



July 24, 1995

Juliet Shin
Alameda County Department of
Environmental Health
1131 Harbor Bay Parkway
Suite 250
Alameda, CA 94502-6577

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FBI - ALAMEDA

Re: **Second Quarter 1995**
Shell Service Station
WIC #204-0072-0502
2160 Otis Drive
Alameda, California
WA Job #81-0429-205

Dear Ms. Shin:

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.

Second Quarter 1995 Activities:

- In April, Weiss Associates (WA) conducted an investigation to determine whether the volatile organic compounds (VOCs) detected in one well are coming from an offsite source.
- A subsurface investigation and case closure report was submitted to Alameda County Department of Environmental Health on May 23, 1995, based on the results from the investigation conducted in April.
- On April 20th, Blaine Tech Services, Inc., (BTS) of San Jose, California measured depths to ground water in all three wells and collected ground water samples for analyses of hydrocarbons and VOCs for all three wells. The BTS reports describing the sampling activities, including the ground water analytic report, are included as Attachment A.

- The analytic results from wells MW-2 and S-1 for the April 20, 1995 sampling were anomalous. BTS resampled the two wells on May 23, 1995. BTS's reports describing these sampling activities, including the ground water analytic report, are included as Attachment A.
- WA compiled the ground water elevation data and the laboratory analytic results (Tables 1, 2 and 3) and prepared a ground water elevation contour map (Figure 2).

Anticipated Third Quarter 1995 Activities:

- WA is waiting for case closure and will not submit a report for the third quarter 1995.

Conclusions and Recommendations

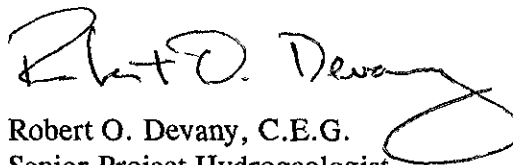
Petroleum hydrocarbons were not detected in well MW-2 this quarter. However, the VOCs tetrachloroethylene at 18 ppb, chloroform at 25 ppb and carbon disulfate at 9.4 ppb were detected in well MW-2 this quarter. These concentrations are slightly higher than those detected in fourth quarter 1994.

Please call if you have any questions.

Sincerely,
Weiss Associates




Grady S. Glasser
Technical Assistant


Robert O. Devany, C.E.G.
Senior Project Hydrogeologist

Attachments: A - BTS Ground Water Monitoring Report

cc: Dan Kirk, Shell Oil Products Company, P.O. Box 4023, Concord, CA 94524
Tom Callaghan, Water Quality Control Board, San Francisco Bay Region, 2101 Webster Street,
Suite 500, Oakland, CA 94612

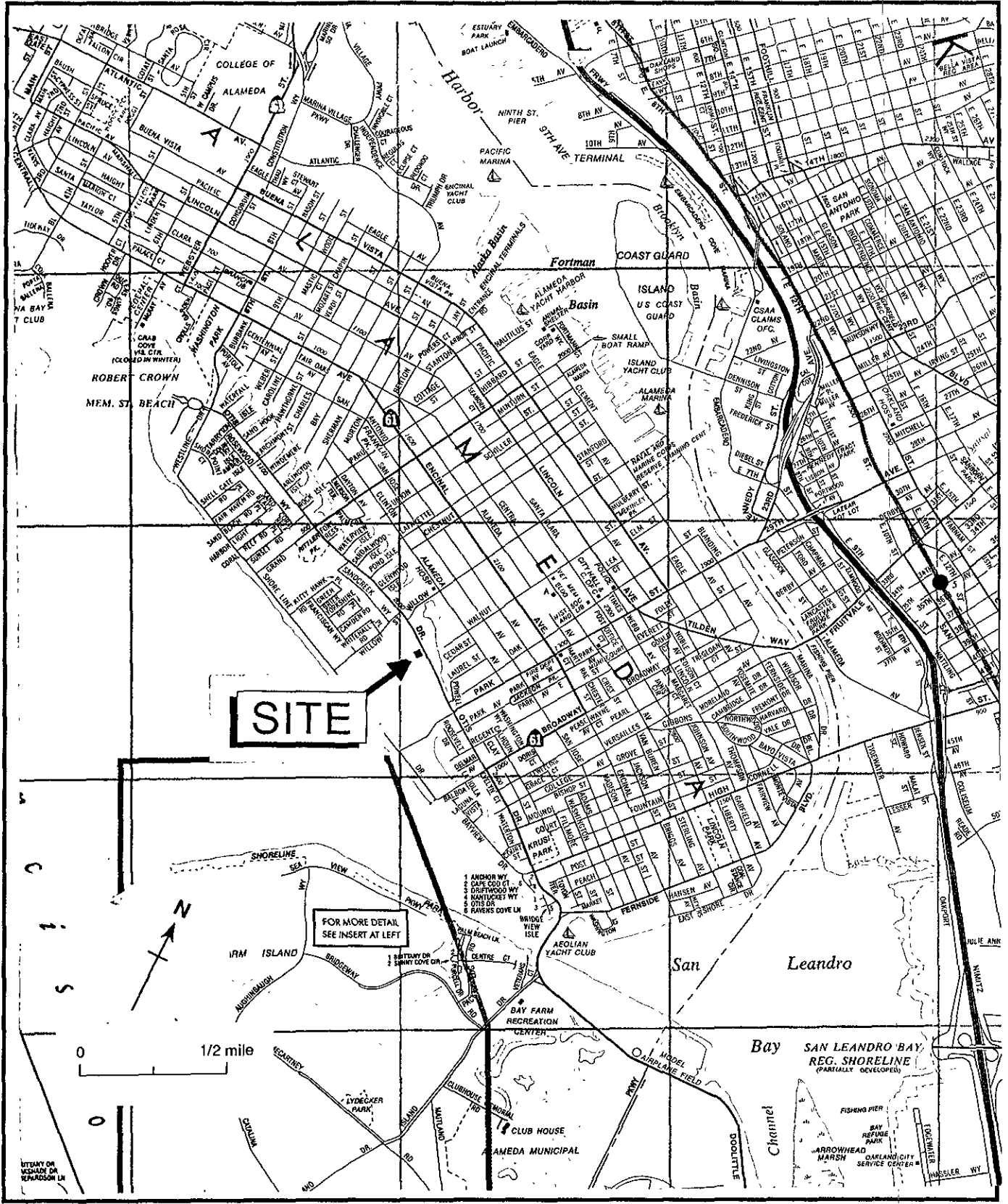


Figure 1. Site Location Map - Shell Service Station, WIC# 204-0072-0502, 2160 Otis Drive, Alameda, CA

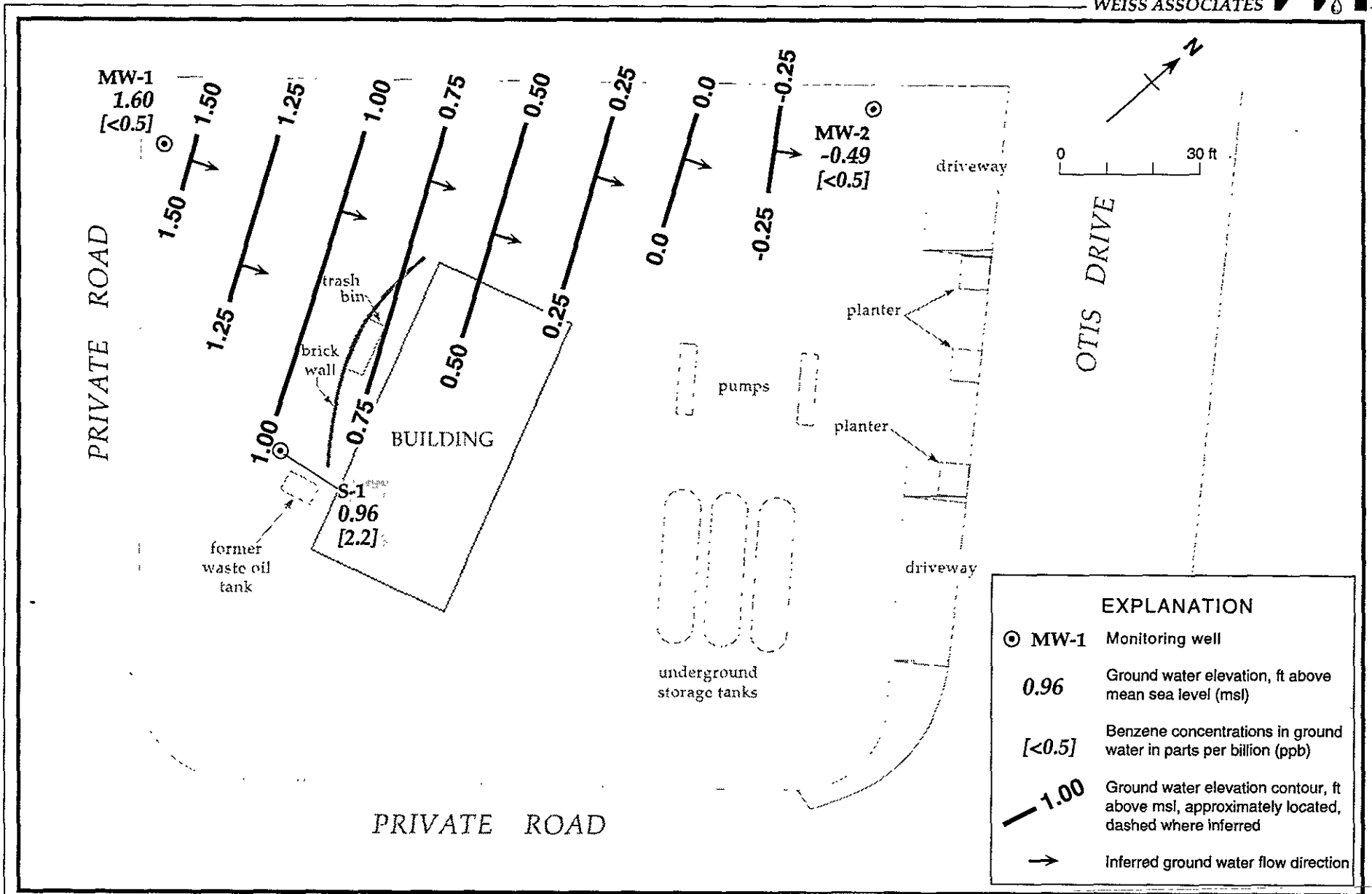


Figure 2. Monitoring Well and Soil Boring Locations, Ground Water Elevation Contours, and Benzene Concentrations in Ground Water
 April 20, 1995 - Shell Service Station WIC #204-0072-0502, 2160 Otis Drive, Alameda, California

Table 1. Ground Water Elevations - Shell Service Station WIC #204-0072-0502, 2160 Otis Drive, Alameda, California

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
MW-1	04/11/90	6.00	5.23	0.77
	07/10/90		5.40	0.60
	10/09/90		5.61	0.39
	01/17/91		5.66	0.34
	04/09/91		4.96	1.04
	07/10/91		5.52	0.48
	10/09/91		5.70	0.30
	01/24/92		5.51	0.49
	04/23/92		5.14	0.86
	07/01/92		4.48	1.52
	10/02/92		5.80	0.20
	01/05/93		5.34	0.66
	04/08/93		4.62	1.38
	07/20/93		5.20	0.80
	10/15/93		4.37	1.63
	01/07/94		5.26	0.74
	04/13/94		5.01	0.99
	07/26/94		5.38	0.62
	08/18/94		5.40	0.60
	11/01/94		5.60	0.40
01/13/95		5.56	0.44	
04/20/95			4.40	1.60
MW-2	04/11/90	3.29	4.51	-1.22
	07/10/90		4.61	-1.32
	10/09/90		4.74	-1.45
	01/17/91		4.73	-1.44
	04/09/91		4.09	-0.80
	07/10/91		4.66	-1.37
	10/09/91		4.81	-1.52
	01/24/92		4.66	-1.37
	04/23/92		4.51	-1.22
	07/01/92		4.57	-1.28
	10/02/92		4.80	-1.51
	01/05/93		4.39	-1.1
	04/08/93		4.15	-0.86
	07/20/93		4.40	-1.11
	10/15/93		5.41	-2.12
	01/07/94		4.34	-1.05
	04/13/94		4.29	-1.00
07/26/94		4.56	-1.27	
11/01/94		4.68	-1.39	

Table 1. Ground Water Elevations - Shell Service Station WIC #204-0072-0502, 2160 Otis Drive, Alameda, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
	01/13/95		3.48	-0.19
	04/20/95		3.78	-0.49
	05/23/95		3.87	-0.58
S-1	09/11/90	5.10	4.29	0.81
	04/11/90		4.00	1.10
	07/10/90		4.25	0.85
	10/09/90		4.46	0.64
	01/17/91		4.53	0.57
	04/09/91		4.20	0.90
	07/10/91		4.42	0.68
	10/09/91		4.87	0.23
	01/24/92		4.90	0.20
	04/23/92		4.66	0.44
	07/01/92		4.85	0.25
	10/02/92		4.80	0.30
	01/05/93		5.38	-0.28
	04/08/93		3.69	1.41
	07/20/93		4.20	0.90
	10/15/93		4.38	0.72
	01/07/94		4.19	0.91
	04/17/94		4.03	1.07
	07/26/94		4.76	0.34
	11/01/94		4.84	0.26
	01/13/95		4.07	1.03
	04/20/95		4.14	0.96
	05/23/95		3.51	1.59

Table 2. Analytic Results for Ground Water - Petroleum Hydrocarbons - Shell Service Station WIC #204-0072-0502, 2160 Otis Drive, Alameda, California

Well ID (Sampling Frequency)	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	POG	parts per billion (µg/L)				TDS
						B	E	T	X	
S-1 (Annually 1st Qtr)	09/04/87		---	---	---	<5	<5	<5	<5	---
	09/11/89 ^a	4.29	<50	<100	<1,000	<0.5	<1	<1	<3	---
	04/11/90	4.00	<50	<50	<10,000	<0.5	<0.5	<0.5	<0.5	---
	07/10/90	4.25	<90	---	<10,000	<0.5	<0.5	<0.5	<0.5	---
	10/09/90	4.46	<50	---	<5,000	<0.5	<0.5	<0.5	<0.5	---
	01/17/91	4.53	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	04/09/91	4.20	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	07/10/91	4.42	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	10/09/91	4.87	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	01/24/92	4.90	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	04/23/92	4.66	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	07/01/92	4.85	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	10/02/92	5.80	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	01/05/93	5.38	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	01/07/94	4.19	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	01/07/94	4.19	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	11/01/94	4.84	<50	---	---	<0.5	<0.5	<0.5	<0.5	560,000
	04/20/95	4.14	<50	---	---	2.2	0.6	2.2	2.5	---
	05/23/95	3.51	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	MW-1 (Annually 1st Qtr)	04/11/90	5.23	<50	<50	<10,000	<0.5	<0.5	<0.5	<0.5
07/10/90		5.40	100	---	<10,000	<0.5	<0.5	<0.5	<0.5	---
10/09/90		5.61	<50	---	<5,000	<0.5	<0.5	<0.5	<0.5	---
01/17/91		5.66	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
04/09/91		4.96	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
07/10/91		5.52	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
10/09/91		5.70	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
01/24/92		5.51	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
04/23/92	5.14	<50	---	---	<0.5	<0.5	<0.5	<0.5	---	

Table 2. Analytic Results for Ground Water - Petroleum Hydrocarbons - Shell Service Station WIC #204-0072-0502, 2160 Otis Drive, Alameda, California (continued)

Well ID (Sampling Frequency)	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	POG	parts per billion (µg/L)				TDS
						B	E	T	X	
	07/01/92	4.48	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	10/02/92	4.80	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	01/05/93	5.34	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	01/05/93 ^{dup}	5.34	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	01/07/94	5.26	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	08/18/94	5.40	<50	---	---	<0.5	<0.5	<0.5	<0.5	6,300,000
	10/11/94	5.60	<50	<50	---	<0.5	<0.5	<0.5	<0.5	6,700,000
	04/20/95	4.40	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
MW-2 (Quarterly)	04/11/90	4.51	200 ^b	220	<10,000	2.7	<0.5	0.5	2.4	---
	07/10/90	4.61	570 ^b	450	<10,000	150	<0.5	0.9	3.1	---
	10/09/90	4.74	190 ^b	51	<5,000	55	<0.5	<0.5	<0.5	---
	01/17/91	4.73	350 ^b	<50	---	51	<0.5	<0.5	<0.5	---
	04/09/91	4.09	---	<50	---	21	<5	<5	<5	---
	07/10/91	4.66	50 ^b	<50	---	8.4	<0.5	<0.5	<0.5	---
	10/09/91	4.81	150	---	---	22	<0.5	<0.5	<0.5	---
	01/24/92	4.66	<50	---	---	4.8	<0.5	<0.5	<0.5	---
	04/23/92	4.51	<50	---	---	2.3	1.5	<0.5	<0.5	---
	07/01/92	4.57	130 ^c	---	---	19	<0.5	<0.5	<0.5	---
	10/02/92	4.80	120 ^c	---	---	7.8	<0.5	<0.5	<0.8	---
	01/05/93	4.39	200 ^c	---	---	9.0	<0.5	0.6	1.8	---
	04/08/93	4.15	170 ^c	---	---	9.6	<0.5	<0.5	1.6	---
	07/20/93	4.40	80 ^d	---	---	16	1.3	1.4	6.1	---
	10/15/93	4.38	400 ^c	---	---	37	0.6	1.1	4.7	---
	01/07/94	4.34	86 ^d	---	<500	12	<0.5	<0.5	1.1	---
	04/13/94	4.29	<50	---	---	14	<0.5	<0.5	<0.5	---
	07/26/94	4.56	290	---	---	51	<0.5	<0.5	<0.5	12,800,000
	11/11/94	4.68	<50	---	---	3.5	<0.5	<0.5	<0.5	20,400,000
	01/13/95	3.48	<50	---	---	<0.5	<0.5	<0.5	<0.5	17,700,000



Table 2. Analytic Results for Ground Water - Petroleum Hydrocarbons - Shell Service Station WIC #204-0072-0502, 2160 Otis Drive, Alameda, California (continued)

Well ID (Sampling Frequency)	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	POG	parts per billion (µg/L)				TDS
						B	E	T	X	
	04/20/95	3.78	<50	---	---	<0.5	<0.5	1.0	3.6	---
	04/20/95 ^{dup}	3.78	<50	---	---	9.9	<0.5	<0.5	<0.5	---
	05/23/95	3.87	<50	---	---	5.8	<0.5	<0.5	<0.5	---
BH-C	12/17/92	5.0	<50	<0.5	---	<0.5	<0.5	<0.5	<0.5	---
BH-D	12/17/92	5.0	<50	<0.5	---	<0.5	<0.5	<0.5	<0.5	---
BH-E	12/17/92	5.5	<50	<0.5	---	<0.5	<0.5	<0.5	<0.5	---
Trip	07/10/90		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
Blank	10/09/90		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	01/17/91		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	04/09/91		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	07/10/91		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	10/09/91		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	01/24/92		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	04/23/92		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	07/01/92		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	10/02/92		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	01/05/93		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	04/08/93		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	07/20/93		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	10/15/93		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	01/07/94		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	04/13/94		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	10/11/94		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	11/01/94		<50	---	---	<0.5	<0.5	<0.5	<0.5	---

Table 2. Analytic Results for Ground Water - Petroleum Hydrocarbons - Shell Service Station WIC #204-0072-0502, 2160 Otis Drive, Alameda, California (continued)

Well ID (Sampling Frequency)	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	POG	B	E	T	X	TDS
			←————— parts per billion (µg/L) —————→							
	01/13/95		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	04/20/95		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	05/23/95		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
DTSC MCLs			NE	NE	NE	1	680	100 ^e	1,750	

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 Methods 503, or EPA method 5520BF
 B = Benzene by EPA Method 8020, or 8240
 E = Ethylbenzene by EPA Method 8020, or 8240
 T = Toluene by EPA Method 8020, or 8240
 X = Xylenes by EPA Method 8020, or 8240
 TDS = Total dissolved solids
 DTSC MCLs = Department of Toxic Substances Control maximum contaminant levels
 <n = Not detected above detection limit of n ppb
 NE = DTSC MCL not established
 BH-C = Grab Ground Water Sample

Notes:

a = 0.090 ppm chromium, 0.090 ppm lead and 0.10 ppm Zn detected; no cadmium detected above detection limit of 0.010 ppm by EPA Method 6010. No semi-volatile organic compounds or PCBs detected by EPA Method 625. DTSC MCLs for Cr = 0.05 ppm; Pb = 0.05 ppm; secondary MCL for Zn = 5 ppm.
 b = Chromatographic pattern not typical for gasoline; the concentration is due mostly to lighter hydrocarbon compounds.
 c = The concentration reported as gasoline is partially due to the presence of discrete peaks not indicative of gasoline.
 d = The concentration reported as gasoline is primarily due to the presence of discrete peaks not indicative of gasoline.
 e = DTSC recommended action level for drinking water; MCL not established

Table 2. Analytic Results for Ground Water - Petroleum Hydrocarbons - Shell Service Station WIC #204-0072-0502, 2160 Otis Drive, Alameda, California

Well ID (Sampling Frequency)	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	POG	parts per billion (µg/L)				TDS
						B	E	T	X	
S-1 (Annually 1st Qtr)	09/04/87		---	---	---	<5	<5	<5	<5	---
	09/11/89 ^a	4.29	<50	<100	<1,000	<0.5	<1	<1	<3	---
	04/11/90	4.00	<50	<50	<10,000	<0.5	<0.5	<0.5	<0.5	---
	07/10/90	4.25	<90	---	<10,000	<0.5	<0.5	<0.5	<0.5	---
	10/09/90	4.46	<50	---	<5,000	<0.5	<0.5	<0.5	<0.5	---
	01/17/91	4.53	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	04/09/91	4.20	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	07/10/91	4.42	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	10/09/91	4.87	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	01/24/92	4.90	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	04/23/92	4.66	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	07/01/92	4.85	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	10/02/92	5.80	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	01/05/93	5.38	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	01/07/94	4.19	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	01/07/94	4.19	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	11/01/94	4.84	<50	---	---	<0.5	<0.5	<0.5	<0.5	560,000
	04/20/95	4.14	<50	---	---	2.2	0.6	2.2	2.5	---
	05/23/95	3.51	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	MW-1 (Annually 1st Qtr)	04/11/90	5.23	<50	<50	<10,000	<0.5	<0.5	<0.5	<0.5
07/10/90		5.40	100	---	<10,000	<0.5	<0.5	<0.5	<0.5	---
10/09/90		5.61	<50	---	<5,000	<0.5	<0.5	<0.5	<0.5	---
01/17/91		5.66	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
04/09/91		4.96	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
07/10/91		5.52	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
10/09/91		5.70	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
01/24/92		5.51	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
04/23/92	5.14	<50	---	---	<0.5	<0.5	<0.5	<0.5	---	

Table 2. Analytic Results for Ground Water - Petroleum Hydrocarbons - Shell Service Station WIC #204-0072-0502, 2160 Otis Drive, Alameda, California (continued)

Well ID (Sampling Frequency)	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	POG	parts per billion (µg/L)				TDS
						B	E	T	X	
	07/01/92	4.48	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	10/02/92	4.80	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	01/05/93	5.34	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	01/05/93 ^{dup}	5.34	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	01/07/94	5.26	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	08/18/94	5.40	<50	---	---	<0.5	<0.5	<0.5	<0.5	6,300,000
	10/11/94	5.60	<50	<50	---	<0.5	<0.5	<0.5	<0.5	6,700,000
	04/20/95	4.40	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
MW-2 (Quarterly)	04/11/90	4.51	200 ^b	220	<10,000	2.7	<0.5	0.5	2.4	---
	07/10/90	4.61	570 ^b	450	<10,000	150	<0.5	0.9	3.1	---
	10/09/90	4.74	190 ^b	51	<5,000	55	<0.5	<0.5	<0.5	---
	01/17/91	4.73	350 ^b	<50	---	51	<0.5	<0.5	<0.5	---
	04/09/91	4.09	---	<50	---	21	<5	<5	<5	---
	07/10/91	4.66	50 ^b	<50	---	8.4	<0.5	<0.5	<0.5	---
	10/09/91	4.81	150	---	---	22	<0.5	<0.5	<0.5	---
	01/24/92	4.66	<50	---	---	4.8	<0.5	<0.5	<0.5	---
	04/23/92	4.51	<50	---	---	2.3	1.5	<0.5	<0.5	---
	07/01/92	4.57	130 ^c	---	---	19	<0.5	<0.5	<0.5	---
	10/02/92	4.80	120 ^c	---	---	7.8	<0.5	<0.5	<0.8	---
	01/05/93	4.39	200 ^c	---	---	9.0	<0.5	0.6	1.8	---
	04/08/93	4.15	170 ^c	---	---	9.6	<0.5	<0.5	1.6	---
	07/20/93	4.40	80 ^d	---	---	16	1.3	1.4	6.1	---
	10/15/93	4.38	400 ^c	---	---	37	0.6	1.1	4.7	---
	01/07/94	4.34	86 ^d	---	<500	12	<0.5	<0.5	1.1	---
	04/13/94	4.29	<50	---	---	14	<0.5	<0.5	<0.5	---
	07/26/94	4.56	290	---	---	51	<0.5	<0.5	<0.5	12,800,000
	11/11/94	4.68	<50	---	---	3.5	<0.5	<0.5	<0.5	20,400,000
	01/13/95	3.48	<50	---	---	<0.5	<0.5	<0.5	<0.5	17,700,000

Table 2. Analytic Results for Ground Water - Petroleum Hydrocarbons - Shell Service Station WIC #204-0072-0502, 2160 Otis Drive, Alameda, California (continued)

Well ID (Sampling Frequency)	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	POG	parts per billion (µg/L)				TDS
						B	E	T	X	
	04/20/95	3.78	<50	---	---	<0.5	<0.5	1.0	3.6	---
	04/20/95 ^{dup}	3.78	<50	---	---	9.9	<0.5	<0.5	<0.5	---
	05/23/95	3.87	<50	---	---	5.8	<0.5	<0.5	<0.5	---
BH-C	12/17/92	5.0	<50	<0.5	---	<0.5	<0.5	<0.5	<0.5	---
BH-D	12/17/92	5.0	<50	<0.5	---	<0.5	<0.5	<0.5	<0.5	---
BH-E	12/17/92	5.5	<50	<0.5	---	<0.5	<0.5	<0.5	<0.5	---
Trip	07/10/90		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
Blank	10/09/90		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	01/17/91		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	04/09/91		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	07/10/91		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	10/09/91		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	01/24/92		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	04/23/92		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	07/01/92		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	10/02/92		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	01/05/93		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	04/08/93		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	07/20/93		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	10/15/93		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	01/07/94		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	04/13/94		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	10/11/94		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	11/01/94		<50	---	---	<0.5	<0.5	<0.5	<0.5	---

Table 2. Analytic Results for Ground Water - Petroleum Hydrocarbons - Shell Service Station WIC #204-0072-0502, 2160 Otis Drive, Alameda, California (continued)

Well ID (Sampling Frequency)	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	POG	parts per billion (µg/L)				TDS
						B	E	T	X	
	04/20/95	3.78	<50	---	---	<0.5	<0.5	1.0	3.6	---
	04/20/95 ^{dup}	3.78	<50	---	---	9.9	<0.5	<0.5	<0.5	---
	05/23/95	3.87	<50	---	---	5.8	<0.5	<0.5	<0.5	---
BH-C	12/17/92	5.0	<50	<0.5	---	<0.5	<0.5	<0.5	<0.5	---
BH-D	12/17/92	5.0	<50	<0.5	---	<0.5	<0.5	<0.5	<0.5	---
BH-E	12/17/92	5.5	<50	<0.5	---	<0.5	<0.5	<0.5	<0.5	---
Trip	07/10/90		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
Blank	10/09/90		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	01/17/91		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	04/09/91		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	07/10/91		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	10/09/91		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	01/24/92		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	04/23/92		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	07/01/92		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	10/02/92		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	01/05/93		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	04/08/93		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	07/20/93		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	10/15/93		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	01/07/94		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	04/13/94		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	10/11/94		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	11/01/94		<50	---	---	<0.5	<0.5	<0.5	<0.5	---

Table 3. Analytic Results for Ground Water - Volatile Organic Compounds - Shell Service Station WIC #204-0072-0502, 2160 Otis Drive, Alameda, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TCE	TCA	PCE	Chloroform	cis-1,2-DCE	trans-1,2-DCE	1,2-DCA	Carbon Disulfate	Vinyl Chloride
	10/92/92	4.80	1.0	<1	<1	<1	61	12	<1	---	<1
	01/05/93	4.39	1.7	<0.5	2.2	<0.5	33	8.7	<0.5	---	.67
	04/08/93	4.15	1.3	<1	<1	<1	38	7.8	<1	---	<1
	07/20/93	4.40	2.4	<1	4.7	2.3	43	10	<0.5	---	<0.5
	10/15/93	4.38	<2.5	<2.5	<2.5	<2.5	110	25	<2.5	---	<2.5
	01/07/94	4.34	3.8	<0.5	14.0	8.9	29	5.4	<0.5	---	<0.5
	04/13/94	4.29	4.3	<1.3	5.7	2.9	76	14	<1.3	---	---
	07/26/94	4.56	4.3	<0.4	3.5	<0.4	57	5.7	<0.4	---	<0.4
	11/11/94	4.68	2.2	<0.4	6.3	5.6	---	2.2	<0.4	---	<0.4
	01/13/95	3.48	<5.0	<5.0	18	25	<5.0 ^c	<5.0	<5.0	9.4	<5.0
	04/20/95	3.78	<5.0	<5.0	<5.0	<5.0	---	<5.0	<5.0	---	<5.0
	04/20/95 ^{dup}	3.78	<5.0	<5.0	<5.0	<5.0	---	<5.0	<5.0	---	<5.0
	05/23/95	3.87	<5.0	<5.0	9.8	7.3	---	<5.0	<5.0	---	<5.0
BH-C	12/17/93	5.0	<2	<2	<2	<2	<2	<2	<2	---	<2
BH-D	12/17/93	5.0	<2	<2	<2	<2	<2	<2	<2	---	<2
BH-E	12/17/93	5.5	<2	<2	<2	<2	<2	<2	<2	---	<2
DTSC MCLs			5	200	5	NE	6	10	0.5	NE	0.5

Table 3. Analytic Results for Ground Water - Volatile Organic Compounds - Shell Service Station WIC #204-0072-0502, 2160 Otis Drive, Alameda, California (continued)

Abbreviations:

TCE = Trichloroethene by EPA Method 601/8010 or 8240
TCA = 1,1,1-Trichloroethane by EPA Method 601/8010 or 8240
PCE = Tetrachloroethene by EPA Method 601/8010 or 8240
cis-1,2-DCE = cis-1,2-Dichloroethene by EPA Method 601/8010 or 8240
trans-1,2-DCE = trans-1,2-Dichloroethene by EPA Method 601/8010 or 8240
--- = Not analyzed
<n = Not detected above detection limit of n ppb
1,2-DCA = 1,2 dichloroethane by EPA Method 601/8010 or 8240
DTCS MCLs = Department of Toxic Substance control maximum contaminant levels
NE = DTSC MCL not established
ND = Analyte not detected, detection limit not known

Notes:

a = 7.0 ppb unknown alcohol and 270 ppb acetone detected
b = 5.0 ppb chlorobenzene detected
c = Data confirmed through lab

Table 2. Analytic Results for Ground Water - Petroleum Hydrocarbons - Shell Service Station WIC #204-0072-0502, 2160 Otis Drive, Alameda, California (continued)

Well ID (Sampling Frequency)	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	POG	B	E	T	X	TDS
			←————— parts per billion (µg/L) —————→							
	01/13/95		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	04/20/95		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	05/23/95		<50	---	---	<0.5	<0.5	<0.5	<0.5	---
DTSC MCLs			NE	NE	NE	1	680	100 ^e	1,750	

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 Methods 503, or EPA method 5520BF
 B = Benzene by EPA Method 8020, or 8240
 E = Ethylbenzene by EPA Method 8020, or 8240
 T = Toluene by EPA Method 8020, or 8240
 X = Xylenes by EPA Method 8020, or 8240
 TDS = Total dissolved solids
 DTSC MCLs = Department of Toxic Substances Control maximum contaminant levels
 <n = Not detected above detection limit of n ppb
 NE = DTSC MCL not established
 BH-C = Grab Ground Water Sample

Notes:

a = 0.090 ppm chromium, 0.090 ppm lead and 0.10 ppm Zn detected; no cadmium detected above detection limit of 0.010 ppm by EPA Method 6010. No semi-volatile organic compounds or PCBs detected by EPA Method 625. DTSC MCLs for Cr = 0.05 ppm; Pb = 0.05 ppm; secondary MCL for Zn = 5 ppm.
 b = Chromatographic pattern not typical for gasoline; the concentration is due mostly to lighter hydrocarbon compounds.
 c = The concentration reported as gasoline is partially due to the presence of discrete peaks not indicative of gasoline.
 d = The concentration reported as gasoline is primarily due to the presence of discrete peaks not indicative of gasoline.
 e = DTSC recommended action level for drinking water; MCL not established

Table 3. Analytic Results for Ground Water - Volatile Organic Compounds - Shell Service Station WIC #204-0072-0502, 2160 Otis Drive, Alameda, California

Well ID	Date Sampled	Depth to Water (ft)	TCE	TCA	PCE	Chloroform	parts per billion (µg/l)			Carbon Disulfate	Vinyl Chloride
							cis-1,2-DCE	trans-1,2-DCE	1,2-DCA		
S-1	09/04/87 ^a	---	---	---	---	---	---	---	---	---	---
	09/11/89	4.29	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/11/90	4.00	<0.4	<0.4	<0.4	1.7	<0.4	<0.4	<0.4	---	<0.4
	07/10/90	4.25	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	---	<2
	10/09/90	4.96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	<2
	01/07/94	4.19	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	<0.5
	01/07/94 ^{dup}	4.19	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	<0.5
	11/01/94	4.84	<0.4	<0.4	<0.4	<0.4	---	<0.4	<0.4	---	<0.4
	04/20/95	4.14	<5.0	<5.0	<5.0	<5.0	---	<5.0	<5.0	---	<5.0
05/23/95	3.51	<5.0	<5.0	<5.0	<5.0	---	<5.0	<5.0	---	<5.0	
MW-1	04/11/90	5.23	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	---	<0.4
	07/10/90	5.40	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	---	<2
	10/09/90	5.61	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	<2
	01/07/94	5.26	---	---	---	---	---	---	---	---	---
	08/18/94	5.40	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	---	---
	10/11/94	5.60	<0.4	<0.4	<0.4	<0.4	---	<0.4	<0.4	---	<0.4
	04/20/95	4.40	<5.0	<5.0	<5.0	<5.0	---	<5.0	<5.0	---	<5.0
MW-2	04/11/90	4.51	1.2	<0.4	<0.4	4.5	<0.4	16	<0.4	---	<2
	07/10/90	4.61	0.93	<0.4	<0.4	1.7	<0.4	11	0.44	---	<2
	10/09/90	4.74	1.3	<0.5	<0.5	1.6	46	6.7	<0.5	---	2.5
	01/17/91 ^b	4.73	1.2	<0.5	<0.5	0.6	74	12	0.5	---	3.0
	04/09/91	4.09	<5	<5	<5	<5	64	<5	<5	<0.5	<10
	07/10/91	4.66	<0.5	<0.5	<0.5	6.9	43	<0.5	<0.5	14	<10
	10/09/91	4.81	1.9	<1	<1	28	7.4	54	16	<1	1.7
	01/24/92	4.66	2.5	<0.5	<0.5	7.0	19	16	4.3	0.6	<0.5
	04/23/92	4.51	<3	<3	<3	3.0	<3	84	18	<3	<3
07/01/92	4.57	2.0	<1	<1	2.0	<1	54	14	<1	1.0	



Table 3. Analytic Results for Ground Water - Volatile Organic Compounds - Shell Service Station WIC #204-0072-0502, 2160 Otis Drive, Alameda, California

Well ID	Date Sampled	Depth to Water (ft)	TCE	TCA	PCE	Chloroform	parts per billion (µg/l)			Carbon Disulfate	Vinyl Chloride
							cis-1,2-DCE	trans-1,2-DCE	1,2-DCA		
S-1	09/04/87 ^a	---	---	---	---	---	---	---	---	---	---
	09/11/89	4.29	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/11/90	4.00	<0.4	<0.4	<0.4	1.7	<0.4	<0.4	<0.4	---	<0.4
	07/10/90	4.25	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	---	<2
	10/09/90	4.96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	<2
	01/07/94	4.19	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	<0.5
	01/07/94 ^{dup}	4.19	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	<0.5
	11/01/94	4.84	<0.4	<0.4	<0.4	<0.4	---	<0.4	<0.4	---	<0.4
	04/20/95	4.14	<5.0	<5.0	<5.0	<5.0	---	<5.0	<5.0	---	<5.0
05/23/95	3.51	<5.0	<5.0	<5.0	<5.0	---	<5.0	<5.0	---	<5.0	
MW-1	04/11/90	5.23	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	---	<0.4
	07/10/90	5.40	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	---	<2
	10/09/90	5.61	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	<2
	01/07/94	5.26	---	---	---	---	---	---	---	---	---
	08/18/94	5.40	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	---	---
	10/11/94	5.60	<0.4	<0.4	<0.4	<0.4	---	<0.4	<0.4	---	<0.4
	04/20/95	4.40	<5.0	<5.0	<5.0	<5.0	---	<5.0	<5.0	---	<5.0
MW-2	04/11/90	4.51	1.2	<0.4	<0.4	4.5	<0.4	16	<0.4	---	<2
	07/10/90	4.61	0.93	<0.4	<0.4	1.7	<0.4	11	0.44	---	<2
	10/09/90	4.74	1.3	<0.5	<0.5	1.6	46	6.7	<0.5	---	2.5
	01/17/91 ^b	4.73	1.2	<0.5	<0.5	0.6	74	12	0.5	---	3.0
	04/09/91	4.09	<5	<5	<5	<5	64	<5	<5	<0.5	<10
	07/10/91	4.66	<0.5	<0.5	<0.5	6.9	43	<0.5	<0.5	14	<10
	10/09/91	4.81	1.9	<1	<1	28	7.4	54	16	<1	1.7
	01/24/92	4.66	2.5	<0.5	<0.5	7.0	19	16	4.3	0.6	<0.5
	04/23/92	4.51	<3	<3	<3	3.0	<3	84	18	<3	<3
07/01/92	4.57	2.0	<1	<1	2.0	<1	54	14	<1	1.0	



Table 3. Analytic Results for Ground Water - Volatile Organic Compounds - Shell Service Station WIC #204-0072-0502, 2160 Otis Drive, Alameda, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TCE	TCA	PCE	Chloroform	cis-	trans-	1,2-DCA	Carbon Disulfate	Vinyl Chloride
							1,2-DCE	1,2-DCE			
←————— parts per billion (µg/l) —————→											
	10/92/92	4.80	1.0	<1	<1	<1	61	12	<1	---	<1
	01/05/93	4.39	1.7	<0.5	2.2	<0.5	33	8.7	<0.5	---	.67
	04/08/93	4.15	1.3	<1	<1	<1	38	7.8	<1	---	<1
	07/20/93	4.40	2.4	<1	4.7	2.3	43	10	<0.5	---	<0.5
	10/15/93	4.38	<2.5	<2.5	<2.5	<2.5	110	25	<2.5	---	<2.5
	01/07/94	4.34	3.8	<0.5	14.0	8.9	29	5.4	<0.5	---	<0.5
	04/13/94	4.29	4.3	<1.3	5.7	2.9	76	14	<1.3	---	---
	07/26/94	4.56	4.3	<0.4	3.5	<0.4	57	5.7	<0.4	---	<0.4
	11/11/94	4.68	2.2	<0.4	6.3	5.6	---	2.2	<0.4	---	<0.4
	01/13/95	3.48	<5.0	<5.0	18	25	<5.0 ^c	<5.0	<5.0	9.4	<5.0
	04/20/95	3.78	<5.0	<5.0	<5.0	<5.0	---	<5.0	<5.0	---	<5.0
	04/20/95 ^{dup}	3.78	<5.0	<5.0	<5.0	<5.0	---	<5.0	<5.0	---	<5.0
	05/23/95	3.87	<5.0	<5.0	9.8	7.3	---	<5.0	<5.0	---	<5.0
BH-C	12/17/93	5.0	<2	<2	<2	<2	<2	<2	<2	---	<2
BH-D	12/17/93	5.0	<2	<2	<2	<2	<2	<2	<2	---	<2
BH-E	12/17/93	5.5	<2	<2	<2	<2	<2	<2	<2	---	<2
DTSC MCLs			5	200	5	NE	6	10	0.5	NE	0.5

Table 3. Analytic Results for Ground Water - Volatile Organic Compounds - Shell Service Station WIC #204-0072-0502, 2160 Otis Drive, Alameda, California (continued)

Abbreviations:

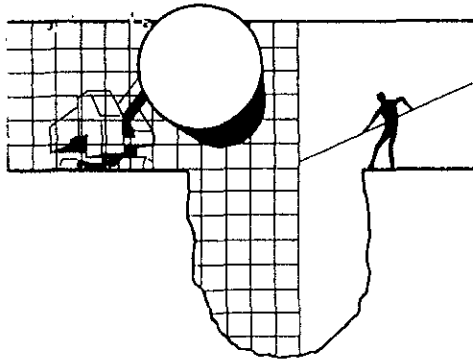
TCE = Trichloroethene by EPA Method 601/8010 or 8240
TCA = 1,1,1-Trichloroethane by EPA Method 601/8010 or 8240
PCE = Tetrachloroethene by EPA Method 601/8010 or 8240
cis-1,2-DCE = cis-1,2-Dichloroethene by EPA Method 601/8010 or 8240
trans-1,2-DCE = trans-1,2-Dichloroethene by EPA Method 601/8010 or 8240
--- = Not analyzed
<n = Not detected above detection limit of n ppb
1,2-DCA = 1,2 dichloroethane by EPA Method 601/8010 or 8240
DTCS MCLs = Department of Toxic Substance control maximum contaminant levels
NE = DTSC MCL not established
ND = Analyte not detected, detection limit not known

Notes:

a = 7.0 ppb unknown alcohol and 270 ppb acetone detected
b = 5.0 ppb chlorobenzene detected
c = Data confirmed through lab

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

May 12, 1995

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

Attn: Daniel T. Kirk

SITE:
Shell WIC #204-0072-0502
2160 Otis Drive
Alameda, California

QUARTER:
2nd quarter of 1995

QUARTERLY GROUNDWATER SAMPLING REPORT 950420-II-2

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

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

STANDARD PROCEDURES

Evacuation

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

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

Decontamination

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

Free Product Skimmer

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

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

Sample Containers

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

Sampling

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

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

Sample Designations

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

Chain of Custody

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

Hazardous Materials Testing Laboratory

The samples obtained at this site were delivered to National Environmental Testing, Inc. in Santa Rosa, California. NET is a California Department of Health Services certified Hazardous Materials Testing Laboratory and is listed as DOHS HMTL #1386.

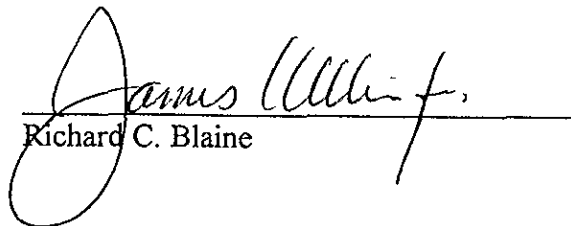
Objective Information Collection

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

Reportage

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

Please call if we can be of any further assistance.


Richard C. Blaine

RCB/lp

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

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

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	4/20/95	TOC	-	NONE	-	-	4.40	16.66
MW-2 *	4/20/95	TOC	-	NONE	-	-	3.78	17.10
S-1	4/20/95	TOC	-	NONE	-	-	4.14	18.80

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



SHELL OIL COMPANY
 RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: 950420-H2

Date: 4/20/95
 Page 1 of 1

Site Address: 2160 Otis Drive, Alameda

WIC#: 204-0072-0502

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

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

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

Comments:

Sampled by: TNH
 Printed Name: TROY N. HORNER

Analyses Required

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

LAB: NET

CHECK ONE (1) BOX ONLY	C1/D1	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		16 days <input checked="" type="checkbox"/> (Normal)
Water Clarity/Disposal <input type="checkbox"/> 6443		Other <input type="checkbox"/>
Soil/Air Rem. of Sys. O & M <input type="checkbox"/> 6452		
Water Rem. of Sys. O & M <input type="checkbox"/> 6453		
Other <input type="checkbox"/>		

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

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	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS	
MW-1	4/20			X		6				X		X							
MW-2	4/20			X		6				X		X							
S-1	4/20			X		6				X		X							
DUP	4/20			X		6				X		X							
EB	4/20			X		3						X							
TTB	4/20			X		2						X							

4/21/95
Paul Prosser
 Paul Prosser
 4/21/95

Relinquished By (signature): <u>[Signature]</u>	Printed Name: <u>TROY N. HORNER</u>	Date: <u>4/20</u> Time: <u>13:35</u>	Received (signature): <u>[Signature]</u>	Printed Name: <u>ET LUMBICE</u>	Date: <u>4/21</u> Time: <u>13:35</u>
Relinquished By (signature): <u>[Signature]</u>	Printed Name: <u>ET LUMBICE</u>	Date: <u>4/21</u> Time: <u>16:50</u>	Received (signature): <u>[Signature]</u>	Printed Name: <u>PAUL PROSSER</u>	Date: <u>4/21/95</u> Time: <u>0:00</u>
Relinquished By (signature):	Printed Name:	Date:	Received (signature):	Printed Name:	Date:

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

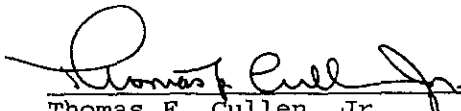
Date: 05/03/1995
NET Client Acct. No: 1821
NET Pacific Job No: 95.01653
Received: 04/22/1995


Client Reference Information

Shell 2160 Otis Drive, Alameda, CA/950420-H2

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:


Thomas F. Cullen, Jr.
Division Manager


Linda DeMartino
Project Coordinator

Enclosure(s)





Client Name: Blaine Tech Services
 Client Acct: 1821
 © NET Job No: 95.01653

Date: 05/03/1995
 ELAP Cert: 1386
 Page: 2

Ref: Shell 2160 Otis Drive, Alameda, CA/950420-H2

SAMPLE DESCRIPTION: MW-1
 Date Taken: 04/20/1995
 Time Taken:
 NET Sample No: 240590

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch
TPH (Gas/BTXE, Liquid)								
METHOD 5030/M8015	--						04/27/1995	2793
DILUTION FACTOR*	1						04/27/1995	2793
as Gasoline	ND		50	ug/L	5030		04/27/1995	2793
Carbon Range:	--						04/27/1995	2793
METHOD 8020 (GC, Liquid)	--						04/27/1995	2793
Benzene	ND		0.5	ug/L	8020		04/27/1995	2793
Toluene	ND		0.5	ug/L	8020		04/27/1995	2793
Ethylbenzene	ND		0.5	ug/L	8020		04/27/1995	2793
Xylenes (Total)	ND		0.5	ug/L	8020		04/27/1995	2793
SURROGATE RESULTS	--						04/27/1995	2793
Bromofluorobenzene (SURR)	83			% Rec.	5030		04/27/1995	2793

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: 95.01653

Date: 05/03/1995
 ELAP Cert: 1386
 Page: 3

Ref: Shell 2160 Otis Drive, Alameda, CA/950420-H2

SAMPLE DESCRIPTION: MW-1
 Date Taken: 04/20/1995
 Time Taken:
 NET Sample No: 240590

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
METHOD 8240 (GCMS, Liquid)								
DILUTION FACTOR*	1						04/26/1995	464
Acetone	ND		10	ug/L	8240		04/26/1995	464
Benzene	ND		5.0	ug/L	8240		04/26/1995	464
Bromodichloromethane	ND		5.0	ug/L	8240		04/26/1995	464
Bromoform	ND		5.0	ug/L	8240		04/26/1995	464
Bromomethane	ND		5.0	ug/L	8240		04/26/1995	464
2-Butanone	ND		10	ug/L	8240		04/26/1995	464
Carbon disulfide	ND		5.0	ug/L	8240		04/26/1995	464
Carbon Tetrachloride	ND		5.0	ug/L	8240		04/26/1995	464
Chlorobenzene	ND		5.0	ug/L	8240		04/26/1995	464
Chloroethane	ND		5.0	ug/L	8240		04/26/1995	464
2-Chloroethyl vinyl ether	ND		10	ug/L	8240		04/26/1995	464
Chloroform	ND		5.0	ug/L	8240		04/26/1995	464
Chloromethane	ND		5.0	ug/L	8240		04/26/1995	464
Dibromochloromethane	ND		5.0	ug/L	8240		04/26/1995	464
1,2-Dichlorobenzene	ND		6.0	ug/L	8240		04/26/1995	464
1,3-Dichlorobenzene	ND		6.0	ug/L	8240		04/26/1995	464
1,4-Dichlorobenzene	ND		6.0	ug/L	8240		04/26/1995	464
1,1-Dichloroethane	ND		5.0	ug/L	8240		04/26/1995	464
1,2-Dichloroethane	ND		5.0	ug/L	8240		04/26/1995	464
1,1-Dichloroethene	ND		5.0	ug/L	8240		04/26/1995	464
trans-1,2-Dichloroethene	ND		5.0	ug/L	8240		04/26/1995	464
1,2-Dichloropropane	ND		5.0	ug/L	8240		04/26/1995	464
cis-1,3-Dichloropropene	ND		5.0	ug/L	8240		04/26/1995	464
trans-1,3-Dichloropropene	ND		5.0	ug/L	8240		04/26/1995	464
Ethyl benzene	ND		5.0	ug/L	8240		04/26/1995	464
2-Hexanone	ND		10	ug/L	8240		04/26/1995	464
Methylene chloride	ND		5.0	ug/L	8240		04/26/1995	464
4-Methyl-2-pentanone	ND		10	ug/L	8240		04/26/1995	464
Styrene	ND		5.0	ug/L	8240		04/26/1995	464
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L	8240		04/26/1995	464
Tetrachloroethene	ND		5.0	ug/L	8240		04/26/1995	464
Toluene	ND		5.0	ug/L	8240		04/26/1995	464
1,1,1-Trichloroethane	ND		5.0	ug/L	8240		04/26/1995	464
1,1,2-Trichloroethane	ND		5.0	ug/L	8240		04/26/1995	464
Trichloroethene	ND		5.0	ug/L	8240		04/26/1995	464
Trichlorofluoromethane	ND		5.0	ug/L	8240		04/26/1995	464
Vinyl acetate	ND		10	ug/L	8240		04/26/1995	464
Vinyl chloride	ND		5.0	ug/L	8240		04/26/1995	464
Xylenes (total)	ND		5.0	ug/L	8240		04/26/1995	464
SURROGATE RESULTS	--						04/26/1995	464
Toluene-d8 (SURR)	103			% Rec.	8240		04/26/1995	464
Bromofluorobenzene (SURR)	102			% Rec.	8240		04/26/1995	464
1,2-Dichloroethane-d4 (SURR)	94			% Rec.	8240		04/26/1995	464

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: 95.01653

Date: 05/03/1995
 ELAP Cert: 1386
 Page: 4

Ref: Shell 2160 Otis Drive, Alameda, CA/950420-H2

SAMPLE DESCRIPTION: MW-2
 Date Taken: 04/20/1995
 Time Taken:
 NET Sample No: 240591

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
TPH (Gas/BTEX, Liquid)								
METHOD 5030/M8015	--						04/27/1995	2793
DILUTION FACTOR*	1						04/27/1995	2793
as Gasoline	ND		50	ug/L	5030		04/27/1995	2793
Carbon Range:	--						04/27/1995	2793
METHOD 8020 (GC, Liquid)	--						04/27/1995	2793
Benzene	ND		0.5	ug/L	8020		04/27/1995	2793
Toluene	1.0	C	0.5	ug/L	8020		04/27/1995	2793
Ethylbenzene	ND		0.5	ug/L	8020		04/27/1995	2793
Xylenes (Total)	3.6	C	0.5	ug/L	8020		04/27/1995	2793
SURROGATE RESULTS	--						04/27/1995	2793
Bromofluorobenzene (SURR)	101			% Rec.	5030		04/27/1995	2793

C : Positive result confirmed by secondary column or GC/MS analysis.

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: 95.01653

Date: 05/03/1995
 ELAP Cert: 1386
 Page: 5

Ref: Shell 2160 Otis Drive, Alameda, CA/950420-H2

SAMPLE DESCRIPTION: MW-2
 Date Taken: 04/20/1995
 Time Taken:
 NET Sample No: 240591

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch No.
METHOD 8240 (GCMS, Liquid)								
DILUTION FACTOR*	1						04/26/1995	464
Acetone	ND		10	ug/L	8240		04/26/1995	464
Benzene	7.7		5.0	ug/L	8240		04/26/1995	464
Bromodichloromethane	ND		5.0	ug/L	8240		04/26/1995	464
Bromoform	ND		5.0	ug/L	8240		04/26/1995	464
Bromomethane	ND		5.0	ug/L	8240		04/26/1995	464
2-Butanone	ND		10	ug/L	8240		04/26/1995	464
Carbon disulfide	ND		5.0	ug/L	8240		04/26/1995	464
Carbon Tetrachloride	ND		5.0	ug/L	8240		04/26/1995	464
Chlorobenzene	ND		5.0	ug/L	8240		04/26/1995	464
Chloroethane	ND		5.0	ug/L	8240		04/26/1995	464
2-Chloroethyl vinyl ether	ND		10	ug/L	8240		04/26/1995	464
Chloroform	ND		5.0	ug/L	8240		04/26/1995	464
Chloromethane	ND		5.0	ug/L	8240		04/26/1995	464
Dibromochloromethane	ND		5.0	ug/L	8240		04/26/1995	464
1,2-Dichlorobenzene	ND		6.0	ug/L	8240		04/26/1995	464
1,3-Dichlorobenzene	ND		6.0	ug/L	8240		04/26/1995	464
1,4-Dichlorobenzene	ND		6.0	ug/L	8240		04/26/1995	464
1,1-Dichloroethane	ND		5.0	ug/L	8240		04/26/1995	464
1,2-Dichloroethane	ND		5.0	ug/L	8240		04/26/1995	464
1,1-Dichloroethene	ND		5.0	ug/L	8240		04/26/1995	464
trans-1,2-Dichloroethene	ND		5.0	ug/L	8240		04/26/1995	464
1,2-Dichloropropane	ND		5.0	ug/L	8240		04/26/1995	464
cis-1,3-Dichloropropene	ND		5.0	ug/L	8240		04/26/1995	464
trans-1,3-Dichloropropene	ND		5.0	ug/L	8240		04/26/1995	464
Ethyl benzene	ND		5.0	ug/L	8240		04/26/1995	464
2-Hexanone	ND		10	ug/L	8240		04/26/1995	464
Methylene chloride	ND		5.0	ug/L	8240		04/26/1995	464
4-Methyl-2-pentanone	ND		10	ug/L	8240		04/26/1995	464
Styrene	ND		5.0	ug/L	8240		04/26/1995	464
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L	8240		04/26/1995	464
Tetrachloroethene	ND		5.0	ug/L	8240		04/26/1995	464
Toluene	ND		5.0	ug/L	8240		04/26/1995	464
1,1,1-Trichloroethane	ND		5.0	ug/L	8240		04/26/1995	464
1,1,2-Trichloroethane	ND		5.0	ug/L	8240		04/26/1995	464
Trichloroethene	ND		5.0	ug/L	8240		04/26/1995	464
Trichlorofluoromethane	ND		5.0	ug/L	8240		04/26/1995	464
Vinyl acetate	ND		10	ug/L	8240		04/26/1995	464
Vinyl chloride	ND		5.0	ug/L	8240		04/26/1995	464
Xylenes (total)	ND		5.0	ug/L	8240		04/26/1995	464
SURROGATE RESULTS	--						04/26/1995	464
Toluene-d8 (SURR)	98			% Rec.	8240		04/26/1995	464
Bromofluorobenzene (SURR)	101			% Rec.	8240		04/26/1995	464
1,2-Dichloroethane-d4 (SURR)	91			% Rec.	8240		04/26/1995	464

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: 95.01653

Date: 05/03/1995
 ELAP Cert: 1386
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Ref: Shell 2160 Otis Drive, Alameda, CA/950420-H2

SAMPLE DESCRIPTION: S-1

Date Taken: 04/20/1995

Time Taken:

NET Sample No: 240592

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch No.
TPH (Gas/BTXE, Liquid)								
METHOD 5030/M8015	--						04/27/1995	2793
DILUTION FACTOR*	1						04/27/1995	2793
as Gasoline	ND		50	ug/L	5030		04/27/1995	2793
Carbon Range:	--						04/27/1995	2793
METHOD 8020 (GC, Liquid)	--						04/27/1995	2793
Benzene	2.2	C	0.5	ug/L	8020		04/27/1995	2793
Toluene	2.2	C	0.5	ug/L	8020		04/27/1995	2793
Ethylbenzene	0.6	C	0.5	ug/L	8020		04/27/1995	2793
Xylenes (Total)	2.5	C	0.5	ug/L	8020		04/27/1995	2793
SURROGATE RESULTS	--						04/27/1995	2793
Bromofluorobenzene (SURR)	101			% Rec.	5030		04/27/1995	2793

C : Positive result confirmed by secondary column or GC/MS analysis.

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: 95.01653

Date: 05/03/1995
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Ref: Shell 2160 Otis Drive, Alameda, CA/950420-H2

SAMPLE DESCRIPTION: S-1

Date Taken: 04/20/1995

Time Taken:

NET Sample No: 240592

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
METHOD 8240 (GCMS, Liquid)								
DILUTION FACTOR*	1						04/26/1995	464
Acetone	ND		10	ug/L	8240		04/26/1995	464
Benzene	ND		5.0	ug/L	8240		04/26/1995	464
Bromodichloromethane	ND		5.0	ug/L	8240		04/26/1995	464
Bromoform	ND		5.0	ug/L	8240		04/26/1995	464
Bromomethane	ND		5.0	ug/L	8240		04/26/1995	464
2-Butanone	ND		10	ug/L	8240		04/26/1995	464
Carbon disulfide	ND		5.0	ug/L	8240		04/26/1995	464
Carbon Tetrachloride	ND		5.0	ug/L	8240		04/26/1995	464
Chlorobenzene	ND		5.0	ug/L	8240		04/26/1995	464
Chloroethane	ND		5.0	ug/L	8240		04/26/1995	464
2-Chloroethyl vinyl ether	ND		10	ug/L	8240		04/26/1995	464
Chloroform	ND		5.0	ug/L	8240		04/26/1995	464
Chloromethane	ND		5.0	ug/L	8240		04/26/1995	464
Dibromochloromethane	ND		5.0	ug/L	8240		04/26/1995	464
1,2-Dichlorobenzene	ND		6.0	ug/L	8240		04/26/1995	464
1,3-Dichlorobenzene	ND		6.0	ug/L	8240		04/26/1995	464
1,4-Dichlorobenzene	ND		6.0	ug/L	8240		04/26/1995	464
1,1-Dichloroethane	ND		5.0	ug/L	8240		04/26/1995	464
1,2-Dichloroethane	ND		5.0	ug/L	8240		04/26/1995	464
1,1-Dichloroethene	ND		5.0	ug/L	8240		04/26/1995	464
trans-1,2-Dichloroethene	ND		5.0	ug/L	8240		04/26/1995	464
1,2-Dichloropropane	ND		5.0	ug/L	8240		04/26/1995	464
cis-1,3-Dichloropropene	ND		5.0	ug/L	8240		04/26/1995	464
trans-1,3-Dichloropropene	ND		5.0	ug/L	8240		04/26/1995	464
Ethyl benzene	ND		5.0	ug/L	8240		04/26/1995	464
2-Hexanone	ND		10	ug/L	8240		04/26/1995	464
Methylene chloride	ND		5.0	ug/L	8240		04/26/1995	464
4-Methyl-2-pentanone	ND		10	ug/L	8240		04/26/1995	464
Styrene	ND		5.0	ug/L	8240		04/26/1995	464
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L	8240		04/26/1995	464
Tetrachloroethene	ND		5.0	ug/L	8240		04/26/1995	464
Toluene	ND		5.0	ug/L	8240		04/26/1995	464
1,1,1-Trichloroethane	ND		5.0	ug/L	8240		04/26/1995	464
1,1,2-Trichloroethane	ND		5.0	ug/L	8240		04/26/1995	464
Trichloroethene	ND		5.0	ug/L	8240		04/26/1995	464
Trichlorofluoromethane	ND		5.0	ug/L	8240		04/26/1995	464
Vinyl acetate	ND		10	ug/L	8240		04/26/1995	464
Vinyl chloride	ND		5.0	ug/L	8240		04/26/1995	464
Xylenes (total)	ND		5.0	ug/L	8240		04/26/1995	464
SURROGATE RESULTS	--						04/26/1995	464
Toluene-d8 (SURR)	100			% Rec.	8240		04/26/1995	464
Bromofluorobenzene (SURR)	102			% Rec.	8240		04/26/1995	464
1,2-Dichloroethane-d4 (SURR)	92			% Rec.	8240		04/26/1995	464

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Client Name: Blaine Tech Services
 Client Acct: 1821
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Ref: Shell 2160 Otis Drive, Alameda, CA/950420-H2

SAMPLE DESCRIPTION: DUP

Date Taken: 04/20/1995

Time Taken:

NET Sample No: 240593

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch No.
TPH (Gas/BTEX, Liquid)								
METHOD 5030/M8015	--						04/27/1995	2793
DILUTION FACTOR*	1						04/27/1995	2793
as Gasoline	ND		50	ug/L	5030		04/27/1995	2793
Carbon Range:	--						04/27/1995	2793
METHOD 8020 (GC, Liquid)								
Benzene	9.9	C	0.5	ug/L	8020		04/27/1995	2793
Toluene	ND		0.5	ug/L	8020		04/27/1995	2793
Ethylbenzene	ND		0.5	ug/L	8020		04/27/1995	2793
Xylenes (Total)	ND		0.5	ug/L	8020		04/27/1995	2793
SURROGATE RESULTS								
Bromofluorobenzene (SURR)	99			% Rec.	5030		04/27/1995	2793

C : Positive result confirmed by secondary column or GC/MS analysis.

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Client Name: Blaine Tech Services
 Client Acct: 1821
 NET Job No: 95.01653

Date: 05/03/1995
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Ref: Shell 2160 Otis Drive, Alameda, CA/950420-H2

SAMPLE DESCRIPTION: DUP

Date Taken: 04/20/1995

Time Taken:

NET Sample No: 240593

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
METHOD 8240 (GCMS, Liquid)								
DILUTION FACTOR*	1						04/27/1995	464
Acetone	ND		10	ug/L	8240		04/27/1995	464
Benzene	9.4		5.0	ug/L	8240		04/27/1995	464
Bromodichloromethane	ND		5.0	ug/L	8240		04/27/1995	464
Bromoform	ND		5.0	ug/L	8240		04/27/1995	464
Bromomethane	ND		5.0	ug/L	8240		04/27/1995	464
2-Butanone	ND		10	ug/L	8240		04/27/1995	464
Carbon disulfide	ND		5.0	ug/L	8240		04/27/1995	464
Carbon Tetrachloride	ND		5.0	ug/L	8240		04/27/1995	464
Chlorobenzene	ND		5.0	ug/L	8240		04/27/1995	464
Chloroethane	ND		5.0	ug/L	8240		04/27/1995	464
2-Chloroethyl vinyl ether	ND		10	ug/L	8240		04/27/1995	464
Chloroform	ND		5.0	ug/L	8240		04/27/1995	464
Chloromethane	ND		5.0	ug/L	8240		04/27/1995	464
Dibromochloromethane	ND		5.0	ug/L	8240		04/27/1995	464
1,2-Dichlorobenzene	ND		6.0	ug/L	8240		04/27/1995	464
1,3-Dichlorobenzene	ND		6.0	ug/L	8240		04/27/1995	464
1,4-Dichlorobenzene	ND		6.0	ug/L	8240		04/27/1995	464
1,1-Dichloroethane	ND		5.0	ug/L	8240		04/27/1995	464
1,2-Dichloroethane	ND		5.0	ug/L	8240		04/27/1995	464
1,1-Dichloroethene	ND		5.0	ug/L	8240		04/27/1995	464
trans-1,2-Dichloroethene	ND		5.0	ug/L	8240		04/27/1995	464
1,2-Dichloropropane	ND		5.0	ug/L	8240		04/27/1995	464
cis-1,3-Dichloropropene	ND		5.0	ug/L	8240		04/27/1995	464
trans-1,3-Dichloropropene	ND		5.0	ug/L	8240		04/27/1995	464
Ethyl benzene	ND		5.0	ug/L	8240		04/27/1995	464
2-Hexanone	ND		10	ug/L	8240		04/27/1995	464
Methylene chloride	ND		5.0	ug/L	8240		04/27/1995	464
4-Methyl-2-pentanone	ND		10	ug/L	8240		04/27/1995	464
Styrene	ND		5.0	ug/L	8240		04/27/1995	464
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L	8240		04/27/1995	464
Tetrachloroethene	ND		5.0	ug/L	8240		04/27/1995	464
Toluene	ND		5.0	ug/L	8240		04/27/1995	464
1,1,1-Trichloroethane	ND		5.0	ug/L	8240		04/27/1995	464
1,1,2-Trichloroethane	ND		5.0	ug/L	8240		04/27/1995	464
Trichloroethene	ND		5.0	ug/L	8240		04/27/1995	464
Trichlorofluoromethane	ND		5.0	ug/L	8240		04/27/1995	464
Vinyl acetate	ND		10	ug/L	8240		04/27/1995	464
Vinyl chloride	ND		5.0	ug/L	8240		04/27/1995	464
Xylenes (total)	ND		5.0	ug/L	8240		04/27/1995	464
SURROGATE RESULTS								
Toluene-d8 (SURR)	94			% Rec.	8240		04/27/1995	464
Bromofluorobenzene (SURR)	97			% Rec.	8240		04/27/1995	464
1,2-Dichloroethane-d4 (SURR)	85			% Rec.	8240		04/27/1995	464

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Client Name: Blaine Tech Services
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Ref: Shell 2160 Otis Drive, Alameda, CA/950420-H2

SAMPLE DESCRIPTION: EB

Date Taken: 04/20/1995

Time Taken:

NET Sample No: 240594

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch No.
TPH (Gas/BTEX, Liquid)								
METHOD 5030/M8015	--						04/27/1995	2793
DILUTION FACTOR*	1						04/27/1995	2793
as Gasoline	ND		50	ug/L	5030		04/27/1995	2793
Carbon Range:	--						04/27/1995	2793
METHOD 8020 (GC, Liquid)	--						04/27/1995	2793
Benzene	ND		0.5	ug/L	8020		04/27/1995	2793
Toluene	ND		0.5	ug/L	8020		04/27/1995	2793
Ethylbenzene	ND		0.5	ug/L	8020		04/27/1995	2793
Xylenes (Total)	ND		0.5	ug/L	8020		04/27/1995	2793
SURROGATE RESULTS	--						04/27/1995	2793
Bromofluorobenzene (SURR)	89			% Rec.	5030		04/27/1995	2793

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 2160 Otis Drive, Alameda, CA/950420-H2

SAMPLE DESCRIPTION: TB

Date Taken: 04/20/1995

Time Taken:

NET Sample No: 240595

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch
TPH (Gas/BTXE, Liquid)								
METHOD 5030/M8015	--						04/27/1995	2793
DILUTION FACTOR*	1						04/27/1995	2793
as Gasoline	ND		50	ug/L	5030		04/27/1995	2793
Carbon Range:	--						04/27/1995	2793
METHOD 8020 (GC, Liquid)	--						04/27/1995	2793
Benzene	ND		0.5	ug/L	8020		04/27/1995	2793
Toluene	ND		0.5	ug/L	8020		04/27/1995	2793
Ethylbenzene	ND		0.5	ug/L	8020		04/27/1995	2793
Xylenes (Total)	ND		0.5	ug/L	8020		04/27/1995	2793
SURROGATE RESULTS	--						04/27/1995	2793
Bromofluorobenzene (SURR)	101			% Rec.	5030		04/27/1995	2793

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



Client Name: Blaine Tech Services
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Ref: Shell 2160 Otis Drive, Alameda, CA/950420-H2

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV	CCV	Units	Date Analyzed	Analyst Initials	Run Batch Number
	Standard % Recovery	Standard Amount Found				
TPH (Gas/BTXE,Liquid)						
as Gasoline	98.6	0.493	0.50	mg/L	04/27/1995	caf 2793
Benzene	101.8	5.09	5.00	ug/L	04/27/1995	caf 2793
Toluene	101.0	5.05	5.00	ug/L	04/27/1995	caf 2793
Ethylbenzene	100.8	5.04	5.00	ug/L	04/27/1995	caf 2793
Xylenes (Total)	99.9	14.98	15.0	ug/L	04/27/1995	caf 2793
Bromofluorobenzene (SURR)	96.0	96	100	% Rec.	04/27/1995	caf 2793

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



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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 8240 (GCMS, Liquid)							
Chloroform	116.8	58.4	50.0	ug/L	04/26/1995	gec	464
1,1-Dichloroethene	107.4	53.7	50.0	ug/L	04/26/1995	gec	464
1,2-Dichloropropane	108.8	54.4	50.0	ug/L	04/26/1995	gec	464
Ethyl benzene	108.0	54.0	50.0	ug/L	04/26/1995	gec	464
Toluene	103.6	51.8	50.0	ug/L	04/26/1995	gec	464
Vinyl chloride	100.0	50.0	50.0	ug/L	04/26/1995	gec	464
Toluene-d8 (SURR)	102.0	102	100	% Rec.	04/26/1995	gec	464
Bromofluorobenzene (SURR)	103.0	103	100	% Rec.	04/26/1995	gec	464
1,2-Dichloroethane-d4 (SURR)	93.0	93	100	% Rec.	04/26/1995	gec	464

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



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NET Job No: 95.01653

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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 8240 (GCMS, Liquid)							
Chloroform	99.6	49.8	50.0	ug/L	04/27/1995	gec	464
1,1-Dichloroethene	97.6	48.8	50.0	ug/L	04/27/1995	gec	464
1,2-Dichloropropane	83.0	41.5	50.0	ug/L	04/27/1995	gec	464
Ethyl benzene	101.8	50.9	50.0	ug/L	04/27/1995	gec	464
Toluene	101.4	50.7	50.0	ug/L	04/27/1995	gec	464
Vinyl chloride	87.2	43.6	50.0	ug/L	04/27/1995	gec	464
Toluene-d8 (SURR)	97.0	97	100	% Rec.	04/27/1995	gec	464
Bromofluorobenzene (SURR)	95.0	95	100	% Rec.	04/27/1995	gec	464
1,2-Dichloroethane-d4 (SURR)	93.0	93	100	% Rec.	04/27/1995	gec	464

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



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METHOD BLANK REPORT

Parameter	Method	Reporting		Date	Analyst	Run
	Blank	Amount Found	Limit	Analyzed	Initials	Batch Number
TPH (Gas/BTEX, Liquid)						
as Gasoline	ND	0.05	mg/L	04/27/1995	caf	2793
Benzene	ND	0.5	ug/L	04/27/1995	caf	2793
Toluene	ND	0.5	ug/L	04/27/1995	caf	2793
Ethylbenzene	ND	0.5	ug/L	04/27/1995	caf	2793
Xylenes (Total)	ND	0.5	ug/L	04/27/1995	caf	2793
Bromofluorobenzene (SURR)	88		% Rec.	04/27/1995	caf	2793

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



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Date: 05/03/1995
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METHOD BLANK REPORT

Parameter	Method	Blank		Date	Analyst	Run
	Amount	Reporting	Units			
	Found	Limit		Analyzed	Initials	Batch
METHOD 8240 (GCMS, Liquid)						
Acetone	ND	10	ug/L	04/26/1995	gec	464
Benzene	ND	5.0	ug/L	04/26/1995	gec	464
Bromodichloromethane	ND	5.0	ug/L	04/26/1995	gec	464
Bromoform	ND	5.0	ug/L	04/26/1995	gec	464
Bromomethane	ND	5.0	ug/L	04/26/1995	gec	464
2-Butanone	ND	10	ug/L	04/26/1995	gec	464
Carbon disulfide	ND	5.0	ug/L	04/26/1995	gec	464
Carbon Tetrachloride	ND	5.0	ug/L	04/26/1995	gec	464
Chlorobenzene	ND	5.0	ug/L	04/26/1995	gec	464
Chloroethane	ND	5.0	ug/L	04/26/1995	gec	464
2-Chloroethyl vinyl ether	ND	10	ug/L	04/26/1995	gec	464
Chloroform	ND	5.0	ug/L	04/26/1995	gec	464
Chloromethane	ND	5.0	ug/L	04/26/1995	gec	464
Dibromochloromethane	ND	5.0	ug/L	04/26/1995	gec	464
1,2-Dichlorobenzene	ND	6.0	ug/L	04/26/1995	gec	464
1,3-Dichlorobenzene	ND	6.0	ug/L	04/26/1995	gec	464
1,4-Dichlorobenzene	ND	6.0	ug/L	04/26/1995	gec	464
1,1-Dichloroethane	ND	5.0	ug/L	04/26/1995	gec	464
1,2-Dichloroethane	ND	5.0	ug/L	04/26/1995	gec	464
1,1-Dichloroethene	ND	5.0	ug/L	04/26/1995	gec	464
trans-1,2-Dichloroethene	ND	5.0	ug/L	04/26/1995	gec	464
1,2-Dichloropropane	ND	5.0	ug/L	04/26/1995	gec	464
cis-1,3-Dichloropropene	ND	5.0	ug/L	04/26/1995	gec	464
trans-1,3-Dichloropropene	ND	5.0	ug/L	04/26/1995	gec	464
Ethyl benzene	ND	5.0	ug/L	04/26/1995	gec	464
2-Hexanone	ND	10	ug/L	04/26/1995	gec	464
Methylene chloride	ND	5.0	ug/L	04/26/1995	gec	464
4-Methyl-2-pentanone	ND	10	ug/L	04/26/1995	gec	464
Styrene	ND	5.0	ug/L	04/26/1995	gec	464
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	04/26/1995	gec	464
Tetrachloroethene	ND	5.0	ug/L	04/26/1995	gec	464
Toluene	ND	5.0	ug/L	04/26/1995	gec	464
1,1,1-Trichloroethane	ND	5.0	ug/L	04/26/1995	gec	464
1,1,2-Trichloroethane	ND	5.0	ug/L	04/26/1995	gec	464
Trichloroethene	ND	5.0	ug/L	04/26/1995	gec	464
Trichlorofluoromethane	ND	5.0	ug/L	04/26/1995	gec	464
Vinyl acetate	ND	10	ug/L	04/26/1995	gec	464
Vinyl chloride	ND	5.0	ug/L	04/26/1995	gec	464
Xylenes (total)	ND	5.0	ug/L	04/26/1995	gec	464
Toluene-d8 (SURR)	102		% Rec.	04/26/1995	gec	464
Bromofluorobenzene (SURR)	100		% Rec.	04/26/1995	gec	464
1,2-Dichloroethane-d4 (SURR)	92		% Rec.	04/26/1995	gec	464

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



Client Name: Blaine Tech Services
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 NET Job No: 95.01653

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Ref: Shell 2160 Otis Drive, Alameda, CA/950420-H2

METHOD BLANK REPORT

Parameter	Method			Date Analyzed	Analyst Initials	Run Batch Number
	Blank Amount Found	Reporting Limit	Units			
METHOD 8240 (GCMS, Liquid)						
Acetone	ND	10	ug/L	04/27/1995	gec	464
Benzene	ND	5.0	ug/L	04/27/1995	gec	464
Bromodichloromethane	ND	5.0	ug/L	04/27/1995	gec	464
Bromoform	ND	5.0	ug/L	04/27/1995	gec	464
Bromomethane	ND	5.0	ug/L	04/27/1995	gec	464
2-Butanone	ND	10	ug/L	04/27/1995	gec	464
Carbon disulfide	ND	5.0	ug/L	04/27/1995	gec	464
Carbon Tetrachloride	ND	5.0	ug/L	04/27/1995	gec	464
Chlorobenzene	ND	5.0	ug/L	04/27/1995	gec	464
Chloroethane	ND	5.0	ug/L	04/27/1995	gec	464
2-Chloroethyl vinyl ether	ND	10	ug/L	04/27/1995	gec	464
Chloroform	ND	5.0	ug/L	04/27/1995	gec	464
Chloromethane	ND	5.0	ug/L	04/27/1995	gec	464
Dibromochloromethane	ND	5.0	ug/L	04/27/1995	gec	464
1,2-Dichlorobenzene	ND	6.0	ug/L	04/27/1995	gec	464
1,3-Dichlorobenzene	ND	6.0	ug/L	04/27/1995	gec	464
1,4-Dichlorobenzene	ND	6.0	ug/L	04/27/1995	gec	464
1,1-Dichloroethane	ND	5.0	ug/L	04/27/1995	gec	464
1,2-Dichloroethane	ND	5.0	ug/L	04/27/1995	gec	464
1,1-Dichloroethene	ND	5.0	ug/L	04/27/1995	gec	464
trans-1,2-Dichloroethene	ND	5.0	ug/L	04/27/1995	gec	464
1,2-Dichloropropane	ND	5.0	ug/L	04/27/1995	gec	464
cis-1,3-Dichloropropene	ND	5.0	ug/L	04/27/1995	gec	464
trans-1,3-Dichloropropene	ND	5.0	ug/L	04/27/1995	gec	464
Ethyl benzene	ND	5.0	ug/L	04/27/1995	gec	464
2-Hexanone	ND	10	ug/L	04/27/1995	gec	464
Methylene chloride	ND	5.0	ug/L	04/27/1995	gec	464
4-Methyl-2-pentanone	ND	10	ug/L	04/27/1995	gec	464
Styrene	ND	5.0	ug/L	04/27/1995	gec	464
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	04/27/1995	gec	464
Tetrachloroethene	ND	5.0	ug/L	04/27/1995	gec	464
Toluene	ND	5.0	ug/L	04/27/1995	gec	464
1,1,1-Trichloroethane	ND	5.0	ug/L	04/27/1995	gec	464
1,1,2-Trichloroethane	ND	5.0	ug/L	04/27/1995	gec	464
Trichloroethene	ND	5.0	ug/L	04/27/1995	gec	464
Trichlorofluoromethane	ND	5.0	ug/L	04/27/1995	gec	464
Vinyl acetate	ND	10	ug/L	04/27/1995	gec	464
Vinyl chloride	ND	5.0	ug/L	04/27/1995	gec	464
Xylenes (total)	ND	5.0	ug/L	04/27/1995	gec	464
Toluene-d8 (SURR)	100		% Rec.	04/27/1995	gec	464
Bromofluorobenzene (SURR)	95		% Rec.	04/27/1995	gec	464
1,2-Dichloroethane-d4 (SURR)	94		% Rec.	04/27/1995	gec	464

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



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 Client Acct: 1821
 NET Job No: 95.01653

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike				Sample Conc.	Matrix Spike Dup.			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.				
TPH (Gas/BTXE, Liquid)												240590
as Gasoline	96.6	99.0	2.5	0.50	ND	0.483	0.495	mg/L	04/27/1995	2793	240590	
Benzene	104.0	109.2	4.9	17.3	ND	18.0	18.9	ug/L	04/27/1995	2793	240590	
Toluene	94.2	94.8	0.6	34.5	ND	32.5	32.7	ug/L	04/27/1995	2793	240590	

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike				Sample Conc.	Matrix Spike Dup.			Date Analyzed	Run Batch	Sample Spiked
	Matrix Spike % Rec.	Matrix Spike % Rec.	RPD	Spike Amount		Matrix Spike Conc.	Matrix Spike Dup. Conc.	Units			
METHOD 8240 (GCMS, Liquid)											240593
Benzene	98.0	99.0	1.0	50.0	9.4	58.4	58.9	ug/L	04/27/1995	464	240593
Chlorobenzene	105.6	103.6	1.9	50.0	ND	52.8	51.8	ug/L	04/27/1995	464	240593
1,1-Dichloroethene	105.0	126.4	18.5	50.0	ND	52.5	63.2	ug/L	04/27/1995	464	240593
Toluene	104.8	101.4	3.3	50.0	ND	52.4	50.7	ug/L	04/27/1995	464	240593
Trichloroethene	106.4	103.8	2.5	50.0	ND	53.2	51.9	ug/L	04/27/1995	464	240593

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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 8240 (GCMS, Liquid)										
Benzene	108.0			54	50.0	50.0	ug/L	04/26/1995	gec	464
Chlorobenzene	100.0			50	50.0	50.0	ug/L	04/26/1995	gec	464
1,1-Dichloroethene	112.0			56	50.0	50.0	ug/L	04/26/1995	gec	464
Toluene	108.0			54	50.0	50.0	ug/L	04/26/1995	gec	464
Trichloroethene	104.0			52	50.0	50.0	ug/L	04/26/1995	gec	464
Toluene-d8 (SURR)	99.0			99	100	100	% Rec.	04/26/1995	gec	464
Bromofluorobenzene (SURR)	100.0			100	100	100	% Rec.	04/26/1995	gec	464
1,2-Dichloroethane-d4 (SURR)	95.0			95	100	100	% Rec.	04/26/1995	gec	464

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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: 950A-2D-H2 Log No: 6486
Cooler received on: 4/22/95 and checked on 4/26/95 by [Signature]
(signature)

- Were custody papers present?..... YES NO
- Were custody papers properly filled out?..... YES NO
- Were the custody papers signed?..... YES NO
- Was sufficient ice used?..... YES NO TEMP: 10.20C.
- Did all bottles arrive in good condition (unbroken)?..... YES NO
- Did bottle labels match COC?..... YES NO
- Were proper bottles used for analysis indicated?..... YES NO
- Correct preservatives used?..... YES NO
- VOA vials checked for headspace bubbles?..... YES NO
Note which voas (if any) had bubbles:*

Sample descriptor:	Number of vials:
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

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

List here all other jobs received in the same cooler:

Client Job #	NET log #
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____