



April 9, 1996

Scott Seery
Alameda County Department of
Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Re: **First Quarter 1996**
Shell Service Station
WIC #204-5508-3301
6039 College Avenue
Oakland, California
WA Job #81-0618-206

Dear Mr. Seery:

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

First Quarter 1996 Activities:

- Blaine Tech Services, Inc. (BTS) of San Jose, California measured depths to ground water and collected ground water samples from the site wells. The BTS report describing these activities and the analytic results for ground water are included as Attachment A.
- Weiss Associates (WA) compiled the ground water elevation and analytic data (Tables 1 and 2) and prepared a map showing ground water elevations and benzene concentrations (Figure 2). SPH removal data is included in Table 3. To date, about 11 pounds of SPHs have been removed from the subsurface.

Anticipated Second Quarter 1996 Activities:

- WA will submit a report presenting the results of second quarter 1996 ground water sampling and ground water depth measurements. The report will include tabulated chemical analytic results and a ground water elevation contour map.

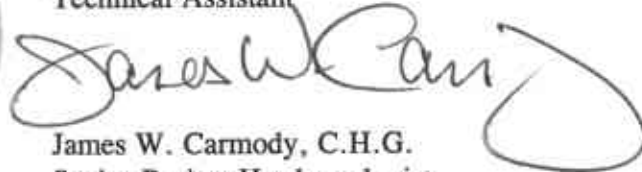
Scott Seery
April 9, 1996

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, CA 94524
Tom Callaghan, San Francisco Bay Regional Water Quality Control Board, 2101 Webster
Street, Oakland, CA 94612

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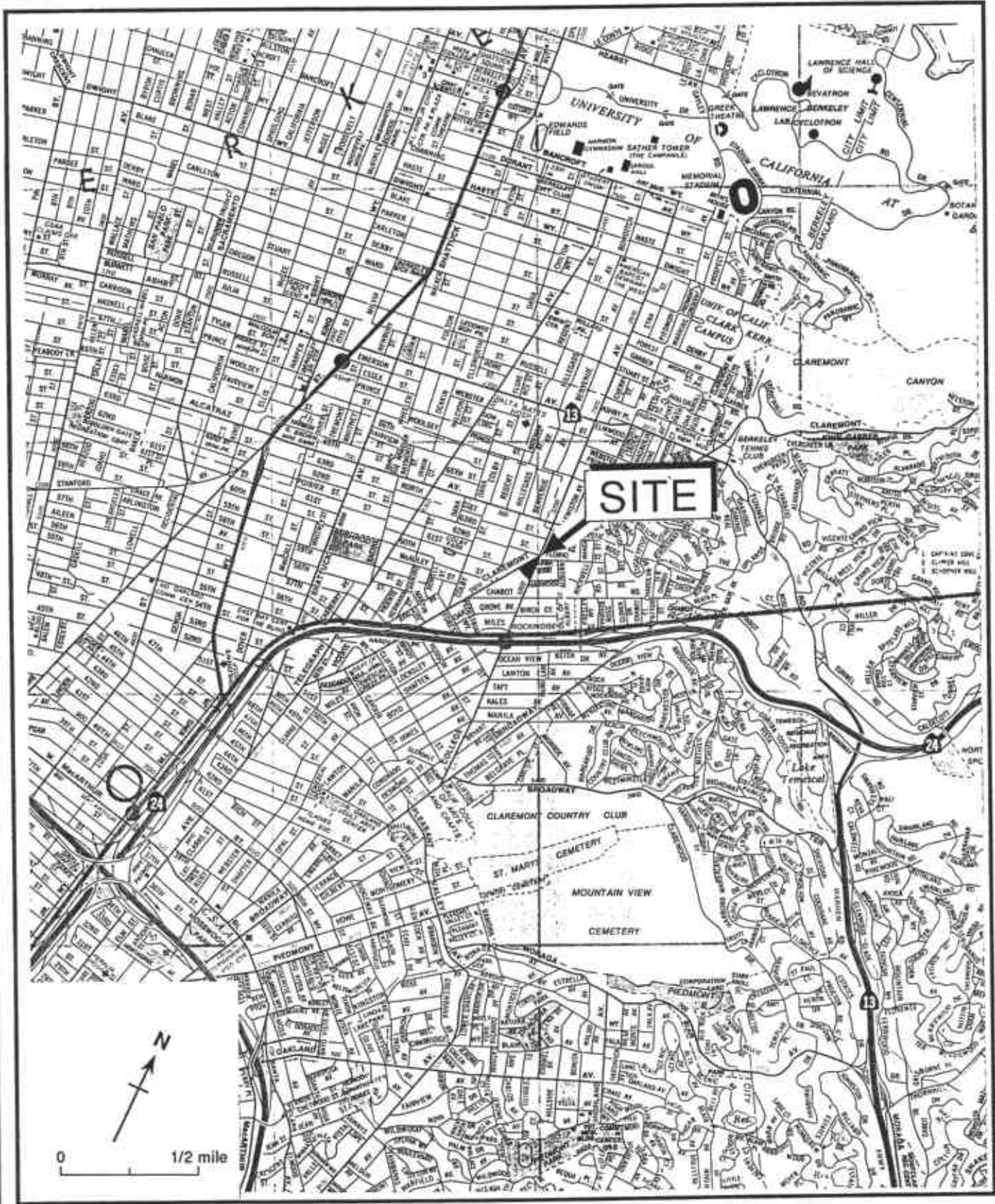


Figure 1. Site Location Map - Shell Service Station WIC #204-5508-3301, 6039 College Avenue, Oakland, California

EXPLANATION	
⊙ MW-1	Monitoring well
186.01	Ground water elevation, ft above mean sea level
[<0.5]	Benzene concentrations in parts per billion (ppb)
[NA]	Not accessible
-185.5	Ground water elevation contour, ft above mean sea level, approximately located, dashed where inferred
→	Inferred ground water flow direction

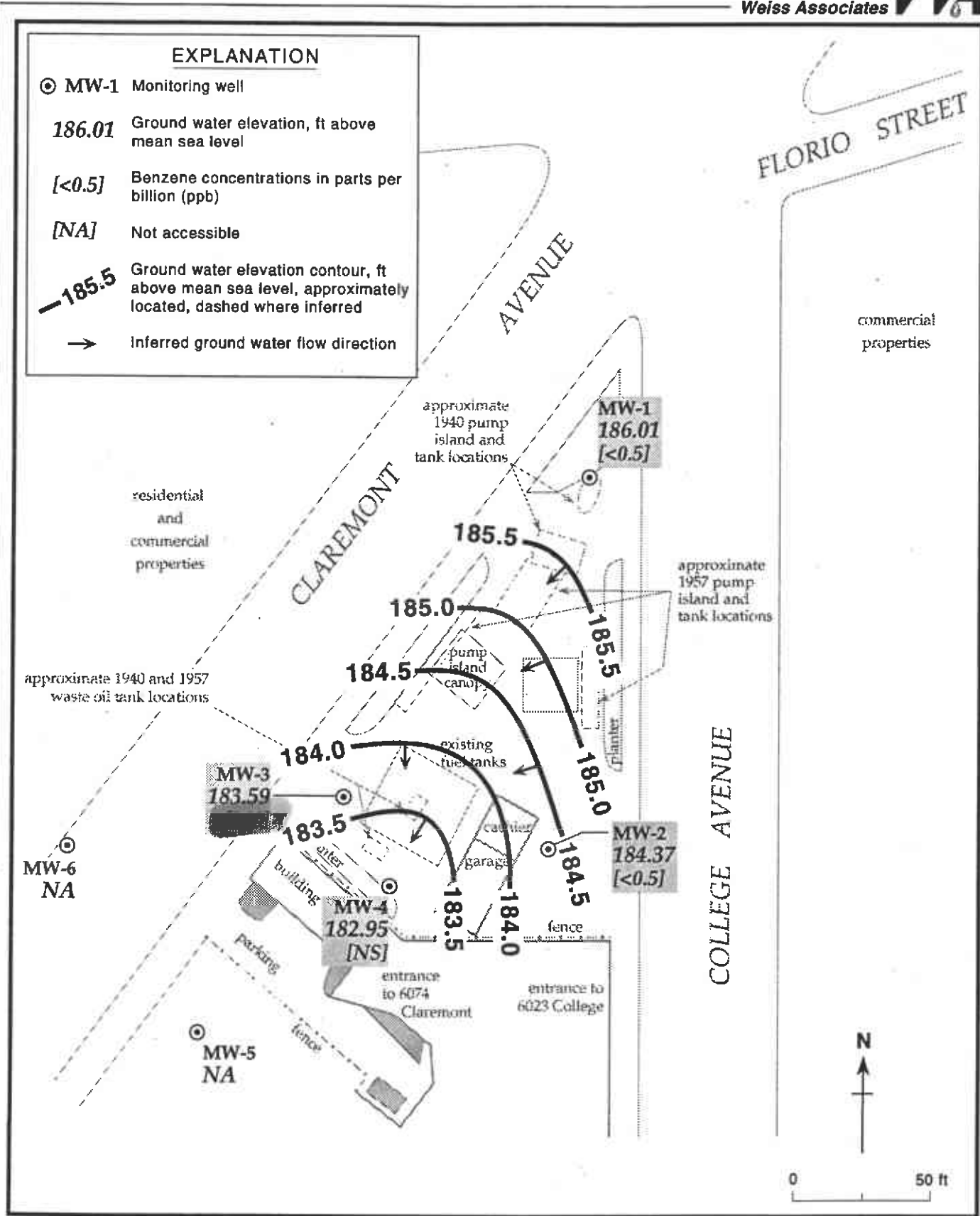


Figure 2. Monitoring Well Locations, Ground Water Elevation Contours, and Benzene Concentrations in Ground Water - February 24, 1996 - Shell Service Station WIC #204-5508-3301, 6039 College Avenue, Oakland, California

Table 1. Ground Water Elevations - Shell Service Station WIC #204-5508-3301, 6039 College 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	02/15/90	195.89	17.73		178.16
	04/19/90		18.51		177.38
	05/14/90		18.92		176.97
	06/21/90		18.21		177.68
	09/12/90		19.81		176.08
	11/27/90		20.39		175.50
	03/08/91		16.85		179.04
	06/03/91		17.82		178.07
	08/30/91		19.87		176.02
	11/22/91		20.58		175.31
	03/18/92		13.55		182.34
	05/28/92		17.08		178.81
	08/19/92		19.07		176.82
	11/17/92		20.11		175.78
	02/12/93		12.10		183.79
	06/10/93		14.87		181.02
	08/18/93		16.90		178.99
	11/19/93		19.72		176.17
	02/28/94		15.08		180.81
	05/04/94		17.20		178.69
	08/10/94		18.76		177.13
	11/08/94		16.00		179.89
	02/01/95		10.18		185.71
	05/10/95		11.88		184.01
	08/24/95		15.60		180.29
	11/10/95		18.24		177.65
	02/24/96		9.88		186.01
MW-2	02/15/90	194.27	16.90		177.37
	04/19/90		17.69		176.58
	05/14/90		18.01		176.26
	06/21/90		17.39		176.88
	09/12/90		19.00		175.27
	11/27/90		19.44		174.83
	03/08/91		15.96		178.31
	06/03/91		17.00		177.27
	08/30/91		18.95		175.32
	11/22/91		19.55		174.72
	03/18/92		12.91		181.36
	05/28/92		16.25		178.02
	08/19/92		18.21		176.06
	11/17/92		19.15		175.12
02/12/93	11.60		182.67		

Table 1. Ground Water Elevations - Shell Service Station WIC #204-5508-3301, 6039 College 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
	06/10/93		14.14		180.13
	08/18/93		16.10		178.17
	11/19/93		18.77		175.50
	02/28/94		14.35		179.92
	05/04/94		16.34		177.93
	08/10/94		15.79		178.48
	11/08/94		15.04		179.23
	02/01/95		10.08		184.19
	05/10/95		11.68		182.59
	08/24/95		14.94		179.33
	11/10/95		13.36		180.91
	02/24/96		9.90		184.37
MW-3	02/15/90	192.52	15.81		176.71
	04/19/90		16.57		175.95
	05/14/90		16.97		175.55
	06/21/90		16.27		176.25
	09/12/90		18.78		173.74
	11/27/90		18.27		174.25
	03/08/91		14.86		177.66
	06/03/91		15.84		176.68
	08/30/91		17.79		174.73
	11/22/91		18.40		174.12
	03/18/92		12.03		180.49
	05/28/92		15.16		177.36
	08/19/92		17.03		175.49
	11/17/92		17.94		174.58
	02/12/93		9.16		183.36
	06/10/93		13.20		179.32
	08/18/93		14.93		177.59
	11/19/93		17.58		174.94
	02/28/94		13.30		179.22
	05/04/94		15.25		177.27
	08/10/94		16.63		175.89
	11/08/94		13.88		178.64
	02/01/95		9.25		183.27
	05/10/95		10.76		181.74
	08/24/95		13.90		178.62
	11/10/95		16.20		176.32
	02/24/96		8.93		183.59

Table 1. Ground Water Elevations - Shell Service Station WIC #204-5508-3301, 6039 College 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
MW-4	02/15/90	193.37	16.73		176.65
	04/19/90		17.48		175.89
	05/14/90		17.88		175.49
	06/21/90		17.18		176.19
	09/12/90		17.85		175.52
	11/27/90		19.16		174.21
	03/08/91		15.77		177.60
	06/03/91		16.77		176.60
	08/30/91		18.71		174.66
	11/22/91		---		---
	03/18/92 ^a		13.15	0.24	180.41
	05/28/92 ^a		16.22	0.12	177.25
	08/19/92 ^a		18.05	0.09	175.39
	11/17/92		18.89		174.48
	02/12/93		11.78	<0.01	181.59
	06/10/93		14.20		179.17
	08/18/93		15.95	0.01	177.43
	11/19/93		18.48	0.01	174.90
	02/28/94		14.60	<0.01	178.77
	05/04/94		16.15	<0.01	177.22
	08/10/94		17.58	0.02	175.81
	11/08/94		15.05	0.05	178.36
	02/01/95		10.71	0.04	182.69
	05/10/95		11.90	0.06	181.52
	08/24/95		14.97	0.02	178.42
	11/10/95		17.27	---	176.10
02/24/96	10.44	0.03	182.95		
MW-5	08/30/91	190.35	16.74		173.61
	11/22/91		17.27		173.08
	03/18/92		11.28		179.07
	05/28/92 ^b		---		---
	08/19/92		15.99		174.36
	11/17/92		16.84		173.51
	02/12/93		10.30		180.05
	06/10/93		12.36		177.99
	08/18/93		14.02		176.33
	11/19/93		16.50		173.85
	02/28/94		12.55		177.80
	05/04/94		14.27		176.08
	08/10/94		15.60		174.75
11/08/94	12.85		177.50		
02/01/95	8.98		181.37		

Table 1. Ground Water Elevations - Shell Service Station WIC #204-5508-3301, 6039 College 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
	05/10/95		10.16		180.19
	08/24/95		12.98		177.37
	11/10/95		15.12		175.23
	02/24/96 ^b		---		---
MW-6	09/21/93	189.05	14.64		174.41
	11/19/93		---		---
	02/28/94		12.18		176.87
	05/04/94		13.62		175.43
	08/10/94		14.98		174.07
	11/08/94		12.20		176.85
	02/01/95		8.70		180.35
	05/10/95		9.86		179.19
	08/24/95		12.46		176.59
	11/10/95		14.56		174.49
	02/24/96 ^b		---		---

Notes:

- a = When separate-phase hydrocarbons are present, ground water elevation is corrected by the relation: Corrected ground water elevation = (Top-of-Casing Elevation) - (depth to water) + (0.8 x separate-phase hydrocarbon thickness)
- b = Well inaccessible
- = Data not available

Table 2. Analytic Results for Ground Water - Shell Service Station WIC #204-5508-3301, 6039 College Avenue, Oakland, California

Well/Boring ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	TPH-MO	POG	parts per billion (µg/L)					SVOCs
							B	E	T	X		
MW-1	02/13/90	17.73	95	650	770	---	ND	0.37	0.67	3.2	---	
	05/14/90	18.92	95	ND	770	---	0.70	0.71	0.57	3.5	---	
	09/12/90	19.81	ND	84	ND	---	ND	ND	ND	ND	---	
	11/27/90	20.39	---	---	---	---	---	---	---	---	---	
	03/08/91	16.85	ND	50	ND	---	ND	ND	ND	ND	---	
	06/03/91	17.82	ND	ND	ND	---	ND	ND	ND	ND	---	
	08/30/91	19.87	16.85	520	ND	---	ND	ND	ND	ND	---	
	11/22/91	20.58	<50	<50	<500	---	<0.5	<0.5	<0.5	<0.5	---	
	03/18/92	13.55	<30	<50	---	---	<0.3	<0.3	<0.3	<0.3	---	
	05/28/92	17.08	<50	<50	---	---	<0.5	<0.5	<0.5	<0.5	---	
	08/19/92	19.07	<50	<50	---	---	<0.5	<0.5	<0.5	<0.5	---	
	11/17/92	20.11	<50	<50	---	---	<0.5	<0.5	<0.5	<0.5	---	
	02/12/93	12.10	<50	<50	---	---	<0.5	<0.5	<0.5	<0.5	---	
	06/10/93	14.87	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---	
	06/10/93 ^{dup}	14.87	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---	
	08/18/93	16.90	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---	
	11/19/93	19.72	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---	
	02/18/94	15.08	<50	---	---	---	<0.5	<0.5	<0.5	1.7	---	
	05/04/94	17.20	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---	
	08/10/94	18.76	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---	
	08/10/94 ^{dup}	18.76	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---	
	11/08/94	16.00	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---	
	02/01/95	10.18	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---	
	05/10/95	11.88	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---	
08/24/95	15.60	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---		
11/10/95	18.24	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---		
02/24/96	9.88	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---		
MW-2	02/13/90	16.90	ND	560	ND	---	ND	ND	ND	ND	---	
	05/14/90	18.01	ND	ND	ND	---	ND	ND	ND	ND	---	
	09/12/90	19.00	ND	ND	ND	---	ND	ND	ND	ND	---	
	11/27/90	19.44	ND	ND	ND	---	ND	ND	ND	ND	---	
	03/08/91	15.96	ND	ND	ND	---	ND	ND	ND	ND	---	
	06/03/91	17.00	ND	ND	ND	---	ND	ND	ND	ND	---	
	08/30/91	18.95	ND	ND	ND	---	ND	ND	ND	ND	---	
	11/22/91	19.55	<50	<50	<500	---	<0.5	<0.5	<0.5	<0.5	---	
	03/18/92	12.91	<30	---	---	---	<0.3	<0.3	<0.3	<0.3	---	



Table 2. Analytic Results for Ground Water - Shell Service Station WIC #204-5508-3301, 6039 College Avenue, Oakland, California (continued)

Well/Boring ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	TPH-MO	POG	parts per billion (µg/L)				
							B	E	T	X	SVOCs
	05/28/92	16.25	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---
	08/19/92	18.21	<50	---	---	---	<0.5	1.2	2	1.9	---
	11/17/92	19.15	<50	---	---	---	<0.5	1.2	2	1.9	---
	02/12/93 ^{dup}	11.60	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---
	02/12/93	11.60	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---
	06/10/93	14.14	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---
	08/18/93	16.10	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---
	08/18/93 ^{dup}	16.10	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---
	11/19/93	18.77	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---
	02/18/94	14.55	<50	---	---	---	<0.5	<0.5	<0.5	1.6	---
	05/04/94	16.34	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---
	08/10/94	15.79	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---
	11/08/94	15.04	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---
	02/01/95	10.08	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---
	05/10/95	11.68	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---
	08/24/95	14.94	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---
	11/10/95	13.36	<50	---	---	---	1.7	1.4	0.8	4.9	---
	02/24/96	9.90	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---
	02/24/96 ^{dup}	9.90	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---
MW-3	02/13/90	15.81	4,700	3,100	3,000	---	320	110	29	33	---
	02/13/90 ^{dup}	15.81	4,600	4,500	8,300	---	380	160	8.6	57	---
	05/14/90	16.97	1,400	620	40,000	---	130	40	8.6	17	---
	05/14/90 ^{dup}	16.97	8,200	660	10,000	---	120	38	31	13	---
	09/12/90	18.78	2,000	1,500	19,000	---	58	16	5.8	15	---
	11/27/90	18.27	540	240	460	---	18	8.7	1.5	2.5	---
	* 03/08/91	14.86	3,400	2,100	ND	---	630	270	33	18	---
	06/03/91	15.84	1,700	690 ^a	ND	---	260	98	13	24	---
	08/30/91	17.79	870	370 ^b	500	---	44	10	6.1	2.9	---
	11/22/91	18.40	310	140	500	---	18	3.3	1.2	2.9	---
	* 03/18/92	12.03	67,100	1,900	20,000	---	620	220	28	38	---
	05/28/92	15.16	2,300	1,100 ^c	4,600	---	200	71	9	17	---
	08/19/92	17.03	5,700	1,000 ^c	1,800	---	71	52	77	130	---
	11/17/92	17.94	3,600	160 ^c	1,200	---	16	24	8.6	50	---
	* 02/12/93	9.16	4,700	560 ^c	<50	---	820	130	58	77	---
	06/10/93	13.20	2,200	---	940 ^d	---	310	89	23	23	---
	08/18/93	14.93	260	---	460 ^d	---	27	7.0	2.0	2.2	---

3, 6, 8, 11

Table 2. Analytic Results for Ground Water - Shell Service Station WIC #204-5508-3301, 6039 College Avenue, Oakland, California (continued)

Well/Boring ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	TPH-MO	POG	B E T X SVOCs				
							parts per billion (µg/L)				
	11/19/93	17.58	1,500 ^e	---	960 ^d	<5,000	24	37	54	17	---
	02/18/94	13.30	2,700	---	1,600	<5,000	65	16	5.2	6.3	---
	02/18/94 ^{dup}		3,100	---	2,200	<5,000	82	19	6.7	7.9	---
	05/04/94	15.25	780	---	710	<5,000	120	21	7.5	6.9	f
	05/04/94 ^{dup}	15.25	920	---	1,600	<5,000	120	22	7.7	7.1	g
	08/10/94	16.63	920	---	<500	<5,000	20	3.0	2.3	2.2	r
	11/08/94	13.88	1,300	---	1,300	---	180	7.0	16	12	---
	11/08/94 ^{dup}	13.88	1,200	---	730	---	170	7.2	15	11	---
	02/01/95	9.25	1,400	---	900 ^f	---	210	11	8.5	8.7	t
	05/10/95	10.76	460	---	---	<5,000	97	1.0	10	19	r
	08/24/95	13.90	640	---	---	<5,000	68	14	21	19	u
	11/10/95	16.20	350	---	---	<5,000	15	1.2	2.3	2.5	---
	02/24/96	8.20	3,300	---	---	<5,000	240	38	53	55	---
MW-4	02/13/90	16.73	ND	1,200	3,000	---	ND	ND	ND	ND	---
	05/14/90	17.88	650	350	12,000	---	160	1.9	7	3.1	---
	09/12/90	17.85	440	260	2,600	---	91	0.75	1.1	0.79	---
	09/12/90 ^{dup}	17.85	520	1,100	16,000	---	85	0.71	0.71	0.81	---
	11/27/90	19.16	470	2,400	1,000	---	64	0.80	1.2	2.7	---
	03/08/91	15.77	1,100	2,600	15,000	---	330	88	3.5	5.8	---
	06/03/91	16.77	670 ^h	1,100 ⁱ	ND	---	240	1.6	2.3	2.3	---
	08/30/91	18.71	570	280 ^j	2,000	---	64	0.9	1.8	0.9	---
	11/22/91 ^{SPH}	---	---	---	---	---	---	---	---	---	---
	03/18/92 ^{SPH}	13.15	---	---	---	---	---	---	---	---	---
	05/28/92 ^{SPH}	16.22	---	---	---	---	---	---	---	---	---
	08/19/92 ^{SPH}	18.05	---	---	---	---	---	---	---	---	---
	11/17/92 ^{SPH}	18.89	---	---	---	---	---	---	---	---	---
	02/12/93 ^{SPH}	11.78	---	---	---	---	---	---	---	---	---
	06/10/93	14.20	---	---	---	---	---	---	---	---	---
	08/18/93 ^{SPH}	15.95	---	---	---	---	---	---	---	---	---
	11/19/93 ^{SPH}	18.48	---	---	---	---	---	---	---	---	---
	02/28/94 ^{SPH}	14.60	---	---	---	---	---	---	---	---	---
	05/04/94 ^{SPH}	16.15	---	---	---	---	---	---	---	---	---
	08/10/94 ^{SPH}	17.58	---	---	---	---	---	---	---	---	---
	11/08/94 ^{SPH}	15.05	---	---	---	---	---	---	---	---	---
	02/01/95 ^{SPH}	10.71	---	---	---	---	---	---	---	---	---



Table 2. Analytic Results for Ground Water - Shell Service Station WIC #204-5508-3301, 6039 College Avenue, Oakland, California (continued)

Well/Boring ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	TPH-MO	POG	parts per billion (µg/L)				SVOCs
							B	E	T	X	
	05/10/95	11.90	---	---	---	---	---	---	---	---	---
	08/24/95	14.97	---	---	---	---	---	---	---	---	---
	08/10/95	17.27	4,700	---	---	29,000	100*	23	22	38	---
	02/24/96	10.44	---	---	---	---	---	---	---	---	---
MW-5	08/30/91	16.74	ND	80	ND	---	ND	ND	ND	ND	---
	11/22/91	17.27	<50	<50	<500	---	<0.5	<0.5	<0.5	<0.5	---
	03/18/92	11.28	<30	<50	---	---	<0.3	<0.3	<0.3	<0.3	---
	05/28/92 ^j	---	---	---	---	---	---	---	---	---	---
	08/19/92	15.99	<50	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	11/17/92	16.84	<50	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	02/12/93	10.30	<50	<50	---	---	<0.5	<0.5	<0.5	<0.5	---
	06/10/93	12.36	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---
	08/18/93	14.02	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---
	11/19/93	16.50	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---
	11/19/93 ^{dup}	16.50	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---
	02/18/94	12.55	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---
	05/04/94	14.27	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---
	08/10/94	15.60	70 ^o	---	---	---	<0.5	<0.5	<0.5	<0.5	---
	11/08/94	12.85	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---
	02/01/95	8.98	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---
	05/10/95	10.16	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---
	05/10/95 ^{dup}	10.16	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---
	08/24/95	12.98	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---
	11/10/95	15.12	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---
	02/24/96	---	---	---	---	---	---	---	---	---	---
MW-6	09/21/93	14.64	<50	<50	---	<5,000	<0.5	<0.5	<0.5	<0.5	<10-50
	11/19/93 ^k	---	---	---	---	---	---	---	---	---	---
	02/28/94	12.18	98 ^l	---	---	<5,000	<0.5	<0.5	<0.5	<0.5	---
	05/04/94	13.62	<50	---	---	<5,000	<0.5	<0.5	<0.5	<0.5	<2-10
	08/10/94	14.98	80 ^o	---	---	<5,000	<0.5	<0.5	<0.5	<0.5	r
	11/08/94 ^j	12.20	---	---	---	---	---	---	---	---	---
	02/01/95	8.70	120	---	---	---	3.5	3.4	21	22	---
	02/01/95 ^{dup}	8.70	110	---	---	---	0.6	0.5	0.6	0.9	---
	05/10/95	9.86	---	---	---	---	---	---	---	---	---
	08/24/95	12.46	80	---	---	---	<0.5	1.8	<0.5	2.4	---



Table 2. Analytic Results for Ground Water - Shell Service Station WIC #204-5508-3301, 6039 College Avenue, Oakland, California (continued)

Well/Boring ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	TPH-MO	POG	parts per billion (µg/L)					SVOCs
							B	E	T	X		
	08/24/95 ^{dup}	12.46	70	---	---	---	<0.5	1.2	<0.5	1.3	---	
	11/10/95	14.56	<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---	
	11/10/95	14.56	60	---	---	---	<0.5	<0.5	<0.5	<0.5	---	
	02/24/96	---	---	---	---	---	---	---	---	---	---	
BH-A	09/09/93	16.50	4,900	2,900 ^f	---	<5,000	18	54	<5	11	m	
BH-B	09/09/93	15.85	<50	150	---	<5,000	<0.5	<0.5	<0.5	<0.5	ND	
BH-C ⁿ	09/10/93	15.80	640 ^o	100	---	<5,000	3.5	0.6	<0.5	<0.5	ND	
BH-D ⁿ	09/10/93	14.2	24,000 ^o	25,000 ^c	---	20,000	720	44	86	11	p	
Bailer	08/19/92		<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---	
Blank	11/17/92		<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---	
Trip	02/13/90		ND	---	---	---	ND	ND	ND	ND	---	
Blank	05/14/90		ND	---	---	---	ND	ND	ND	ND	---	
	09/12/90		ND	---	---	---	ND	ND	ND	ND	---	
	03/08/91		ND	---	---	---	ND	ND	ND	ND	---	
	06/03/91		ND	---	---	---	ND	ND	ND	ND	---	
	08/30/91		ND	---	---	---	ND	ND	ND	ND	---	
	03/18/92		<30	<50	---	---	<0.3	<0.3	<0.3	<0.3	---	
	05/28/92		<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---	
	08/19/92		<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---	
	11/17/92		<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---	
	02/12/93		<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---	
	06/10/93		<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---	
	11/19/93		<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---	
	02/28/94		<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---	
	05/04/94		<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---	
	08/10/94		<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---	
	11/08/94		<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---	
	02/01/95		<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---	
	05/10/95		<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---	
	08/24/95		<50	---	---	---	<0.5	<0.5	<0.5	<0.5	---	
	11/10/95		<50	---	---	---	<0.5	<0.5	0.7	<0.5	---	



Table 2. Analytic Results for Ground Water - Shell Service Station WIC #204-5508-3301, 6039 College Avenue, Oakland, California (continued)

Well/Boring ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	TPH-MO	POG	B	E	T	X	SVOCs
			←————— parts per billion (µg/L) —————→								
DTSC MCLs			NE	NE	NE	---	1	680	100 ^a	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
 TPH-MO = Total petroleum hydrocarbons as motor oil by 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
 POG = Petroleum Oil & Grease by EPA Method 5520B/F
 SVOCs = Semivolatile organic compounds by EPA Method 8270
 NE = Not established
 DTSC MCLs = California Department of Toxic Substances Control Maximum Contaminant Levels drinking water
 --- = Not analyzed or measured
 <n = Not detected at detection limits of n ppb
 ND = Not detected, detection limit not known
 SPH = Separate-phase hydrocarbons in well, not sampled
 dup = Duplicate sample

Notes:

- a = Positive results for diesel appear to be less volatile constituents of gasoline
- b = Positive results for diesel has a typical diesel pattern
- c = Concentration reported as diesel is primarily due to the presence of a lighter petroleum product, possibly gasoline or kerosene
- d = Concentration reported as motor oil is due to the presence of a combination of motor oil and a lighter petroleum product of hydrocarbon range C6-C12, possibly gasoline
- e = Concentration reported as gasoline is due to the presence of gasoline and a discrete peak not indicative of gasoline
- f = Compounds are within chromatographic range of gasoline but are not characteristic of the standard gasoline pattern
- g = Results include compounds apparently due to gasoline as well as those due to diesel
- h = 6.5 ppb Naphthalene detected
- i = 11.0 ppb Naphthalene detected
- j = ~~Well inaccessible and not sampled~~
- k = Well inadvertently not sampled
- l = The concentration reported as gasoline is primarily due to the presence of a discrete peak not indicative of gasoline
- m = 13 ppb-methylnaphthalene and 23 ppb naphthalene detected
- n = Due to chain of custody mis-communication analyses run after holding time expiration
- o = The positive result has an atypical pattern for gasoline analysis
- p = 75 ppb 2-methylnaphthalene and 18 ppb naphthalene detected
- q = DTSC recommended action level; MCL not established
- r = Not detected at detection limits between 10 and 50 ppb
- s = Concentration reported as motor oil is due to the presence of heavier and lighter petroleum products.
- t = 27 ppb Naphthalene detected
- u = 12 ppb Naphthalene detected



Table 3. Separate-Phase Hydrocarbon Removal - Shell Service Station
WIC #204-5508-3301, 6039 College Avenue, Oakland, California

Well ID	Date	Separate-Phase Hydrocarbon Thickness (ft)	Separate-Phase Hydrocarbons Removed (lbs)	Cumulative Hydrocarbons Removed (lbs)
MW-4 ^a	01/15/92	---	3.12	3.12
	02/15/92	---	3.12	6.24
	03/18/92	0.24	---	6.24
	04/29/92	---	1.50	7.74
	05/28/92	0.12	0.18	7.92
	08/19/92	0.09	0.96	8.86
	11/17/92	---	0.96	9.82
	02/12/93	<0.01	---	9.82
	06/10/93	0.02	0.06	9.88
	08/18/93	0.01	0.06	9.94
	11/19/93	0.01	0.06	10.00
	02/28/94	0.01	0.06	10.06
	05/04/94	0.00	0.06	10.12
	08/10/94	0.02	0.06	10.18
	11/10/94	0.05	0.08	10.26
	02/01/95	0.04	0.06	10.32
	05/10/95	0.06	0.16	10.48
	08/24/95	0.02	---	10.48
	11/10/95	<0.01	---	10.48
	02/24/96	0.03	0.44	10.92

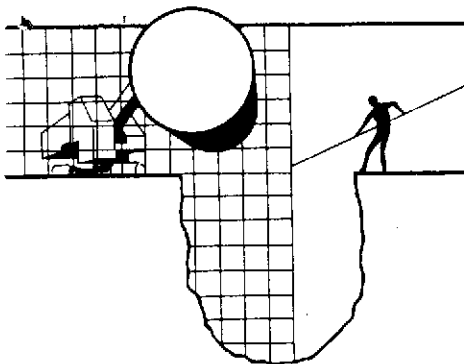
Notes:

- a = Petrotrap separate-phase hydrocarbon skimmer installed in well
 --- = Not measured or no hydrocarbons removed

$$0.03' \times \frac{12''}{1'} = 0.36''$$

ATTACHMENT A

BTS GROUND WATER MONITORING REPORT



BLAINE TECH SERVICES INC.

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

March 20, 1996

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

Attn: R. Jeff Granberry

Shell WIC #204-5508-3301
6039 College Avenue
Oakland, California

1st Quarter 1996

Quarterly Groundwater Monitoring Report 960224-K-3

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	2/24/96	TOC	--	NONE	--	--	9.88	24.50
MW-2 *	2/24/96	TOC	--	NONE	--	--	9.90	24.15
MW-3	2/24/96	TOC	ODOR	NONE	--	--	8.93	24.82
MW-4	2/24/96	TOC	FREE PRODUCT	10.41	0.03	250	10.44	--
MW-5	2/24/96	INACCESSIBLE						
MW-6	2/24/96	INACCESSIBLE						
T-1	2/24/96	TOC	DRY	NONE	--	--	--	4.40
T-2	2/24/96	TOC	DRY	NONE	--	--	--	8.27

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



NATIONAL
ENVIRONMENTAL
TESTING, INC.

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

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


Date: 03/06/1996
NET Client Acct. No: 1821
NET Job No: 96.00684
Received: 02/27/1996

Client Reference Information

Shell 6039 College Ave., Oakland, CA/960224-K3

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

Submitted by:


Ginger Brinlee
Project Coordinator

Enclosure (s)



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 96.00684

Date: 03/06/1996
ELAP Cert: 1386
Page: 2

Ref: Shell 6039 College Ave., Oakland, CA/960224-K3

SAMPLE DESCRIPTION: MW1
NET SAMPLE NUMBER: 260984

DATE TAKEN: 02/24/1996
TIME TAKEN:

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Batch No.
5030/8015-M/8020 (Shell)								
DILUTION FACTOR*	1						02/28/1996	3565
Purgeable TPH	ND		50	ug/L	5030/M8015		02/28/1996	3565
Carbon Range: C6 to C12	--						02/28/1996	3565
8020 (GC, Liquid)	--						02/28/1996	3565
Benzene	ND		0.5	ug/L	8020		02/28/1996	3565
Toluene	ND		0.5	ug/L	8020		02/28/1996	3565
Ethylbenzene	ND		0.5	ug/L	8020		02/28/1996	3565
Xylenes (Total)	ND		0.5	ug/L	8020		02/28/1996	3565
SURROGATE RESULTS	--						02/28/1996	3565
Bromofluorobenzene (SURR)	96			% Rec.	8020		02/28/1996	3565

SAMPLE DESCRIPTION: MW2
NET SAMPLE NUMBER: 260985

DATE TAKEN: 02/24/1996
TIME TAKEN:

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Batch No.
5030/8015-M/8020 (Shell)								
DILUTION FACTOR*	1						02/28/1996	3565
Purgeable TPH	ND		50	ug/L	5030/M8015		02/28/1996	3565
Carbon Range: C6 to C12	--						02/28/1996	3565
8020 (GC, Liquid)	--						02/28/1996	3565
Benzene	ND		0.5	ug/L	8020		02/28/1996	3565
Toluene	ND		0.5	ug/L	8020		02/28/1996	3565
Ethylbenzene	ND		0.5	ug/L	8020		02/28/1996	3565
Xylenes (Total)	ND		0.5	ug/L	8020		02/28/1996	3565
SURROGATE RESULTS	--						02/28/1996	3565
Bromofluorobenzene (SURR)	96			% Rec.	8020		02/28/1996	3565

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: 96.00684

Date: 03/06/1996
ELAP Cert: 1386
Page: 3

Ref: Shell 6039 College Ave., Oakland, CA/960224-K3

SAMPLE DESCRIPTION: MW3
NET SAMPLE NUMBER: 260986

DATE TAKEN: 02/24/1996
TIME TAKEN:

Parameter	Results	Flags	Reporting		Method	Date	Date	Batch
			Limit	Units		Extracted	Analyzed	No.
Oil & Grease (Total)	ND		5,000	ug/L	5520B		02/28/1996	387
Oil & Grease (Non-Polar)	ND		5,000	ug/L	5520B/F		02/28/1996	369
5030/8015-M/8020 (Shell)								
DILUTION FACTOR*	1						02/28/1996	3565
Purgeable TPH	3,300		50	ug/L	5030/M8015		02/28/1996	3565
Carbon Range: C6 to C12	--						02/28/1996	3565
8020 (GC, Liquid)	--						02/28/1996	3565
Benzene	240	FC	5	ug/L	8020		02/29/1996	3568
Toluene	53		0.5	ug/L	8020		02/28/1996	3565
Ethylbenzene	38		0.5	ug/L	8020		02/28/1996	3565
Xylenes (Total)	55		0.5	ug/L	8020		02/28/1996	3565
SURROGATE RESULTS	--						02/28/1996	3565
Bromofluorobenzene (SURR)	91			% Rec.	8020		02/29/1996	3568

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: 96.00684

Date: 03/06/1996
 ELAP Cert: 1386
 Page: 4

Ref: Shell 6039 College Ave., Oakland, CA/960224-K3

SAMPLE DESCRIPTION: MW3
 NET SAMPLE NUMBER: 260986

DATE TAKEN: 02/24/1996
 TIME TAKEN:

Parameter	Results	Flags	Reporting		Method	Date	Date	Batch No.
			Limit	Units		Extracted	Analyzed	
8270(GCMS, Liquid)						03/01/1996		
DILUTION FACTOR*	1						03/05/1996	746
Acenaphthene	ND		10	ug/L	8270		03/05/1996	746
Acenaphthylene	ND		10	ug/L	8270		03/05/1996	746
Aldrin	ND		50	ug/L	8270		03/05/1996	746
Anthracene	ND		10	ug/L	8270		03/05/1996	746
Benzidine	ND		44	ug/L	8270		03/05/1996	746
Benzo(a)anthracene	ND		10	ug/L	8270		03/05/1996	746
Benzo(b)fluoranthene	ND		10	ug/L	8270		03/05/1996	746
Benzo(k)fluoranthene	ND		10	ug/L	8270		03/05/1996	746
Benzo(a)pyrene	ND		10	ug/L	8270		03/05/1996	746
Benzo(g,h,i)perylene	ND		10	ug/L	8270		03/05/1996	746
Benzoic acid	ND		50	ug/L	8270		03/05/1996	746
Benzyl alcohol	ND		10	ug/L	8270		03/05/1996	746
Butyl benzyl phthalate	ND		10	ug/L	8270		03/05/1996	746
delta-BHC	ND		50	ug/L	8270		03/05/1996	746
gamma-BHC	ND		50	ug/L	8270		03/05/1996	746
bis(2-Chloroethyl)ether	ND		10	ug/L	8270		03/05/1996	746
bis(2-Chloroethoxy)methane	ND		10	ug/L	8270		03/05/1996	746
bis(2-Chloroisopropyl)ether	ND		10	ug/L	8270		03/05/1996	746
bis(2-Ethylhexyl)phthalate	ND		10	ug/L	8270		03/05/1996	746
4-Bromophenyl phenyl ether	ND		10	ug/L	8270		03/05/1996	746
4-Chloroaniline	ND		10	ug/L	8270		03/05/1996	746
2-Chloronaphthalene	ND		10	ug/L	8270		03/05/1996	746
4-Chlorophenyl phenyl ether	ND		10	ug/L	8270		03/05/1996	746
Chrysene	ND		10	ug/L	8270		03/05/1996	746
4,4'-DDD	ND		50	ug/L	8270		03/05/1996	746
4,4'-DDE	ND		50	ug/L	8270		03/05/1996	746
4,4'-DDT	ND		50	ug/L	8270		03/05/1996	746
Dibenzo(a,h)anthracene	ND		10	ug/L	8270		03/05/1996	746
Dibenzofuran	ND		10	ug/L	8270		03/05/1996	746
Di-n-butylphthalate	ND		10	ug/L	8270		03/05/1996	746
1,2-Dichlorobenzene	ND		10	ug/L	8270		03/05/1996	746
1,3-Dichlorobenzene	ND		10	ug/L	8270		03/05/1996	746
1,4-Dichlorobenzene	ND		10	ug/L	8270		03/05/1996	746
3,3'-Dichlorobenzidine	ND		20	ug/L	8270		03/05/1996	746
Dieldrin	ND		50	ug/L	8270		03/05/1996	746
Diethylphthalate	ND		10	ug/L	8270		03/05/1996	746
Dimethyl phthalate	ND		10	ug/L	8270		03/05/1996	746
2,4-Dinitrotoluene	ND		10	ug/L	8270		03/05/1996	746
2,6-Dinitrotoluene	ND		10	ug/L	8270		03/05/1996	746

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: 96.00684

Date: 03/06/1996
 ELAP Cert: 1386
 Page: 5

Ref: Shell 6039 College Ave., Oakland, CA/960224-K3

SAMPLE DESCRIPTION: MW3
 NET SAMPLE NUMBER: 260986

DATE TAKEN: 02/24/1996
 TIME TAKEN:

Parameter	Results	Flags	Reporting		Method	Date	Date	Batch
			Limit	Units		Extracted	Analyzed	
Di-n-octyl phthalate	ND		10	ug/L	8270		03/05/1996	746
Endrin aldehyde	ND		50	ug/L	8270		03/05/1996	746
Fluoranthene	ND		10	ug/L	8270		03/05/1996	746
Fluorene	ND		10	ug/L	8270		03/05/1996	746
Heptachlor	ND		50	ug/L	8270		03/05/1996	746
Heptachlor epoxide	ND		50	ug/L	8270		03/05/1996	746
Hexachlorobenzene	ND		10	ug/L	8270		03/05/1996	746
Hexachlorobutadiene	ND		10	ug/L	8270		03/05/1996	746
Hexachlorocyclopentadiene	ND		10	ug/L	8270		03/05/1996	746
Hexachloroethane	ND		10	ug/L	8270		03/05/1996	746
Indeno(1,2,3-cd)pyrene	ND		10	ug/L	8270		03/05/1996	746
Isophorone	ND		10	ug/L	8270		03/05/1996	746
2-Methylnaphthalene	ND		10	ug/L	8270		03/05/1996	746
Naphthalene	42		10	ug/L	8270		03/05/1996	746
2-Nitroaniline	ND		50	ug/L	8270		03/05/1996	746
3-Nitroaniline	ND		50	ug/L	8270		03/05/1996	746
4-Nitroaniline	ND		50	ug/L	8270		03/05/1996	746
Nitrobenzene	ND		10	ug/L	8270		03/05/1996	746
N-Nitroso-Di-N-propylamine	ND		10	ug/L	8270		03/05/1996	746
N-Nitrosodiphenylamine	ND		10	ug/L	8270		03/05/1996	746
Phenanthrene	ND		10	ug/L	8270		03/05/1996	746
Pyrene	ND		10	ug/L	8270		03/05/1996	746
1,2,4-Trichlorobenzene	ND		10	ug/L	8270		03/05/1996	746
ACID EXTRACTABLES	--						03/05/1996	746
4-Chloro-3-methylphenol	ND		10	ug/L	8270		03/05/1996	746
2-Chlorophenol	ND		10	ug/L	8270		03/05/1996	746
2,4-Dichlorophenol	ND		10	ug/L	8270		03/05/1996	746
2,4-Dimethylphenol	ND		10	ug/L	8270		03/05/1996	746
2,4-Dinitrophenol	ND		50	ug/L	8270		03/05/1996	746
4,6-Dinitro-2-methylphenol	ND		50	ug/L	8270		03/05/1996	746
2-Nitrophenol	ND		10	ug/L	8270		03/05/1996	746
4-Nitrophenol	ND		50	ug/L	8270		03/05/1996	746
Pentachlorophenol	ND		50	ug/L	8270		03/05/1996	746
Phenol	ND		10	ug/L	8270		03/05/1996	746
2,4,6-Trichlorophenol	ND		10	ug/L	8270		03/05/1996	746
2-Methylphenol	ND		10	ug/L	8270		03/05/1996	746
4-Methylphenol	ND		10	ug/L	8270		03/05/1996	746
2,4,5-Trichlorophenol	ND		50	ug/L	8270		03/05/1996	746
SURROGATE RESULTS	--						03/05/1996	746
Nitrobenzene-d5 (SURR)	79			‡ Rec.	8270		03/05/1996	746
2-Fluorobiphenyl (SURR)	87			‡ Rec.	8270		03/05/1996	746

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: 96.00684

Date: 03/06/1996
ELAP Cert: 1386
Page: 7

Ref: Shell 6039 College Ave., Oakland, CA/960224-K3

SAMPLE DESCRIPTION: EB
NET SAMPLE NUMBER: 260987

DATE TAKEN: 02/24/1996
TIME TAKEN:

Parameter	Results	Flags	Reporting		Method	Date	Date	Batch No.
			Limit	Units		Extracted	Analyzed	
5030/8015-M/8020 (Shell)								
DILUTION FACTOR*	1						02/28/1996	3565
Purgeable TPH	ND		50	ug/L	5030/M8015		02/28/1996	3565
Carbon Range: C6 to C12	--						02/28/1996	3565
8020 (GC, Liquid)								
Benzene	ND		0.5	ug/L	8020		02/28/1996	3565
Toluene	ND		0.5	ug/L	8020		02/28/1996	3565
Ethylbenzene	ND		0.5	ug/L	8020		02/28/1996	3565
Xylenes (Total)	ND		0.5	ug/L	8020		02/28/1996	3565
SURROGATE RESULTS								
Bromofluorobenzene (SURR)	94			% Rec.	8020		02/28/1996	3565

SAMPLE DESCRIPTION: DUP
NET SAMPLE NUMBER: 260988

DATE TAKEN: 02/24/1996
TIME TAKEN:

Parameter	Results	Flags	Reporting		Method	Date	Date	Batch No.
			Limit	Units		Extracted	Analyzed	
5030/8015-M/8020 (Shell)								
DILUTION FACTOR*	1						02/29/1996	3568
Purgeable TPH	ND		50	ug/L	5030/M8015		02/29/1996	3568
Carbon Range: C6 to C12	--						02/29/1996	3568
8020 (GC, Liquid)								
Benzene	ND		0.5	ug/L	8020		02/29/1996	3568
Toluene	ND		0.5	ug/L	8020		02/29/1996	3568
Ethylbenzene	ND		0.5	ug/L	8020		02/29/1996	3568
Xylenes (Total)	ND		0.5	ug/L	8020		02/29/1996	3568
SURROGATE RESULTS								
Bromofluorobenzene (SURR)	86			% Rec.	8020		02/29/1996	3568

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: 96.00684

Date: 03/06/1996
ELAP Cert: 1386
Page: 6

Ref: Shell 6039 College Ave., Oakland, CA/960224-K3

SAMPLE DESCRIPTION: MW3
NET SAMPLE NUMBER: 260986

DATE TAKEN: 02/24/1996
TIME TAKEN:

Parameter	Results	Reporting			Method	Date	Date	Batch No.
		Flags	Limit	Units		Extracted	Analyzed	
p-Terphenyl-d14 (SURR)	59			% Rec.	8270		03/05/1996	746
Phenol-d5 (SURR)	30			% Rec.	8270		03/05/1996	746
2-Fluorophenol (SURR)	35			% Rec.	8270		03/05/1996	746
2,4,6-Tribromophenol (SURR)	78			% Rec.	8270		03/05/1996	746

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: 96.00684

Date: 03/06/1996
ELAP Cert: 1386
Page: 8

Ref: Shell 6039 College Ave., Oakland, CA/960224-K3

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					
5030/8015-M/8020 (Shell)								
Purgeable TPH	92.0	0.46	0.50		mg/L	02/28/1996	lss	3565
Benzene	91.6	4.58	5.00		ug/L	02/28/1996	lss	3565
Toluene	87.2	4.36	5.00		ug/L	02/28/1996	lss	3565
Ethylbenzene	91.2	4.56	5.00		ug/L	02/28/1996	lss	3565
Xylenes (Total)	92.0	13.8	15.0		ug/L	02/28/1996	lss	3565
Bromofluorobenzene (SURR)	88.0	88	100		% Rec.	02/28/1996	lss	3565
5030/8015-M/8020 (Shell)								
Purgeable TPH	96.0	0.48	0.50		mg/L	02/29/1996	aal	3568
Benzene	96.2	4.81	5.00		ug/L	02/29/1996	aal	3568
Toluene	91.8	4.59	5.00		ug/L	02/29/1996	aal	3568
Ethylbenzene	96.6	4.83	5.00		ug/L	02/29/1996	aal	3568
Xylenes (Total)	98.0	14.7	15.0		ug/L	02/29/1996	aal	3568
Bromofluorobenzene (SURR)	93.0	93	100		% Rec.	02/29/1996	aal	3568

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: 96.00684

Date: 03/06/1996
 ELAP Cert: 1386
 Page: 9

Ref: Shell 6039 College Ave., Oakland, CA/960224-K3

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					
8270 (GCMS, Liquid)								
Acenaphthene	84.0	67.2	80.0		ug/L	03/05/1996	gec	746
Benzo(a)pyrene	99.4	79.5	80.0		ug/L	03/05/1996	gec	746
1,4-Dichlorobenzene	95.6	76.5	80.0		ug/L	03/05/1996	gec	746
Di-n-octyl phthalate	85.1	68.1	80.0		ug/L	03/05/1996	gec	746
Fluoranthene	94.6	75.7	80.0		ug/L	03/05/1996	gec	746
Hexachlorobutadiene	96.3	77.0	80.0		ug/L	03/05/1996	gec	746
N-Nitrosodiphenylamine	88.5	70.8	80.0		ug/L	03/05/1996	gec	746
4-Chloro-3-methylphenol	89.9	71.9	80.0		ug/L	03/05/1996	gec	746
2,4-Dichlorophenol	90.6	72.5	80.0		ug/L	03/05/1996	gec	746
2-Nitrophenol	93.2	74.6	80.0		ug/L	03/05/1996	gec	746
Pentachlorophenol	110.4	88.3	80.0		ug/L	03/05/1996	gec	746
Phenol	95.0	76.0	80.0		ug/L	03/05/1996	gec	746
2,4,6-Trichlorophenol	92.3	73.8	80.0		ug/L	03/05/1996	gec	746
Nitrobenzene-d5 (SURR)	91.0	91	100		% Rec.	03/05/1996	gec	746
2-Fluorobiphenyl (SURR)	91.0	91	100		% Rec.	03/05/1996	gec	746
p-Terphenyl-d14 (SURR)	82.0	82	100		% Rec.	03/05/1996	gec	746
Phenol-d5 (SURR)	93.0	93	100		% Rec.	03/05/1996	gec	746
2-Fluorophenol (SURR)	95.0	95	100		% Rec.	03/05/1996	gec	746
2,4,6-Tribromophenol (SURR)	125.0	125	100		% Rec.	03/05/1996	gec	746

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: 96.00684

Date: 03/06/1996
ELAP Cert: 1386
Page: 10

Ref: Shell 6039 College Ave., Oakland, CA/960224-K3

METHOD BLANK REPORT

Parameter	Method	Reporting	Flags	Units	Date	Analyst	Run
	Blank				Amount	Limit	Analyzed
	Found						Number
Oil & Grease (Total)	ND	5		mg/L	02/28/1996	shr	387
Oil & Grease (Non-Polar)	ND	5		mg/L	02/28/1996	shr	369
5030/8015-M/8020 (Shell)							
Purgeable TPH	ND	0.05		mg/L	02/28/1996	lss	3565
Benzene	ND	0.5		ug/L	02/28/1996	lss	3565
Toluene	ND	0.5		ug/L	02/28/1996	lss	3565
Ethylbenzene	ND	0.5		ug/L	02/28/1996	lss	3565
Xylenes (Total)	ND	0.5		ug/L	02/28/1996	lss	3565
Bromofluorobenzene (SURR)	93			% Rec.	02/28/1996	lss	3565
5030/8015-M/8020 (Shell)							
Purgeable TPH	ND	0.05		mg/L	02/29/1996	aal	3568
Benzene	ND	0.5		ug/L	02/29/1996	aal	3568
Toluene	ND	0.5		ug/L	02/29/1996	aal	3568
Ethylbenzene	ND	0.5		ug/L	02/29/1996	aal	3568
Xylenes (Total)	ND	0.5		ug/L	02/29/1996	aal	3568
Bromofluorobenzene (SURR)	97			% Rec.	02/29/1996	aal	3568

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

Client Name: Blaine Tech Services

Date: 03/06/1996

Client Acct: 1821

ELAP Cert: 1386

NET Job No: 96.00684

Page: 11

Ref: Shell 6039 College Ave., Oakland, CA/960224-K3

METHOD BLANK REPORT

Parameter	Method		Reporting	Flags	Units	Date	Analyst	Run
	Blank	Amount						
	Found							Number
8270 (GCMS, Liquid)								
Acenaphthene	ND	10			ug/L	03/05/1996	gec	746
Acenaphthylene	ND	10			ug/L	03/05/1996	gec	746
Aldrin	ND	50			ug/L	03/05/1996	gec	746
Anthracene	ND	10			ug/L	03/05/1996	gec	746
Benzidine	ND	44			ug/L	03/05/1996	gec	746
Benzo(a)anthracene	ND	10			ug/L	03/05/1996	gec	746
Benzo(b)fluoranthene	ND	10			ug/L	03/05/1996	gec	746
Benzo(k)fluoranthene	ND	10			ug/L	03/05/1996	gec	746
Benzo(a)pyrene	ND	10			ug/L	03/05/1996	gec	746
Benzo(g,h,i)perylene	ND	10			ug/L	03/05/1996	gec	746
Benzoic acid	ND	50			ug/L	03/05/1996	gec	746
Benzyl alcohol	ND	10			ug/L	03/05/1996	gec	746
Butyl benzyl phthalate	ND	10			ug/L	03/05/1996	gec	746
delta-BHC	ND	50			ug/L	03/05/1996	gec	746
gamma-BHC	ND	50			ug/L	03/05/1996	gec	746
bis(2-Chloroethyl)ether	ND	10			ug/L	03/05/1996	gec	746
bis(2-Chloroethoxy)methane	ND	10			ug/L	03/05/1996	gec	746
bis(2-Chloroisopropyl)ether	ND	10			ug/L	03/05/1996	gec	746
bis(2-Ethylhexyl)phthalate	ND	10			ug/L	03/05/1996	gec	746
4-Bromophenyl phenyl ether	ND	10			ug/L	03/05/1996	gec	746
4-Chloroaniline	ND	10			ug/L	03/05/1996	gec	746
2-Chloronaphthalene	ND	10			ug/L	03/05/1996	gec	746
4-Chlorophenyl phenyl ether	ND	10			ug/L	03/05/1996	gec	746
Chrysene	ND	10			ug/L	03/05/1996	gec	746
4,4'-DDD	ND	50			ug/L	03/05/1996	gec	746
4,4'-DDE	ND	50			ug/L	03/05/1996	gec	746
4,4'-DDT	ND	50			ug/L	03/05/1996	gec	746
Dibenzo(a,h)anthracene	ND	10			ug/L	03/05/1996	gec	746
Dibenzofuran	ND	10			ug/L	03/05/1996	gec	746
Di-n-butylphthalate	ND	10			ug/L	03/05/1996	gec	746
1,2-Dichlorobenzene	ND	10			ug/L	03/05/1996	gec	746
1,3-Dichlorobenzene	ND	10			ug/L	03/05/1996	gec	746
1,4-Dichlorobenzene	ND	10			ug/L	03/05/1996	gec	746
3,3'-Dichlorobenzidine	ND	20			ug/L	03/05/1996	gec	746
Dieldrin	ND	50			ug/L	03/05/1996	gec	746
Diethylphthalate	ND	10			ug/L	03/05/1996	gec	746
Dimethyl phthalate	ND	10			ug/L	03/05/1996	gec	746
2,4-Dinitrotoluene	ND	10			ug/L	03/05/1996	gec	746
2,6-Dinitrotoluene	ND	10			ug/L	03/05/1996	gec	746
Di-n-octyl phthalate	ND	10			ug/L	03/05/1996	gec	746

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: 96.00684

Date: 03/06/1996
ELAP Cert: 1386
Page: 12

Ref: Shell 6039 College Ave., Oakland, CA/960224-K3

METHOD BLANK REPORT

Parameter	Method	Reporting	Flags	Units	Date	Analyst	Run
	Blank						
Endrin aldehyde	ND	50		ug/L	03/05/1996	gec	746
Fluoranthene	ND	10		ug/L	03/05/1996	gec	746
Fluorene	ND	10		ug/L	03/05/1996	gec	746
Heptachlor	ND	50		ug/L	03/05/1996	gec	746
Heptachlor epoxide	ND	50		ug/L	03/05/1996	gec	746
Hexachlorobenzene	ND	10		ug/L	03/05/1996	gec	746
Hexachlorobutadiene	ND	10		ug/L	03/05/1996	gec	746
Hexachlorocyclopentadiene	ND	10		ug/L	03/05/1996	gec	746
Hexachloroethane	ND	10		ug/L	03/05/1996	gec	746
Indeno(1,2,3-cd)pyrene	ND	10		ug/L	03/05/1996	gec	746
Isophorone	ND	10		ug/L	03/05/1996	gec	746
2-Methylnaphthalene	ND	10		ug/L	03/05/1996	gec	746
Naphthalene	ND	10		ug/L	03/05/1996	gec	746
2-Nitroaniline	ND	50		ug/L	03/05/1996	gec	746
3-Nitroaniline	ND	50		ug/L	03/05/1996	gec	746
4-Nitroaniline	ND	50		ug/L	03/05/1996	gec	746
Nitrobenzene	ND	10		ug/L	03/05/1996	gec	746
N-Nitroso-Di-N-propylamine	ND	10		ug/L	03/05/1996	gec	746
N-Nitrosodiphenylamine	ND	10		ug/L	03/05/1996	gec	746
Phenanthrene	ND	10		ug/L	03/05/1996	gec	746
Pyrene	ND	10		ug/L	03/05/1996	gec	746
1,2,4-Trichlorobenzene	ND	10		ug/L	03/05/1996	gec	746
4-Chloro-3-methylphenol	ND	10		ug/L	03/05/1996	gec	746
2-Chlorophenol	ND	10		ug/L	03/05/1996	gec	746
2,4-Dichlorophenol	ND	10		ug/L	03/05/1996	gec	746
2,4-Dimethylphenol	ND	10		ug/L	03/05/1996	gec	746
2,4-Dinitrophenol	ND	50		ug/L	03/05/1996	gec	746
4,6-Dinitro-2-methylphenol	ND	50		ug/L	03/05/1996	gec	746
2-Nitrophenol	ND	10		ug/L	03/05/1996	gec	746
4-Nitrophenol	ND	50		ug/L	03/05/1996	gec	746
Pentachlorophenol	ND	50		ug/L	03/05/1996	gec	746
Phenol	ND	10		ug/L	03/05/1996	gec	746
2,4,6-Trichlorophenol	ND	10		ug/L	03/05/1996	gec	746
2-Methylphenol	ND	10		ug/L	03/05/1996	gec	746
4-Methylphenol	ND	10		ug/L	03/05/1996	gec	746
2,4,5-Trichlorophenol	ND	50		ug/L	03/05/1996	gec	746
Nitrobenzene-d5 (SURR)	76			% Rec.	03/05/1996	gec	746
2-Fluorobiphenyl (SURR)	79			% Rec.	03/05/1996	gec	746
p-Terphenyl-d14 (SURR)	57			% Rec.	03/05/1996	gec	746
Phenol-d5 (SURR)	31			% Rec.	03/05/1996	gec	746
2-Fluorophenol (SURR)	45			% Rec.	03/05/1996	gec	746

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: 96.00684

Date: 03/06/1996
ELAP Cert: 1386
Page: 13

Ref: Shell 6039 College Ave., Oakland, CA/960224-K3

METHOD BLANK REPORT

<u>Parameter</u>	<u>Method</u> <u>Blank</u> <u>Amount</u> <u>Found</u>	<u>Reporting</u> <u>Limit</u>	<u>Flags</u>	<u>Units</u>	<u>Date</u> <u>Analyzed</u>	<u>Analyst</u> <u>Initials</u>	<u>Run</u> <u>Batch</u> <u>Number</u>
2,4,6-Tribromophenol (SURR)	83			% Rec.	03/05/1996	gec	746

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: 96.00684

Date: 03/06/1996
 ELAP Cert: 1386
 Page: 14

Ref: Shell 6039 College Ave., Oakland, CA/960224-K3

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike		RPD	Spike Amount	Sample Conc.	Matrix Spike Dup.		Flags	Units	Date Analyzed	Run Batch	Sample Spiked
	% Rec.	% Rec.				Conc.	Conc.					
Oil & Grease (Total)	95.4	95.2	0.2	108.1	ND	103.1	115.8		mg/L	02/28/1996	387	260912
Oil & Grease (Non-Polar)	93.4	91.4	2.2	108.1	ND	101.0	111.2		mg/L	02/28/1996	369	260912
5030/8015-M/8020 (Shell)												260838
Purgeable TPH	96.0	92.0	4.3	0.50	ND	0.48	0.46		mg/L	02/28/1996	3565	260838
Benzene	103.7	100.0	3.6	6.57	ND	6.81	6.57		ug/L	02/28/1996	3565	260838
Toluene	103.2	100.0	3.1	24.8	ND	25.6	24.8		ug/L	02/28/1996	3565	260838
Bromofluorobenzene (SURR)	100.0	96.0	4.0	100	84	100	96		% Rec.	02/28/1996	3565	260838

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

Client Name: Blaine Tech Services

Date: 03/06/1996

Client Acct: 1821

ELAP Cert: 1386

NET Job No: 96.00684

Page: 15

Ref: Shell 6039 College Ave., Oakland, CA/960224-K3

LABORATORY CONTROL SAMPLE REPORT

Parameter	DUP		RPD	LCS			Flags	Units	Date Analyzed	Analyst Initials	Run Batch
	LCS % Rec.	LCS % Rec.		LCS Amount Found	LCS Amount Found	LCS Amount Exp.					
Oil & Grease (Total)	96.8			116.2		120.1		mg/L	02/28/1996	shr	387
Oil & Grease (Total)	96.5			119.6		123.9		mg/L	02/28/1996	shr	387
Oil & Grease (Non-Polar)	93.8			112.7		120.1		mg/L	02/28/1996	shr	369
8270 (GCMS, Liquid)											
Acenaphthene	95.0	99.0	4.1	95	99	100		ug/L	03/05/1996	gec	746
1,4-Dichlorobenzene	81.0	82.0	1.2	81	82	100		ug/L	03/05/1996	gec	746
2,4-Dinitrotoluene	109.0	117.0	7.1	109	117	100		ug/L	03/05/1996	gec	746
N-Nitroso-Di-N-propylamine	83.0	84.0	1.2	83	84	100		ug/L	03/05/1996	gec	746
Pyrene	98.0	102.0	3.9	98	102	100		ug/L	03/05/1996	gec	746
1,2,4-Trichlorobenzene	93.0	96.0	3.2	93	96	100		ug/L	03/05/1996	gec	746
4-Chloro-3-methylphenol	75.5	73.5	2.7	151	147	200		ug/L	03/05/1996	gec	746
2-Chlorophenol	73.0	67.0	8.6	146	134	200		ug/L	03/05/1996	gec	746
4-Nitrophenol	29.5	28.5	3.4	59	57	200		ug/L	03/05/1996	gec	746
Pentachlorophenol	108.5	109.0	0.5	217	218	200		ug/L	03/05/1996	gec	746
Phenol	28.0	25.5	9.3	56	51	200		ug/L	03/05/1996	gec	746
Nitrobenzene-d5 (SURR)	81.0	86.0	6.0	81	86	100		% Rec.	03/05/1996	gec	746
2-Fluorobiphenyl (SURR)	93.0	95.0	2.1	93	95	100		% Rec.	03/05/1996	gec	746
p-Terphenyl-d14 (SURR)	88.0	90.0	2.2	88	90	100		% Rec.	03/05/1996	gec	746
Phenol-d5 (SURR)	29.0	23.0	23.1	29	23	100		% Rec.	03/05/1996	gec	746
2-Fluorophenol (SURR)	38.0	34.0	11.1	38	34	100		% Rec.	03/05/1996	gec	746
2,4,6-Tribromophenol (SURR)	101.0	95.0	6.0	101	95	100		% Rec.	03/05/1996	gec	746

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



KEY TO RESULT FLAGS

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

KEY TO ABBREVIATIONS

ICVS	: Initial Calibration Verification Standard (External Standard).
mean	: Average; sum of measurements divided by number of measurements.
mg/Kg	: Concentration in units of milligrams of analyte per kilogram of sample.
mg/L	: Concentration in units of milligrams of analyte per liter of sample.
mL/L/hr	: Milliliters per liter per hour.
MPN/100 mL	: Most probable number of bacteria per one hundred milliliters of sample.
N/A	: Not applicable.
NA	: Not analyzed.
ND	: Not detected.
NTU	: Nephelometric turbidity units.
RPD	: Relative percent difference.
SNA	: Standard not available.
ug/Kg	: Concentration in units of micrograms of analyte per kilogram of sample.
ug/L	: Concentration in units of micrograms of analyte per liter of sample.
umhos/cm	: Micromhos per centimeter.

#0429



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: 980224-13

Date: 2/24/96

Page 1 of 1

Silo Address: 6039 College Ave., Oakland

WIC#: 204-5508-3301

Shell Engineer: Keith R. Jeff Granberry Phone No.: (510) 675-6168
 Fax #: 675-6160

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

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

Comments:

Sampled by: KCB
 Printed Name: Keith Brown

Analysis Required

LAB: WU

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

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

Sample ID	Date	Sludge	Soil	Water	Air	No. of conds.
NW1	2/24			X		3
NW2	1					3
NW3	X					7
EB	✓					3
PUP	✓					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	SVOE	PCOC	Asbestos	Container Size	Preparation Used	Composite Y/N
-------------------------	----------------------------	---------------------	------------------------------	-------------------	----------------------------------	------	------	----------	----------------	------------------	---------------

MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS

CUSTODY SEALED
 Date 2/24/96 Time 19:16 Initials KB
SEAL INTACT?
 Yes No Initials AG

Relinquished By (signature): <u>[Signature]</u>	Printed Name: <u>Keith Brown</u>	Date: <u>2/24/96</u>	Received (signature): <u>[Signature]</u>	Printed Name: <u>P. Smart</u>	Date: <u>2/24/96</u>
Relinquished By (signature): <u>[Signature]</u>	Printed Name: <u>P. Smart</u>	Date: <u>2/24/96</u>	Received (signature): <u>[Signature]</u>	Printed Name: <u>PAM GREENE</u>	Date: <u>2/27/96</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 NG

Shell Oil Company

CLIENT: 960224-K3 JOB #: _____ LOG #: 0429
Project ID: 960224-K3
Samples Received On: 2/27/96 Checked in on: 2/27/96

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

3) Type of packing material used: ice

4) Temperature(s) 1°, 1° °C Thermometer #(s) _____

5) Sample Container(s) Intact Broken _____

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

7) Sample Volume Sufficient Insufficient _____

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

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

Sample ID	# of Vials	Sample ID	# of Vials

10) Form Completed By: [Signature] Date: 2/27/96
Attach shipper's packing slip to this form before routing

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

Project Coordinator: _____ Date _____ Resolved: Y N
Comments: _____



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

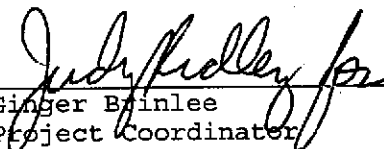
Date: 03/07/1996
NET Client Acct. No: 1821
NET Job No: 96.00769
Received: 03/01/1996

Client Reference Information

Shell 6039 College Ave., Oakland, CA/960228-L2

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

Submitted by:


Ginger Brinlee
Project Coordinator

Enclosure (s)



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 96.00769

Date: 03/07/1996
ELAP Cert: 1386
Page: 2

Ref: Shell 6039 College Ave., Oakland, CA/960228-L2

SAMPLE DESCRIPTION: MW-5
NET SAMPLE NUMBER: 261358

DATE TAKEN: 02/28/1996
TIME TAKEN:

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Batch No.
			Limit				Extracted	Analyzed	
5030/8015-M/8020 (Shell)									
DILUTION FACTOR*	1							03/06/1996	3575
Purgeable TPH	510		50		ug/L	5030/M8015		03/06/1996	3575
Carbon Range: C6 to C12	--							03/06/1996	3575
8020 (GC, Liquid)	--							03/06/1996	3575
Benzene	ND		0.5		ug/L	8020		03/06/1996	3575
Toluene	ND		0.5		ug/L	8020		03/06/1996	3575
Ethylbenzene	ND		0.5		ug/L	8020		03/06/1996	3575
Xylenes (Total)	ND		0.5		ug/L	8020		03/06/1996	3575
SURROGATE RESULTS	--							03/06/1996	3575
Bromofluorobenzene (SURR)	85				µ Rec.	8020		03/06/1996	3575

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: 96.00769

Date: 03/07/1996
ELAP Cert: 1386
Page: 3

Ref: Shell 6039 College Ave., Oakland, CA/960228-L2

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV	CCV	Flags	Units	Date Analyzed	Analyst Initials	Run Batch Number
	Standard % Recovery	Standard Amount Found					
5030/8015-M/8020 (Shell)							
Purgeable TPH	102.0	0.51	0.50	mg/L	03/05/1996	lss	3575
Benzene	91.8	4.59	5.00	ug/L	03/05/1996	lss	3575
Toluene	88.6	4.43	5.00	ug/L	03/05/1996	lss	3575
Ethylbenzene	92.0	4.60	5.00	ug/L	03/05/1996	lss	3575
Xylenes (Total)	92.7	13.9	15.0	ug/L	03/05/1996	lss	3575
Bromofluorobenzene (SURRE)	98.0	98	100	% Rec.	03/05/1996	lss	3575

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: 96.00769

Date: 03/07/1996
ELAP Cert: 1386
Page: 4

Ref: Shell 6039 College Ave., Oakland, CA/960228-L2

METHOD BLANK REPORT

Parameter	Method Blank Amount Found	Reporting Limit	Flags	Units	Date Analyzed	Analyst Initials	Run Batch Number
5030/8015-M/8020 (Shell)							
Purgeable TPH	ND	0.05		mg/L	03/05/1996	lss	3575
Benzene	ND	0.5		ug/L	03/05/1996	lss	3575
Toluene	ND	0.5		ug/L	03/05/1996	lss	3575
Ethylbenzene	ND	0.5		ug/L	03/05/1996	lss	3575
Xylenes (Total)	ND	0.5		ug/L	03/05/1996	lss	3575
Bromofluorobenzene (SURR)	96			* Rec.	03/05/1996	lss	3575

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: 96.00769

Date: 03/07/1996
 ELAP Cert: 1386
 Page: 5

Ref: Shell 6039 College Ave., Oakland, CA/960228-L2

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike		RPD	Spike Amount	Sample Conc.	Matrix Spike		Flags	Units	Date Analyzed	Run Batch	Sample
	Matrix Spike % Rec.	Matrix Spike Dup % Rec.				Matrix Spike Conc.	Matrix Spike Dup.					
5030/8015-M/8020 (Shell)												
Purgeable TPH	106.0	104.0	1.9	0.50	ND	0.53	0.52		mg/L	03/05/1996	3575	26
Benzene	108.6	106.1	2.3	6.94	ND	7.54	7.36		ug/L	03/05/1996	3575	26
Toluene	103.7	101.2	2.4	24.5	ND	25.4	24.8		ug/L	03/05/1996	3575	26
Bromofluorobenzene (SURR)	108.0	104.0	3.8	100	96	108	104		% Rec.	03/05/1996	3575	26

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



KEY TO RESULT FLAGS

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

KEY TO ABBREVIATIONS

ICVS : Initial Calibration Verification Standard (External Standard).

mean : Average; sum of measurements divided by number of measurements.

mg/Kg : Concentration in units of milligrams of analyte per kilogram of sample.

mg/L : Concentration in units of milligrams of analyte per liter of sample.

mL/L/hr : Milliliters per liter per hour.

MPN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.

N/A : Not applicable.

NA : Not analyzed.

ND : Not detected.

NTU : Nephelometric turbidity units.

RPD : Relative percent difference.

SNA : Standard not available.

ug/Kg : Concentration in units of micrograms of analyte per kilogram of sample.

ug/L : Concentration in units of micrograms of analyte per liter of sample.

umhos/cm : Micromhos per centimeter.



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 960228-LZ

0509
Date: 2-28-96
Page (of)

Site Address: 6039 College Ave., Oakland
WIC#: 204-5508-3301

Analysis Required

LAB: NET

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

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

Shell Engineer: Don ~~Kirk~~ R. Jeff Gramberry Phone No.: (510) 675-6168
Fax #: 675-6160

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

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

Comments:

Sampled by:

Printed Name: LAD OLVER

Sample ID	Date	Sludge	Soil	Water	Air	No. of Conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	Asbestos	Container Size	Preparation Used	Composite Y/N	
MW-5	2/18			X		3						X					

CUSTODY SEALED

Date: 2/29/96 Time: 10:15 Initials: CS
SEAL INTACT?
Yes No Initials: JA

Relinquished By (signature): [Signature] Printed Name: GRANT MORRIS Date: 2/29 Time: 16:16

Relinquished By (signature): [Signature] Printed Name: P. Smart Date: 2/29 Time: 20:15

Relinquished By (signature): [Signature] Printed Name: [Signature] Date: Time:

Received (signature): [Signature] Printed Name: P. Smart Date: 2/29/96 Time: 16:20

Received (signature): [Signature] Printed Name: FAM GREENG Date: 3/1/96 Time: 0:30

Received (signature): [Signature] Printed Name: [Signature] Date: Time:

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

CLIENT: Blaine Tech JOB #: _____ LOG #: 0509
Project ID: 9100278-L2
Samples Received On: 3/1/96 Checked in on: 3/1/96

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

3) Type of packing material used: 2ce

4) Temperature(s) 16 ° C Thermometer #(s) _____

5) Sample Container(s) Intact Broken _____

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

7) Sample Volume Sufficient Insufficient _____

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

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

Sample ID	# of Vials	Sample ID	# of Vials

10) Form Completed By: [Signature] Date: 3/1/96
Attach shipper's packing slip to this form before routing

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

Project Coordinator: _____ Date _____ Resolved: Y N
Comments: _____