



September 17, 1997

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

CL
#988
BO

Re: **Third Quarter 1997 Monitoring Report**
Shell Service Station
1285 Bancroft Avenue
San Leandro, California
WIC #204-6852-0703 94577
Cambria Project #24-314-397

Dear Mr. Klettke:

On behalf of Shell Oil Products Company, Cambria Environmental Technology, Inc. (Cambria) is submitting this monitoring report to satisfy the quarterly reporting requirements prescribed by California Administrative Code Title 23 Waters, Division 3, Chapter 16, Article 5, Section 2652.d.

THIRD 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 (Tables 2A and 2B) and prepared a ground water elevation contour map (Figure 1).

CAMBRIA
ENVIRONMENTAL
TECHNOLOGY, INC.
1144 65TH STREET,
SUITE B
OAKLAND,
CA 94608

ANTICIPATED FOURTH QUARTER 1997 ACTIVITIES

On January 27, 1997, Cambria submitted an *Interim Remedial Action Plan* to the Alameda County Department of Environmental Health. The plan proposed placing oxygen releasing compounds (ORCs) into monitoring wells MW-2 and MW-3 as an appropriate, cost-effective method of reducing hydrocarbons in the source area, and revised the sampling program. We will install the ORCs and implement the revised sampling program during the fourth quarter 1997.

(510) 420-0700
(415) 920-9170

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Dale Klettke
September 17, 1997

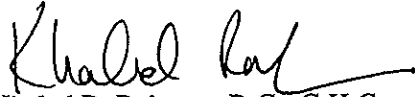
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Blaine will measure ground water depths, collect ground water samples, and take dissolved oxygen readings from the site wells. Blaine will also install ORCs in wells MW-2 and MW-3. Cambria will submit a report presenting a summary of activities for the upcoming quarter.

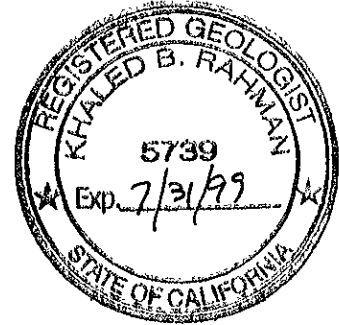
CLOSING

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

Sincerely,
Cambria Environmental Technology, Inc.



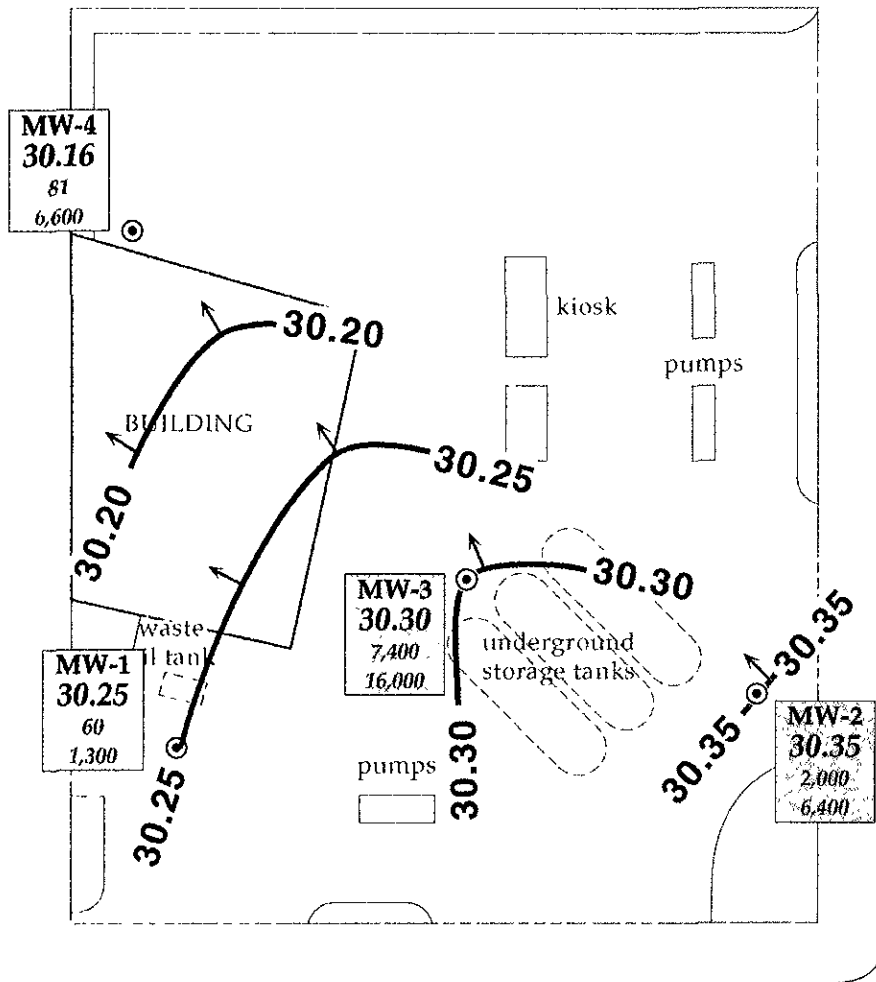
Khaled B. Rahman, R.G., C.H.G.
Senior Geologist



Attachments: A - Blaine Quarterly Ground Water Monitoring Report

cc: A. E. (Alex) Perez, Shell Oil Products Company, P.O. Box 4023, Concord, California 94524

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EXPLANATION

⊙ MW-2 Monitoring well

— XX.X
Ground water elevation contour, ft above mean sea level, approximately located, dashed where inferred

→ Inferred ground water flow direction

MW-1
ELEV.
Benz. - Date
MTBE - Date

1. Ground water elevation, ft above mean sea level
2. Benzene and MTBE concentrations are in parts per billion (ppb)
3. Date is most recent sampling unless otherwise indicated

ESTUDILLO AVENUE

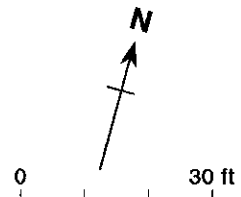


Figure 1. Ground Water Elevation Contours - July 2, 1997 - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

Table 1. Ground Water Elevation Data - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

Well ID	Date	Top-of-Box Elevation (ft above msl)	Depth to Water (ft below TOB)	Ground Water Elevation (ft above msl)	
MW-1	03/13/90	66.29	42.65	23.64	
	06/12/90		43.14	23.15	
	09/13/90		44.71	21.58	
	12/18/90		45.23	21.06	
	03/07/91		43.32	22.97	
	06/07/91		42.18	24.11	
	09/17/91		44.85	21.44	
	03/01/92		41.56	24.73	
	06/03/92		40.74	25.55	
	09/01/92		43.05	23.24	
	12/07/92		44.19	22.10	
	03/01/93		34.96	31.33	
	06/22/93		36.75	29.54	
	09/09/93		39.36	26.93	
	12/13/93		40.74	25.55	
	03/03/94		38.40	27.89	
	07/27/94		66.90 ^a	40.49	26.41
	08/09/94			40.84	26.06
	10/05/94			41.98	24.92
	11/11/94	41.34		25.56	
	12/29/94	42.06		24.84	
	01/04/95	39.90		27.00	
	04/14/95	31.02		35.88	
	07/12/95	34.61		32.29	
	12/14/95	39.24		27.66	
	01/10/96	38.34	28.56		
	04/25/96	31.95	34.95		
	07/09/96	34.45	32.45		
	10/02/96	37.72	29.18		
	01/09/97	32.25	34.65		
04/09/97	32.90	34.00			
07/02/97		36.65	30.25		
MW-2	03/01/92	66.91	41.57	25.34	
	06/03/92		40.56	26.35	
	09/01/92		42.94	23.97	
	12/07/92		44.13	22.78	
	03/01/93		34.82	32.09	
	06/22/93		36.64	30.27	
	09/09/93		39.24	27.67	
	12/13/93		40.64	26.27	
	03/03/94		38.98	27.93	
	07/27/94	66.91 ^a	40.40	26.51	
08/09/94	40.71		26.20		

Table 1. Ground Water Elevation Data - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California (continued)

Well ID	Date	Top-of-Box Elevation (ft above msl)	Depth to Water (ft below TOB)	Ground Water Elevation (ft above msl)
	10/05/94		41.89	25.02
	11/11/94		41.22	25.69
	12/29/94		41.99	24.92
	01/04/95		39.81	27.10
	04/14/95		30.83	36.08
	07/12/95		34.50	32.41
	12/14/95		39.22	27.69
	01/10/96		38.22	28.69
	04/25/96		31.78	35.13
	07/09/96		34.35	32.56
	10/02/96		37.56	29.35
	01/09/97		32.07	34.84
	04/09/97		32.78	34.13
	07/02/97		36.56	30.35
MW-3	03/01/92	66.31	42.00	24.31
	06/03/92		44.30	22.01
	09/01/92		43.62	22.69
	12/07/92		44.77	21.54
	03/01/93		35.50	30.81
	06/22/93		37.30	29.01
	09/09/93		39.90	26.41
	12/13/93		41.30	25.01
	03/03/94		38.32	27.99
	07/27/94	67.52 ^a	41.07	26.45
	08/09/94		41.37	26.15
	10/05/94		42.55	24.97
	11/11/94		41.86	25.66
	12/29/94		42.59	24.93
	01/04/95		40.54	26.98
	04/14/95		31.50	36.02
	07/12/95		35.14	32.38
	12/14/95		39.86	27.66
	01/10/96		39.98	27.54
	04/25/96		32.38	35.14
	07/09/96		34.93	32.59
	10/02/96		38.20	29.32
	01/09/97		32.81	34.71
	04/09/97		33.42	34.10
	07/02/97		37.22	30.30
MW-4	07/27/94	68.08	41.78	26.30
	08/09/94		42.09	25.99
	10/05/94		43.25	24.83

Table 1. Ground Water Elevation Data - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California (continued)

Well ID	Date	Top-of-Box Elevation (ft above msl)	Depth to Water (ft below TOB)	Ground Water Elevation (ft above msl)
	11/11/94		42.54	25.54
	12/29/94		43.34	24.74
	01/04/95		41.57	26.51
	04/14/95		32.24	35.84
	07/12/95		35.88	32.20
	12/14/95		40.54	27.54
	01/10/96		39.59	28.49
	04/25/96		33.22	34.86
	07/09/96		35.70	32.38
	10/02/96		38.95	29.13
	01/09/97		33.04	35.04
	04/09/97		34.15	33.93
	07/02/97		37.92	30.16

Notes and Abbreviations:

- a = Top-of-casing elevation resurveyed March 29, 1994
- ft = Feet
- msl = Mean sea level
- TOB = Top of box

Table 2A. Analytic Results for Ground Water - Fuel Compounds - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	B	T	E	X	MTBE
MW-1	09/17/91	44.85	50 ^a	160 ^b	<0.5	<0.5	<0.5	<0.5	—
	03/01/92	41.56	<50	<50	<0.5	<0.5	<0.5	<0.5	—
	06/03/92	40.74	<50	—	0.8	<0.5	0.9	<0.5	—
	09/01/92	43.05	<50	—	<0.5	5.8	5.3	7.2	—
	12/07/92	44.19	68	—	<0.5	0.8	<0.5	1.2	—
	03/01/93	34.96	<50	—	<0.5	<0.5	<0.5	<0.5	—
	03/01/93 ^{dnp}	34.96	<50	—	<0.5	<0.5	<0.5	<0.5	—
	06/22/93	36.75	<50	—	<0.5	<0.5	<0.5	<0.5	—
	09/09/93	39.36	200 ^c	—	16	5.2	2.0	<0.5	—
	12/13/93	40.74	89 ^d	—	3.4	<0.5	<0.5	<0.5	—
	03/03/94	38.40	65 ^d	—	2.6	<0.5	<0.5	<0.5	—
	07/27/94	40.49	180	—	30	1.8	2.6	5.0	—
	07/27/94 ^{dnp}	40.49	240	—	25	2.2	2.2	4.0	—
	10/05/94	41.98	<50	—	<0.3	<0.3	<0.3	<0.6	—
	01/04/95	39.90	<50	—	2.4	<0.5	<0.5	<0.5	—
	01/04/95 ^{dnp}	39.90	<50	—	2.5	<0.5	<0.5	<0.5	—
	04/14/95	35.88	<50	—	<0.5	0.5	<0.5	<0.5	—
	04/14/95 ^{dnp}	35.88	<50	—	<0.5	<0.5	<0.5	<0.5	—
	07/12/95	34.61	<50	—	1.2	0.8	<0.5	<0.5	—
	12/14/95	39.24	380	—	230	9.0	1.1	49	—
	01/10/96	38.34	60	—	3.5	<0.5	<0.5	0.5	—
	04/25/96	31.95	<50	—	3.3	2.4	1.2	5.4	—
	07/09/96	34.45	810	—	29	7.3	<5.0	11	1,800
	10/02/96	37.72	<125	—	3.1	<1.2	<1.2	<1.2	960
	01/09/97	32.25	<250	—	<2.5	<2.5	<2.5	<2.5	510
	04/09/97	32.90	<50	—	<0.5	<0.5	<0.5	<0.5	130
	07/02/97	36.65	<250	—	60	7.6	4.2	18	1,300

Table 2A. Analytic Results for Ground Water - Fuel Compounds - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	B	parts per billion (µg/L)				MTBE
						T	E	X		
MW-2	03/01/92	41.57	910	<50	11	5.2	50	140	---	
	06/03/92	40.56	1,400	---	33	16	150	240	---	
	09/01/92	42.94	230	---	5.2	4.1	15	19	---	
	09/01/92 ^{dup}	42.94	320	---	5.6	5	18	220	---	
	12/07/92	44.13	240	---	1.5	1.3	9.5	9.9	---	
	12/07/92 ^{dup}	44.13	<50	---	1.7	1	13	12	---	
	03/01/93	34.82	230	---	260	310	27	66	---	
	06/22/93	36.64	220	---	18	3.4	3.6	5.2	---	
	06/22/93 ^{dup}	36.64	320	---	29	4.8	4.2	6.1	---	
	09/09/93	39.24	260	---	18	4.6	16	12	---	
	09/09/93 ^{dup}	39.24	210	---	16	3.9	14	9.1	---	
	12/13/93	40.64	1,300 ^c	---	82	34	73	15	---	
	12/13/93 ^{dup}	40.64	1,400 ^c	---	110	45	72	19	---	
	03/03/94	38.98	9,600	---	1,200	600	390	710	---	
	03/03/94 ^{dup}	38.98	10,000	---	930	500	330	590	---	
	07/27/94	40.40	190	---	<0.5	1.0	<0.5	<0.5	---	
	08/09/94	40.71	1,500	---	53.5	12.4	46.2	44.0	---	
	10/05/94	41.89	<485	---	<0.3	<0.3	<0.3	<0.6	---	
	01/04/95	39.81	1,300	---	150	35	23	51	---	
	04/14/95	30.83	5,000	---	1,000	340	400	810	---	
	07/12/95	34.50	4,500	---	440	170	170	290	---	
	07/12/95 ^{dup}	34.50	4,300	---	430	160	160	280	---	
	12/14/95	39.22	37,000	---	1,800	7,600	1,000	6,700	---	
	12/14/95 ^{dup}	39.22	34,000	---	1,800	6,600	1,000	6,500	---	
	01/10/96	38.22	69,000	---	1,000	3,200	510	3,300	---	
	01/10/96 ^{dup}	38.22	78,000	---	1,100	3,500	560	3,600	---	
	04/25/96	31.78	11,000	---	820	880	210	1,400	---	
	04/25/96 ^{dup}	31.78	9,300	---	690	710	160	1,200	---	
	07/09/96	34.35	100,000	---	15,000	24,000	1,700	9,900	70,000	

Table 2A. Analytic Results for Ground Water - Fuel Compounds - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	B	T				E	X	MTBE
						parts per billion (µg/L)						
	07/09/96 ^{dmp}	34.35	86,000	---	12,000	19,000	1,400	7,500	32,000			
	10/02/96	37.56	82,000	---	20,000	32,000	1,800	9,100	40,000			
	10/02/96 ^{dmp}	37.56	89,000	---	19,000	31,000	1,700	8,900	42,000			
	01/09/97	32.07	17,000	---	710	2,300	350	2,200	4,000			
	01/09/97 ^{dmp}	32.07	12,000	---	490	1,300	260	1,800	2,800			
	04/09/97	32.78	20,000	---	970	3,500	330	2,000	3,200			
	07/02/97	36.56	28,000	---	1,700	8,700	550	3,000	5,500			
	07/02/97 ^{dmp}	36.56	32,000	---	2,000	11,000	680	3,800	6,400			
MW-3	03/01/92	42.00	<50	<50	<0.5	<0.5	<0.5	<0.5	---			
	06/03/92	44.30	<50	---	<0.5	<0.5	<0.5	<0.5	---			
	09/01/92	43.62	<50	---	<0.5	<0.5	1.1	3.2	---			
	12/07/92	44.77	52	---	<0.5	<0.5	<0.5	0.5	---			
	03/01/93	35.50	<50	---	<0.5	<0.5	<0.5	<0.5	---			
	06/22/93	37.30	<50	---	<0.5	<0.5	<0.5	<0.5	---			
	09/09/93	39.90	50 ^c	---	5.0	<0.5	<0.5	<0.5	---			
	12/13/93	41.30	120 ^d	---	7.5	<0.5	1.6	6.3	---			
	03/03/94	38.32	<50	---	0.81	<0.5	<0.5	<0.5	---			
	07/27/94	41.07	<50	---	3.5	<0.5	<0.5	<0.5	---			
	10/05/94 ^c	42.55	<57	---	<0.3	<0.3	<0.3	<0.6	---			
	01/04/95	40.54	<50	---	6.0	<0.5	<0.5	<0.5	---			
	04/14/95	31.50	<50	---	<0.5	<0.5	<0.5	<0.5	---			
	07/12/95	35.14	90	---	16	<0.5	<0.5	<0.5	---			
	12/14/95	39.86	4,600	---	460	390	34	1,000	---			
	01/10/96	39.98	11,000	---	470	460	68	670	---			
	04/25/96	32.38	5,500	---	830	910	<50	460	---			
	07/09/96	34.93	72,000	---	7,600	14,000	970	5,900	59,000			
	10/02/96	38.20	77,000	---	15,000	24,000	2,000	9,600	94,000 (71,000)			
	01/09/97	32.81	130	---	15	16	2.0	9.7	80			

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Table 2A. Analytic Results for Ground Water - Fuel Compounds - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	B	parts per billion (µg/L)			
						T	E	X	MTBE
	04/09/97	33.42	24,000	---	2,900	5,300	420	2,200	4,100
	04/09/97 ^{dup}	33.42	24,000	---	3,000	5,600	450	2,300	4,700
	07/02/97	37.22	68,000	---	7,400	18,000	1,600	8,700	16,000
MW-4	07/27/94	41.78	120	---	3.4	3.9	0.6	4.9	---
	10/05/94 ^c	43.25	<50	---	<0.3	<0.3	<0.3	<0.6	---
	10/05/94 ^{dup}	43.25	<50	---	<0.3	<0.3	<0.3	<0.6	---
	01/04/95	41.57	<50	---	1.4	<0.5	<0.5	<0.5	---
	04/14/95	32.24	<50	---	<0.5	<0.5	<0.5	<0.5	---
	07/12/95	35.88	<50	---	<0.5	<0.5	<0.5	<0.5	---
	12/14/95	40.54	70	---	0.6	<0.5	<0.5	<0.5	---
	01/10/96	39.59	280	---	3.7	1.0	<0.5	0.8	---
	04/25/96	33.22	<500	---	63	<5.0	<5.0	<5.0	---
	07/09/96	35.70	<2000	---	160	<20	<20	<20	5,300
	10/02/96	38.95	<5,000	---	480	<50	<50	<50	19,000
	01/09/97	33.04	<2,000	---	43	<20	<20	<20	7,000
	04/09/97	34.15	<2,500	---	120	<25	<25	<25	8,100
	07/02/97	37.92	<2,000	---	81	<20	<20	<20	6,600
Bailer	09/01/92		<50	---	<0.5	<0.5	<0.5	1	---
Blank	12/07/92		<50	---	<0.5	<0.5	<0.5	<0.5	---
	01/04/95		<50	---	<0.5	<0.5	<0.5	<0.5	---
	07/12/95		<50	---	0.6	0.7	<0.5	<0.5	---
	12/14/95		<50	---	<0.5	<0.5	<0.5	<0.5	---
Trip	09/17/91		<50	---	<0.5	<0.5	<0.5	<0.5	---
Blank	03/01/92		<50	---	<0.5	<0.5	<0.5	<0.5	---
	06/03/92		<50	---	<0.5	<0.5	<0.5	<0.5	---
	09/01/92		<50	---	<0.5	<0.5	<0.5	<0.5	---

Table 2A. Analytic Results for Ground Water - Fuel Compounds - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	B	parts per billion (µg/L)			
						T	E	X	MTBE
	12/07/92		<50	--	<0.5	<0.5	<0.5	<0.5	--
	03/01/93		<50	--	<0.5	<0.5	<0.5	<0.5	--
	06/22/93		<50	--	<0.5	<0.5	<0.5	<0.5	--
	09/09/93		<50	--	<0.5	<0.5	<0.5	<0.5	--
	12/13/93		<50	--	<0.5	<0.5	<0.5	<0.5	--
	03/03/94		<50	--	<0.5	<0.5	<0.5	<0.5	--
	07/27/94		<50	--	<0.5	<0.5	<0.5	<0.5	--
	08/09/94		<500	--	<0.3	<0.3	<0.3	<0.6	--
	10/05/94		<50	--	<0.3	<0.3	<0.3	<0.6	--
	01/04/95		<50	--	<0.5	<0.5	<0.5	<0.5	--
	04/14/95		<50	--	<0.5	<0.5	<0.5	<0.5	--
	07/12/95		<50	--	<0.5	<0.5	<0.5	<0.5	--
	12/14/95		<50	--	<0.5	<0.5	<0.5	<0.5	--
MCLs			NE	NE	1	150	700	1,750	NE

Table 2A. Analytic Results for Ground Water - Fuel Compounds - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California (continued)

Abbreviations:

TPH-G = Total petroleum hydrocarbons as gasoline by Modified EPA Method 8015
 TPH-D = Total petroleum hydrocarbons as diesel by Modified EPA Method 8015
 MTBE = Methyl tert-butyl ether by EPA Method 8020. Result in parentheses indicates MTBE by EPA Method 8260
 B = Benzene by EPA Method 8020
 E = Ethylbenzene by EPA Method 8020
 T = Toluene by EPA Method 8020
 X = Xylenes by EPA Method 8020
 dup = Duplicate sample
 NE = Not established
 MCLs = California Primary maximum contaminant levels for drinking water (22 CCR 64444)
 --- = Not analyzed
 <n = Below detection limits of n µg/L
 µg/L = Micrograms per liter

Notes:

a = Result due to a non-gasoline hydrocarbon compound
 b = Result due to a non-diesel hydrocarbon compound
 c = The concentrations reported as gasoline are primarily due to the presence of a combination of gasoline and a discrete peak not indicative of gasoline.
 d = The concentrations reported as gasoline are primarily due to the presence of a discrete peak not indicative of gasoline

CAMBRIA

Table 2B. Analytic Results for Ground Water - Non-Fuel Compounds - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

Well ID	Date Sampled	Depth to Water	TCE	TOG	PCE	Chloroform	cis-1,2-DCE	trans-1,2-DCE
			←————— parts per billion (µg/L) —————→					
MW-1	03/08/90	42.65	---	<10,000	35	6.3	---	---
	06/12/90	43.14	---	<10,000	1.9	63	---	---
	09/13/90	44.71	---	<10,000	26	9	---	---
	12/18/90	45.23	---	<10,000	<0.4	5.3	---	---
	03/07/91	43.32	---	---	23	3.7	---	---
	06/07/91	42.18	---	---	21	6.6	---	---
	09/17/91	44.85	---	---	23	7.4	---	---
	03/01/92	41.56	<0.4	---	21	6.3	---	<0.4
	06/03/92	40.74	17	---	<0.5	6.7	<0.5	<0.5
	09/01/92	43.05	12	---	<0.5	5.8	<0.5	<0.5
	12/07/92	44.19	<0.5	---	17	9	<0.5	<0.5
	03/01/93	34.96	<0.5	---	22	13	<0.5	<0.5
	03/01/93 ^{dnp}	34.96	<0.5	---	22	13	<0.5	<0.5
	06/23/93	36.75	<0.5	---	18	8	<0.5	<0.5
	09/09/93	39.36	<0.5	---	17	6.5	<0.5	<0.5
	12/13/93	40.74	---	---	---	---	---	---
	04/14/95	31.02	---	---	---	---	---	---
MW-2	03/01/92	41.57	<0.4	---	11	8.9	---	<0.4
	06/03/92	40.56	7.4	---	<0.5	<0.5	0.76	6.3
	09/01/92	42.94	8.4	---	<0.5	9.1	<0.5	<0.5
	09/01/92 ^{dnp}	42.94	8.4	---	<0.5	8.1	<0.5	<0.5
	12/07/92	44.13	<0.5	---	10	10	<0.5	<0.5
	12/07/92 ^{dnp}	44.13	<0.5	---	10	9	<0.5	<0.5
	03/01/93	34.82	<0.5	---	<0.5	<0.5	<0.5	<0.5
	06/22/93	36.64	<0.5	---	13	7.9	<0.5	<0.5
	06/22/93 ^{dnp}	36.64	<0.5	---	12	6.9	<0.5	<0.5

CAMBRIA

Table 2B. Analytic Results for Ground Water – Non-Fuel Compounds - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California (continued)

Well ID	Date Sampled	Depth to Water	TCE	TOG	PCE	Chloroform	cis-1,2-DCE	trans-1,2-DCE
			←————— parts per billion (µg/L) —————→					
	09/09/93	39.24	<0.5	---	11	5.9	1.9	<0.5
	09/09/93	39.24	<0.5	---	12	7.3	1.1	<0.5
	12/13/93	40.64	---	---	---	---	---	---
	07/27/94	40.40	<0.4	---	<0.4	7.5	---	<0.4
	08/09/94	40.71	<0.1	---	10.1	5.8	<0.1	<0.3
	10/05/94 ^a	41.89	<5	---	9	5	<5	<5
	01/04/95	39.81	<0.4	---	12	3.8	---	<0.4
	04/14/95	30.83	<0.4	---	8.4	2.3	<0.4	---
MW-3	03/01/92	42.00	<0.4	---	8.8	2.4	---	<0.4
	06/03/92	44.30	3	---	<0.5	1.5	<0.5	<0.5
	09/01/92	43.62	8.8	---	<0.5	2.3	<0.5	<0.5
	12/07/92	44.77	<0.5	---	10	3	<0.5	<0.5
	03/01/93	35.50	<0.5	---	9.2	9.4	<0.5	<0.5
	06/22/93	37.30	<0.5	---	7.8	9.6	<0.5	<0.5
	09/09/93	39.90	<0.5	---	7.9	7.3	<0.5	<0.5
	12/13/93	41.30	---	---	---	---	---	---
Bailer	09/01/92		<0.5	---	<0.5	<0.5	<0.5	<0.5
Blank	12/07/92		<0.5	---	<0.5	<0.5	<0.5	<0.5
Trip	09/01/92		<0.5	---	<0.5	<0.5	<0.5	<0.5
Blank	12/07/92 ^b		<0.5	---	<0.5	<0.5	<0.5	<0.5
	03/01/93		<0.5	---	<0.5	<0.5	<0.5	<0.5
	06/22/93 ^c		<0.5	---	<0.5	<0.5	<0.5	<0.5
MCLs			5.0	NE	5.0	100	6.0	10.0

Table 2B. Analytic Results for Ground Water – Non-Fuel Compounds - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California (continued)

Abbreviations:

TCE	=	Trichloroethene by EPA Method 601
TOG	=	Total non-polar oil and grease by American Public Health Association Standard Methods 503A&E
PCE	=	Tetrachloroethene by EPA Method 601
Chloroform	=	Chloroform by EPA Method 601
<i>cis</i> -1,2-DCE	=	<i>cis</i> -1,2-Dichloroethene by EPA Method 601
<i>trans</i> -1,2-DCE	=	<i>trans</i> -1,2-Dichloroethene by EPA Method 601
--	=	Not analyzed
dup	=	Duplicate sample
MCLs	=	California Primary Maximum Contaminant Levels for drinking water (22 CCR 64444)
NE	=	MCL not established
µg/L	=	micrograms per liter

Notes:

- a = Results this date represent 3rd month of 3rd quarter 1994
- b = Sample contained 0.014 mg/L of 1,3-Dichlorobenzene
- c = Although 1.4 ppb methylene chloride was detected in one of the ground water samples from well MW-2, the laboratory indicated that this was within normal laboratory background concentrations.

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



July 24, 1997

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

Attn: Alex Perez

Shell WIC #204-6852-0703
1285 Bancroft Avenue
San Leandro, California

3rd Quarter 1997

Quarterly Groundwater Monitoring Report 970702-F-3

Blaine Tech Services, Inc. performs environmental sampling and documentation as an independent third party. Copies of our Sampling Report along with the laboratory's Certified Analytical Report are forwarded to the consultant overseeing work at this site. Submission of the assembled documents to interested regulatory agencies will be made by the designated consultant.

Groundwater monitoring at this site was performed in accordance with Standard Operating Procedures provided to the interested regulatory agencies. If you have any questions about the work performed at this site please call me at (408) 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	07/02/97	TOC	--	NONE	--	--	36.65	59.16
MW-2*	07/02/97	TOC	--	NONE	--	--	36.56	58.97
MW-3	07/02/97	TOC	ODOR	NONE	--	--	37.22	57.84
MW-4	07/02/97	TOC	--	NONE	--	--	37.92	54.68

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



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: ~~970702~~ 970702-F3

Date: 7/2/97

Page 1 of 1

Site Address: 1285 Bancroft Ave., San Leandro, CA

WIC#: 204-6852-0703

Shell Engineer: Alex Perez
 Phone No.: (510) 675-6168
 Fax #: 675-6172

Consultant Name & Address: Blaine Tech Services, Inc.
 1680 Rogers Ave., San Jose, CA 95112

Consultant Contact: Fran Thie
 Phone No.: (408) 573-0555
 Fax #: 573-7771

Comments:

Sampled by: TG

Printed Name: Tim GRAF

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	MTBE	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"/>	4461	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.	MATERIAL DESCRIPTION		SAMPLE CONDITION/ COMMENTS
							TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	
MW-1	7/2			W		3	X	X	
MW-2						3	X	X	
MW-3						3	X	X	
MW-4						3	X	X	
EB						3	X	X	
DUP	7/2			W		3	X	X	

Relinquished By (signature): <i>Tim Graf</i>	Printed Name: Tim GRAF	Date: 7/3/97	Received (signature): <i>Steve Right</i>	Printed Name: Steve Right	Date: 7/3/97
Relinquished By (signature): <i>Steve Right</i>	Printed Name: Steve Right	Date: 7/3/97	Received (signature): <i>Mara Grislis</i>	Printed Name: Mara Grislis	Date: 7/3/97
Relinquished By (signature): _____	Printed Name: _____	Date: _____	Received (signature): _____	Printed Name: _____	Date: _____

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



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 Thle

Project: Shell San Leandro/970702-F3

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

<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
9707289 -01	LIQUID, MW-1	07/02/97	TPGBMW Purgeable TPH/BTEX
9707289 -02	LIQUID, MW-2	07/02/97	TPGBMW Purgeable TPH/BTEX
9707289 -03	LIQUID, MW-3	07/02/97	TPGBMW Purgeable TPH/BTEX
9707289 -04	LIQUID, MW-4	07/02/97	TPGBMW Purgeable TPH/BTEX
9707289 -05	LIQUID, EB	07/02/97	TPGBMW Purgeable TPH/BTEX
9707289 -06	LIQUID, DUP	07/02/97	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



Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell San Leandro/970702-F3 Sample Descript: MW-1 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9707289-01	Sampled: 07/02/97 Received: 07/03/97 Analyzed: 07/15/97 Reported: 07/16/97
--	--	---

QC Batch Number: GC071597BTEX02A
Instrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	250	N.D.
Methyl t-Butyl Ether	12	1300
Benzene	2.5	60
Toluene	2.5	7.6
Ethyl Benzene	2.5	4.2
Xylenes (Total)	2.5	18
Chromatogram Pattern:		

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	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 San Leandro/970702-F3 Sample Descript: MW-2 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9707289-02	Sampled: 07/02/97 Received: 07/03/97 Analyzed: 07/15/97 Reported: 07/16/97
--	--	---

QC Batch Number: GC071597BTEX02A
 Instrument ID: GCHP02

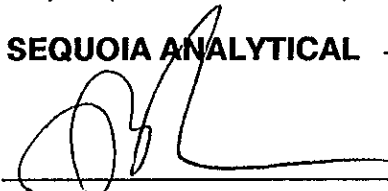
Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	10000	28000
Methyl t-Butyl Ether	500	5500
Benzene	100	1700
Toluene	100	8700
Ethyl Benzene	100	550
Xylenes (Total)	100	3000
Chromatogram Pattern:		C6-C12

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	100

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 San Leandro/970702-F3 Sample Descript: MW-3 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9707289-03	Sampled: 07/02/97 Received: 07/03/97 Analyzed: 07/15/97 Reported: 07/16/97
--	--	---

QC Batch Number: GC071597BTEX02A
Instrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	20000	68000
Methyl t-Butyl Ether	1000	16000
Benzene	200	7400
Toluene	200	18000
Ethyl Benzene	200	1600
Xylenes (Total)	200	8700
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	84

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 San Leandro/970702-F3
 Sample Descript: MW-4
 Matrix: LIQUID
 Analysis Method: 8015Mod/8020
 Lab Number: 9707289-04

Sampled: 07/02/97
 Received: 07/03/97
 Analyzed: 07/15/97
 Reported: 07/16/97

QC Batch Number: GC071597BTEX02A
 Instrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	2000	N.D.
Methyl t-Butyl Ether	100	6600
Benzene	20	81
Toluene	20	N.D.
Ethyl Benzene	20	N.D.
Xylenes (Total)	20	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	87

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 San Leandro/970702-F3 Sample Descript: EB Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9707289-05	Sampled: 07/02/97 Received: 07/03/97 Analyzed: 07/14/97 Reported: 07/16/97
--	--	---

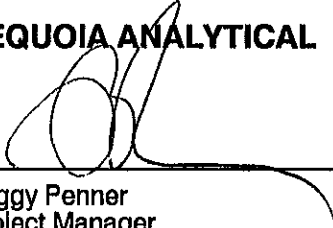
QC Batch Number: GC071497BTEX21A
Instrument ID: GCHP21

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	97

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 San Leandro/970702-F3
Sample Descript: DUP
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9707289-06

Sampled: 07/02/97
Received: 07/03/97
Analyzed: 07/15/97
Reported: 07/16/97

QC Batch Number: GC071597BTEX02A
Instrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	10000	32000
Methyl t-Butyl Ether	500	6400
Benzene	100	2000
Toluene	100	11000
Ethyl Benzene	100	680
Xylenes (Total)	100	3800
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	95

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

Client Project ID: Shell San Leandro / 970702-F3
Matrix: Liquid

Work Order #: 9707289 -01-04, 06

Reported: Jul 22, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC071597BTEX02A	GC071597BTEX02A	GC071597BTEX02A	GC071597BTEX02A	GC071597BTEX02A
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. Miraftab	A. Miraftab	A. Miraftab	A. Miraftab	A. Miraftab
MS/MSD #:	970739202	970739202	970739202	970739202	970739202
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/15/97	7/15/97	7/15/97	7/15/97	7/15/97
Analyzed Date:	7/15/97	7/15/97	7/15/97	7/15/97	7/15/97
Instrument I.D.#:	GCHP2	GCHP2	GCHP2	GCHP2	GCHP2
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	9.5	9.0	9.2	28	63
MS % Recovery:	95	90	92	93	105
Dup. Result:	9.7	9.2	9.4	28	59
MSD % Recov.:	97	92	94	93	98
RPD:	2.1	2.2	2.2	0.0	6.6
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	BLK071597	BLK071597	BLK071597	BLK071597	BLK071597
Prepared Date:	7/15/97	7/15/97	7/15/97	7/15/97	7/15/97
Analyzed Date:	7/15/97	7/15/97	7/15/97	7/15/97	7/15/97
Instrument I.D.#:	GCHP2	GCHP2	GCHP2	GCHP2	GCHP2
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	8.5	8.1	8.2	25	56
LCS % Recov.:	85	81	82	83	93

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

9707289.BLA <1>

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager





Blaine Tech Services, Inc. Client Project ID: Shell San Leandro / 970702-F3
 1680 Rogers Avenue Matrix: Liquid
 San Jose, CA 95112 Work Order #: 9707289-05 Reported: Jul 22, 1997
 Attention: Fran Thie

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC071497BTEX21A	GC071497BTEX21A	GC071497BTEX21A	GC071497BTEX21A	GC071497BTEX21A
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:	D. Jirsa	D. Jirsa	D. Jirsa	D. Jirsa	D. Jirsa
MS/MSD #:	970705707	970705707	970705707	970705707	970705707
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/14/97	7/14/97	7/14/97	7/14/97	7/14/97
Analyzed Date:	7/14/97	7/14/97	7/14/97	7/14/97	7/14/97
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	8.6	8.5	8.6	26	58
MS % Recovery:	86	85	86	87	97
Dup. Result:	8.3	8.2	8.2	24	56
MSD % Recov.:	83	82	82	80	93
RPD:	3.6	3.6	4.8	8.0	3.5
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	BLK071497	BLK071497	BLK071497	BLK071497	BLK071497
Prepared Date:	7/14/97	7/14/97	7/14/97	7/14/97	7/14/97
Analyzed Date:	7/14/97	7/14/97	7/14/97	7/14/97	7/14/97
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	8.8	8.6	8.7	26	58
LCS % Recov.:	88	86	87	87	97

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



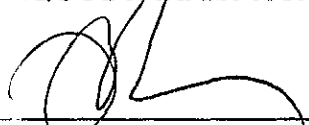


Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Proj. ID: Shell San Leandro/970702-F3 Lab Proj. ID: 9707289	Received: 07/03/97 Reported: 07/16/97
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LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 10 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL



Peggy Penner
Project Manager

