauging. In cases where the consultant elects to have our personnel pull the skimmers out of the well and gauge the well, our personnel perform the additional task of draining the accumulated free product out of the PetroTrap before putting it back in the well. This

recovered free product is measured and logged in the VOLUME OF IMMISCIBLES REMOVED column. Gauging at such sites is performed in accordance with specific directions from the professional consulting firm overseeing work at the site on Shell's behalf.

Sample Containers

Sample material is collected in specially prepared containers which are provided by the laboratory that performs the analyses.

Sampling

Sample material is collected in stainless steel bailer type devices normally fitted with both a top and a bottom check valve. Water is promptly decanted into new sample containers in a manner which reduces the loss of volatile constituents and follows the applicable EPA standard for handling volatile organic and semi-volatile compounds.

Following collection, samples are promptly placed in an ice chest containing prefrozen blocks of an inert ice substitute such as Blue Ice or Super Ice. The samples are maintained in either an ice chest or a refrigerator until delivered into the custody of the laboratory.

Sample Designations

All sample containers are identified with a site designation and a discrete sample identification number specific to that particular groundwater well. Additional standard notations (e.g. time, date, sampler) are also made on the label.

Chain of Custody

Samples are continuously maintained in an appropriate cooled container while in our custody and until delivered to the laboratory under a standard Shell Oil Company chain of custody. If the samples are taken charge of by a different party (such as another person from our office, a courier, etc.) prior to being delivered to the laboratory, appropriate release and acceptance records are made on the chain of custody (time, date, and signature of the person releasing the samples followed by the time, date and signature of the person accepting custody of the samples).

Hazardous Materials Testing Laboratory

The samples obtained at this site were delivered to National Environmental Testing, Inc. in Santa Rosa, California. NET is a California Department of Health Services certified Hazardous Materials Testing Laboratory and is listed as DOHS HMTL #178.

Objective Information Collection

Blaine Tech Services, Inc. performs specialized environmental sampling and documentation as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. performs no consulting and does not become involved in the marketing or installation of remedial systems of any kind. Blaine Tech Services, Inc. is concerned only with the generation of objective information, not with the use of that information to support evaluations and recommendations concerning the environmental condition of the site. Even the straightforward interpretation of objective analytical data is better performed by interested regulatory agencies, and those engineers and geologists who are engaged in the work of providing professional opinions about the site and proposals to perform additional investigation or design remedial systems.

Reportage

Submission of this report and the attached laboratory report to interested regulatory agencies is handled by the consultant in charge of the project. Any professional evaluations or recommendations will be made by the consultant under separate cover.

Please call if we can be of any further assistance.

Richard C. Blaine

RCB/lp

attachments: table of well gauging data
chain of custody
certified analytical report

cc: Pacific Environmental Group, Inc.
2025 Gateway Place, Suite #440
San Jose, CA 95110
ATTN: Rhonda Barrick

TABLE OF WELL GAUGING DATA

WELL I.D.	DATA COLLECTION DATE	MEASUREMENT REFERENCED TO	QUALITATIVE OBSERVATIONS (sheen)	DEPTH TO FIRST IMMISCIBLES LIQUID (FPZ) (feet)	THICKNESS OF IMMISCIBLES LIQUID ZONE (feet)	VOLUME OF IMMISCIBLES REMOVED (ml)	DEPTH TO WATER (feet)	DEPTH TO WELL BOTTOM (feet)
S-1	12/15/94	TOB	ODOR	NONE	--	--	7.15	24.67
S-2	12/15/94	TOB	--	NONE	--	--	9.12	22.42
S-3 *	12/15/94	TOB	ODOR	NONE	--	--	7.81	20.53

* Sample DUP was a duplicate sample taken from well S-3.

4516

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 941215 J1

Date: 12/15/94
Page 1 of 1

Site Address: 4411 Foothill Blvd., Oakland

WIC#: 204-5508-3400

Shell Engineer: Dan Kirk
Phone No.: (510) 675-6168
Fax #: 675-6160

Consultant Name & Address: Blaine Tech Services, Inc.
985 Timothy Drive San Jose, CA 95133

Consultant Contact: Jim Keller
Phone No.: (408) 995-5535
Fax #: 293-8773

Comments:

Sampled by:

Printed Name: JEAN GATINEAU

LAB: NET

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	Combination TPH 8015 & BTEX 8020			Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
S-1	12/15			X		5		X				X								
S-2	↓			↓		3						↓								
S-3						↓														
DUP																				
E.B.						↓														
T.B.	↓			↓		2						↓								

CUSTODY SEALED 12/16/94
Seal intact J.S.

Relinquished By (signature):	Printed Name:	Date:	Time:	Received (signature):	Printed Name:	Date:	Time:
Jean Gatineau	JEAN GATINEAU	12/15	20:50		GJ LUMBRE	12/16	10:00
GJ Lumbre	GJ LUMBRE	12/16	19:30	J. Sorensen	J. SORENSEN	12/16/94	10:15
Relinquished By (signature):	Printed Name:	Date:	Time:	Received (signature):	Printed Name:	Date:	Time:

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

NATIONAL ENVIRONMENTAL TESTING, INC.

Santa Rosa Division
435 Tesconi Circle
Santa Rosa, CA 95401
Tel: (707) 526-7200
Fax: (707) 526-9623

Jim Keller
Blaine Tech Services
985 Timothy Dr.
San Jose, CA 95133

Date: 01/05/1995
NET Client Acct. No: 1821
NET Pacific Job No: 94.06139
Received: 12/17/1994

Client Reference Information

SHELL, 4411 Foothill Blvd., Oakland, Job No. 941215-J1

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety. 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:

Judy Ridley
Project Coordinator

Jim Hoch
Operations Manager

Enclosure(s)

Client Name: Blaine Tech Services Date: 01/05/1995
Client Acct: 1821 ELAP Cert: 1386
NET Job No: 94.06139 Page: 2

Ref: SHELL, 4411 Foothill Blvd., Oakland, Job No. 941215-J1

SAMPLE DESCRIPTION: S-1
Date Taken: 12/15/1994
Time Taken:
NET Sample No: 231505

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
TPH (Gas/BTXE,Liquid)								
METHOD 5030/M8015	--						12/26/1994	2415
DILUTION FACTOR*	10						12/26/1994	2415
as Gasoline	30,000		500	ug/L	5030		12/26/1994	2415
Carbon Range:	C5-C14						12/26/1994	2415
METHOD 8020 (GC,Liquid)	--						12/26/1994	2415
Benzene	1,100		100	ug/L	8020		12/30/1994	2436
Toluene	4,700		100	ug/L	8020		12/30/1994	2436
Ethylbenzene	1,600		100	ug/L	8020		12/30/1994	2436
Xylenes (Total)	10,000		100	ug/L	8020		12/30/1994	2436
SURROGATE RESULTS	--						12/26/1994	2415
Bromofluorobenzene (SURR)	115			% Rec.	5030		12/26/1994	2415
METHOD M8015 (EXT., Liquid)						12/21/1994		
DILUTION FACTOR*	1						12/23/1994	877
as Diesel	3,100	DL	50	ug/L	3510		12/23/1994	877
as Motor Oil	ND		500	ug/L	3510		12/23/1994	877
Carbon Range:	<C10-C16						12/23/1994	877

DL : The positive result appears to be a lighter hydrocarbon than Diesel.

Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 94.06139

Date: 01/05/1995
ELAP Cert: 1386
Page: 3

Ref: SHELL, 4411 Foothill Blvd., Oakland, Job No. 941215-J1

SAMPLE DESCRIPTION: S-2
Date Taken: 12/15/1994
Time Taken:
NET Sample No: 231506

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
TPH (Gas/BTXE,Liquid)								
METHOD 5030/M8015	--						12/26/1994	2415
DILUTION FACTOR*	1						12/26/1994	2415
as Gasoline	1,600		50	ug/L	5030		12/26/1994	2415
Carbon Range:	C5-C14						12/26/1994	2415
METHOD 8020 (GC,Liquid)	--						12/26/1994	2415
Benzene	450		20	ug/L	8020		12/30/1994	2436
Toluene	300		20	ug/L	8020		12/30/1994	2436
Ethylbenzene	67		20	ug/L	8020		12/30/1994	2436
Xylenes (Total)	130		20	ug/L	8020		12/30/1994	2436
SURROGATE RESULTS	--						12/26/1994	2415
Bromofluorobenzene (SURR)	113			% Rec.	5030		12/26/1994	2415

Ref: SHELL, 4411 Foothill Blvd., Oakland, Job No. 941215-J1

SAMPLE DESCRIPTION: S-3
Date Taken: 12/15/1994
Time Taken:
NET Sample No: 231507

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
TPH (Gas/BTXE,Liquid)								
METHOD 5030/M8015	--						12/26/1994	2415
DILUTION FACTOR*	10						12/26/1994	2415
as Gasoline	18,000		500	ug/L	5030		12/26/1994	2415
Carbon Range:	C5-C14						12/26/1994	2415
METHOD 8020 (GC,Liquid)	--						12/26/1994	2415
Benzene	520		50	ug/L	8020		12/30/1994	2436
Toluene	800		50	ug/L	8020		12/30/1994	2436
Ethylbenzene	1,100		50	ug/L	8020		12/30/1994	2436
Xylenes (Total)	4,200		50	ug/L	8020		12/30/1994	2436
SURROGATE RESULTS	--						12/26/1994	2415
Bromofluorobenzene (SURR)	119			% Rec.	5030		12/26/1994	2415

Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 94.06139

Date: 01/05/1995
ELAP Cert: 1386
Page: 5

Ref: SHELL, 4411 Foothill Blvd., Oakland, Job No. 941215-J1

SAMPLE DESCRIPTION: DUP
Date Taken: 12/15/1994
Time Taken:
NET Sample No: 231508

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
TPH (Gas/BTXE,Liquid)								
METHOD 5030/M8015	--						12/30/1994	2436
DILUTION FACTOR*	100						12/30/1994	2436
as Gasoline	23,000	FF	50	ug/L	5030		01/04/1995	2447
Carbon Range:	C5-C14						01/04/1995	2447
METHOD 8020 (GC,Liquid)	--						12/30/1994	2436
Benzene	1,000		50	ug/L	8020		12/30/1994	2436
Toluene	1,900		50	ug/L	8020		12/30/1994	2436
Ethylbenzene	2,000		50	ug/L	8020		12/30/1994	2436
Xylenes (Total)	8,600		50	ug/L	8020		12/30/1994	2436
SURROGATE RESULTS	--						12/30/1994	2436
Bromofluorobenzene (SURR)	90			% Rec.	5030		12/30/1994	2436

FF : Compound quantitated at a 100X dilution factor.

Ref: SHELL, 4411 Foothill Blvd., Oakland, Job No. 941215-J1

SAMPLE DESCRIPTION: E.B.
Date Taken: 12/15/1994
Time Taken:
NET Sample No: 231509

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
TPH (Gas/BTXE,Liquid)								
METHOD 5030/M8015	--						12/30/1994	2436
DILUTION FACTOR*	1						12/30/1994	2436
as Gasoline	ND		50	ug/L	5030		12/30/1994	2436
METHOD 8020 (GC,Liquid)	--						12/30/1994	2436
Benzene	ND		0.5	ug/L	8020		12/30/1994	2436
Toluene	ND		0.5	ug/L	8020		12/30/1994	2436
Ethylbenzene	ND		0.5	ug/L	8020		12/30/1994	2436
Xylenes (Total)	ND		0.5	ug/L	8020		12/30/1994	2436
SURROGATE RESULTS	--						12/30/1994	2436
Bromofluorobenzene (SURR)	85			% Rec.	5030		12/30/1994	2436

Ref: SHELL, 4411 Foothill Blvd., Oakland, Job No. 941215-J1

SAMPLE DESCRIPTION: T.B.
Date Taken: 12/15/1994
Time Taken:
NET Sample No: 231510

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
TPH (Gas/BTXE,Liquid)								
METHOD 5030/M8015	--						12/26/1994	2415
DILUTION FACTOR*	1						12/26/1994	2415
as Gasoline	ND		50	ug/L	5030		12/26/1994	2415
METHOD 8020 (GC,Liquid)	--						12/26/1994	2415
Benzene	ND		0.5	ug/L	8020		12/26/1994	2415
Toluene	ND		0.5	ug/L	8020		12/26/1994	2415
Ethylbenzene	ND		0.5	ug/L	8020		12/26/1994	2415
Xylenes (Total)	ND		0.5	ug/L	8020		12/26/1994	2415
SURROGATE RESULTS	--						12/26/1994	2415
Bromofluorobenzene (SURR)	102			% Rec.	5030		12/26/1994	2415

Ref: SHELL, 4411 Foothill Blvd., Oakland, Job No. 941215-J1

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV Standard % Recovery	CCV Standard Amount Found	CCV Standard Amount Expected	Units	Date Analyzed	Analyst Initials	Run Batch Number
TPH (Gas/BTXE,Liquid)							
as Gasoline	100.0	1.00	1.00	mg/L	12/26/1994	jmh	2415
Benzene	115.6	5.78	5.00	ug/L	12/26/1994	jmh	2415
Toluene	107.6	5.38	5.00	ug/L	12/26/1994	jmh	2415
Ethylbenzene	101.2	5.06	5.00	ug/L	12/26/1994	jmh	2415
Xylenes (Total)	100.0	15.0	15.0	ug/L	12/26/1994	jmh	2415
Bromofluorobenzene (SURR)	117.0	117	100	% Rec.	12/26/1994	jmh	2415
TPH (Gas/BTXE,Liquid)							
as Gasoline	95.0	0.95	1.00	mg/L	12/30/1994	aal	2436
Benzene	87.0	4.35	5.00	ug/L	12/30/1994	aal	2436
Toluene	92.6	4.63	5.00	ug/L	12/30/1994	aal	2436
Ethylbenzene	95.4	4.77	5.00	ug/L	12/30/1994	aal	2436
Xylenes (Total)	104.7	15.7	15.0	ug/L	12/30/1994	aal	2436
Bromofluorobenzene (SURR)	93.0	93	100	% Rec.	12/30/1994	aal	2436
TPH (Gas/BTXE,Liquid)							
as Gasoline	102.0	1.02	1.00	mg/L	01/04/1995	lss	2447
Benzene	93.2	4.66	5.00	ug/L	01/04/1995	lss	2447
Toluene	98.4	4.92	5.00	ug/L	01/04/1995	lss	2447
Ethylbenzene	103.6	5.18	5.00	ug/L	01/04/1995	lss	2447
Xylenes (Total)	99.3	14.9	15.0	ug/L	01/04/1995	lss	2447
Bromofluorobenzene (SURR)	98.0	98	100	% Rec.	01/04/1995	lss	2447
METHOD M8015 (EXT., Liquid)							
as Diesel	103.1	1031	1000	mg/L	12/23/1994	tdn	877

Ref: SHELL, 4411 Foothill Blvd., Oakland, Job No. 941215-J1

METHOD BLANK REPORT

Parameter	Method Blank Amount Found	Reporting Limit	Units	Date Analyzed	Analyst Initials	Run Batch Number
TPH (Gas/BTXE,Liquid)						
as Gasoline	ND	0.05	mg/L	12/26/1994	jmh	2415
Benzene	ND	0.5	ug/L	12/26/1994	jmh	2415
Toluene	ND	0.5	ug/L	12/26/1994	jmh	2415
Ethylbenzene	ND	0.5	ug/L	12/26/1994	jmh	2415
Xylenes (Total)	ND	0.5	ug/L	12/26/1994	jmh	2415
Bromofluorobenzene (SURR)	112		% Rec.	12/26/1994	jmh	2415
TPH (Gas/BTXE,Liquid)						
as Gasoline	ND	0.05	mg/L	12/30/1994	aal	2436
Benzene	ND	0.5	ug/L	12/30/1994	aal	2436
Toluene	ND	0.5	ug/L	12/30/1994	aal	2436
Ethylbenzene	ND	0.5	ug/L	12/30/1994	aal	2436
Xylenes (Total)	ND	0.5	ug/L	12/30/1994	aal	2436
Bromofluorobenzene (SURR)	75		% Rec.	12/30/1994	aal	2436
TPH (Gas/BTXE,Liquid)						
as Gasoline	ND	0.05	mg/L	01/04/1995	lss	2447
Benzene	ND	0.5	ug/L	01/04/1995	lss	2447
Toluene	ND	0.5	ug/L	01/04/1995	lss	2447
Ethylbenzene	ND	0.5	ug/L	01/04/1995	lss	2447
Xylenes (Total)	ND	0.5	ug/L	01/04/1995	lss	2447
Bromofluorobenzene (SURR)	90		% Rec.	01/04/1995	lss	2447
METHOD M8015 (EXT., Liquid)						
as Diesel	ND	0.05	mg/L	12/23/1994	tdn	877

Ref: SHELL, 4411 Foothill Blvd., Oakland, Job No. 941215-J1

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike % Rec.	Matrix Spike Dup % Rec.	RPD	Spike Amount	Sample Conc.	Matrix Spike Conc.	Matrix Spike Dup. Conc.	Units	Date Analyzed	Run Batch	Sample Spiked
TPH (Gas/BTXE,Liquid)											231510
as Gasoline	93.0	89.0	4.4	1.00	ND	0.93	0.89	mg/L	12/26/1994	2415	231510
Benzene	83.2	84.9	2.0	35.8	ND	29.8	30.4	ug/L	12/26/1994	2415	231510
Toluene	94.5	92.0	2.7	105	ND	99.2	96.6	ug/L	12/26/1994	2415	231510
TPH (Gas/BTXE,Liquid)											232017
as Gasoline	98.0	97.0	1.0	1.00	ND	0.98	0.97	mg/L	12/30/1994	2436	232017
Benzene	99.5	99.5	0.0	19.8	ND	19.7	19.7	ug/L	12/30/1994	2436	232017
Toluene	99.5	97.7	1.8	79.4	ND	79.0	77.6	ug/L	12/30/1994	2436	232017
TPH (Gas/BTXE,Liquid)											232362
as Gasoline	103.0	102.0	1.0	1.00	ND	1.03	1.02	mg/L	01/04/1995	2447	232362
Benzene	103.4	103.0	0.4	20.3	ND	21.0	20.9	ug/L	01/04/1995	2447	232362
Toluene	102.7	103.7	1.0	81.9	ND	84.1	84.9	ug/L	01/04/1995	2447	232362
METHOD M8015 (EXT., Liquid)											231564
as Diesel	59.5	68.5	14.1	2.00	ND	1.19	1.37	mg/L	12/23/1994	877	231564

Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 94.06139

Date: 01/05/1995
ELAP Cert: 1386
Page: 11

Ref: SHELL, 4411 Foothill Blvd., Oakland, Job No. 941215-J1

LABORATORY CONTROL SAMPLE REPORT

Parameter	LCS % Recovery	Duplicate LCS % Recovery	RPD	LCS Amount Found	Duplicate LCS Amount Found	LCS Amount Expected	Units	Date Analyzed	Analyst Initials	Run Batch
METHOD M8015 (EXT., Liquid)										
as Diesel	91.0			0.91		1.00	mg/L	12/23/1994	tdn	877

COOLER RECEIPT FORM

Project: Shell, Foothill, Oakland Log No: 4516
Cooler received on: 12/17/94 and checked on 12-17-94 by K. in Sidene
(signature) KS

Were custody papers present?.....YES NO
Were custody papers properly filled out?.....YES NO
Were the custody papers signed?.....YES NO
Was sufficient ice used?.....YES NO ~0.3°C
Did all bottles arrive in good condition (unbroken)?.....YES NO
Did bottle labels match COC?.....YES NO
Were proper bottles used for analysis indicated?.....YES NO
Correct preservatives used?.....YES NO
VOA vials checked for headspace bubbles?.....YES NO
Note which voas (if any) had bubbles:* OK

Sample descriptor:	Number of vials:

*All VOAs with headspace bubbles have been set aside so they will not be used for analysis.....YES NO

List here all other jobs received in the same cooler:

Client Job #	NET log #

(coolerrec)