5500 Shellmound Street, Emeryville, CA 94608-2411

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

October 5, 1995

eva chu
Alameda County Department of
Environmental Health
Hazardous Materials Division
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502-6577

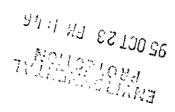
Re: Third Quarter 1995
Shell Service Station
WIC #204-0072-0403
1601 Webster Street
Alameda, California 94501
WA Job #81-0434-205

Dear Ms. chu:

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:

- Weiss Associates conducted the monthly operation and maintenance on the ground water oxygenation system on July 7, 1995. The system was turned off on July 7, 1995 in preparation of the scheduled ground water sampling on July 12. The oxygenation system was restarted on August 16, 1995.
- Blaine Tech Services, Inc. (BTS) of San Jose, California measured ground water depths and collected water samples from the site wells (Figures 1 and 2).
 BTS' report describing these sampling activities and presenting analytic results for ground water is included as Attachment A.
- WA compiled the ground water elevation and analytic data (Tables 1 and 2) prepared a map showing ground water elevations and benzene concentrations (Figure 2), and tabulated ground water dissolved oxygen levels (Table 3).



eva chu October 5, 1995

Weiss Associates

Anticipated Fourth Quarter 1995 Activities:

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

Conclusions and Recommendations:

WA recommends continued ground water sampling according to the frequencies described in our second quarter 1994 report. These sampling frequencies include sampling MW-1 and S-1 annually for total petroleum hydrocarbons as gasoline (TPH-G), benzene, ethylbenzene, toluene and xylenes (BETX) and halogenated volatile organic compounds (HVOCs) and sampling MW-2 and MW-3 quarterly for TPH-G, BETX and HVOCs. This frequency is sufficient to monitor hydrocarbon and dissolved oxygen concentrations, and the ground water flow direction at the site.

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Please call if you have any questions.

No. EG 1576 CERTIFIED

ENGINEERING

Sincerely,

Weiss Associates

Grady Glasser Technical Asst.

James W. Carmody, C.E.G. Senior Project Hydrogeologist

Attachments:

A - BTS Associates' Ground Water Monitoring Report

Jeff Granberry, Shell Oil Products Company, P.O. Box 4023, Concord, California 94524 cc: Brad Boschetto, Shell Oil Products Company, P.O. Box 4848, Anaheim, CA 92803

John Jang, Regional Water Quality Control Board - San Francisco Bay, 2101 Webster Street, Suite 500, Oakland,

California 94612

GSG/JWC:all JASHELL VOASANQAA 950 TA 950 JR. DOC

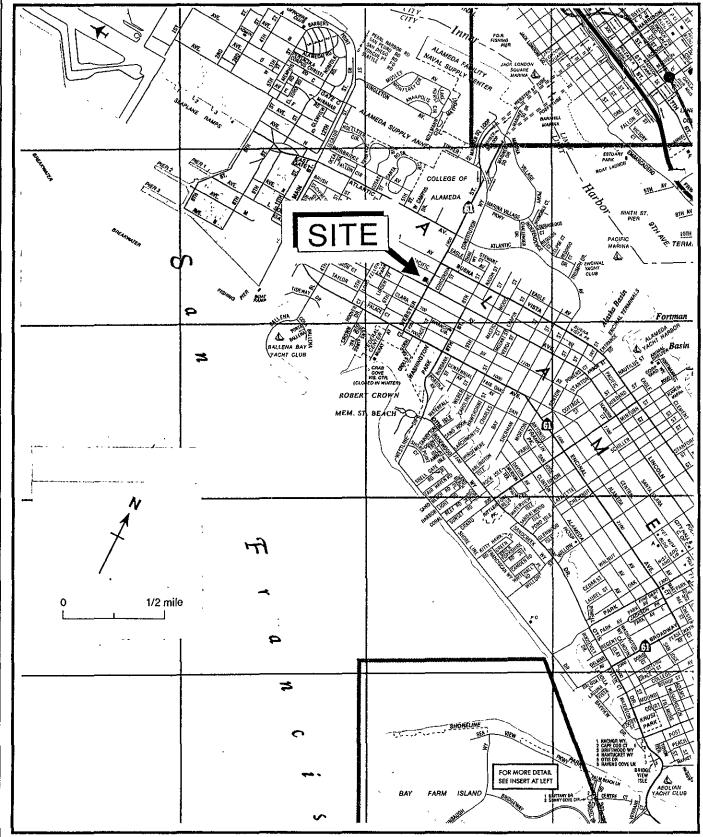


Figure 1. Site Location Map - Shell Service Station, WIC# 204-0072-0403, 1601 Webster Street, Alameda, CA



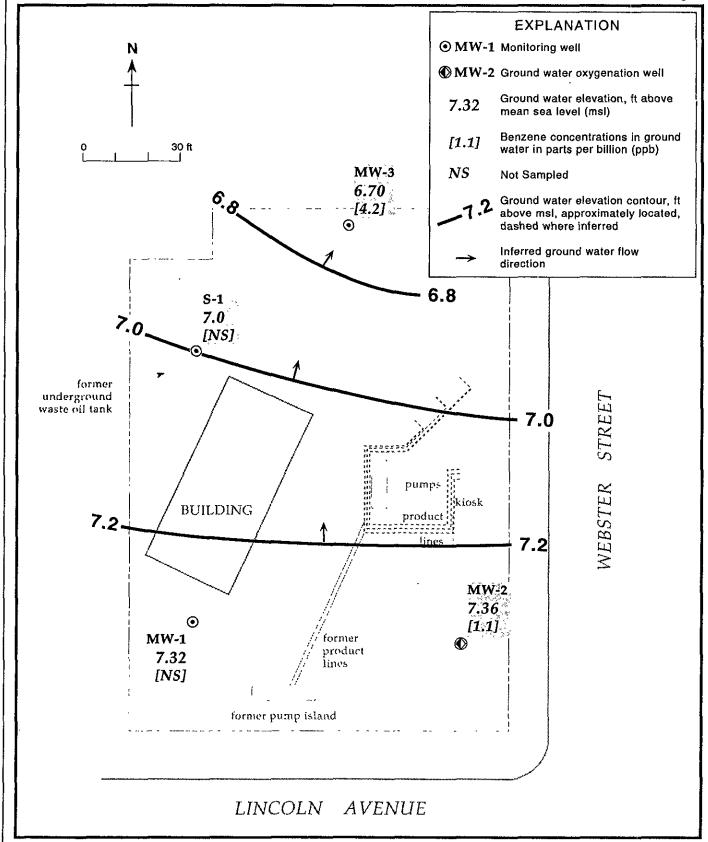


Figure 2. Monitoring Well Locations, Ground Water Elevation Contours and Benzene Concentrations in Ground Water - July 12, 1995 - Shell Service Station WIC #204-0072-0403, 1601 Webster Street, Alameda, California

Table 1. Ground Water Elevations - Shell Service Station WIC #204-0072-0403, 1601 Webster Street Alameda, California

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
MW-1	04/11/90	13.80	8.22	5.58
	07/18/90	20,00	9.14	4.66
	10/18/90		10.37	3.43
	01/25/91		10.41	3.39
	04/11/91		7.37	6.43
	07/18/91		8.86	4,94
	10/17/91		10.47	3.33
	01/24/92		9.18	4.62
	04/23/92		6.95	6.85
	07/22/92		8.01	5.79
	10/02/92		9.81	3.99
	01/05/93		7.26	6.54
	04/08/93	13.80 ^a	5.85	7.95
	07/20/93	13.00	6.83	6.97
	10/15/93		8.07	5.73
	01/07/94		7.82	5.98
	04/13/94		6.91	6.89
	07/26/94		7.51	6.29
	10/06/94		8.71	5.09
	01/26/95		5.43	8.37
	04/20/95		5.50	8.30
	07/12/95		6.48 %	7.32
MW-2	04/11/90	13.20	7.69	5.51
	07/18/90		8.56	4.64
	10/18/90		9.76	3.44
	01/25/91		9.78	3.42
•	04/11/91		6.87	6.33
	07/18/91		8.27	4.93
	10/17/91		9.89	3.31
	01/24/92		8.60	4.60
	04/23/92	•	6.48	6.72
	07/02/92		7.37	5.83
	10/02/92		9.20	4.00
	01/05/93		6.80	6.40
	04/08/93	13.20ª	5.40	7.80
	07/20/93	13,20	6.05	7.15
	10/15/93		7.04	6.16
	01/07/94		6.99	6.21
	04/13/94		6.20	7.00
			6.63	6.57
	07/26/94			

Table 1. Ground Water Elevations - Shell Service Station WIC #204-0072-0403, 1601 Webster Street Alameda, California (continued)

		Top-of-Casing Elevation	Depth to Water	Ground Water Elevation
Well ID	Date	(ft above msl)	(ft)	(ft above msl)
	01/26/95		4.49	8.7 1
	04/20/95		5.28	7.92
	07/12/95		5.84	7.36
MW-3	04/08/93	12.80	5.48	7.32
	07/20/93		6.38	6.42
	10/15/93		7.53	5.27
	01/07/94		7.38	5.42
	04/13/94		6.50	6.30
	07/26/94		7.00	5.80
	10/06/94		8.10	4.70
	01/26/95		5.00	7.80
	04/20/95		5.24	7.56
	07/12/95		6.10	6.70 H () () () ()
S-1	09/11/89	13.77	9.82	3.95
	04/11/90		8.41	5.36
	07/18/90		9.31	4.46
	10/18/90		10.43	3.34
	01/25/91		10.49	3.28
	04/11/91		7.68	6.09
	07/18/91		8.95	4.82
	10/17/91		10.62	3.15
	01/24/92		9.32	4.45
	04/23/92		7.27	6.50
	07/02/92		8.19	<i>5.5</i> 8
	10/02/92		9.95	3.82
	01/05/93		7.64	6.13
	04/08/93	13.74 ^a	6.10	7.64
	07/20/93		7.18	6.56
	10/15/93		8.39	5.35
	01/07/94		8.19	5.55
	04/13/94		7.22	6.52
	07/26/94		7.82	5.92
	10/06/94		9.01	4.73
	01/26/95		5.65	8.09
	04/20/95		6.82	6.92
	07/12/95		6.74	7.00

Notes:

a = Top of casing resurveyed on March 30, 1993

Well ID and Sample	Date	Depth to	TPH-G	TPH-D	В	E	Т	x	c-1,2- DCE	1,2-DCA	TOG	DO (mg/l)
Frequency	Sampled	Water (ft)	<u> </u> ←				parts pe	r billion (μ	g/L)			<u> </u>
						_						
MW-I	04-11-90	8.22	< 50	<50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<10,000	
(Annually,	07-18-90	9.14	< 50		<0.5	< 0.5	< 0.5	< 0.5	3	< 0.5	<5,000	
1st Qtr.)	10-18-90	10.37	< 50	_	< 0.5	< 0.5	< 0.5	< 0.5	7.9	<0.5	<5,000	
	01-25-91	10.41	< 50		<0.5	< 0.5	< 0.5	< 0.5	5.6	< 0.5		
	04-11-91	7.37	< 50		< 0.5	< 0.5	< 0.5	< 0.5	0.9	< 0.5		
	07-18-91	8.86	< 50		< 0.5	< 0.5	< 0.5	< 0.5	4.4	<0.5		
	10-17-91	10.47	< 50		<0.5	< 0.5	< 0.5	< 0.5	7.2	< 0.5		
	01-24-92	9.18	< 50		< 0.5	< 0.5	< 0.5	< 0.5	1.4	< 0.5		
	04-23-92	6.95	< 50		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		
	07-02-92	8.01	< 50		<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		
	10-02-92	9.81	<50		< 0.5	< 0.5	< 0.5	< 0.5	2	< 0.5		
	01-05-93	7.26	< 50		`<0 <i>,</i> 5	< 0.5	< 0.5	< 0.5	2	< 0.5		
	04-08-93ª	5.85	< 50		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		
	07-20-93 ⁶	6.83	< 50		< 0.5	< 0.5	< 0.5	< 0.5	0.76	< 0.5		
	10-15-93	8.07	< 50		< 0.5	< 0.5	< 0.5	< 0.5	0.71	< 0.5		
	01-07-94	7.82	< 50		< 0.5	< 0.5	< 0.5	< 0.5	3.1	0.85		5.3
	04-13-94	6.91	< 50		< 0.5	< 0.5	< 0.5	< 0.5	3.6	0.95		
	07-26-94	7.5 1	< 50		< 0.5	< 0.5	< 0.5	< 0.5	< 0.4	< 0.4		2.8
	10-06-94 ^c	8.71	< 50		< 0.5	< 0.5	< 0.5	< 0.5	<0.4	<0.4		4.0
	04/20/95	5.50	<50		<0.5	<0.5	<0.5	< 0.5	<0.4	< 0.4		
MW-2	04-11-90	7.69	580	430	20	1.2	4.9	73	<0.5	1.1	<10,000	
(Quarterly)	07-18-90	8.56	1,400		110	71	310	310	< 0.5	0.7	< 5,000	
(10-18-90	9.76	1,900	$1,300^{d}$	110	89	470	400	< 0.5	0.9	<5,000	
	01-25-91	9.78	8,100		430	480	1,200	2,600	< 0.5	0.8		
	04-11-91	6.87	2,600		130	250	150	330	< 0.5	< 0.5		
	07-15-91	8.27	1,300		100	84	59	120	< 0.5	0.8		
	10-17-91	9.89	2,100		180	150	260	520	<0.5	0.6		
	01-24-92	8.60	7,100		450	960	450	1,600	110	<0.5		
	04-23-92	6.48	16,000		320	650	740	2,600	<2.5	<2.5		
	07-02-92	7.37	33,000		2,500	2,000	3,700	9,600	<50	<50		
	10-02-92	9.20	7,000	-	960	570	650	1,200	<50	<50		
	01-05-93	6.80	8,900		550	600	500	1,900	<2	<2		

Analytic Results for Ground Water - Shell Service Station, WIC #204-0072-0403, 1601 Webster Street, Alameda, California

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Table 2.

able 2.	Analytic Res (continued)	sults for Grou	nd Water - S	Shell Servi	ice Station	, WIC #2	04-0072-04	1601 V	Vebster St	reet, Alameda	a, California	l.
Well ID and Sample	Date	Depth to	TPH-G	TPH-D	В	E	T	X	c-1,2- DCE	1,2-DCA	TOG	DO (mg/l)
Frequency	Sampled	Water (ft)					parts per	r billion (με	3/L)			
	04-08-93	5.40	13,000		670	900	580	2,900	0.68	<0.5		
	04-08-93 ^{dup}	5.40	13,000		830	1,100	740	3,700	0.64	<0.5		
	07-20-93	6.05	10,000		1,200	1,100	630	4,000	0.87	< 0.5		
	07-20-93 ^{dup}	6.05	12,000		1,200	1,100	600	3,800	0.80	< 0.5		
	10-15-93	7.04	24,000		1,400	1,200	3,400	5,200	<0.5	< 0.5		
	10-15-93 ^{dup}	7.04	19,000		1,200	1,000	2,800	4,400	<0.5	<0.5		
	01-07-94	6.99	27,000		1,300	1,900	2,700	7,900	< 10	<10		
	01-07-94 ^{dup}	6.99	33,000		1,100	1,700	2,300	6,900	<10	<10		
	04-13-94	6.20	16,000		460	820	93	2,700	<25	<25		3.6
	04-13-94 ^{dup}	6.20	18,000		500	880	100	3,000	<25	<25		5.0
	07-26-94	6.63	25,000		1,600	1,500	1,500	6,800	< 0.4	< 0.4		3.2
	07-26-94 ^{dup}	6.63	28,000		1,700	1,600	1,600	7,300	<0.4	<0.4		3.2
	10-06-94	7.75	15,000		•	-	,	•				
	10-00-94 dup	7.75 7.75			850	1,000	650	4,000	<0.4	< 0.4	-	2.4
-			17,000		1000	1,200	630	4,500	< 0.4	< 0.4		1.6
	01-26-95	4.49	3,200		63	300	14	1,000	<0.4	< 0.4		
	01-26-95 dup	4.49	3,100		31	140	13	820	< 0.4	< 0.4		
	04/20/95	5.28	< 50		4.4	1.3	< 0.5	3.3	< 0.4	< 0.4		
	04/20/95 ^{dup}	5.28	<50		0.5	0.6	<0.5	3.3	< 0.4	< 0.4		
	07/12/95	5.84	<50		: 1.1	< 0.5	1.1	∴ <0.5	-	المستوالية المستوالية	س شه قر د وه د د	10.4
	07/12/95 thep	5.84	< 50	****	0.9	<0.5	0,8	<0.5	: *****	-	, 111 -,	10.4
MW-3	02-25-93	5.37	58	140	< 0.5	2.5	< 0.5	6.4	<0.5	1.5	<5,000	
(Quarterly)	04-08-93	5.48	< 50		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		
• • • • • • • • • • • • • • • • • • • •	07-20-93 ^e	6.38	< 50		1.2	< 0.5	< 0.5	< 0.5	<0.5	2.8		
	10-15-93 ^f	7.53	60		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.55		
	01-07-94	7.38	74		< 0.5	< 0.5	< 0.5	0.76	< 0.5	0.91	===	4.6
	04-13-94	6.50	<50		< 0.5	< 0.5	< 0.5	< 0.5	<1.3	<1.3		
	07-26-94	7.00	750 ^g		< 0.5	< 0.5	<0.5	< 0.5	<0.4	< 0.4		1.7
	10-06-94	8.10	1,900 ^g		<0.5	<0.5	<0.5	<0.5	< 0.4	<0.4		3.0

Weiss Associates

Weil ID and Sample	Date	Depth to	TPH-G	TPH-D	В	E	Т	x	c-1,2- DCE	1,2-DCA	TOG	DO (mg/l
Frequency	Sampled	Water (ft)	_				parts per	billion (μ	g/L)			
	01-26-95	5.00	580 ^g		< 0.5	< 0.5	<0.5	1.3	< 0.4	< 0.4		1.3
	04/20/95	5.24	<50		< 0.5	< 0.5	<0.5	< 0.5	< 0.4			1.2
	07/12/95	6.10	50	·	4.2	< 0.5	2.9	0.3	< 0.4 	<0.4 —		7.2
0.1	00 04 00h		•	• •	•	•	,					
S-1	09-04-87 ^h				<5	<5	<5	<5	< 0.5	< 0.5		
(Annually,	09-11-89 ^t	9.82	< 50	< 100	< 0.5	<1	<1	<3	< 0.5	< 0.5	<1,000	
1st Qtr.)	04-11-90	8.41	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<10,000	
	07-18-90	9.31	< 50		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<5,000	
	10-18-90	10.43	< 50		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<5,000	
	01-25-91	10.49	< 50		< 0.5	< 0.5	< 0.5	< 0.5		-		
	04-11-91	7.68	< 50		< 0.5	< 0.5	< 0.5	< 0.5				
	07-18-91	8.95	< 50		< 0.5	< 0.5	< 0.5	< 0.5				
	10-17-91	10.62	< 50		< 0.5	< 0.5	< 0.5	<5				
	01-24-92	9.32	< 50		< 0.5	< 0.5	< 0.5	< 0.5				
	04-23-92	7.27	< 50		< 0.5	< 0.5	< 0.5	< 0.5	- 			
	07-02-92	8.19	<50		< 0.5	< 0.5	< 0.5	< 0.5				
	10-02-92	9.95	< 50		< 0.5	< 0.5	< 0.5	< 0.5				
	01-05-93	7.64	< 50		< 0.5	< 0.5	< 0.5	< 0.5				
	04-08-93	6.10	< 50		< 0.5	< 0.5	< 0.5	< 0.5				
	07-20-93	7.18	< 50		< 0.5	< 0.5	< 0.5	< 0.5				
	10-15-93	8.39	< 50		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		
	01-07-94	8.19	< 50		< 0.5	< 0.5	< 0.5	< 0.5				6.
	04-13-94	7.22	< 50		< 0.5	< 0.5	< 0.5	< 0.5				
	07-26-94	7.82	< 50		< 0.5	< 0.5	< 0.5	< 0.5				2.
	10-06-94	9.01	< 50		< 0.5	< 0.5	< 0.5	< 0.5	< 0.4	< 0.4		6.0
	04/20/95	6.82	< 50		< 0.5	<0.5	<0.5	<0.5				
ruin.	07.10.00											
[rip	07-18-90		< 50		< 0.5	< 0.5	< 0.5	< 0.5				
Blank	10-18-90		< 50		< 0.5	< 0.5	< 0.5	< 0.5				
	01-25-91		< 50		< 0.5	< 0.5	< 0.5	0.8				
	04-11-91		< 50		< 0.5	< 0.5	< 0.5	< 0.5				

Analytic Results for Ground Water - Shell Service Station, WIC #204-0072-0403, 1601 Webster Street, Alameda, California

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Table 2.

(continued)

Table 2. Analytic Results for Ground Water - Shell Service Station, WIC #204-0072-0403, 1601 Webster Street, Alameda, California (continued)

Well ID and

Well ID and Sample	Date	Depth to	TPH-G	TPH-D	В	E	Т	X	c-1,2- DCE	1,2-DCA	TOG	DO (mg/l)
Frequency	Sampled	Water (ft)	<u> </u>				parts per	billion (με	g/L)——			
								- ""				
	07-18-91		< 50		< 0.5	< 0.5	< 0.5	<0.5				
	10-17 - 91		< 50		< 0.5	< 0.5	< 0.5	< 0.5				
	01-24-92		< 50		< 0.5	< 0.5	< 0.5	< 0.5				
	04-23-92		< 50		< 0.5	< 0.5	< 0.5	< 0.5				
	07-02-92		< 50		< 0.5	< 0.5	< 0.5	< 0.5	 -			
	10-02-92		< 50		< 0.5	< 0.5	< 0.5	< 0.5				
	01-05-93		< 50		< 0.5	< 0.5	< 0.5	< 0.5				
	04-08-93		< 50		< 0.5	< 0.5	< 0.5	< 0.5				
	07-20-93		< 50		< 0.5	< 0.5	< 0.5	< 0.5				
	10-15-93		< 50		< 0.5	< 0.5	< 0.5	< 0.5		Bê sêrese		
	01-07-94		< 50		< 0.5	< 0.5	< 0.5	< 0.5				
	04-13-94		< 50		< 0.5	< 0.5	< 0.5 ^j	< 0.5				
	07-26-94		< 50		< 0.5	< 0.5	< 0.5	< 0.5				
	10-06-94		< 50		< 0.5	< 0.5	< 0.5	< 0.5				
	01-26-95		< 50		< 0.5	< 0.5	< 0.5	< 0.5				
	04/20/95		<50		< 0.5	< 0.5	< 0.5	< 0.5				
	07/12/95		<50	ا پېداد	<0.5	₹0.5				2 2 2		<i>f</i> .
	•		'- '			• :- :	. 1777. •	,, ,		•	* .*	
OTSC MCLs			NE	NE	1	680	100 ^k	1,750	6.0	0.5	NE	

Table 2.

Analytic Results for Ground Water - Shell Service Station, WIC #204-0072-0403, 1601 Webster Street, Alameda, 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

B = Benzene by EPA Method 602, 624, or 8020

E = Ethylbenzene by EPA Method 602, 624, or 8020

T = Toluene by EPA Method 602, 624, or 8020

X = Xylenes by EPA Method 602, 624, or 8020

c-1,2-DCE = cis-1,2-dichloroethene by EPA Method 601 or 624

1,2-DCA = 1,2-dichloroethane by EPA Method 601 or 624

TOG = Total non-polar oil and grease by American Public Health Association Standard Method 503E

< n =Not detected at detection limit of n ppb

DTSC MCL = California Department of Toxic Substances Control maximum contaminant level for drinking water

NE = Not established

--- = Not analyzed/measured

dup = Duplicate sample

DO = Dissolved Oxygen in mg/L

Notes:

- a = Chloroform detected at 0.0071 ppm by EPA Method 8010
- b = Chloroform detected at 1.1 ppb by EPA Method 8010
- c = Trichloroethylene detected at 1.7ppb.
- d = Compounds detected and calculated as diesel appear to be the less volatile constituents of gasoline
- e = Chloroform detected at 1.5 ppb by EPA Method 8010
- f = Chloroform detected at 3.6 ppb by Method 8010
- g = The result for Gasoline in and unknown hydrocarbon which consists of a single peak.
- $h=0.12\ ppm$ acetone detected by EPA Method 624; no other volatile organic compounds detected
- i = Metals detected by EPA Method 6010; 0.020 ppm chromium, 0.060 ppm lead and 0.030 ppm zinc; no cadmium detected above detection limit of 0.010 ppm; no PCBs or semi-volatile compounds detected by EPA Method 625
- j = 0.54 ppb Toluene detected in equipment blank
- k = DTSC recommended action level for drinking water; MCL not established

Table 3. Ground Water Oxygenation at Shell Service Station WIC # 204-0072-0403, 1601 Webster Street, Alameda, California

Well ID	Date	Dissolved Oxygen ^a (mg/l)	Flow Rate (scfm)
MW-1	01/07/94	5.5	. 0
	07/26/94	2.8	0
	10/06/94	4	0
	01/26/95	b	0
	04/10/95	6.2	0
	05/11/95	6.2	0
	06/14/95	4.4	0
	07/07/95	3.5	0
	07/12/95	<u>·</u> b	0
	08/16/95	3.4	0
	09/12/95	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
MW-2	01/07/94	3.6	0
	07/26/94	3.2	0
	10/06/94	2.4	0
	01/26/95	1.6	0
	04/10/95	10	0.75
	05/11/95	10	0.67
	06/14/95	10.1	0.33
	07/07/95	10.7	0.17
	07/12/95	10.4	
	08/16/95	6.9	
	09/12/95	9.2	0.17
MW-3	01/07/94	4.6	0
	07/26/94	1.7	0
	10/06/94	3	0
	01/26/95	1.3	0
	04/10/95	2	0
	05/11/95	4.6	0
	06/14/95	2.1	0 .
	07/07/95	1.3	0
	07/12/95	7.2	0
	08/16/95		0
	09/12/95	0.6	

Table 3. Ground Water Oxygenation at Shell Service Station WIC # 204-0072-0403, 1601 Webster Street, Alameda, California (continued)

Well ID	Date	Dissolved Oxygen ^a (mg/l)	Flow Rate (scfm)
S-1	01/07/94	6.8	0
	07/26/94	2.6	0
	10/06/94	6	0
	01/26/95	b	0
	04/10/95	7.8	0
	05/11/95	6.4	0
	06/14/95	5.4	0
	07/07/95	5.2	0
	07/12/95	b	0
	08/16/95	6.1	0
	09/12/95		

Notes:

]-luha#0434\qm\95q3\95q3x3 dos

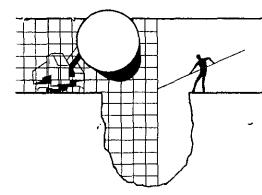
a = Ground water oxygenation started on 3/2/95

b = --- Not measured



ATTACHMENT A

BTS GROUND WATER MONITORING REPORT



BLAINE TECH SERVICES INC.

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

July 26, 1995

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

Attn: Daniel T. Kirk

SITE: Shell WIC #204-0072-0403 1601 Webster Street Alameda, California

QUARTER: 3rd quarter of 1995

QUARTERLY GROUNDWATER SAMPLING REPORT 950712-G-2

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 may be obtained 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.

Fichard C. Blaine

RCB/lp

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 (feet)	VOLUME OF IMMISCIBLES REMOVED (ml)	DEPTH TO WATER (feet)	DEPIH TO WELL BOTTOM (feet)
MW-1 MW-2 *	7/12/95 7/12/95	TOC TOC	- -	NONE NONE	 		6.48 5.84	20.74 19.21
MW-3 S-1	7/12/95 7/12/95	TOC TOC	 	NONE NONE		-	6.10 6.74	19.37 19.74

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

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Shell Engineer:				Phone 575-6	No.:	(510)]							İ					Quarterly Monitoring	1441	24 hours		
Dan Kirk				Fax #:	675-	6160													Size Investigation] sun	44 hours	_	
Consullant Name & A Blaine Tech Serv	/ices,	Inc.										8020			•				Soll Closelly/Disposal] 5112		_	_
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Printed Name: GY	2AN	TM	OHK	,			∢	(EPA 8	\ Y A	0	Test for Disposal	t			so	Container Size	Preparation Used	Сотроян	MATERIAL	j	SAN	APLE .	
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MW3				K		6						d						 i		-			
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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: 07/20/1995

NET Client Acct. No: 1821

NET Job No: 95.02732 Received: 07/14/1995

Client Reference Information

Shell 1601 Webster Street, Alameda, CA/950712-G2

Sample analysis in support of the project referenced above has been completed and results are presented on 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 welcome to contact Client Services.

Approved by:

Ken Larson

Division Manager

Jennifer L. Roseberry Project Manager

Enclosure(s)





Client Acct: 1821 ® NET Job No: 95.02732 Date: 07/20/1995

Run

ELAP Cert: 1386

Page: 2

Ref: Shell 1601 Webster Street, Alameda, CA/950712-G2

SAMPLE DESCRIPTION: MW2

Date Taken: 07/12/1995

Time Taken:

NET Sample No: 246124

	1	Reporting			Date	Date	Batch
Results	Flags	Limit	Units	Method	Extracted	Analyzed	No.
1						07/17/1995	3018
ND		50	ug/L	5030/M8015		07/17/1995	3018
						07/17/1995	3018
						07/17/1995	3018
1.1	C	0.5	ug/L	8020		07/17/1995	3018
1.1	С	0.5	ug/L	8020		07/17/1995	3018
ND '		0.5	ug/L	8020		07/17/1995	3018
ND		0.5	ug/L	8020		07/17/1995	3018
						07/17/1995	3018
83			% Rec.	8020		07/17/1995	3018
	1 ND 1.1 1.1 ND ND	Results Flags 1 ND 1.1 C 1.1 C ND ND	1 ND 50 1.1 C 0.5 ND 0.5 ND 0.5	Results Flags Limit Units	Results Flags Limit Units Method 1 ND 50 ug/L 5030/M8015 1.1 C 0.5 ug/L 8020 1.1 C 0.5 ug/L 8020 ND 0.5 ug/L 8020 ND 0.5 ug/L 8020	Results Flags Limit Units Method Extracted 1 ND 50 ug/L 5030/M8015 1.1 C 0.5 ug/L 8020 1.1 C 0.5 ug/L 8020 ND 0.5 ug/L 8020 ND 0.5 ug/L 8020	Results Flags Limit Units Method Extracted Analyzed 1 07/17/1995 ND 50 ug/L 5030/M8015 07/17/1995 07/17/1995 1.1 C 0.5 ug/L 8020 07/17/1995 1.1 C 0.5 ug/L 8020 07/17/1995 ND 0.5 ug/L 8020 07/17/1995 ND 0.5 ug/L 8020 07/17/1995 ND 0.5 ug/L 8020 07/17/1995 07/17/1995 07/17/1995 07/17/1995

 $^{{\}tt C}$: Positive result confirmed by secondary column or ${\tt GC/MS}$ analysis.



Client Acct: 1821 @ NET Job No: 95.02732 Date: 07/20/1995

ELAP Cert: 1386 Page: 3

Ref: Shell 1601 Webster Street, Alameda, CA/950712-G2

SAMPLE DESCRIPTION: MW3

Date Taken: 07/12/1995

NET Sample No: 246125							Run
		Reporting			Date	Date	Batch
Parameter	Results Flags	Limit	Units	Method	Extracted	Analyzed	No.
METHOD 5030/8015-M (Shell)							
DILUTION FACTOR*	1					07/17/1995	3018
Purgeable TPH	50	50	ug/L	5030/M8015		07/17/1995	3018
Carbon Range: C6 to C12						07/17/1995	3018
METHOD 8020 (GC, Liquid)						07/17/1995	3018
Benzene	4.2	0.5	ug/L	8020		07/17/1995	3018
Toluene	2.9	0.5	ug/L	8020		07/17/1995	3018
Ethylbenzene	ND	0.5	ug/L	8020		07/17/1995	3018
Xylenes (Total)	0.9	0.5	ug/L	8020		07/17/1995	3018
SURROGATE RESULTS						07/17/1995	3018
Bromofluorobenzene (SURR)	72		% Rec.	8020		07/17/1995	3018



Client Acct: 1821 @ NET Job No: 95.02732

Date: 07/20/1995 ELAP Cert: 1386

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Ref: Shell 1601 Webster Street, Alameda, CA/950712-G2

SAMPLE DESCRIPTION: EB

Date Taken: 07/12/1995

NET Sample No: 246126							Run
		Reporting			Date	Date	Batch
Parameter	Results Flag	s Limit	Units	Method	Extracted	Analyzed	No.
METHOD 5030/8015-M (Shell)							
DILUTION FACTOR*	1					07/17/1995	3018
Purgeable TPH	ND	50	ug/L	5030/M8015		07/17/1995	3018
Carbon Range: C6 to C12						07/17/1995	3018
METHOD 8020 (GC, Liquid)						07/17/1995	3018
Benzene	ND	0.5	ug/L	8020		07/17/1995	3018
Toluene	ND	0.5	ug/L	8020		07/17/1995	3018
Ethylbenzene	ND .	0.5	ug/L	8020		07/17/1995	3018
Xylenes (Total)	ND	0.5	ug/L	8020		07/17/1995	3018
SURROGATE RESULTS						07/17/1995	3018
Bromofluorobenzene (SURR)	76		% Rec.	8020		07/17/1995	3018



Client Acct: 1821 ® NET Job No: 95.02732

Date: 07/20/1995 ELAP Cert: 1386

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Ref: Shell 1601 Webster Street, Alameda, CA/950712-G2

SAMPLE DESCRIPTION: DUP

Date Taken: 07/12/1995

							Run
	1	Reporting			Date	Date	Batch
Results	Flags	Limit	<u>Units</u>	Method	_Extracted	Analyzed	No.
1						07/17/1995	3018
ND		50	ug/L	5030/M8015		07/17/1995	3018
						07/17/1995	3018
						07/17/1995	3018
0.9	С	0.5	ug/L	8020		07/17/1995	3018
0.8	C	0.5	ug/L	8020		07/17/1995	3018
ND		0.5	ug/L	8020		07/17/1995	3018
ND		0.5	ug/L	8020		07/17/1995	3018
						07/17/1995	3018
82			% Rec.	8020		07/17/1995	3018
	1 ND 0.9 0.8 ND ND	Results Flags 1 ND 0.9 0.8 C ND ND	1 ND 50 0.9 C 0.5 ND 0.5 ND 0.5	Results Flags Limit Units 1 ND 50 ug/L 0.9 C 0.5 ug/L 0.8 C 0.5 ug/L ND 0.5 ug/L ND 0.5 ug/L	Results Flags Limit Units Method 1 ND 50 ug/L 5030/M8015 0.9 C 0.5 ug/L 8020 0.8 C 0.5 ug/L 8020 ND 0.5 ug/L 8020 ND 0.5 ug/L 8020 ND 0.5 ug/L 8020	Results Flags Limit Units Method Extracted	Results Flags Limit Units Method Extracted Analyzed 1 07/17/1995 07/17/1995 07/17/1995 07/17/1995 07/17/1995 07/17/1995 07/17/1995 0.9 C 0.5 ug/L 8020 07/17/1995 0.8 C 0.5 ug/L 8020 07/17/1995 ND 0.5 ug/L 8020 07/17/1995 ND 0.5 ug/L 8020 07/17/1995 07/17/1995 07/17/1995 07/17/1995

 $^{{\}tt C}$: Positive result confirmed by secondary column or ${\tt GC/MS}$ analysis.



Client Acct: 1821 (NET Job No: 95.02732

Date: 07/20/1995 ELAP Cert: 1386

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Ref: Shell 1601 Webster Street, Alameda, CA/950712-G2

SAMPLE DESCRIPTION: TB

Date Taken: 07/12/1995

NET Sample No: 246128								Run
			Reporting			Date	Date	Batch
Parameter	Results	Flags	Limit	Units	Method	Extracted	<u>Analyzed</u>	No.
METHOD 5030/8015-M (Shell)							٠	
DILUTION FACTOR*	1						07/17/1995	3018
Purgeable TPH	ND		50	ug/L	5030/M8015		07/17/1995	3018
Carbon Range: C6 to C12							07/17/1995	3018
METHOD 8020 (GC, Liquid)							07/17/1995	3018
Benzene	ND		0.5	ug/L	8020		07/17/1995	3018
Toluene	ND		0.5	ug/L	8020		07/17/1995	3018
Ethylbenzene	ND		0.5	ug/L	8020		07/17/1995	3018
Xylenes (Total)	ND		0.5	ug/L	8020		07/17/1995	3018
SURROGATE RESULTS							07/17/1995	3018
Bromofluorobenzene (SURR)	81			% Rec.	8020		07/17/1995	3018



Client Name: Blaine Tech Services Date: 07/20 Date: 07/20/1995

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Ref: Shell 1601 Webster Street, Alameda, CA/950712-G2

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

		CCV	ccv				
	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	110.0	0.55	0.50	mg/L	07/17/1995	tts	3018
Benzene	97.6	4.88	5.00	ug/L	07/17/1995	tts	3018
Toluene	91.8	4.59	5.00	ug/L	07/17/1995	tts	3018
Ethylbenzene	103,4	5.17	5.00	ug/L	07/17/1995	tts	3018
Xylenes (Total)	100.7	15.1	15.0	ug/L	07/17/1995	tts	3018
Bromofluorobenzene (SURR)	83.0	83	100	% Rec.	07/17/1995	tts	3018

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

Client Acct: 1821 NET Job No: 95.02732 Date: 07/20/1995 ELAP Cert: 1386

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Ref: Shell 1601 Webster Street, Alameda, CA/950712-G2

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	07/17/1995	tts	3018
Benzene	ND	0.5	ug/L	07/17/1995	tts	3018
Toluene	ND	0.5	ug/L	07/17/1995	tts	3018
Ethylbenzene	ND	0.5	ug/L	07/17/1995	tts	3018
Xylenes (Total)	ND	0.5	ug/L	07/17/1995	tts	3018
Bromofluorobenzene (SURR)	84		% Rec.	07/17/1995	tts	3018

Client Name: Blaine Tech Services Client Acct: 1821 ® NET Job No: 95.02732

Date: 07/20/1995

ELAP Cert: 1386

Ref: Shell 1601 Webster Street, Alameda, CA/950712-G2

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

	Matrix Spike	Matrix Spıke Dup		Spike	Sample	Matrix Spike	Matrix Spike Dup.	ζ	Date	Run	Sample
Parameter	% Rec.	% Rec.	RPD	Amount	Conc.	Conc.	Conc.	Units	Analyzed	Batch	Spiked
METHOD 5030/8015-M (Shell)											245763
Purgeable TPH	102.0	116.0	12.8	0.5	ND	0.51	0.58	mg/L	07/17/1995	3018	245763
Benzene	88.8	99.1	11.0	10.8	ND	9.59	10.7	ug/L	07/17/1995	3018	245763
Toluene	94.5	110.1	15.1	32.6	ND	30.8	35.9	ug/L	07/17/1995	3018	245763



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).

wec-weight pasts (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.

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

COOLER RECEIPT FORM

Project:	950712-G2		Log No: 757	
Cooler received	on: 1/14/95 a	nd checked on	DECONE VIN	
•		•	gnature)	
Were custody pap	ers present?		YES	NO
Were custody pap	ers properly fi	lled out?	YES	NO
Were the custody	papers signed?		····· YE S	NO
Was sufficient i	ce used?		YES	NOTEMP, 1, 20c.
Did all bottles	arrive in good	condition (unbrol	cen)?YES	NO
Did bottle label	s match COC?		YES	NO
Were proper bott	les used for an	alysis indicated?	YES	NO
Correct preserva	tives used?		YES	NO
		<pre>bubbles?) had bubbles:*</pre>	·····¥ES	ИО
Sample descripto	r:	Number of vials:	•	
				,
				
	——————————————————————————————————————			
				
		s have been set a		.ll not be NO
List here all ot	her jobs receiv	ed in the same co	ooler:	
Client Job #		NET log #		
				

(coolerrec)