



PACIFIC  
ENVIRONMENTAL  
GROUP, INC.

January 26, 1996  
Project 305-131.2C

Mr. R. Jeff Granberry  
Shell Oil Products Company  
P.O. Box 4023  
Concord, California 94524

Re: Quarterly Report - Fourth Quarter 1995  
Shell Service Station  
4411 Foothill Boulevard at High Street  
Oakland, California  
WIC No 204-5508-3400

Dear Mr. Granberry:

The following presents the results of the fourth quarter 1995 monitoring program for the site referenced above. This letter has been prepared for Shell Oil Products 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 6, 1995. Groundwater elevation contours for the sampling date are shown on Figure 1 and include data for the Chevron U.S.A. Products Company station and data for the BP Oil station. Table 1 presents groundwater elevation data for the Shell service station.

Groundwater analytical data are presented in Table 2. Total purgeable petroleum hydrocarbons (TPPH), benzene, and total extractable petroleum hydrocarbons (TEPH) concentrations for the December 1995 sampling event are shown on Figure 2. Blaine's groundwater sampling report, which includes field data and the certified analytical report, is presented as Attachment A.

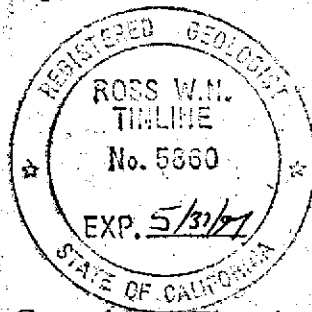
If you have any questions regarding the contents of this letter, please call.

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  
(TPPH, BTEX Compounds, TEPH,  
and TPH as Motor Oil)  
Figure 1 - Groundwater Elevation Contour Map  
Figure 2 - TPPH/Benzene/TEPH Concentration Map  
Attachment A - Groundwater Sampling Report

cc: Mr. Barney Chan, Alameda County Department of Environmental Health  
Mr. Mark Miller, Chevron U.S.A. Products Company  
Mr. Tom Fojut, Weiss Associates

**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
	03/30/95		6.09	32.22
	06/20/95		7.30	31.01
	09/20/95		10.02	28.29
12/06/95		11.64	26.67	
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	28.66
	09/22/94		10.51	28.28
	12/15/94		9.12	29.67
	03/30/95		7.86	30.93
	06/20/95		9.51	29.28
	09/20/95		10.06	28.73
	12/06/95		10.52	28.27
	S-3	05/28/93	37.33	8.45
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
03/30/95			7.06	30.27
06/20/95			8.15	29.18
09/20/95			9.32	28.01
12/06/95			10.53	26.80
MSL = Mean sea level				
TOB = Top of box				
NM = Not measured				
NA = Not available				

Table 2  
**Groundwater Analytical Data**  
**Total Petroleum Hydrocarbons**  
 (TPPH, BTEX Compounds, TEPH, and TPH as Motor Oil)

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

Well Number	Date Sampled	TPPH (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	TEPH (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
	03/30/95	e	30,000	1,400	4,000	1,500	11,000	3,100	b	ND
	06/20/95		28,000	1,100	2,300	1,100	8,300	2,100	NC	NC
	09/20/95		40,000	840	3,600	1,300	8,600	2,600	NC	NC
12/06/95		38,000	920	3,200	1,500	9,400	6,400	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	
	03/30/95	e	8,200	2,800	190	240	700	NA	NA	
	06/20/95		9,600	2,600	160	170	500	NA	NA	
	09/20/95		4,200	920	45	98	140	NA	NC	
12/06/95		ND f	790	67	64	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	
	03/30/95	e	8,800	360	730	700	3,700	NA	NA	
03/30/95(D)	e	7,600	330	570	600	2,600	NA	NA		
06/20/95		9,600	510	170	960	1,700	NA	NA		

Table 2 (continued)  
**Groundwater Analytical Data**  
 Total Petroleum Hydrocarbons  
 (TPPH, BTEX Compounds, TEPH, and TPH as Motor Oil)

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

Well Number	Date Sampled	TPPH (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	TEPH (ppb)	TPH as Motor Oil (ppb)
S-3	06/20/95(D)	9,800	500	170	950	1,700	NA	NA
(cont.)	09/20/95	21,000	400	560	1,300	4,600	NA	NA
	12/06/95	24,000	630	1,400	1,400	6,000	NA	NA
	12/06/95(D)	22,000	630	1,200	1,400	5,500	NA	NA
<p>TPPH = Total purgeable petroleum hydrocarbons            TEPH = Total extractable petroleum hydrocarbons            ppb = Parts per billion            NA = Not analyzed            ND = Not detected            NC = Not calculated, TPH as motor oil included with TEPH analysis.            (D) = Duplicate sample</p> <p>a. Phenolic and naphthalene compounds detected in Sample S-1 by semi-volatile organics (EPA Method 8270).            b. Laboratory noted that concentrations appears to be a lighter hydrocarbon than diesel.            c. Laboratory noted concentration due to a lighter petroleum product of hydrocarbon range C6 to C12.            d. Laboratory noted concentration due to hydrocarbon range C6 to C12.            e. National Environmental Testing, Inc., analyzed within hold time but further dilutions were required and analyzed out of hold time. NET suggests that these should be considered minimum concentrations.            f. Sample result is ND, but laboratory reporting limit for this analysis is 5,000 ppb.</p>								

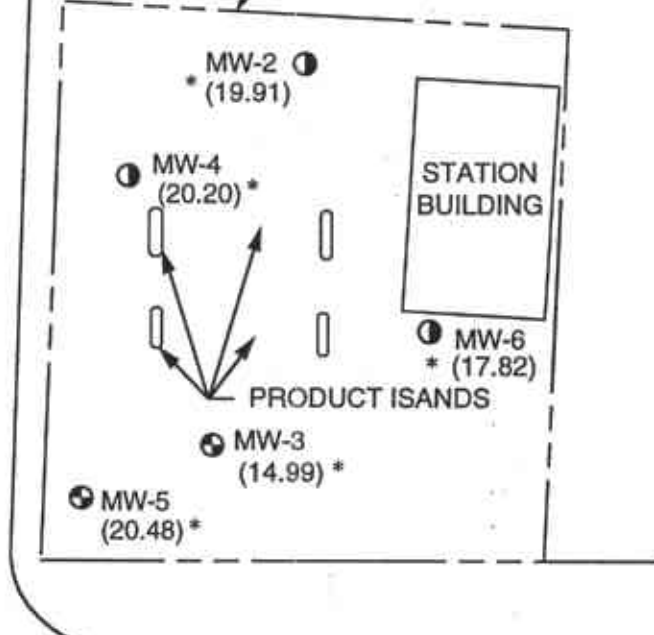
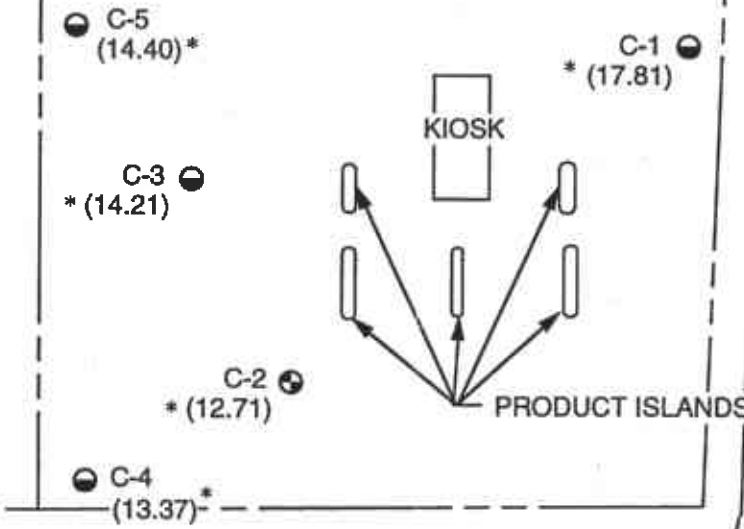


EAST 17th STREET

CHEVRON SERVICE STATION

FOOTHILL BOULEVARD

BP SERVICE STATION



C-8 (3.76)\*

C-6 (7.28)\*

C-7 \*(4.57)

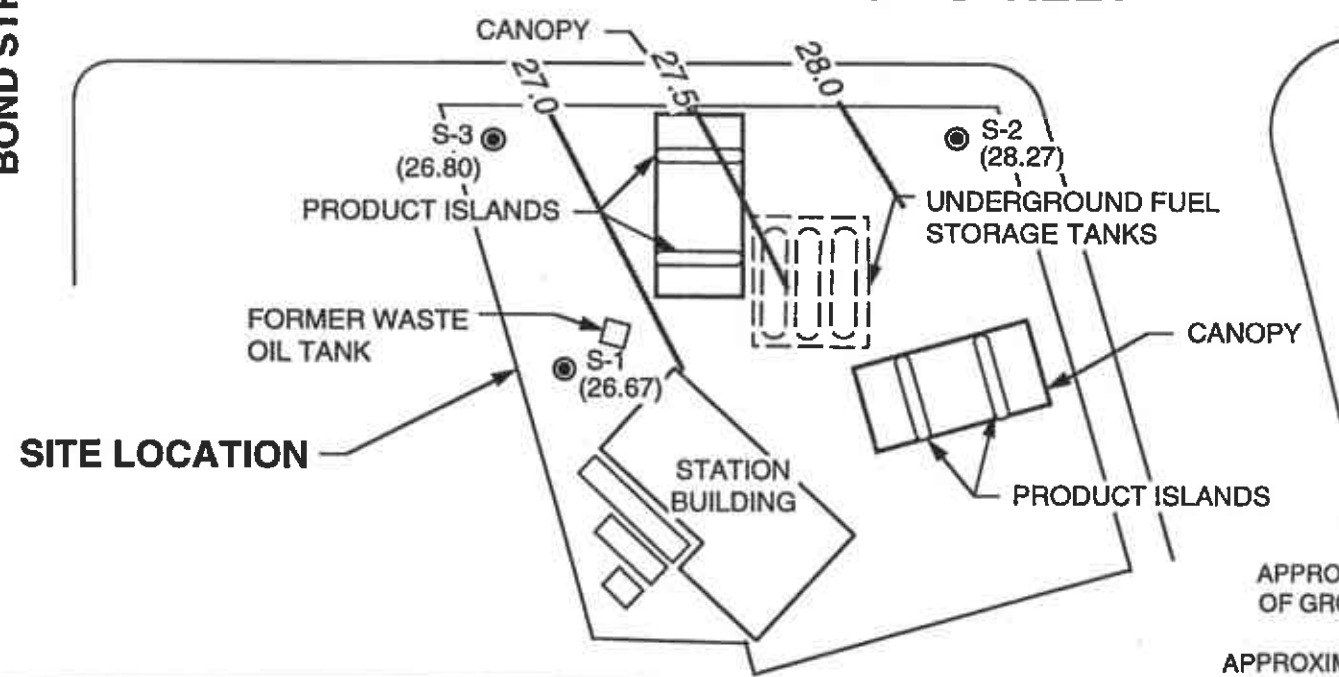
BOND STREET

HIGH STREET

MW-9 (25.18)\*

LEGEND

- S-3 ● GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION, (SHELL)
- C-1 ● GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION, (CHEVRON)
- MW-5 ● GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION, (BP)
- C-2 ● GROUNDWATER EXTRACTION WELL LOCATION AND DESIGNATION
- (28.73) GROUNDWATER ELEVATION IN FEET - MSL, 12-6-95
- 28.0 — GROUNDWATER ELEVATION CONTOUR IN FEET - MSL, 12-6-95
- \* WELL NOT USED IN CONTOURING

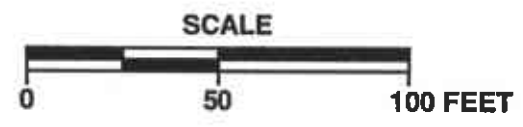


APPROXIMATE DIRECTION OF GROUNDWATER FLOW

APPROXIMATE GRADIENT = 0.01



PACIFIC ENVIRONMENTAL GROUP, INC.



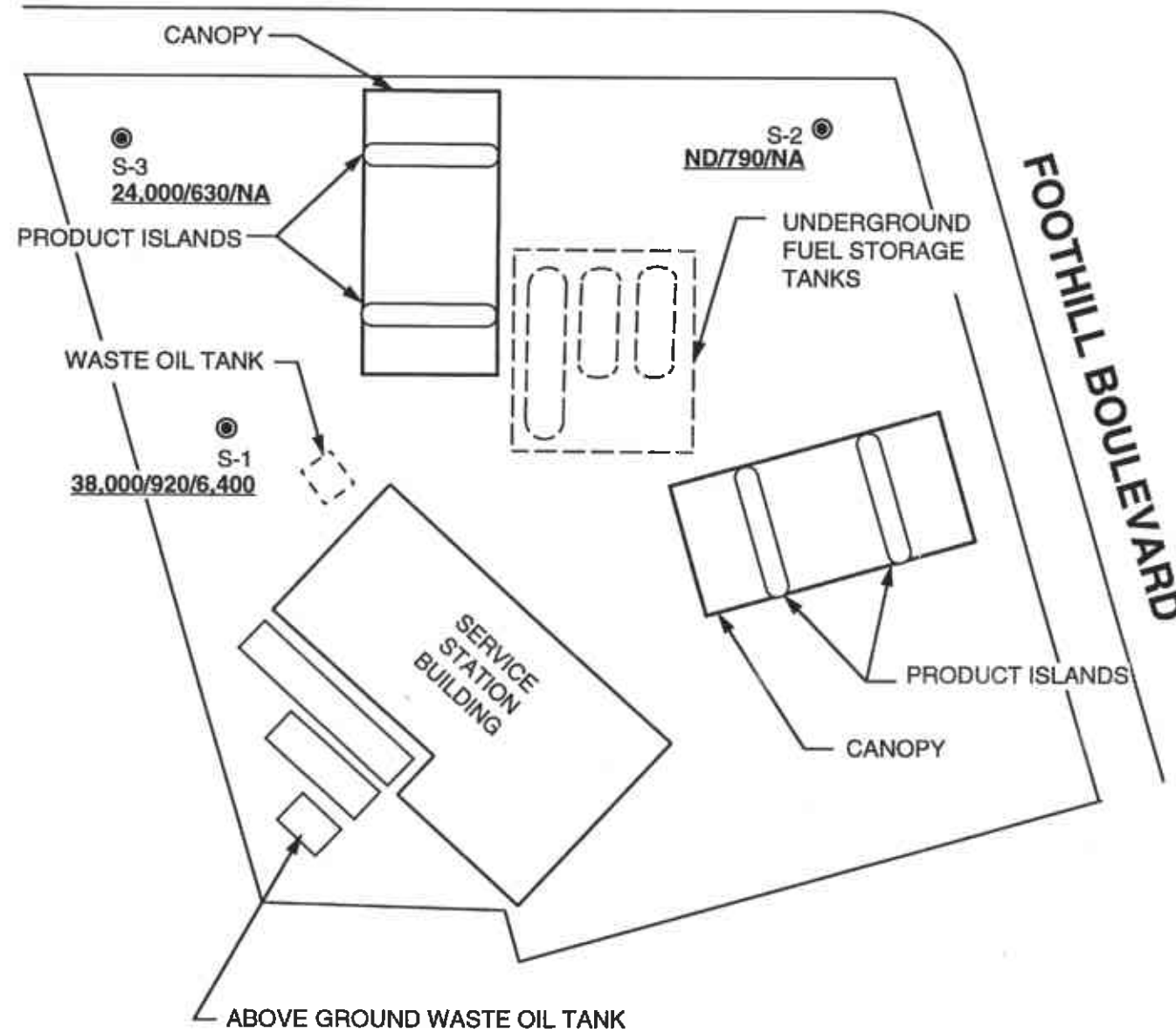
SHELL SERVICE STATION  
4411 Foothill Boulevard at High Street  
Oakland, California

GROUNDWATER ELEVATION CONTOUR MAP

FIGURE:  
1  
PROJECT:  
305-131.2C



HIGH STREET



**LEGEND**

S2 ● GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION

24,000/630/NA TPPH/BENZENE/TEPH CONCENTRATION IN GROUNDWATER, IN PARTS PER BILLION, 12-6-95

ND NOT DETECTED

NA NOT ANALYZED



APPROXIMATE DIRECTION OF GROUNDWATER FLOW



PACIFIC ENVIRONMENTAL GROUP, INC.

SCALE



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

TPPH/BENZENE/TEPH CONCENTRATION MAP

FIGURE:  
**2**  
PROJECT:  
305-131.2C

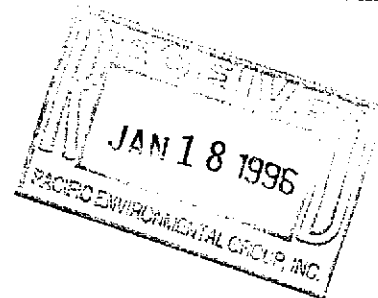
**ATTACHMENT A**  
**GROUNDWATER SAMPLING REPORT**



# BLAINE TECH SERVICES INC.

985 TIMOTHY DRIV  
SAN JOSE, CA 9513  
(408) 995-5500  
FAX (408) 293-8777

January 2, 1996



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

Attn: R. Jeff Granberry

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

4th Quarter 1995

## Quarterly Groundwater Monitoring Report 951206-D-1

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Blaine Tech Services, Inc. performs environmental sampling and documentation as an independent third party. Copies of our Sampling Report along with the laboratory's Certified Analytical Report are forwarded to the consultant overseeing work at this site. Submission of the assembled documents to interested regulatory agencies will be made by the designated consultant.

Groundwater monitoring at this site was performed in accordance with Standard Operating Procedures provided to the interested regulatory agencies. If you have any questions about the work performed at this site please call me at (408) 995-5535 ext. 201.

Yours truly,

Francis Thie

attachments: Table of Well Gauging Data  
Chain of Custody  
Field Data Sheets  
Certified Analytical Report

cc: Weiss Associates  
5500 Shellmound Street  
Emeryville, CA 94608-2411  
Attn: Grady Glasser

(Any professional evaluations or recommendations will be made by the consultant under separate cover.)

## 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	12/06/95	TOB	ODOR	--	--	--	11.64	24.60
S-2	12/06/95	TOB	ODOR	--	--	--	10.52	22.02
S-3 *	12/06/95	TOB	ODOR	--	--	--	10.53	20.50

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



**SHELL OIL COMPANY**  
RETAIL ENVIRONMENTAL ENGINEERING - WEST

**CHAIN OF CUSTODY RECORD**

Serial No: 951206-D1

Date: 12-6-85

Page 1 of 1

Silo Address: 4411 Foothill Blvd., Oakland

WICK#: 204-5508-3400

Shell Engineer: Don Kirk R. Jeff Granberry  
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: Mike D.

Printed Name: MIKE DILLOUGHERY

**Analysis Required**

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

LAB. NPT PACIFIC

CHECK ONE (1) BOX ONLY	CT/DI	TURN AROUND TIME
Quantity Monitoring <input checked="" type="checkbox"/> 6441		24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/> 6441		48 hours <input type="checkbox"/>
Soil Classfy/Disposal <input type="checkbox"/> 6442		16 days <input checked="" type="checkbox"/> (Normal)
Water Classfy/Disposal <input type="checkbox"/> 6443		Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/> 6462		
Water Rem. or Sys. O & M <input type="checkbox"/> 6463		
Other <input type="checkbox"/>		

NOTE: Holby Lab as soon as Possible of 24/48 hr. TAT.

Sample ID	Date	Sludge	Soil	Water	Air	No. of conls.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/802)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	motor oil	Asbestos	Container Size	Preparation Used	Composite Y/N	
S-1	X 12-6			W		5		X				X	X					
S-2	✓ 12-6					3						X						
S-3	✓ 12-6					3						X						
EB	✓ 12-6					3						X						
DUP	✓ 12-6					3						X						
TB	✓ 12-6					2						X						

CUSTODY SEALED  
Date: 12/2/85 Time: 1430 Initials: PS  
SEAL INTACT?  
Yes  No  Initials: PS  
VIA MS

Relinquished By (Signature): [Signature]  
Printed Name: MIKE DILLOUGHERY  
Date: 12/1/85 Time: 1045

Relinquished By (Signature): [Signature]  
Printed Name: P. Smart  
Date: 12-2-85 Time: 1430

Relinquished By (Signature):  
Printed Name:

Received (signature): [Signature]  
Printed Name: Phyllis Smart  
Date: 12/2/85 Time: 1042

Received (signature): [Signature]  
Printed Name: PAUL PROSSER  
Date: 12/8/85 Time: 0830

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



NATIONAL  
ENVIRONMENTAL  
TESTING, INC.

Santa Rosa Division  
3636 North Laughlin Road  
Suite 110  
Santa Rosa, CA 95403-8226  
Tel: (707) 526-7200  
Fax: (707) 541-2333

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

Date: 12/21/1995  
NET Client Acct. No: 1821  
NET Job No: 95.04683  
Received: 12/08/1995

Client Reference Information

Shell 4411 Foothill Blvd., Oakland, CA./951206-D1

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. Results apply only to the samples analyzed. All positive results have been confirmed as required. 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 free to call me at (707) 541-2305.

Submitted by:

A handwritten signature in cursive script that reads "Ginger Brinlee".

Ginger Brinlee  
Project Coordinator

Enclosure (s)





Client Name: Blaine Tech Services  
 Client Acct: 1821  
 NET Job No: 95.04683

Date: 12/21/1995  
 ELAP Cert: 1386  
 Page: 2

Ref: Shell 4411 Foothill Blvd., Oakland, CA./951206-D1

RECEIVED  
 JAN 23 1995  
 LABORATORY

SAMPLE DESCRIPTION: S-1  
 Date Taken: 12/06/1995  
 Time Taken:  
 NET Sample No: 257009

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Run
			Limit				Extracted	Analyzed	Batch No.
METHOD 5030/8015-M Shell+MTBE									
DILUTION FACTOR*	100							12/18/1995	3420
Purgeable TPH	38,000		5,000		ug/L	8015		12/18/1995	3420
Carbon Range: C6 to C12	--					8015		12/18/1995	3420
METHOD 8020 (GC, Liquid)									
Benzene	920		50		ug/L	8020		12/18/1995	3420
Toluene	3,200		50		ug/L	8020		12/18/1995	3420
Ethylbenzene	1,500		50		ug/L	8020		12/18/1995	3420
Xylenes (Total)	9,400		50		ug/L	8020		12/18/1995	3420
SURROGATE RESULTS									
Bromofluorobenzene (SURR)	102				% Rec.	8020		12/18/1995	3420
METHOD M8015 (EXT., Liquid)									
DILUTION FACTOR*	10						12/13/1995		
as Diesel	6,400	DL	500		ug/L	3510		12/14/1995	1130
as Motor Oil	ND		5,000		ug/L	3510		12/14/1995	1130

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

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services  
Client Acct: 1821  
NET Job No: 95.04683

Date: 12/21/1995  
ELAP Cert: 1386  
Page: 3

Ref: Shell 4411 Foothill Blvd., Oakland, CA./951206-D1

SAMPLE DESCRIPTION: S-2

Date Taken: 12/06/1995

Time Taken:

NET Sample No: 257010

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch No.
METHOD 5030/8015-M Shell+MTBE								
DILUTION FACTOR*	100						12/18/1995	3420
Purgeable TPH	ND		5,000	ug/L	8015		12/18/1995	3420
Carbon Range: C6 to C12	--				8015		12/18/1995	3420
METHOD 8020 (GC, Liquid)	--				8020		12/18/1995	3420
Benzene	790		50	ug/L	8020		12/18/1995	3420
Toluene	67		50	ug/L	8020		12/18/1995	3420
Ethylbenzene	64		50	ug/L	8020		12/18/1995	3420
Xylenes (Total)	130		50	ug/L	8020		12/18/1995	3420
SURROGATE RESULTS	--						12/18/1995	3420
Bromofluorobenzene (SURR)	100			% Rec.	8020		12/18/1995	3420

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services  
Client Acct: 1821  
NET Job No: 95.04683

Date: 12/21/1995  
ELAP Cert: 1386  
Page: 4

Ref: Shell 4411 Foothill Blvd., Oakland, CA./951206-D1

SAMPLE DESCRIPTION: S-3

Date Taken: 12/06/1995

Time Taken:

NET Sample No: 257011

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Run Batch No.
			Limit				Extracted	Analyzed	
METHOD 5030/8015-M Shell+MTBE									
DILUTION FACTOR*	50							12/18/1995	3420
Purgeable TPH	24,000		2,000		ug/L	8015		12/18/1995	3420
Carbon Range: C6 to C12	--					8015		12/18/1995	3420
METHOD 8020 (GC, Liquid)									
Benzene	630		20		ug/L	8020		12/18/1995	3420
Toluene	1,400		20		ug/L	8020		12/18/1995	3420
Ethylbenzene	1,400		20		ug/L	8020		12/18/1995	3420
Xylenes (Total)	6,000		20		ug/L	8020		12/18/1995	3420
SURROGATE RESULTS									
Bromofluorobenzene (SURR)	105				% Rec.	8020		12/18/1995	3420

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services  
Client Acct: 1821  
NET Job No: 95.04683

Date: 12/21/1995  
ELAP Cert: 1386  
Page: 5

Ref: Shell 4411 Foothill Blvd., Oakland, CA./951206-D1

SAMPLE DESCRIPTION: EB  
Date Taken: 12/06/1995  
Time Taken:  
NET Sample No: 257012

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch No.
METHOD 5030/8015-M Shell+MTBE								
DILUTION FACTOR*	1						12/14/1995	3407
Purgeable TPH	ND		50	ug/L	8015		12/14/1995	3407
Carbon Range: C6 to C12	--				8015		12/14/1995	3407
METHOD 8020 (GC, Liquid)	--				8020		12/14/1995	3407
Benzene	ND		0.5	ug/L	8020		12/14/1995	3407
Toluene	ND		0.5	ug/L	8020		12/14/1995	3407
Ethylbenzene	ND		0.5	ug/L	8020		12/14/1995	3407
Xylenes (Total)	ND		0.5	ug/L	8020		12/14/1995	3407
SURROGATE RESULTS	--						12/14/1995	3407
Bromofluorobenzene (SURR)	87			† Rec.	8020		12/14/1995	3407

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.





Client Name: Blaine Tech Services  
Client Acct: 1821  
NET Job No: 95.04683

Date: 12/21/1995  
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Ref: Shell 4411 Foothill Blvd., Oakland, CA./951206-D1

SAMPLE DESCRIPTION: DUP  
Date Taken: 12/06/1995  
Time Taken:  
NET Sample No: 257013

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch No.
METHOD 5030/8015-M Shell+MTBE								
DILUTION FACTOR*	50						12/18/1995	3420
Purgeable TPH	22,000		2,000	ug/L	8015		12/18/1995	3420
Carbon Range: C6 to C12	--				8015		12/18/1995	3420
METHOD 8020 (GC, Liquid)	--				8020		12/18/1995	3420
Benzene	630		20	ug/L	8020		12/18/1995	3420
Toluene	1,200		20	ug/L	8020		12/18/1995	3420
Ethylbenzene	1,400		20	ug/L	8020		12/18/1995	3420
Xylenes (Total)	5,500		20	ug/L	8020		12/18/1995	3420
SURROGATE RESULTS	--						12/18/1995	3420
Bromofluorobenzene (SURR)	102			% Rec.	8020		12/18/1995	3420

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services  
Client Acct: 1821  
NET Job No: 95.04683

Date: 12/21/1995  
ELAP Cert: 1386  
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Ref: Shell 4411 Foothill Blvd., Oakland, CA./951206-D1

SAMPLE DESCRIPTION: TB  
Date Taken: 12/06/1995  
Time Taken:  
NET Sample No: 257014

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Run
			Limit				Extracted	Analyzed	Batch
METHOD 5030/8015-M Shell+MTBE									
DILUTION FACTOR*	1						12/18/1995		3420
Purgeable TPH	ND		50		ug/L	8015	12/18/1995		3420
Carbon Range: C6 to C12	--					8015	12/18/1995		3420
METHOD 8020 (GC, Liquid)	--					8020	12/18/1995		3420
Benzene	ND		0.5		ug/L	8020	12/18/1995		3420
Toluene	ND		0.5		ug/L	8020	12/18/1995		3420
Ethylbenzene	ND		0.5		ug/L	8020	12/18/1995		3420
Xylenes (Total)	ND		0.5		ug/L	8020	12/18/1995		3420
SURROGATE RESULTS	--						12/18/1995		3420
Bromofluorobenzene (SURRE)	101				% Rec.	8020	12/18/1995		3420

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services  
Client Acct: 1821  
NET Job No: 95.04683

Date: 12/21/1995  
ELAP Cert: 1386  
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Ref: Shell 4411 Foothill Blvd., Oakland, CA./951206-D1

## CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV	CCV	CCV	Units	Date Analyzed	Analyst Initials	Run Batch Number
	Standard % Recovery	Standard Amount Found	Standard Amount Expected				
METHOD 5030/8015-M (Shell)							
Purgeable TPH	104.0	0.52	0.50	mg/L	12/13/1995	aal	3407
Benzene	102.4	5.12	5.00	ug/L	12/13/1995	aal	3407
Toluene	100.6	5.03	5.00	ug/L	12/13/1995	aal	3407
Ethylbenzene	102.2	5.11	5.00	ug/L	12/13/1995	aal	3407
Xylenes (Total)	100.7	15.1	15.0	ug/L	12/13/1995	aal	3407
Bromofluorobenzene (SURR)	95.0	95	100	% Rec.	12/13/1995	aal	3407
METHOD 5030/8015-M Shell+MTBE							
Purgeable TPH	994.0	4.97	0.50	mg/L	12/18/1995	dld	3420
Benzene	100.8	5.04	5.00	ug/L	12/18/1995	dld	3420
Toluene	103.4	5.17	5.00	ug/L	12/18/1995	dld	3420
Ethylbenzene	103.2	5.16	5.00	ug/L	12/18/1995	dld	3420
Xylenes (Total)	101.7	15.26	15.0	ug/L	12/18/1995	dld	3420
Bromofluorobenzene (SURR)	106.0	106	100	% Rec.	12/18/1995	dld	3420
METHOD M8015 (EXT., Liquid)							
as Diesel	104.0	1040	1000	mg/L	12/14/1995	tts	1130
as Motor Oil	96.0	960	1000	mg/L	12/14/1995	tts	1130

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services  
Client Acct: 1821  
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Ref: Shell 4411 Foothill Blvd., Oakland, CA./951206-D1

## METHOD BLANK REPORT

Parameter	Method	Reporting	Units	Date	Analyst	Run
	Blank					
METHOD 5030/8015-M (Shell)						
Purgeable TPH	ND	0.05	mg/L	12/13/1995	aal	3407
Benzene	ND	0.5	ug/L	12/13/1995	aal	3407
Toluene	ND	0.5	ug/L	12/13/1995	aal	3407
Ethylbenzene	ND	0.5	ug/L	12/13/1995	aal	3407
Xylenes (Total)	ND	0.5	ug/L	12/13/1995	aal	3407
Bromofluorobenzene (SURR)	93		‡ Rec.	12/13/1995	aal	3407
METHOD 5030/8015-M Shell+MTBE						
Purgeable TPH	ND	0.05	mg/L	12/18/1995	dld	3420
Benzene	ND	0.5	ug/L	12/18/1995	dld	3420
Toluene	ND	0.5	ug/L	12/18/1995	dld	3420
Ethylbenzene	ND	0.5	ug/L	12/18/1995	dld	3420
Xylenes (Total)	ND	0.5	ug/L	12/18/1995	dld	3420
Bromofluorobenzene (SURR)	91		‡ Rec.	12/18/1995	dld	3420
METHOD M8015 (EXT., Liquid)						
as Diesel	ND	0.05	mg/L	12/14/1995	tts	1130
as Motor Oil	ND	0.5	mg/L	12/14/1995	tts	1130

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services  
Client Acct: 1821  
NET Job No: 95.04683

Date: 12/21/1995  
ELAP Cert: 1386  
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Ref: Shell 4411 Foothill Blvd., Oakland, CA./951206-D1

## MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike			Spike Amount	Sample Conc.	Matrix Spike			Date Analyzed	Run Batch	Sample Spiked	
	Matrix Spike % Rec.	Dup % Rec.	RPD			Matrix Spike Conc.	Dup. Conc.	Units				
METHOD 5030/8015-M (Shell)												256987
Purgeable TPH	106.0	104.0	1.9	0.5	ND	0.53	0.52	mg/L	12/13/1995	3407		256987
Benzene	98.7	94.9	3.9	7.8	ND	7.7	7.4	ug/L	12/13/1995	3407		256987
Toluene	100.4	97.6	2.7	24.9	ND	25.0	24.3	ug/L	12/13/1995	3407		256987
METHOD 5030/8015-M Shell+MTBE												257014
Purgeable TPH	95.8	101.8	6.0	5.00	ND	4.79	5.09	mg/L	12/18/1995	3420		257014
Benzene	90.7	91.3	0.7	8.63	ND	7.83	7.88	ug/L	12/18/1995	3420		257014
Toluene	95.1	96.3	1.3	27.74	ND	26.38	26.70	ug/L	12/18/1995	3420		257014
METHOD M8015 (EXT., Liquid) as Diesel												257079
	56.5	56.5	0.0	2.00	0.19	1.32	1.32	mg/L	12/14/1995	1130		257079

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services  
Client Acct: 1821  
NET Job No: 95.04683

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ELAP Cert: 1386  
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Ref: Shell 4411 Foothill Blvd., Oakland, CA./951206-D1

### LABORATORY CONTROL SAMPLE REPORT

Parameter	LCS % Recovery	Duplicate		LCS Amount Found	Duplicate		Units	Date Analyzed	Analyst Initials	Run Batch
		LCS % Recovery	RPD		LCS Amount Found	LCS Amount Expected				
METHOD M8015 (EXT., Liquid) as Diesel	39.6			0.396	1.00	mg/L	12/14/1995	tts	1130	

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



## KEY TO ABBREVIATIONS and METHOD REFERENCES

- < : Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.
- \* : 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 (but do not multiply reported values).
- ICVS : Initial Calibration Verification Standard (External Standard).
- 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 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, rev. 1983.

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.

SM: see "Standard Methods for the Examination of Water & Wastewater, 17th Edition, APHA, 1989.

COOLER RECEIPT FORM

Project: 951206-01 Log No: 9520  
Cooler received on: 12/8/95 and checked on 12/8/95 by [Signature]  
(signature)

- Are custody papers present?.....~~YES~~ NO
  - Are custody papers properly filled out?.....~~YES~~ NO
  - Are the custody papers signed?.....~~YES~~ NO
  - Was sufficient ice used?.....~~YES~~ NO TEMP. 1°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
  - Did VOA vials checked for headspace bubbles?.....~~YES~~ NO
- Note which voas (if any) had bubbles:\*

Sample descriptor:	Number of vials:
<u>TB</u>	<u>1</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

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)





NATIONAL  
ENVIRONMENTAL  
TESTING, INC.

Santa Rosa Division  
3636 North Laughlin Road  
Suite 110  
Santa Rosa, CA 95403-8226  
Tel: (707) 526-7200  
Fax: (707) 541-2333

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

Date: 12/21/1995  
NET Client Acct. No: 1821  
NET Job No: 95.04683-A  
Received: 12/08/1995

Client Reference Information

Shell 4411 Foothill Blvd., Oakland, CA./951206-D1

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. Results apply only to the samples analyzed. All positive results have been confirmed as required. 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 free to call me at (707) 541-2305.

Submitted by:

A handwritten signature in cursive script that reads "Ginger Brunlee". The signature is written in black ink and is positioned above a horizontal line.

Ginger Brunlee  
Project Coordinator

Enclosure (s)





Client Name: Blaine Tech Services  
Client Acct: 1821  
NET Job No: 95.04683-A

Date: 12/21/1995  
ELAP Cert: 1386  
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Ref: Shell 4411 Foothill Blvd., Oakland, CA./951206-D1

SAMPLE DESCRIPTION: S-1

Date Taken: 12/06/1995

NET Sample No: 257009

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
METHOD 8020 (GC, Liquid)	--				8020		12/18/1995	3420
DILUTION FACTOR*	100						12/18/1995	3420
Methyl-tert-butyl ether	470		200	ug/L	8020		12/18/1995	3420
SURROGATE RESULTS	--						12/18/1995	3420
Bromofluorobenzene (SURR)	102			µg Rec.	8020		12/18/1995	3420

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services  
Client Acct: 1821  
NET Job No: 95.04683-A

Date: 12/21/1995  
ELAP Cert: 1386  
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Ref: Shell 4411 Foothill Blvd., Oakland, CA./951206-D1

SAMPLE DESCRIPTION: S-2

Date Taken: 12/06/1995

NET Sample No: 257010

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Run
			Limit				Extracted	Analyzed	Batch
METHOD 8020 (GC, Liquid)	--					8020		12/18/1995	3420
DILUTION FACTOR*	100							12/18/1995	3420
Methyl-tert-butyl ether	470		200		ug/L	8020		12/18/1995	3420
SURROGATE RESULTS	--							12/18/1995	3420
Bromofluorobenzene (SURR)	100				* Rec.	8020		12/18/1995	3420

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services  
Client Acct: 1821  
NET Job No: 95.04683-A

Date: 12/21/1995  
ELAP Cert: 1386  
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Ref: Shell 4411 Foothill Blvd., Oakland, CA./951206-D1

SAMPLE DESCRIPTION: S-3

Date Taken: 12/06/1995

NET Sample No: 257011

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Run
			Limit				Extracted	Analyzed	Batch
METHOD 8020 (GC, Liquid)	--					8020		12/18/1995	3420
DILUTION FACTOR*	50							12/18/1995	3420
Methyl-tert-butyl ether	64		100		ug/L	8020		12/18/1995	3420
SURROGATE RESULTS	--							12/18/1995	3420
Bromofluorobenzene (SURR)	105				* Rec.	8020		12/18/1995	3420

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services  
Client Acct: 1821  
NET Job No: 95.04683-A

Date: 12/21/1995  
ELAP Cert: 1386  
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Ref: Shell 4411 Foothill Blvd., Oakland, CA./951206-D1

SAMPLE DESCRIPTION: EB

Date Taken: 12/06/1995

NET Sample No: 257012

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Run
			Limit				Extracted	Analyzed	Batch
METHOD 8020 (GC, Liquid)	--					8020		12/14/1995	3407
DILUTION FACTOR*	1							12/14/1995	3407
Methyl-tert-butyl ether	ND		2		ug/L	8020		12/14/1995	3407
SURROGATE RESULTS	--							12/14/1995	3407
Bromofluorobenzene (SURR)	87				† Rec.	8020		12/14/1995	3407

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services  
Client Acct: 1821  
NET Job No: 95.04683-A

Date: 12/21/1995  
ELAP Cert: 1386  
Page: 6

Ref: Shell 4411 Foothill Blvd., Oakland, CA./951206-D1

SAMPLE DESCRIPTION: DUP

Date Taken: 12/06/1995

NET Sample No: 257013

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch No.
METHOD 8020 (GC, Liquid)	--				8020		12/18/1995	3420
DILUTION FACTOR*	50						12/18/1995	3420
Methyl-tert-butyl ether	65		100	ug/L	8020		12/18/1995	3420
SURROGATE RESULTS	--						12/18/1995	3420
Bromofluorobenzene (SURR)	102			% Rec.	8020		12/18/1995	3420

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services  
Client Acct: 1821  
NET Job No: 95.04683-A

Date: 12/21/1995  
ELAP Cert: 1386  
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Ref: Shell 4411 Foothill Blvd., Oakland, CA./951206-D1

SAMPLE DESCRIPTION: TB

Date Taken: 12/06/1995

NET Sample No: 257014

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Run
			Limit				Extracted	Analyzed	Batch
METHOD 8020 (GC, Liquid)	--					8020	12/18/1995	3420	
DILUTION FACTOR*	1						12/18/1995	3420	
Methyl-tert-butyl ether	ND		2	ug/L	8020		12/18/1995	3420	
SURROGATE RESULTS	--						12/18/1995	3420	
Bromofluorobenzene (SURR)	101			† Rec.	8020		12/18/1995	3420	

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services  
Client Acct: 1821  
NET Job No: 95.04683-A

Date: 12/21/1995  
ELAP Cert: 1386  
Page: 8

Ref: Shell 4411 Foothill Blvd., Oakland, CA./951206-D1

## CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV	CCV	CCV	Units	Date Analyzed	Analyst Initials	Run Batch Number
	Standard % Recovery	Standard Amount Found	Standard Amount Expected				
METHOD 5030/8015-M (Shell)							
Purgeable TPH	104.0	0.52	0.50	mg/L	12/13/1995	aal	3407
Benzene	102.4	5.12	5.00	ug/L	12/13/1995	aal	3407
Toluene	100.6	5.03	5.00	ug/L	12/13/1995	aal	3407
Ethylbenzene	102.2	5.11	5.00	ug/L	12/13/1995	aal	3407
Xylenes (Total)	100.7	15.1	15.0	ug/L	12/13/1995	aal	3407
Bromofluorobenzene (SURR)	95.0	95	100	% Rec.	12/13/1995	aal	3407
METHOD 5030/8015-M Shell+MTBE							
Purgeable TPH	994.0	4.97	0.50	mg/L	12/18/1995	dld	3420
Benzene	100.8	5.04	5.00	ug/L	12/18/1995	dld	3420
Toluene	103.4	5.17	5.00	ug/L	12/18/1995	dld	3420
Ethylbenzene	103.2	5.16	5.00	ug/L	12/18/1995	dld	3420
Xylenes (Total)	101.7	15.26	15.0	ug/L	12/18/1995	dld	3420
Bromofluorobenzene (SURR)	106.0	106	100	% Rec.	12/18/1995	dld	3420

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.





Client Name: Blaine Tech Services  
Client Acct: 1821  
NET Job No: 95.04683-A

Date: 12/21/1995  
ELAP Cert: 1386  
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Ref: Shell 4411 Foothill Blvd., Oakland, CA./951206-D1

## METHOD BLANK REPORT

Parameter	Method	Reporting	Units	Date	Analyst	Run
	Blank					
<hr/>						
METHOD 5030/8015-M (Shell)						
Purgeable TPH	ND	0.05	mg/L	12/13/1995	aal	3407
Benzene	ND	0.5	ug/L	12/13/1995	aal	3407
Toluene	ND	0.5	ug/L	12/13/1995	aal	3407
Ethylbenzene	ND	0.5	ug/L	12/13/1995	aal	3407
Xylenes (Total)	ND	0.5	ug/L	12/13/1995	aal	3407
Bromofluorobenzene (SURR)	93		† Rec.	12/13/1995	aal	3407
METHOD 5030/8015-M Shell+MTBE						
Purgeable TPH	ND	0.05	mg/L	12/18/1995	dld	3420
Benzene	ND	0.5	ug/L	12/18/1995	dld	3420
Toluene	ND	0.5	ug/L	12/18/1995	dld	3420
Ethylbenzene	ND	0.5	ug/L	12/18/1995	dld	3420
Xylenes (Total)	ND	0.5	ug/L	12/18/1995	dld	3420
Methyl-tert-butyl ether	ND	2	ug/L	12/18/1995	dld	3420
Bromofluorobenzene (SURR)	91		† Rec.	12/18/1995	dld	3420

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services  
Client Acct: 1821  
NET Job No: 95.04683-A

Date: 12/21/1995  
ELAP Cert: 1386  
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Ref: Shell 4411 Foothill Blvd., Oakland, CA./951206-D1

### MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike				Sample Conc.	Matrix Spike			Date Analyzed	Run Batch	Sample Soiked
	Spike Rec.	Dup Rec.	RPD	Spike Amount		Spike Conc.	Dup. Conc.	Units			
METHOD 5030/8015-M (Shell)											
Purgeable TPH	106.0	104.0	1.9	0.5	ND	0.53	0.52	mg/L	12/13/1995	3407	256987
Benzene	98.7	94.9	3.9	7.8	ND	7.7	7.4	ug/L	12/13/1995	3407	256987
Toluene	100.4	97.6	2.7	24.9	ND	25.0	24.3	ug/L	12/13/1995	3407	256987
METHOD 5030/8015-M Shell+MTBE											
Purgeable TPH	95.8	101.8	6.0	5.00	ND	4.79	5.09	mg/L	12/18/1995	3420	257014
Benzene	90.7	91.3	0.7	8.63	ND	7.83	7.88	ug/L	12/18/1995	3420	257014
Toluene	95.1	96.3	1.3	27.74	ND	26.38	26.70	ug/L	12/18/1995	3420	257014

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



## KEY TO ABBREVIATIONS and METHOD REFERENCES

- < : Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.
- \* : 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 (but do not multiply reported values).
- ICVS : Initial Calibration Verification Standard (External Standard).
- 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,  $100 \text{ [Value 1 - Value 2] / mean value}$ .
- 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 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, rev. 1983.

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.

SM: see "Standard Methods for the Examination of Water & Wastewater, 17th Edition, APHA, 1989.

# SHELL WELL MONITORING DATA SHEET

Project #: <u>951206-D1</u>	Wic #: <u>204-5508-3400</u>
Sampler: <u>MD</u>	Start Date: <u>12-6</u>
Well I.D.: <u>S-1</u>	Well Diameter: (circle one) 2 3 <u>4</u> 6
Total Well Depth: Before <u>24.60</u> After	Depth to Water: Before <u>11.64</u> After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: PVC <u>Grade</u> Other:	

Well Diameter	VCF	Well Diameter	VCF
1"	0.04	6"	1.47
2"	0.16	8"	2.61
3"	0.37	10"	4.08
4"	0.65	12"	5.87
5"	1.02	16"	10.43

<u>8.4</u>	x	<u>3</u>	=	<u>25.3</u>
1 Case Volume		Specified Volumes		gallons

Purging: Bailer Disposable Bailer Middleburg Electric Submersible <u>x</u> Extraction Pump Other _____	Sampling: Bailer <u>x</u> Disposable Bailer Extraction Port Other _____
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TIME	TEMP. (F)	PH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
9:50	68.0	7.0	640	35.7	8	ODOR
9:52	69.0	6.8	600	142.3	17	
9:53	68.2	6.6	620	148.2	25.5	

Did Well Dewater? <u>N</u> If yes, gals.	Gallons Actually Evacuated: <u>25.5</u>
Sampling Time: <u>9:55</u>	Sampling Date: <u>12-6-85</u>
Sample I.D.: <u>S-1</u>	Laboratory: <u>NET</u>
Analyzed for: <u>TPH-G</u> <u>BTEX</u> <u>TPH-D</u> OTHER: <u>MOTOR OIL</u>	
Duplicate I.D.:	Cleaning Blank I.D.:
Analyzed for: <u>TPH-G</u> <u>BTEX</u> <u>TPH-D</u> OTHER:	

# SHELL WELL MONITORING DATA SHEET

Project #: <u>951706-D1</u>	Wic #: <u>204-5508-3400</u>
Sampler: <u>MD</u>	Start Date: <u>12-6-95</u>
Well I.D.: <u>S-2</u>	Well Diameter: (circle one) 2 3 <u>4</u> 6
Total Well Depth: Before <u>22.02</u> After	Depth to Water: Before <u>10.52</u> After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: <del>FW</del> <u>Grade</u> Other:	

Well Diameter	VCF	Well Diameter	VCF
1"	0.04	6"	1.47
2"	0.16	8"	2.61
3"	0.37	10"	4.08
4"	0.65	12"	5.87
5"	1.02	16"	10.43

<u>7.5</u>	$\times$	<u>3</u>	$=$	<u>22.4</u>
1 Case Volume		Specified Volumes		gallons

Purging: <del>Bailer</del> Disposable Bailer Middleburg Electric Submersible <u>X</u> Extraction Pump Other _____	Sampling: <del>Bailer</del> <u>X</u> Disposable Bailer Extraction Port Other _____
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TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
<u>9:02</u>	<u>70.4</u>	<u>7.1</u>	<u>1300</u>	<u>47.6</u>	<u>7.5</u>	<u>ODOR</u>
<u>9:05</u>	<u>72.4</u>	<u>6.5</u>	<u>1000</u>	<u>63.8</u>	<u>15.0</u>	
<u>9:07</u>	<u>72.0</u>	<u>6.4</u>	<u>1000</u>	<u>93.2</u>	<u>22.5</u>	

Did Well Dewater? N If yes, gals. Gallons Actually Evacuated: 22.5

Sampling Time: <u>9:10</u>	Sampling Date: <u>12-6-95</u>
Sample I.D.: <u>S-2</u>	Laboratory: <u>NET</u>
Analyzed for: <u>TPH-G</u> <u>BTEX</u> TPH-D OTHER: <u>/</u>	
Duplicate I.D.:	Cleaning Blank I.D.:
Analyzed for: TPH-G BTEX TPH-D OTHER:	

# SHELL WELL MONITORING DATA SHEET

Project #: <u>957206-D1</u>	Wic #: <u>204-5508-3400</u>
Sampler: <u>MD</u>	Start Date: <u>12-6-95</u>
Well I.D.: <u>S-3</u>	Well Diameter: (circle one) 2 3 <u>4</u> 6
Total Well Depth: Before <u>20.50</u> After	Depth to Water: Before <u>10.53</u> After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to:	PVC <input type="checkbox"/> <u>Grade</u> <input checked="" type="checkbox"/> Other: <input type="checkbox"/>

Well Diameter	VCF	Well Diameter	VCF
1"	0.04	6"	1.47
2"	0.16	8"	2.61
3"	0.37	10"	4.08
4"	0.65	12"	5.87
5"	1.02	16"	10.43

<u>6.5</u>	$\times$	<u>3</u>	$=$	<u>19.5</u>
1 Case Volume		Specified Volumes		gallons

Purging: Bailer Disposable Bailer Middleburg Electric Submersible <input checked="" type="checkbox"/> Extraction Pump Other _____	Sampling: Bailer <input checked="" type="checkbox"/> Disposable Bailer Extraction Port Other _____
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TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
<u>8:28</u>	<u>69.6</u>	<u>7.2</u>	<u>600</u>	<u>42.9</u>	<u>6.5</u>	<u>ODOR</u>
<u>9:30</u>	<u>70.0</u>	<u>6.8</u>	<u>580</u>	<u>43.7</u>	<u>13.0</u>	
<u>9:31</u>	<u>69.2</u>	<u>6.6</u>	<u>580</u>	<u>77.5</u>	<u>19.5</u>	

Did Well Dewater?  If yes, gals.      Gallons Actually Evacuated: 19.5

Sampling Time: 9:35      Sampling Date: 12-6-95

Sample I.D.: S-3      Laboratory: NET

Analyzed for: TPH-G BTEX TPH-D OTHER:

Duplicate I.D.: DUP @ 9:40      Cleaning Blank I.D.: EB @ 9:20

Analyzed for: TPH-G BTEX TPH-D OTHER: