Weiss Associates Environmental and Geologic Services

5500 Shellmound Street, Emeryville, CA 94608-2411 Fax: 510-547-5043 Phone: **510-450-6000**

STID
988

March 25, 1996

Scott O. Seery
Alameda County Department
of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502-6577

Re: **First Quarter 1996**
Shell Service Station
1285 Bancroft Avenue
San Leandro, California
WIC #204-6852-0703
WA Job #81-0423-206

Dear Mr. Seery:

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.

First Quarter 1996 Activities:

- Weiss Associates (WA) submitted a soil sampling report for the recent fuel dispenser replacements.
- Blaine Tech Services, Inc. (BTS) of San Jose, California measured ground water depths and collected ground water samples from the site wells (Figures 1 and 2). BTS' report describing these activities and the analytic report for the ground water samples are included as Attachment A.
- WA calculated ground water elevations and compiled the analytic data (Tables 1 and 2, respectively), contoured ground water elevations and plotted benzene concentrations in ground water (Figure 2).

Anticipated Second Quarter 1996 Activities:

- WA will submit a report presenting the results of the second quarter 1996 ground water sampling and ground water depth measurements. The report will include tabulated chemical analytic results, contoured ground water elevations and plotted benzene concentrations in ground water.

Please call if you have any questions or comments.

Sincerely,
Weiss Associates

Grady S. Glasser
Technical Assistant

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

Attachments: A - Ground Water Monitoring Report and Analytic Report

cc: R. Jeff Granberry, Shell Oil Products Company, P.O. Box 4023, Concord, California 94524

GSG/JWC:all
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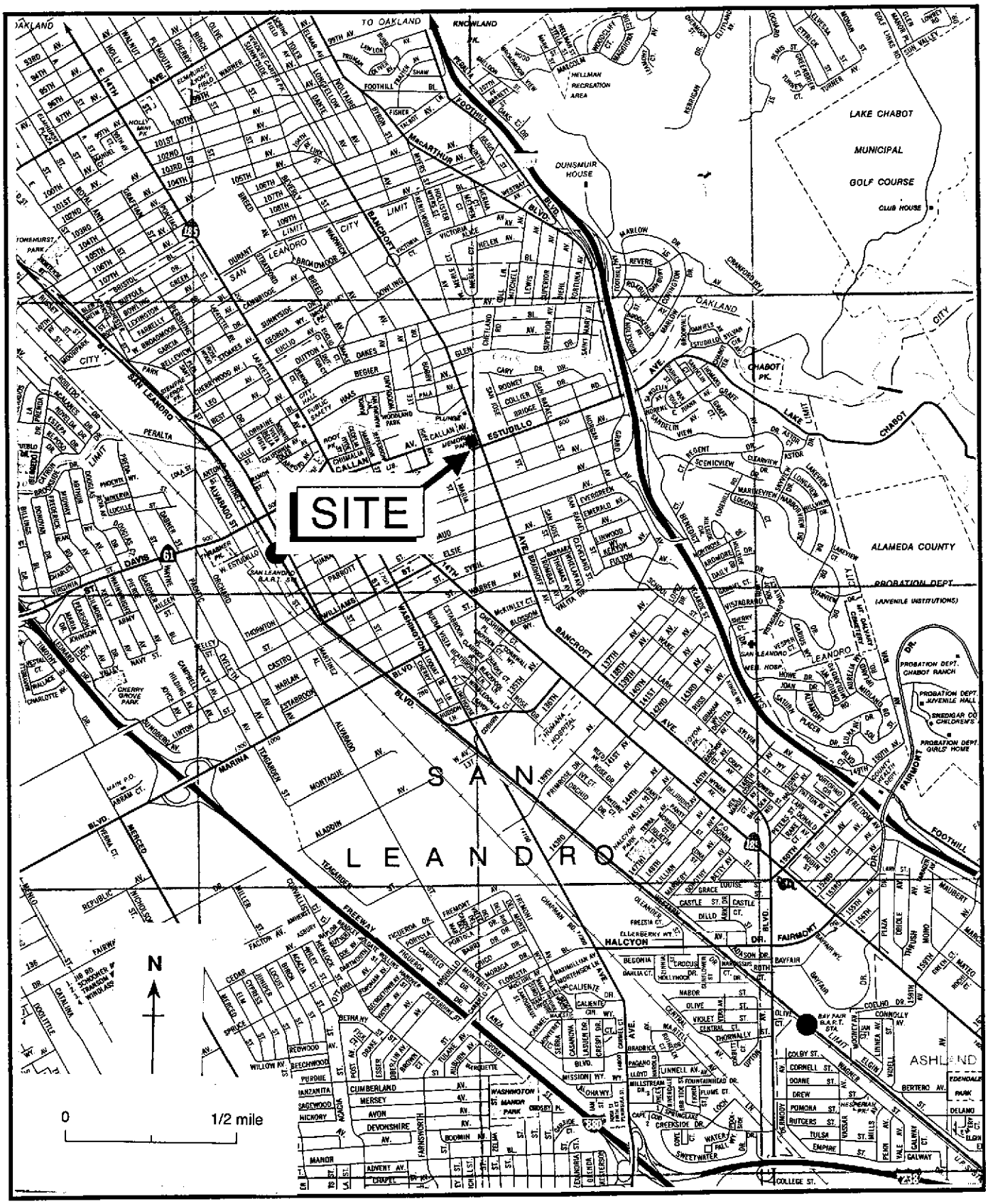
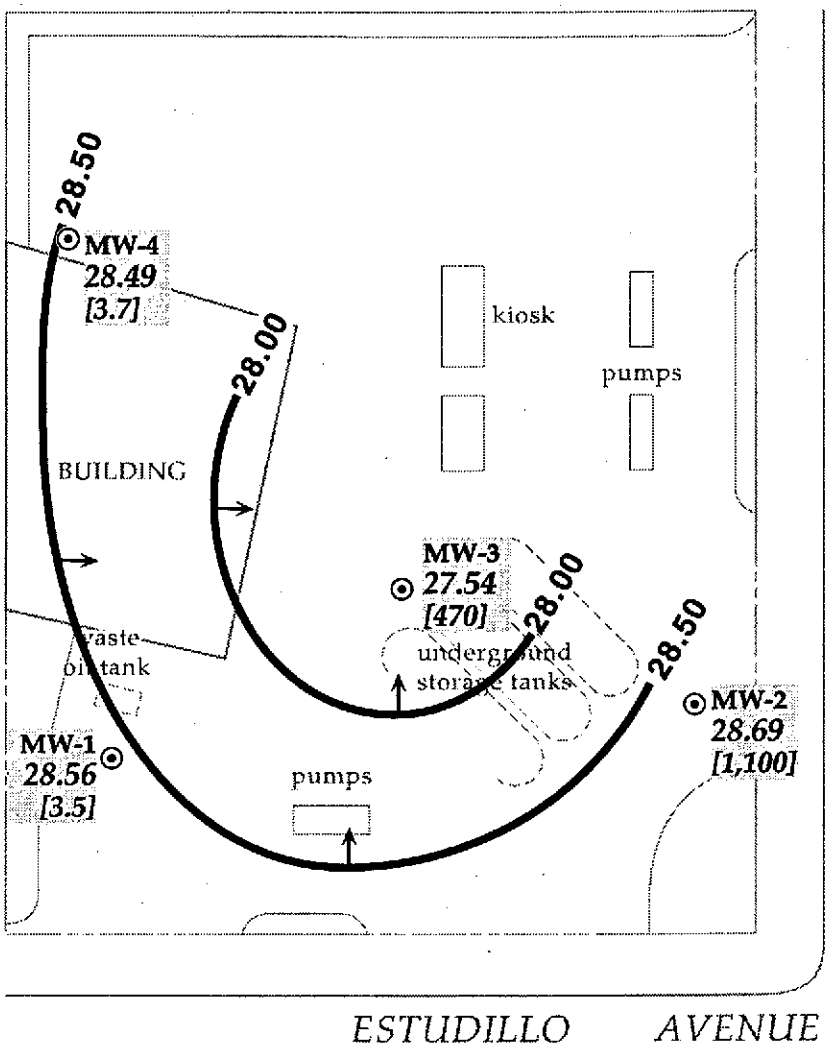


Figure 1. Site Location Map - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

3/16/90



EXPLANATION

⊙ MW-1	Monitoring well
28.56	Ground water elevation, ft above mean sea level (msl)
[3.5]	Benzene concentration in parts per billion (ppb)
28.00	Ground water elevation contour, ft above msl, approximately located, dashed where inferred
→	Inferred ground water flow direction

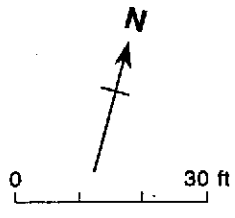


Figure 2. Monitoring Well Locations, Ground Water Elevation Contours and Benzene Concentrations in Ground Water - January 10, 1996 - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

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

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
MW-1	03/13/90	66.29	42.65	23.64
	06/12/90		43.14	23.15
	09/13/90		44.71	21.58
	12/18/90		45.23	21.06
	03/07/91		43.32	22.97
	06/07/91		42.18	24.11
	09/17/91		44.85	21.44
	03/01/92		41.56	24.73
	06/03/92		40.74	25.55
	09/01/92		43.05	23.24
	12/07/92		44.19	22.10
	03/01/93		34.96	31.33
	06/22/93		36.75	29.54
	09/09/93		39.36	26.93
	12/13/93		40.74	25.55
	03/03/94		38.40	27.89
	07/27/94	66.90[a]	40.49	26.41
	08/09/94		40.84	26.06
	10/05/94		41.98	24.92
	11/11/94		41.34	25.56
	12/29/94		42.06	24.84
	01/04/95		39.90	27.00
	04/14/95		31.02	35.88
	07/12/95		34.61	32.29
	12/14/95		39.24	27.66
	01/10/96		**38.34**	**28.56**
MW-2	03/01/92	66.91	41.57	25.34
	06/03/92		40.56	26.35
	09/01/92		42.94	23.97
	12/07/92		44.13	22.78
	03/01/93		34.82	32.09
	06/22/93		36.64	30.27
	09/09/93		39.24	27.67
	12/13/93		40.64	26.27
	03/03/94		38.98	27.93
	07/27/94	66.91[a]	40.40	26.51
	08/09/94		40.71	26.20
	10/05/94		41.89	25.02
	11/11/94		41.22	25.69
	12/29/94		41.99	24.92
	01/04/95		39.81	27.10

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

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
	04/14/95		30.83	36.08
	07/12/95		34.50	32.41
	12/14/95		39.22	27.69
	01/10/96		**38.22**	**28.69**
MW-3	03/01/92	66.31	42.00	24.31
	06/03/92		44.30	22.01
	09/01/92		43.62	22.69
	12/07/92		44.77	21.54
	03/01/93		35.50	30.81
	06/22/93		37.30	29.01
	09/09/93		39.90	26.41
	12/13/93		41.30	25.01
	03/03/94		38.32	27.99
	07/27/94	67.52 [a]	41.07	26.45
	08/09/94		41.37	26.15
	10/05/94		42.55	24.97
	11/11/94		41.86	25.66
	12/29/94		42.59	24.93
	01/04/95		40.54	26.98
	04/14/95		31.50	36.02
	07/12/95		35.14	32.38
	12/14/95		39.86	27.66
	01/10/96		**39.98**	**27.54**
MW-4	07/27/94	68.08	41.78	26.30
	08/09/94		42.09	25.99
	10/05/94		43.25	24.83
	11/11/94		42.54	25.54
	12/29/94		43.34	24.74
	01/04/95		41.57	26.51
	04/14/95		32.24	35.84
	07/12/95		35.88	32.20
	12/14/95		40.54	27.54
	01/10/96		**39.59**	**28.49**

Notes:

a = Top-of-Casing Elevation resurveyed March 29, 1994

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

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	B	E	T	X
			← parts per billion (µg/L) →					
MW-1	09/17/91	44.85	50[a]	160[b]	<0.5	<0.5	<0.5	<0.5
	03/01/92	41.56	<50	<50	<0.5	<0.5	<0.5	<0.5
	06/03/92	40.74	<50	---	0.8	0.9	<0.5	<0.5
	09/01/92	43.05	<50	---	<0.5	5.3	5.8	7.2
	12/07/92	44.19	68	---	<0.5	<0.5	0.8	1.2
	03/01/93	34.96	<50	---	<0.5	<0.5	<0.5	<0.5
	03/01/93[dup]	34.96	<50	---	<0.5	<0.5	<0.5	<0.5
	06/22/93	36.75	<50	---	<0.5	<0.5	<0.5	<0.5
	09/09/93	39.36	200[c]	---	16	2.0	5.2	<0.5
	12/13/93	40.74	89[d]	---	3.4	<0.5	<0.5	<0.5
	03/03/94	38.40	65[d]	---	2.6	<0.5	<0.5	<0.5
	07/27/94	40.49	180	---	30	2.6	1.8	5.0
	07/27/94[dup]	40.49	240	---	25	2.2	2.2	4.0
	10/05/94	41.98	<50	---	<0.3	<0.3	<0.3	<0.6
	01/04/95	39.90	<50	---	2.4	<0.5	<0.5	<0.5
	01/04/95[dup]	39.90	<50	---	2.5	<0.5	<0.5	<0.5
	04/14/95	35.88	<50	---	<0.5	<0.5	0.5	<0.5
	04/14/95[dup]	35.88	<50	---	<0.5	<0.5	<0.5	<0.5
	07/12/95	34.61	<50	---	1.2	<0.5	0.8	<0.5
	12/14/95	39.24	380	---	230	1.1	9.0	49
	01/10/96	**38.34**	**60**	**---**	**3.5**	**<0.5**	**<0.5**	**0.5**
MW-2	03/01/92	41.57	910	<50	11	50	5.2	140
	06/03/92	40.56	1,400	---	33	150	16	240
	09/01/92	42.94	230	---	5.2	15	4.1	19
	09/01/92[dup]	42.94	320	---	5.6	18	5	220
	12/07/92	44.13	240	---	1.5	9.5	1.3	9.9
	12/07/92[dup]	44.13	<50	---	1.7	13	1	12
	03/01/93	34.82	230	---	260	27	310	66
	06/22/93	36.64	220	---	18	3.6	3.4	5.2

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

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	B	E	T	X
			← parts per billion (µg/L) →					
	06/22/93[dup]	36.64	320	---	29	4.2	4.8	6.1
	09/09/93	39.24	260	---	18	16	4.6	12
	09/09/93[dup]	39.24	210	---	16	14	3.9	9.1
	12/13/93	40.64	1,300[c]	---	82	73	34	15
	12/13/93[dup]	40.64	1,400[c]	---	110	72	45	19
	03/03/94	38.98	9,600	---	1,200	390	600	710
	03/03/94[dup]	38.98	10,000	---	930	330	500	590
	07/27/94	40.40	190	---	<0.5	<0.5	1.0	<0.5
	08/09/94	40.71	1,500	---	53.5	46.2	12.4	44.0
	10/05/94	41.89	<485	---	<0.3	<0.3	<0.3	<0.6
	01/04/95	39.81	1,300	---	150	23	35	51
	04/14/95	30.83	5,000	---	1,000	400	340	810
	07/12/95	34.50	4,500	---	440	170	170	290
	07/12/95[dup]	34.50	4,300	---	430	160	160	280
	12/14/95	39.22	37,000	---	1,800	1,000	7,600	6,700
	12/14/95[dup]	39.22	34,000	---	1,800	1,000	6,600	6,500
	01/10/96	**38.22**	**69,000**	**---**	**1,000**	**510**	**3,200**	**3,300**
	01/10/96[dup]	**38.22**	**78,000**	**---**	**1,100**	**560**	**3,500**	**3,600**
MW-3	03/01/92	42.00	<50	<50	<0.5	<0.5	<0.5	<0.5
	06/03/92	44.30	<50	---	<0.5	<0.5	<0.5	<0.5
	09/01/92	43.62	<50	---	<0.5	1.1	<0.5	3.2
	12/07/92	44.77	52	---	<0.5	<0.5	<0.5	0.5
	03/01/93	35.50	<50	---	<0.5	<0.5	<0.5	<0.5
	06/22/93	37.30	<50	---	<0.5	<0.5	<0.5	<0.5
	09/09/93	39.90	50[c]	---	5.0	<0.5	<0.5	<0.5
	12/13/93	41.30	120[d]	---	7.5	1.6	<0.5	6.3
	03/03/94	38.32	<50	---	0.81	<0.5	<0.5	<0.5
	07/27/94	41.07	<50	---	3.5	<0.5	<0.5	<0.5
	10/05/94[e]	42.55	<57	---	<0.3	<0.3	<0.3	<0.6

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

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	B	E	T	X
			← parts per billion (µg/L) →					
	01/04/95	40.54	<50	---	6.0	<0.5	<0.5	<0.5
	04/14/95	31.50	<50	---	<0.5	<0.5	<0.5	<0.5
	07/12/95	35.14	90	---	16	<0.5	<0.5	<0.5
	12/14/95	39.86	4,600	---	460	34	390	1,000
	01/10/96	**39.98**	**11,000**	**—**	**470**	**68**	**460**	**670**
MW-4	07/27/94	41.78	120	---	3.4	0.6	3.9	4.9
	10/05/94[e]	43.25	<50	---	<0.3	<0.3	<0.3	<0.6
	10/05/94[dup]	43.25	<50	---	<0.3	<0.3	<0.3	<0.6
	01/04/95	41.57	<50	---	1.4	<0.5	<0.5	<0.5
	04/14/95	32.24	<50	---	<0.5	<0.5	<0.5	<0.5
	07/12/95	35.88	<50	---	<0.5	<0.5	<0.5	<0.5
	12/14/95	40.54	70	---	0.6	<0.5	<0.5	<0.5
	01/10/96	**39.59**	**280**	**—**	**3.7**	**<0.5**	**1.0**	**0.8**
Bailer Blank	09/01/92		<50	---	<0.5	<0.5	<0.5	1
	12/07/92		<50	---	<0.5	<0.5	<0.5	<0.5
	01/04/95		<50	---	<0.5	<0.5	<0.5	<0.5
	07/12/95		<50	---	0.6	<0.5	0.7	<0.5
	12/14/95		<50	---	<0.5	<0.5	<0.5	<0.5
Trip Blank	09/17/91		<50	---	<0.5	<0.5	<0.5	<0.5
	03/01/92		<50	---	<0.5	<0.5	<0.5	<0.5
	06/03/92		<50	---	<0.5	<0.5	<0.5	<0.5
	09/01/92		<50	---	<0.5	<0.5	<0.5	<0.5
	12/07/92		<50	---	<0.5	<0.5	<0.5	<0.5
	03/01/93		<50	---	<0.5	<0.5	<0.5	<0.5
	06/22/93		<50	---	<0.5	<0.5	<0.5	<0.5
	09/09/93		<50	---	<0.5	<0.5	<0.5	<0.5
	12/13/93		<50	---	<0.5	<0.5	<0.5	<0.5

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

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	B	E	T	X
			← parts per billion (µg/L) →					
	03/03/94		<50	---	<0.5	<0.5	<0.5	<0.5
	07/27/94		<50	---	<0.5	<0.5	<0.5	<0.5
	08/09/94		<500	---	<0.3	<0.3	<0.3	<0.6
	10/05/94		<50	---	<0.3	<0.3	<0.3	<0.6
	01/04/95		<50	---	<0.5	<0.5	<0.5	<0.5
	04/14/95		<50	---	<0.5	<0.5	<0.5	<0.5
	07/12/95		<50	---	<0.5	<0.5	<0.5	<0.5
	12/14/95		<50	---	<0.5	<0.5	<0.5	<0.5
DTSC MCLs			NE	NE	1	680	100[g]	1,750

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 8020
E = Ethylbenzene by EPA Method 8020
T = Toluene by EPA Method 8020
X = Xylenes by EPA Method 8020
dup = Duplicate sample
NE = Not established
DTSC MCLs = California Department of Toxic Substances Control maximum contaminant levels for drinking water
--- = Not analyzed
<n = *Not detected at detection limits of* **n** *ppb*

Notes:

a = Result due to a non-gasoline hydrocarbon compound
b = Result due to a non-diesel hydrocarbon compound
c = The concentrations reported as gasoline are primarily due to the presence of a combination of gasoline and a discrete peak not indicative of gasoline.
d = The concentrations reported as gasoline are primarily due to the presence of a discrete peak not indicative of gasoline
e = DTSC recommended action level; MCL not established

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

Well ID	Date Sampled	Depth to Water	TCE	TOG	PCE	Chloroform	cis-1,2-DCE	trans-1,2-DCE
			← parts per billion (mg/L) →					
MW-1	03/08/90	42.65	---	<10,000	35	6.3	---	---
	06/12/90	43.14	---	<10,000	1.9	63	---	---
	09/13/90	44.71	---	<10,000	26	9	---	---
	12/18/90	45.23	---	<10,000	<0.4	5.3	---	---
	03/07/91	43.32	---	---	23	3.7	---	---
	06/07/91	42.18	---	---	21	6.6	---	---
	09/17/91	44.85	---	---	23	7.4	---	---
	03/01/92	41.56	<0.4	---	21	6.3	---	<0.4
	06/03/92	40.74	17	---	<0.5	6.7	<0.5	<0.5
	09/01/92	43.05	12	---	<0.5	5.8	<0.5	<0.5
	12/07/92	44.19	<0.5	---	17	9	<0.5	<0.5
	03/01/93	34.96	<0.5	---	22	13	<0.5	<0.5
	03/01/93^{dup}	34.96	<0.5	---	22	13	<0.5	<0.5
	06/23/93	36.75	<0.5	---	18	8	<0.5	<0.5
	09/09/93	39.36	<0.5	---	17	6.5	<0.5	<0.5
	12/13/93	40.74	---	---	---	---	---	---
	04/14/95	31.02	---	---	---	---	---	---
MW-2	03/01/92	41.57	<0.4	---	11	8.9	---	<0.4
	06/03/92	40.56	7.4	---	<0.5	<0.5	0.76	6.3
	09/01/92	42.94	8.4	---	<0.5	9.1	<0.5	<0.5
	09/01/92^{dup}	42.94	8.4	---	<0.5	8.1	<0.5	<0.5
	12/07/92	44.13	<0.5	---	10	10	<0.5	<0.5
	12/07/92^{dup}	44.13	<0.5	---	10	9	<0.5	<0.5
	03/01/93	34.82	<0.5	---	<0.5	<0.5	<0.5	<0.5
	06/22/93	36.64	<0.5	---	13	7.9	<0.5	<0.5
	06/22/93^{dup}	36.64	<0.5	---	12	6.9	<0.5	<0.5
	09/09/93	39.24	<0.5	---	11	5.9	1.9	<0.5
			5	5 of 7	5	---	6	10

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

Well ID	Date Sampled	Depth to Water	TCE	TOG	PCE	Chloroform	cis-1,2-DCE	trans-1,2-DCE
			← parts per billion (mg/L) →					
	09/09/93	39.24	<0.5	---	12	7.3	1.1	<0.5
	12/13/93	40.64	---	---	---	---	---	---
	07/27/94	40.40	<0.4		<0.4	7.5	---	<0.4
	08/09/94	40.71	<0.1	---	10.1	5.8	<0.1	<0.3
	10/05/94 [a]	41.89	<5	---	9	5	<5	<5
	01/04/95	39.81	<0.4	---	12	3.8	---	<0.4
	04/14/95	30.83	<0.4	---	8.4	2.3	<0.4	---
MW-3	03/01/92	42.00	<0.4	---	8.8	2.4	---	<0.4
	06/03/92	44.30	3	---	<0.5	1.5	<0.5	<0.5
	09/01/92	43.62	8.8	---	<0.5	2.3	<0.5	<0.5
	12/07/92	44.77	<0.5	---	10	3	<0.5	<0.5
	03/01/93	35.50	<0.5	---	9.2	9.4	<0.5	<0.5
	06/22/93	37.30	<0.5	---	7.8	9.6	<0.5	<0.5
	09/09/93	39.90	<0.5	---	7.9	7.3	<0.5	<0.5
	12/13/93	41.30	---	---	---	---	---	---
Bailer Blank	09/01/92		<0.5	---	<0.5	<0.5	<0.5	<0.5
	12/07/92		<0.5	---	<0.5	<0.5	<0.5	<0.5
Trip Blank	09/01/92		<0.5	---	<0.5	<0.5	<0.5	<0.5
	12/07/92 [b]		<0.5	---	<0.5	<0.5	<0.5	<0.5
	03/01/93		<0.5	---	<0.5	<0.5	<0.5	<0.5
	06/22/93 [c]		<0.5	---	<0.5	<0.5	<0.5	<0.5
DTSC MCLs			5	NE	5	NE	6	10

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

Abbreviations:

TCE	=	Trichloroethene by EPA Method 601
TOG	=	Total non-polar oil and grease by American Public Health Association Standard Methods 503A&E
PCE	=	Tetrachloroethene by EPA Method 601
Chloroform	=	Chloroform by EPA Method 601
cis-1,2-DCE	=	cis-1,2-Dichloroethene by EPA Method 601
trans-1,2-DCE	=	trans-1,2-Dichloroethene by EPA Method 601
---	=	Not analyzed
dup	=	Duplicate sample
DTSC MCLs	=	Department of Toxic Substances Control Maximum Contaminant Levels for drinking water
NE	=	DTSC MCL not established

Notes:

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

ATTACHMENT A

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

January 29, 1996

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

Attn: R. Jeff Granberry

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

1st Quarter 1996

Quarterly Groundwater Monitoring Report 960110-D-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) 995-5535 ext. 201.

Yours truly,

Francis Thie

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

cc: Weiss Associates
5500 Shellmound Street
Emeryville, CA 94608-2411
Attn: Grady Glasser

(Any professional evaluations or recommendations will be made by the consultant under separate cover.)

TABLE OF WELL GAUGING DATA

WELL I.D.	DATA COLLECTION DATE	MEASUREMENT REFERENCED TO	QUALITATIVE OBSERVATIONS (sheen)	DEPTH TO FIRST IMMISCIBLES LIQUID (FPZ) (feet)	THICKNESS OF IMMISCIBLES LIQUID ZONE (feet)	VOLUME OF IMMISCIBLES REMOVED (ml)	DEPTH TO WATER (feet)	DEPTH TO WELL BOTTOM (feet)
MW-1	1/10/96	TOC	--	NONE	--	--	38.34	59.15
MW-2 *	1/10/96	TOC	--	NONE	--	--	38.22	59.36
MW-3	1/10/96	TOC	--	NONE	--	--	39.98	57.52
MW-4	1/10/96	TOC	--	NONE	--	--	39.59	54.65

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

#9869

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 960110-D2

Date: 1-10-96
Page 1 of 1

Site Address: 1285 Bancroft Avenue, San Leandro

WIC#: 204-6852-0703

Shell Engineer: Dan Kirk
Phone No.: (510) 675-6168
Fax #: 675-6160

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

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

Comments:

Sampled by: MKE D

Printed Name: MIKE DILLOUGHERTY

LAB: NET

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020			Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
MW-1	1-10			W		3						X								
MW-2	1-10					3						X								
MW-3	1-10					3						X								
MW-4	1-10					3						X								
EP	1-10					3						X								
DUP	1-10					3						X								

CHECK ONE (1) BOX ONLY — C/O# — TURN AROUND TIME

Quarterly Monitoring	☒	6441
Site Investigation	☐	6441
Soil Closure/Disposal	☐	6442
Water Closure/Disposal	☐	6443
Soil/Air Rem. or Sys. O & M	☐	6442
Water Rem. or Sys. O & M	☐	6443
Other	☐	

TURN AROUND TIME
- 24 hours ☐
- 48 hours ☐
- 15 days ☒ (Normal)
- Other ☐ ____

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

CUSTODY SEALED
Date 1-11-96 Time 1600 Initials [illegible]
SEAL INTACT?
Yes ✓ No ____ Initials [illegible]

Relinquished By (signature):	Printed Name:	Date:	Time:	Received (signature):	Printed Name:	Date:	Time:
[illegible]	MIKE DILLOUGHERTY	1-11-96	1440	[illegible]	J. Smart	1-11-96	1645
[illegible]	J. Smart	1-11-96	1630	[illegible]	PAM GREENE	1-12-96	08:00
Relinquished By (signature):	Printed Name:	Date:	Time:	Received (signature):	Printed Name:	Date:	Time:

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

VIA: NCS

NATIONAL ENVIRONMENTAL TESTING, INC.

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: 01/22/1996
NET Client Acct. No: 1821
NET Job No: 96.00129
Received: 01/12/1996

Client Reference Information

Shell 1285 Bancroft Ave., San Leandro, CA/960110-D2

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. All positive results have been confirmed as required. 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:

Ginger Brinlee
Project Coordinator

Enclosure(s)

Ref: Shell 1285 Bancroft Ave., San Leandro, CA/960110-D2

SAMPLE DESCRIPTION: MW-1
Date Taken: 01/10/1996
Time Taken:
NET Sample No: 258686

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
5030/8015-M/8020 (Shell)								
DILUTION FACTOR*	1						01/16/1996	3473
Purgeable TPH	60		50	ug/L	5030/M8015		01/16/1996	3473
Carbon Range: C6 to C12	--						01/16/1996	3473
8020 (GC, Liquid)	--						01/16/1996	3473
Benzene	3.5		0.5	ug/L	8020		01/16/1996	3473
Toluene	ND		0.5	ug/L	8020		01/16/1996	3473
Ethylbenzene	ND		0.5	ug/L	8020		01/16/1996	3473
Xylenes (Total)	0.5		0.5	ug/L	8020		01/16/1996	3473
SURROGATE RESULTS	--						01/16/1996	3473
Bromofluorobenzene (SURR)	92			% Rec.	8020		01/16/1996	3473

SAMPLE DESCRIPTION: MW-2
Date Taken: 01/10/1996
Time Taken:
NET Sample No: 258687

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
5030/8015-M/8020 (Shell)								
DILUTION FACTOR*	100						01/17/1996	3480
Purgeable TPH	69,000		5,000	ug/L	5030/M8015		01/17/1996	3480
Carbon Range: C6 to C12	--						01/17/1996	3480
8020 (GC, Liquid)	--						01/17/1996	3480
Benzene	1,000		50	ug/L	8020		01/17/1996	3480
Toluene	3,200		50	ug/L	8020		01/17/1996	3480
Ethylbenzene	510		50	ug/L	8020		01/17/1996	3480
Xylenes (Total)	3,300		50	ug/L	8020		01/17/1996	3480
SURROGATE RESULTS	--						01/17/1996	3480
Bromofluorobenzene (SURR)	100			% Rec.	8020		01/17/1996	3480

Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 96.00129

Date: 01/22/1996
ELAP Cert: 1386
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Ref: Shell 1285 Bancroft Ave., San Leandro, CA/960110-D2

SAMPLE DESCRIPTION: MW-3
Date Taken: 01/10/1996
Time Taken:
NET Sample No: 258688

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
5030/8015-M/8020 (Shell)								
DILUTION FACTOR*	20						01/17/1996	3480
Purgeable TPH	11,000		1,000	ug/L	5030/M8015		01/17/1996	3480
Carbon Range: C6 to C12	--						01/17/1996	3480
8020 (GC, Liquid)	--						01/17/1996	3480
Benzene	470		10	ug/L	8020		01/17/1996	3480
Toluene	460		10	ug/L	8020		01/17/1996	3480
Ethylbenzene	68		10	ug/L	8020		01/17/1996	3480
Xylenes (Total)	670		10	ug/L	8020		01/17/1996	3480
SURROGATE RESULTS	--						01/17/1996	3480
Bromofluorobenzene (SURR)	102			% Rec.	8020		01/17/1996	3480

SAMPLE DESCRIPTION: MW-4
Date Taken: 01/10/1996
Time Taken:
NET Sample No: 258689

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
5030/8015-M/8020 (Shell)								
DILUTION FACTOR*	1						01/17/1996	3480
Purgeable TPH	280		50	ug/L	5030/M8015		01/17/1996	3480
Carbon Range: C6 to C12	--						01/17/1996	3480
8020 (GC, Liquid)	--						01/17/1996	3480
Benzene	3.7		0.5	ug/L	8020		01/17/1996	3480
Toluene	1.0		0.5	ug/L	8020		01/17/1996	3480
Ethylbenzene	ND		0.5	ug/L	8020		01/17/1996	3480
Xylenes (Total)	0.8		0.5	ug/L	8020		01/17/1996	3480
SURROGATE RESULTS	--						01/17/1996	3480
Bromofluorobenzene (SURR)	101			% Rec.	8020		01/17/1996	3480

Ref: Shell 1285 Bancroft Ave., San Leandro, CA/960110-D2

SAMPLE DESCRIPTION: EB
Date Taken: 01/10/1996
Time Taken:
NET Sample No: 258690

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
5030/8015-M/8020 (Shell)								
DILUTION FACTOR*	1						01/16/1996	3473
Purgeable TPH	ND		50	ug/L	5030/M8015		01/16/1996	3473
Carbon Range: C6 to C12	--						01/16/1996	3473
8020 (GC, Liquid)	--						01/16/1996	3473
Benzene	ND		0.5	ug/L	8020		01/16/1996	3473
Toluene	ND		0.5	ug/L	8020		01/16/1996	3473
Ethylbenzene	ND		0.5	ug/L	8020		01/16/1996	3473
Xylenes (Total)	ND		0.5	ug/L	8020		01/16/1996	3473
SURROGATE RESULTS	--						01/16/1996	3473
Bromofluorobenzene (SURR)	84			% Rec.	8020		01/16/1996	3473

SAMPLE DESCRIPTION: DUP
Date Taken: 01/10/1996
Time Taken:
NET Sample No: 258691

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
5030/8015-M/8020 (Shell)								
DILUTION FACTOR*	100						01/17/1996	3480
Purgeable TPH	78,000		5,000	ug/L	5030/M8015		01/17/1996	3480
Carbon Range: C6 to C12	--						01/17/1996	3480
8020 (GC, Liquid)	--						01/17/1996	3480
Benzene	1,100		50	ug/L	8020		01/17/1996	3480
Toluene	3,500		50	ug/L	8020		01/17/1996	3480
Ethylbenzene	560		50	ug/L	8020		01/17/1996	3480
Xylenes (Total)	3,600		50	ug/L	8020		01/17/1996	3480
SURROGATE RESULTS	--						01/17/1996	3480
Bromofluorobenzene (SURR)	100			% Rec.	8020		01/17/1996	3480

Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 96.00129

Date: 01/22/1996
ELAP Cert: 1386
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Ref: Shell 1285 Bancroft Ave., San Leandro, CA/960110-D2

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV Standard % Recovery	CCV Standard Amount Found	CCV Standard Amount Expected	Flags	Units	Date Analyzed	Analyst Initials	Run Batch Number
5030/8015-M/8020 (Shell)								
Purgeable TPH	96.0	0.48	0.50		mg/L	01/16/1996	lss	3473
Benzene	91.2	4.56	5.00		ug/L	01/16/1996	lss	3473
Toluene	93.2	4.66	5.00		ug/L	01/16/1996	lss	3473
Ethylbenzene	92.4	4.62	5.00		ug/L	01/16/1996	lss	3473
Xylenes (Total)	94.0	14.1	15.0		ug/L	01/16/1996	lss	3473
Bromofluorobenzene (SURR)	96.0	96	100		% Rec.	01/16/1996	lss	3473
5030/8015-M/8020 (Shell)								
Purgeable TPH	104.0	0.52	0.50		mg/L	01/17/1996	dld	3480
Benzene	96.6	4.83	5.00		ug/L	01/17/1996	dld	3480
Toluene	93.8	4.69	5.00		ug/L	01/17/1996	dld	3480
Ethylbenzene	99.0	4.95	5.00		ug/L	01/17/1996	dld	3480
Xylenes (Total)	99.3	14.9	15.0		ug/L	01/17/1996	dld	3480
Bromofluorobenzene (SURR)	103.0	103	100		% Rec.	01/17/1996	dld	3480

Ref: Shell 1285 Bancroft Ave., San Leandro, CA/960110-D2

METHOD BLANK REPORT

Parameter	Method Blank Amount Found	Reporting Limit	Flags	Units	Date Analyzed	Analyst Initials	Run Batch Number
5030/8015-M/8020 (Shell)							
Purgeable TPH	ND	0.05		mg/L	01/16/1996	lss	3473
Benzene	ND	0.5		ug/L	01/16/1996	lss	3473
Toluene	ND	0.5		ug/L	01/16/1996	lss	3473
Ethylbenzene	ND	0.5		ug/L	01/16/1996	lss	3473
Xylenes (Total)	ND	0.5		ug/L	01/16/1996	lss	3473
Bromofluorobenzene (SURR)	89			% Rec.	01/16/1996	lss	3473
5030/8015-M/8020 (Shell)							
Purgeable TPH	ND	0.05		mg/L	01/17/1996	dld	3480
Benzene	ND	0.5		ug/L	01/17/1996	dld	3480
Toluene	ND	0.5		ug/L	01/17/1996	dld	3480
Ethylbenzene	ND	0.5		ug/L	01/17/1996	dld	3480
Xylenes (Total)	ND	0.5		ug/L	01/17/1996	dld	3480
Bromofluorobenzene (SURR)	101			% Rec.	01/17/1996	dld	3480

Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 96.00129

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Ref: Shell 1285 Bancroft Ave., San Leandro, CA/960110-D2

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike % Rec.	Matrix Spike Dup % Rec.	RPD	Spike Amount	Sample Conc.	Matrix Spike Conc.	Matrix Spike Dup. Conc.	Flags	Units	Date Analyzed	Run Batch	Sample Spiked
5030/8015-M/8020 (Shell)												258697
Purgeable TPH	98.0	96.0	2.1	0.50	0.34	0.83	0.82		mg/L	01/16/1996	3473	258697
Benzene	68.2	65.4	4.2	7.65	ND	5.22	5.00		ug/L	01/16/1996	3473	258697
Toluene	95.6	91.3	4.6	25.2	1.5	25.6	24.5		ug/L	01/16/1996	3473	258697
5030/8015-M/8020 (Shell)												2586
Purgeable TPH	82.0	74.0	10.3	0.50	0.07	0.48	0.44		mg/L	01/17/1996	3480	2586
Benzene	91.2	91.5	0.3	6.85	ND	6.25	6.27		ug/L	01/17/1996	3480	25866
Toluene	87.9	88.3	0.5	24.0	0.8	21.9	22.0		ug/L	01/17/1996	3480	25866

NET®

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.

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

COOLER RECEIPT FORM

roject: 960110-D2 Log No: 9869
ooler received on: 1-12-96 and checked on 1-12-96 by Pam Greene
(signature)

ere custody papers present?	YES	NO
ere custody papers properly filled out?	YES	NO
ere the custody papers signed?	YES	NO
as sufficient ice used?	YES	NO Temp 0°
id all bottles arrive in good condition (unbroken)?	YES	NO
id bottle labels match COC?	YES	NO
ere proper bottles used for analysis indicated?	YES	NO
orrect preservatives used?	YES	NO
OA vials checked for headspace bubbles?	YES	NO

Note which voas (if any) had bubbles:*

ample descriptor:	Number of vials:

ll VOAs with headspace bubbles have been set aside so they will not be ised for analysis..... YES NO

st here all other jobs received in the same cooler:

ient Job #	NET log #

(coolerrec)