



April 4, 1996

Susan Hugo
Alameda County Department of
Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **First Quarter 1996**
Shell Service Station
WIC #204-5508-5306
3420 San Pablo Avenue
Oakland, California
WA Job #81-0612-206

Dear Ms. Hugo:

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.

SEPARATE-PHASE HYDROCARBON REMOVAL SUMMARY	
<i>Pounds of Separate-Phase Hydrocarbons Removed This Quarter</i>	<i>Cumulative Pounds Removed</i>
0.09	19.88

First Quarter 1996 Activities:

- Blaine Tech Services (BTS) of San Jose, California measured ground water depths and collected ground water samples from the monitoring wells (Figures 1 and 2). BTS' report describing these activities and the analytic report for the ground water samples are included as Attachment A.
- Approximately 0.1 pounds of separate-phase hydrocarbons (SPH) were removed this quarter (Table 1). To date, approximately 19.9 pounds of SPH have been removed by skimmers and bailing from the site wells.
- Weiss Associates (WA) tabulated the depth to water and analytic data (Tables 2 and 3) and contoured ground water elevations (Figure 2).

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Anticipated Second Quarter 1996 Activities:

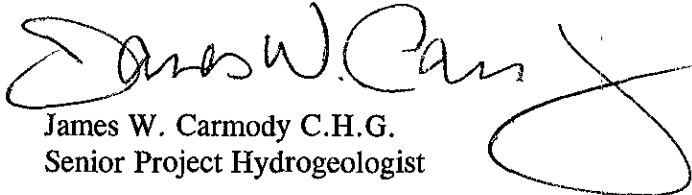
- WA will submit a report presenting the results of the second quarter 1996 ground water sampling and ground water depth measurements. The report will include tabulated chemical analytic results, SPH removal data and a ground water elevation contour map.
- SPH skimmers are installed in wells MW-2, MW-4 and MW-7. The skimmers will be purged of hydrocarbons quarterly until no SPH are measured in these wells. SPH volumes removed will be tabulated in subsequent quarterly status reports.
- Shell will proceed with evaluating the most appropriate future action at the site once your agency supplies us with data from the adjacent Thrifty service station, as agreed during our November 20, 1995 meeting with you.

Please call if you have any questions.

Sincerely,
Weiss Associates




Grady S. Glasser
Technical Assistant


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

Attachments: 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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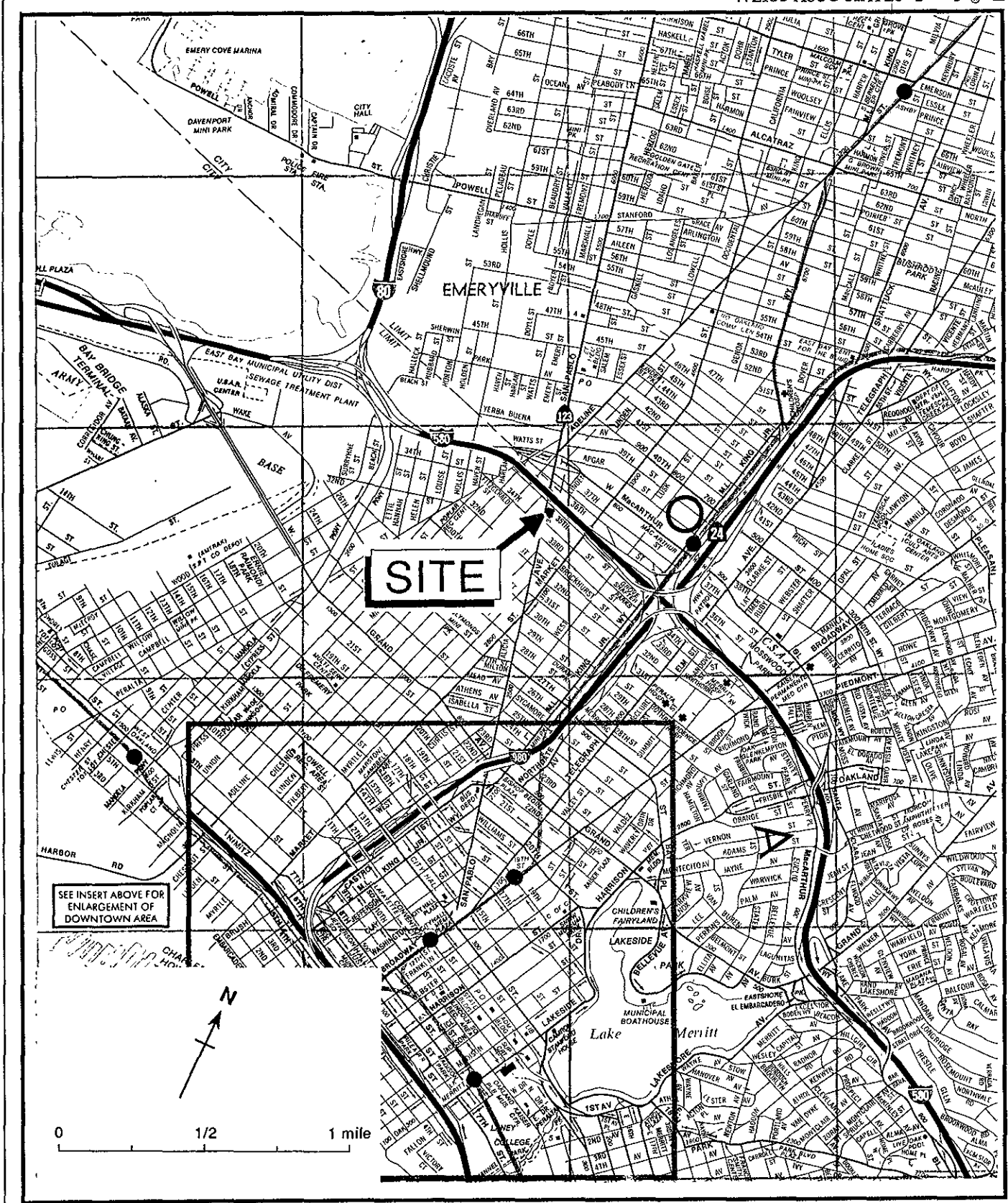


Figure 1. Site Location Map - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California

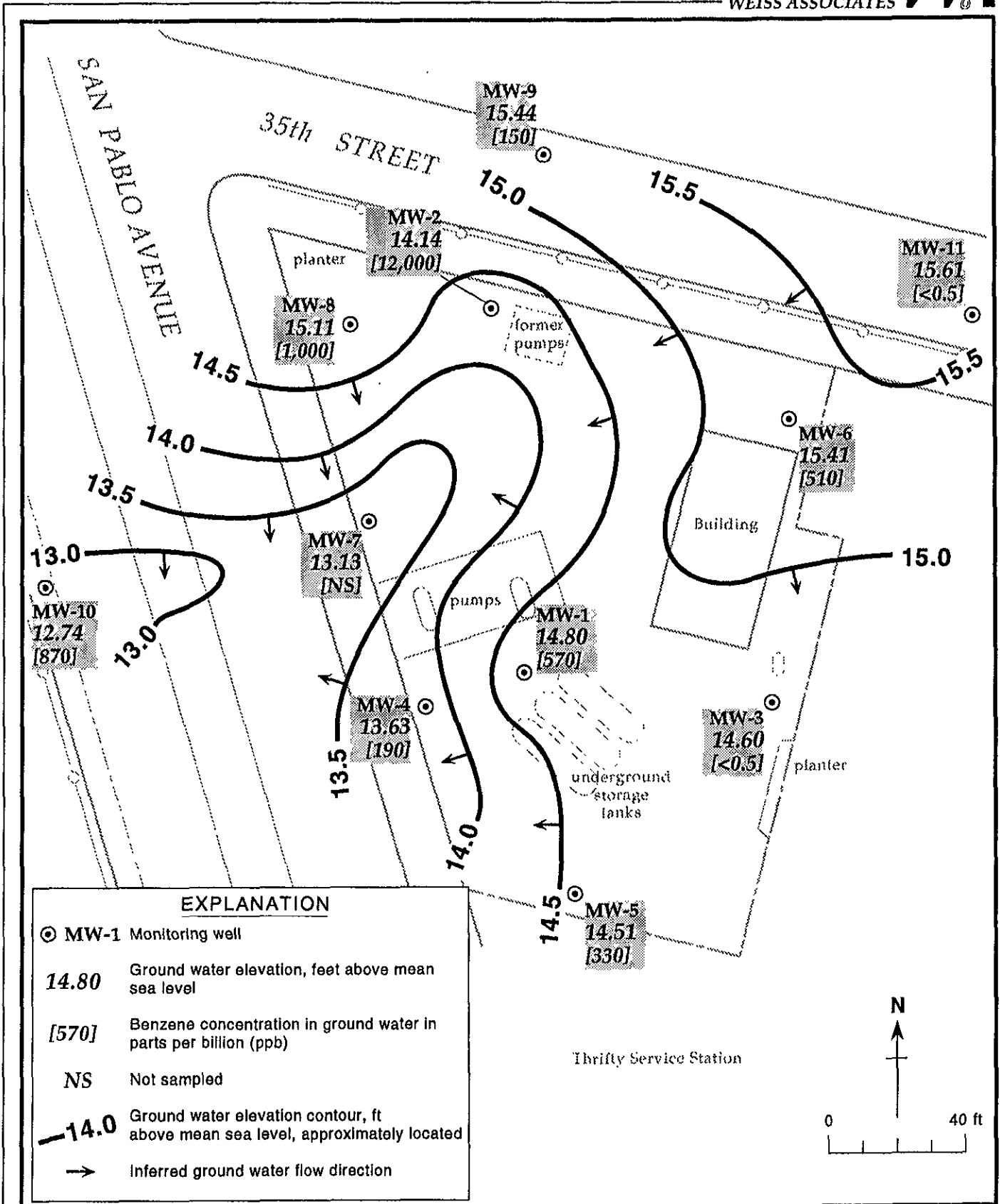


Figure 2. Monitoring Well Locations, Ground Water Elevation Contours, and Benzene Concentration in Ground Water - January 17, 1996 - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California

Table 1. Separate-Phase Hydrocarbon Removal - Shell Service Station WIC #204-5508-5306, 3420 San Pablo, Avenue, Oakland, California

Well ID	Date	Separate-Phase Hydrocarbon Thickness (ft)	Separate-Phase Hydrocarbons Removed (lbs)	Cumulative Separate-Phase Hydrocarbons Removed (lbs)
MW-1	10/23/91	0.01	---	---
	05/04/92	<0.01	---	---
	10/12/92	0.09	---	---
	01/12/93	0.02	3.12	3.12
	04/06/93	<0.01	0.78	3.90
	07/12/93	0.01	0.18	4.08
	10/13/93	0.01	0.06	4.14
	01/20/94	0.01	0.03	4.17
	04/03/94	0.02	0.12	4.29
MW-2	10/12/92	0.03	---	---
	01/12/93	0.01	1.56	1.56
	04/06/93	<0.01	0.78	2.34
	04/03/94	<0.01	0.03	2.37
MW-4	10/12/92	0.78	---	---
	01/12/93	1.0	---	---
	04/06/93	0.95	---	---
	07/12/93	0.03	6.36	6.36
	10/13/93	0.12	0.78	7.14
	01/20/94	0.02	0.03	7.17
	04/13/94	0.01	0.12	7.29
	10/27/94	0.03	0.79	8.08
	01/03/95	0.01	0.16	8.24
04/13/95	0.03	0.16	8.40	
MW-5	10/12/92	0.01	---	---
	01/12/93	<0.01	---	---
	10/13/93	0.03	---	---
	01/20/94	0.01	---	---
	04/13/94	0.01	0.03	0.06
MW-6	10/12/92	0.48	---	---
	01/12/93	<0.01	---	---
	10/13/93	0.2	---	---
	01/20/94	0.02	---	---
	04/13/94	0.01	0.03	0.03
	07/19/94	0.07	0.03	0.06
	10/27/94	0.11	1.43	1.49
	01/03/95	0.02	0.12	1.61
	04/13/95	0.02	0.13	1.74

Table 1. Separate-Phase Hydrocarbon Removal - Shell Service Station WIC #204-5508-5306, 3420 San Pablo, Avenue, Oakland, California (continued)

Well ID	Date	Separate-Phase Hydrocarbon Thickness (ft)	Separate-Phase Hydrocarbons Removed (lbs)	Cumulative Separate-Phase Hydrocarbons Removed (lbs)
MW-7	01/20/94	0.05	---	---
	04/13/94	0.16	0.66	0.66
	07/19/94	0.20	0.04	0.70
	10/27/94	0.04	1.11	1.81
	01/03/95	0.02	0.16	1.97
	04/13/95	0.02	0.16	2.13
	10/31/95	0.04	0.80	2.93
	01/17/96	0.04	0.09	3.02
Total Separate-Phase Hydrocarbons Removed				19.88

Table 2. Ground Water Elevations - Shell Service Station WIC #204-5508-5306,
3420 San Pablo Avenue, Oakland, California

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation (ft above msl) ^a
MW-1	08/06/91	21.28	10.86	---	10.43
	10/23/91		11.05	0.01	10.24
	01/28/92		10.84	---	10.44
	05/04/92		9.42	<0.01	11.86
	07/13/92		11.36	---	9.92
	10/12/92		13.14	0.09	8.21
	01/12/93		7.52	0.02	13.78
	04/06/93		7.13	<0.01	14.16
	07/12/93		11.02	0.01	10.27
	10/13/93		12.18	0.01	9.11 ^a
	01/20/94		9.18	0.01	12.10
	04/13/94		8.72	0.02	12.58
	07/19/94		8.76	---	12.52
	10/27/94		10.49	---	10.79
	01/03/95		6.15	---	15.13
	04/13/95		5.24	---	16.04
	06/30/95		7.24	---	14.04
	10/11/91		9.48	---	11.80
	01/17/96		6.48	---	14.80
MW-2	08/06/91	21.56	9.72	---	11.84
	10/23/91		10.03	---	11.53
	01/28/92		8.78	---	12.78
	05/04/92		7.58	---	13.98
	07/13/92		9.63	---	11.93
	10/12/92		11.66	0.03	9.92
	01/12/93		7.13	0.01	14.44
	04/06/93		6.40	<0.01	15.17
	07/12/93		8.75	---	12.81
	10/13/93		10.28	---	11.28
	01/20/94		---	---	---
	04/13/94		7.35	<0.01	14.22
	07/19/94		8.24	---	13.32
	10/27/94		10.26	---	13.32
	01/03/95		6.44	---	15.12
	04/13/95		5.89	---	15.67
	06/30/95		7.41	---	14.15
	10/11/95		8.02	---	13.54
	01/17/96		7.42	---	14.14
MW-3	08/06/91	21.78	11.18	---	10.60
	10/23/91		11.69	---	10.09
	01/28/92		9.99	---	11.79

Table 2. Ground Water Elevations - Shell Service Station WIC #204-5508-5306,
3420 San Pablo, Avenue, Oakland, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation (ft above msl) ^a
	05/04/92		9.46	---	12.32
	07/13/92		11.29	---	10.49
	10/12/92		13.10	---	8.68
	01/12/93		7.32	---	14.46
	04/06/93		7.44	---	14.34
	07/12/93		10.62	---	11.16
	10/13/93		12.05	---	9.73
	01/20/94		9.62	---	12.16
	04/13/94		9.15	---	12.63
	07/19/94		10.13	---	11.65
	10/27/94		11.66	---	10.12
	01/03/95		6.89	---	14.89
	04/13/95		6.79	---	14.99
	06/30/95		8.94	---	12.84
	10/11/95		10.62	---	11.16
	01/17/96		7.18	---	14.60
MW-4	08/06/91	20.31	10.57	---	9.74
	10/23/91		10.46	---	9.85
	01/28/92		9.54	---	10.77
	05/04/92		8.33	---	11.98
	07/13/92		9.87	---	10.44
	10/12/92		12.43	0.78	8.50
	01/12/93		7.12	1.0	13.99
	04/06/93		7.23	0.95	13.84
	07/12/93		10.08	0.03	10.25
	10/13/93		11.35	0.12	9.06
	01/20/94		9.06	0.02	11.26
	04/13/94		8.58	0.01	11.74
	07/19/94		9.71	---	10.60
	10/27/94		10.60	0.03	9.73
	01/03/95		5.49	0.01	14.83
	04/13/95		6.53	0.03	13.80
	06/30/95		9.57	---	10.74
	10/11/95		10.30	---	10.01
	01/17/96		6.68	---	13.63
MW-5	08/06/91	20.91	10.23	---	10.68
	10/23/91		10.89	---	10.02
	01/28/92		8.45	---	12.46
	05/04/92		8.05	---	12.86
	07/13/92		10.00	---	10.91
	10/12/92		11.83	0.01	9.09

Table 2. Ground Water Elevations - Shell Service Station WIC #204-5508-5306, 3420 San Pablo, Avenue, Oakland, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation (ft above msl) ^a
	01/12/93		6.10	<0.01	14.81
	04/06/93		6.18	---	14.73
	07/12/93		9.59	---	11.32
	10/13/93		10.80	0.03	10.13 ^a
	01/20/94		7.42	0.01	13.49
	04/13/94		7.05	0.01	13.87
	07/19/94		8.57	---	12.34
	10/27/94		10.14	---	10.77
	01/03/95		5.84	---	15.07
	04/13/95		5.28	---	15.63
	06/30/95		7.43	---	13.48
	10/11/95		8.90	---	12.01
	01/17/96		6.40	---	14.51
MW-6	08/06/91	22.32	10.61	---	11.71
	10/23/91		11.68	---	10.64
	01/28/92		8.90	---	13.42
	05/04/92		8.01	---	14.31
	07/13/92		10.77	---	11.55
	10/12/92		13.36	0.48	9.34
	01/12/93		6.40	<0.01	15.92
	04/06/93		5.93	---	16.39
	07/12/93		10.25	---	12.07
	10/13/93		12.28	0.2	10.20 ^a
	01/20/94		9.14	0.02	13.20
	04/13/94		7.67	0.01	14.66
	07/19/94		10.07	0.07	12.31
	10/27/94		11.84	0.11	10.57
	01/03/95		7.80	0.02	14.54
	04/13/95		5.77	0.02	16.57
	06/30/95		7.78	---	14.54
	10/11/95		10.06	---	12.26
	01/17/96		6.91	---	15.41
MW-7	08/06/91	20.36	8.00	---	12.36
	10/23/91		8.16	---	12.20
	01/28/92		7.11	---	13.25
	05/04/92		6.47	---	13.89
	07/13/92		7.73	---	12.63
	10/12/92		8.68	---	11.68
	01/12/93		6.26	---	14.10
	04/06/93		5.92	---	14.44
	07/12/93		7.27	---	13.09

Table 2. Ground Water Elevations - Shell Service Station WIC #204-5508-5306, 3420 San Pablo, Avenue, Oakland, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation (ft above msl) ^a
	10/13/93		9.40	---	10.96
	01/20/94		7.03	0.05	13.37
	04/13/94		6.56	0.16	13.93
	07/19/94		6.91	0.20	13.61
	10/27/94		8.28	0.04	12.11
	01/03/95		6.48	0.02	13.90
	04/13/95		6.54	0.02	13.84
	06/30/95		7.08	---	13.28
	10/11/95		7.88	0.04	12.51
	01/17/96		7.26	0.04	13.13
MW-8	08/06/91	20.95	9.60	---	11.35
	10/23/91		9.73	---	11.22
	01/28/92		7.72	---	13.23
	05/04/92		6.48	---	14.47
	07/13/92		8.55	---	12.40
	10/12/92		9.97	---	10.98
	01/12/93		6.94	---	14.01
	04/06/93		5.72	---	15.23
	07/12/93		7.65	---	13.30
	10/13/93		8.25	---	12.70
	01/20/94		7.25	---	13.70
	04/13/94		7.12	---	13.83
	07/19/94		7.43	---	13.52
	10/27/94		7.55	---	13.40
	01/03/95		6.04	---	14.91
	04/13/95		5.04	---	15.91
	06/30/95		5.72	---	15.23
	10/11/95		7.06	---	13.89
	01/17/96		5.84	---	15.11
MW-9	08/06/91	21.19	10.33		10.86
	10/23/91		11.13	---	10.06
	01/28/92		9.02	---	12.17
	05/04/92		7.67	---	13.52
	07/13/92		10.26	---	10.93
	10/12/92		12.19	---	9.0
	01/12/93 ^b		---	---	---
	04/06/93 ^b		---	---	---
	07/12/93 ^b		---	---	---
	10/13/92		11.17	---	10.02
	01/20/94		8.03	---	13.16
	04/13/94		7.81	---	13.38

Table 2. Ground Water Elevations - Shell Service Station WIC #204-5508-5306, 3420 San Pablo, Avenue, Oakland, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation (ft above msl) ^a
	07/19/94		8.96	---	12.23
	10/27/94		11.00	---	10.19
	01/03/95		6.60	---	14.59
	04/13/95		6.73	---	14.46
	06/30/95		7.32	---	13.87
	10/11/95		8.10	---	13.09
	01/17/96		5.75	---	15.44
MW-10	10/23/91	19.74	8.57	---	11.17
	01/28/92		7.60	---	12.14
	05/04/92		7.54	---	12.20
	07/13/92		8.59	---	11.15
	10/12/92		10.23	---	9.51
	01/12/93 ^b		---	---	---
	04/06/93		6.70	---	13.04
	07/12/93 ^b		8.05	---	11.69
	10/13/93		8.25	---	11.49
	01/20/94		7.20	---	12.54
	04/13/94		7.57	---	12.17
	07/19/94		8.18	---	11.56
	10/27/94		8.68	---	11.06
	01/03/95		6.86	---	12.88
	04/13/95		6.91	---	12.83
	06/30/95		7.61	---	12.13
	10/11/95		---	---	---
	01/17/96		7.00	---	12.74
MW-11	10/23/91	22.06	14.00	---	8.06
	01/28/92		8.74	---	3.32
	05/04/92		8.29	---	13.77
	07/13/92		10.50	---	11.56
	10/12/92		12.40	---	9.66
	01/12/93 ^b		---	---	---
	04/06/93 ^b		---	---	---
	07/12/93 ^b		---	---	---
	10/13/93		11.47	---	10.59
	01/20/94		9.09	---	12.97
	04/13/94		8.02	---	14.04
	07/19/94		9.82	---	12.24
	10/27/94		11.66	---	10.40
	01/03/95		6.15	---	15.91
	04/13/95		6.00	---	16.06

Table 2. Ground Water Elevations - Shell Service Station WIC #204-5508-5306,
3420 San Pablo, Avenue, Oakland, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation (ft above msl) ^a
	06/30/95		8.31	---	13.75
	10/11/95		10.30	---	11.76
	01/17/96		6.45	---	15.61

Notes:

- a = When separate-phase hydrocarbons are present ground water elevation is adjusted using the relation: Ground Water Elevation = Top-of-casing elevation - depth to water + (0.8 x hydrocarbon thickness).
- b = Well inaccessible, covered by construction debris.

Table 3. Analytic Results for Ground Water - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California

Well ID	Date Sampled	Depth to Water (ft)	parts per billion (µg/L)						
			TPH-G	B	E	T	X	MTBE	
MW-1	08/06/91 ^{SPH}	10.86	---	---	---	---	---	---	---
	10/23/91	11.05	32,000	2,700	550	360	3,700	---	
	01/28/92	10.84	14,000	1,000	450	106	1,600	---	
	05/05/92	9.42	98,000	11,000	3,500	1,200	18,000	---	
	07/13/92	11.36	11,000	1,100	740	130	1,300	---	
	10/12/92 ^{SPH}	13.14	---	---	---	---	---	---	
	01/12/93 ^{SPH}	7.52	---	---	---	---	---	---	
	04/06/93 ^{SPH}	7.13	---	---	---	---	---	---	
	07/12/93 ^{SPH}	11.02	---	---	---	---	---	---	
	10/13/93 ^{SPH}	12.18	---	---	---	---	---	---	
	01/20/94 ^{SPH}	9.18	---	---	---	---	---	---	
	04/13/94 ^{SPH}	8.72	---	---	---	---	---	---	
	07/19/94	8.76	17,000	420	530	140	1,300	---	
	10/27/94	10.49	23,000	1,200	990	130	960	---	
	01/03/95	6.15	31,000	610	1,200	160	5,000	---	
	04/13/95	5.24	20,000	340	680	42	2,900	---	
	06/30/95	7.24	16,000	450	460	62	1,200	---	
	10/11/95	9.48	8,400	660	510	47	850	8,000	
	10/13/95	---	7,400	730	490	54	1,100	8,200	
	01/17/96	6.48	24,000	570	820	110	2,900	15,000	
MW-2	08/06/91	9.72	50,000	15,000	2,700	1,400	13,000	---	
	10/23/91	10.03	120,000	11,000	3,500	1,400	19,000	---	
	01/28/92	8.78	49,000	7,400	1,800	800	8,300	---	
	05/05/92	7.58	52,000	12,000	2,200	1,100	12,000	---	
	07/13/92	9.63	47,000	15,000	4,500	2,400	16,000	---	
	10/12/92 ^{SPH}	11.66	---	---	---	---	---	---	
	01/12/93 ^{SPH}	7.13	---	---	---	---	---	---	
	04/06/93 ^{SPH}	6.40	---	---	---	---	---	---	
	07/12/93	8.75	59,000	12,000	2,400	950	11,000	---	
	10/13/93	10.28	54,000	14,000	3,700	1,200	22,000	---	
	01/20/94	---	---	---	---	---	---	---	
	04/13/94	7.35	79,000	9,400	2,100	740	12,000	---	
	04/13/94 ^{dup}	7.35	110,000	11,000	2,400	710	13,000	---	
	07/19/94	8.24	63,000	13,000	1,900	810	13,000	---	
	07/19/94 ^{dup}	8.24	12,000	12,000	340	140	12,000	---	
	10/27/94	10.26	64,000	8,800	2,100	480	10,000	---	
	01/03/95	6.44	67,000	9,800	2,800	720	11,000	---	
	01/03/95 ^{dup}	6.44	58,000	9,700	2,700	620	12,000	---	
	04/13/95	5.89	83,000	10,000	2,600	490	13,000	---	



Table 3. Analytic Results for Ground Water - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	parts per billion (µg/L)					MTBE
				B	E	T	X		
	04/13/95 ^{dup}	5.89	74,000	9,500	2,100	350	11,000	---	
	06/30/95	7.41	65,000	12,000	2,400	1,800	12,000	---	
	10/11/95	8.02	68,000	8,800	3,000	840	13,000	1,400	
	01/17/96	7.42	79,000	12,000	2,700	640	14,000	2,200	
	01/17/96 ^{dup}	7.42	78,000	12,000	2,500	920	12,000	2,500	
MW-3	08/06/91	11.18	430	8	4	1	15	---	
	10/23/91	11.69	390	2.1	0.48	<0.3	2	---	
	01/28/92	9.99	190	<0.5	<0.5	<0.5	<0.5	---	
	05/04/92	9.46	190	<1	<1	<1	0.71	---	
	07/20/92	11.29	200 ^a	<0.5	<0.5	<0.5	<0.5	---	
	10/12/92	13.10	180 ^a	<0.5	<0.5	<0.5	<0.5	---	
	01/12/93	7.32	180	<0.5	0.9	2.3	5.6	---	
	01/12/93 ^{dup}	7.32	260	<0.5	<0.5	<0.5	<0.5	---	
	04/06/93	7.44	280	<0.5	<0.5	<0.5	<0.5	---	
	07/12/93	10.62	310 ^a	<0.5	<0.5	<0.5	<0.5	---	
	10/13/93	12.05	150	<0.5	<0.5	<0.5	<0.5	---	
	01/20/94	9.62	180	<0.5	<0.5	<0.5	<0.5	---	
	04/13/94	9.15	270	<0.5	<0.5	<0.5	<0.5	---	
	07/19/94	10.13	190*	<0.5	<0.5	<0.5	<0.5	---	
	10/27/94	11.66	160*	<0.5	<0.5	<0.5	<0.5	---	
	01/03/95	6.89	100*	<0.5	<0.5	<0.5	<0.5	---	
	04/13/95	6.79	120*	<0.5	<0.5	<0.5	<0.5	---	
	06/30/95	8.94	180*	<0.5	<0.5	<0.5	<0.5	---	
	10/11/95	10.62	150	2.2	<0.5	<0.5	<0.5	2.3	
	01/17/96	7.18	120	<0.5	<0.5	2.3	0.7	7.8	
MW-4	08/06/91	10.57	1,300	28	68	18	150	---	
	10/23/91	10.46	1,900	97	38	6.1	77	---	
	01/28/92	9.54	200	7.6	3	<0.5	3.3	---	
	05/04/92	8.33	690	98	13	3	<1	---	
	07/13/92	9.87	1,500	140	17	2.9	12	---	
	07/13/92 ^{dup}	9.87	870	95	10	1.9	7.1	---	
	10/12/92 ^{SPH}	12.43	---	---	---	---	---	---	
	01/12/93 ^{SPH}	7.12	---	---	---	---	---	---	
	04/06/93 ^{SPH}	7.23	---	---	---	---	---	---	
	07/12/93 ^{SPH}	10.08	---	---	---	---	---	---	
	10/13/93 ^{SPH}	11.35	---	---	---	---	---	---	
	01/20/94 ^{SPH}	9.06	---	---	---	---	---	---	

Table 3. Analytic Results for Ground Water - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	parts per billion (µg/L)						
			TPH-G	B	E	T	X	MTBE	
	04/13/84 ^{SPH}	8.58	---	---	---	---	---	---	
	07/18/94	9.71	12,000	230	230	43	660	---	
	10/27/94 ^{SPH}	10.60	---	---	---	---	---	---	
	01/03/95 ^{SPH}	5.49	---	---	---	---	---	---	
	04/13/95 ^{SPH}	6.53	---	---	---	---	---	---	
	06/30/95	9.57	7,400	140	160	<0.5	350	---	
	10/11/95	10.30	3,000	29	100	10	82	9,700	
	01/17/96	6.68	9,700	190	190	<0.5	410	4,500	
MW-5	08/06/91	10.23	9,100	210	240	27	660	---	
	10/23/91	10.89	12,000	92	230	18	450	---	
	01/28/92	8.45	3,300	130	180	10	220	---	
	05/04/92	8.05	3,900	95	260	<12.5	120	---	
	07/13/92	10.00	4,100	180	250	12	73	---	
	10/12/92 ^{SPH}	11.83	---	---	---	---	---	---	
	01/12/93 ^{SPH}	6.10	---	---	---	---	---	---	
	04/06/93	6.18	6,200	71	53	<0.5	150	---	
	07/12/93	9.59	3,400	130	170	<0.5	130	---	
	10/13/93 ^{SPH}	10.80	---	---	---	---	---	---	
	01/20/94 ^{SPH}	7.42	---	---	---	---	---	---	
	04/13/94 ^{SPH}	7.05	---	---	---	---	---	---	
	07/19/94	8.57	11,000	180	180	13	260	---	
	10/27/94	10.14	6,900	82	210	<5	110	---	
	01/03/95	5.84	12,000	110	790	46	510	---	
	04/13/95	5.28	10,000	61	330	<20	140	---	
	06/30/95	7.43	12,000	180	440	8.6	340	---	
	10/11/95	8.90	11,000	<50	440	<50	340	5,100	
	10/11/95 ^{dup}	8.90	11,000	95	440	<50	330	660	
	01/17/96	6.40	82,000	330	960	120	1,400	820	
MW-6	08/06/91	10.61	28,000	1,400	1,300	200	4,200	---	
	10/23/91	11.68	53,000	1,400	1,800	230	6,700	---	
	01/28/92	8.90	87,000	1,200	2,000	470	6,600	---	
	05/05/92	8.01	230,000	<500	3,200	<500	11,000	---	
	07/13/92	10.77	2,700,000	<2,500	14,000	3,500	36,000	---	
	10/12/92 ^{SPH}	8.68	---	---	---	---	---	---	
	01/12/93 ^{SPH}	6.40	---	---	---	---	---	---	
	04/06/93	5.93	320,000	2,500	5,400	980	14,000	---	
	07/12/93	10.25	31,000	1,100	1,700	150	4,500	---	

Table 3. Analytic Results for Ground Water - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California
(continued)

Well ID	Date Sampled	Depth to Water (ft)	parts per billion (µg/L)						MTBE
			TPH-G	B	E	T	X		
	07/12/93 ^{dup}	10.25	25,000	1,200	2,000	270	4,800	---	
	10/13/93 ^{SPH}	12.28	---	---	---	---	---	---	
	01/20/94 ^{SPH}	9.14	---	---	---	---	---	---	
	04/13/94 ^{SPH}	7.67	---	---	---	---	---	---	
	07/19/94 ^{SPH}	10.07	---	---	---	---	---	---	
	10/27/94 ^{SPH}	11.84	---	---	---	---	---	---	
	01/03/95 ^{SPH}	7.80	---	---	---	---	---	---	
	04/13/95 ^{SPH}	5.77	---	---	---	---	---	---	
	06/30/95	7.78	1,100,000	6,600	12,000	6,100	29,000	---	
	10/11/95	10.06	30,000	130	1,400	<50	4,200	710	
	01/17/96	6.91	450,000	510	2,700	1,400	11,000	630	
MW-7	08/06/91	8.00	13,000	4,300	770	76	730	---	
	10/23/91	8.16	18,000	3,200	660	31	770	---	
	01/28/92	7.11	5,000	1,200	220	<10	54	---	
	05/05/92	6.47	9,500	3,100	620	72	880	---	
	07/13/92	7.73	20,000	4,200	1,600	130	1,100	---	
	10/12/92	9.97	16,000	2,500	560	<50	170	---	
	01/12/93	6.26	15,000	2,300	690	<0.5	440	---	
	04/06/93	5.92	26,000	5,400	1,200	310	3,000	---	
	04/06/93 ^{dup}	5.92	21,000	5,200	1,200	180	3,000	---	
	07/12/93	7.27	10,000 ^a	3,000	510	100	530	---	
	10/13/93	9.40	59,000	13,000	4,400	4,400	20,000	---	
	01/20/94 ^{SPH}	7.03	---	---	---	---	---	---	
	04/13/94 ^{SPH}	6.56	---	---	---	---	---	---	
	07/19/94 ^{SPH}	6.91	---	---	---	---	---	---	
	10/27/94 ^{SPH}	8.28	---	---	---	---	---	---	
	01/03/95 ^{SPH}	6.48	---	---	---	---	---	---	
	04/13/95 ^{SPH}	6.54	---	---	---	---	---	---	
	06/30/95	7.08	900,000	11,000	14,000	8,500	52,000	---	
	10/11/95 ^{SPH}	7.88	---	---	---	---	---	---	
	01/17/96 ^{SPH}	7.26	---	---	---	---	---	---	
MW-8	08/06/91	9.60	32,000	3,700	1,400	1,100	6,100	---	
	10/23/91	9.73	63,000	4,800	1,300	1,300	6,900	---	
	01/28/92	7.72	32,000	1,900	1,400	750	6,300	---	
	05/05/92	6.48	180,000	2,200	2,700	2,000	13,000	---	
	07/13/92	8.55	56,000	4,500	2,700	1,500	9,100	---	
	10/12/92	9.97	34,000	2,400	1,400	550	6,400	---	

Table 3. Analytic Results for Ground Water - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	parts per billion (µg/L)						MTBE
			TPH-G	B	E	T	X		
	10/12/92 ^{dup}	9.97	34,000	3,100	1,500	700	7,200	---	
	01/12/93	6.94	110,000	2,100	2,400	1,200	12,000	---	
	04/06/93	5.72	38,000	2,500	1,100	840	4,900	---	
	07/12/93	7.65	27,000	2,800	1,200	990	5,300	---	
	10/13/93	8.25	32,000	3,300	1,600	1,300	8,400	---	
	10/13/93 ^{dup}	8.25	47,000	3,200	1,600	1,300	8,500	---	
	01/20/94	7.25	78,000	1,900	1,300	670	6,600	---	
	01/20/94 ^{dup}	7.25	60,000	1,700	1,100	680	5,500	---	
	04/13/94	7.12	41,000	1,300	1,200	720	6,000	---	
	07/19/94	7.43	140,000	1,800	2,000	1,400	9,000	---	
	10/27/94	7.55	32,000	1,200	1,200	670	5,700	---	
	10/27/94 ^{dup}	7.55	42,000	1,100	1,100	650	5,700	---	
	01/03/95	6.04	38,000	1,000	1,500	700	7,500	---	
	04/13/95	5.04	31,000	1,200	1,000	570	5,300	---	
	06/30/95	5.72	110,000	2,000	2,000	1,500	9,700	---	
	10/11/95	7.06	36,000	170	1,300	60	6,300	510	
	01/17/96	5.84	38,000	1,000	1,100	520	6,200	950	
MW-9	08/06/91	10.33	11,000	1,700	520	95	1,400	---	
	10/23/91	11.13	20,000	1,000	<0.3	47	940	---	
	01/28/92	9.02	3,500	120	280	<10	36	---	
	05/04/92	7.67	7,700	1,200	380	<50	630	---	
	07/20/92	10.26	11,000	910	220	<50	1,200	---	
	10/12/92	12.19	2,100	340	77	15	44	---	
	01/12/93 ^b	---	---	---	---	---	---	---	
	04/06/93 ^b	---	---	---	---	---	---	---	
	07/12/93 ^b	---	---	---	---	---	---	---	
	10/13/93	11.17	2,900	140	<5	<5	120	---	
	01/20/94	8.03	1,700	380	150	6.9	400	---	
	04/13/94	7.81	6,000	1,000	450	<20	420	---	
	07/19/94	8.96	12,000	1,400	740	<5	1,200	---	
	10/27/94	11.00	10,000	1,200	280	160	860	---	
	01/03/95	6.60	4,400	680	180	7.7	370	---	
	04/13/95	6.73	1,700	270	69	<10	170	---	
	06/30/95	7.32	14,000	2,200	900	18	2,600	---	
	06/30/95 ^{dup}	7.32	13,000	2,100	870	17	2,500	---	
	10/11/95	8.10	9,600	35	360	12	980	590	
	01/17/96	5.75	2,800	150	54	7.4	130	170	

Table 3. Analytic Results for Ground Water - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	parts per billion (µg/L)						MTBE
			TPH-G	B	E	T	X		
MW-10	10/23/91	8.57	27,000	1,600	1,800	110	510	---	
	01/28/92	7.60	3,800	360	170	14	39	---	
	05/04/92	7.54	3,000	360	140	<12.5	26	---	
	07/20/92	8.59	15,000	400	180	<25	67	---	
	10/12/92	10.23	16,000	320	360	<50	100	---	
	01/12/93 ^b	---	---	---	---	---	---	---	
	04/06/93	6.70	14,000	370	880	<0.5	210	---	
	07/12/93	8.05	10,000	440	890	58	220	---	
	10/13/93	8.25	15,000	1,000	810	51	170	---	
	01/20/94	7.20	12,000	820	1,100	56	350	---	
	04/13/94	7.57	18,000	760	700	36	130	---	
	07/19/94	8.18	24,000	400	800	2.3	22	---	
	10/27/94	8.68	11,000	360	310	43	89	---	
	01/03/95	6.86	17,000	770	690	38	160	---	
	04/13/95	6.91	9,900	650	280	16	40	---	
	06/30/95	7.61	12,000	750	480	20	130	---	
	01/17/96	7.00	17,000	870	310	93	260	830	
MW-11	10/23/91	8.06	140	<12	0.37	<0.3	0.56	---	
	01/28/92	13.32	<50	<0.5	<0.5	<0.5	<0.5	---	
	05/04/92	13.77	<50	<0.5	<0.5	<0.5	<0.5	---	
	07/13/92	11.56	140 ^b	<0.5	<0.5	<0.5	<0.5	---	
	10/12/92	12.40	75 ^b	<0.5	<0.5	<0.5	<0.5	---	
	01/12/93 ^b	---	---	---	---	---	---	---	
	04/06/93 ^b	---	---	---	---	---	---	---	
	07/12/93 ^b	---	---	---	---	---	---	---	
	10/13/93	11.47	<50	<0.5	<0.5	<0.5	<0.5	---	
	01/20/94	9.09	<50	<0.5	<0.5	<0.5	<0.5	---	
	04/13/94	8.02	<50	<0.5	<0.5	<0.5	<0.5	---	
	07/19/94	9.82	50	<0.5	<0.5	<0.5	<0.5	---	
	10/27/94	11.66	60*	<0.5	<0.5	<0.5	<0.5	---	
	01/03/95	6.15	<50	<0.5	<0.5	<0.5	<0.5	---	
	04/13/95	6.00	<50	<0.5	<0.5	<0.5	<0.5	---	
	06/30/95	8.31	70	<0.5	<0.5	<0.5	<0.5	---	
	10/11/95	10.30	60	53	<0.5	<0.5	0.8	3.0	
01/17/96	6.45	<50	<0.5	<0.5	<0.5	<0.5	<2		

Table 3. Analytic Results for Ground Water - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	parts per billion (µg/L)						MTBE
			TPH-G	B	E	T	X		
Bailer Blank	07/13/92		<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
	07/20/92		<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
	10/12/92		<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
	04/13/94		<50	<0.5	<0.5	0.67	<0.5	<0.5	---
	07/19/94		<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
	10/27/94		<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
	01/03/95		<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
	04/13/95		<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
	06/30/95		<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
	10/11/95		<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	01/17/96		<50	<0.5	<0.5	<0.5	<0.5	<0.5	<2
Trip Blank	01/28/92		<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
	05/05/92		<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
	07/13/92		<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
	07/20/92		<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
	10/12/92		<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
	01/12/93		<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
	04/06/93		<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
	07/12/93		<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
	10/13/93		<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
	01/20/94		<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
	04/13/94		<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
	07/19/94		<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
	10/27/94		<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
	01/03/95		<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
	04/13/95		<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
	06/30/95		<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
	10/11/95		<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
DTSC MCLs			NE	1	680	100 ^c	1,750		

Table 3. Analytical Results for Ground Water - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California
(continued)

Abbreviations:

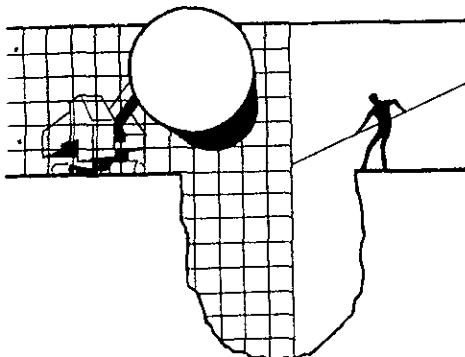
TPH-G = Total petroleum hydrocarbons as gasoline by Modified EPA Method 8015
B = Benzene by EPA Method 8020
E = Ethylbenzene by EPA Method 8020
T = Toluene by EPA Method 8020
X = Xylenes by EPA Method 8020
NE = Not established
DTSC MCLs = California Department of Toxic Substances Control maximum
contaminant levels for drinking water
--- = Not analyzed
<n = Not detected at detection limits of n ppb
dup = Duplicate sample
SPH = Not sampled, separate-phase hydrocarbons detected in well

Notes:

a = Concentration reported as gasoline is due to the presence of a discrete hydrocarbon peak that is not indicative of gasoline
b = Not sampled. Well inaccessible
c = DTSC recommended action level; MCL not established
* = The result for gasoline is an unknown hydrocarbon which consists of a single peak as confirmed by NET Laboratory

ATTACHMENT A

GROUND WATER MONITORING REPORT AND ANALYTIC REPORT



BLAINE TECH SERVICES INC.

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

February 7, 1996

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

Attn: R. Jeff Granberry

Shell WIC #204-5508-5306
3420 San Pablo Avenue
Oakland, California

1st Quarter 1996

Quarterly Groundwater Monitoring Report 960117-A-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 94608-2411
Attn: Grady Glasser

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

TABLE OF WELL GAUGING DATA

WELL I.D.	DATA COLLECTION DATE	MEASUREMENT REFERENCED TO	QUALITATIVE OBSERVATIONS (sheen)	DEPTH TO FIRST IMMISCIBLES LIQUID (FPZ) (feet)	THICKNESS OF IMMISCIBLES LIQUID ZONE (feet)	VOLUME OF IMMISCIBLES REMOVED (ml)	DEPTH TO WATER (feet)	DEPTH TO WELL BOTTOM (feet)
MW-1	1/17/96	TOC	—	NONE	—	—	6.48	25.00
MW-2 *	1/17/96	TOC	—	NONE	—	—	7.42	19.22
MW-3	1/17/96	TOC	—	NONE	—	—	7.18	27.47
MW-4	1/17/96	TOC	ODOR	NONE	—	—	6.68	25.32
MW-5	1/17/96	TOC	SHEEN/ODOR	—	—	—	6.40	24.86
MW-6	1/17/96	TOC	SHEEN/ODOR	—	—	—	6.91	19.90
MW-7	1/17/96	TOC	FREE PRODUCT	7.22	0.04	50	7.26	—
MW-8	1/17/96	TOC	ODOR	NONE	—	—	5.84	19.94
MW-9	1/17/96	TOC	—	NONE	—	—	5.75	19.72
MW-10	1/17/96	TOC	—	NONE	—	—	7.00	18.80
MW-11	1/17/96	TOC	—	NONE	—	—	6.45	18.88

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



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: 960117-AZ

#9973

Date: 1.17.96

Page 1 of 2

Silo Address: 3420 San Pablo Ave. Oakland

WIC#: 204-5506-5306

Shell Engineer: Don Kirk R. Jeff Gronberg
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: RANDY VALENTINE

Printed Name:

Analysis Required

LAB: NET

CHECK ONE (1) BOX ONLY	CI/DI	TURN AROUND TIME
Quality Monitoring <input checked="" type="checkbox"/> 6441		24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/> 6441		48 hours <input type="checkbox"/>
Soil Classfy/Disposal <input type="checkbox"/> 6442		16 days <input checked="" type="checkbox"/> (Normal)
Water Classfy/Disposal <input type="checkbox"/> 6443		Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/> 6452		
Water Rem. or Sys. O & M <input type="checkbox"/> 6453		
Other <input type="checkbox"/>		

NOTE: Hasty Lab as soon as Possible of 24/48 hrs. TAT.

Sample ID	Date	TIME Stage	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	TDS	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/COMMENTS
MW1	1/17	1325		X		3						X							
MW2	1/17	1530		X		3						X							
MW3	1/17	1255		X		3						X							
MW4	1/17	1310		X		3						X							
MW5	1/16	1400		X		3						X							
MW6	1/17	1445		X		3						X							
MW8	1/17	1510		X		4						X	X						
MW9	1/17	1340		X		3						X							

CUSTODY SEALED

Date: 1/16/96 Time: 1530 Initials: RS
SEAL INTACT? Yes No Initials: SA

Relinquished By (Signature): <u>Randy Valentine</u>	Printed Name: <u>RANDY VALENTINE</u>	Date: <u>1-16</u>	Received (Signature): <u>P. Smart</u>	Printed Name: <u>P. Smart</u>	Date: <u>1-16-96</u>
Relinquished By (Signature): <u>P. Smart</u>	Printed Name: <u>P. Smart</u>	Date: <u>1-18-96</u>	Received (Signature): <u>M. Sullivan</u>	Printed Name: <u>PAM GREENE</u>	Time: <u>1007</u>
Relinquished By (Signature):	Printed Name:	Date:	Received (Signature):	Printed Name:	Date: <u>1-19-96</u>
		Time:			Time: <u>08:00</u>

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

NIA'NR



SHELL OIL COMPANY
 RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: 960117-A2

Date: 1-17-96

Page 2 of 2

Site Address: 3420 San Pablo Ave. Oakland

WIC#: 204-5506-5306

Shell Engineer: Don Kirk R. Jeff Cranberry
 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: RANDY VALENTINE

Printed Name:

Analysis Required

LAB: NET

CHECK ONE (1) BOX ONLY	CI/DI	TURN AROUND TIME
Quantity Monitoring <input checked="" type="checkbox"/>	6441	24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	6441	48 hours <input type="checkbox"/>
Soil Classfy/Diposal <input type="checkbox"/>	6442	15 days <input checked="" type="checkbox"/> (Normal)
Water Classfy/Diposal <input type="checkbox"/>	6443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	6452	
Water Rem. or Sys. O & M <input type="checkbox"/>	6463	
Other <input type="checkbox"/>		

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

Sample ID	Date	TIME	Soil	Water	Air	No. of Conts.
MW10	2/17	1420		X		4
MW11	/	1230		X		3
EB	/	1235		X		3
DUP	/	↓		X		3

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	TDS	Asbestos	Container Size	Preparation Used	Composite Y/N
					X	X				
					X					
					X					
					X					

MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS

CUSTODY SEALED
 Date 1/18/96 Time 1530 Initials CS
SEAL INTACT?
 Yes No Initials [Signature]

Relinquished By (signature): <u>[Signature]</u>	Printed Name: <u>RANDY VALENTINE</u>	Date: <u>1-18</u>	Received (signature): <u>[Signature]</u>	Printed Name: <u>P. Smart</u>	Date: <u>1-18-96</u>
Relinquished By (signature): <u>[Signature]</u>	Printed Name: <u>P. Smart</u>	Date: <u>1-18-96</u>	Received (signature): <u>[Signature]</u>	Printed Name: <u>PAM GREENE</u>	Date: <u>1-19-96</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

VIA: NCS



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: 01/31/1996
NET Client Acct. No: 1821
NET Job No: 96.00228
Received: 01/19/1996

Client Reference Information

Shell 3420 San Pablo Ave., Oakland, CA/960117-A2

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. Results apply only to the samples analyzed. All positive results have been confirmed as required. Reproduction of this report is permitted only in its entirety. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel free to call me at (707) 541-2305.

Submitted by:

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

Ginger Brinlee
Project Coordinator

Enclosure(s)





Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 96.00228

Date: 01/31/1996
ELAP Cert: 1386
Page: 2

Ref: Shell 3420 San Pablo Ave., Oakland, CA/960117-A2

SAMPLE DESCRIPTION: MW1
Date Taken: 01/17/1996
Time Taken: 13:25
NET Sample No: 259126

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch No.
5030/8015-M/8020 Shell+MTBE								
DILUTION FACTOR*	100						01/25/1996	3505
Purgeable TPH	24,000		5,000	ug/L	8015		01/25/1996	3505
Carbon Range: C6 to C12	--				8015		01/25/1996	3505
8020 (GC, Liquid)	--				8020		01/25/1996	3505
Benzene	570		50	ug/L	8020		01/25/1996	3505
Toluene	110		50	ug/L	8020		01/25/1996	3505
Ethylbenzene	820		50	ug/L	8020		01/25/1996	3505
Xylenes (Total)	2,900		50	ug/L	8020		01/25/1996	3505
SURROGATE RESULTS								
Bromofluorobenzene (SURR)	99			% Rec.	8020		01/25/1996	3505

SAMPLE DESCRIPTION: MW2
Date Taken: 01/17/1996
Time Taken: 15:30
NET Sample No: 259127

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch No.
5030/8015-M/8020 Shell+MTBE								
DILUTION FACTOR*	100						01/25/1996	3505
Purgeable TPH	79,000		5,000	ug/L	8015		01/25/1996	3505
Carbon Range: C6 to C12	--				8015		01/25/1996	3505
8020 (GC, Liquid)	--				8020		01/25/1996	3505
Benzene	12,000	FI	500	ug/L	8020		01/26/1996	3507
Toluene	640		50	ug/L	8020		01/25/1996	3505
Ethylbenzene	2,700		50	ug/L	8020		01/25/1996	3505
Xylenes (Total)	14,000		50	ug/L	8020		01/25/1996	3505
SURROGATE RESULTS								
Bromofluorobenzene (SURR)	106			% Rec.	8020		01/25/1996	3505

FI : Compound quantitated at a 1000X dilution factor.

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: 96.00228

Date: 01/31/1996
ELAP Cert: 1386
Page: 3

Ref: Shell 3420 San Pablo Ave., Oakland, CA/960117-A2

SAMPLE DESCRIPTION: MW3

Date Taken: 01/17/1996
Time Taken: 12:55
NET Sample No: 259128

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch
5030/8015-M/8020 Shell+MTBE								
DILUTION FACTOR*	1						01/25/1996	3505
Purgeable TPH	120		50	ug/L	8015		01/25/1996	3505
Carbon Range: C6 to C12	--				8015		01/25/1996	3505
8020 (GC, Liquid)	--				8020		01/25/1996	3505
Benzene	ND		0.5	ug/L	8020		01/25/1996	3505
Toluene	2.3		0.5	ug/L	8020		01/25/1996	3505
Ethylbenzene	ND		0.5	ug/L	8020		01/25/1996	3505
Xylenes (Total)	0.7		0.5	ug/L	8020		01/25/1996	3505
SURROGATE RESULTS								
Bromofluorobenzene (SURR)	98			% Rec.	8020		01/25/1996	3505

SAMPLE DESCRIPTION: MW4

Date Taken: 01/17/1996
Time Taken: 13:10
NET Sample No: 259129

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch
5030/8015-M/8020 Shell+MTBE								
DILUTION FACTOR*	100						01/25/1996	3505
Purgeable TPH	9,700		5,000	ug/L	8015		01/25/1996	3505
Carbon Range: C6 to C12	--				8015		01/25/1996	3505
8020 (GC, Liquid)	--				8020		01/25/1996	3505
Benzene	190		50	ug/L	8020		01/25/1996	3505
Toluene	ND		50	ug/L	8020		01/25/1996	3505
Ethylbenzene	190		50	ug/L	8020		01/25/1996	3505
Xylenes (Total)	410		50	ug/L	8020		01/25/1996	3505
SURROGATE RESULTS								
Bromofluorobenzene (SURR)	96			% Rec.	8020		01/25/1996	3505

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: 96.00228

Date: 01/31/1996
ELAP Cert: 1386
Page: 4

Ref: Shell 3420 San Pablo Ave., Oakland, CA/960117-A2

SAMPLE DESCRIPTION: MW5
Date Taken: 01/17/1996
Time Taken: 14:00
NET Sample No: 259130

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch No.
5030/8015-M/8020 Shell+MTBE								
DILUTION FACTOR*	100						01/25/1996	3505
Purgeable TPH	82,000		5,000	ug/L	8015		01/25/1996	3505
Carbon Range: C6 to C12	--				8015		01/25/1996	3505
8020 (GC, Liquid)	--				8020		01/25/1996	3505
Benzene	330		50	ug/L	8020		01/25/1996	3505
Toluene	120		50	ug/L	8020		01/25/1996	3505
Ethylbenzene	960		50	ug/L	8020		01/25/1996	3505
Xylenes (Total)	1,400		50	ug/L	8020		01/25/1996	3505
SURROGATE RESULTS								
Bromofluorobenzene (SURR)	111			% Rec.	8020		01/25/1996	3505

SAMPLE DESCRIPTION: MW6
Date Taken: 01/17/1996
Time Taken: 14:45
NET Sample No: 259131

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch No.
5030/8015-M/8020 Shell+MTBE								
DILUTION FACTOR*	100						01/26/1996	3507
Purgeable TPH	450,000	FI	50,000	ug/L	8015		01/25/1996	3505
Carbon Range: C6 to C12	--				8015		01/25/1996	3505
8020 (GC, Liquid)	--				8020		01/25/1996	3505
Benzene	510		50	ug/L	8020		01/26/1996	3507
Toluene	1,400	FI	500	ug/L	8020		01/25/1996	3505
Ethylbenzene	2,700	FI	500	ug/L	8020		01/25/1996	3505
Xylenes (Total)	11,000	FI	500	ug/L	8020		01/25/1996	3505
SURROGATE RESULTS								
Bromofluorobenzene (SURR)	104			% Rec.	8020		01/25/1996	3505

FI : Compound quantitated at a 1000X dilution factor.

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: 96.00228

Date: 01/31/1996
ELAP Cert: 1386
Page: 5

Ref: Shell 3420 San Pablo Ave., Oakland, CA/960117-A2

SAMPLE DESCRIPTION: MW8
Date Taken: 01/17/1996
Time Taken: 15:10
NET Sample No: 259132

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
Tot. Dissolved Solids (TFR)	610,000		10,000	ug/L	160.1		01/23/1996	652
5030/8015-M/8020 Shell+MTBE								
DILUTION FACTOR*	100						01/26/1996	3507
Purgeable TPH	38,000		5,000	ug/L	8015		01/26/1996	3507
Carbon Range: C6 to C12	--				8015		01/26/1996	3507
8020 (GC, Liquid)	--				8020		01/26/1996	3507
Benzene	1,000		50	ug/L	8020		01/26/1996	3507
Toluene	520		50	ug/L	8020		01/26/1996	3507
Ethylbenzene	1,100		50	ug/L	8020		01/26/1996	3507
Xylenes (Total)	6,200		50	ug/L	8020		01/26/1996	3507
SURROGATE RESULTS								
Bromofluorobenzene (SURR)	102			% Rec.	8020		01/26/1996	3507

SAMPLE DESCRIPTION: MW9
Date Taken: 01/17/1996
Time Taken: 13:40
NET Sample No: 259133

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
5030/8015-M/8020 Shell+MTBE								
DILUTION FACTOR*	10						01/25/1996	3505
Purgeable TPH	2,800		500	ug/L	8015		01/25/1996	3505
Carbon Range: C6 to C12	--				8015		01/25/1996	3505
8020 (GC, Liquid)	--				8020		01/25/1996	3505
Benzene	150		5	ug/L	8020		01/25/1996	3505
Toluene	7.4		5	ug/L	8020		01/25/1996	3505
Ethylbenzene	54		5	ug/L	8020		01/25/1996	3505
Xylenes (Total)	130		5	ug/L	8020		01/25/1996	3505
SURROGATE RESULTS								
Bromofluorobenzene (SURR)	100			% Rec.	8020		01/25/1996	3505

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: 96.00228

Date: 01/31/1996
ELAP Cert: 1386
Page: 6

Ref: Shell 3420 San Pablo Ave., Oakland, CA/960117-A2

SAMPLE DESCRIPTION: MW10
Date Taken: 01/17/1996
Time Taken: 14:20
NET Sample No: 259134

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch
Tot. Dissolved Solids (TFR)	640,000		10,000	ug/L	160.1		01/23/1996	652
5030/8015-M/8020 Shell+MTBE								
DILUTION FACTOR*	10						01/26/1996	3507
Purgeable TPH	17,000	FF	5,000	ug/L	8015		01/25/1996	3505
Carbon Range: C6 to C12	--				8015		01/25/1996	3505
8020 (GC, Liquid)	--				8020		01/25/1996	3505
Benzene	870	FF	50	ug/L	8020		01/29/1996	3511
Toluene	93	FF	50	ug/L	8020		01/25/1996	3505
Ethylbenzene	310	FF	50	ug/L	8020		01/25/1996	3505
Xylenes (Total)	260	FF	50	ug/L	8020		01/25/1996	3505
SURROGATE RESULTS								
Bromofluorobenzene (SURR)	97			% Rec.	8020		01/25/1996	3505

SAMPLE DESCRIPTION: MW11
Date Taken: 01/17/1996
Time Taken: 12:30
NET Sample No: 259135

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch
5030/8015-M/8020 Shell+MTBE								
DILUTION FACTOR*	1						01/25/1996	3505
Purgeable TPH	ND		50	ug/L	8015		01/25/1996	3505
Carbon Range: C6 to C12	--				8015		01/25/1996	3505
8020 (GC, Liquid)	--				8020		01/25/1996	3505
Benzene	ND		0.5	ug/L	8020		01/25/1996	3505
Toluene	ND		0.5	ug/L	8020		01/25/1996	3505
Ethylbenzene	ND		0.5	ug/L	8020		01/25/1996	3505
Xylenes (Total)	ND		0.5	ug/L	8020		01/25/1996	3505
SURROGATE RESULTS								
Bromofluorobenzene (SURR)	98			% Rec.	8020		01/25/1996	3505

FF : Compound quantitated at a 100X dilution factor.

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: 96.00228

Date: 01/31/1996
ELAP Cert: 1386
Page: 7

Ref: Shell 3420 San Pablo Ave., Oakland, CA/960117-A2

SAMPLE DESCRIPTION: EB
Date Taken: 01/17/1996
Time Taken: 12:35
NET Sample No: 259136

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch No.
5030/8015-M/8020 Shell+MTBE								
DILUTION FACTOR*	1						01/26/1996	3505
Purgeable TPH	ND		50	ug/L	8015		01/26/1996	3505
Carbon Range: C6 to C12	--				8015		01/26/1996	3505
8020 (GC, Liquid)	--				8020		01/26/1996	3505
Benzene	ND		0.5	ug/L	8020		01/26/1996	3505
Toluene	ND		0.5	ug/L	8020		01/26/1996	3505
Ethylbenzene	ND		0.5	ug/L	8020		01/26/1996	3505
Xylenes (Total)	ND		0.5	ug/L	8020		01/26/1996	3505
SURROGATE RESULTS	--						01/26/1996	3505
Bromofluorobenzene (SURR)	91			% Rec.	8020		01/26/1996	3505

SAMPLE DESCRIPTION: DUP
Date Taken: 01/17/1996
Time Taken:
NET Sample No: 259137

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch No.
5030/8015-M/8020 Shell+MTBE								
DILUTION FACTOR*	1,000						01/27/1996	3507
Purgeable TPH	78,000		50,000	ug/L	8015		01/27/1996	3507
Carbon Range: C6 to C12	--				8015		01/27/1996	3507
8020 (GC, Liquid)	--				8020		01/27/1996	3507
Benzene	12,000		500	ug/L	8020		01/27/1996	3507
Toluene	920		500	ug/L	8020		01/27/1996	3507
Ethylbenzene	2,500		500	ug/L	8020		01/27/1996	3507
Xylenes (Total)	12,000		500	ug/L	8020		01/27/1996	3507
SURROGATE RESULTS	--						01/27/1996	3507
Bromofluorobenzene (SURR)	81			% Rec.	8020		01/27/1996	3507

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: 96.00228

Date: 01/31/1996
 ELAP Cert: 1386
 Page: 8

Ref: Shell 3420 San Pablo Ave., Oakland, CA/960117-A2

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					
Tot. Dissolved Solids (TFR)	99.8	744	745.6		mg/L	01/23/1996	ngw	652
5030/8015-M/8020 Shell+MTBE								
Purgeable TPH	108.0	0.54	0.50		mg/L	01/25/1996	aal	3505
Benzene	105.2	5.26	5.00		ug/L	01/25/1996	aal	3505
Toluene	101.2	5.06	5.00		ug/L	01/25/1996	aal	3505
Ethylbenzene	97.2	4.86	5.00		ug/L	01/25/1996	aal	3505
Xylenes (Total)	101.3	15.2	15.0		ug/L	01/25/1996	aal	3505
Bromofluorobenzene (SURR)	97.0	97	100		% Rec.	01/25/1996	aal	3505
5030/8015-M/8020 Shell+MTBE								
Purgeable TPH	110.0	0.55	0.50		mg/L	01/26/1996	aal	3507
Benzene	105.0	5.25	5.00		ug/L	01/26/1996	aal	3507
Toluene	111.8	5.59	5.00		ug/L	01/26/1996	aal	3507
Ethylbenzene	100.0	5.00	5.00		ug/L	01/26/1996	aal	3507
Xylenes (Total)	104.0	15.6	15.0		ug/L	01/26/1996	aal	3507
Bromofluorobenzene (SURR)	96.0	96	100		% Rec.	01/26/1996	aal	3507
5030/8015-M/8020 Shell+MTBE								
Purgeable TPH	110.0	0.55	0.50		mg/L	01/29/1996	aal	3511
Benzene	103.6	5.18	5.00		ug/L	01/29/1996	aal	3511
Toluene	89.6	4.48	5.00		ug/L	01/29/1996	aal	3511
Ethylbenzene	96.8	4.84	5.00		ug/L	01/29/1996	aal	3511
Xylenes (Total)	100.7	15.1	15.0		ug/L	01/29/1996	aal	3511
Bromofluorobenzene (SURR)	97.0	97	100		% Rec.	01/29/1996	aal	3511

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: 96.00228

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METHOD BLANK REPORT

Parameter	Method				Date Analyzed	Analyst Initials	Run Batch Number
	Blank Amount Found	Reporting Limit	Flags	Units			
Tot. Dissolved Solids (TFR)	ND	10		mg/L	01/23/1996	ngw	652
5030/8015-M/8020 Shell+MTBE							
Purgeable TPH	ND	0.05		mg/L	01/25/1996	aal	3505
Benzene	ND	0.5		ug/L	01/25/1996	aal	3505
Toluene	ND	0.5		ug/L	01/25/1996	aal	3505
Ethylbenzene	ND	0.5		ug/L	01/25/1996	aal	3505
Xylenes (Total)	ND	0.5		ug/L	01/25/1996	aal	3505
Bromofluorobenzene (SURR)	98			% Rec.	01/25/1996	aal	3505
5030/8015-M/8020 Shell+MTBE							
Purgeable TPH	ND	0.05		mg/L	01/26/1996	aal	3507
Benzene	ND	0.5		ug/L	01/26/1996	aal	3507
Toluene	ND	0.5		ug/L	01/26/1996	aal	3507
Ethylbenzene	ND	0.5		ug/L	01/26/1996	aal	3507
Xylenes (Total)	ND	0.5		ug/L	01/26/1996	aal	3507
Bromofluorobenzene (SURR)	94			% Rec.	01/26/1996	aal	3507
5030/8015-M/8020 Shell+MTBE							
Purgeable TPH	ND	0.05		mg/L	01/29/1996	aal	3511
Benzene	ND	0.5		ug/L	01/29/1996	aal	3511
Toluene	ND	0.5		ug/L	01/29/1996	aal	3511
Ethylbenzene	ND	0.5		ug/L	01/29/1996	aal	3511
Xylenes (Total)	ND	0.5		ug/L	01/29/1996	aal	3511
Bromofluorobenzene (SURR)	95			% Rec.	01/29/1996	aal	3511

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike				Sample Conc.	Matrix Spike		Flags	Units	Date Analyzed	Run Batch	Sample Spiked
	Spike % Rec.	Dup % Rec.	RPD	Spike Amount		Spike Conc.	Dup. Conc.					
5030/8015-M/8020 Shell+MTBE												259057
Purgeable TPH	108.0	108.0	0.0	0.5	ND	0.54	0.54		mg/L	01/25/1996	3505	259057
Benzene	98.0	96.7	1.3	8.61	ND	8.44	8.33		ug/L	01/25/1996	3505	259057
Toluene	99.6	98.6	1.0	28.1	ND	28.0	27.7		ug/L	01/25/1996	3505	259057
5030/8015-M/8020 Shell+MTBE												259052
Purgeable TPH	116.0	116.0	0.0	0.5	ND	0.58	0.58		mg/L	01/26/1996	3507	259052
Benzene	104.2	102.7	1.4	8.54	ND	8.90	8.77		ug/L	01/26/1996	3507	259052
Toluene	113.0	112.3	0.6	25.3	ND	28.6	28.4		ug/L	01/26/1996	3507	259052
5030/8015-M/8020 Shell+MTBE												259536
Purgeable TPH	96.0	98.0	2.1	0.5	ND	0.48	0.49		mg/L	01/29/1996	3511	259536
Benzene	89.0	91.3	2.6	8.66	ND	7.71	7.91		ug/L	01/29/1996	3511	259536
Toluene	99.3	28.1	111.828.1		ND	27.9	7.91		ug/L	01/29/1996	3511	259536

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LABORATORY CONTROL SAMPLE REPORT

Parameter	LCS		RPD	DUP			Flags	Units	Date Analyzed	Analyst Initials	Run Batch
	% Rec.	% Rec.		LCS Amount Found	LCS Amount Found	LCS Amount Exp.					
Tot. Dissolved Solids (TFR)	97.5			727		745.6		mg/L	01/23/1996	ngw	652

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



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: 01/31/1996
NET Client Acct. No: 1821
NET Job No: 96.00228-A
Received: 01/19/1996

Client Reference Information

Shell 3420 San Pablo Ave., Oakland, CA/960117-A2

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
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SAMPLE DESCRIPTION: MW1

Date Taken: 01/17/1996

NET Sample No: 259126

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Run
			Limit				Extracted	Analyzed	Batch
8020 (GC, Liquid)	--					8020		01/25/1996	3505
DILUTION FACTOR*	100							01/25/1996	3505
Methyl-tert-butyl ether	15,000		200		ug/L	8020		01/25/1996	3505
SURROGATE RESULTS	--							01/25/1996	3505
Bromofluorobenzene (SURR)	99				% Rec.	8020		01/25/1996	3505

SAMPLE DESCRIPTION: MW2

Date Taken: 01/17/1996

NET Sample No: 259127

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Run
			Limit				Extracted	Analyzed	Batch
8020 (GC, Liquid)	--					8020		01/25/1996	3505
DILUTION FACTOR*	100							01/25/1996	3505
Methyl-tert-butyl ether	2,200		200		ug/L	8020		01/25/1996	3505
SURROGATE RESULTS	--							01/25/1996	3505
Bromofluorobenzene (SURR)	106				% Rec.	8020		01/25/1996	3505

SAMPLE DESCRIPTION: MW3

Date Taken: 01/17/1996

NET Sample No: 259128

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Run
			Limit				Extracted	Analyzed	Batch
8020 (GC, Liquid)	--					8020		01/25/1996	3505
DILUTION FACTOR*	1							01/25/1996	3505
Methyl-tert-butyl ether	7.8		2		ug/L	8020		01/25/1996	3505
SURROGATE RESULTS	--							01/25/1996	3505
Bromofluorobenzene (SURR)	98				% Rec.	8020		01/25/1996	3505

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



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Date: 01/31/1996

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SAMPLE DESCRIPTION: MW4

Date Taken: 01/17/1996

NET Sample No: 259129

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Run
			Limit				Extracted	Analyzed	Batch No.
8020 (GC, Liquid)	--					8020		01/25/1996	3505
DILUTION FACTOR*	100							01/25/1996	3505
Methyl-tert-butyl ether	4,500		200		ug/L	8020		01/25/1996	3505
SURROGATE RESULTS	--							01/25/1996	3505
Bromofluorobenzene (SURR)	96				% Rec.	8020		01/25/1996	3505

SAMPLE DESCRIPTION: MW5

Date Taken: 01/17/1996

NET Sample No: 259130

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Run
			Limit				Extracted	Analyzed	Batch No.
8020 (GC, Liquid)	--					8020		01/25/1996	3505
DILUTION FACTOR*	100							01/25/1996	3505
Methyl-tert-butyl ether	820		200		ug/L	8020		01/25/1996	3505
SURROGATE RESULTS	--							01/25/1996	3505
Bromofluorobenzene (SURR)	111				% Rec.	8020		01/25/1996	3505

SAMPLE DESCRIPTION: MW6

Date Taken: 01/17/1996

NET Sample No: 259131

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Run
			Limit				Extracted	Analyzed	Batch No.
8020 (GC, Liquid)	--					8020		01/25/1996	3505
DILUTION FACTOR*	100							01/26/1996	3507
Methyl-tert-butyl ether	630		200		ug/L	8020		01/26/1996	3507
SURROGATE RESULTS	--							01/25/1996	3505
Bromofluorobenzene (SURR)	104				% Rec.	8020		01/25/1996	3505

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
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SAMPLE DESCRIPTION: MW8

Date Taken: 01/17/1996

NET Sample No: 259132

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Run
			Limit				Extracted	Analyzed	Batch
8020 (GC, Liquid)	--					8020	01/26/1996		3507
DILUTION FACTOR*	100						01/26/1996		3507
Methyl-tert-butyl ether	950		200		ug/L	8020	01/26/1996		3507
SURROGATE RESULTS	--						01/26/1996		3507
Bromofluorobenzene (SURR)	102				% Rec.	8020	01/26/1996		3507

SAMPLE DESCRIPTION: MW9

Date Taken: 01/17/1996

NET Sample No: 259133

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Run
			Limit				Extracted	Analyzed	Batch
8020 (GC, Liquid)	--					8020	01/25/1996		3505
DILUTION FACTOR*	10						01/25/1996		3505
Methyl-tert-butyl ether	170		20		ug/L	8020	01/25/1996		3505
SURROGATE RESULTS	--						01/25/1996		3505
Bromofluorobenzene (SURR)	100				% Rec.	8020	01/25/1996		3505

SAMPLE DESCRIPTION: MW10

Date Taken: 01/17/1996

NET Sample No: 259134

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Run
			Limit				Extracted	Analyzed	Batch
8020 (GC, Liquid)	--					8020	01/25/1996		3505
DILUTION FACTOR*	10						01/26/1996		3507
Methyl-tert-butyl ether	830		20		ug/L	8020	01/26/1996		3507
SURROGATE RESULTS	--						01/25/1996		3505
Bromofluorobenzene (SURR)	97				% Rec.	8020	01/25/1996		3505

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



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SAMPLE DESCRIPTION: MW11

Date Taken: 01/17/1996

NET Sample No: 259135

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Run
			Limit				Extracted	Analyzed	Batch
8020 (GC, Liquid)	--					8020		01/25/1996	3505
DILUTION FACTOR*	1							01/25/1996	3505
Methyl-tert-butyl ether	ND		2		ug/L	8020		01/25/1996	3505
SURROGATE RESULTS	--							01/25/1996	3505
Bromofluorobenzene (SURR)	98				% Rec.	8020		01/25/1996	3505

SAMPLE DESCRIPTION: EB

Date Taken: 01/17/1996

NET Sample No: 259136

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Run
			Limit				Extracted	Analyzed	Batch
8020 (GC, Liquid)	--					8020		01/26/1996	3505
DILUTION FACTOR*	1							01/26/1996	3505
Methyl-tert-butyl ether	ND		2		ug/L	8020		01/26/1996	3505
SURROGATE RESULTS	--							01/26/1996	3505
Bromofluorobenzene (SURR)	91				% Rec.	8020		01/26/1996	3505

SAMPLE DESCRIPTION: DUP

Date Taken: 01/17/1996

NET Sample No: 259137

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Run
			Limit				Extracted	Analyzed	Batch
8020 (GC, Liquid)	--					8020		01/27/1996	3507
DILUTION FACTOR*	1,000							01/27/1996	3507
Methyl-tert-butyl ether	2,500		2,000		ug/L	8020		01/27/1996	3507
SURROGATE RESULTS	--							01/27/1996	3507
Bromofluorobenzene (SURR)	81				% Rec.	8020		01/27/1996	3507

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	Flags	Units	Date Analyzed	Analyst Initials	Run Batch
	Standard	Standard					
	% Recovery	Amount Found	Amount Expected				
Tot. Dissolved Solids (TFR)	99.8	744	745.6		01/23/1996	ngw	652
5030/8015-M/8020 Shell+MTBE							
Purgeable TPH	108.0	0.54	0.50		01/25/1996	aal	3505
Benzene	105.2	5.26	5.00		01/25/1996	aal	3505
Toluene	101.2	5.06	5.00		01/25/1996	aal	3505
Ethylbenzene	97.2	4.86	5.00		01/25/1996	aal	3505
Xylenes (Total)	101.3	15.2	15.0		01/25/1996	aal	3505
Bromofluorobenzene (SURR)	97.0	97	100	% Rec.	01/25/1996	aal	3505
5030/8015-M/8020 Shell+MTBE							
Purgeable TPH	110.0	0.55	0.50		01/26/1996	aal	3507
Benzene	105.0	5.25	5.00		01/26/1996	aal	3507
Toluene	111.8	5.59	5.00		01/26/1996	aal	3507
Ethylbenzene	100.0	5.00	5.00		01/26/1996	aal	3507
Xylenes (Total)	104.0	15.6	15.0		01/26/1996	aal	3507
Bromofluorobenzene (SURR)	96.0	96	100	% Rec.	01/26/1996	aal	3507

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	Flags	Units	Date	Analyst	Run
	Blank						
	Found	Limit			Analyzed	Initials	Number
Tot. Dissolved Solids (TFR)	ND	10		mg/L	01/23/1996	ngw	652
5030/8015-M/8020 Shell+MTBE							
Purgeable TPH	ND	0.05		mg/L	01/25/1996	aal	3505
Benzene	ND	0.5		ug/L	01/25/1996	aal	3505
Toluene	ND	0.5		ug/L	01/25/1996	aal	3505
Ethylbenzene	ND	0.5		ug/L	01/25/1996	aal	3505
Xylenes (Total)	ND	0.5		ug/L	01/25/1996	aal	3505
Methyl-tert-butyl ether	ND	2		ug/L	01/25/1996	aal	3505
Bromofluorobenzene (SURR)	98			% Rec.	01/25/1996	aal	3505
5030/8015-M/8020 Shell+MTBE							
Purgeable TPH	ND	0.05		mg/L	01/26/1996	aal	3507
Benzene	ND	0.5		ug/L	01/26/1996	aal	3507
Toluene	ND	0.5		ug/L	01/26/1996	aal	3507
Ethylbenzene	ND	0.5		ug/L	01/26/1996	aal	3507
Xylenes (Total)	ND	0.5		ug/L	01/26/1996	aal	3507
Methyl-tert-butyl ether	ND	2		ug/L	01/26/1996	aal	3507
Bromofluorobenzene (SURR)	94			% Rec.	01/26/1996	aal	3507

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: 96.00228-A

Date: 01/31/1996
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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
	Spike % Rec.	Dup % Rec.	RPD	Spike Amount		Conc.	Conc.	Conc.					
5030/8015-M/8020 Shell+MTBE													259057
Purgeable TPH	108.0	108.0	0.0	0.5	ND	0.54	0.54		mg/L	01/25/1996	3505		259057
Benzene	98.0	96.7	1.3	8.61	ND	8.44	8.33		ug/L	01/25/1996	3505		259057
Toluene	99.6	98.6	1.0	28.1	ND	28.0	27.7		ug/L	01/25/1996	3505		259057
5030/8015-M/8020 Shell+MTBE													259052
Purgeable TPH	116.0	116.0	0.0	0.5	ND	0.58	0.58		mg/L	01/26/1996	3507		259052
Benzene	104.2	102.7	1.4	8.54	ND	8.90	8.77		ug/L	01/26/1996	3507		259052
Toluene	113.0	112.3	0.6	25.3	ND	28.6	28.4		ug/L	01/26/1996	3507		259052

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



KEY TO ABBREVIATIONS and METHOD REFERENCES

- < : Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.
- * : Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated Reporting Limits by the dilution factor (but do not multiply reported values).
- ICVS : Initial Calibration Verification Standard (External Standard).
- mean : Average; sum of measurements divided by number of measurements.
- mg/Kg (ppm) : Concentration in units of milligrams of analyte per kilogram of sample, wet-weight basis (parts per million).
- mg/L : Concentration in units of milligrams of analyte per liter of sample.
- mL/L/hr : Milliliters per liter per hour.
- MPN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.
- N/A : Not applicable.
- NA : Not analyzed.
- ND : Not detected; the analyte concentration is less than applicable listed reporting limit.
- NTU : Nephelometric turbidity units.
- RPD : Relative percent difference, $100 \text{ [Value 1 - Value 2] / mean value}$.
- SNA : Standard not available.
- ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample, wet-weight basis (parts per billion).
- ug/L : Concentration in units of micrograms of analyte per liter of sample.
- umhos/cm : Micromhos per centimeter.

Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, rev. 1983.

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

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

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

COOLER RECEIPT FORM

Project: 960117-A2 Log No: 9973
Cooler received on: 11/19/96 and checked on 11/19/96 by Bm Greene
(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
- 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

Temp 06

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 #
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____