



ROZZO

July 22, 1997

Barney Chan
Alameda County Department
of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Re: **Second Quarter 1997 Monitoring Report**
Shell Service Station
285 Hegenberger Road
Oakland, California
WIC #204-5508-5504
Cambria Project #240-314-297

Dear Mr. Chan:

On behalf of Shell Oil Products Company, Cambria Environmental Technology, Inc. (Cambria) is submitting this status report to satisfy the quarterly reporting requirements prescribed by California Administrative Code Title 23 Waters, Division 3, Chapter 16, Article 5, Section 2652.d. Presented below are a hydrocarbon removal summary, the second quarter 1997 activities, and the anticipated future activities.

Hydrocarbon Removal Summary

Hydrocarbon Removal	Cumulative (lbs)
Vapor-Phase	707
Total	707

CAMBRIA
ENVIRONMENTAL
TECHNOLOGY, INC.
1144 65TH STREET,
SUITE B
OAKLAND,
CA 94608
PH: (510) 420-0700
FAX: (510) 420-9170

The table above summarizes the historical vapor-phase hydrocarbons removal by soil vapor extraction. Soil vapor extraction system operation was discontinued on February 9, 1995.

Second Quarter 1997 Activities

Blaine Tech Services, Inc. (Blaine) of San Jose, California measured ground water depths and collected water samples from the site wells (Figure 1). The Blaine report, describing these sampling activities and presenting the analytic results is included as Attachment A. Cambria calculated ground water elevations (Table 1), compiled the analytic data (Table 2) and prepared a ground water elevation contour map (Figure 1).

Barney Chan
July 22, 1997

CAMBRIA

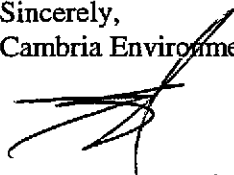
Anticipated Future Activities

The next sampling event is scheduled for fourth quarter 1997. At that time, Blaine will measure water levels, and collect ground water samples from selected site wells. Cambria will submit a report presenting a summary of the sampling activities.

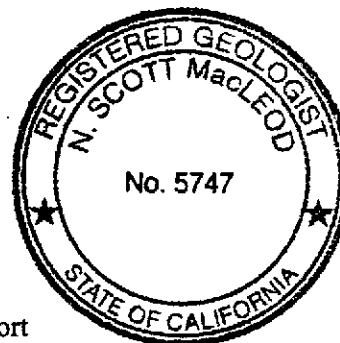
Closing

We appreciate the opportunity to work with you on this project. Please call if you have any questions.

Sincerely,
Cambria Environmental Technology, Inc.



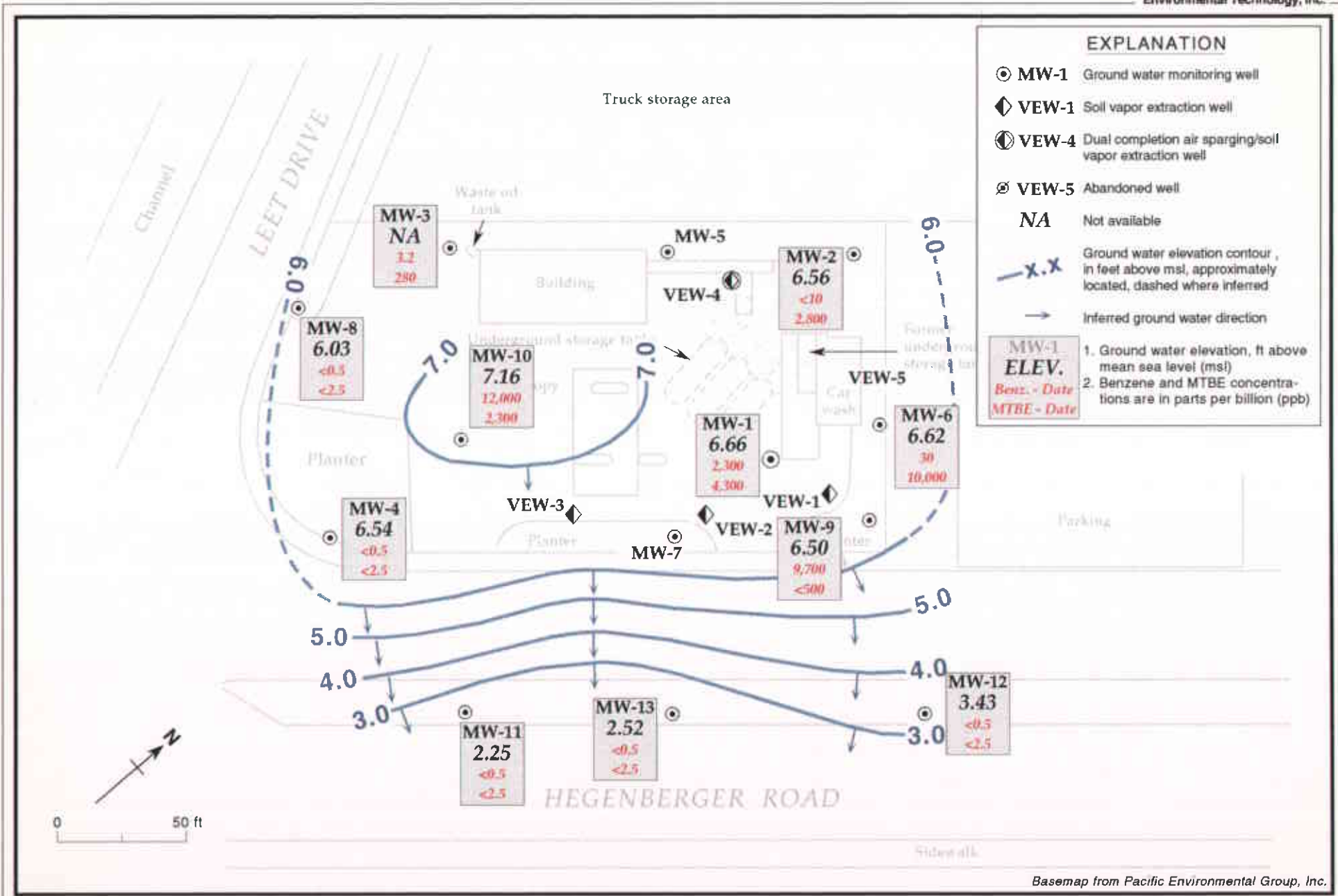
N. Scott MacLeod, R.G.
Principal Geologist



Attachments: A - Blaine Quarterly Ground Water Monitoring Report

cc: A. E. (Alex) Perez, Shell Oil Products Company, P.O. Box 4023 Concord, California 94524
Brad Boschetto, Shell Oil Products Company, P.O. Box 4023, Concord, California 94524
Anne Singley, Shell Oil Products Company, P.O. Box 4023, Concord, California 94524
Richard Hiatt, Regional Water Quality Control Board - San Francisco Bay Region, 2101
Webster Street, Suite 500, Oakland, California 94612
Ms. Terry O'Rourke, Port of Oakland, 530 Water Street, Oakland, CA, 94604

F:\PROJECTSHELL\OAK285\QM2Q97QM.WPD



Basemap from Pacific Environmental Group, Inc.

Figure 1. Ground Water Elevation Contours - April 3, 1997 - Shell Service Station - WIC# 204-5508-5504, 285 Hegenberger Road, Oakland, California

Table 1. Ground Water Elevations - Shell Service Station WIC #204-5508-5504, 285 Hegenberger Road, Oakland, California

Well Number	Date Sampled	Well Elevation (ft, MSL)	Depth to Water (ft, TOC)	Ground Water Elevation (ft, MSL)	
MW-1	02/16/89	6.64	3.83	2.81	
	05/23/89		3.59	3.05	
	08/03/89		4.04	2.60	
	12/15/89		4.22	2.42	
	02/07/90		4.60	2.04	
	04/18/90		4.02	2.62	
	07/23/90		4.17	2.47	
	09/27/90		4.60	2.04	
	01/03/91		4.88	1.76	
	04/10/91		3.55	3.09	
	07/12/91		3.97	2.67	
	10/08/91		4.26	2.38	
	02/06/92		4.94	1.70	
	05/04/92		3.58	3.06	
	07/28/92		3.91	2.73	
	10/27/92	4.79	1.85		
	01/14/93	3.39	3.25		
	04/23/93	2.67	3.97		
	07/20/93	9.50	3.48	6.02	
	10/18/93		4.20	5.30	
	01/06/94		4.13	5.37	
	04/12/94		2.42	7.08	
	07/25/94		3.37	6.13	
	10/25/94		4.07	5.43	
	01/09/95		2.65	6.85	
	04/11/95		2.38	7.12	
	07/18/95		3.49	6.01	
	10/18/95		← Well Inaccessible →		
	01/09/96			2.95	6.55
	04/02/96			2.00	7.50
10/03/96			3.21	6.29	
04/03/97			2.84	6.66	
MW-2	02/16/89		7.68	5.33	2.35
	05/23/89	5.23		2.45	
	08/03/89	6.03		1.65	
	12/15/89	6.43		1.25	
	02/07/90	5.82		1.86	
	04/18/90	5.88		1.80	
	07/23/90	6.05		1.63	
	01/03/91	6.82		0.86	
	04/10/91	4.80		2.88	
	07/12/91	5.70		1.98	
	10/08/91	6.40		1.28	
02/06/92	6.40	1.28			

Table 1. Ground Water Elevations - Shell Service Station WIC #204-5508-5504, 285 Hegenberger Road, Oakland, California

Well Number	Date Sampled	Well Elevation (ft, MSL)	Depth to Water (ft, TOC)	Ground Water Elevation (ft, MSL)
	05/04/92		4.68	3.00
	07/28/92		5.86	1.82
	10/27/92		6.96	0.72
	01/14/93		4.12	3.56
	04/23/93		3.84	3.84
	07/20/93	10.55	5.17	5.38
	10/18/93		6.20	4.35
	01/06/94		5.39	5.16
	04/12/94		4.72	5.83
	07/25/94		5.44	5.11
	10/25/94		6.73	3.82
	01/09/95		4.34	6.21
	04/11/95		3.72	6.83
	07/18/95		4.91	5.64
	10/18/95		5.88	4.67
	01/09/96		4.75	5.80
	04/02/96		3.25	7.30
	10/03/96		5.27	5.28
	04/03/97		3.99	6.56
MW-3	02/16/89	7.81	5.17	2.64
	05/23/89		5.09	2.72
	08/03/89		5.34	2.47
	12/15/89		6.02	1.79
	02/07/90		4.95	2.86
	04/18/90		5.55	2.26
	07/23/90		5.81	2.00
	09/27/90		6.86	0.95
	01/03/91		6.84	0.97
	04/10/91		4.93	2.88
	07/12/91		5.56	2.25
	10/08/91		6.62	1.19
	02/06/92		6.28	1.53
	05/04/92		4.65	3.16
	07/28/92		5.56	2.25
	10/27/92		6.65	1.16
	01/14/93		3.88	3.93
	04/23/93		Well Inaccessible	
	07/20/93	11.25 (TOB)	Well Inaccessible	
	10/18/93		Well Inaccessible	
	01/06/94		5.54	N/A
	04/12/94		4.82	N/A
	07/25/94		6.03 (TOB)	5.22
	10/25/94		6.48	N/A
	01/09/95		4.86 (TOB)	6.39

Table 1. Ground Water Elevations - Shell Service Station WIC #204-5508-5504, 285 Hegenberger Road, Oakland, California

Well Number	Date Sampled	Well Elevation (ft, MSL)	Depth to Water (ft, TOC)	Ground Water Elevation (ft, MSL)
	04/11/95		4.22 (TOB)	7.03
	07/18/95		5.44 (TOB)	5.81
	10/18/95		5.72	N/A
	01/09/96		4.96	N/A
	04/02/96		3.43	N/A
	10/03/96		5.39	N/A
	04/03/97		4.20	N/A
MW-4	05/23/89	7.38	5.60	1.78
	08/03/89		6.37	1.01
	12/15/89		6.91	0.47
	03/08/90		6.06	1.32
	04/18/90		5.84	1.54
	07/23/90		6.92	0.46
	07/23/90		6.92	0.46
	09/27/91		8.03	0.65
	01/03/91		7.54	-0.16
	04/10/91		5.06	2.32
	07/12/91		6.86	0.52
	10/08/91		7.44	-0.06
	02/06/92		7.29	0.09
	05/04/92		5.33	2.05
	07/28/92		6.95	0.43
	10/27/92		7.65	-0.27
	01/14/93		4.84	2.54
	04/23/93		4.84	2.54
	07/20/93	10.28	6.47	3.81
	10/18/93		7.35	2.93
	01/06/94		7.64	2.64
	04/12/94		6.39	3.89
	07/25/94		7.00	3.28
	10/25/94		7.53	2.75
	01/09/95		4.90	5.38
	04/11/95		5.04	5.24
	07/18/95		6.18	4.10
	10/18/95		6.63	3.65
	01/09/96		3.82	6.46
	04/02/96		3.97	6.31
	10/03/96		3.74	6.54
	04/03/97		3.74	6.54
MW-5	05/23/89	8.18	5.47	2.71
	08/03/89		5.94	2.24
	12/15/89		6.75	1.43
	02/07/90		6.03	2.15

Table 1. Ground Water Elevations - Shell Service Station WIC #204-5508-5504, 285 Hegenberger Road, Oakland, California

Well Number	Date Sampled	Well Elevation (ft, MSL)	Depth to Water (ft, TOC)	Ground Water Elevation (ft, MSL)
	04/18/90		5.80	2.38
	07/23/90		6.00	2.18
	09/23/90		7.18	1.00
	01/03/91		7.17	1.01
	04/10/91		5.25	2.93
	07/12/91		5.70	2.48
	10/08/91		6.50	1.68
	02/06/92		6.35	1.83
	05/04/92		4.87	3.31
	07/28/92		5.73	2.45
	10/27/92		6.98	1.20
	01/14/93		4.70	3.48
	04/23/93		4.19	3.99
	07/20/93	10.87	5.10	5.77
	10/18/93		5.79	5.08
	01/06/94		5.56	5.31
	04/12/94		4.90	5.97
	07/25/94		5.38	5.49
	10/25/94		6.16	4.71
	01/09/95		4.60	6.27
	04/11/95		3.74	7.13
	07/18/95		4.97	5.90
	10/18/95		5.67	5.20
	01/09/96		---	---
	04/02/96		---	---
	10/03/96			
	04/03/97			
			Well Inaccessible	
			Well Inaccessible	
MW-6	05/23/89	8.21	5.47	2.74
	08/03/89		5.91	2.30
	12/15/89		5.98	2.23
	02/07/90		5.47	2.74
	04/18/90		5.80	2.41
	07/23/90		5.85	2.36
	09/27/90		6.42	1.79
	01/03/91		6.73	1.48
	04/10/91		5.24	2.97
	07/12/91		5.78	2.43
	10/08/91		6.36	1.85
	02/06/92		6.15	2.06
	05/04/92		5.07	3.14
	07/28/92		5.85	2.36
	10/27/92		6.69	1.52
	01/14/93		4.52	3.69
	04/23/93		4.32	3.89

Table 1. Ground Water Elevations - Shell Service Station WIC #204-5508-5504, 285 Hegenberger Road, Oakland, California

Well Number	Date Sampled	Well Elevation (ft, MSL)	Depth to Water (ft, TOC)	Ground Water Elevation (ft, MSL)
	07/20/93	11.04	5.39	5.65
	10/18/93		6.67	4.37
	01/06/94		5.66	5.38
	04/12/94		4.91	6.13
	07/25/94		5.55	5.49
	10/25/94		6.24	4.80
	01/09/95		4.58	6.46
	04/11/95		4.04	7.00
	07/18/95		5.01	6.03
	10/18/95		5.86	5.18
	01/09/96		4.75	6.29
	04/02/96		3.82	7.22
	10/03/96		5.27	5.77
	04/03/97		4.42	6.62
MW-7	05/23/89	7.44	5.48	1.96
	08/03/89		4.22	3.22
	12/15/89		4.58	2.86
	02/07/90		5.34	2.10
	04/18/90		4.92	2.52
	07/23/90		4.99	2.45
	09/27/90		6.16	1.28
	01/03/91		4.96	2.48
	04/10/91		4.13	3.31
	07/12/91		4.98	2.46
	10/08/91		5.48	1.96
	02/06/92		5.05	2.39
	05/04/92		4.43	3.01
	07/28/92		4.88	2.56
	10/27/92		5.39	2.05
	01/14/93		4.26	3.18
	04/23/93		4.04	3.40
	07/20/93	10.28	4.36	5.92
	10/18/93		5.14	5.14
	01/06/94		4.83	5.45
	04/12/94		4.24	6.04
	07/25/94		4.58	5.70
	10/25/94		5.07	5.21
	01/09/95		3.38	6.90
	04/11/95		3.52	6.76
	07/18/95		4.70	5.58
	10/18/95		5.25	5.03
	01/09/96		---	---
	04/02/96		---	---

Table 1. Ground Water Elevations - Shell Service Station WIC #204-5508-5504, 285 Hegenberger Road, Oakland, California

Well Number	Date Sampled	Well Elevation (ft, MSL)	Depth to Water (ft, TOC)	Ground Water Elevation (ft, MSL)
	10/03/96		Well Inaccessible	
	04/03/97		Well Inaccessible	
MW-8	05/23/89	7.79	6.62	1.17
	08/03/89		6.62	1.17
	12/15/89		6.71	1.08
	03/08/90		4.95	2.84
	04/18/90		6.40	1.89
	07/23/90		6.62	1.17
	09/27/90		6.98	0.81
	01/03/91		7.03	0.76
	04/10/91		4.40	3.39
	07/12/91		6.80	0.99
	10/08/91		7.56	0.23
	02/06/92		6.94	0.85
	05/04/92		5.86	1.93
	07/28/92		6.94	0.85
	10/27/92		7.83	-0.04
	01/14/93		3.60	4.19
	04/23/93		4.12	3.67
	07/20/93	10.61	6.38	4.23
	10/18/93		7.47	3.14
	01/06/94		7.20	3.41
	04/12/94		6.16	4.45
	07/25/94		6.94	3.67
	10/25/94		7.43	3.18
	01/09/95		3.98	6.63
	04/11/95		4.12	6.49
	07/18/95		5.21	5.40
	10/18/95		5.58	5.03
	01/09/96		5.09	5.52
	04/02/96		3.42	7.19
	10/03/96		4.30	6.31
	04/03/97		4.58	6.03
MW-9	08/03/89	7.63	5.78	1.85
	12/15/89		5.24	2.39
	02/07/90		5.23	2.40
	04/18/90		5.34	2.29
	07/23/90		5.65	1.98
	09/27/90		5.96	1.67
	01/03/91		6.23	1.40
	04/10/91		4.65	2.98
	07/12/91		5.65	1.98
	10/08/91		6.08	1.55

Table 1. Ground Water Elevations - Shell Service Station WIC #204-5508-5504, 285 Hegenberger Road, Oakland, California

Well Number	Date Sampled	Well Elevation (ft, MSL)	Depth to Water (ft, TOC)	Ground Water Elevation (ft, MSL)
	02/06/92		5.92	1.71
	05/04/92		4.80	2.83
	07/28/92		5.61	2.02
	10/27/92		6.24	1.39
	01/14/93		4.95	2.68
	04/23/93		4.54	3.09
	07/20/93	10.48	5.25	5.23
	10/18/93		6.00	4.48
	01/06/94		5.62	4.86
	04/12/94		4.31	6.17
	07/25/94		5.43	5.05
	10/25/94		6.00	4.48
	01/09/95		4.26	6.22
	04/11/95		4.08	6.40
	07/18/95		5.07	5.41
	10/18/95		5.82	4.66
	01/09/96		4.36	6.12
	04/02/96		3.86	6.62
	10/03/96		4.90	5.58
	04/03/97		3.98	6.50
MW-10	12/15/89	7.45	6.33	0.82
	03/08/90		5.41	2.00
	04/18/90		5.60	1.85
	07/23/90		5.81	1.64
	09/27/90		6.64	0.81
	01/03/91		6.96	0.49
	04/10/91		4.70	2.75
	07/12/91		5.90	1.55
	10/08/91		6.68	0.77
	02/06/92		7.04	0.41
	05/04/92		4.69	2.76
	07/28/92		6.00	1.45
	10/27/92		← Well Inaccessible →	
	01/14/93		6.07	1.38
	04/23/93		4.14	3.31
	07/20/93	10.61	5.62	4.99
	10/18/93		6.43	4.18
	01/06/94		6.74	3.87
	04/12/94		5.98	4.63
	07/25/94		6.31	4.30
	10/25/94		6.64	3.97
	01/09/95		5.70	4.91
	04/11/95		5.82	4.79
	07/18/95		6.79	3.82

Table 1. Ground Water Elevations - Shell Service Station WIC #204-5508-5504, 285 Hegenberger Road, Oakland, California

Well Number	Date Sampled	Well Elevation (ft, MSL)	Depth to Water (ft, TOC)	Ground Water Elevation (ft, MSL)
	10/18/95		5.31	5.30
	01/09/96		5.92	4.69
	04/02/96		5.43	5.18
	10/03/96		6.07	4.54
	04/03/97		3.45	7.16
MW-11	07/20/93	10.56	8.08	2.48
	10/18/93		8.24	2.32
	01/06/94		8.47	2.09
	04/12/94		8.44	2.12
	07/25/94		8.20	2.36
	10/25/94		8.67	1.89
	01/09/95		7.63	2.93
	04/11/95		8.06	2.50
	07/18/95		9.31	1.25
	10/18/95		8.34	2.22
	01/09/96		8.22	2.34
	04/02/96		7.97	2.59
	10/03/96		8.37	2.19
	04/03/97		8.31	2.25
MW-12	07/20/93	9.56	6.76	2.80
	10/18/93		7.12	2.44
	01/06/94		7.15	2.41
	04/12/94		6.68	2.88
	07/25/94		6.83	2.73
	10/25/94		7.34	2.22
	01/09/95		5.02	4.54
	04/11/95		7.38	2.18
	07/18/95		8.50	1.06
	10/18/95		6.63	2.93
	01/09/96		6.32	3.24
	04/02/96		5.60	3.96
	10/03/96		3.30	6.26
	04/03/97		6.13	3.43
MW-13	07/20/93	10.10	8.32	1.78
	10/18/93		8.66	1.44
	01/06/94		8.70	1.40
	04/12/94		8.20	1.90
	07/25/94		8.39	1.71
	10/25/94		8.70	1.40
	01/09/95		7.35	2.75
	04/11/95		5.50	4.60
	07/18/95		6.63	3.47

Table 1. Ground Water Elevations - Shell Service Station WIC #204-5508-5504, 285 Hegenberger Road, Oakland, California

Well Number	Date Sampled	Well Elevation (ft, MSL)	Depth to Water (ft, TOC)	Ground Water Elevation (ft, MSL)
	10/18/95		8.12	1.98
	01/09/96		7.74	2.36
	04/02/96		6.30	3.80
	10/03/96		6.50	3.60
	04/03/97		7.58	2.52

Abbreviations

MSL = Mean sea level
TOC = Top of casing
TOB = Top of box elevation
N/A = Not available

CAMBRIA

Table 2. Ground Water Analytic Data - Shell Service Station, WIC# 204-5508-5504, 285 Hegenberger Rd., Oakland, CA

Well	Date Sampled	TPPH	Benzene	Toluene	Ethylbenzene	Xylenes	TEPH	TPHmo	MTBE	DO
		(concentrations in ppb) →								
MW-1	02/16/92	99,000	20,000	23,000	5,700	2,300	—	—	—	—
	05/23/92	48,000	4,200	5,200	1,200	7,700	11,000	—	—	—
	08/04/89	63,000	5,500	5,500	3,200	9,500	11,000	—	—	—
	12/15/89	30,000	ND	ND	ND	ND	11,000	—	—	—
	02/07/90	93,000	13,000	9,600	2,400	14,000	10,000	—	—	—
	04/18/90	55,000	14,000	8,400	3,200	13,000	8,700	—	—	—
	07/24/90	73,000	16,000	7,400	2,800	15,000	3,600	—	—	—
	10/01/90	45,000	8,000	4,300	2,000	11,000	1,700	—	—	—
	01/02/91	43,000	10,000	3,400	1,900	11,000	3,100	—	—	—
	04/09/91	67,000	20,000	9,600	3,500	16,000	1,800	—	—	—
	07/11/91	—	—	—	—	—	—	—	—	—
	10/08/91	55,000	18,000	3,500	2,300	8,600	7,400	—	—	—
	02/06/92	48,000	12,000	2,800	1,900	7,400	15 ^a	—	—	—
	05/05/92	71,000	16,000	6,000	3,100	14,000	10 ^a	—	—	—
	07/28/92	68,000	21,000	5,500	3,400	15,000	18 ^a	ND	—	—
	07/28/92	70,000	17,000	5,000	2,700	13,000	19 ^a	ND	—	—
	10/27/92	53,000	18,000	3,700	3,400	11,000	1,300	—	—	—
	10/27/92	48,000	17,000	3,600	3,100	9,900	2.5 ^a	—	—	—
	01/15/93	84,000	17,000	5,400	3,000	13,000	22 ^a	ND	—	—
	04/23/93	100,000	18,000	7,800	4,700	20,000	23 ^a	ND	—	—
	07/20/93	41 ^d	12,000 ^d	870 ^d	1,500 ^d	4,400 ^d	3.1 ^a	—	—	—
	10/18/93	33,000	14,000	1,200	2,000	4,900	8.1 ^a	960	—	—
	10/18/93	44,000	14,000	1,200	2,000	4,900	3.7 ^a	670	—	—
	01/06/94	71,000	9,000	870	1,600	5,100	9 ^a	ND	—	—
	04/12/94	42,000	6,600	170	2,300	4,700	5,900	2,500	—	—
	04/12/94	40,000	6,300	180	2,000	4,400	4,700	2,200	—	—
	07/25/94	13,000	4,400	110	460	1,400	7.0 ^a	ND	—	—
	10/26/94	19,000	5,500	210	880	2,000	3,900	ND	—	—
	01/11/95	37,000	6,700	800	2,800	8,900	8.6 ^a	ND	—	—
	04/11/95	26,000	4,700	270	1,800	3,400	5,500	ND	—	—
	07/19/95	57,000	7,500	880	4,100	11,000	7,000	NC	—	—
	07/19/95	46,000	6,000	670	3,200	7,500	6,600	NC	—	—
	01/09/96	37,000	5,400	450	2,600	7,400	3,200	ND	10,000	—
	04/02/96	32,000	3,000	240	1,900	3,500	—	<500	6,100	—
	04/02/96	30,000	3,100	260	2.0	3,900	—	<500	8.0	—
	10/03/96	18,000	3,000	120	1,200	1,700	2,800	520	7,500	2.2
	04/03/97	23,000	2,300	170	2,300	2,900	3,000	<500	4,300	2.2
MW-2	02/16/89	20,000	200	900	2700	9600	—	—	—	—
	05/23/89	1,500	4.3	2.9	11	150	1,600	—	—	—
	08/04/89	15,000	75	120	850	2200	7,400	—	—	—
	12/15/89	5,000	52	13	4.1	290	2,600	—	—	—
	02/07/90	13,000	32	34	230	640	4,800	—	—	—
	04/18/90	9,800	33	19	460	1,700	3,200	—	—	—
	07/24/90	9,600	41	27	540	940	2,700	—	—	—

CAMBRIA

Table 2. Ground Water Analytic Data - Shell Service Station, WIC# 204-5508-5504, 285 Hegenberger Rd., Oakland, CA

Well	Date Sampled	TPPH	Benzene	Toluene	Ethylbenzene	Xylenes	TEPH	TPHmo	MTBE	DO
		(concentrations in ppb)								
	10/01/90	390	3.4	15	8.5	25	1,600	---	---	---
	01/02/91	1,800	56	4.4	4.8	92	830	---	---	---
	04/09/91	1,900	ND	28	140	490	280	---	---	---
	07/11/91	8,100	89	66	350	930	1,100	---	---	---
	10/08/91	1,400	5.1	1.5	36	270	2,600	---	---	---
	02/06/92	2,000	7.8	2.5	130	210	5.4 ^a	---	---	---
	05/05/92	21 ^b	ND ^b	ND ^b	300 ^b	960 ^b	1,000	---	---	---
	07/28/92	2,100	7.7	3.3	130	310	0.83 ^a	320	---	---
	10/27/92	1,100	16	3.1	4.5	25	530	---	---	---
	01/15/93 ⁺	290	5.2	3.1	8.4	21	0.17 ^b	---	---	---
	04/23/93	2,400	ND	ND	210	610	1.2 ^a	ND	---	---
	07/21/93	440	1.7	1.7	15	38	130	---	---	---
	10/18/93	2,100	ND	ND	90	110	1.6 ^a	510	---	---
	01/06/94	1.9 ^f	ND ^f	6.7 ^f	7.1 ^f	12 ^f	130	ND	---	---
	04/12/94	120	ND	ND	3.4	4.3	130	170	---	---
	07/25/94	0.18 ^f	5.3 ^f	ND ^f	6.2 ^f	8.2 ^f	0.28 ^a	ND	---	---
	10/26/94	170	ND	ND	ND	ND	400	ND	---	---
	01/11/95	ND	ND	ND	ND	ND	ND	ND	---	---
	04/11/95	ND	ND	ND	ND	ND	ND	ND	---	---
	07/19/95	250	2.8	0.5	12	13	160	NC	---	---
	01/09/96	790	5.1	1.5	2.4	4.6	130	ND	1,400	---
	04/02/96	260	<2	<2	13	6.9	---	<500	540	---
	10/03/96	<2000	<20	<20	<20	<20	620	<500	13,000	2.3
	04/03/97	<1,000	<10	<10	<10	<10	130	<500	2,800	2.2
MW-3	02/16/89	60,000	5,500	0	3,200	5,200	---	---	---	---
	05/23/89	ND	ND	200	ND	ND	1,500	---	---	---
	08/04/89	2,000	120	ND	ND	86	1,200	---	---	---
	12/15/89	5,200	380	12	17	410	1,700	---	---	---
	03/08/90	260	17	47	5.4	2.5	230	---	---	---
	04/19/90	260	ND	ND	ND	9.4	ND	---	---	---
	07/24/90	510	46	ND	ND	9.3	210	---	---	---
	09/28/90	460	6.3	1.2	ND	15	350	---	---	---
	01/02/91	4,800	920	1.7	ND	190	630	---	---	---
	04/09/91	120	1.2	8.8	3.5	21	60	---	---	---
	07/11/91	430	12	0.8	ND	7.7	ND	---	---	---
	10/08/91	770	140	ND	ND	53	560	---	---	---
	02/06/91	500	74	0.7	5.2	5.3	0.34 ^a	---	---	---
	05/04/92	310	47	0.9	17	16	0.29 ^a	---	---	---
	07/28/92 ^{**}	780	130	ND	13	4.2	0.1 ^a	120	---	---
	10/27/92 ^{**}	740	92	ND	7.8	9.6	0.069 ^a	100	---	---
	01/15/93	ND	2.4	2.8	ND	ND	ND	120	---	---
	04/23/93	----- Well Inaccessible -----								
	07/20/93	----- Well Inaccessible -----								
	10/18/93	----- Well Inaccessible -----								

CAMBRIA

Table 2. Ground Water Analytic Data - Shell Service Station, WIC# 204-5508-5504, 285 Hegenberger Rd., Oakland, CA

Well	Date Sampled	TPPH	Benzene	Toluene	Ethylbenzene	Xylenes	TEPH	TPHmo	MTBE	DO
		(concentrations in ppb) →								
	01/06/94	130	1.7	0	ND	0.93	64	ND	—	—
	04/12/94	ND	0.82	ND	ND	0.7	75	86	---	---
	07/25/94	0.06 ^f	2.8 ^f	ND ^f	ND ^f	0.7 ^f	ND	ND	---	---
	10/26/94	70	ND	ND	ND	ND	100	ND	---	---
	01/11/95	ND	ND	ND	ND	ND	ND	ND	---	---
	04/11/95	ND	ND	ND	ND	ND	ND	ND	---	---
	07/19/95	ND	2.8	ND	ND	ND	90	NC	---	---
	01/09/96	90	1.7	ND	<0.5	<0.5	90	ND	61	---
	04/02/96	<50	<0.5	<0.5	<0.5	<0.5	---	<500	24	---
	10/03/96	<500	<5	<5	<5	<5	180	<500	1,200	2.4
	04/03/97	150	3.2	<0.50	<0.50	0.81	93	<500	280	2.0
MW-4	05/23/89	ND	ND	0	ND	ND	ND	---	---	---
	08/04/89	ND	ND	ND	ND	ND	ND	---	---	---
	12/15/89	ND	ND	ND	ND	ND	ND	---	---	---
	03/08/90	ND	ND	ND	ND	ND	ND	---	---	---
	07/25/90	ND	ND	ND	ND	ND	ND	---	---	---
	09/28/90	ND	ND	ND	ND	ND	ND	---	---	---
	04/09/91	ND	ND	ND	ND	ND	ND	---	---	---
	07/11/91	ND	ND	ND	ND	ND	ND	---	---	---
	10/08/91	ND	ND	ND	ND	ND	ND	---	---	---
	02/06/92	120	ND	ND	ND	ND	2.5 ^a	---	---	---
	05/04/92	ND	ND	ND	ND	ND	53	---	---	---
	07/28/92	ND	ND	ND	ND	ND	60	ND	---	---
	10/27/92	ND	ND	ND	ND	ND	ND	---	---	---
	01/14/93	ND	ND	ND	ND	ND	ND	120	---	---
	04/23/93	ND	ND	ND	ND	ND	ND	170	---	---
	07/21/93	ND	2.2	ND	1.1	7.7	ND	---	---	---
	10/18/93	ND	ND	1.2	ND	ND	ND	200	---	---
	01/06/94	ND	ND	ND	ND	ND	ND	ND	---	---
	04/13/94	ND	ND	ND	ND	ND	76	390	---	---
	07/26/94	ND	ND	ND	ND	ND	ND	ND	---	---
	10/26/94	ND	ND	ND	ND	ND	ND	ND	---	---
	01/11/95	ND	ND	ND	ND	ND	0.07 ^{b,g}	ND	---	---
	04/11/95	ND	1.5	ND	0.6	3.4	140	ND	---	---
	07/19/95	ND	13	3.4	ND	ND	160	NC	---	---
	01/09/96	<50	<0.5	ND	<0.5	<0.5	ND	ND	ND	---
	04/02/96	<50	<0.5	<0.5	<0.5	<0.5	---	<500	<2.5	---
	10/08/96	<50	<0.5	<0.5	<0.5	<0.5	81	<500	<2.5	---
	04/03/97	<50	<0.50	<0.50	<0.50	<0.50	69	<500	<2.5	1.3
MW-5	05/23/89	26,000	1,500	280	ND	8,100	7,000	---	---	---
	08/05/89	12,000	860	94	ND	2,600	8,700	---	---	---
	12/15/89	1,000	22	35	18	44	710	---	---	---
	02/08/90	ND	0.8	ND	ND	ND	620	---	---	---

CAMBRIA

Table 2. Ground Water Analytic Data - Shell Service Station, WIC# 204-5508-5504, 285 Hegenberger Rd., Oakland, CA

Well	Date Sampled	←					→			DO (ppm)
		TPPH	Benzene	Toluene	Ethylbenzene	Xylenes	TEPH	TPHmo	MTBE	
	04/19/90	19,000	4,500	850	97	8,000	5,000	---	---	---
	07/24/90	23,000	3,600	400	160	6,500	2,700	---	---	---
	09/28/90	5,400	1,400	26	13	1,300	550	---	---	---
	01/02/91	860	280	2.8	0.8	45	560	---	---	---
	04/09/91	12,000	710	130	500	2,400	1,800	---	---	---
	07/11/91	24,000	2,200	280	430	5,700	1,700	---	---	---
	10/08/91	2,800	860	13	ND	580	1,400	---	---	---
	02/06/92	1,000	300	ND	14	62	1,200	---	---	---
	05/05/92	10,000	1,500	350	710	2,300	4.1 ^a	---	---	---
	07/28/92	12,000	2,200	63	1,400	3,500	3.8 ^a	1,200	---	---
	10/27/92	7,500	1,100	59	230	900	0.48 ^a	---	---	---
	01/15/93	7,700	420	49	570	840	1.1 ^c	430	---	---
	04/23/93	110,000	2,900	2,500	3,400	12,000	16 ^a	ND	---	---
	07/21/93	18 ^d	1,400 ^d	84 ^d	1,500 ^d	3,200 ^d	1.2 ^a	---	---	---
	10/18/93	14,000	2,000	100	2,300	5,100	5.8 ^a	860	---	---
	01/06/94	81,000	11,000	9,300	3,600	12,000	11 ^a	ND	---	---
	04/12/94	17,000	2,900	380	430	1,300	4,100	2,200	---	---
	07/25/94	5,900	1,500	42	34	170	5.4 ^a	ND	---	---
	10/26/94	2,300	35	3	ND	8	1.9 ^a	720,000	---	---
	01/11/95	8,300	1,500	95	330	1,900	3.7 ^c	ND	---	---
	04/11/95	7,300	1,200	230	600	550	9,800	ND	---	---
	07/19/95	17,000	2,300	730	770	2,500	5,100	NC	---	---
	10/08/96 [*]	---	---	---	---	---	---	---	---	---
	04/03/97	---	---	---	---	---	---	---	---	---
MW-6	05/23/89	22,000	16	6.5	7	3,400	7,000	---	---	---
	08/04/89	28,000	1,200	130	2,100	2,800	8,800	---	---	---
	12/15/89	16,000	370	92	200	180	5,500	---	---	---
	02/07/90	22,000	520	85	630	770	2,600	---	---	---
	04/18/90	21,000	900	77	2,700	2,700	5,700	---	---	---
	07/24/90	24,000	1,000	94	3,400	2,700	3,000	---	---	---
	10/01/90	22,000	700	93	2,500	2,400	ND	---	---	---
	01/02/91	25,000	1,000	88	2,600	3,700	960	---	---	---
	04/09/91	18,000	560	190	480	830	920	---	---	---
	07/11/91	9,500	670	51	1,100	920	1,900	---	---	---
	10/08/91	11,000	1,000	43	ND	ND	5,100	---	---	---
	02/06/92	7,200	560	8	720	160	15 ^a	---	---	---
	05/05/92	7,900	610	ND	1,500	240	2.9 ^a	---	---	---
	07/28/92	17,000	1,200	ND	3,000	610	3.2 ^a	ND	---	---
	10/27/92	15,000	1,300	130	1,700	490	1.3 ^a	---	---	---
	01/14/93	4,900	80	31	330	37	1.6 ^a	ND	---	---
	04/23/93	4,800	120	ND	780	73	1.8 ^a	ND	---	---
	07/20/93	19 ^d	570 ^d	18 ^d	1,100 ^d	130 ^d	0.91 ^a	---	---	---
	10/18/93	24,000	770	440	1,600	830	2.5 ^a	830	---	---
	01/06/94	20 ^d	450 ^d	30 ^d	530 ^d	52 ^d	2.3a ^a	ND	---	---

CAMBRIA

Table 2. Ground Water Analytic Data - Shell Service Station, WIC# 204-5508-5504, 285 Hegenberger Rd., Oakland, CA

Well	Date Sampled	TPPH	Benzene	Toluene	Ethylbenzene Xylenes			TEPH	TPHmo	MTBE	DO (ppm)
					(concentrations in ppb)						
	04/12/94	3,600	150	ND	340	21	1,600	580	---	---	
	07/25/94	1,600	160	ND	ND	10	2.2 ^a	ND	---	---	
	07/25/94 ^{dup}	1,000	160	ND	ND	18	2.4 ^a	ND	---	---	
	10/26/94	9,800	390	22	300	57	3.0 ^a	ND	---	---	
	01/09/95	2,200	74	12	400	39	0.8 ^a	ND	---	---	
	04/11/95	5,000	330	15	760	85	7,700	ND	---	---	
	07/19/95	4,200	320	11	490	22	1,700	NC	---	---	
	01/09/96	5,600	59	<5	180	12	790	ND	14,000	---	
	04/02/96	1,500	12	<5	170	9	---	<500	1,900	---	
	10/03/96	2,600	110	<25	<25	<25	1,800	690	11,000	2.2	
	04/03/97	<2,500	30	<25	32	<25	650	<500	10,000	2.0	
MW-7	05/23/89	47,000	3,500	5,000	1,500	7,800	11,000	---	---	---	
	08/04/89	68,000	6,200	6,600	3,600	8,800	22,000	---	---	---	
	12/15/89	100,000	4,500	5,300	1,300	5,300	12,000	---	---	---	
	02/08/90	96,000	15,000	15,000	2,500	14,000	8,100	---	---	---	
	04/19/90	94,000	25,000	13,000	3,300	13,000	10,000	---	---	---	
	07/24/90	84,000	3,800	26,000	13,000	3,000	12,000	---	---	---	
	09/28/90	43,000	25,000	6,100	2,400	9,000	ND	---	---	---	
	01/02/91	78,000	26,000	16,000	3,000	14,000	3,100	---	---	---	
	04/09/91	140,000	26,000	16,000	2,200	14,000	1,800	---	---	---	
	07/11/91	79,000	7,700	7,200	2,300	10,000	1,100	---	---	---	
	10/08/91	55,000	29,000	7,500	1,800	9,300	0.39 ^a	---	---	---	
	02/06/92	63,000	16,000	8,700	1,600	7,400	9.6 ^a	---	---	---	
	05/05/92	67,000	22,000	13,000	1,800	9,400	9.8 ^a	---	---	---	
	07/28/92	85,000	26,000	17,000	2,900	15,000	13 ^a	ND	---	---	
	10/27/92	63,000	21,000	11,000	3,000	11,000	1.9 ^a	---	---	---	
	01/14/93	120,000	28,000	21,000	1,600	15,000	2.3 ^a	---	---	---	
	04/23/93	60,000	17,000	3,700	2,200	11,000	12 ^a	ND	---	---	
	04/23/93 ^{dup}	50,000	17,000	4,200	2,200	11,000	14 ^a	ND	---	---	
	07/21/93	47,000	23,000	9,900	2,200	12,000	13,000	---	---	---	
	10/18/93	44,000	22,000	3,800	2,600	10,000	10 ^a	1,000	---	---	
	01/06/94	65,000	16,000	4,900	1,900	8,500	5.2 ^a	ND	---	---	
	04/12/94	68,000	12,000	2,000	580	6,400	3,400	750	---	---	
	07/25/94	63,000	16,000	5,800	300	8,300	4.2 ^a	ND	---	---	
	10/26/94	46,000	16,000	3,700	1,200	7,300	3.8 ^a	ND	---	---	
	01/11/95	62,000	24,000	8,500	1,100	9,400	3.3 ^c	ND	---	---	
	01/11/95 ^{dup}	57,000	9,500	7,900	620	8,000	3.2 ^c	ND	---	---	
	04/12/95	53,000	13,000	4,200	1,500	7,700	7,000	ND	---	---	
	04/12/95 ^{dup}	55,000	11,000	3,700	1,300	6,400	7,600	ND	---	---	
	07/19/95	95,000	24,000	8,000	2,100	12,000	2,700	NC	---	---	
	10/03/96 [#]	---	---	---	---	---	---	---	---	---	
	04/03/97	---	---	---	---	---	---	---	---	---	
MW-8	05/23/89	ND	ND	ND	ND	ND	100	---	---	---	

CAMBRIA

Table 2. Ground Water Analytic Data - Shell Service Station, WIC# 204-5508-5504, 285 Hegenberger Rd., Oakland, CA

Well	Date Sampled	TPPH	Benzene	Toluene	Ethylbenzene	Xylenes	TEPH	TPHmo	MTBE	DO
		(concentrations in ppb)								
	08/04/89	ND	ND	ND	ND	ND	75	---	---	---
	12/15/89	ND	ND	ND	ND	ND	ND	---	---	---
	03/08/90	ND	ND	ND	ND	ND	ND	---	---	---
	07/25/90	ND	ND	ND	ND	ND	ND	---	---	---
	09/28/90	ND	ND	ND	ND	ND	1100	---	---	---
	01/02/91	ND	1.3	ND	ND	ND	ND	---	---	---
	04/09/91	50	0.7	1.1	0.8	1	ND	---	---	---
	07/11/91	ND	ND	ND	ND	ND	ND	---	---	---
	10/08/91	ND	1.4	ND	ND	ND	ND	---	---	---
	02/06/92	ND	ND	0.7	ND	ND	0.06 ^a	---	---	---
	05/04/92	ND	ND	ND	ND	ND	0.21 ^b	---	---	---
	07/28/92	51	ND	ND	1	0.6	ND	150	---	---
	10/27/92	ND	ND	6.6	ND	ND	ND	---	---	---
	01/14/93	ND	ND	ND	ND	ND	0.064 ^b	---	---	---
	01/14/93 ^{dup}	ND	ND	ND	ND	ND	---	---	---	---
	04/23/93	ND	ND	ND	ND	ND	ND	150	---	---
	07/21/93	ND	0.7	0.7	0.8	4.1	ND	---	---	---
	10/18/93	ND	ND	800	ND	ND	ND	170	---	---
	01/06/94	ND	ND	ND	ND	ND	ND	ND	---	---
	04/13/94	ND	ND	ND	ND	ND	ND	220	---	---
	07/26/94	ND	ND	ND	ND	ND	ND	ND	---	---
	10/26/94	ND	ND	1	ND	ND	ND	ND	---	---
	01/11/95	ND	ND	ND	ND	ND	0.07 ^{b,g}	ND	---	---
	04/11/95	ND	0.63	1.3	ND	0.75	78	ND	---	---
	07/19/95	ND	ND	ND	ND	ND	130	NC	---	---
	01/09/96	<50	<0.5	<0.5	<0.5	<0.5	ND	ND	ND	---
	04/02/96	<50	<0.5	<0.5	<0.5	<0.5	---	<500	<2.5	---
	10/03/96	<50	<0.5	<0.5	<0.5	<0.5	<69	<500	<2.5	---
	04/03/97	<50	<0.5	<0.5	<0.5	0.81	62	<500	<2.5	2.0
MW-9	08/04/89	47,000	5,600	6,600	1,500	8,500	12,000	---	---	---
	12/15/89	88,000	4,300	5,400	140	5,600	9,200	---	---	---
	02/08/90	50,000	1,800	1,400	3,200	1,800	7,400	---	---	---
	04/19/90	50,000	14,000	11,000	730	10,000	7,500	---	---	---
	07/24/90	62,000	19,000	16,000	950	15,000	3,200	---	---	---
	09/28/90	30,000	16,000	6,500	980	11,000	2,700	---	---	---
	01/02/91	34,000	9,200	3,200	770	7,000	2,500	---	---	---
	04/09/91	66,000	17,000	13,000	1,400	14,000	2,200	---	---	---
	07/11/91	40,000	7,700	3,200	1,100	9,400	2,000	---	---	---
	10/08/91	20,000	11,000	640	240	6,000	4.7 ^a	---	---	---
	02/06/92	36,000	11,000	490	1,100	6,700	6.6 ^a	---	---	---
	05/05/92	31,000	11,000	1,700	1,200	8,700	5.8 ^a	---	---	---
	07/28/92	50,000	17,000	1,200	1,500	12,000	14,000	ND	---	---
	10/27/92	43,000	15,000	680	1,700	8,100	0.88 ^a	---	---	---
	01/15/93	52,000	9,600	1,100	1,100	7,000	0.73 ^a	---	---	---

CAMBRIA

Table 2. Ground Water Analytic Data - Shell Service Station, WIC# 204-5508-5504, 285 Hegenberger Rd., Oakland, CA

Well	Date Sampled	TPPH	Benzene	Toluene	(concentrations in ppb)			TEPH	TPHmo	MTBE	DO (ppm)
					Ethylbenzene	Xylenes					
	04/23/93	45,000	11,000	1,400	1,500	10,000	8 ^a	150	---	---	
	07/21/93	25,000	10,000	320	1,100	7,100	5,100	---	---	---	
	10/18/93	32,000	14,000	530	2,000	10,000	4.9 ^a	---	---	---	
	01/06/94	41,000	15,000	810	1,400	9,000	7.7 ^a	---	---	---	
	01/06/94 ^{dup}	43,000	15,000	920	1,300	8,000	8.3 ^a	---	---	---	
	04/13/94	39,000	8,300	ND	ND	4,000	2,000	220	---	---	
	07/26/94	22,000	7,500	150	ND	4,100	3.6 ^a	ND	---	---	
	10/26/94	31,000	13,000	240	1,000	8,500	3.2 ^a	ND	---	---	
	10/26/94 ^{dup}	31,000	13,000	220	1,100	8,300	3.5 ^a	---	---	---	
	01/11/95	4,800	1,200	510	42	1,400	2.3 ^c	ND	---	---	
	04/12/95	20,000	5,100	460	400	3,400	3,400	ND	---	---	
	07/19/95	43,000	12,000	1,800	960	9,100	2,900	NC	---	---	
	01/09/96	64,000	12,000	5,400	1,800	10,000	2,800	ND	2100	---	
	04/02/96	39,000	10,000	100	520	4,100	---	<500	<500	---	
	10/03/96	46,000	12,000	180	1,400	6,700	3,100	570	2,300	1.4	
	04/03/97	36,000	9,700	140	580	3,900	2,300	<500	<500	1.3	
MW-10	12/15/89	ND	1,500	ND	ND	ND	3,100	---	---	---	
	03/08/90	25,000	17,000	330	2,100	1,400	1,800	---	---	---	
	04/19/90	23,000	15,000	1,200	190	3,300	3,600	---	---	---	
	07/25/90	18,000	12,000	380	ND	1,400	1,900	---	---	---	
	09/28/90	9,500	13,000	100	1,800	230	430	---	---	---	
	01/02/91	4,300	3,700	10	ND	110	630	---	---	---	
	04/09/91	45,000	16,000	4,600	3,000	6,900	1,400	---	---	---	
	07/11/91	ND	ND	ND	ND	ND	ND	---	---	---	
	10/08/91	3,800	13,000	82	9	500	1.5 ^a	---	---	---	
	02/06/92	22,000	12,000	ND	600	170	1.6 ^a	---	---	---	
	05/05/92	39,000	14,000	5,000	1,800	5,000	8 ^a	---	---	---	
	07/28/92	38,000	17,000	2,800	1,500	4,000	8.7 ^a	ND	---	---	
	10/27/92	-----									
	01/14/93	26,000	10,000	ND	ND	160	0.95 ^c	200	---	---	
	04/23/93	80,000	21,000	13,000	3,400	12,000	19 ^a	ND	---	---	
	07/21/93	31,000	14,000	4,200	1,700	5,500	4,800	---	---	---	
	10/18/93	13,000	8,600	220	ND	450	1.2 ^a	610	---	---	
	01/06/94	16,000	9,700	ND(<125)	ND(<125)	210	0.67 ^a	620	---	---	
	04/13/94	16,000	5,600	ND	ND	ND	860	270	---	---	
	07/25/94	2,300	1,400	26	25	51	2.1 ^a	ND	---	---	
	10/26/94	1,400	290	5	2	38	1.0 ^a	ND	---	---	
	01/11/95	16,000	7,500	1,400	230	1,500	2.3 ^c	ND	---	---	
	04/11/95	54,000	13,000	4,500	1,500	4,500	5,000	ND	---	---	
	07/19/95	72,000	20,000	7,200	2,800	9,000	2,600	NC	---	---	
	01/09/96	32,000	8,000	1,600	880	3,200	2,100	ND	12,000	---	
	04/02/96	68,000	9,100	2,300	1,100	3,700	---	<500	3,300	---	
	10/03/96	33,000	11,000	1,300	830	2,400	2,900	<2.5	7,300	1.7	
	10/03/96 ^{dup}	40,000	12,000	1,700	1,100	3,100	3,300	<2.5	6,500	1.7	

CAMBRIA

Table 2. Ground Water Analytic Data - Shell Service Station, WIC# 204-5508-5504, 285 Hegenberger Rd., Oakland, CA

Well	Date Sampled	TPPH	Benzene	Toluene	Ethylbenzene	Xylenes	TEPH	TPHmo	MTBE	DO
		(concentrations in ppb) ←-----→								
	04/03/97	36,000	12,000	2,300	1,400	4,500	3,400	<1,000	2,300	1.8
	04/03/97 ^{dup}	52,000	12,000	2,300	1,400	4,500	3,900	<500	2,100	1.8
MW-11	07/20/93	50	2.5	1.9	3.9	18	ND	--	--	--
	10/18/93	ND	ND	ND	ND	ND	65	260	--	--
	01/06/94	ND	ND	ND	ND	ND	ND	ND	--	--
	04/13/94	ND	1.1	0.87	ND	1.5	ND	ND	--	--
	07/25/94	ND	ND	ND	ND	ND	ND	ND	--	--
	10/26/94	ND	ND	ND	ND	ND	100	ND	--	--
	01/11/95	ND	ND	ND	ND	ND	ND	ND	--	--
	04/11/95	ND	ND	0.7	ND	0.5	140	ND	--	--
	07/19/95	ND	ND	ND	ND	ND	50	NC	--	--
	01/09/96	<50	<0.5	<0.5	<0.5	<0.5	ND	ND	ND	--
	04/02/96	<50	<0.5	<0.5	<0.5	<0.5	--	<500	<2.5	--
	10/03/96	<50	<0.5	<0.5	<0.5	<0.5	<50	<500	<2.5	3.6
	04/03/97	<50	<0.50	<0.50	<0.50	<0.50	<50	<500	<2.5	2.2
MW-12	07/20/93	ND	2.8	1.9	3.2	ND	15	--	--	--
	10/18/93	ND	ND	ND	ND	ND	ND	120	--	--
	01/06/94	ND	ND	ND	ND	ND	ND	ND	--	--
	04/13/94	ND	0.61	ND	ND	1.1	ND	ND	--	--
	07/25/94	ND	ND	ND	ND	ND	ND	ND	--	--
	10/26/94	ND	ND	ND	ND	ND	ND	ND	--	--
	01/09/95	ND	ND	ND	ND	ND	0.080 ^b	ND	--	--
	04/11/95	ND	ND	ND	ND	ND	200	ND	--	--
	07/19/95	ND	ND	ND	ND	ND	90	NC	--	--
	01/09/96	<50	<0.5	<0.5	<0.5	<0.5	ND	ND	ND	--
	04/02/96	<50	<0.5	<0.5	<0.5	<0.5	--	<500	<2.5	--
	10/03/96	<50	<0.5	<0.5	<0.5	<0.5	72	<500	<2.5	2.5
	04/03/97	<50	<0.50	<0.50	<0.50	<0.50	74	<500	<2.5	2.2
MW-13	07/21/93	ND	ND	ND	ND	ND	1.5	--	--	--
	07/21/93 ^{dup}	ND	ND	ND	ND	ND	1	--	--	--
	10/18/93	ND	ND	ND	ND	ND	ND	100	--	--
	01/06/94	ND	ND	ND	ND	ND	ND	ND	--	--
	04/13/94	ND	1.7	1.2	0.59	2.4	100	72	--	--
	07/25/94	ND	ND	ND	ND	ND	ND	ND	--	--
	10/26/94	ND	ND	ND	ND	ND	ND	ND	--	--
	01/09/95	ND	ND	ND	ND	ND	ND	ND	--	--
	04/11/95	ND	ND	ND	ND	ND	320	ND	--	--
	07/19/95	ND	ND	ND	ND	ND	ND	NC	--	--
	01/09/96	<50	<0.5	<0.5	<0.5	<0.5	ND	ND	ND	--
	04/02/96	<50	<0.5	<0.5	<0.5	<0.5	--	<500	<2.5	--
	10/03/96	<50	<0.5	<0.5	<0.5	<0.5	<50	<500	<2.5	3.0
	04/03/97	<50	<0.50	<0.50	<0.50	<0.50	<50	<500	<2.5	2.0

CAMBRIA

Table 2. Ground Water Analytic Data - Shell Service Station, WIC# 204-5508-5504, 285 Hegenberger Rd., Oakland, CA

Well	Date Sampled	TPPH	Benzene	Toluene	Ethylbenzene (concentrations in ppb)	Xylenes	TEPH	TPHmo	MTBE	DO (ppm)
MCLs		NE	1	150	700	1,750	NE	NE	NE	NE

Notes and Abbreviations:

- TPPH = Total purgeable petroleum hydrocarbons
 - TEPH = Total extractable petroleum hydrocarbons
 - TPHmo = Total petroleum hydrocarbons as motor oil
 - MTBE = Methyl tert-Butyl Ether by EPA Method 8020.
Result in parentheses indicates MTBE by EPA Method 8260.
 - DO = Dissolved Oxygen
 - ppb = Parts per billion
 - ppm = Parts per million
 - ND = Not detected
 - = Not analyzed
 - NC = Analyses included in TEPH (C10-C28).
 - dup = Duplicate sample
 - * = Well not located by sample team.
 - + = TPH as diesel analysis from April 8, 1993.
 - * = Sampled August 4, 1994.
 - ** = Also analyzed for oil and grease; results ND
 - MCLs = California Primary Maximum Contaminant Levels for drinking water (22 CCR 64444)
 - NE = MCL not established
- a. Compound detected and calculated as TPH as diesel primarily appears to be due to a lighter petroleum product.
 - b. Compound detected and calculated as diesel appears to be a heavier hydrocarbon compound.
 - c. Compound detected as TPH as diesel is due to the presence of a combination of a heavier petroleum product and a lighter petroleum product.
 - d. Compound detected as gasoline is due to the presence of a combination of gasoline and a discrete peak not indicative of gasoline.
 - f. Result has an atypical gasoline pattern.
 - g. Result is an unknown hydrocarbon that consists of a single peak.
- Benzene, Toluene, Ethylbenzene, and Total Xylenes by EPA Method 8020.
Prior to June 1995, TPPH was calculated as gasoline and TEPH was calculated as diesel and motor oil.
See individual certified analytical reports for detection limits.

CAMBRIA

ATTACHMENT A

Blaine Quarterly Ground Water Monitoring Report

BLAINE
TECH SERVICES INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112
(408) 573-7771 FAX
(408) 573-0555 PHONE



April 24, 1997

Shell Oil Company
P.O. Box 5278
Concord, CA 94520-9998

Attn: Alex Perez

Shell WIC #204-5508-5504
285 Hegenberger Road
Oakland, California

2nd Quarter 1997

Quarterly Groundwater Monitoring Report 970403-X-1

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) 573-0555 ext. 201.

Yours truly,

Francis Thie

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

cc: Cambria Environmental Technology, Inc.
1144 65th Street, Suite C
Oakland, CA 94608
Attn: Josh Bergstrom

(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	04/03/97	TOC	ODOR	NONE	--	--	2.84	9.39
MW-2	04/03/97	TOC	--	NONE	--	--	3.99	9.60
MW-3	04/03/97	TOC	--	NONE	--	--	4.20	9.67
MW-4	04/03/97	TOC	--	NONE	--	--	3.74	10.04
MW-5	04/03/97	INACCESSIBLE						
MW-6	04/03/97	TOC	ODOR	NONE	--	--	4.42	10.95
MW-7	04/03/97	INACCESSIBLE						
MW-8	04/03/97	TOC	--	NONE	--	--	4.58	9.89
MW-9	04/03/97	TOC	ODOR	NONE	--	--	3.98	10.80
MW-10 *	04/03/97	TOC	ODOR	NONE	--	--	3.45	10.00
MW-11	04/03/97	TOC	--	NONE	--	--	8.31	14.00
MW-12	04/03/97	TOC	--	NONE	--	--	6.13	14.58
MW-13	04/03/97	TOC	--	NONE	--	--	7.58	14.30

* Sample DUP was a duplicate sample taken from well MW-10.

9704360/9704361



SHELL OIL COMPANY

RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: 970403X1

Date:

Page 1 of 2

Site Address: 285 Hegenberger Rd., Oakland, CA

WIC#: 204-5508-5504

Shell Engineer: R. Jeff Granberry Phone No.: (510) 675-6168
Fax #: 675-6172

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

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

Comments:

Sampled by: K. Wecklingfeld

Printed Name: Ken Wecklingfeld

Analysis Required

LAB: Sequoia

CHECK ONE (1) BOX ONLY	CT/DI	TURN AROUND TIME
G.W. Monitoring <input checked="" type="checkbox"/>	4441	24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	4441	48 hours <input type="checkbox"/>
Soil Classify/Disposal <input type="checkbox"/>	4442	15 days <input checked="" type="checkbox"/> (Normal)
Water Classify/Disposal <input type="checkbox"/>	4443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	4452	
Water Rem. or Sys. O & M <input type="checkbox"/>	4453	
Other <input type="checkbox"/>		

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

UST AGENCY: _____

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 M T B E	Motor oil	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
mw-1	4/3			X		5						X	X						
mw-2																			
mw-3																			
mw-4																			AP 4 11 47
mw-6																			
mw-8																			
mw-9																			
mw-10																			

Relinquished By (Signature): <u>[Signature]</u>	Printed Name: <u>Ken Wecklingfeld</u>	Date: <u>4/4/97</u>	Time: <u>10:10</u>
Relinquished By (signature): <u>S. Kemnitz</u>	Printed Name: <u>S. Kemnitz</u>	Date: <u>4/4/97</u>	Time: <u>11:47</u>
Relinquished By (signature): _____	Printed Name: _____	Date: _____	Time: _____

Received (signature): <u>[Signature]</u>	Printed Name: <u>S. Kemnitz</u>	Date: <u>4/4/97</u>	Time: <u>10:10</u>
Received (signature): _____	Printed Name: _____	Date: _____	Time: _____
Received (signature): <u>[Signature]</u>	Printed Name: <u>Abad</u>	Date: <u>4/4/97</u>	Time: <u>11:47</u>

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



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: 970403x1

Date: _____
Page 2 of 2

Site Address: 285 Hegenberger Rd., Oakland, CA

WIC#: 204-5508-5504

Shell Engineer: R. Jeff Granberry
Phone No.: (510) 675-6168
Fax #: 675-6172

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

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

Comments:

Sampled by: Kenneth

Printed Name: Kenneth Weddington

Analysis Required

TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020 <u>MTBE</u>	<u>Motor oil</u>	Asbestos	Container Size	Preparation Used	Composite Y/N
-------------------------	----------------------------	---------------------	------------------------------	-------------------	----------------------------------------------	------------------	----------	----------------	------------------	---------------

LAB: SEQUOIA

CHECK ONE (1) BOX ONLY	CT/DT	TURN AROUND TIME
G.W. Monitoring <input checked="" type="checkbox"/>	4441	24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	4441	48 hours <input type="checkbox"/>
Soil Classify/Disposal <input type="checkbox"/>	4442	15 days <input checked="" type="checkbox"/> (Normal)
Water Classify/Disposal <input type="checkbox"/>	4443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	4452	
Water Rem. or Sys. O & M <input type="checkbox"/>	4453	
Other <input type="checkbox"/>		

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

UST AGENCY: _____

Sample ID	Date	Sludge	Soil	Water	Air	No. of conds.	Analysis Required										MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS		
							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	<u>Motor oil</u>	Asbestos	Container Size	Preparation Used			Composite Y/N	
mw-1	4/3			X		5	X	X			X	X								
mw-12																				
mw-13																				
EB																				
Dup																				

Relinquished By (signature): <u>[Signature]</u>	Printed Name: <u>Kenneth Weddington</u>	Date: <u>4/4/97</u>	Time: <u>1020</u>	Received (signature): <u>[Signature]</u>	Printed Name: <u>S. Kemnitz</u>	Date: <u>4/4/97</u>	Time: <u>1020</u>
Relinquished By (signature): <u>[Signature]</u>	Printed Name: <u>S. Kemnitz</u>	Date: <u>4/4/97</u>	Time: <u>1147</u>	Received (signature): _____	Printed Name: _____	Date: _____	Time: _____
Relinquished By (signature): _____	Printed Name: _____	Date: _____	Time: _____	Received (signature): <u>[Signature]</u>	Printed Name: <u>Abas</u>	Date: <u>4/4/97</u>	Time: <u>1147</u>

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



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112
Attention: Fran Thie

Project: Shell Oakland/970403X1

Enclosed are the results from samples received at Sequoia Analytical on April 3, 1997.
The requested analyses are listed below:

<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
9704360 -01	LIQUID, MW-1	04/03/97	TPHD_W Extractable TPH
9704360 -01	LIQUID, MW-1	04/03/97	TPHMOW Fuel Fingerprint/Mo
9704360 -01	LIQUID, MW-1	04/03/97	TPGBMW Purgeable TPH/BTEX
9704360 -02	LIQUID, MW-2	04/03/97	TPHD_W Extractable TPH
9704360 -02	LIQUID, MW-2	04/03/97	TPHMOW Fuel Fingerprint/Mo
9704360 -02	LIQUID, MW-2	04/03/97	TPGBMW Purgeable TPH/BTEX
9704360 -03	LIQUID, MW-3	04/03/97	TPHD_W Extractable TPH
9704360 -03	LIQUID, MW-3	04/03/97	TPHMOW Fuel Fingerprint/Mo
9704360 -03	LIQUID, MW-3	04/03/97	TPGBMW Purgeable TPH/BTEX
9704360 -04	LIQUID, MW-4	04/03/97	TPHD_W Extractable TPH
9704360 -04	LIQUID, MW-4	04/03/97	TPHMOW Fuel Fingerprint/Mo
9704360 -04	LIQUID, MW-4	04/03/97	TPGBMW Purgeable TPH/BTEX
9704360 -05	LIQUID, MW-6	04/03/97	TPHD_W Extractable TPH
9704360 -05	LIQUID, MW-6	04/03/97	TPHMOW Fuel Fingerprint/Mo
9704360 -05	LIQUID, MW-6	04/03/97	TPGBMW Purgeable TPH/BTEX
9704360 -06	LIQUID, MW-8	04/03/97	TPHD_W Extractable TPH
9704360 -06	LIQUID, MW-8	04/03/97	TPHMOW Fuel Fingerprint/Mo
9704360 -06	LIQUID, MW-8	04/03/97	TPGBMW Purgeable TPH/BTEX
9704360 -07	LIQUID, MW-9	04/03/97	TPHD_W Extractable TPH
9704360 -07	LIQUID, MW-9	04/03/97	TPHMOW Fuel Fingerprint/Mo
9704360 -07	LIQUID, MW-9	04/03/97	TPGBMW Purgeable TPH/BTEX

SEQUOIA ANALYTICAL



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

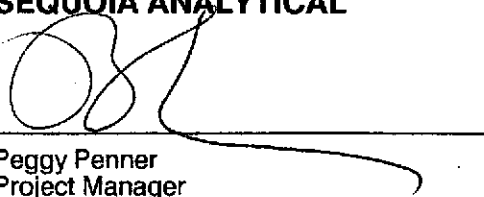
FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
9704360 -08	LIQUID, MW-10	04/03/97	TPHD_W Extractable TPH
9704360 -08	LIQUID, MW-10	04/03/97	TPHMOW Fuel Fingerprint/Mo
9704360 -08	LIQUID, MW-10	04/03/97	TPGBMW Purgeable TPH/BTEX
9704360 -09	LIQUID, MW-11	04/03/97	TPHD_W Extractable TPH
9704360 -09	LIQUID, MW-11	04/03/97	TPHMOW Fuel Fingerprint/Mo
9704360 -09	LIQUID, MW-11	04/03/97	TPGBMW Purgeable TPH/BTEX
9704360 -10	LIQUID, MW-12	04/03/97	TPHD_W Extractable TPH
9704360 -10	LIQUID, MW-12	04/03/97	TPHMOW Fuel Fingerprint/Mo
9704360 -10	LIQUID, MW-12	04/03/97	TPGBMW Purgeable TPH/BTEX
9704360 -11	LIQUID, MW-13	04/03/97	TPHD_W Extractable TPH
9704360 -11	LIQUID, MW-13	04/03/97	TPHMOW Fuel Fingerprint/Mo
9704360 -11	LIQUID, MW-13	04/03/97	TPGBMW Purgeable TPH/BTEX

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL



Peggy Penner
Project Manager



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112
Attention: Fran Thie

Project: Shell Oakland/970403X1

Enclosed are the results from samples received at Sequoia Analytical on April 3, 1997.
The requested analyses are listed below:

<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
9704361 -12	LIQUID, EB	04/03/97	TPHD_W Extractable TPH
9704361 -12	LIQUID, EB	04/03/97	TPHMOW Fuel Fingerprint/Mo
9704361 -12	LIQUID, EB	04/03/97	TPGBMW Purgeable TPH/BTEX
9704361 -13	LIQUID, DUP	04/03/97	TPHD_W Extractable TPH
9704361 -13	LIQUID, DUP	04/03/97	TPHMOW Fuel Fingerprint/Mo
9704361 -13	LIQUID, DUP	04/03/97	TPGBMW Purgeable TPH/BTEX

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL


Peggy Penner
Project Manager



**Sequoia
Analytical**

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell Oakland/970403X1 Sample Descript: MW-1 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9704360-01	Sampled: 04/03/97 Received: 04/03/97 Extracted: 04/09/97 Analyzed: 04/10/97 Reported: 04/17/97
------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------

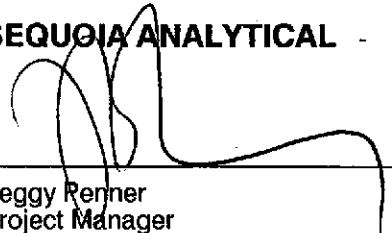
GC Batch Number: GC0409970HBPEXB
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50	3000 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	92

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Renner
Project Manager



Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Proj. ID: Shell Oakland/970403X1 Sample Descript: MW-1 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9704360-01	Sampled: 04/03/97 Received: 04/03/97 Extracted: 04/09/97 Analyzed: 04/10/97 Reported: 04/17/97
------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------


QC Batch Number: GC0409970HBPEXB
Instrument ID: GCHP4B

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil Chromatogram Pattern:	500	N.D.
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 92

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Peggy Penner
Project Manager



Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell Oakland/970403X1 Sample Descript: MW-1 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9704360-01	Sampled: 04/03/97 Received: 04/03/97 Analyzed: 04/12/97 Reported: 04/17/97
------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------

QC Batch Number: GC041297BTEX01A
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	5000	29000
Methyl t-Butyl Ether	250	4300
Benzene	50	2300
Toluene	50	170
Ethyl Benzene	50	2300
Xylenes (Total)	50	2900
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	150 Q

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager



Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell Oakland/970403X1 Sample Descript: MW-2 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9704360-02	Sampled: 04/03/97 Received: 04/03/97 Extracted: 04/10/97 Analyzed: 04/11/97 Reported: 04/17/97
Attention: Fran Thie		

QC Batch Number: GC0410970HBPEXA
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50	190 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	90

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager



**Sequoia
Analytical**

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell Oakland/970403X1 Sample Descript: MW-2 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9704360-02	Sampled: 04/03/97 Received: 04/03/97 Extracted: 04/10/97 Analyzed: 04/11/97 Reported: 04/17/97
Attention: Fran Thie		

QC Batch Number: GC0410970HBPEXA
Instrument ID: GCHP4B

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil Chromatogram Pattern:	500	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	90

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Renner
Project Manager



Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell Oakland/970403X1 Sample Descript: MW-2 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9704360-02	Sampled: 04/03/97 Received: 04/03/97 Analyzed: 04/14/97 Reported: 04/17/97
Attention: Fran Thie		

QC Batch Number: GC041497BTEX18A
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	1000	N.D.
Methyl t-Butyl Ether	50	2800
Benzene	10	N.D.
Toluene	10	N.D.
Ethyl Benzene	10	N.D.
Xylenes (Total)	10	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	103

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL -- ELAP #1210

Peggy Penner
Project Manager



Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell Oakland/970403X1 Sample Descript: MW-3 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9704360-03	Sampled: 04/03/97 Received: 04/03/97 Extracted: 04/09/97 Analyzed: 04/10/97 Reported: 04/17/97
------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------

QC Batch Number: GC0409970HBPEXB
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50	83 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 89

Analytes reported as N/D were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager



Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Client Proj. ID: Shell Oakland/970403X1
Sample Descript: MW-3
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9704360-03

Sampled: 04/03/97
Received: 04/03/97
Extracted: 04/09/97
Analyzed: 04/10/97
Reported: 04/17/97

Attention: Fran Thie

QC Batch Number: GC0409970HBPEXB
Instrument ID: GCHP4B

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil Chromatogram Pattern:	500	N.D.
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 89

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager



Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell Oakland/970403X1 Sample Descript: MW-3 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9704360-03	Sampled: 04/03/97 Received: 04/03/97 Analyzed: 04/12/97 Reported: 04/17/97
------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------

C Batch Number: GC041297BTEX01A
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	150
Methyl t-Butyl Ether	2.5	280
Benzene	0.50	3.2
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	0.81
Chromatogram Pattern:		C6-C12

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	121

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager



Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Client Proj. ID: Shell Oakland/970403X1
Sample Descript: MW-4
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9704360-04

Sampled: 04/03/97
Received: 04/03/97
Extracted: 04/09/97
Analyzed: 04/10/97
Reported: 04/17/97

QC Batch Number: GC0409970HBPEXB
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50	69 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	90

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager



**Sequoia
Analytical**

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell Oakland/970403X1 Sample Descript: MW-4 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9704360-04	Sampled: 04/03/97 Received: 04/03/97 Extracted: 04/09/97 Analyzed: 04/10/97 Reported: 04/17/97
Attention: Fran Thie		
C Batch Number: GC0409970HBPEXB Instrument ID: GCHP4B		

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil Chromatogram Pattern:	500	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	90

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Fenner
Project Manager



Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Proj. ID: Shell Oakland/970403X1 Sample Descript: MW-4 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9704360-04	Sampled: 04/03/97 Received: 04/03/97 Analyzed: 04/12/97 Reported: 04/17/97
------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------

QC Batch Number: GC041297BTEX01A
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	110

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell Oakland/970403X1 Sample Descript: MW-6 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9704360-05	Sampled: 04/03/97 Received: 04/03/97 Extracted: 04/09/97 Analyzed: 04/10/97 Reported: 04/17/97
Attention: Fran Thie		

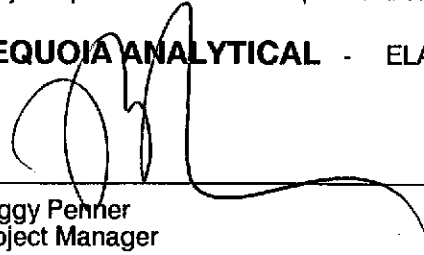
GC Batch Number: GC0409970HBPEXB
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50	650 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	91

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Peggy Penner
Project Manager



**Sequoia
Analytical**

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell Oakland/970403X1 Sample Descript: MW-6 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9704360-05	Sampled: 04/03/97 Received: 04/03/97 Extracted: 04/09/97 Analyzed: 04/10/97 Reported: 04/17/97
Attention: Fran Thie		

QC Batch Number: GC0409970HBPEXB
Instrument ID: GCHP4B

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil Chromatogram Pattern:	500	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	91

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Client Proj. ID: Shell Oakland/970403X1
Sample Descript: MW-6
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9704360-05

Sampled: 04/03/97
Received: 04/03/97
Analyzed: 04/14/97
Reported: 04/17/97

Attention: Fran Thie

QC Batch Number: GC041497BTEX18A
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas		
Methyl t-Butyl Ether	2500	N.D.
Benzene	125	10000
Toluene	25	30
Ethyl Benzene	25	N.D.
Xylenes (Total)	25	32
Chromatogram Pattern:	25	N.D.

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	101

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Aggy Penner
Project Manager



Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell Oakland/970403X1 Sample Descript: MW-8 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9704360-06	Sampled: 04/03/97 Received: 04/03/97 Extracted: 04/09/97 Analyzed: 04/10/97 Reported: 04/17/97
Attention: Fran Thie		

QC Batch Number: GC0409970HBPEXB
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50	62 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 91

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager



**Sequoia
Analytical**

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Attention: Fran Thie

Client Proj. ID: Shell Oakland/970403X1
Sample Descript: MW-8
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9704360-06

Sampled: 04/03/97
Received: 04/03/97
Extracted: 04/09/97
Analyzed: 04/10/97
Reported: 04/17/97

C Batch Number: GC0409970HBPEXB
Instrument ID: GCHP4B

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil Chromatogram Pattern:	500	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	91

analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell Oakland/970403X1 Sample Descript: MW-8 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9704360-06	Sampled: 04/03/97 Received: 04/03/97 Analyzed: 04/14/97 Reported: 04/17/97
------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------

QC Batch Number: GC041497BTEX18A
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	0.91
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	99

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager



**Sequoia
Analytical**

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Client Proj. ID: Shell Oakland/970403X1
Sample Descript: MW-9
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9704360-07

Sampled: 04/03/97
Received: 04/03/97
Extracted: 04/09/97
Analyzed: 04/10/97
Reported: 04/17/97

Attention: Fran Thie

GC Batch Number: GC0409970HBPEXB
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50	2300 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	95

Analyses reported as N.D. were not present above the stated limit of detection.

EQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell Oakland/970403X1 Sample Descript: MW-9 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9704360-07	Sampled: 04/03/97 Received: 04/03/97 Extracted: 04/09/97 Analyzed: 04/10/97 Reported: 04/17/97
Attention: Fran Thie		

QC Batch Number: GC0409970HBPEXB
Instrument ID: GCHP4B

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil Chromatogram Pattern:	500	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	95

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager



Sequoia Analytical

680 Chesapeake Drive Redwood City, CA 94063 (415) 364-9600 FAX (415) 364-9233
 404 N. Wiget Lane Walnut Creek, CA 94598 (510) 988-9600 FAX (510) 988-9673
 819 Striker Avenue, Suite 8 Sacramento, CA 95834 (916) 921-9600 FAX (916) 921-0100

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell Oakland/970403X1 Sample Descript: MW-9 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9704360-07	Sampled: 04/03/97 Received: 04/03/97 Analyzed: 04/14/97 Reported: 04/17/97
------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------

QC Batch Number: GC041497BTEX01A
 Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	10000	36000
Methyl t-Butyl Ether	500	N.D.
Benzene	100	9700
Toluene	100	140
Ethyl Benzene	100	580
Xylenes (Total)	100	3900
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70	130
		107

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


 Peggy Perner
 Project Manager



**Sequoia
Analytical**

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell Oakland/970403X1 Sample Descript: MW-10 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9704360-08	Sampled: 04/03/97 Received: 04/03/97 Extracted: 04/14/97 Analyzed: 04/15/97 Reported: 04/17/97
Attention: Fran Thie		

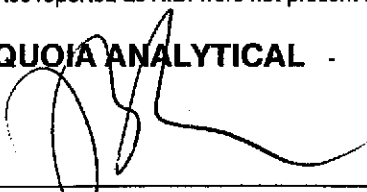
QC Batch Number: GC0411970HBPEXC
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	100	3400 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 101

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Peggy Penner
Project Manager



Sequoia Analytical

680 Chesapeake Drive Redwood City, CA 94063 (415) 364-9600 FAX (415) 364-9233
 404 N. Wiget Lane Walnut Creek, CA 94598 (510) 988-9600 FAX (510) 988-9673
 819 Striker Avenue, Suite 8 Sacramento, CA 95834 (916) 921-9600 FAX (916) 921-0100

Blaine Tech Services	Client Proj. ID: Shell Oakland/970403X1	Sampled: 04/03/97
1680 Rogers Avenue	Sample Descript: MW-10	Received: 04/03/97
San Jose, CA 95112	Matrix: LIQUID	Extracted: 04/14/97
Attention: Fran Thie	Analysis Method: EPA 8015 Mod	Analyzed: 04/15/97
	Lab Number: 9704360-08	Reported: 04/17/97

GC Batch Number: GC0411970HBPEXC
 Instrument ID: GCHP4A

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil Chromatogram Pattern:	1000	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	101

Analyses reported as N.D. were not present above the stated limit of detection.

EQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
 Project Manager



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell Oakland/970403X1 Sample Descript: MW-10 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9704360-08	Sampled: 04/03/97 Received: 04/03/97 Analyzed: 04/14/97 Reported: 04/17/97
Attention: Fran Thie		

QC Batch Number: GC041497BTEX18A
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	10000	38000
Methyl t-Butyl Ether	500	2300
Benzene	100	12000
Toluene	100	2300
Ethyl Benzene	100	1400
Xylenes (Total)	100	4500
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	102

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager



**Sequoia
Analytical**

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Client Proj. ID: Shell Oakland/970403X1
Sample Descript: MW-11
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9704360-09

Sampled: 04/03/97
Received: 04/03/97
Extracted: 04/09/97
Analyzed: 04/12/97
Reported: 04/17/97

Attention: Fran Thie

QC Batch Number: GC0409970HBPEXB
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	91

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager



Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell Oakland/970403X1 Sample Descript: MW-11 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9704360-09	Sampled: 04/03/97 Received: 04/03/97 Extracted: 04/09/97 Analyzed: 04/12/97 Reported: 04/17/97
------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------

QC Batch Number: GC0409970HBPEXB
Instrument ID: GCHP4B

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil Chromatogram Pattern:	500	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	91

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager



Sequoia Analytical

680 Chesapeake Drive	Redwood City, CA 94063	(415) 364-9600	FAX (415) 364-9233
404 N. Wiget Lane	Walnut Creek, CA 94598	(510) 988-9600	FAX (510) 988-9673
819 Striker Avenue, Suite 8	Sacramento, CA 95834	(916) 921-9600	FAX (916) 921-0100

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Proj. ID: Shell Oakland/970403X1 Sample Descript: MW-11 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9704360-09	Sampled: 04/03/97 Received: 04/03/97 Analyzed: 04/14/97 Reported: 04/17/97
------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------

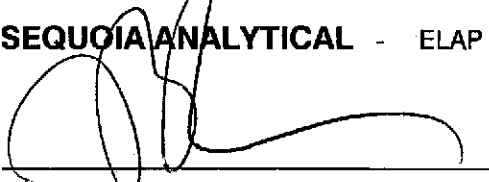
QC Batch Number: GC041497BTEX18A
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	104

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Peggy Penner
Project Manager



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell Oakland/970403X1 Sample Descript: MW-12 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9704360-10	Sampled: 04/03/97 Received: 04/03/97 Extracted: 04/09/97 Analyzed: 04/12/97 Reported: 04/17/97
Attention: Fran Thie		

QC Batch Number: GC0409970HBPEXB
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50	74 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	95

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager



**Sequoia
Analytical**

680 Chesapeake Drive	Redwood City, CA 94063	(415) 364-9600	FAX (415) 364-9233
404 N. Wiget Lane	Walnut Creek, CA 94598	(510) 988-9600	FAX (510) 988-9673
1819 Striker Avenue, Suite 8	Sacramento, CA 95834	(916) 921-9600	FAX (916) 921-0100

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Proj. ID: Shell Oakland/970403X1 Sample Descript: MW-12 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9704360-10	Sampled: 04/03/97 Received: 04/03/97 Extracted: 04/09/97 Analyzed: 04/12/97 Reported: 04/17/97
------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------

C Batch Number: GC0409970HBPEXB
Instrument ID: GCHP4B

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil Chromatogram Pattern:	500	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	95

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager



Sequoia Analytical

680 Chesapeake Drive	Redwood City, CA 94063	(415) 364-9600	FAX (415) 364-9233
404 N. Wiget Lane	Walnut Creek, CA 94598	(510) 988-9600	FAX (510) 988-9673
819 Striker Avenue, Suite 8	Sacramento, CA 95834	(916) 921-9600	FAX (916) 921-0100

Blaine Tech Services	Client Proj. ID: Shell Oakland/970403X1	Sampled: 04/03/97
1680 Rogers Avenue	Sample Descript: MW-12	Received: 04/03/97
San Jose, CA 95112	Matrix: LIQUID	
Attention: Fran Thie	Analysis Method: 8015Mod/8020	Analyzed: 04/12/97
	Lab Number: 9704360-10	Reported: 04/17/97

QC Batch Number: GC041297BTEX01A
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	108

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager



**Sequoia
Analytical**

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Client Proj. ID: Shell Oakland/970403X1
Sample Descript: MW-13
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9704360-11

Sampled: 04/03/97
Received: 04/03/97
Extracted: 04/09/97
Analyzed: 04/12/97
Reported: 04/17/97

Attention: Fran Thie

GC Batch Number: GC0409970HBPEXB
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	98

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager



**Sequoia
Analytical**

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Client Proj. ID: Shell Oakland/970403X1
Sample Descript: MW-13
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9704360-11

Sampled: 04/03/97
Received: 04/03/97
Extracted: 04/09/97
Analyzed: 04/12/97
Reported: 04/17/97

QC Batch Number: GC0409970HBPEXB
Instrument ID: GCHP4B

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil Chromatogram Pattern:	500	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	98

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Panner
Project Manager



Sequoia Analytical

680 Chesapeake Drive	Redwood City, CA 94063	(415) 364-9600	FAX (415) 364-9233
404 N. Wiget Lane	Walnut Creek, CA 94598	(510) 988-9600	FAX (510) 988-9673
819 Striker Avenue, Suite 8	Sacramento, CA 95834	(916) 921-9600	FAX (916) 921-0100

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Proj. ID: Shell Oakland/970403X1 Sample Descript: MW-13 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9704360-11	Sampled: 04/03/97 Received: 04/03/97 Analyzed: 04/12/97 Reported: 04/17/97
------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------

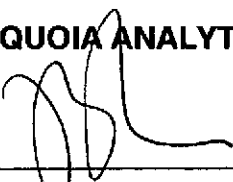
QC Batch Number: GC041297BTEX01A
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	99

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Peggy Penner
Project Manager



**Sequoia
Analytical**

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Attention: Fran Thie

QC Batch Number: GC0409970HBPEXB
Instrument ID: GCHP4B

Client Proj. ID: Shell Oakland/970403X1
Sample Descript: EB
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9704361-12

Sampled: 04/03/97
Received: 04/03/97
Extracted: 04/09/97
Analyzed: 04/11/97
Reported: 04/17/97

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte

Detection Limit
ug/L

Sample Results
ug/L

50

N.D.

TEPH as Diesel
Chromatogram Pattern:

Control Limits %

% Recovery

50

150

87

Surrogates
n-Pentacosane (C25)

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager



**Sequoia
Analytical**

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Attention: Fran Thie

QC Batch Number: GC0409970HBPEXB
Instrument ID: GCHP4B

Client Proj. ID: Shell Oakland/970403X1
Sample Descript: EB
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9704361-12

Sampled: 04/03/97
Received: 04/03/97
Extracted: 04/09/97
Analyzed: 04/11/97
Reported: 04/17/97

Fuel Fingerprint : Motor Oil

Analyte

Detection Limit
ug/L

Sample Results
ug/L

500

N.D.

Extractable HC as Motor Oil
Chromatogram Pattern:


Control Limits %
50 150

% Recovery
87

Surrogates
n-Pentacosane (C25)

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager



Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Attention: Fran Thie

Client Proj. ID: Shell Oakland/970403X1
Sample Descript: EB
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9704361-12

Sampled: 04/03/97
Received: 04/03/97

Analyzed: 04/12/97
Reported: 04/17/97

QC Batch Number: GC041297BTEX06A
Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	88

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Proj. ID: Shell Oakland/970403X1 Sample Descript: EB Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9704361-12	Sampled: 04/03/97 Received: 04/03/97 Extracted: 04/09/97 Analyzed: 04/11/97 Reported: 04/17/97
------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------

QC Batch Number: GC0409970HBPEXB
Instrument ID: GCHP4B

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil Chromatogram Pattern:	500	N.D.
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 87

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager



**Sequoia
Analytical**

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Client Proj. ID: Shell Oakland/970403X1
Sample Descript: EB
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9704361-12

Sampled: 04/03/97
Received: 04/03/97
Analyzed: 04/12/97
Reported: 04/17/97

QC Batch Number: GC041297BTEX06A
Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	88

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell Oakland/970403X1 Sample Descript: DUP Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9704361-13	Sampled: 04/03/97 Received: 04/03/97 Extracted: 04/09/97 Analyzed: 04/11/97 Reported: 04/17/97
QC Batch Number: GC0409970HBPEXB Instrument ID: GCHP4B		

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50	3000 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	104

analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Proj. ID: Shell Oakland/970403X1 Sample Descript: DUP Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9704361-13	Sampled: 04/03/97 Received: 04/03/97 Extracted: 04/09/97 Analyzed: 04/11/97 Reported: 04/17/97
------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------

QC Batch Number: GC0409970HBPEXB
Instrument ID: GCHP4B

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil Chromatogram Pattern:	500	N.D.
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 104

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Fenner
Project Manager



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Attention: Fran Thie

Client Proj. ID: Shell Oakland/970403X1
Sample Descript: DUP
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9704361-13

Sampled: 04/03/97
Received: 04/03/97
Analyzed: 04/14/97
Reported: 04/17/97

GC Batch Number: GC041497BTEX01A
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	10000	52000
Methyl t-Butyl Ether	500	2100
Benzene	100	12000
Toluene	100	2300
Ethyl Benzene	100	1400
Xylenes (Total)	100	4500
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	115

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager



Sequoia
Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112
Attention: Fran Thie

Client Proj. ID: Shell Oakland/970403X1

Received: 04/03/97

Lab Proj. ID: 9704361

Reported: 04/17/97

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 48 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL


Peggy Renner
Project Manager



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Shell Oakland / 970403X1
Matrix: Liquid

Work Order #: 9704360 -01, 02 -04, 10 -11

Reported: Apr 21, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC041297BTEX01A	GC041297BTEX01A	GC041297BTEX01A	GC041297BTEX01A	GC041297BTEX01A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	J. Heider	J. Heider	J. Heider	J. Heider	J. Heider
MS/MSD #:	970437004	970437004	970437004	970437004	970437004
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	4/12/97	4/12/97	4/12/97	4/12/97	4/12/97
Analyzed Date:	4/12/97	4/12/97	4/12/97	4/12/97	4/12/97
Instrument I.D.#:	GCHP01	GCHP01	GCHP01	GCHP01	GCHP01
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	11	11	11	31	61
MS % Recovery:	110	110	110	103	102
Dup. Result:	9.7	9.3	9.3	27	54
MSD % Recov.:	97	93	93	90	90
RPD:	13	17	17	14	12
RPD Limit:	0-50	0-50	0-50	0-50	0-50

LCS #:	BLK041297BSA	BLK041297BSA	LK041297BSA	BLK041297BSA	BLK041297BSA
Prepared Date:	4/12/97	4/12/97	4/12/97	4/12/97	4/12/97
Analyzed Date:	4/12/97	4/12/97	4/12/97	4/12/97	4/12/97
Instrument I.D.#:	GCHP01	GCHP01	GCHP01	GCHP01	GCHP01
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	9.4	9.1	9.0	26	52
LCS % Recov.:	94	91	90	97	87

MS/MSD	60-140	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130	70-130
Control Limits					

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9704360.BLA <1>



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Shell Oakland / 970403X1
Matrix: Liquid

Work Order #: 9704360 -02, 05 -06, 08 -09

Reported: Apr 21, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC041297BTEX18A	GC041297BTEX18A	GC041297BTEX18A	GC041297BTEX18A	GC041297BTEX18A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	A. Porter	A. Porter	A. Porter	A. Porter	A. Porter
MS/MSD #:	970407903	970407903	970407903	970407903	970407903
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	4/14/97	4/14/97	4/14/97	4/14/97	4/14/97
Analyzed Date:	4/14/97	4/14/97	4/14/97	4/14/97	4/14/97
Instrument I.D.#:	GCHP18	GCHP18	GCHP18	GCHP18	GCHP18
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	9.9	10	10	30	63
MS % Recovery:	99	100	100	100	105
Dup. Result:	9.3	9.3	9.3	27	63
MSD % Recov.:	93	93	93	90	105
RPD:	6.2	7.3	7.3	11	0.0
RPD Limit:	0-50	0-50	0-50	0-50	0-50

LCS #:	BLK041497BSA	BLK041497BSA	LK041497BSA	BLK041497BSA	BLK041497BSA
Prepared Date:	4/14/97	4/14/97	4/14/97	4/14/97	4/14/97
Analyzed Date:	4/14/97	4/14/97	4/14/97	4/14/97	4/14/97
Instrument I.D.#:	GCHP18	GCHP18	GCHP18	GCHP18	GCHP18
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	9.4	9.4	9.4	27	61
LCS % Recov.:	94	94	94	90	102

MS/MSD	60-140	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130	70-130
Control Limits					

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9704360.BLA <2>



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Shell Oakland / 970403X1
Matrix: Liquid

Work Order #: 9704360 -07

Reported: Apr 21, 1997

9704361 -13

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC041497BTEX01A	GC041497BTEX01A	GC041497BTEX01A	GC041497BTEX01A	GC041497BTEX01A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	A. Porter	A. Porter	A. Porter	A. Porter	A. Porter
MS/MSD #:	970407903	970407903	970407903	970407903	970407903
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	4/14/97	4/14/97	4/14/97	4/14/97	4/14/97
Analyzed Date:	4/14/97	4/14/97	4/14/97	4/14/97	4/14/97
Instrument I.D.#:	GCHP01	GCHP01	GCHP01	GCHP01	GCHP01
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	11	11	11	33	63
MS % Recovery:	110	110	110	110	105
Dup. Result:	13	12	12	35	69
MSD % Recov.:	130	120	120	117	115
RPD:	17	8.7	8.7	5.9	9.1
RPD Limit:	0-50	0-50	0-50	0-50	0-50

LCS #:	BLK041497BSA	BLK041497BSA	LK041497BSA	BLK041497BSA	BLK041497BSA
Prepared Date:	4/14/97	4/14/97	4/14/97	4/14/97	4/14/97
Analyzed Date:	4/14/97	4/14/97	4/14/97	4/14/97	4/14/97
Instrument I.D.#:	GCHP01	GCHP01	GCHP01	GCHP01	GCHP01
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	11	11	11	32	62
LCS % Recov.:	110	110	110	107	103

MS/MSD	60-140	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130	70-130
Control Limits					

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

9704360.BLA <3>

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager



Sequoia Analytical

680 Chesapeake Drive Redwood City, CA 94063 (415) 364-9600 FAX (415) 364-9233
 404 N. Wiget Lane Walnut Creek, CA 94598 (510) 988-9600 FAX (510) 988-9673
 819 Striker Avenue, Suite 8 Sacramento, CA 95834 (916) 921-9600 FAX (916) 921-0100

Blaine Tech Services, Inc.
 1680 Rogers Avenue
 San Jose, CA 95112
 Attention: Fran Thle

Client Project ID: Shell Oakland / 970403X1
 Matrix: Liquid

Work Order #: 9704361 -12

Reported: Apr 21, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC041297BTEX06A	GC041297BTEX06A	GC041297BTEX06A	GC041297BTEX06A	GC041297BTEX06A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	J. Heider	J. Heider	J. Heider	J. Heider	J. Heider
MS/MSD #:	970434005	970434005	970434005	970434005	970434005
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	4/12/97	4/12/97	4/12/97	4/12/97	4/12/97
Analyzed Date:	4/12/97	4/12/97	4/12/97	4/12/97	4/12/97
Instrument I.D.#:	GCHP06	GCHP06	GCHP06	GCHP06	GCHP06
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	9.3	9.3	9.3	28	76
MS % Recovery:	93	93	93	93	127
Dup. Result:	9.7	9.6	9.7	29	78
MSD % Recov.:	97	96	97	97	130
RPD:	4.2	3.2	4.2	3.5	2.6
RPD Limit:	0-50	0-50	0-50	0-50	0-50

LCS #:	BLK041297BSA	BLK041297BSA	LK041297BSA	BLK041297BSA	BLK041297BSA
Prepared Date:	4/12/97	4/12/97	4/12/97	4/12/97	4/12/97
Analyzed Date:	4/12/97	4/12/97	4/12/97	4/12/97	4/12/97
Instrument I.D.#:	GCHP06	GCHP06	GCHP06	GCHP06	GCHP06
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	8.0	7.9	7.9	23	63
LCS % Recov.:	80	79	79	77	105

MS/MSD	60-140	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130	70-130
Control Limits					

SEQUOIA ANALYTICAL

Peggy Penner
 Project Manager

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9704360.BLA <4>



**Sequoia
Analytical**

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Shell Oakland / 970403X1
Matrix: Liquid

Work Order #: 9704360 -01, 03 -07, 09 -11

Reported: Apr 21, 1997

9704361 -12 -13

QUALITY CONTROL DATA REPORT

Analyte: Diesel

QC Batch#: GC0409970HBPEXB

Analy. Method: EPA 8015M

Prep. Method: EPA 3510

Analyst: B. Sullivan

MS/MSD #: 970417210

Sample Conc.: 3900

Prepared Date: 4/9/97

Analyzed Date: 4/11/97

Instrument I.D.#: GCHP4B

Conc. Spiked: 1000 µg/L

Result: 8600

MS % Recovery: 470

Dup. Result: 8500

MSD % Recov.: 460

RPD: 1.2

RPD Limit: 0-50

LCS #: BLK040997BS

Prepared Date: 4/9/97

Analyzed Date: 4/10/97

Instrument I.D.#: GCHP4B

Conc. Spiked: 1000 µg/L

LCS Result: 1100

LCS % Recov.: 110

MS/MSD 60-140

LCS 50-150

Control Limits

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9704360.BLA <5>



Sequoia Analytical

680 Chesapeake Drive	Redwood City, CA 94063	(415) 364-9600	FAX (415) 364-9233
404 N. Wiget Lane	Walnut Creek, CA 94598	(510) 988-9600	FAX (510) 988-9673
819 Striker Avenue, Suite 8	Sacramento, CA 95834	(916) 921-9600	FAX (916) 921-0100

Blaine Tech Services, Inc. 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Project ID: Shell Oakland / 970403X1 Matrix: Liquid	Work Order #: 9704360 -02	Reported: Apr 21, 1997
------------------------------------------------------------------------------------------------	---------------------------------------------------------------	---------------------------	------------------------

QUALITY CONTROL DATA REPORT

Analyte:	Diesel
QC Batch#:	GC0410970HBPEXA
Analy. Method:	EPA 8015M
Prep. Method:	EPA 3510

Analyst:	B. Sullivan
MS/MSD #:	970432204
Sample Conc.:	1900
Prepared Date:	4/10/97
Analyzed Date:	4/12/97
Instrument I.D.#:	GCHP4A
Conc. Spiked:	1000 µg/L

Result:	3100
MS % Recovery:	120

Dup. Result:	3100
MSD % Recov.:	120

RPD:	0.0
RPD Limit:	0-50

LCS #:	BLK041097S
Prepared Date:	4/10/97
Analyzed Date:	4/12/97
Instrument I.D.#:	GCHP4A
Conc. Spiked:	1000 µg/L
LCS Result:	1200
LCS % Recov.:	120

MS/MSD	60-140
LCS	50-150
Control Limits	

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9704360.BLA <6>



Sequoia Analytical

680 Chesapeake Drive Redwood City, CA 94063 (415) 364-9600 FAX (415) 364-9233
 404 N. Wiget Lane Walnut Creek, CA 94598 (510) 988-9600 FAX (510) 988-9673
 819 Striker Avenue, Suite 8 Sacramento, CA 95834 (916) 921-9600 FAX (916) 921-0100

Blaine Tech Services, Inc.
 1680 Rogers Avenue
 San Jose, CA 95112
 Attention: Fran Thie

Client Project ID: Shell Oakland / 970403X1
 Matrix: Liquid
 Work Order #: 9704360 -08

Reported: Apr 21, 1997

QUALITY CONTROL DATA REPORT

Analyte: Diesel
QC Batch#: GC0411970HBPEXC
Analy. Method: EPA 8015M
Prep. Method: EPA 3510

Analyst: G. Fish
MS/MSD #: 970439605
Sample Conc.: N.D.
Prepared Date: 4/11/97
Analyzed Date: 4/14/97
Instrument I.D.#: GCHP4A
Conc. Spiked: 1000 µg/L

Result: 1300
MS % Recovery: 130

Dup. Result: 1300
MSD % Recov.: 130

RPD: 0.0
RPD Limit: 0-50

ENVIRONMENTAL
 PROTECTION
 57 JUL 28 PM 4:25

LCS #:	BLK041197CS	BLK041497S
Prepared Date:	4/11/97	4/14/97
Analyzed Date:	4/14/97	4/15/97
Instrument I.D.#:	GCHP4A	GCHP4A
Conc. Spiked:	1000 µg/L	1000 µg/L
LCS Result:	1200	1200
LCS % Recov.:	120	120

MS/MSD	60-140	60-140
LCS	50-150	50-150

Control Limits

SEQUOIA ANALYTICAL

 Peggy Penner
 Project Manager

Please Note:
 The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS= Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9704360.BLA <7>