5500 Shellmound Street, Emeryville, CA 94608-2411

Fax: 510-547-5043 Phone: 510-450-6000

September 14, 1995

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

Re: Third Quarter 1995
Shell Service Station
WIC #204-0079-0109
999 San Pablo Avenue
Albany, California
WA Job #81-0699-205

Dear Ms. Hugo:

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

Third Quarter 1995 Activities:

- Blaine Tech Services, Inc. (BTS) of San Jose, California measured ground water depths and collected ground water samples from the site wells scheduled to be sampled this quarter (Figures 1 and 2). Well S-5 located immediately adjacent to the ARCO station across Marin Avenue contained 1.87 ft of separate-phase hydrocarbons, probably originating from the ARCO station, and was therefore not sampled. BTS' report describing these activities and the analytic report for the ground water samples are included as Attachment A.
- Weiss Associates (WA) calculated ground water elevations and compiled the analytic data (Tables 1 and 2) and prepared a ground water elevation contour map (Figure 2).

Anticipated Fourth Quarter 1995 Activities:

WA will submit a report presenting the results of the fourth quarter 1995 ground water sampling and ground water depth measurements. The report will include tabulated chemical

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analytic results and ground water elevations, a ground water elevation contour map and plotted benzene concentrations in ground water.

Conclusions and Recommendations:

- Since the separate-phase hydrocarbons measured in monitoring well S-5 appear to originate from the ARCO Station across Marin Avenue south of the Shell site, Shell does not intend to install a hydrocarbon skimmer or bail separatephase hydrocarbons from this well.
- Hydrocarbon degrading microbes were previously detected and are likely to remain active in the subsurface at the site.
- WA recommends continued monitoring at this time according to the sampling frequency schedule originally proposed in our first quarter 1994 quarterly monitoring report.

Please call if you have any questions.

-CROYH GEOLOGIST Sincerely,

Weiss Associates

Grady S. Glasser Technical Assistant

James W. Carmody, C.E.G.

Senior Project Hydrogeologist

Attachments:

A - Blaine Tech's Ground Water Monitoring Report

cc:

Jeff Granberry, Shell Oil Products Company, P.O. Box 4023, Concord, California 94524 Kevin Graves, Regional Water Quality Control Board - San Francisco Bay Region, 2101 Webster Street, Suite 500, Oakland, California 94612

GSG/JWC:all INSHELL\0699\QM\93\Q3\95\Q3R.DOC



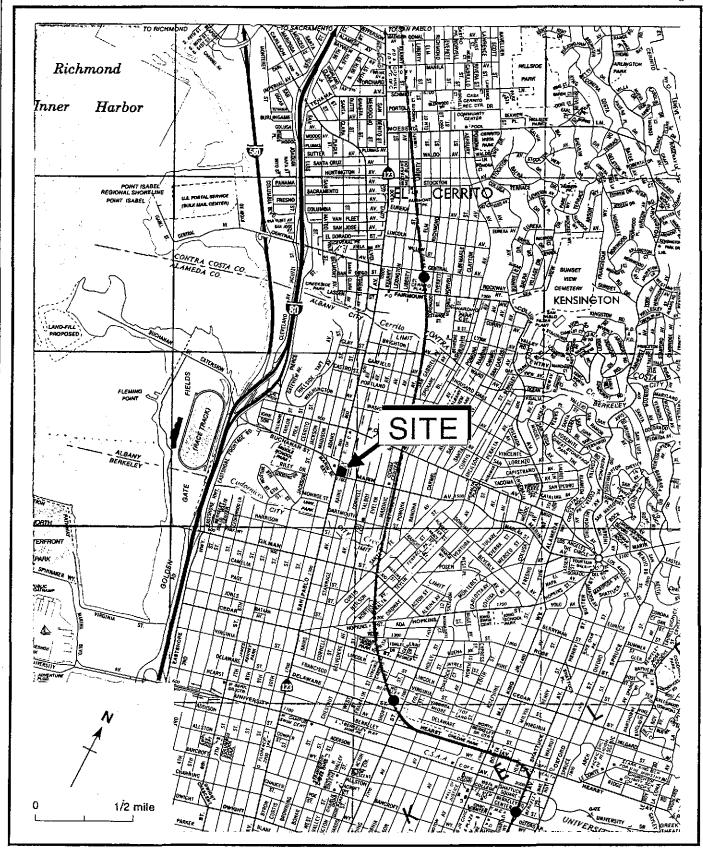


Figure 1. Site Location Map - Shell Service Station WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California

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

*** **		m	Depth to	Separate-Phase	Ground Water
Well	_	Top-of-Vault	Water	Hydrocarbon	Elevation
ID	Date	Elevation	(ft)	Thickness (ft) ^a	(ft above msl)
	וון 177/46 05/13/91		8.54 8.24		
S -1		42.73		 ,	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	-ne	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
•	11/27/40		3.58		
S-2	05/13/91	40.73	8150		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
	07/28/95	A CONTRACTOR OF THE SECOND SEC	7.82		32.91
	1 / 27/90	a Make as a Constantial	8:37 7.90	•	
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

Well ID	Date	Top-of-Vault Elevation	Depth to Water (ft)	Separate-Phase Hydrocarbon Thickness (ft) ^a	Ground Water Elevation (ft above msl)
	· · · · · · · · · · · · · · · · · · ·	·	(-9	(/	(11 doo't mary
	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 8:33		34.18
	2/11/91		3:37		
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
	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	n-o-#	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	t a transmission	6.26		34.84
	07/28/95		7.80.	5.57	33.30
	11/27/91		74,48	4.75 6.48	
S-5	05/13/91	39.99	14.60		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

2 of 3

Well		Top-of-Vault	Depth to Water	Separate-Phase Hydrocarbon	Ground Water Elevation
ID	Date	Elevation	(ft)	Thickness (ft) ^a	(ft above msl)
	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
	0 111191		10.33	1.01	30.07
S-6	11/27/90 05/13/91	40.12	10.32 7.82		32.30
5-0	08/23/91	40.12	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		9.37 8.90		32.22
	01/19/93		4.84		35.28
	04/29/93		5.61		
	07/22/93				34.51
	10/21/93		6.56 8.73		33.56 31.39
	01/04/94				
	04/13/94		7.14 7.21		32.98
•	07/25/94		6.85		32.91
	10/10/94		6.20		33.27
	01/26/95				33.92
	04/21/95		4.89 5.61		35.23 34.51
	07/28/95		5.30		34.51 34.82
	4.5		**** ** ******************************		J-1.02
S-7	11/27/40 05/13/91	40.10	/ o.93 10.56		29.54
	08/23/91	, 3125	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
	10/10/94		10.64		29.46
	01/26/95		7.75		32.35
	04/21/95		8.51		31.59
	07/28/95	a series established	10.20	North Contract Contra	29.90

Notes:

When separate-phase hydrocarbons are present, ground water elevation corrected by the relation: corrected ground water elevation = (top-of-box elevation) - (depth to water) + (0.8 x separate-phase hydrocarbon thickness)

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

Well ID & Sampling	D.A.	Depth to	TPH-G	В	T s per billion (µ	E	X	DO	HDM Units
Frequency	Date 2	water (It)	15.03	part		(ppm)	units/L		
S-1	11/27/40	Water (ft) 8.54 8.24	2 200	27 !!	- Z. E	5.8	4.2		
	05/13/91		1,500	20	2.6	86	74		
(Bi-annually,	08/23/91	8.37	2,900	27	<2.5	75	18		
1st & 3rd	11/07/91	8.30	2,900	8	2.5	46	26		
Qtrs)	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		
	07/29/93	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 1 82 00	7.2	1 0	11	8.9	4,0	8 888 88888888
	8/12/190	2.58		4500	47	170	620	עוד	
S-2	05/13/91	8:55 8.50	23,000	3,900	230 230	1,100	3,200	•	
(Bi-annually,	08/23/91	8.80	23,000	4,400	260	1,900	2,400		~==
1st & 3rd	11/07/91	8.61	40,000	4,000	160	1,020	3,400	# - 4	
Qtrs)	01/28/92	7.80	22,000	1,600	70	420	1,700		
(,	05/06/92	8.10	20,000	2,600	110	860			
	07/29/92	8.37	42,000	5,000	160	1,100	1,900		
	10/28/92	8.64	34,000	4,800			3,500		
	01/19/93	5.82	•	•	330	1,600	2,900		
WA	1 01/19/93		20,000	2,300	370	660	1,300		~~=
Motor	Ţ	7.70	40,000	2,000	67	900	1,900		
	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		

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

Well ID & Sampling	_	Depth to	TPH-G	В	Τ rts per billion (μg/	Е	x	DO	HDM Units
Frequency	Date	Water (ft)		pa		(ppm)	units/L		
	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	5.5	10 ⁴ to 10 ^{5 ab}
	7/28/95 2/1./9/ 1/21/46 05/13/91	7,82 8,38 7.90	14,000 1300 1900	2,400	360 42. r	960 2.3 26	370	4.0	10 10 10
S-3	05/13/91	7.90	3,300	7.3 30	3.6	7. 3 26	3.5 3.2 13		
(Bi-annually,	08/23/91	8.14	2,000	25	4	9.3	4.5		
1st & 3rd	11/07/91	7.91	4,000	20 🐇	3.9	5	4.9		777
Qtrs)	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	***	
	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		
	7/28/95	7.28	3,700	27	9.3	20	34	4,0	
S-4	2 / 11 /91 05/13/91	7 .88 7.44	< 50	<0.5	<0.5	<0.5	<0.5		
(Annually 1st	08/23/91	8.32	<50	< 0.5	<0.5				
Qtr)	11/07/91	8.32	260	< 0.5	<0.5	< 0.5	< 0.5		
~··/	01/28/92	7.40	200 110°	<0.5	< 0.5	< 0.5	< 0.5		
	05/06/92	7.40	54	<0.5	<0.5	<0.5 <0.5	<0.5 <0.5		



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

Well ID & Sampling		Depth to	TPH-G	В	Т	Е	X	DO	HDM Unit
Frequency	Date	Water (ft)		— parts	s per billion (με	g/L)		(ppm)	units/L
	07/29/92	8.13	67	<0.5	٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠	.0.5	.0.6		
	10/28/92	8.73			< 0.5	< 0.5	< 0.5		
	01/19/93		<50	< 0.5	< 0.5	< 0.5	< 0.5		
	04/29/93	5.86	86	1.2	0.7	2.7	15		
	04/29/93 04/29/93 ^{dup}	7.02	< 50	< 0.5	< 0.5	< 0.5	< 0.5		
		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 2///19/504 11/27/40 SPH 05/13/91 SPH	7.80 15. oz			202 .		- 		<u> </u>
S-5	05/13/91 ^{SPH}	14.60							
Quarterly)	08/23/91 ^{SPH}	15.14							
	11/07/91 ^{SPH}	15.10							
	01/28/92 ^{SPH}	14.05							
	05/06/92 ^{SPH}	14.31				,		4+ -	
	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			*			<u>.</u>	
	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			••• **********************************	 X000.000.000.000.000.000.000.000.000		 *******************************	

Weiss Associates

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

Well ID & Sampling		Depth to	TPH-G	В	Т	E	х	DO	HDM Units	
Frequency	Date	Water (ft)	4000	540 part	s per billion (μ	g/L)	─	(ppm)	units/L	
	11/2-1/90	70.33 10.82 7.82	8000	7600	37 140	210	310			
S-6	05/13/91		13,000			210	310	·		
(Bi-annually,	08/23/91	9.58	9,800	480	80	120	150			
1st & 3rd	11/07/91	10.86	6,200	240	23	25	27			
Qtrs)	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	50- vaj 40		
	07/25/94 ^{dup}	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 ^{dup}	5.30	6,100	230		38	59 _	3.0		
	2/11/9/	The second contract of		aranan wasan wasan kata da kata kata kata kata kata kata k	20 28.5	₹2 ₹5 ₹ 0.5	N/2	************		
S-7	05/13/91	10.56	250 <50	- 26.5 <0.5	< 0.5	₹ 0.5	کرفر کے <0.5			
(Quarterly)	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			
	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				~0.5					
	10/21/93	11.10	< 50	< 0.5	< 0.5	<0.5	<0.5		'	

Weiss Associates

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

Well ID & Sampling		Depth to	ТРН-G	В	Т	E	x	DO	HDM Units
Frequency	Date	Water (ft)		— parts	per billion (μg	(ppm)	units/L		
	01/04/94	10.40	< 50	< 0.5	~0.5	10.5	10.0		
	04/13/94	10.20	< 50		< 0.5	< 0.5	<0.5		
	04/13/94 ^{dup}	10.20	<50	1.4	0.61	< 0.5	0.64		
	07/25/94	10.20		1.4	0.61	< 0.5	0.66		
	10/10/94°		<50	< 0.5	< 0.5	< 0.5	< 0.5		
		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	4.6	10^3 to 10^{5} ab
	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	· · · · · · · · · · · · · · · · · · ·
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			
	07/25/94		< 50	<0.5	<0.5	<0.5	< 0.5		
	10/10/94		<50	<0.5	< 0.5		< 0.5	,	
	01/26/95		<50	<0.5		< 0.5	< 0.5		***
	04/21/95				0.7	< 0.5	< 0.5		
	07/28/95	ST GOODSE TO DE PARES COM COMMENS	<50	< 0.5	<0.5	<0.5	<0.5	anamanananan sahasasasasas	
	V//20/73		<50	<0.5	< 0.5	< 0.5	<0.5		
DTSC MCLs			NE	1	10 ^f	680	1,750		

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 602 or 8020

--- = Not analyzed

DTSC MCLs = California Department of Toxic Substances Control maximum contaminant levels for drinking water

NE = Not established

< n = Not detected at detection limits of n ppb

dup = Duplicate sample

SPH = Separate-phase hydrocarbons detected, no sample collected

DO = Dissolved Oxygen

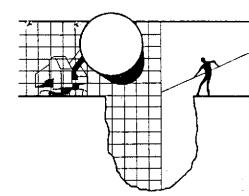
HDM = Hydrocarbon Degrading Microbes

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 (450,000 ppb)
- f = DTSC recommended action level for drinking water; MCL not established

ATTACHMENT A

GROUND WATER MONITORING REPORT AND ANALYTIC REPORT



BLAINE TECH SERVICES INC.

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

August 21, 1995

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

Attn: Daniel T. Kirk

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

QUARTER: 3rd quarter of 1995

QUARTERLY GROUNDWATER SAMPLING REPORT 950728-S-1

This report contains data collected during routine inspection, gauging and sampling of groundwater monitoring wells performed by Blaine Tech Services, Inc. in response to the request of the consultant who is overseeing work at this site on behalf of our mutual client, Shell Oil Company. Data collected in the course of our field work is presented in a TABLE OF WELL GAUGING DATA. The field information was collected during our preliminary gauging and inspection of the wells, the subsequent evacuation of each well prior to sampling, and at the time of sampling.

Measurements taken include the total depth of the well and the depth to water. The surface of water was further inspected for the presence of immiscibles which may be present as a thin film (a sheen on the surface of the water) or as a measurable free product zone (FPZ). At intervals during the evacuation phase, the purge water was monitored with instruments that measure electrical conductivity (EC), potential hydrogen (pH), temperature (degrees Fahrenheit), and turbidity (NTU). In the interest of simplicity, fundamental information is tabulated here, while the bulk of the information is turned over directly to the consultant who is making professional interpretations and evaluations of the conditions at the site.

STANDARD PROCEDURES

Evacuation

Groundwater wells are thoroughly purged before sampling to insure that the sample is collected from water that has been newly drawn into the well from the surrounding geologic formation. The selection of equipment to evacuate each well is based on the physical characteristics of the well and what is known about the performance of the formation in which the well has been installed. There are several suitable devices which can be used for evacuation. The most commonly employed devices are air or gas actuated pumps, electric submersible pumps, and hand or mechanically actuated bailers. Our personnel frequently employ USGS/Middleburg positive displacement pumps or similar air actuated pumps which do not agitate the water standing in the well.

Normal evacuation removes three case volumes of water from the well. More than three case volumes of water are removed in cases where more evacuation is needed to achieve stabilization of water parameters and when requested by the local implementing agency. Less water water may be removed in cases where the well dewaters and does not recharge to 80% of its original volume within two hours and any additional time our personnel have reason to remain at the site. In such cases, our personnel return to the site within twenty-four hours and collect sample material from the water which has recharged into the well case.

Decontamination

All apparatus is brought to the site in clean and serviceable condition. The equipment is decontaminated after each use and before leaving the site. Effluent water from purging and on-site equipment cleaning is collected and transported to Shell's Martinez Manufacturing Complex in Martinez, California.

Free Product Skimmer

The column headed, VOLUME OF IMMISCIBLES REMOVED (ml) is included in the TABLE OF WELL GAUGING DATA to cover situations where a free product skimming device must be removed from the well prior to gauging. Skimmers are installed in wells with a free product zone on the surface of the water. The skimmer is a free product recovery device which often prevents normal well gauging and free product zone measurements. The 2.0" and 3.0" PetroTraps fall into the category of devices that obstruct normal gauging. In cases where the consultant elects to have our personnel pull the skimmers out of the well and gauge the well, our personnel perform the additional task of draining the accumulated free product out of the PetroTrap before putting it back in the well. This

recovered free product is measured and logged in the VOLUME OF IMMISCIBLES REMOVED column. Gauging at such site is performed in accordance with specific directions from the professional consulting firm overseeing work at the site on Shell's behalf.

Sample Containers

Sample material is collected in specially prepared containers which are provided by the laboratory that performs the analyses.

Sampling

Sample material is collected in stainless steel bailer type devices normally fitted with both a top and a bottom check valve. Water is promptly decanted into new sample containers in a manner which reduces the loss of volatile constituents and follows the applicable EPA standard for handling volatile organic and semi-volatile compounds.

Following collection, samples are promptly placed in an ice chest containing prefrozen blocks of an inert ice substitute such as Blue Ice or Super Ice. The samples are maintained in either an ice chest or a refrigerator until delivered into the custody of the laboratory.

Sample Designations

All sample containers are identified with a site designation and a discrete sample identification number specific to that particular groundwater well. Additional standard notations (e.g. time, date, sampler) are also made on the label.

Chain of Custody

Samples are continuously maintained in an appropriate cooled container while in our custody and until delivered to the laboratory under a standard Shell Oil Company Chain of Custody. If the samples are taken charge of by a different party (such as another person from our office, a courier, etc.) prior to being delivered to the laboratory, appropriate release and acceptance records are made on the Chain of Custody (time, date, and signature of the person releasing the samples followed by the time, date and signature of the person accepting custody of the samples).

Hazardous Materials Testing Laboratory

The samples obtained at this site were delivered to National Environmental Testing, Inc. in Santa Rosa, California. NET is a California Department of Health Services certified Hazardous Materials Testing Laboratory and is listed as DOHS HMTL #1386.

Objective Information Collection

Blaine Tech Services, Inc. performs specialized environmental sampling and documentation as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. performs no consulting and does not become involved in the marketing or installation of remedial systems of any kind. Blaine Tech Services, Inc. is concerned only with the generation of objective information, not with the use of that information to support evaluations and recommendations concerning the environmental condition of the site. Even the straightforward interpretation of objective analytical data is better performed by interested regulatory agencies and those engineers and geologists who are engaged in the work of providing professional opinions about the site and proposals to perform additional investigation or design remedial systems.

Reportage

Submission of this report and the attached laboratory report to interested regulatory agencies is handled by the consultant in charge of the project. Any professional evaluations or recommendations will be made by the consultant under separate cover.

Please call if we can be of any further assistance.

Richard C. Blaine

RCBlp

Attachments: table of well gauging data

chain of custody

certified analytical report

cc: Weiss Associates

5500 Shellmound Street Emeryville, CA 94608-2411

ATTN: Grady Glasser

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 (feel)	VOLUME OF IMMISCIBLES REMOVED (ml)	DEPTH TO WATER (feet)	DEPTH TO WELL BOTTOM (feet)
S-1 S-2 S-3 S-4 S-5 S-6 ° S-7	7/28/95 7/28/95 7/28/95 7/28/95 7/28/95 7/28/95 7/28/95	TOB TOB TOB TOB TOB TOB TOB	ODOR ODOR FREE PRODUCT	NONE NONE NONE NONE 9.55 NONE NONE	 1.87 	 	7.90 7.82 7.28 7.80 11.42 5.30	11.85 12.18 12.20 14.20 - 15.25 15.10

^{*} Sample DUP was a duplicate sample taken from well MW-6.

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Consultant Contact: Jim Keller			i	Phone	e No.:	(408)	1	÷		8240)		BTEX		1	1 '				Cloudy/Disposal	M cm	14 T
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Printed Name: 5//	AW	NHO	<u>OU</u>	6	 -	·	(EPA 80)	(EPA 801)	EPA 80	Volatile Organics	Test for Disposal	Combination			80	Container Stze	Preparation Used		MATERIAL		SAMPLE .
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Santa Rosa Division 3636 North Laughlin Road Suite 110 Santa Rosa, CA 95403-8226

Tel: (707) 526-7200 Fax: (707) 541-2333

Jim Keller Blaine Tech Services 985 Timothy Dr. San Jose, CA 95133 Date: 08/14/1995

NET Client Acct. No: 1821

NET Job No: 95.03004 Received: 07/31/1995

Client Reference Information

Shell 999 San Pablo Avenue, Albany, CA/950728-S1

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

Submitted by:

Jennifer L./Roseberry

Project Manager

Enclosure(s)





Client Acct: 1821 NET Job No: 95.03004 Date: 08/14/1995

ELAP Cert: 1386 Page: 2

Ref: Shell 999 San Pablo Avenue, Albany, CA/950728-S1

SAMPLE DESCRIPTION: S-1

Date Taken: 07/28/1995

Time Taken:

NET Sample No: 247349

NET Sample No: 247349							Run
		Reporting			Date	Date	Batch
Parameter	Results Flags	Limit	Units	Method	Extracted	Analyzed	No
METHOD 5030/8015-M (Shell)							
DILUTION FACTOR*	1					08/01/1995	3053
Purgeable TPH	660	. 50	ug/L	5030/ M8 015		08/01/1995	3053
Carbon Range: C6 to C12						08/01/1995	3053
METHOD 8020 (GC, Liquid)						08/01/1995	3053
Benzene	7.2	0.5	ug/L	8020		08/01/1995	3053
Toluene	1.0	0.5	ug/L	8020		08/01/1995	3053
Ethylbenzene	11	0.5	ug/L	8020		08/01/1995	3053
Xylenes (Total)	8.9	0.5	ug/L	8020		08/01/1995	3053
SURROGATE RESULTS						08/01/1995	3053
Bromofluorobenzene (SURR)	104		₹ Rec.	8020	-	08/01/1995	3053



Client Acct: 1821 NET Job No: 95.03004 Date: 08/14/1995

ELAP Cert: 1386 Page: 3

Ref: Shell 999 San Pablo Avenue, Albany, CA/950728-S1

SAMPLE DESCRIPTION: S-2

Date Taken: 07/28/1995

Time Taken:

NET Sample No: 247350

NEI Sample NO: 24/350								Run
		;	Reporting			Date	Date	Batch
Parameter	Results	Flags	Limit	Units	Method	Extracted	Analyzed	No.
METHOD 5030/8015-M (Shell)	•							
DILUTION FACTOR*	10						08/02/1995	3054
· Purgeable TPH	14,000		500	ug/L	5030/M8015		08/02/1995	3054
Carbon Range: C6 to C12						•	08/02/1995	3054
METHOD 8020 (GC, Liquid)							08/02/1995	3054
Benzene	2,400	FF	50	ug/L	8020		08/02/1995	3054
Toluene	360		5	ug/L	8020		08/02/1995	3054
Ethylbenzene	960	FF	50	ug/L	8020		08/02/1995	3054
Xylenes (Total)	370		5	ug/L	802D		08/02/1995	3054
SURROGATE RESULTS						•	08/02/1995	3054
Bromofluorobenzene (SURR)	112			% Rec.	8020		08/02/1995	3054

FF : Compound quantitated at a 100% dilution factor.



Client Acct: 1821 NET Job No: 95.03004 Date: 08/14/1995

ELAP Cert: 1386

Ref: Shell 999 San Pablo Avenue, Albany, CA/950728-S1

SAMPLE DESCRIPTION: S-3

Date Taken: 07/28/1995

NET Sample No: 247351							Run
		Reporting			Date	Date	Batch
<u>Parameter</u>	Results Flags	Limit	Units	Method	Extracted	Analyzed	No
METHOD 5030/8015-M (Shell)				•••			
DILUTION FACTOR*	10					08/02/1995	3054
Purgeable TPH	3,700	500	ug/L	5030/M8015		08/02/1995	3054
Carbon Range: C6 to C12					•	08/02/1995	3054
METHOD 8020 (GC, Liquid)				·		08/02/1995	3054
Benzene	27	5	ug/L	8020		08/02/1995	3054
Toluene	9.3	5	ug/L	8020		08/02/1995	3054
Ethylbenzene	20	5	ug/L	8020		08/02/1995	3054
Xylenes (Total)	34	5	ug/L	8020		08/02/1995	3054
SURROGATE RESULTS				,		08/02/1995	3054
Bromofluorobenzene (SURR)	114		* Rec.	8020		08/02/1995	3054



Client Acct: 1821 NET Job No: 95.03004 Date: 08/14/1995

ELAP Cert: 1386 Page: 5

Ref: Shell 999 San Pablo Avenue, Albany, CA/950728-S1

SAMPLE DESCRIPTION: S-6

Date Taken: 07/28/1995

Time Taken:

NET Sample No: 247353

NET Sample No: 247353							Run
		Reporting			Date	Date	Batch
Parameter	Results Flac	qs Limit	Units	Method	Extracted	Analyzed	No.
METHOD 5030/8015-M (Shell)							
DILUTION FACTOR*	10					08/04/1995	3065
Purgeable TPH	4,400	500	ug/L	5030/M8015		DB/04/1995	3065
Carbon Range: C6 to C12						08/04/1995	3065
METHOD 8020 (GC, Liquid)						08/04/1995	3065
Benzene	210	5	ug/L	8020		08/04/1995	3065
Toluene	23	5	ug/L	8020		08/04/1995	3065
Ethylbenzene	34 '	5	ug/L	8020		08/04/1995	3065
Xylenes (Total)	60	5	ug/L	8020		08/04/1995	3065
SURROGATE RESULTS						08/04/1995	3065
Bromofluorobenzene (SURR)	105		ች Rec.	8020		08/04/1995	3065



Client Acct: 1821

Date: 08/14/1995

ELAP Cert: 1386

Page: 6

Ref: Shell 999 San Pablo Avenue, Albany, CA/950728-S1

SAMPLE DESCRIPTION: S-7

Date Taken: 07/28/1995

NET Sample No: 247354							Run
		Reporting			Date	Date	Batch
Parameter	Results Flags	. Limit	Units	Method	Extracted_	Analyzed	No.
METHOD 5030/8015-M (Shell)							
DILUTION FACTOR*	1 '					08/01/1995	3053
Purgeable TPH	ND	50	ug/L	5030/M8015		08/01/1995	3053
Carbon Range: C6 to C12						08/01/1995	3053
METHOD 8020 (GC, Liquid)						08/01/1995	3053
Benzene	ND	0.5	ug/L	8020		08/01/1995	3053
Toluene	ND	0.5	ug/L	8020		08/01/1995	3053
Ethylbenzene	ND .	0.5	ug/L	8020		08/01/1995	3053
Xylenes (Total)	ND	0.5	ug/L	B020		08/01/1995	3053
SURROGATE RESULTS						08/01/1995	3053
Bromofluorobenzene (SURR)	95		% Rec.	8020		08/01/1995	3053



Date: 08/14/1995

Page: 7

Ref: Shell 999 San Pablo Avenue, Albany, CA/950728-S1

SAMPLE DESCRIPTION: DUP

Date Taken: 07/28/1995

NET Sample No: 247355							Run
		Reporting			Date	Date	Batch No
Parameter	Results Flags	Limit	Units	Method	Extracted	Analyzed	
METHOD 5030/8015-M (Shell)							
DILUTION FACTOR*	10					08/02/1995	3054
Purgeable TPH	6,100	500	ug/L	5030/M8015		08/02/1995	3054
Carbon Range: C6 to C12						08/02/1995	3054
METHOD 8020 (GC, Liquid)						08/02/1995	3054
Benzene	230	5	ug/L	8020		08/02/1995	3054
Toluene	20	5	ug/L	8020		08/02/1995	3054
Ethylbenzene	38 .	5	ug/L	8020		08/02/1995	3054
Xylenes (Total)	59	5 . ,	ug/L	8020		08/02/1995	3054
SURROGATE RESULTS						08/02/1995	3054
Bromofluorobenzene (SURR)	108		* Rec.	8020		08/02/1995	3054



Date: 08/14/1995

ELAP Cert: 1386

Page: 8

Ref: Shell 999 San Pablo Avenue, Albany, CA/950728-Sl

SAMPLE DESCRIPTION: EB

Date Taken: 07/28/1995

NET Sample No: 247356							Run
		Reportir	ng		Date	Date	Batch
Parameter	Results Fl	ags Limit	Units	Method	Extracted	Analyzed	No.
METHOD 5030/8015-M (Shell)							
DILUTION FACTOR*	1					08/01/1995	3053
Purgeable TPH	ND	50	ug/L	5030/M8015		08/01/1995	3053
Carbon Range: C6 to C12						08/01/1995	3053
METHOD 8020 (GC, Liquid)						08/01/1995	3053
Benzene	ND	0.5	ug/L	8020		08/01/1995	3053
Toluene	ND	0.5	ug/L	8020		08/01/1995	3053
Ethylbenzene	ND ·	0.5	ug/L	8020		08/01/1995	3053
Xylenes (Total)	ND	0.5	ug/L	8020		08/01/1995	3053
SURROGATE RESULTS						08/01/1995	3053
Bromofluorobenzene (SURR)	93		% Rec.	8020		08/01/1995	3053



Client Acct: 1821 NET Job No: 95.03004 Date: 08/14/1995

ELAP Cert: 1386

Page: 9

Ref: Shell 999 San Pablo Avenue, Albany, CA/950728-S1

SAMPLE DESCRIPTION: TB

Date Taken: 07/28/1995

NET Sample No: 247357							Run
		Reporting			Date	Date	Batch
Parameter	Results Flags	Limit	Units	Method	Extracted	Analyzed	No.
METHOD 5030/8015-M (Shell)							
DILUTION FACTOR*	1 .					08/10/1995	3074
Purgeable TPH	ND	50	ug/L	5030/MB015		08/10/1995	3074
Carbon Range: C6 to C12						08/10/1995	3074
METHOD 8020 (GC, Liquid)						08/10/1995	3074
Benzene	ND	0.5	ug/L	8020		08/10/1995	3074
Toluene	ND	0.5	ug/L	8020		08/10/1995	3074
Ethylbenzene	ND	0.5	ug/L	8020		08/10/1995	3074
Xylenes (Total)	ND	0.5	ug/L	8020		08/10/1995 -	3074
SURROGATE RESULTS						08/10/1995	3074
Bromofluorobenzene (SURR)	95		% Rec.	8020		08/10/1995	3074



Client Acct: 1821 NET Job No: 95.03004 Date: 08/14/1995

LAP Cert: 1386

Ref: Shell 999 San Pablo Avenue, Albany, CA/950728-S1

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

			CCV	CCA				
		ccv	Standard	Standard				Run
		Standard	Amount	Amount		Date	Analyst	Batch
Parameter		% Recovery	Found	Expected	Units	Analyzed	Initials	Number
METHOD 5030/8015-M	(Shell)							
Purgeable TPH		88.0	0.44	0.50	mg/L	08/01/1995	lss	3053
Benzene		114.0	5.70	5.00	ug/L	08/01/1995	lss	3053
Toluene		111.6	5.58	5.00	ug/L	08/01/1995	lss	3053
Ethylbenzene		110.4	5.52	5.00	ug/L	08/01/1995	lss	3053
Xylenes (Total)		112.7	16.9	15.0	ug/L	08/01/1995	lss	3053
Bromofluorobenzene	(SURR)	101.0	101	100	₹ Rec.	08/01/1995	lss	3053
METHOD 5030/8015-M	(Shell)							
Purgeable TPH		94.0	0.47	0.50	mg/L	08/02/1995	aal	3054
Benzene		109.6	5.48	5.00	ug/L	08/02/1995	aal	3054
Toluene		106.6	.5.33	5.00	ug/L	08/02/1995	aal	3054
Ethylbenzene		105.0	5.25	5.00	ug/L	OB/02/1995	aal	3054
Xylenes (Total)		106.7	16.0	15.0	ug/L	08/02/1995	aal	3054
Bromofluorobenzene	(SURR)	106.0	106	100	% Rec.	08/02/1995	aal	3054
METHOD 5030/8015-M	(Shell)							
Purgeable TPH		84.8	0.424	0.50	mg/L	08/04/1995	aal	3065
Benzene		113.4	5.67	5.00	ug/L	08/04/1995	aal	3065
Toluene		110.4	5.52	5.00	ug/L	08/04/1995	aal	3065
Ethylbenzene		108.8	5.44	5.00	ug/L	08/04/1995	aal	3065
Xylenes (Total)		111.3	16.7	15.0	ug/L	08/04/1995	aal	3065
Bromofluorobenzene	(SURR)	106.0	106	100	% Rec.	08/04/1995	aal	3065
METHOD 5030/8015-M	(Shell)							
Purgeable TPH		98.0	0.49	0.50	mg/L	08/10/1995	aal	3074
Benzene		102.2	5.11	5.00	ug/L	08/10/1995	aal	3074
Toluene		100.4	5.02	5.00	ug/L	08/10/1995	aal	3074
Ethylbenzene		93.4	4.67	5.00	ug/L	08/10/1995	aal	3074
Xylenes (Total)		101.3	15.2	15.0	ug/L	08/10/1995	aal	3074
Bromofluorobenzene	(SURR)	95.0	95	100	* Rec.	08/10/1995	aal	3074



Client Acct: 1821 NET Job No: 95.03004 Date: 08/14/1995

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Ref: Shell 999 San Pablo Avenue, Albany, CA/950728-51

METHOD BLANK REPORT

Method

	Blank					Run
	Amount	Reporting		Date	Analyst	Batch
Parameter	Found	Limit	Units	Analyzed	Initials	Number
METHOD 5030/8015-M (Shell)						
Purgeable TPH	ND	0.05	mg/L	08/01/1995	lss	3053
Benzene	ИD	Ð.5	ug/L	08/01/1995	lss	3053
Toluene	ND	0.5	ug/L	08/01/1995	lss	3053
Ethylbenzene	ND	0.5	ug/L	08/01/1995	lss	3053
Xylenes (Total)	ND	0.5	ug/L	08/01/1995	lss .	3053
Bromofluorobenzene (SURR)	88		* Rec.	08/01/1995	lss	3053
METHOD 5030/8015-M (Shell)	-					,
Purgeable TPH	ND	0.05	mg/L	08/02/1995	aal	3054
Benzene	ND	0.5	ug/L	08/02/1995	aal	3054
Toluene	ND	0.5	ug/L	08/02/1995	aal	3054
Ethylbenzene	ND	0.5	ug/L	08/02/1995	aal	3054
Xylenes (Total)	ND	0.5	ug/L	08/02/1995	aal	3054
Bromofluorobenzene (SURR)	96		% Rec.	08/02/1995	aal	3054
METHOD 5030/8015-M (Shell)		•				
Purgeable TPH	ND	0.05	mg/L	08/04/1995	aal	3065
Benzene	ND	0.5	ug/L	OB/04/1995	aal	3065
Toluene	ND	0.5	ug/L	08/04/1995	aal	3065
Ethylbenzene	ND	0.5	ug/L	08/04/1995	aal	3065
Xylenes (Total)	ND	0.5	ug/L	08/04/1995	aal	3065
Bromofluorobenzene (SURR)	103		% Rec.	08/04/1995	aal	3065
METHOD 5030/8015-M (Shell)						
Purgeable TPH	ND	0.05	mg/L	08/10/1995	aal	3074
Benzene	ND	0.5	ug/L	08/10/1995	aal	3074
Toluene	ND	0.5	ug/L	08/10/1995	aal	3074
Ethylbenzene	ND	0.5	ug/L	08/10/1995	aal	3074
Xylenes (Total)	ND	0.5	ug/L	08/10/1995	aal	3074
Bromofluorobenzene (SURR)	85		% Rec.	08/10/1995	aal	3074



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MATRIX SPIKE / MATRIX SPIKE DUPLICATE

	Matrix	Matrix Spike				Matrix	Matrix Spike	¢	_		
•	Spike	Dup		Spike	Sample	Spike	Dup.		Date	Run	Sample
Parameter	₹ Rec.	₹ Rec.	RPD	Amount	Conc.	Conc.	Conc.	Units	Analyzed	_Batch	Spiked
METHOD 5030/8015-M (Shell)											247294
Purgeable TPH	106.0	96.0	9.8	0.50	ND	0.53	0.48	mg/L	08/01/1995	3053	247294
Benzene	91.6	91.1	0.5	8.88	ND	8.13	8.09	ug/L	08/01/1995	3053	247294
Toluene	125.0	121.5	2.8	26.0	ND	32.5	31.6	ug/L	08/01/1995	3053	247294
METHOD 5030/8015-M (Shell)					•						247100
Purgeable TPH	108.0	110.0	1.8	0.50	0.12	0.66	0.67	mg/L	08/02/1995	3054	247100
Benzene	98.6	113.8	14.2	7.91	15	22.8	24.0	ug/L	08/02/1995	3054	247100
Toluene	110.3	111.7	1.3	29.1	1.1	33.2	33.6	ug/L	08/02/1995	3054	247100
METHOD 5030/8015-M (Shell)											247542
Purgeable TPH	84.0	84.0	0.0	0.5	0.08	0.50	0.50	mg/L	08/10/1995	3074	247542
Benzene	120.7	116.2	3.8	7.28	ND	8.79	8.46	ug/L	08/10/1995	3074	247542
Toluene	100.0	97.6	2.3	25.4	ND	25.4	24.8	ug/L	08/10/1995	3074	247542



KEY TO ABBREVIATIONS and METHOD REFERENCES

 Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.

: Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated Reporting Limits by the dilution factor (but do not multiply reported values).

ICVS : Initial Calibration Verification Standard (External Standard).

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

mg/Kg (ppm): Concentration in units of milligrams of analyte per kilogram of sample,

wet-weight basis (parts per million).

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

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

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

N/A : Not applicable.

NA : Not analyzed.

ND : Not detected; the analyte concentration is less than applicable listed

reporting limit.

NTU : Nephelometric turbidity units.

RPD : Relative percent difference, 100 [Value 1 - Value 2]/mean value.

SNA : Standard not available.

ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample,

wet-weight basis (parts per billion).

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

umhos/cm : Micromhos per centimeter.

Method References

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

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

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

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

COOLER RECEIPT FORM

roject: 950778-S1	I	og No: 7840
cooler received on:	d checked on 75146	by S
	(signatu	ire)
ere custody papers present?		YES NO
ere custody papers properly fil	led out?	NO NO
ere the custody papers signed?.		/ -
Was sufficient ice used?		YES NO TEMP 4º
oid all bottles arrive in good o	condition (unbroken)	
oid bottle labels match COC?		ÝES NO
Were proper bottles used for ana	alysis indicated?	YES NO
Correct preservatives used?		~ `
VOA vials checked for headspace Note which voas (if any	bubbles?) had bubbles:*	YES NO
*All VOAs with headspace bubble used for analysis	Number of vials: 2 5 2 3 1 3 1 0 3 s have been set asid	de so they will not be
List here all other jobs receiv		er:
	NET log #	
Client Job #	NET 109 #	
	·	

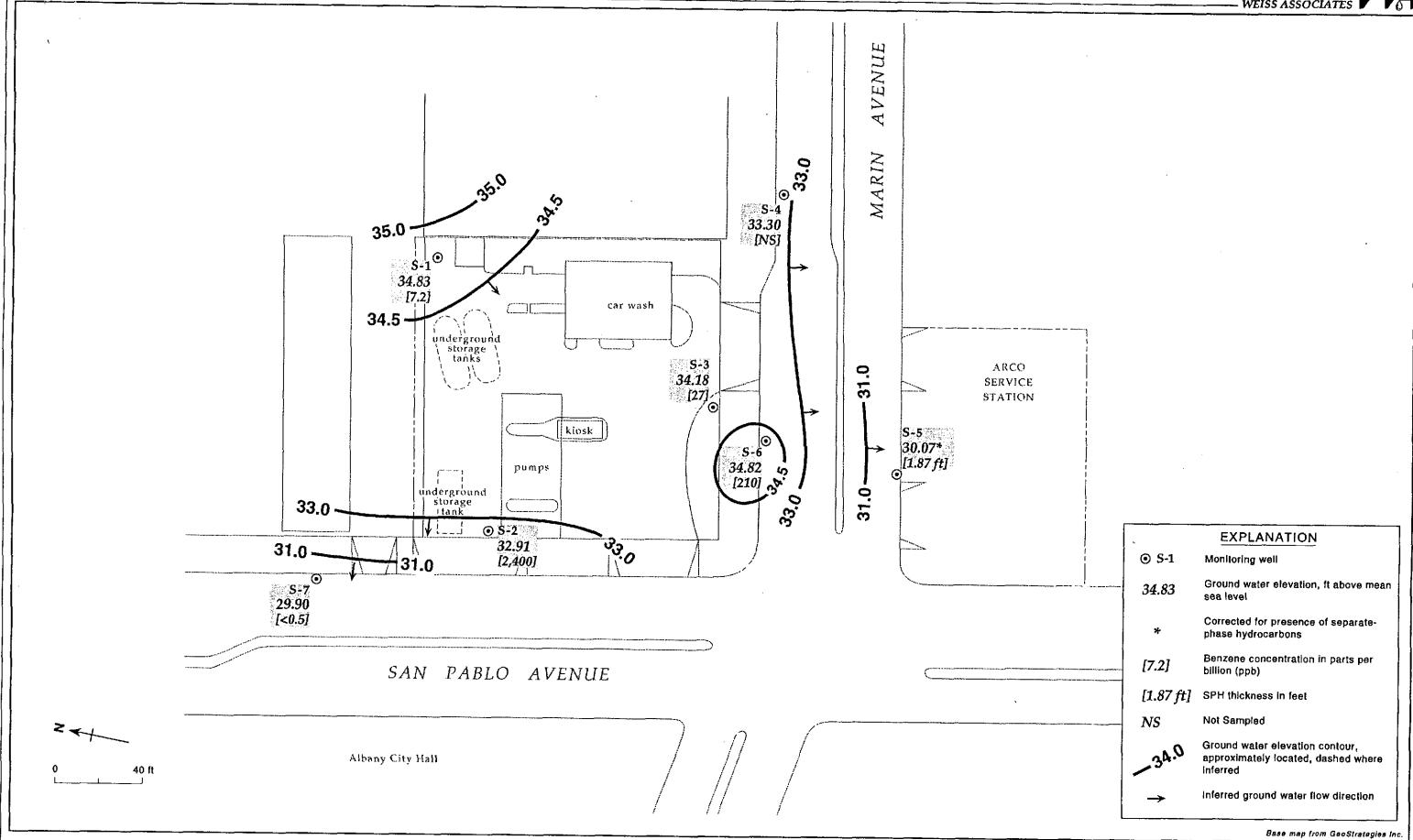


Figure 2. Monitoring Well Locations, Ground Water Elevation Contours, and Benzene Concentrations in Ground Water - July 28, 1995- Shell Service Station WIC #204-0079-0109, 999 San Pablo Avenue, Albany, California

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