



November 4, 1997

Ms. Susan Hugo
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Second Floor
Alameda, California 94502-6577

Re: **Third Quarter 1997 Monitoring Report**
Shell Service Station
999 San Pablo Avenue
Albany, California
WIC #204-0079-0109
Cambria Project #24-314-397

Dear Ms. Hugo:

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

Ground Water Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California measured ground water depths and collected water samples from selected 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).

Underground Storage Tank Replacement: Cambria submitted a report describing underground storage tank replacement and soil sampling activities at the site.

ANTICIPATED FOURTH QUARTER 1997 ACTIVITIES

Ground Water Monitoring: Blaine will measure water levels and collect ground water samples from selected site wells. Cambria will tabulate the data and present a quarterly monitoring report.

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

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ENVIRONMENTAL
PROTECTION
DIVISION

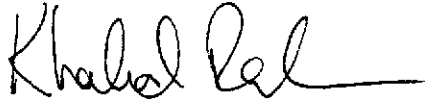
Ms. Susan Hugo
November 4, 1997

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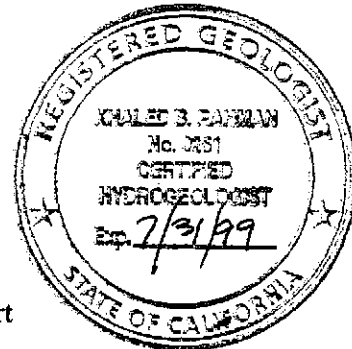
Closing

We appreciate your continued assistance with this project. Please call if you have any questions.

Sincerely,
Cambria Environmental Technology, Inc.



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



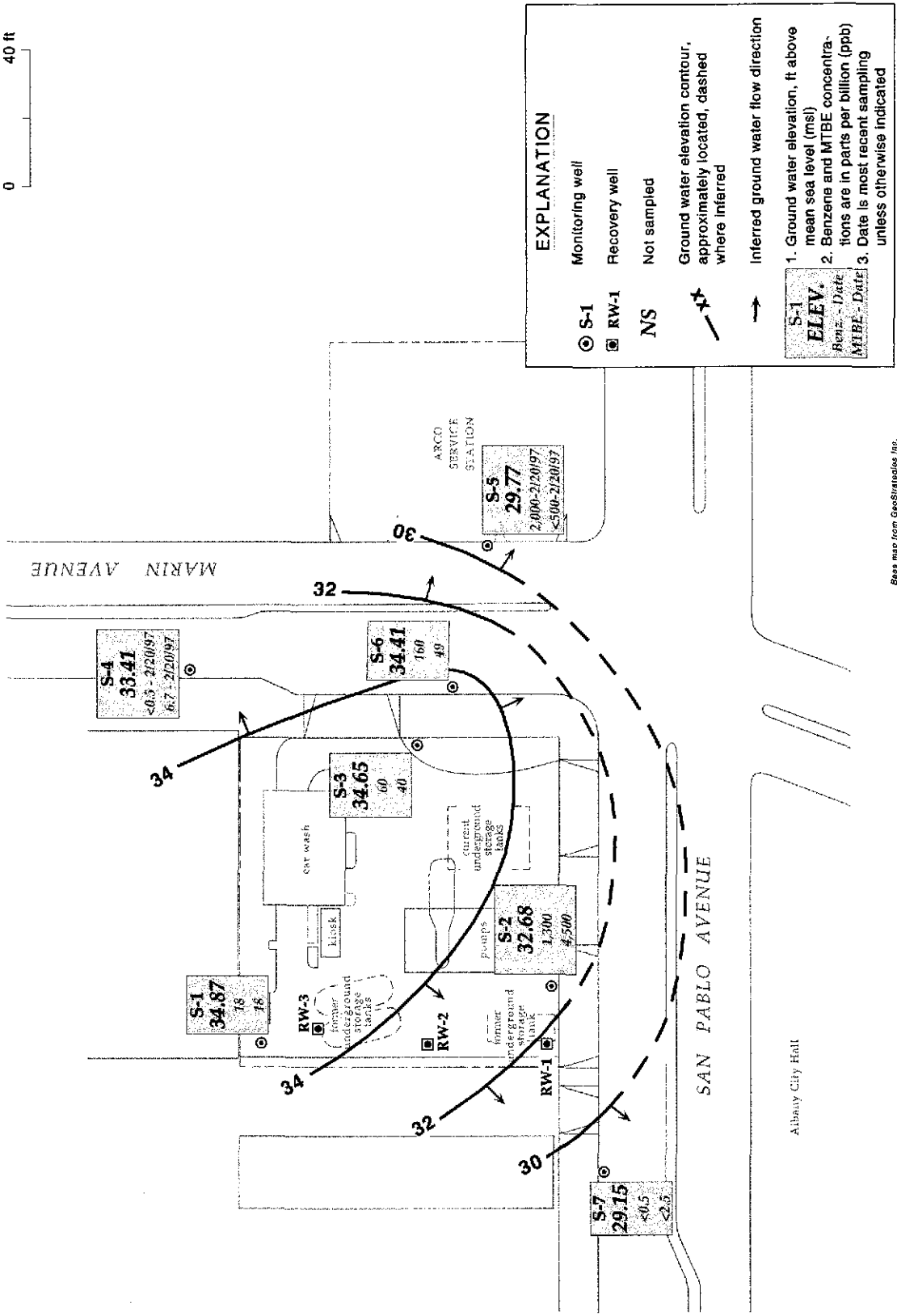
Attachments: A - Blaine Quarterly Ground Water Monitoring Report

cc: A. E. (Alex) Perez, Shell Oil Products Company, P.O. Box 8080, Martinez, California 94553

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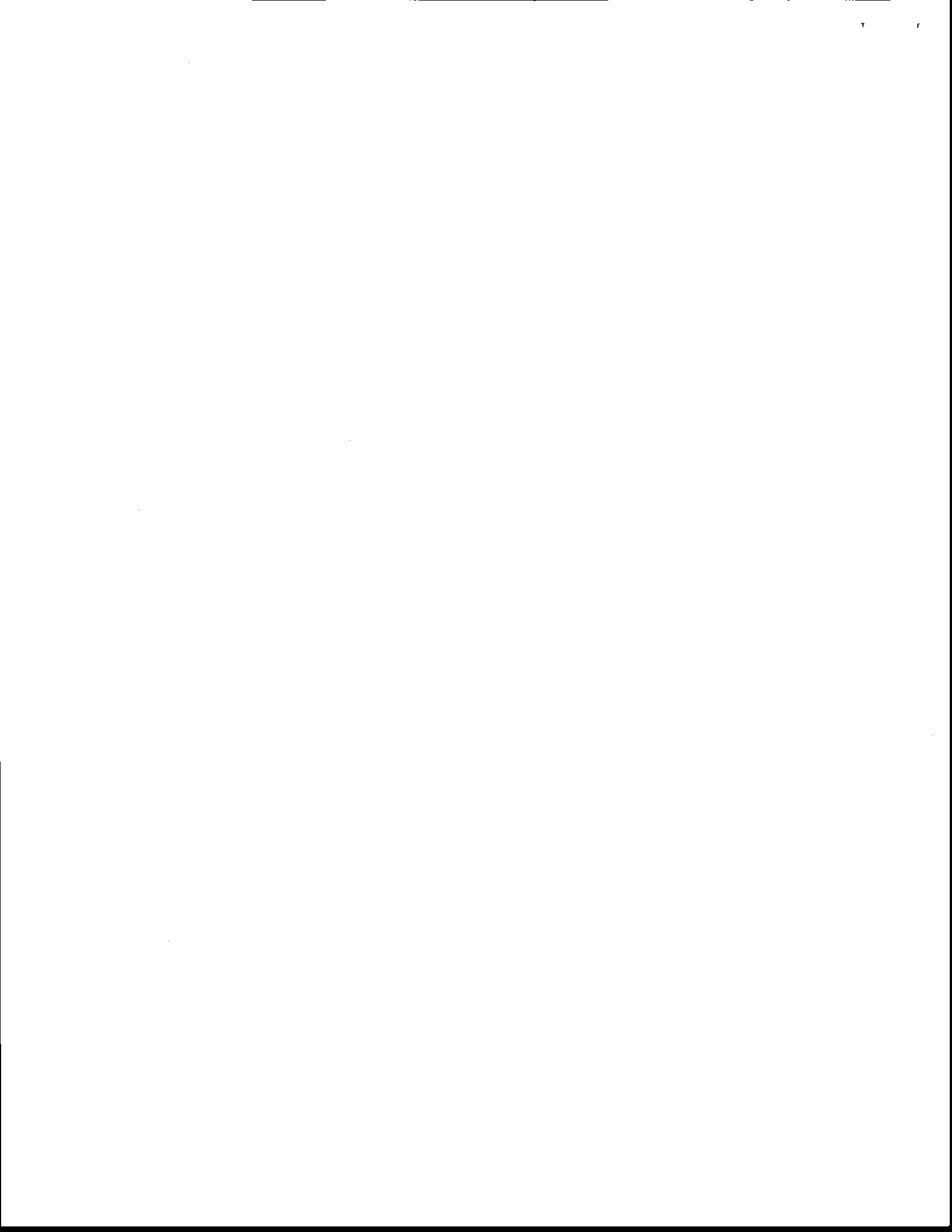
EXPLANATION

- ⊙ S-1 Monitoring well
- ⊠ RW-1 Recovery well
- NS Not sampled
- Ground water elevation contour, approximately located, dashed where inferred
- Inferred ground water flow direction

S-1	ELEV.	Benz.	Date	MTBE	Date	
	33.41	<0.5	2/20/97			
	34.87	18	6/7		2/20/97	
	34.41	160			2/20/97	
	34.65	60			40	
	32.68	1,300			4,500	
	29.75	<0.5			<2.5	
	29.77	2,000	2/20/97		500	2/20/97

Base map from GeoStrategies Inc.

Figure 1. Ground Water Elevation Contours - August 22, 1997 - Shell Service Station WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California



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Table 1. Ground Water Elevations - Shell Service Station WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California

Well ID	Date	Top-of-Vault Elevation (ft above msl)	Depth to Water (ft below TOV)	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation ^a (ft above msl)
S-1	05/13/91	42.73	8.24	---	34.49
	08/23/91		8.37	---	34.36
	11/07/91		8.30	---	34.43
	01/28/92		7.84	---	34.89
	05/06/92		7.95	---	34.78
	08/26/92		8.24	---	34.49
	10/28/92		8.52	---	34.21
	01/19/93		6.54	---	36.19
	04/29/93		7.93	---	34.80
	07/22/93		8.09	---	34.64
	10/21/93		9.43	---	33.30
	01/04/94		8.25	---	34.48
	04/13/94		8.02	---	34.71
	07/25/94		8.22	---	34.51
	10/10/94		8.29	---	34.44
	01/26/95		6.88	---	35.85
	04/21/95		7.65	---	35.08
	07/28/95		7.90	---	34.83
	10/31/95		7.72	---	35.01
	01/10/96		8.24	---	34.49
	04/25/96		7.74	---	34.99
	07/23/96		7.92	---	34.81
	12/10/96		7.56	---	35.17
02/20/97	7.95	---	34.78		
05/22/97	8.11	---	34.62		
08/22/97	7.86	---	34.87		
S-2	05/13/91	40.73	8.50	---	32.23
	08/23/91		8.80	---	31.93
	11/07/91		8.61	---	32.12
	01/28/92		7.80	---	32.93
	05/06/92		8.10	---	32.63
	08/26/92		8.37	---	32.36
	10/28/92		8.64	---	32.09
	01/19/93		5.82	---	34.91
	04/29/93		7.70	---	33.03
	07/22/93		8.38	---	32.35
	10/21/93		8.58	---	32.15
	01/04/94		7.70	---	33.03
	04/13/94		7.62	---	33.11
	07/25/94		7.86	---	32.87
	10/10/94		8.12	---	32.61
	01/26/95		6.38	---	34.35
04/21/95	7.01	---	33.72		

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Table 1. Ground Water Elevations - Shell Service Station WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California

Well ID	Date	Top-of-Vault Elevation (ft above msl)	Depth to Water (ft below TOV)	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation ^a (ft above msl)
	07/28/95		7.82	---	32.91
	10/31/95		7.57	---	33.16
	01/10/96		8.13	---	32.60
	04/25/96		7.72	---	33.01
	07/23/96		8.10	---	32.63
	12/10/96		8.57	---	32.16
	02/20/97		8.15	---	32.58
	05/22/97		8.79	---	31.94
	08/22/97		8.05	---	32.68
S-3	05/13/91	41.46	7.90	---	33.56
	08/23/91		8.14	---	33.32
	11/07/91		7.91	---	33.55
	01/28/92		7.53	---	33.93
	05/06/92		7.55	---	33.91
	08/26/92		7.53	---	33.93
	10/28/92		7.95	---	33.51
	01/19/93		6.12	---	35.34
	04/29/93		7.27	---	34.19
	07/22/93		7.62	---	33.84
	10/21/93		7.81	---	33.65
	01/04/94		7.49	---	33.97
	04/13/94		7.32	---	34.14
	07/25/94		7.66	---	33.80
	10/10/94		7.49	---	33.97
	01/26/95		6.50	---	34.96
	04/21/95		6.79	---	34.67
	07/28/95		7.28	---	34.18
	10/31/95		6.74	---	34.72
	01/10/96		7.48	---	33.98
	04/25/96		6.90	---	34.56
	07/23/96		7.04	---	34.42
	12/10/96		7.96	---	33.50
	02/20/97		7.44	---	34.02
	05/22/97		7.13	---	34.33
	08/22/97		6.81	---	34.65
S-4	05/13/91	41.10	7.44	---	33.66
	08/23/91		8.32	---	32.78
	11/07/91		8.32	---	32.78
	01/28/92		7.40	---	33.70
	05/06/92		7.21	---	33.89
	08/26/92		8.13	---	32.97
	10/28/92		8.73	---	32.37

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Table 1. Ground Water Elevations - Shell Service Station WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California

Well ID	Date	Top-of-Vault Elevation (ft above msl)	Depth to Water (ft below TOV)	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation ^a (ft above msl)
	01/19/93		5.86	---	35.24
	04/29/93		7.02	---	34.08
	07/22/93		7.76	---	33.34
	10/21/93		8.53	---	32.57
	01/04/94		7.92	---	33.18
	04/13/94		7.71	---	33.39
	07/25/94		7.82	---	33.28
	10/10/94		8.15	---	32.95
	01/26/95		5.73	---	35.37
	04/21/95		6.26	---	34.84
	07/28/95		7.80	---	33.30
	10/31/95		8.45	---	32.65
	01/10/96		8.26	---	32.84
	04/25/96		7.14	---	33.96
	07/23/96		8.18	---	32.92
	12/10/96		7.04	---	34.06
	02/20/97		7.07	---	34.03
	05/22/97		6.63	---	34.47
	08/22/97		7.69	---	33.41
S-5	05/13/91	39.99	14.60	6.48	30.57
	08/23/91		15.14	5.50	29.25
	11/07/91		15.10	5.35	29.17
	01/28/92		14.05	4.90	29.86
	05/06/92		14.31	5.66	30.21
	08/26/92		14.26	3.80	28.77
	10/28/92		14.22	3.81	28.82
	01/19/93		12.36	3.96	30.80
	04/29/93		9.64	0.90	31.07
	07/22/93		9.55	0.90	31.16
	10/21/93		11.23	0.73	29.34
	01/04/94		11.69	1.90	29.82
	04/13/94		11.42	1.62	29.87
	07/25/94		12.01	1.79	29.41
	10/10/94		12.05	1.8	29.38
	01/26/95		8.42	1.72	32.95
	04/21/95		10.03	1.17	30.90
	07/28/95		11.42	1.87	30.07
	10/31/95		13.21	0.54	27.21
	01/10/96		12.05	0.13	28.04
	04/25/96		9.68	0.03	30.33
	07/23/96		9.82	0.04	30.20
	12/10/96		9.10	0.03	30.91
	02/20/97		8.93	---	31.06

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Table 1. Ground Water Elevations - Shell Service Station WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California

Well ID	Date	Top-of-Vault Elevation (ft above msl)	Depth to Water (ft below TOV)	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation ^a (ft above msl)
	05/22/97		10.07	0.02	29.94
	08/22/97		10.24	0.02	29.77
S-6	05/13/91	40.12	7.82	---	32.30
	08/23/91		9.58	---	30.54
	11/07/91		10.86	---	29.26
	01/28/92		8.97	---	31.15
	05/06/92		8.27	---	31.85
	08/26/92		9.57	---	31.55
	10/28/92		8.90	---	32.22
	01/19/93		4.84	---	35.28
	04/29/93		5.61	---	34.51
	07/22/93		6.56	---	33.56
	10/21/93		8.73	---	31.39
	01/04/94		7.14	---	32.98
	04/13/94		7.21	---	32.91
	07/25/94		6.85	---	33.27
	10/10/94		6.20	---	33.92
	01/26/95		4.89	---	35.23
	04/21/95		5.61	---	34.51
	07/28/95		5.30	---	34.82
	10/31/95		4.98	---	35.14
	01/10/96		5.67	---	34.45
	04/25/96		5.23	---	34.89
	07/23/96		5.40	---	34.72
	12/10/96		6.68	---	33.44
	02/20/97		5.70	---	34.42
	05/22/97		5.49	---	34.63
	08/22/97		5.71	---	34.41
S-7	05/13/91	40.10	10.56	---	29.54
	08/23/91		11.16	---	28.94
	11/07/91		11.48	---	28.62
	01/28/92		10.72	---	29.38
	05/06/92		10.34	---	29.76
	08/26/92		11.13	---	28.97
	10/28/92		11.52	---	28.58
	01/19/93		8.68	---	31.42
	04/29/93		9.90	---	30.20
	07/22/93		---	---	---
	10/21/93		11.10	---	29.00
	01/04/94		10.40	---	29.70
	04/13/94		10.20	---	29.90
	07/25/94		10.48	---	29.62

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Table 1. Ground Water Elevations - Shell Service Station WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California

Well ID	Date	Top-of-Vault Elevation (ft above msl)	Depth to Water (ft below TOV)	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation ^a (ft above msl)
	10/10/94		10.64	---	29.46
	01/26/95		7.75	---	32.35
	04/21/95		8.51	---	31.59
	07/28/95		10.20	---	29.90
	10/31/95		10.86	---	29.24
	01/10/96		10.33	---	29.77
	04/25/96		9.13	---	30.97
	07/23/96		10.18	---	29.92
	12/10/96		9.04	---	31.06
	02/20/97		9.60	---	30.50
	05/22/97		10.63	---	29.47
	08/22/97		10.95	---	29.15

Notes and Abbreviations:

a = Ground water elevation = top of casing elevation - depth to water + (0.8 x hydrocarbon thickness)

msl = mean sea level

TOV = Top of vault

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Table 2. Analytic Results for Ground Water - Shell Service Station, WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California (continued)

Well ID & Sampling Frequency	Date	Depth to Water (ft)	TPH-G	B	T	E	X	MTBE	HDM Units units/L	DO (mg/L)
S-1 (Bi-annually, 1st & 3rd Qtrs)	05/13/91	8.24	1,500	20	2.6	86	74	---	---	---
	08/23/91	8.37	2,900	27	<2.5	75	18	---	---	---
	11/07/91	8.30	2,900	8	2.5	46	26	---	---	---
	01/28/92	7.84	2,000	11	<2.5	60	20	---	---	---
	05/06/92	7.95	1,200	5.5	<2.5	80	36	---	---	---
	07/29/92	8.24	2,000	9.4	<2.5	130	<2.5	---	---	---
	10/28/92	8.52	1,300	27	3.2	72	13	---	---	---
	01/19/93	6.54	1,500	13	3	29	31	---	---	---
	04/29/93	7.93	2,000	15	<2.5	82	<65	---	---	---
	07/22/93	8.09	620	1.1	4.2	3.5	13	---	---	---
	10/21/93	9.43	1,200	34	25	15	9.5	---	---	---
	01/04/94	8.25	860	<2.5	<2.5	5.7	5.3	---	---	---
	07/25/94	8.22	1,200	8.3	7.4	15	20	---	---	---
	01/26/95	6.88	1,000	12	0.6	12	420	---	---	---
	07/28/95	7.90	660	7.2	1.0	11	8.9	---	---	4.0
	01/10/96	8.24	1,100	3.5	7.0	5.1	9.4	---	---	7.4
	07/23/96	7.92	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	2.7
12/10/96	7.56	---	---	---	---	---	---	---	0.6	
02/20/97	7.95	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	3.0	
05/22/97	8.11	---	---	---	---	---	---	---	0.5	
08/22/97	7.86	810	18	<2.0	5.1	4.4	18	---	3.0	
S-2 (Bi-annually, 1st & 3rd Qtrs)	05/13/91	8.50	23,000	3,900	230	1,100	3,200	---	---	---
	08/23/91	8.80	23,000	4,400	260	1,900	2,400	---	---	---
	11/07/91	8.61	40,000	4,000	160	1,020	3,400	---	---	---
	01/28/92	7.80	22,000	1,600	70	420	1,700	---	---	---
	05/06/92	8.10	20,000	2,600	110	860	1,900	---	---	---
	07/29/92	8.37	42,000	5,000	160	1,100	3,500	---	---	---
	10/28/92	8.64	34,000	4,800	330	1,600	2,900	---	---	---
	01/19/93	5.82	20,000	2,300	370	660	1,300	---	---	---
04/29/93	7.70	40,000	2,000	67	900	1,900	---	---	---	

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Table 2. Analytic Results for Ground Water - Shell Service Station, WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California (continued)

Well ID & Sampling Frequency	Date	Depth to Water (ft)	TPH-G	B	T	parts per billion (µg/L)			HDM Units units/L	DO (mg/L)
						E	X	MTBE		
	07/22/93	8.38	22,000	3,000	120	1,000	1,600	---	---	---
	07/22/93 ^{dup}	8.38	17,000	3,000	110	1,000	1,500	---	---	---
	10/21/93	8.58	14,000	2,800	74	870	1,100	---	---	---
	10/21/93 ^{dup}	8.58	13,000	3,200	53	960	820	---	---	---
	01/04/94	7.70	21,000	2,100	67	990	770	---	---	---
	01/04/94 ^{dup}	7.70	22,000	2,000	64	910	750	---	---	---
	07/25/94	7.86	43,000	2,600	490	990	1,300	---	---	---
	01/26/95	6.38	21,000	790	12	290	570	10 ⁴ to 10 ⁵ ab	5.5	5.5
	07/28/95	7.82	14,000	2,400	360	960	370	---	---	4.0
	01/10/96	8.13	17,000	1,400	<50	480	170	---	---	7.2
	07/23/96	8.10	16,000	2,700	69	1,100	110	9,500	---	2.2
	07/23/96 ^{dup}	8.10	11,000	2,600	68	1,000	96	10,000 (11,000)	10 ⁵ r	2.2
	12/10/96	8.57	---	---	---	---	---	---	---	0.5
	02/20/97	8.15	10,000	500	<10	90	130	6,400	---	4.0
	05/22/97	8.79	---	---	---	---	---	---	---	1.1
	08/22/97	8.05	23,000	1,300	65	740	290	4,500	---	3.2
	08/22/97 ^{dup}	8.05	20,000	1,200	<100	630	250	3,900	---	3.2
S-3 (Bi-annually, 1st & 3rd Qtrs)	05/13/91	7.90	3,300	30	3.6	26	13	---	---	---
	08/23/91	8.14	2,000	25	4	9.3	4.5	---	---	---
	11/07/91	7.91	4,000	20	3.9	5	4.9	---	---	---
	01/28/92	7.53	2,100	21	7.6	6.7	15	---	---	---
	01/28/92 ^{dup}	7.53	2,100	18	6.1	7.1	14	---	---	---
	05/06/92	7.55	6,600	38	51	45	65	---	---	---
	07/29/92	7.53	5,800	18	12	29	60	---	---	---
	10/28/92	7.95	3,000	55	11	16	32	---	---	---
	01/19/93	6.12	3,100	<5	5.1	11	16	---	---	---
	04/29/93	7.27	3,000	31	22	<5	14	---	---	---
	07/22/93	7.62	2,600	3.1	43	23	53	---	---	---
	10/21/93	7.81	2,500	73	14	16	32	---	---	---
	01/04/94	7.49	4,800	13	21	<12.5	33	---	---	---

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Table 2. Analytic Results for Ground Water - Shell Service Station, WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California (continued)

Well ID & Sampling Frequency	Date	Depth to Water (ft)	TPH-G	B	T	E	X	MTBE	HDM Units units/L	DO (mg/L)
	07/25/94	7.66	2,600	6.1	4.0	3.8	12	--	--	--
	01/26/95	6.50	3,600	30	6.8	5.6	19	--	--	--
	01/26/95 ^{dup}	6.50	2,200	9.9	15	14	22	--	--	--
	07/28/95	7.28	3,700	27	9.3	20	34	--	--	4.0
	01/10/96	7.48	4,000	10	<0.5	13	28	--	--	6.1
	07/23/96	7.04	2,100	20	<0.5	<0.5	<0.5	<25	--	2.1
	12/10/96	7.56	--	--	--	--	--	--	--	0.7
	02/20/97	7.44	3,500	83	<5.0	18	16	130	--	3.0
	02/20/97 ^{dup}	7.44	3,000	69	<5.0	14	12	70	--	3.0
	05/22/97	7.13	--	--	--	--	--	--	--	0.6
	08/22/97	6.81	4,700	60	12	19	21	40	--	2.9
S-4 (Annually 1st Qtr)	05/13/91	7.44	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	08/23/91	8.32	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	11/07/91	8.32	260	<0.5	<0.5	<0.5	<0.5	--	--	--
	01/28/92	7.40	110 ^e	<0.5	<0.5	<0.5	<0.5	--	--	--
	05/06/92	7.21	54	<0.5	<0.5	<0.5	<0.5	--	--	--
	07/29/92	8.13	67	<0.5	<0.5	<0.5	<0.5	--	--	--
	10/28/92	8.73	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	01/19/93	5.86	86	1.2	0.7	2.7	15	--	--	--
	04/29/93	7.02	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	04/29/93 ^{dup}	7.02	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	07/22/93	7.76	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	10/21/93	8.53	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	01/04/94	7.92	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	01/26/95	5.73	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	07/28/95	7.80	--	--	--	--	--	--	--	--
	01/10/96	8.26	<50	1.0	2.8	<0.5	2.1	--	--	2.8
	07/23/96	8.18	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	3.8
	12/10/96	7.04	--	--	--	--	--	--	--	3.9
	02/20/97	7.07	<50	<0.50	<0.50	<0.50	<0.50	6.7	--	5.0

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Table 2. Analytic Results for Ground Water - Shell Service Station, WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California (continued)

Well ID & Sampling Frequency	Date	Depth to Water (ft)	TPH-G	B	T	E	X	MTBE	HDM Units units/L	DO (mg/L)
	05/22/97	6.63	---	---	---	---	---	---	---	0.8
	08/22/97	7.69	---	---	---	---	---	---	---	3.7
S-5 (Quarterly)	05/13/91 SPH	14.60	---	---	---	---	---	---	---	---
	08/23/91 SPH	15.14	---	---	---	---	---	---	---	---
	11/07/91 SPH	15.10	---	---	---	---	---	---	---	---
	01/28/92 SPH	14.05	---	---	---	---	---	---	---	---
	05/06/92 SPH	14.31	---	---	---	---	---	---	---	---
	07/29/92 SPH	14.26	---	---	---	---	---	---	---	---
	10/28/92 SPH	14.22	---	---	---	---	---	---	---	---
	01/19/93 SPH	12.36	---	---	---	---	---	---	---	---
	04/29/93 SPH	9.64	---	---	---	---	---	---	---	---
	07/22/93 SPH	9.55	---	---	---	---	---	---	---	---
	10/21/93 SPH	11.23	---	---	---	---	---	---	---	---
	01/04/94 SPH	11.69	---	---	---	---	---	---	---	---
	07/25/94 SPH	12.01	---	---	---	---	---	---	---	---
	10/10/94 SPH	12.05	---	---	---	---	---	---	---	---
	01/26/95 SPH	9.80	---	---	---	---	---	---	---	---
	04/21/95 SPH	10.03	---	---	---	---	---	---	---	---
	07/28/95 SPH	11.42	---	---	---	---	---	---	---	---
	10/31/95 SPH	12.05	---	---	---	---	---	---	---	---
	01/10/96 SPH	9.68	---	---	---	---	---	---	---	---
	04/25/96 SPH	9.82	---	---	---	---	---	---	---	---
	07/23/96	9.10	270,000	8,800	29,000	5,200	37,000	<2,500	---	---
	12/10/96 SPH	9.10	400,000	9,200	32,000	7,200	50,000	<2,500	---	---
	12/10/96 dup	9.10	---	---	---	---	---	---	---	---
	05/22/97 SPH	---	---	---	---	---	---	---	---	---
	02/20/97	8.93	88,000	2,000	11,000	1,600	19,000	<500	---	5.0
	08/22/97 SPH	10.24	---	---	---	---	---	---	---	---

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Table 2. Analytic Results for Ground Water - Shell Service Station, WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California (continued)

Well ID & Sampling Frequency	Date	Depth to Water (ft)	TPH-G	B	T	E	X	MTBE	HDM Units units/L	DO (mg/L)
S-6 (Bi-annually, 1st & 3rd Qtrs)	05/13/91	7.82	13,000	600	140	210	310	--	--	--
	08/23/91	9.58	9,800	480	80	120	150	--	--	--
	11/07/91	10.86	6,200	240	23	25	27	--	--	--
	01/28/92	8.97	5,600	250	15	41	36	--	--	--
	05/06/92	8.27	7,100	330	29	110	210	--	--	--
	07/29/92	9.57	13,000	240	<50	56	780	--	--	--
	10/28/92	8.90	10,000	470	210	67	170	--	--	--
	01/19/93	4.84	4,800	100	26	27	45	--	--	--
	04/29/93	5.61	7,000	430	20	<12.5	42	--	--	--
	07/22/93	6.56	5,800	260	120	65	150	--	--	--
	10/21/93	8.73	5,500	270	69	120	140	--	--	--
	01/04/94	7.14	7,100	180	58	63	62	--	--	--
	07/25/94	6.85	12,000	190	52	30	39	--	--	--
	07/25/94 ^{dnp}	6.85	7,200	170	32	31	34	--	--	--
	01/26/95	4.89	5,800	120	23	24	44	--	--	--
	07/28/95	5.30	4,400	210	23	34	60	--	--	3.0
	07/28/95 ^{dnp}	5.30	6,100	230	20	38	59	--	--	3.0
	01/10/96	5.67	6,800	170	87	35	105	--	--	2.2
	01/10/96 ^{dnp}	5.67	7,800	230	120	50	210	--	--	2.2
	07/23/96	5.40	2,600	170	<0.5	<0.5	8.5	--	<25	1.4
12/10/96	6.68	--	--	--	--	--	--	--	0.7	
02/20/97	5.70	6,300	160	7.7	14	31	--	77	2.0	
05/22/97	5.49	--	--	--	--	--	--	--	0.9	
	08/22/97	5.71	6,200	160	26	15	27	49	28	2.8
S-7 (Quarterly)	05/13/91	10.56	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	08/23/91	11.16	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	11/07/91	11.48	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	01/28/92	10.72	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	05/06/92	10.34	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	07/29/92	11.13	160	<0.5	<0.5	<0.5	<0.5	--	--	--

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Table 2. Analytic Results for Ground Water - Shell Service Station, WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California (continued)

Well ID & Sampling Frequency	Date	Depth to Water (ft)	TPH-G	B	T	parts per billion (µg/L)			HDM Units units/L	DO (mg/L)
						E	X	MTBE		
	10/28/92	11.52	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	01/19/93	8.68	50	1.1	0.6	1.9	9.2	---	---	---
	04/29/93	9.90	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	07/22/93 ^d	---	---	---	---	---	---	---	---	---
	10/21/93	11.10	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	01/04/94	10.40	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	04/13/94	10.20	<50	1.4	0.61	0.64	0.64	---	---	---
	04/13/94 ^{dup}	10.20	<50	1.4	0.61	0.66	0.66	---	---	---
	07/25/94	10.48	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	10/10/94 ^e	10.64	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	01/26/95	7.75	<50	<0.5	<0.5	<0.5	<0.5	---	10 ³ to 10 ⁵ ab	4.6
	04/21/95	8.51	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	07/28/95	10.20	<50	<0.5	<0.5	<0.5	<0.5	---	---	3.0
	10/31/95	10.86	<50	<0.5	<0.5	<0.5	<0.5	---	---	4.9
	01/10/96	10.33	<50	<0.5	2.0	<0.5	2.6	---	---	7.6
	04/25/96	9.13	<50	<0.5	<0.5	<0.5	<0.5	---	10 ⁰ to 10 ⁵ ab	6.2
	07/23/96	10.18	<50	<0.5	<0.5	<0.5	<0.5	<2.5	10 ⁰ f	3.7
	12/10/96	9.04	<50	<0.5	<0.5	<0.5	<0.5	14	---	4.6
	02/20/97	9.60	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	5.0
	05/22/97	10.63	<50	1.3	<0.50	<0.50	<0.50	5.5	---	0.8
	08/22/97	10.95	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	2.6
Trip Blank	01/28/92		<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	04/29/93		<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	07/22/93		<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	10/21/93		<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	01/04/94		<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	04/13/94		<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	07/25/94		<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	10/10/94		<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	01/26/95		<50	<0.5	0.7	<0.5	<0.5	---	---	---

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Table 2. Analytic Results for Ground Water - Shell Service Station, WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California (continued)

Well ID & Sampling Frequency	Date	Depth to Water (ft)	TPH-G	B	parts per billion (µg/L)			MTBE	HDM Units units/L	DO (mg/L)
					T	E	X			
	04/21/95		<50	<0.5	<0.5	<0.5	---	---	---	
	07/28/95		<50	<0.5	<0.5	<0.5	---	---	---	
	10/31/95		<50	<0.5	<0.5	<0.5	---	---	---	
MCLs			NE	1	150	700	1,750	NE	---	

Abbreviations:

TPH-G = Total petroleum hydrocarbons as gasoline by Modified EPA Method 8015
 B = Benzene by EPA Method 8020
 T = Toluene by EPA Method 8020
 E = Ethylbenzene by EPA Method 8020
 X = Xylenes by EPA Method 8020
 MTBE = Methyl tertiary butyl ether by Method 8020. Results in parentheses indicates MTBE by EPA Method 8260

NE = Not established

<n = Not detected at detection limits of n µg/L

HDM = Hydrocarbon Degrading Microbes

dup = Duplicate sample

SPH = Separate-phase hydrocarbons detected, no sample collected

DO = Dissolved Oxygen

µg/L = Micrograms per liter, equal to parts per billion

mg/L = Milligrams per liter, equal to parts per million

MCL = California primary maximum contaminant level (22 CCR 64444)

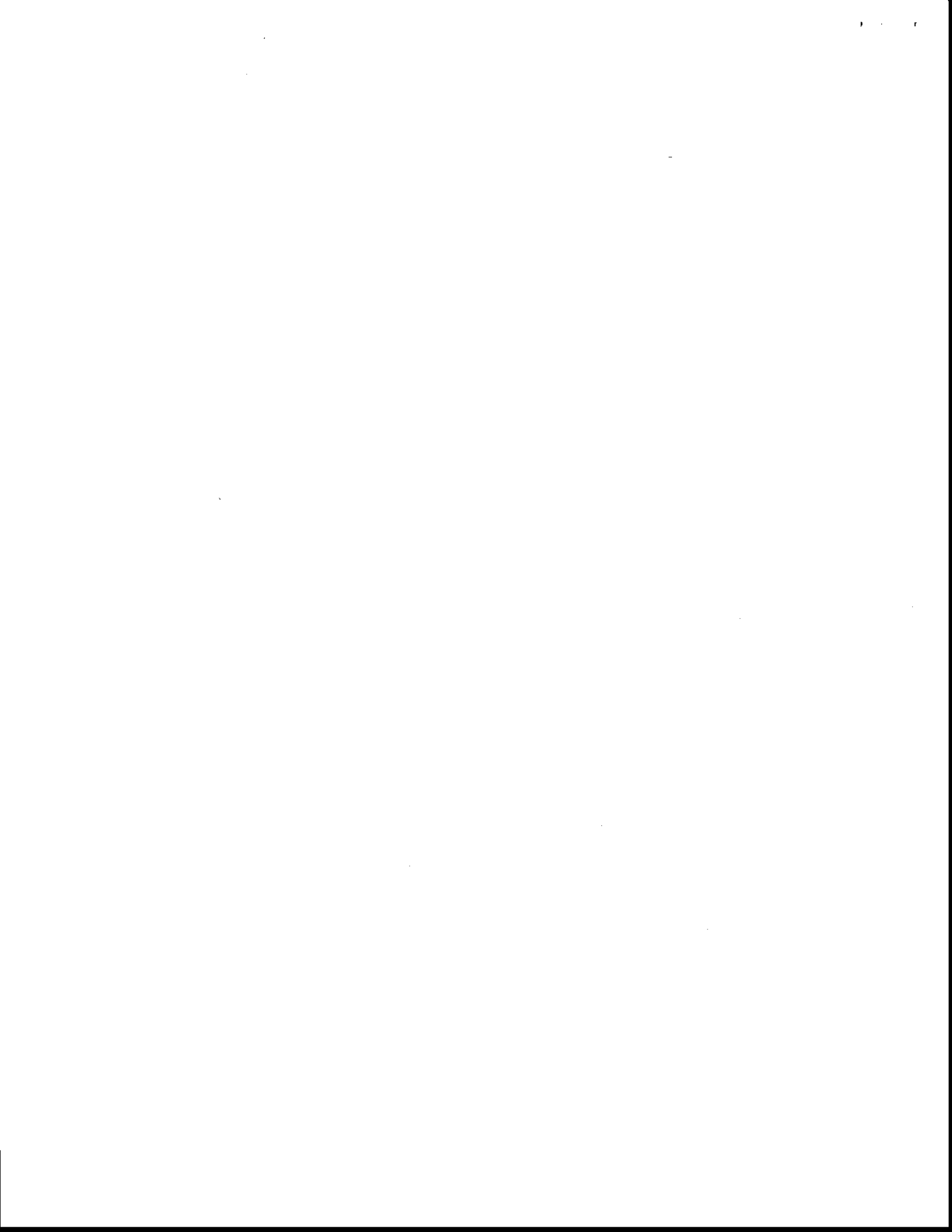
Notes:

- a = Simple method
- b = Estimated number
- c = Compounds detected and calculated as gasoline are not characteristic of the standard gasoline chromatographic pattern
- d = Well inaccessible
- e = Sample analyzed for Total Dissolved Solids (450 mg/L)
- f = Estimated BTEX degrading units per liter.

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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

September 10, 1997

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

Attn: Alex Perez

Shell WIC #204-0079-0109
999 San Pablo Avenue
Albany, California

3rd Quarter 1997

Groundwater Monitoring Report 970822-S-2

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

Groundwater monitoring at this site was performed in accordance with Standard Operating Procedures provided to the interested regulatory agencies. If you have any questions about the work performed at this site please call me at (408) 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 IMMISCIBLE LIQUID (FPZ) (feet)	THICKNESS OF IMMISCIBLE LIQUID ZONE (feet)	VOLUME OF IMMISCIBLES REMOVED (ml)	DEPTH TO WATER (feet)	DEPTH TO WELL BOTTOM (feet)
S-1	8/22/97	TOB	--	NONE	--	--	7.86	11.76
S-2*	8/22/97	TOB	--	NONE	--	--	8.05	12.03
S-3	8/22/97	TOB	--	NONE	--	--	6.81	12.11
S-4	8/22/97	TOB	--	NONE	--	--	7.69	14.15
S-5	8/22/97	TOB	FREE PRODUCT	10.22	0.02	--	10.24	--
S-6	8/22/97	TOB	ODOR	NONE	--	--	5.71	15.05
S-7	8/22/97	TOB	--	NONE	--	--	10.95	14.96

*Sample DUP was duplicate sample taken at well S-2.

ENVIRONMENTAL ENGINEERING - WEST

1680 Rogers Ave., San Jose, CA 95112

Phone No: (510)
675-6168
Fax #: 675-6172

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

Phone No: (408)
573-0555
Fax #: 573-7771

Consultant Contact: Fran Thie

Comments:

Sampled by: *[Signature]*

Printed Name: DOUG SANDERS

Sample ID	Date	Sludge	Soil	Water	Air	No. of conis.
1 S-1	8/24/97			X		3
2 S-2				X		3
3 S-3				X		3
4 S-6				X		3
5 S-7				X		3
6 DUP				X		3
7 EB				X		3

CHAIN OF CUSTODY RECORD

Serial No: 970822-52

Date: | of | Page

LAB: SEQUOIA

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
					X				
					X				
					X				
					X				
					X				
					X				
					X				

CHECK ONE (1) BOX ONLY	CT/DIT	TURN AROUND TIME
<input checked="" type="checkbox"/> G.W. Monitoring	4441	24 hours <input type="checkbox"/>
<input type="checkbox"/> Site Investigation	4443	48 hours <input type="checkbox"/>
<input type="checkbox"/> Soil Classify/Disposal	4442	16 days <input checked="" type="checkbox"/> (Normal)
<input type="checkbox"/> Water Classify/Disposal	4443	Other <input type="checkbox"/>
<input type="checkbox"/> Soil/Air Rem. or Syn. O & M	4452	
<input type="checkbox"/> Water Rem. or Syn. O & M	4453	
<input type="checkbox"/> Other		

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

UST AGENCY:

MATERIAL DESCRIPTION: 9708 047

SAMPLE CONDITION/ COMMENTS

Relinquished By (signature):
[Signature]
Printed Name: DOUG SANDERS

Relinquished By (signature):
[Signature]
Printed Name: DOUG SANDERS

Relinquished By (signature):
[Signature]
Printed Name: DOUG SANDERS

Relinquished By (signature):
[Signature]
Printed Name: DOUG SANDERS

Date: 8/25/97
Time: 11:15
Date: 8-25-97
Time: 2:30

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

(650) 364-9600
(510) 988-9600
(916) 921-9600

FAX (650) 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 Albany/970822-S2

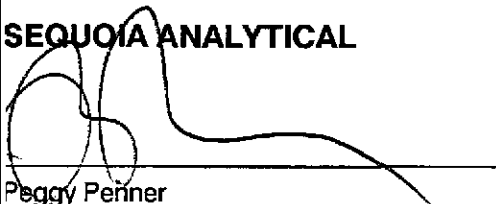
Enclosed are the results from samples received at Sequoia Analytical on August 25, 1997.
The requested analyses are listed below:

<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
9708D47 -01	LIQUID, S-1	08/22/97	TPGM2W Purgeable TPH/BTEX
9708D47 -02	LIQUID, S-2	08/22/97	TPGM2W Purgeable TPH/BTEX
9708D47 -03	LIQUID, S-3	08/22/97	TPGM2W Purgeable TPH/BTEX
9708D47 -04	LIQUID, S-6	08/22/97	TPGM2W Purgeable TPH/BTEX
9708D47 -05	LIQUID, S-7	08/22/97	TPGM2W Purgeable TPH/BTEX
9708D47 -06	LIQUID, DUP	08/22/97	TPGM2W Purgeable TPH/BTEX
9708D47 -07	LIQUID, EB	08/22/97	TPGM2W 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 Perner
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell Albany/970822-S2 Sample Descript: S-1 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9708D47-01	Sampled: 08/22/97 Received: 08/25/97 Analyzed: 08/28/97 Reported: 09/04/97
--	--	---

QC Batch Number: GC082897BTEX03A
Instrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	200	810
Methyl t-Butyl Ether	10	18
Benzene	2.0	18
Toluene	2.0	N.D.
Ethyl Benzene	2.0	5.1
Xylenes (Total)	2.0	4.4
Chromatogram Pattern:		Gas

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	144 Q

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 Albany/970822-S2 Sample Descript: S-2 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9708D47-02	Sampled: 08/22/97 Received: 08/25/97 Analyzed: 08/28/97 Reported: 09/04/97
--	--	---

QC Batch Number: GC082897BTEX03A
Instrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	2500	23000
Methyl t-Butyl Ether	125	4500
Benzene	25	1300
Toluene	25	65
Ethyl Benzene	25	740
Xylenes (Total)	25	290
Chromatogram Pattern:		C6-C12

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70	130

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 Albany/970822-S2 Sample Descript: S-3 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9708D47-03	Sampled: 08/22/97 Received: 08/25/97 Analyzed: 08/28/97 Reported: 09/04/97
--	--	---

QC Batch Number: GC082897BTEX03A
Instrument ID: GCHP03

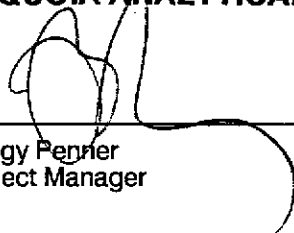
Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	500	4700
Methyl t-Butyl Ether	25	40
Benzene	5.0	60
Toluene	5.0	12
Ethyl Benzene	5.0	19
Xylenes (Total)	5.0	21
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 Albany/970822-S2 Sample Descript: S-6 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9708D47-04	Sampled: 08/22/97 Received: 08/25/97 Analyzed: 08/27/97 Reported: 09/04/97
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QC Batch Number: GC082797BTEX03A
Instrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	500	6200
Methyl t-Butyl Ether	25	49
Benzene	5.0	160
Toluene	5.0	26
Ethyl Benzene	5.0	15
Xylenes (Total)	5.0	27
Chromatogram Pattern:		C6-C12

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70	130
		121

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 Albany/970822-S2
Sample Descript: S-7
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9708D47-05

Sampled: 08/22/97
Received: 08/25/97
Analyzed: 08/27/97
Reported: 09/04/97

QC Batch Number: GC082797BTEX03A
Instrument ID: GCHP03

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





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell Albany/970822-S2 Sample Descript: DUP Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9708D47-06	Sampled: 08/22/97 Received: 08/25/97 Analyzed: 08/27/97 Reported: 09/04/97
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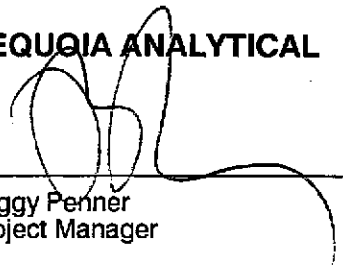
QC Batch Number: GC082797BTEX03A
Instrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	10000	20000
Methyl t-Butyl Ether	500	3900
Benzene	100	1200
Toluene	100	N.D.
Ethyl Benzene	100	630
Xylenes (Total)	100	250
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	109

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 Albany/970822-S2 Sample Descript: EB Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9708D47-07	Sampled: 08/22/97 Received: 08/25/97 Analyzed: 08/27/97 Reported: 09/04/97
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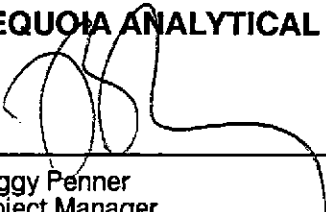
QC Batch Number: GC082797BTEX03A
Instrument ID: GCHP03

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





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

Client Project ID: Shell Albany / 970822-S2
Matrix: Liquid

Work Order #: 9708D47 -01-03

Reported: Sep 5, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC082897BTEX03A	GC082897BTEX03A	GC082897BTEX03A	GC082897BTEX03A	GC082897BTEX03A
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 #:	9708C7104	9708C7104	9708C7104	9708C7104	9708C7104
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	8/28/97	8/28/97	8/28/97	8/28/97	8/28/97
Analyzed Date:	8/28/97	8/28/97	8/28/97	8/28/97	8/28/97
Instrument I.D.#:	GCHP3	GCHP3	GCHP3	GCHP3	GCHP3
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	10	10	10	28	73
MS % Recovery:	100	100	100	93	122
Dup. Result:	10	10	10	28	73
MSD % Recov.:	100	100	100	93	122
RPD:	0.0	0.0	0.0	0.0	0.0
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	BLK082897	BLK082897	BLK082897	BLK082897	BLK082897
Prepared Date:	8/28/97	8/28/97	8/28/97	8/28/97	8/28/97
Analyzed Date:	8/28/97	8/28/97	8/28/97	8/28/97	8/28/97
Instrument I.D.#:	GCHP3	GCHP3	GCHP3	GCHP3	GCHP3
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	10	10	10	28	72
LCS % Recov.:	100	100	100	93	120

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.

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Peggy Penner
Project Manager

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

9708D47.BLA <1>





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

Client Project ID: Shell Albany / 970822-S2
Matrix: Liquid

Work Order #: 9708D47-04-07

Reported: Sep 5, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC082797BTEX03A	GC082797BTEX03A	GC082797BTEX03A	GC082797BTEX03A	GC082797BTEX03A
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 #:	9708C6601	9708C6601	9708C6601	9708C6601	9708C6601
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	8/27/97	8/27/97	8/27/97	8/27/97	8/27/97
Analyzed Date:	8/27/97	8/27/97	8/27/97	8/27/97	8/27/97
Instrument I.D.#:	GCHP3	GCHP3	GCHP3	GCHP3	GCHP3
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	10	10	10	28	72
MS % Recovery:	100	100	100	93	120
Dup. Result:	10	9.9	9.9	28	71
MSD % Recov.:	100	99	99	93	118
RPD:	0.0	1.0	1.0	0.0	1.4
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	BLK082797	BLK082797	BLK082797	BLK082797	BLK082797
Prepared Date:	8/27/97	8/27/97	8/27/97	8/27/97	8/27/97
Analyzed Date:	8/27/97	8/27/97	8/27/97	8/27/97	8/27/97
Instrument I.D.#:	GCHP3	GCHP3	GCHP3	GCHP3	GCHP3
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	9.7	9.6	9.6	27	69
LCS % Recov.:	97	96	96	90	115

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					

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Reggy Renner
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

9708D47.BLA <2>





**Sequoia
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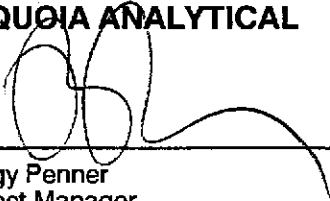
FAX (650) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Proj. ID: Shell Albany/970822-S2 Lab Proj. ID: 9708D47	Received: 08/25/97 Reported: 09/04/97
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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 11 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

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Peggy Penner
Project Manager

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