



Weiss Associates

5500 Shellmound Street, Emeryville, CA 94608-2411

Environmental and Geologic Services

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ENVIRONMENTAL
PROTECTION
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May 2, 1996

Scott Seery
Alameda County Department
of Environmental Health
Hazardous Materials Division
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **First Quarter 1996**
Shell Service Station
WIC #204-6852-1404
1784 150th Avenue
San Leandro, California
WA Job #81-0422-206

Dear Mr. Seery:

This status report satisfies the quarterly reporting requirements prescribed by California Administrative Code Title 23 Waters, Division 3, Chapter 16, Article 5, Section 2652.d.

First Quarter 1996 Activities

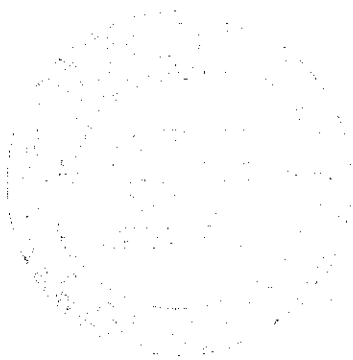
- Blaine Tech Services, Inc. (BTS) of San Jose, California measured ground water depths and collected ground water samples from the site wells (Figures 1 and 2). The BTS report describing these activities and the analytic report for the ground water samples are included as Attachment A.
- Weiss Associates (WA) calculated ground water elevations and compiled the analytic data (Tables 1 and 2), prepared a ground water elevation contour map and plotted benzene concentrations in ground water (Figure 2).
- WA met with you to discuss the proposed soil vapor survey (SVS). The SVS objective is to assess potential hydrocarbon migration pathways for a risk-based corrective action evaluation.
- Wells MW-1 and MW-3 were not sampled due to the presence of separate-phase hydrocarbons (SPH). The source of the SPH is not known. BTS sent a sample of the SPH to Shell's Westhollow research laboratory for analysis.

Anticipated Second Quarter 1996 Activities

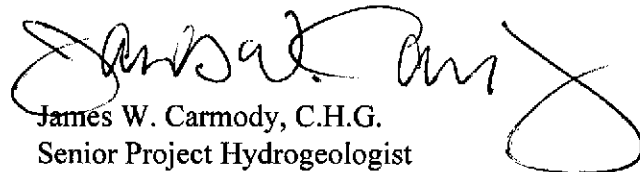
- WA will submit a report presenting the results of the second quarter 1996 ground water monitoring results. The report will include tabulated chemical analytic results, ground water elevations, and a ground water elevation contour map.
- ~~WA will conduct the soil vapor survey. WA will notify your agency of the field work once it is scheduled.~~ *
- WA will report the results of the SPH analysis. *

We trust that this submittal meets your needs. Please call if you have any questions or comments.

Sincerely,
Weiss Associates




Grady Glasser
Technical Coordinator


James W. Carmody, C.H.G.
Senior Project Hydrogeologist

Attachments: Figures
Tables
A - BTS Ground Water Monitoring Report

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

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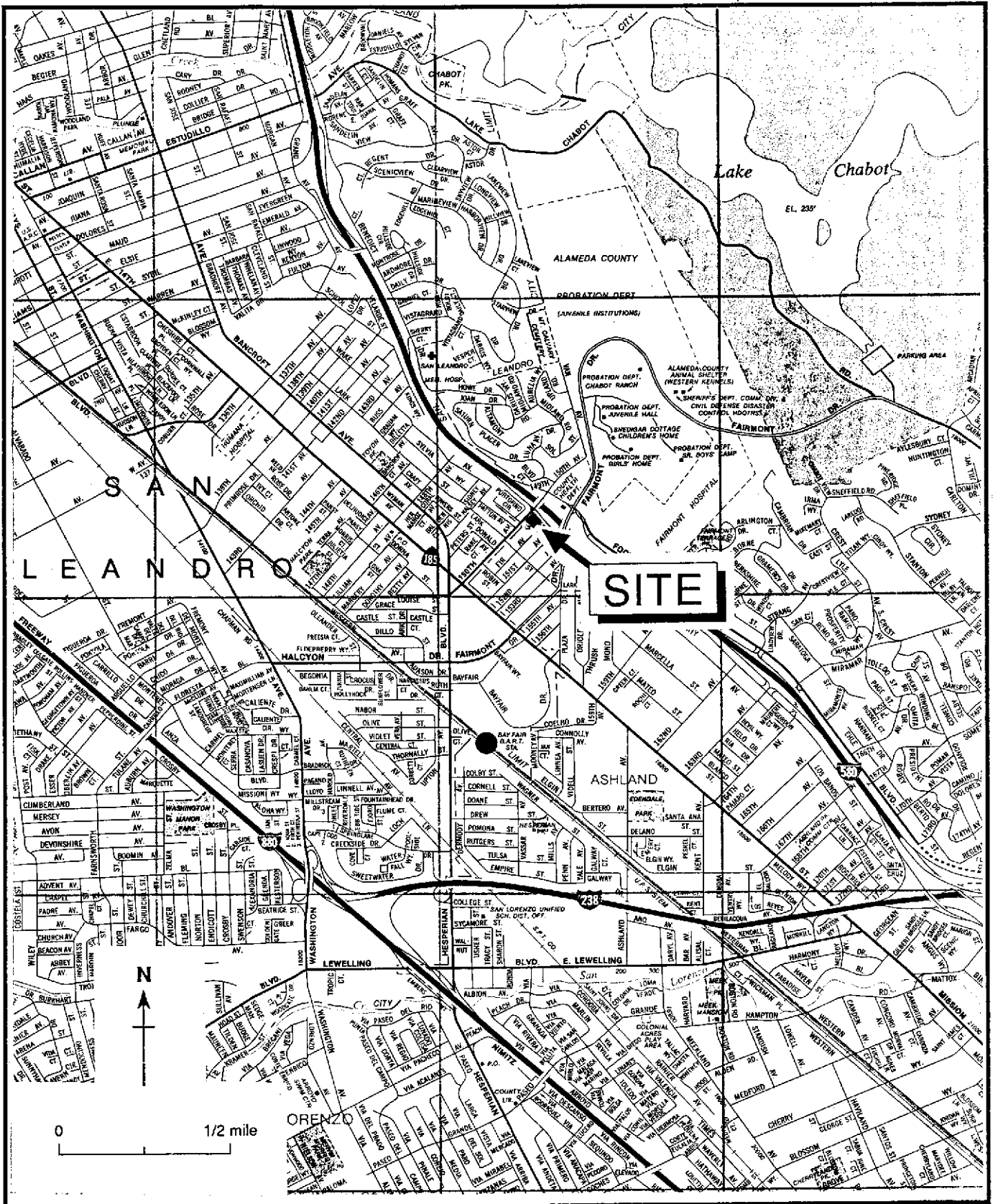


Figure 1. Site Location Map - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California

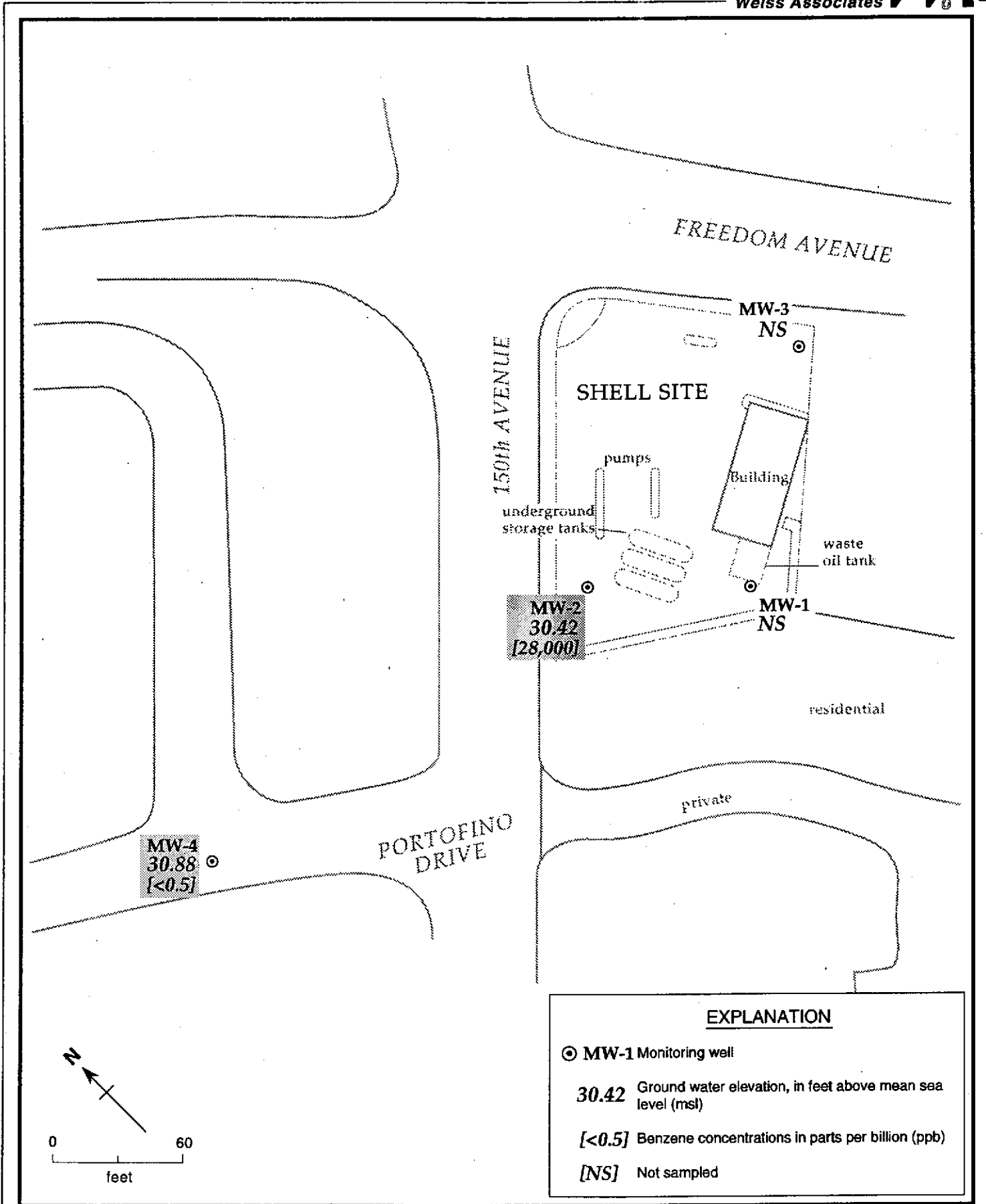


Figure 2. Monitoring Well Locations, Ground Water Elevation Contours, and Benzene Concentrations in Ground Water - March 6, 1996 - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California

Table 1. Ground Water Elevations - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
MW-1	03/08/90	49.13	25.29	23.84
	06/12/90		25.85	23.28
	09/13/90		27.49	21.64
	12/18/90		27.41	21.72
	03/07/91		25.79	23.34
	06/07/91		25.64	23.49
	09/17/91		27.54	21.59
	12/09/91		27.81	21.32
	02/13/92		25.57	23.56
	02/24/92		22.83	26.30
	02/27/92		23.09	26.04
	03/01/92		23.26	25.87
	06/03/92		24.64	24.49
	09/01/92		26.74	22.39
	10/06/92		27.18	21.95
	11/11/92		27.99	21.14
	12/04/92		27.14	21.99
	01/22/93		20.09	29.04
	02/10/93		24.26	24.87
	03/03/93		20.50	28.63
	05/11/93		21.70	27.43
	06/17/93		22.42	26.71
	09/10/93		24.11	25.02
	12/13/93		23.73	25.40
	03/03/94		22.08	27.05
	06/06/94		23.10	26.03
	09/12/94		25.19	23.94
	12/19/94		23.06	26.07
02/28/95	20.90	28.23		
03/24/95	18.28	30.85		
06/26/95	20.40	28.73		
09/13/95	22.62	26.51		
12/19/95	22.10	27.03		
MW-2	02/13/92	45.83	22.22	23.61
	02/24/92		19.61	26.22
	02/27/92		19.92	25.91
	03/01/92		21.11	24.72
	06/03/92		21.58	24.25
	09/01/92		23.46	22.37
	10/06/92		23.99	21.84
	11/11/92		24.25	21.58
12/04/92	23.89	21.94		

Table 1. Ground Water Elevations - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
	01/22/93		17.03	28.80
	02/10/93		18.08	27.75
	03/03/93		17.28	28.55
	05/11/93		18.41	27.42
	06/17/93		19.06	26.77
	09/10/93		20.88	24.95
	12/13/93		20.42	25.41
	03/03/94		18.48	27.35
	06/06/94		20.26	25.57
	09/12/94		21.80	24.03
	12/19/94		19.66	26.17
	02/28/95		17.51	28.32
	03/24/95		14.88	30.95
	06/26/95		17.58	28.25
	09/13/95		19.28	26.55
	12/19/95		18.61	27.22
	03/06/96		15.41	30.42
MW-3	02/13/92	51.97	27.97	24.00
	02/24/92		25.60	26.37
	02/27/92		25.88	26.09
	03/01/92		26.00	25.97
	06/03/92		27.70	24.27
	09/01/92		29.46	22.51
	10/06/92		30.01	21.96
	11/11/92		30.26	21.71
	12/04/92		29.93	22.04
	01/22/93		22.76	29.21
	02/10/93		21.40	30.57
	03/03/93		23.08	28.89
	05/11/93		24.51	27.46
	06/17/93		25.21	26.76
	09/10/93		26.95	25.02
	12/13/93		26.52	25.45
	03/03/94		24.50	27.47
	06/06/94		26.33	25.64
	09/12/94		27.98	23.99
	12/19/94		25.63	26.34
	02/28/95		23.45	28.52
	03/24/95		21.07	30.90
	06/26/95		23.64	28.33
	09/13/95		25.40	26.57
	12/19/95		24.53	27.44

Table 1. Ground Water Elevations - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
MW-4	03/24/95	40.51	9.16	31.35
	06/26/95		12.06	28.45
	09/13/95		13.90	26.61
	12/19/95		12.90	27.61
	03/06/96		9.63	30.88

Table 2. Analytic Results for Ground Water - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	POG	parts per billion (µg/l)				
						B	E	T	X	1,2-DCA
MW-1	03/08/90	25.29	510	120 ^a	<10,000	1.5	<0.5	0.8	5.4	12
	06/12/90	25.85	390	100 ^a	<10,000	86	0.7	1.3	6.2	<0.4
	09/13/90	27.49	100	130 ^a	<10,000	56	2.4	0.75	2.8	<0.4 ^b
	12/18/90	27.41	480	<50 ^a	<10,000	54	3.3	1.7	3.7	5.3
	03/07/91	25.79	80	<50 ^a	---	266	1.2	<0.5	<1.5	6.7
	06/07/91	25.64	510	<50 ^a	---	130	6.1	3.8	11	7.9
	09/17/91	27.54	330	120 ^{ac}	---	67	3	<0.5	2.2	6
	12/09/91	27.81	140 ^d	80	---	<0.5	1.7	<0.5	4.7	5.4
	03/01/92	23.36	<50	<50	---	<0.5	<0.5	<0.5	<0.5	3
	06/03/92	24.64	1,500	---	---	520	72	180	230	3
	09/01/92	26.74	130	---	---	16	1.8	1.4	3.4	1.3 ^e
	12/04/92	27.14	150	---	---	360	1.8	0.7	2.1	3.3
	03/03/93	20.50	<50	---	---	1.5	<0.5	<0.5	<0.5	0.76
	06/17/93	22.42	1,600	---	---	340	120	120	440	3
	09/10/93	24.11	2,600	---	---	670	310	340	730	2.3
	12/13/93	23.73	11,000	---	---	470	380	320	2,300	6.3
	03/03/94	22.08	16,000	---	---	700	480	690	3,200	---
	06/06/94	23.10	7,500	---	---	420	200	280	1,000	3.1
	09/12/94	25.19	1,200	---	---	110	3.3	21	420	2.6
	12/19/94	23.06	4,600	---	---	470	230	330	1,300	3.7
	02/28/95	20.90	500	---	---	59	6.8	32	68	5.0
06/26/95	20.40	5,500	---	---	740	300	420	1,800	8.6	
09/13/95	22.62	84,000	---	---	1,900	3,000	2,600	14,000	12	
12/19/95	22.10	80,000	---	---	660	170	350	18,000	<0.4	
FR	03/06/96	---	---	---	---	---	---	---	---	
MW-2	02/24/92	19.61	17,000	2,700 ^c	---	6,200	550	1,600	1,900	200
	03/01/92	21.11	86,000	1,000 ^c	---	30,000	2,300	34,000	16,000	82
	06/03/92	21.58	87,000	---	---	28,000	2,000	18,000	10,000	<50
	09/01/92	23.46	110,000	---	---	21,000	1,900	13,000	7,800	83 ^h

Table 2. Analytic Results for Ground Water - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	POG	parts per billion (µg/l)				
						B	E	T	X	1,2-DCA
	12/04/92	23.89	42,000	---	---	15,000	960	2,400	2,900	100
	03/03/93	17.28	160,000	---	---	36,000	32,000	3,800	21,000	7.7
	03/03/93 ^h	17.28	150,000	---	---	31,000	20,000	3,100	14,000	16
	06/17/93	19.06	65,000	---	---	34,000	3,200	15,000	11,000	37
	06/17/93 ^h	19.06	62,000	---	---	28,000	2,700	14,000	10,000	36
	09/10/93 ^f	20.88	72,000	---	---	24,000	2,300	16,000	11,000	28.0
	09/10/93 ^{dupf}	20.88	71,000	---	---	23,000	2,300	15,000	10,000	27.0
	12/13/93	20.42	19,000	---	---	5,400	680	4,900	3,100	<0.5
	12/13/93 ^{dup}		17,000	---	---	6,200	720	5,500	3,500	3.4
	03/03/94	18.48	110,000	---	---	21,000	2000	24,000	13,000	---
	03/03/94 ^{dup}	18.48	93,000	---	---	19,000	1,800	22,000	12,000	---
	06/06/94	20.26	10,000	---	---	1,900	2,500	3,300	13,000	5.8
	06/06/94 ^{dup}	20.26	99,000	---	---	9,900	2,400	12,000	12,000	5.7
	09/12/94	21.80	160,000	---	---	22,000	3,400	33,000	23,000	<0.4
	09/12/94 ^{dup}	21.80	150,000	---	---	23,000	3,500	34,000	23,000	<0.4
	12/19/94	19.66	80,000	---	---	17,000	2,300	16,000	14,000	<0.4
	12/19/94 ^{dup}	19.66	100,000	---	---	28,000	3,400	26,000	20,000	<0.4
	02/28/95	17.51	100,000	---	---	24,000	2,300	18,000	17,000	<0.4
	02/28/95 ^{dup}	17.51	100,000	---	---	31,000	3,200	21,000	18,000	<0.4
	06/26/95	17.58	45,000	---	---	14,000	1,500	12,000	7,500	3.4
	06/26/95 ^{dup}	17.58	68,000	---	---	13,000	1,800	11,000	7,700	---
	09/13/95	19.28	110,000	---	---	19,000	2,800	19,000	15,000	7.2
	09/13/95 ^{dup}	19.28	120,000	---	---	20,000	2,900	20,000	15,000	<0.4
	12/19/95	18.61	180,000	---	---	18,000	4,100	29,000	24,000	<0.4
	12/19/95 ^{dup}	18.61	160,000	---	---	18,000	3,800	28,000	24,000	<0.4
	03/06/96	15.41	120,000	---	---	28,000	3,900	15,000	17,000	<20
MW-3	02/24/92	25.60	4,500	1,300 ^c	---	97	78	<5	18	9.1
	03/01/92	26.00	2,200	440	---	69	<0.5	<0.5	<0.5	13
	06/03/92	27.70	4,100	---	---	13	44	72	65	16



Table 2. Analytic Results for Ground Water - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	POG	parts per billion (µg/l)				
						B	E	T	X	1,2-DCA
	09/01/92	29.46	1,900	---	---	20	5.5	6.8	<5	19
	09/01/92 ^{dup}	29.46	1,900	---	---	21	3.4	6.6	<5	21
	12/04/92	29.93	2,400	---	---	8.2	<5	<5	<5	16
	12/04/92 ^{dup}	29.93	2,100	---	---	11	5.7	<0.5	<0.5	18
	03/03/93	23.08	5,100	---	---	63	75	61	150	3.3
	06/17/93	25.21	4,000	---	---	94	82	140	150	23
	09/10/93	26.95	3,200	---	---	140	12.5	12.5	12.5	20.0
	12/13/93	26.52	6,200	---	---	<12.5	<12.5	<12.5	<12.5	13
	03/03/94	24.50	4,500	---	---	73	<5	<5	<5	---
	06/06/94	26.33	3,200	---	---	<0.5	3.1	<0.5	<0.5	16
	09/12/94	27.98	3,900	---	---	<0.5	9.6	<0.5	4.1	7.8
	12/19/94	25.63	2,400	---	---	21	4.2	22	2.6	25
	02/28/95	23.45	4,000	---	---	58	7.1	<0.5	3.5	18
	06/26/95	23.64	3,900	---	---	8.1	12	<0.5	2.4	15
	09/13/95	25.40	4,100	---	---	58	5.5	5.5	<0.5	6.7
	12/19/95	24.53	3,600	---	---	<0.5	2.1	4.3	1.1	6.6
FP	03/06/96	---	---	---	---	---	---	---	---	---
MW-4	03/24/95	9.16	<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.4
	06/26/95	12.06	<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.4
	09/13/95	13.90	<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.4
	12/19/95	12.90	<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.4
	03/06/96	9.63	<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.4
Trip	03/08/90		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
Blank	06/12/90		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	12/18/90		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	03/07/91		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	06/07/91		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	09/17/91		<50	---	---	<0.5	<0.5	<0.5	<0.5	---

Table 2. Analytic Results for Ground Water - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	POG	parts per billion (µg/l)				
						B	E	T	X	1,2-DCA
	12/09/91		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	02/24/92		<50	---	---	<0.5	0.6	2.5	2.2	---
	03/01/92		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	06/03/92		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	09/01/92		<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.5
	12/04/92		<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.5 ^j
	03/03/93		<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.5
	06/17/93		<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.5
	09/10/93		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	12/13/93		<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.5 ^k
	03/03/94		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	06/06/94		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	09/12/94		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	12/19/94		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	02/28/95		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	03/24/95		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	06/26/95		<50	---	---	4.1	<0.5	3.0	1.5	---
	09/13/95		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	12/19/95		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
Bailer	03/08/90		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
Blank	09/01/92		<50	---	---	<0.5	<0.5	0.7	<0.5	<0.5
	12/04/92		60	---	---	<0.5	<0.5	<0.5	<0.5	<0.5 ^j
DHS MCLs			NE	NE	NE	1	680	100 ^l	1,750	0.5

Table 2. Analytic Results for Ground Water - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California (continued)

Abbreviations:

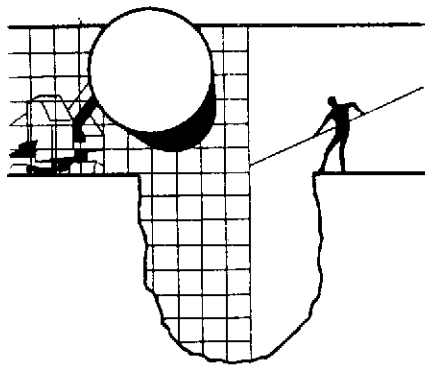
TPH-G = Total Petroleum Hydrocarbons as Gasoline by Modified EPA Method 8015
TPH-D = Total Petroleum Hydrocarbons as Diesel by Modified EPA Method 8015
POG = Petroleum oil and grease by American Public Health Association Standard Method 503E or 5520F
B = Benzene by EPA Method 8020
E = Ethylbenzene by EPA Method 8020
T = Toluene by EPA Method 8020
X = Xylenes by EPA Method 8020
1,2-DCA = 1,2-Dichloroethane by EPA Method 8010
--- = Not analyzed
<n = Not detected above method detection limit of n ppb
DHS MCLs = California Department of Health Services maximum contaminant levels for drinking water
NE = Not established
SPH = Seperate-phase hydrocarbons present in well

Notes:

a = No total petroleum hydrocarbons as motor oil detected above modified EPA Method 8015 detection limit of 500 ppb
b = Tetrachloroethene (PCE) detected at 24 ppb by EPA Method 601; DHS MCL for PCE = 5 ppb
c = Result is due to hydrocarbon compounds lighter than diesel
d = Result due to a non-gasoline hydrocarbon
e = In the matrix spike/matrix spike duplicate of sample MW-1, the RPD for Freon 113 and 1,3-dichlorobenzene was greater than 25%
f = The MW-2 and duplicate samples each contained 1.6 ppb of methylene chloride which is within normal laboratory background levels.
h = Sample MW-2 was diluted 1:100 for EPA Method 8010 due to the interfering hydrocarbon peaks
j = The trip and bailer blank samples contained 14 and 10 mg/L 1,3-dichlorobenzene, respectively
k = 1.4 mg/L Chloroethene detected in equipment blank, trip blank not analyzed
l = DHS recommended action level for drinking water; MCL not established

ATTACHMENT A

BTS GROUND WATER MONITORING REPORT



BLAINE TECH SERVICES INC.

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

March 27, 1996

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

Attn: R. Jeff Granberry

Shell WIC #204-6852-1404
1784 150th Avenue
San Leandro, California

1st Quarter 1996

Quarterly Groundwater Monitoring Report 960306-K-2

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 95608-2411
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)
MW-1	03/06/96	TOC	FREE PRODUCT					
MW-2 *	03/06/96	TOC	ODOR	NONE	--	--	15.41	44.40
MW-3	03/06/96	TOC	FREE PRODUCT					
MW-4	03/06/96	TOC	--	NONE	--	--	9.63	24.80

* Sample DUP was a duplicate sample taken from well MW-2.



NATIONAL
ENVIRONMENTAL
TESTING, INC.

Santa Rosa Division
3636 North Laughlin Road
Suite 110
Santa Rosa, CA 95403-8226
Tel: (707) 526-7200
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Jim Keller
Blaine Tech Services
985 Timothy Dr.
San Jose, CA 95133

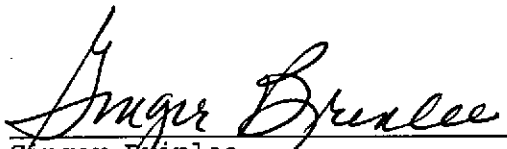
Date: 03/14/1996
NET Client Acct. No: 1821
NET Job No: 96.00862
Received: 03/08/1996

Client Reference Information

Shell 1784 150th Ave., San Leandro, CA/960306-K2

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:



Ginger Brinlee
Project Coordinator

Enclosure (s)



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 96.00862

Date: 03/14/1996
ELAP Cert: 1386
Page: 2

Ref: Shell 1784 150th Ave., San Leandro, CA/960306-K2

SAMPLE DESCRIPTION: MW2
NET SAMPLE NUMBER: 261743

DATE TAKEN: 03/06/1996
TIME TAKEN:

Parameter	Results	Flags	Reporting		Method	Date	Date	Batch No.
			Limit	Units		Extracted	Analyzed	
5030/8015-M/8020 (Shell)								
DILUTION FACTOR*	1,000						03/12/1996	3586
Purgeable TPH	120,000		50,000	ug/L	5030/M8015		03/12/1996	3586
Carbon Range: C6 to C12	--						03/12/1996	3586
8020 (GC, Liquid)	--						03/12/1996	3586
Benzene	28,000		500	ug/L	8020		03/12/1996	3586
Toluene	15,000		500	ug/L	8020		03/12/1996	3586
Ethylbenzene	3,900		500	ug/L	8020		03/12/1996	3586
Xylenes (Total)	17,000		500	ug/L	8020		03/12/1996	3586
SURROGATE RESULTS	--						03/12/1996	3586
Bromofluorobenzene (SURRE)	98			‡ Rec.	8020		03/12/1996	3586

SAMPLE DESCRIPTION: MW4
NET SAMPLE NUMBER: 261744

DATE TAKEN: 03/06/1996
TIME TAKEN:

Parameter	Results	Flags	Reporting		Method	Date	Date	Batch No.
			Limit	Units		Extracted	Analyzed	
5030/8015-M/8020 (Shell)								
DILUTION FACTOR*	1						03/12/1996	3586
Purgeable TPH	ND		50	ug/L	5030/M8015		03/12/1996	3586
Carbon Range: C6 to C12	--						03/12/1996	3586
8020 (GC, Liquid)	--						03/12/1996	3586
Benzene	ND		0.5	ug/L	8020		03/12/1996	3586
Toluene	ND		0.5	ug/L	8020		03/12/1996	3586
Ethylbenzene	ND		0.5	ug/L	8020		03/12/1996	3586
Xylenes (Total)	ND		0.5	ug/L	8020		03/12/1996	3586
SURROGATE RESULTS	--						03/12/1996	3586
Bromofluorobenzene (SURRE)	83			‡ Rec.	8020		03/12/1996	3586

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: 96.00862

Date: 03/14/1996
 ELAP Cert: 1386
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Ref: Shell 1784 150th Ave., San Leandro, CA/960306-K2

SAMPLE DESCRIPTION: MW2
 NET SAMPLE NUMBER: 261743

DATE TAKEN: 03/06/1996
 TIME TAKEN:

Parameter	Results	Flags	Reporting		Method	Date	Date	Batch
			Limit	Units		Extracted	Analyzed	No.
8010 (GC,Liquid)								
DILUTION FACTOR*	50						03/11/1996	977
Bromodichloromethane	ND		20	ug/L	8010		03/11/1996	977
Bromoform	ND		20	ug/L	8010		03/11/1996	977
Bromomethane	ND		20	ug/L	8010		03/11/1996	977
Carbon tetrachloride	ND		20	ug/L	8010		03/11/1996	977
Chlorobenzene	ND		20	ug/L	8010		03/11/1996	977
Chloroethane	ND		20	ug/L	8010		03/11/1996	977
2-Chloroethylvinyl ether	ND		50	ug/L	8010		03/11/1996	977
Chloroform	ND		20	ug/L	8010		03/11/1996	977
Chloromethane	ND		20	ug/L	8010		03/11/1996	977
Dibromochloromethane	ND		20	ug/L	8010		03/11/1996	977
1,2-Dichlorobenzene	ND		20	ug/L	8010		03/11/1996	977
1,3-Dichlorobenzene	ND		20	ug/L	8010		03/11/1996	977
1,4-Dichlorobenzene	ND		20	ug/L	8010		03/11/1996	977
Dichlorodifluoromethane	ND		20	ug/L	8010		03/11/1996	977
1,1-Dichloroethane	ND		20	ug/L	8010		03/11/1996	977
1,2-Dichloroethane	ND		20	ug/L	8010		03/11/1996	977
1,1-Dichloroethene	ND		20	ug/L	8010		03/11/1996	977
cis-1,2-Dichloroethene	ND		20	ug/L	8010		03/11/1996	977
trans-1,2-Dichloroethene	ND		20	ug/L	8010		03/11/1996	977
1,2-Dichloropropane	ND		20	ug/L	8010		03/11/1996	977
cis-1,3-Dichloropropene	ND		20	ug/L	8010		03/11/1996	977
trans-1,3-Dichloropropene	ND		20	ug/L	8010		03/11/1996	977
Freon 113	ND		50	ug/L	8010		03/11/1996	977
Methylene chloride	ND		500	ug/L	8010		03/11/1996	977
1,1,2,2-Tetrachloroethane	ND		20	ug/L	8010		03/11/1996	977
Tetrachloroethene	ND		20	ug/L	8010		03/11/1996	977
1,1,1-Trichloroethane	ND		20	ug/L	8010		03/11/1996	977
1,1,2-Trichloroethane	ND		50	ug/L	8010		03/11/1996	977
Trichloroethene	ND		20	ug/L	8010		03/11/1996	977
Trichlorofluoromethane	ND		20	ug/L	8010		03/11/1996	977
Vinyl chloride	ND		20	ug/L	8010		03/11/1996	977
SURROGATE RESULTS	--						03/11/1996	977
1,4-Difluorobenzene (Surr)	101				% Rec.		03/11/1996	977
1,4-Dichlorobutane (Surr)	79				% Rec.		03/11/1996	977

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Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 96.00862

Date: 03/14/1996
ELAP Cert: 1386
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Ref: Shell 1784 150th Ave., San Leandro, CA/960306-K2

SAMPLE DESCRIPTION: MW4
NET SAMPLE NUMBER: 261744

DATE TAKEN: 03/06/1996
TIME TAKEN:

Parameter	Results	Flags	Reporting			Date	Date	Batch
			Limit	Units	Method	Extracted	Analyzed	No.
8010 (GC,Liquid)								
DILUTION FACTOR*	1						03/11/1996	977
Bromodichloromethane	ND		0.4	ug/L	8010		03/11/1996	977
Bromoform	ND		0.4	ug/L	8010		03/11/1996	977
Bromomethane	ND		0.4	ug/L	8010		03/11/1996	977
Carbon tetrachloride	ND		0.4	ug/L	8010		03/11/1996	977
Chlorobenzene	ND		0.4	ug/L	8010		03/11/1996	977
Chloroethane	ND		0.4	ug/L	8010		03/11/1996	977
2-Chloroethylvinyl ether	ND		1.0	ug/L	8010		03/11/1996	977
Chloroform	ND		0.4	ug/L	8010		03/11/1996	977
Chloromethane	ND		0.4	ug/L	8010		03/11/1996	977
Dibromochloromethane	ND		0.4	ug/L	8010		03/11/1996	977
1,2-Dichlorobenzene	ND		0.4	ug/L	8010		03/11/1996	977
1,3-Dichlorobenzene	ND		0.4	ug/L	8010		03/11/1996	977
1,4-Dichlorobenzene	ND		0.4	ug/L	8010		03/11/1996	977
Dichlorodifluoromethane	ND		0.4	ug/L	8010		03/11/1996	977
1,1-Dichloroethane	ND		0.4	ug/L	8010		03/11/1996	977
1,2-Dichloroethane	ND		0.4	ug/L	8010		03/11/1996	977
1,1-Dichloroethene	ND		0.4	ug/L	8010		03/11/1996	977
cis-1,2-Dichloroethene	ND		0.5	ug/L	8010		03/11/1996	977
trans-1,2-Dichloroethene	ND		0.4	ug/L	8010		03/11/1996	977
1,2-Dichloropropane	ND		0.4	ug/L	8010		03/11/1996	977
cis-1,3-Dichloropropene	ND		0.4	ug/L	8010		03/11/1996	977
trans-1,3-Dichloropropene	ND		0.4	ug/L	8010		03/11/1996	977
Freon 113	ND		1.0	ug/L	8010		03/11/1996	977
Methylene chloride	ND		10	ug/L	8010		03/11/1996	977
1,1,2,2-Tetrachloroethane	ND		0.4	ug/L	8010		03/11/1996	977
Tetrachloroethene	ND		0.4	ug/L	8010		03/11/1996	977
1,1,1-Trichloroethane	ND		0.4	ug/L	8010		03/11/1996	977
1,1,2-Trichloroethane	ND		1	ug/L	8010		03/11/1996	977
Trichloroethene	ND		0.4	ug/L	8010		03/11/1996	977
Trichlorofluoromethane	ND		0.4	ug/L	8010		03/11/1996	977
Vinyl chloride	ND		0.4	ug/L	8010		03/11/1996	977
SURROGATE RESULTS	--						03/11/1996	977
1,4-Difluorobenzene (SURR)	100			% Rec.			03/11/1996	977
1,4-Dichlorobutane (SURR)	80			% Rec.			03/11/1996	977

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

Client Name: Elaine Tech Services
Client Acct: 1821
NET Job No: 96.00862

Date: 03/14/1996
ELAP Cert: 1386
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Ref: Shell 1784 150th Ave., San Leandro, CA/960306-K2

SAMPLE DESCRIPTION: DUP
NET SAMPLE NUMBER: 261745

DATE TAKEN: 03/06/1996
TIME TAKEN:

Parameter	Results	Reporting		Units	Method	Date	Date	Batch No.
		Flags	Limit			Extracted	Analyzed	
5030/8015-M/8020 (Shell)								
DILUTION FACTOR*	1,000						03/12/1996	3586
Purgeable TPH	130,000		50,000	ug/L	5030/M8015		03/12/1996	3586
Carbon Range: C6 to C12	--						03/12/1996	3586
8020 (GC, Liquid)								
Benzene	29,000		500	ug/L	8020		03/12/1996	3586
Toluene	15,000		500	ug/L	8020		03/12/1996	3586
Ethylbenzene	4,000		500	ug/L	8020		03/12/1996	3586
Xylenes (Total)	17,000		500	ug/L	8020		03/12/1996	3586
SURROGATE RESULTS								
Bromofluorobenzene (SURR)	98			% Rec.	8020		03/12/1996	3586

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

Ref: Shell 1784 150th Ave., San Leandro, CA/960306-K2

SAMPLE DESCRIPTION: DUP
 NET SAMPLE NUMBER: 261745

DATE TAKEN: 03/06/1996
 TIME TAKEN:

Parameter	Results	Flags	Reporting		Method	Date	Date	Batch
			Limit	Units		Extracted	Analyzed	
8010 (GC,Liquid)								
DILUTION FACTOR*	50						03/11/1996	977
Bromodichloromethane	ND		20	ug/L	8010		03/11/1996	977
Bromoform	ND		20	ug/L	8010		03/11/1996	977
Bromomethane	ND		20	ug/L	8010		03/11/1996	977
Carbon tetrachloride	ND		20	ug/L	8010		03/11/1996	977
Chlorobenzene	ND		20	ug/L	8010		03/11/1996	977
Chloroethane	ND		20	ug/L	8010		03/11/1996	977
2-Chloroethylvinyl ether	ND		50	ug/L	8010		03/11/1996	977
Chloroform	ND		20	ug/L	8010		03/11/1996	977
Chloromethane	ND		20	ug/L	8010		03/11/1996	977
Dibromochloromethane	ND		20	ug/L	8010		03/11/1996	977
1,2-Dichlorobenzene	ND		20	ug/L	8010		03/11/1996	977
1,3-Dichlorobenzene	ND		20	ug/L	8010		03/11/1996	977
1,4-Dichlorobenzene	ND		20	ug/L	8010		03/11/1996	977
Dichlorodifluoromethane	ND		20	ug/L	8010		03/11/1996	977
1,1-Dichloroethane	ND		20	ug/L	8010		03/11/1996	977
1,2-Dichloroethane	ND		20	ug/L	8010		03/11/1996	977
1,1-Dichloroethene	ND		20	ug/L	8010		03/11/1996	977
cis-1,2-Dichloroethene	ND		20	ug/L	8010		03/11/1996	977
trans-1,2-Dichloroethene	ND		20	ug/L	8010		03/11/1996	977
1,2-Dichloropropane	ND		20	ug/L	8010		03/11/1996	977
cis-1,3-Dichloropropene	ND		20	ug/L	8010		03/11/1996	977
trans-1,3-Dichloropropene	ND		20	ug/L	8010		03/11/1996	977
Freon 113	ND		50	ug/L	8010		03/11/1996	977
Methylene chloride	ND		500	ug/L	8010		03/11/1996	977
1,1,2,2-Tetrachloroethane	ND		20	ug/L	8010		03/11/1996	977
Tetrachloroethene	ND		20	ug/L	8010		03/11/1996	977
1,1,1-Trichloroethane	ND		20	ug/L	8010		03/11/1996	977
1,1,2-Trichloroethane	ND		50	ug/L	8010		03/11/1996	977
Trichloroethene	ND		20	ug/L	8010		03/11/1996	977
Trichlorofluoromethane	ND		20	ug/L	8010		03/11/1996	977
Vinyl chloride	ND		20	ug/L	8010		03/11/1996	977
SURROGATE RESULTS	--						03/11/1996	977
1,4-Difluorobenzene (SURR)	100			‡ Rec.			03/11/1996	977
1,4-Dichlorobutane (SURR)	82			‡ Rec.			03/11/1996	977

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: 96.00862

Date: 03/14/1996
ELAP Cert: 1386
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Ref: Shell 1784 150th Ave., San Leandro, CA/960306-K2

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV	CCV	Flags	Units	Date Analyzed	Analyst Initials	Run Batch Number
	Standard % Recovery	Standard Amount Found Expected					
5030/8015-M/8020 (Shell)							
Purgeable TPH	98.0	0.49	0.50	mg/L	03/12/1996	dld	3586
Benzene	97.4	4.87	5.00	ug/L	03/12/1996	dld	3586
Toluene	91.0	4.55	5.00	ug/L	03/12/1996	dld	3586
Ethylbenzene	96.4	4.82	5.00	ug/L	03/12/1996	dld	3586
Xylenes (Total)	98.0	14.70	15.0	ug/L	03/12/1996	dld	3586
Bromofluorobenzene (SURR)	94.0	94	100	% Rec.	03/12/1996	dld	3586

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

Ref: Shell 1784 150th Ave., San Leandro, CA/960306-K2

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV	CCV	CCV	Flags	Units	Date Analyzed	Analyst Initials	Run Batch Number
	Standard % Recovery	Standard Amount Found	Standard Amount Expected					
8010 (GC,Liquid)								
Bromodichloromethane	90.5	18.1	20.0		ug/L	03/11/1996	jde	977
Bromoform	102.5	20.5	20.0		ug/L	03/11/1996	jde	977
Bromomethane	98.0	19.6	20.0		ug/L	03/11/1996	jde	977
Carbon tetrachloride	103.0	20.6	20.0		ug/L	03/11/1996	jde	977
Chlorobenzene	103.0	20.6	20.0		ug/L	03/11/1996	jde	977
Chloroethane	87.0	17.4	20.0		ug/L	03/11/1996	jde	977
2-Chloroethylvinyl ether	104.0	20.8	20.0		ug/L	03/11/1996	jde	977
Chloroform	97.0	19.4	20.0		ug/L	03/11/1996	jde	977
Chloromethane	99.5	19.9	20.0		ug/L	03/11/1996	jde	977
Dibromochloromethane	106.0	21.2	20.0		ug/L	03/11/1996	jde	977
1,2-Dichlorobenzene	100.0	20.0	20.0		ug/L	03/11/1996	jde	977
1,3-Dichlorobenzene	102.0	20.4	20.0		ug/L	03/11/1996	jde	977
1,4-Dichlorobenzene	99.0	19.8	20.0		ug/L	03/11/1996	jde	977
Dichlorodifluoromethane	97.5	19.5	20.0		ug/L	03/11/1996	jde	977
1,1-Dichloroethane	97.0	19.4	20.0		ug/L	03/11/1996	jde	977
1,2-Dichloroethane	96.0	19.2	20.0		ug/L	03/11/1996	jde	977
1,1-Dichloroethene	99.5	19.9	20.0		ug/L	03/11/1996	jde	977
cis-1,2-Dichloroethene	99.0	19.8	20.0		ug/L	03/11/1996	jde	977
trans-1,2-Dichloroethene	97.0	19.4	20.0		ug/L	03/11/1996	jde	977
1,2-Dichloropropane	100.5	20.1	20.0		ug/L	03/11/1996	jde	977
cis-1,3-Dichloropropene	104.5	20.9	20.0		ug/L	03/11/1996	jde	977
trans-1,3-Dichloropropene	108.0	21.6	20.0		ug/L	03/11/1996	jde	977
Freon 113	92.0	18.4	20.0		ug/L	03/11/1996	jde	977
Methylene chloride	96.0	19.2	20.0		ug/L	03/11/1996	jde	977
1,1,2,2-Tetrachloroethane	98.5	19.7	20.0		ug/L	03/11/1996	jde	977
Tetrachloroethene	98.5	19.7	20.0		ug/L	03/11/1996	jde	977
1,1,1-Trichloroethane	99.0	19.8	20.0		ug/L	03/11/1996	jde	977
1,1,2-Trichloroethane	98.5	19.7	20.0		ug/L	03/11/1996	jde	977
Trichloroethene	86.0	17.2	20.0		ug/L	03/11/1996	jde	977
Trichlorofluoromethane	92.0	18.4	20.0		ug/L	03/11/1996	jde	977
Vinyl chloride	89.5	17.9	20.0		ug/L	03/11/1996	jde	977
1,4-Difluorobenzene (SURRE)	102.0	102	100		% Rec.	03/11/1996	jde	977
1,4-Dichlorobutane (SURRE)	101.0	101	100		% Rec.	03/11/1996	jde	977

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

Client Name: Elaine Tech Services
 Client Acct: 1821
 NET Job No: 96.00862

Date: 03/14/1996
 ELAP Cert: 1386
 Page: 9

Ref: Shell 1784 150th Ave., San Leandro, CA/960306-K2

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV	CCV	CCV	Flags	Units	Date Analyzed	Analyst Initials	Run Batch Number
	Standard % Recovery	Standard Amount Found	Standard Amount Expected					
8010 (GC,Liquid)								
Bromodichloromethane	94.5	18.9	20.0		ug/L	03/12/1996	jde	977
Bromoform	96.5	19.3	20.0		ug/L	03/12/1996	jde	977
Bromomethane	91.0	18.2	20.0		ug/L	03/12/1996	jde	977
Carbon tetrachloride	90.0	18.0	20.0		ug/L	03/12/1996	jde	977
Chlorobenzene	91.0	18.2	20.0		ug/L	03/12/1996	jde	977
Chloroethane	82.0	16.4	20.0		ug/L	03/12/1996	jde	977
2-Chloroethylvinyl ether	101.5	20.3	20.0		ug/L	03/12/1996	jde	977
Chloroform	89.0	17.8	20.0		ug/L	03/12/1996	jde	977
Chloromethane	94.0	18.8	20.0		ug/L	03/12/1996	jde	977
Dibromochloromethane	101.0	20.2	20.0		ug/L	03/12/1996	jde	977
1,2-Dichlorobenzene	86.0	17.2	20.0		ug/L	03/12/1996	jde	977
1,3-Dichlorobenzene	93.5	18.7	20.0		ug/L	03/12/1996	jde	977
1,4-Dichlorobenzene	87.0	17.4	20.0		ug/L	03/12/1996	jde	977
Dichlorodifluoromethane	95.0	19.0	20.0		ug/L	03/12/1996	jde	977
1,1-Dichloroethane	87.0	17.4	20.0		ug/L	03/12/1996	jde	977
1,2-Dichloroethane	96.0	19.2	20.0		ug/L	03/12/1996	jde	977
1,1-Dichloroethene	89.5	17.9	20.0		ug/L	03/12/1996	jde	977
cis-1,2-Dichloroethene	91.0	18.2	20.0		ug/L	03/12/1996	jde	977
trans-1,2-Dichloroethene	87.0	17.4	20.0		ug/L	03/12/1996	jde	977
1,2-Dichloropropane	93.5	18.7	20.0		ug/L	03/12/1996	jde	977
cis-1,3-Dichloropropene	90.0	18.0	20.0		ug/L	03/12/1996	jde	977
trans-1,3-Dichloropropene	94.5	18.9	20.0		ug/L	03/12/1996	jde	977
Freon 113	85.5	17.1	20.0		ug/L	03/12/1996	jde	977
Methylene chloride	86.0	17.2	20.0		ug/L	03/12/1996	jde	977
1,1,2,2-Tetrachloroethane	91.5	18.3	20.0		ug/L	03/12/1996	jde	977
Tetrachloroethene	91.5	18.3	20.0		ug/L	03/12/1996	jde	977
1,1,1-Trichloroethane	86.5	17.3	20.0		ug/L	03/12/1996	jde	977
1,1,2-Trichloroethane	88.5	17.7	20.0		ug/L	03/12/1996	jde	977
Trichloroethene	77.0	15.4	20.0		ug/L	03/12/1996	jde	977
Trichlorofluoromethane	88.0	17.6	20.0		ug/L	03/12/1996	jde	977
Vinyl chloride	85.5	17.1	20.0		ug/L	03/12/1996	jde	977
1,4-Difluorobenzene (SURR)	90.0	90	100		% Rec.	03/12/1996	jde	977
1,4-Dichlorobutane (SURR)	95.0	95	100		% Rec.	03/12/1996	jde	977

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

Ref: Shell 1784 150th Ave., San Leandro, CA/960306-K2

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV	CCV	CCV	Flags	Units	Date Analyzed	Analyst Initials	Run Batch Number
	Standard % Recovery	Standard Amount Found	Standard Amount Expected					
8010 (GC, Liquid)								
Bromodichloromethane	98.0	19.6	20.0		ug/L	03/12/1996	jde	977
Bromoform	94.5	18.9	20.0		ug/L	03/12/1996	jde	977
Bromomethane	101.0	20.2	20.0		ug/L	03/12/1996	jde	977
Carbon tetrachloride	93.5	18.7	20.0		ug/L	03/12/1996	jde	977
Chlorobenzene	91.0	18.2	20.0		ug/L	03/12/1996	jde	977
Chloroethane	87.0	17.4	20.0		ug/L	03/12/1996	jde	977
2-Chloroethylvinyl ether	100.5	20.1	20.0		ug/L	03/12/1996	jde	977
Chloroform	91.5	18.3	20.0		ug/L	03/12/1996	jde	977
Chloromethane	102.0	20.4	20.0		ug/L	03/12/1996	jde	977
Dibromochloromethane	100.5	20.1	20.0		ug/L	03/12/1996	jde	977
1,2-Dichlorobenzene	86.5	17.3	20.0		ug/L	03/12/1996	jde	977
1,3-Dichlorobenzene	85.5	17.1	20.0		ug/L	03/12/1996	jde	977
1,4-Dichlorobenzene	84.0	16.8	20.0		ug/L	03/12/1996	jde	977
Dichlorodifluoromethane	99.5	19.9	20.0		ug/L	03/12/1996	jde	977
1,1-Dichloroethane	92.5	18.5	20.0		ug/L	03/12/1996	jde	977
1,2-Dichloroethane	101.0	20.2	20.0		ug/L	03/12/1996	jde	977
1,1-Dichloroethene	97.5	19.5	20.0		ug/L	03/12/1996	jde	977
cis-1,2-Dichloroethene	95.0	19.0	20.0		ug/L	03/12/1996	jde	977
trans-1,2-Dichloroethene	97.0	19.4	20.0		ug/L	03/12/1996	jde	977
1,2-Dichloropropane	96.0	19.2	20.0		ug/L	03/12/1996	jde	977
cis-1,3-Dichloropropene	92.5	18.5	20.0		ug/L	03/12/1996	jde	977
trans-1,3-Dichloropropene	94.5	18.9	20.0		ug/L	03/12/1996	jde	977
Freon 113	96.0	19.2	20.0		ug/L	03/12/1996	jde	977
Methylene chloride	92.0	18.4	20.0		ug/L	03/12/1996	jde	977
1,1,2,2-Tetrachloroethane	85.5	17.1	20.0		ug/L	03/12/1996	jde	977
Tetrachloroethene	91.5	18.3	20.0		ug/L	03/12/1996	jde	977
1,1,1-Trichloroethane	90.0	18.0	20.0		ug/L	03/12/1996	jde	977
1,1,2-Trichloroethane	90.0	18.0	20.0		ug/L	03/12/1996	jde	977
Trichloroethene	80.5	16.1	20.0		ug/L	03/12/1996	jde	977
Trichlorofluoromethane	94.5	18.9	20.0		ug/L	03/12/1996	jde	977
Vinyl chloride	91.5	18.3	20.0		ug/L	03/12/1996	jde	977
1,4-Difluorobenzene (SURR)	99.0	99	100		‡ Rec.	03/12/1996	jde	977
1,4-Dichlorobutane (SURR)	93.0	93	100		‡ Rec.	03/12/1996	jde	977

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

Client Name: Blaine Tech Services

Date: 03/14/1996

Client Acct: 1821

ELAP Cert: 1386

NET Job No: 96.00862

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Ref: Shell 1784 150th Ave., San Leandro, CA/960306-K2

METHOD BLANK REPORT

Parameter	Method	Reporting	Flags	Units	Date	Analyst	Run
	Blank						
	Found	Limit			Analyzed	Initials	Number
5030/8015-M/8020 (Shell)							
Purgeable TPH	ND	0.05		mg/L	03/12/1996	dld	3586
Benzene	ND	0.5		ug/L	03/12/1996	dld	3586
Toluene	ND	0.5		ug/L	03/12/1996	dld	3586
Ethylbenzene	ND	0.5		ug/L	03/12/1996	dld	3586
Xylenes (Total)	ND	0.5		ug/L	03/12/1996	dld	3586
Bromofluorobenzene (SURR)	98			% Rec.	03/12/1996	dld	3586

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: 96.00862

Date: 03/14/1996
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Ref: Shell 1784 150th Ave., San Leandro, CA/960306-K2

METHOD BLANK REPORT

Parameter	Method Blank Amount Found	Reporting Limit	Flags	Units	Date Analyzed	Analyst Initials	Run Batch Number
8010 (GC,Liquid)							
Bromodichloromethane	ND	0.4		ug/L	03/11/1996	jde	977
Bromoform	ND	0.4		ug/L	03/11/1996	jde	977
Bromomethane	ND	0.4		ug/L	03/11/1996	jde	977
Carbon tetrachloride	ND	0.4		ug/L	03/11/1996	jde	977
Chlorobenzene	ND	0.4		ug/L	03/11/1996	jde	977
Chloroethane	ND	0.4		ug/L	03/11/1996	jde	977
2-Chloroethylvinyl ether	ND	1.0		ug/L	03/11/1996	jde	977
Chloroform	ND	0.4		ug/L	03/11/1996	jde	977
Chloromethane	ND	0.4		ug/L	03/11/1996	jde	977
Dibromochloromethane	ND	0.4		ug/L	03/11/1996	jde	977
1,2-Dichlorobenzene	ND	0.4		ug/L	03/11/1996	jde	977
1,3-Dichlorobenzene	ND	0.4		ug/L	03/11/1996	jde	977
1,4-Dichlorobenzene	ND	0.4		ug/L	03/11/1996	jde	977
Dichlorodifluoromethane	ND	0.4		ug/L	03/11/1996	jde	977
1,1-Dichloroethane	ND	0.4		ug/L	03/11/1996	jde	977
1,2-Dichloroethane	ND	0.4		ug/L	03/11/1996	jde	977
1,1-Dichloroethene	ND	0.4		ug/L	03/11/1996	jde	977
cis-1,2-Dichloroethene	ND	0.5		ug/L	03/11/1996	jde	977
trans-1,2-Dichloroethene	ND	0.4		ug/L	03/11/1996	jde	977
1,2-Dichloropropane	ND	0.4		ug/L	03/11/1996	jde	977
cis-1,3-Dichloropropene	ND	0.4		ug/L	03/11/1996	jde	977
trans-1,3-Dichloropropene	ND	0.4		ug/L	03/11/1996	jde	977
Freon 113	ND	1.0		ug/L	03/11/1996	jde	977
Methylene chloride	ND	10		ug/L	03/11/1996	jde	977
1,1,2,2-Tetrachloroethane	ND	0.4		ug/L	03/11/1996	jde	977
Tetrachloroethene	ND	0.4		ug/L	03/11/1996	jde	977
1,1,1-Trichloroethane	ND	0.4		ug/L	03/11/1996	jde	977
1,1,2-Trichloroethane	ND	0.4		ug/L	03/11/1996	jde	977
Trichloroethene	ND	0.4		ug/L	03/11/1996	jde	977
Trichlorofluoromethane	ND	0.4		ug/L	03/11/1996	jde	977
Vinyl chloride	ND	0.4		ug/L	03/11/1996	jde	977
1,4-Difluorobenzene (SURR)	98			† Rec.	03/11/1996	jde	977
1,4-Dichlorobutane (SURR)	79			† Rec.	03/11/1996	jde	977

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 1784 150th Ave., San Leandro, CA/960306-K2

METHOD BLANK REPORT

Parameter	Method	Reporting	Flags	Units	Date	Analyst	Run
	Blank						
	Found						Number
8010 (GC,Liquid)							
Bromodichloromethane	ND	0.4		ug/L	03/12/1996	jde	977
Bromoform	ND	0.4		ug/L	03/12/1996	jde	977
Bromomethane	ND	0.4		ug/L	03/12/1996	jde	977
Carbon tetrachloride	ND	0.4		ug/L	03/12/1996	jde	977
Chlorobenzene	ND	0.4		ug/L	03/12/1996	jde	977
Chloroethane	ND	0.4		ug/L	03/12/1996	jde	977
2-Chloroethylvinyl ether	ND	1.0		ug/L	03/12/1996	jde	977
Chloroform	ND	0.4		ug/L	03/12/1996	jde	977
Chloromethane	ND	0.4		ug/L	03/12/1996	jde	977
Dibromochloromethane	ND	0.4		ug/L	03/12/1996	jde	977
1,2-Dichlorobenzene	ND	0.4		ug/L	03/12/1996	jde	977
1,3-Dichlorobenzene	ND	0.4		ug/L	03/12/1996	jde	977
1,4-Dichlorobenzene	ND	0.4		ug/L	03/12/1996	jde	977
Dichlorodifluoromethane	ND	0.4		ug/L	03/12/1996	jde	977
1,1-Dichloroethane	ND	0.4		ug/L	03/12/1996	jde	977
1,2-Dichloroethane	ND	0.4		ug/L	03/12/1996	jde	977
1,1-Dichloroethene	ND	0.4		ug/L	03/12/1996	jde	977
cis-1,2-Dichloroethene	ND	0.5		ug/L	03/12/1996	jde	977
trans-1,2-Dichloroethene	ND	0.4		ug/L	03/12/1996	jde	977
1,2-Dichloropropane	ND	0.4		ug/L	03/12/1996	jde	977
cis-1,3-Dichloropropene	ND	0.4		ug/L	03/12/1996	jde	977
trans-1,3-Dichloropropene	ND	0.4		ug/L	03/12/1996	jde	977
Freon 113	ND	1.0		ug/L	03/12/1996	jde	977
Methylene chloride	ND	10		ug/L	03/12/1996	jde	977
1,1,2,2-Tetrachloroethane	ND	0.4		ug/L	03/12/1996	jde	977
Tetrachloroethene	ND	0.4		ug/L	03/12/1996	jde	977
1,1,1-Trichloroethane	ND	0.4		ug/L	03/12/1996	jde	977
1,1,2-Trichloroethane	ND	0.4		ug/L	03/12/1996	jde	977
Trichloroethene	ND	0.4		ug/L	03/12/1996	jde	977
Trichlorofluoromethane	ND	0.4		ug/L	03/12/1996	jde	977
Vinyl chloride	ND	0.4		ug/L	03/12/1996	jde	977
1,4-Difluorobenzene (SURR)	90			% Rec.	03/12/1996	jde	977
1,4-Dichlorobutane (SURR)	79			% Rec.	03/12/1996	jde	977

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

Ref: Shell 1784 150th Ave., San Leandro, CA/960306-K2

METHOD BLANK REPORT

Parameter	Method	Reporting	Flags	Units	Date	Analyst	Run
	Blank						
	Found						Number
8010 (GC,Liquid)							
Bromodichloromethane	ND	0.4		ug/L	03/12/1996	jde	977
Bromoform	ND	0.4		ug/L	03/12/1996	jde	977
Bromomethane	ND	0.4		ug/L	03/12/1996	jde	977
Carbon tetrachloride	ND	0.4		ug/L	03/12/1996	jde	977
Chlorobenzene	ND	0.4		ug/L	03/12/1996	jde	977
Chloroethane	ND	0.4		ug/L	03/12/1996	jde	977
2-Chloroethylvinyl ether	ND	1.0		ug/L	03/12/1996	jde	977
Chloroform	ND	0.4		ug/L	03/12/1996	jde	977
Chloromethane	ND	0.4		ug/L	03/12/1996	jde	977
Dibromochloromethane	ND	0.4		ug/L	03/12/1996	jde	977
1,2-Dichlorobenzene	ND	0.4		ug/L	03/12/1996	jde	977
1,3-Dichlorobenzene	ND	0.4		ug/L	03/12/1996	jde	977
1,4-Dichlorobenzene	ND	0.4		ug/L	03/12/1996	jde	977
Dichlorodifluoromethane	ND	0.4		ug/L	03/12/1996	jde	977
1,1-Dichloroethane	ND	0.4		ug/L	03/12/1996	jde	977
1,2-Dichloroethane	ND	0.4		ug/L	03/12/1996	jde	977
1,1-Dichloroethene	ND	0.4		ug/L	03/12/1996	jde	977
cis-1,2-Dichloroethene	ND	0.5		ug/L	03/12/1996	jde	977
trans-1,2-Dichloroethene	ND	0.4		ug/L	03/12/1996	jde	977
1,2-Dichloropropane	ND	0.4		ug/L	03/12/1996	jde	977
cis-1,3-Dichloropropene	ND	0.4		ug/L	03/12/1996	jde	977
trans-1,3-Dichloropropene	ND	0.4		ug/L	03/12/1996	jde	977
Freon 113	ND	1.0		ug/L	03/12/1996	jde	977
Methylene chloride	ND	10		ug/L	03/12/1996	jde	977
1,1,2,2-Tetrachloroethane	ND	0.4		ug/L	03/12/1996	jde	977
Tetrachloroethene	ND	0.4		ug/L	03/12/1996	jde	977
1,1,1-Trichloroethane	ND	0.4		ug/L	03/12/1996	jde	977
1,1,2-Trichloroethane	ND	0.4		ug/L	03/12/1996	jde	977
Trichloroethene	ND	0.4		ug/L	03/12/1996	jde	977
Trichlorofluoromethane	ND	0.4		ug/L	03/12/1996	jde	977
Vinyl chloride	ND	0.4		ug/L	03/12/1996	jde	977
1,4-Difluorobenzene (SURR)	94			% Rec.	03/12/1996	jde	977
1,4-Dichlorobutane (SURR)	80			% Rec.	03/12/1996	jde	977

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

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike				Sample Conc.	Matrix Spike Dup.			Flags	Units	Date Analyzed	Run Batch	Sample Spiked
	Matrix Spike % Rec.	Matrix Spike Dup % Rec.	RPD	Spike Amount		Matrix Spike Conc.	Matrix Spike Dup Conc.	Matrix Spike Dup Conc.					
5030/8015-M/8020 (Shell)													261744
Purgeable TPH	102.0	102.0	0.0	0.50	ND	0.51	0.51		mg/L	03/12/1996	3586		261744
Benzene	103.0	103.4	0.4	6.72	ND	6.92	6.95		ug/L	03/12/1996	3586		261744
Toluene	102.1	103.3	1.2	25.33	ND	25.86	26.16		ug/L	03/12/1996	3586		261744
Bromofluorobenzene (SURR)	100.0	106.0	5.8	100	83	100	106		% Rec.	03/12/1996	3586		261744

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: 96.00862

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Ref: Shell 1784 150th Ave., San Leandro, CA/960306-K2

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike		RPD	Spike Amount	Sample Conc.	Matrix Spike		Flags	Units	Date Analyzed	Run Batch	Sample Spiked
	% Rec.	% Rec.				Conc.	Conc.					
8010 (GC,Liquid)												
Chlorobenzene	92.5	79.0	15.7	20.0	ND	18.5	15.8		ug/L	03/11/1996	977	261744
1,1-Dichloroethene	82.0	78.5	4.4	20.0	ND	16.4	15.7		ug/L	03/11/1996	977	261744
Trichloroethene	78.5	71.5	9.3	20.0	ND	15.7	14.3		ug/L	03/11/1996	977	261744
1,4-Difluorobenzene (SURR)	99.0	95.0	4.1	100	100	99	95		% Rec.	03/11/1996	977	261744
1,4-Dichlorobutane (SURR)	99.0	92.0	7.3	100	80	99	92		% Rec.	03/11/1996	977	261744

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



KEY TO RESULT FLAGS

- * : RPD between sample duplicates exceeds 30%.
- *M : RPD between sample duplicates or MS/MSD exceeds 20%.
- + : Correlation coefficient for the Method of Standard Additions is less than 0.995.
- < : Sample result is less than reported value.
- B-I : Value is between Method Detection Limit and Reporting Limit.
- B-0 : Analyte found in blank and sample.
- C : The result confirmed by secondary column or GC/MS analysis.
- CNA : Cr+6 not analyzed; Total Chromium concentration below Cr+6 regulatory level.
- COMP : Sample composited by equal volume prior to analysis.
- D- : The result has an atypical pattern for Diesel analysis.
- D1 : The result for Diesel is an unknown hydrocarbon which consists of a single peak.
- DH : The result appears to be a heavier hydrocarbon than Diesel.
- DL : The result appears to be a lighter hydrocarbon than Diesel.
- DR : Elevated Reporting Limit due to Matrix.
- DS : Surrogate diluted out of range.
- DX : The result for Diesel is an unknown hydrocarbon which consists of several peaks.
- FA : Compound quantitated at a 2X dilution factor.
- FB : Compound quantitated at a 5X dilution factor.
- FC : Compound quantitated at a 10X dilution factor.
- FD : Compound quantitated at a 20X dilution factor.
- FE : Compound quantitated at a 50X dilution factor.
- FF : Compound quantitated at a 100X dilution factor.
- FG : Compound quantitated at a 200X dilution factor.
- FH : Compound quantitated at a 500X dilution factor.
- FI : Compound quantitated at a 1000X dilution factor.
- FJ : Compound quantitated at a greater than 1000x dilution factor.
- FK : Compound quantitated at a 25X dilution factor.
- FL : Compound quantitated at a 250X dilution factor.
- G- : The result has an atypical pattern for Gasoline.
- G1 : The result for Gasoline is an unknown hydrocarbon which consists of a single peak.
- GH : The result appears to be a heavier hydrocarbon than Gasoline.
- GL : The result appears to be a lighter hydrocarbon than Gasoline.
- GX : The result for Gasoline is an unknown hydrocarbon which consists of several peaks.
- HX : Peaks detected within the quantitation range do not match standard used.
- J : Value is estimated.
- MI : Matrix Interference Suspected.
- MSA : Value determined by Method of Standard Additions.
- MSA* : Value obtained by Method of Standard Additions; Correlation coefficient is <0.995.
- NI1 : Sample spikes outside of QC limits; matrix interference suspected.
- NI2 : Sample concentration is greater than 4X the spiked value; the spiked value is considered insignificant.
- NI3 : Matrix Spike values exceed established QC limits, post digestion spike is in control.
- P7 : pH of sample > 2; sample analyzed past 7 days.
- RSC : Refer to subcontract laboratory report for QC data.
- S2 : Matrix interference confirmed by repeat analysis.
- SCN : Thiocyanate not analyzed separately; total value is below the Reporting Limit for Free Cyanide.
- UMDL : Undetected at the Method Detection Limit.

KEY TO ABBREVIATIONS

ICVS	: Initial Calibration Verification Standard (External Standard).
mean	: Average; sum of measurements divided by number of measurements.
mg/Kg	: Concentration in units of milligrams of analyte per kilogram of sample.
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.
NTU	: Nephelometric turbidity units.
RPD	: Relative percent difference.
SNA	: Standard not available.
ug/Kg	: Concentration in units of micrograms of analyte per kilogram of sample.
ug/L	: Concentration in units of micrograms of analyte per liter of sample.
umhos/cm	: Micromhos per centimeter.



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: 880305-K2

Date: 3/8/96

Page 1 of 1

Site Address: 1784 150th Avenue, San Leandro

WIC#: 204-6852-1404

Shell Engineer: R. Jeff Granberry
~~Don Kirk~~
Phone No.: (510) 675-6188
Fax #: 675-6160

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

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

Comments:

Sampled by: KCB
Printed Name: Keith Brown

Analysis Required

LAB: Nor

CHECK ONE (1) BOX ONLY	CT/DI	TURN AROUND TIME
Quarterly Monitoring <input checked="" type="checkbox"/> 6441		24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/> 6441		48 hours <input type="checkbox"/>
Soil Clarity/Disposal <input type="checkbox"/> 6442		15 days <input checked="" type="checkbox"/> (Normal)
Water Clarity/Disposal <input type="checkbox"/> 6443		Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/> 6462		NOTE: Notify Lab as soon as possible of 24/48 hrs. TAT.
Water Rem. or Sys. O & M <input type="checkbox"/> 6463		
Other <input type="checkbox"/>		

Sample ID	Date	Sludge	Soil	Water	Air	No. of conds.	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
<u>new2</u>	<u>3/6</u>			<u>W</u>		<u>6</u>						<input checked="" type="checkbox"/>				
<u>new4</u>	<u>↓</u>			<u>↓</u>		<u>↓</u>						<input checked="" type="checkbox"/>				
<u>DUP</u>	<u>↓</u>			<u>↓</u>		<u>↓</u>						<input checked="" type="checkbox"/>				

CUSTODY SEALED
Date: 3/7/96 Time: 11:00 Initials: PS
SEAL INTACT?
Yes No Initials: GA

Relinquished By (signature): <u>R. Brown</u>	Printed Name: <u>Keith Brown</u>	Date: <u>3/7/96</u>	Time: <u>11:00</u>	Received (signature): <u>R. Smart</u>	Printed Name: <u>R. Smart</u>	Date: <u>3/7/96</u>	Time: <u>11:44</u>
Relinquished By (signature): <u>R. Smart</u>	Printed Name: <u>R. Smart</u>	Date: <u>3/7/96</u>	Time: <u>16:00</u>	Received (signature): <u>Jim Keller</u>	Printed Name: <u>JAM GREEN</u>	Date: <u>3/8/96</u>	Time: <u>08:00</u>
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

VIA: NCS

CLIENT: Blaine Tech JOB #: _____ LOG #: 0207
Project ID: 910300-R2
Samples Received On: 3/8/96 Checked in on: 3/8/96

- 1) Custody Seals: N/A Present Absent Broken
- 2) Chain of Custody Present Absent # (s): _____
Forms: Complete Incomplete _____

3) Type of packing material used: ice

4) Temperature(s) _____ ° C Thermometer #(s) _____

5) Sample Container(s) Intact Broken _____

6) Container Label(s) Match COC Do Not Match _____

7) Sample Volume Sufficient Insufficient _____

8) Preservative(s) Correct Incorrect pH verified Res.Cl chk
(CN & PHLs)

9) Headspace (VOAs) None Present (list ID's / number vials affected)

Sample ID	# of Vials	Sample ID	# of Vials

10) Form Completed By: [Signature] Date: 3/8/96
Attach shipper's packing slip to this form before routing

Problem Resolution:
1) Project Coordinator Verbally Informed on _____
2) Client Informed on _____ By _____

Project Coordinator: _____ Date _____ Resolved: Y N

Comments: _____