



April 18, 1995

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

ENVIRONMENTAL  
PROTECTION  
95 MAY 11 PM 2:19

Re: First Quarter 1995  
Shell Service Station  
WIC #204-6852-0703  
1285 Bancroft Avenue  
San Leandro, California 94577  
WA Job #81-0423-105

Dear Mr. Seery:

This letter describes recently completed and anticipated activities at the Shell service station referenced above (Figure 1). This status report satisfies the quarterly reporting requirements prescribed by California Administrative Code Title 23 Waters, Chapter 3, Subchapter 16, Article 5, Section 2652.d. Included below are descriptions and results of activities performed in the first quarter 1995 and proposed work for the second quarter 1995.

**First 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 in the first quarter. BTS' report describing these activities and the analytic report for the ground water samples are included as Attachment A.

**Anticipated Second Quarter 1995 Activities:**

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


Scott O. Seery  
April 18, 1995

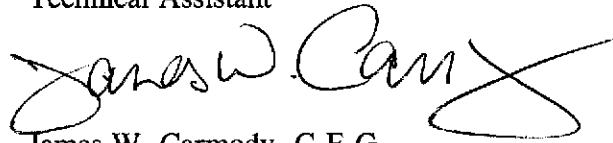
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Please call if you have any questions or comments.

Sincerely,  
Weiss Associates



  
Grady S. Glasser  
Technical Assistant

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

Attachments: A - Ground Water Monitoring Report and Analytic Report

cc: Dan Kirk, Shell Oil Company, P.O. Box 4023, Concord, California 94524  
Lester Feldman, California Regional Water Quality Control Board - San Francisco Bay Region,  
2101 Webster Street, Oakland, California 94612

GSG/JWC:eac  
1:SHR1.0423QM95Q18.DOC

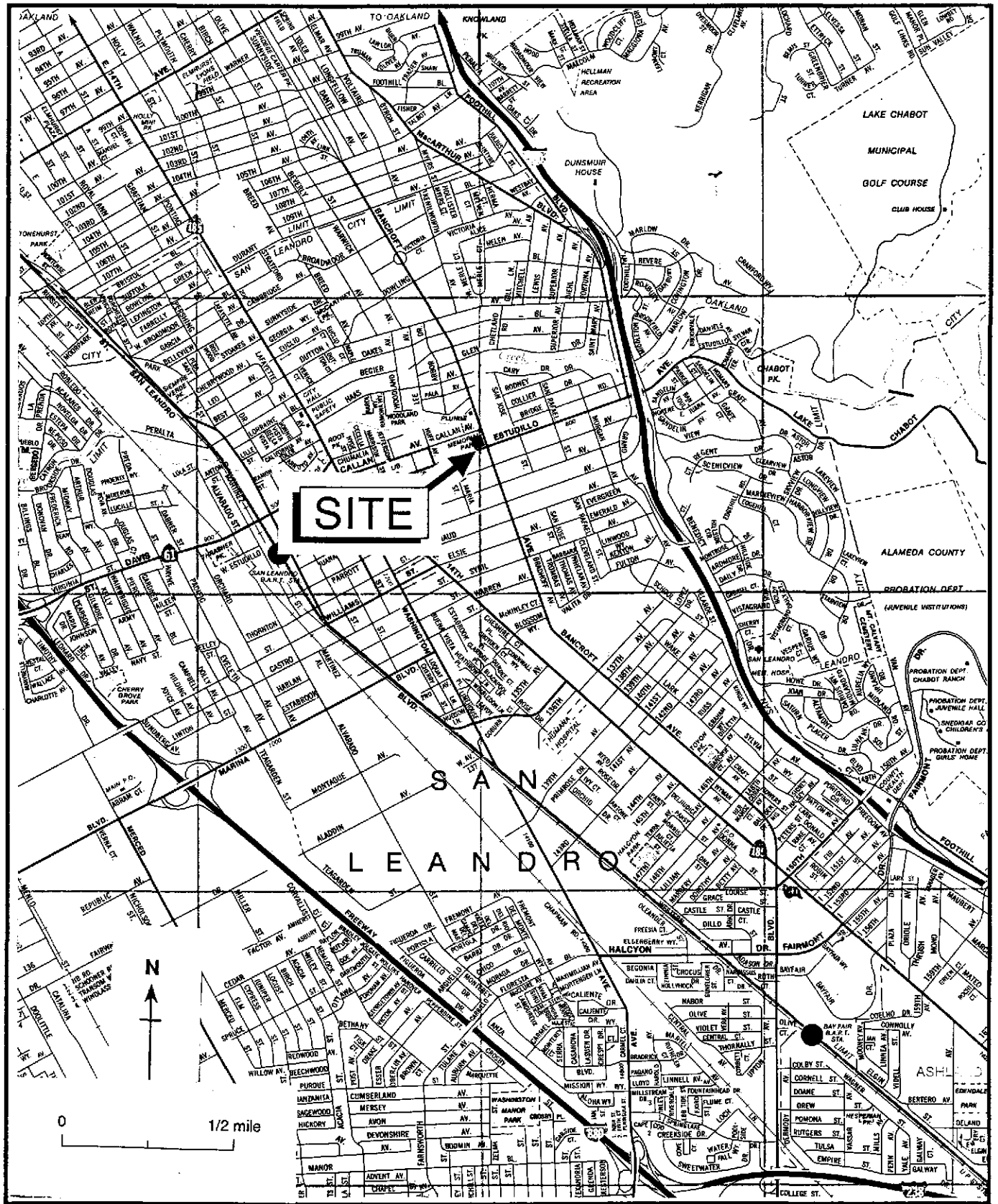
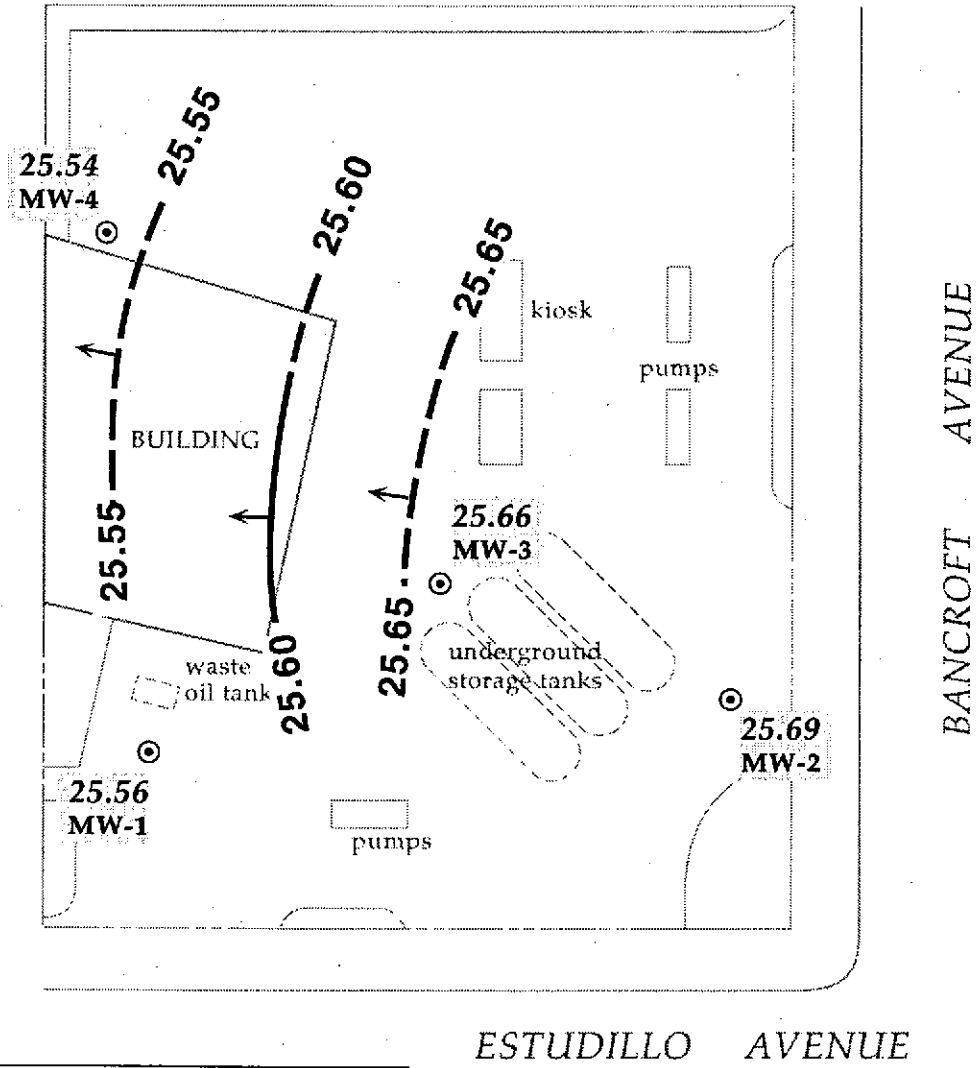


Figure 1. Site Location Map - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California



EXPLANATION	
⊙ MW-1	Monitoring well
25.56	Ground water elevation, ft above mean sea level (msl)
-25.60	Ground water elevation contour, ft above msl, approximately located, dashed where inferred
→	Inferred ground water flow direction

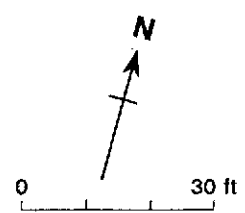
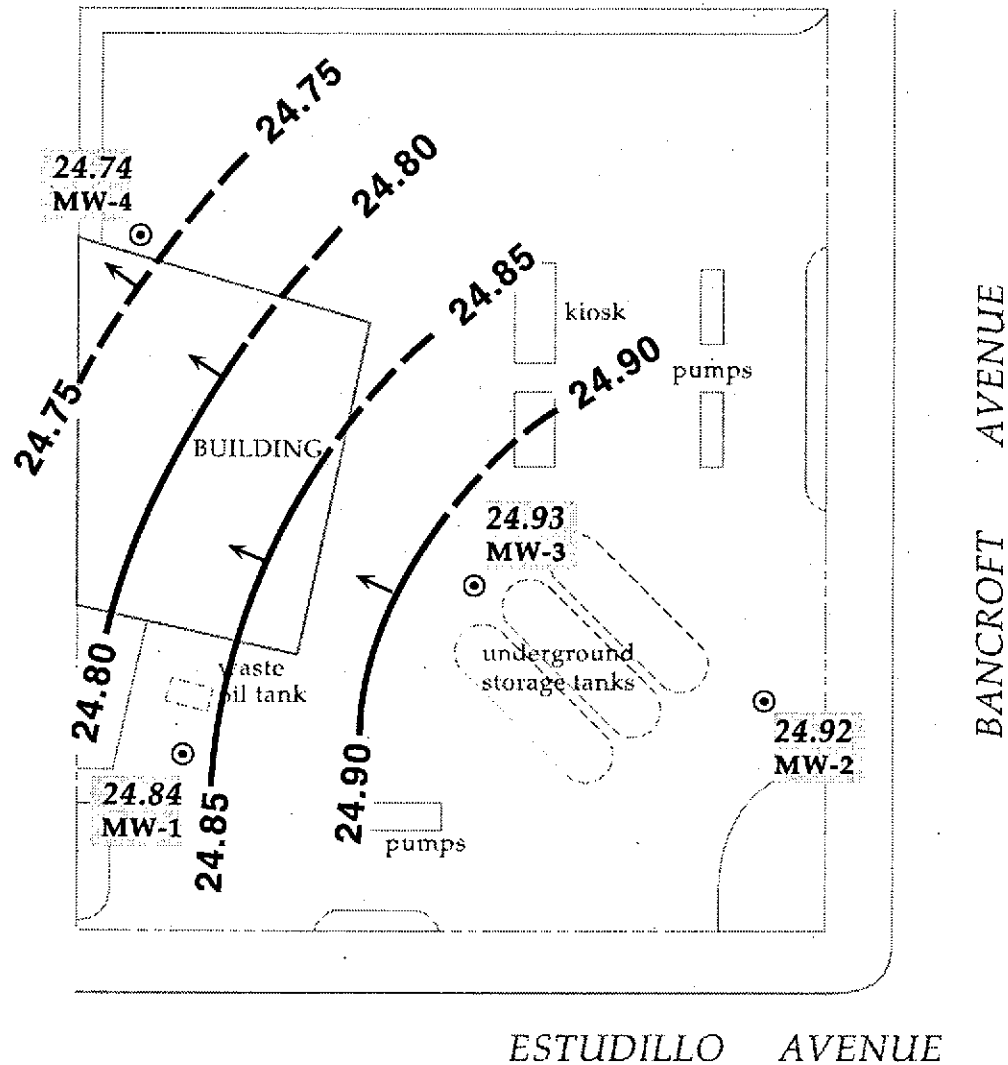


Figure 2. Monitoring Well Locations and Ground Water Elevation Contours - November 11, 1994 - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California



EXPLANATION	
⊙ MW-1	Monitoring well
24.84	Ground water elevation, ft above mean sea level (msl)
-24.80	Ground water elevation contour, ft above msl, approximately located, dashed where inferred
→	Inferred ground water flow direction

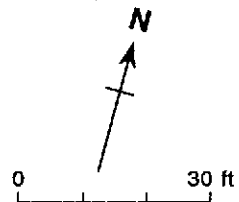
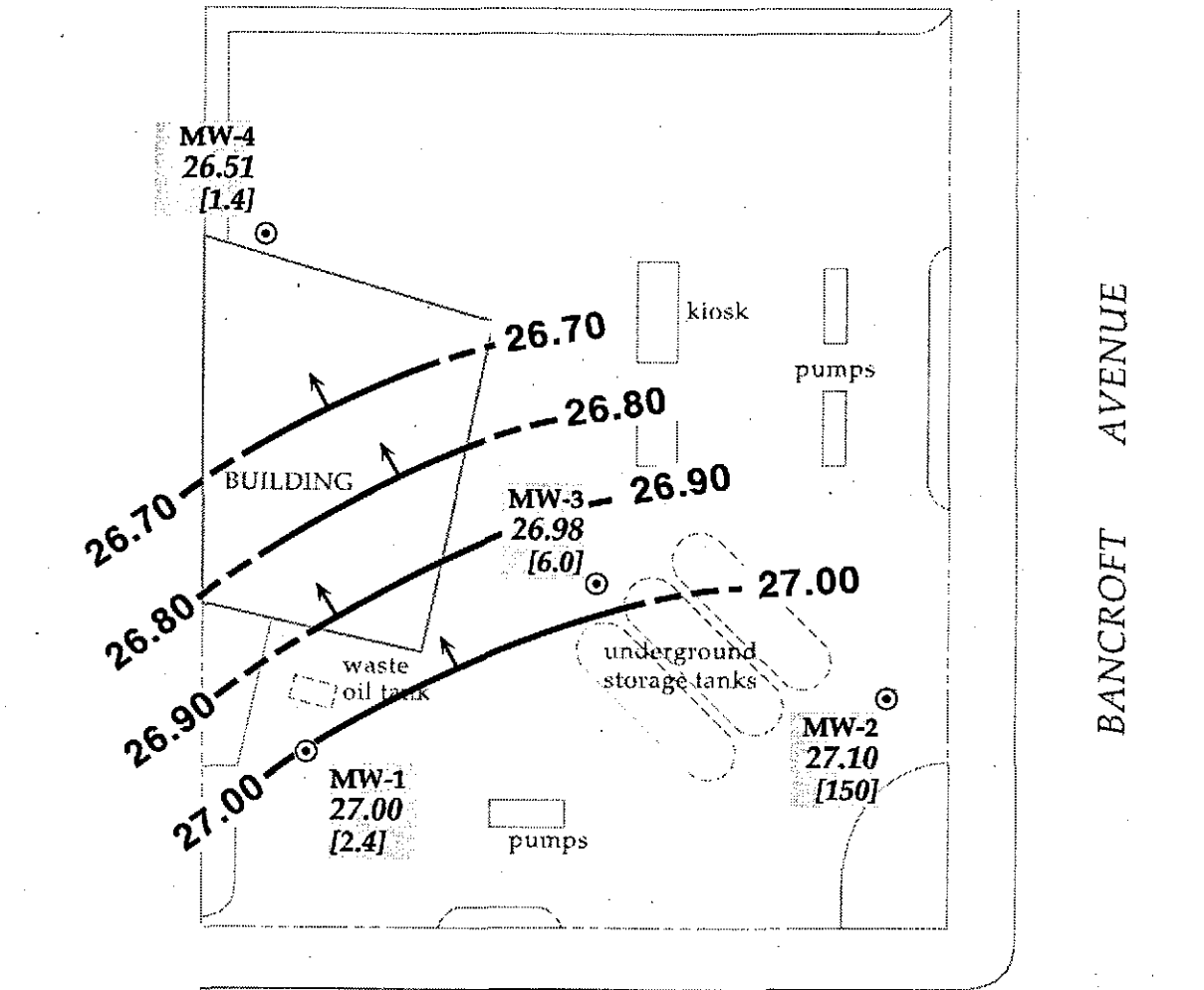


Figure 3. Monitoring Well Locations and Ground Water Elevation Contours - December 29, 1994 - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California



EXPLANATION	
⊙ MW-1	Monitoring well
27.00	Ground water elevation, ft above mean sea level (msl)
[2.4]	Benzene concentration in parts per billion (ppb)
-27.00	Ground water elevation contour, ft above msl, approximately located, dashed where inferred
→	Inferred ground water flow direction

ESTUDILLO AVENUE

BANCROFT AVENUE

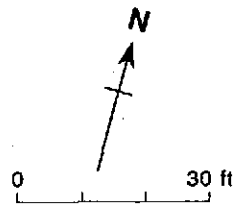


Figure 4. Monitoring Well Locations, Ground Water Elevation Contours, and Benzene Concentration in Ground Water - January 4, 1995 - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

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 <sup>a</sup>	40.49	26.41
	08/09/94		40.84	26.06	
	10/05/94 <sup>b</sup>		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		
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 <sup>a</sup>	40.40	26.51
	08/09/94			40.71	26.20
	10/05/94 <sup>b</sup>			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	
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	

— Table 1 continues on next page —

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)
	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 <sup>a</sup>	41.07	26.45
	08/09/94		41.37	26.15
	10/05/94 <sup>b</sup>		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
MW-4	07/27/94	68.08 <sup>a</sup>	41.78	26.30
	08/09/94		42.09	25.99
	10/05/94 <sup>b</sup>		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

Notes:

- a = Top-of-Casing Elevation resurveyed March 29, 1994
- b = Measurements this date represent 3rd month of 3rd Quarter 1994.



Table 2A. Analytical 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)	parts per billion (mg/L)					
			TPH-G	TPH-D	B	E	T	X
MW-1	09/17/91	44.85	50 <sup>a</sup>	160 <sup>b</sup>	<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 <sup>dup</sup>	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 <sup>c</sup>	---	16	2.0	5.2	<0.5
	12/13/93	40.74	89 <sup>d</sup>	---	3.4	<0.5	<0.5	<0.5
	03/03/94	38.40	65 <sup>d</sup>	---	2.6	<0.5	<0.5	<0.5
	07/27/94	40.49	180	---	30	2.6	1.8	5.0
	07/27/94 <sup>dup</sup>	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 <sup>dup</sup>	39.90	<50	---	2.5	<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 <sup>dup</sup>	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 <sup>dup</sup>	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
	06/22/93 <sup>dup</sup>	36.64	320	---	29	4.2	4.8	6.1
	09/09/93	39.24	260	---	18	16	4.6	12
	09/09/93 <sup>dup</sup>	39.24	210	---	16	14	3.9	9.1
	12/13/93	40.64	1,300 <sup>c</sup>	---	82	73	34	15
12/13/93 <sup>dup</sup>	40.64	1,400 <sup>c</sup>	---	110	72	45	19	

— Table 2A continues on next page —

Table 2A. Analytical 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	parts per billion (mg/L)			
					B	E	T	X
	03/03/94	38.98	9,600	---	1,200	390	600	710
	03/03/94 <sup>dup</sup>	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
	<b>01/04/95</b>	<b>39.81</b>	<b>1,300</b>	<b>---</b>	<b>150</b>	<b>23</b>	<b>35</b>	<b>51</b>
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 <sup>c</sup>	---	5.0	<0.5	<0.5	<0.5
	12/13/93	41.30	120 <sup>d</sup>	---	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 <sup>e</sup>	42.55	<57	---	<0.3	<0.3	<0.3	<0.6
	<b>01/04/95</b>	<b>40.54</b>	<b>&lt;50</b>	<b>---</b>	<b>6.0</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>
MW-4	07/27/94	41.78	120	---	3.4	0.6	3.9	4.9
	10/05/94 <sup>e</sup>	43.25	<50	---	<0.3	<0.3	<0.3	<0.6
	10/05/94 <sup>dup</sup>	43.25	<50	---	<0.3	<0.3	<0.3	<0.6
	<b>01/04/95</b>	<b>41.57</b>	<b>&lt;50</b>	<b>---</b>	<b>1.4</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>
Bailer	09/01/92		<50	---	<0.5	<0.5	<0.5	1
Blank	12/07/92		<50	---	<0.5	<0.5	<0.5	<0.5
	<b>01/04/95</b>		<b>&lt;50</b>	<b>---</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>

— Table 2A continues on next page —

Table 2A. Analytical 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	parts per billion (mg/L)				
					B	E	T	X	
Trip	09/17/91		<50	---	<0.5	<0.5	<0.5	<0.5	
Blank	03/01/92		<50	---	<0.5	<0.5	<0.5	<0.5	
	06/03/92		<50	---	<0.5	<0.5	<0.5	<0.5	
	09/01/92		<50	---	<0.5	<0.5	<0.5	<0.5	
	12/07/92		<50	---	<0.5	<0.5	<0.5	<0.5	
	03/01/93		<50	---	<0.5	<0.5	<0.5	<0.5	
	06/22/93		<50	---	<0.5	<0.5	<0.5	<0.5	
	09/09/93		<50	---	<0.5	<0.5	<0.5	<0.5	
	12/13/93		<50	---	<0.5	<0.5	<0.5	<0.5	
	03/03/94		<50	---	<0.5	<0.5	<0.5	<0.5	
	07/27/94		<50	---	<0.5	<0.5	<0.5	<0.5	
	08/09/94		<500	---	<0.3	<0.3	<0.3	<0.6	
	10/05/94		<50	---	<0.3	<0.3	<0.3	<0.6	
	01/04/95		<50	---	<0.5	<0.5	<0.5	<0.5	
	DTSC MCLs			NE	NE	1	680	100 <sup>b</sup>	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 ppm

**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 = Data not required, extra sample collected by sampling consultant.
- f = Results this date represent 3rd month of 3rd Quarter 1994
- g = 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 <sup>dup</sup>	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	---	---	---	---	---	---
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 <sup>dup</sup>	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 <sup>dup</sup>	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 <sup>dup</sup>	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
	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

— Table 2B continues on next page —

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	parts per billion (mg/L)			
					PCE	Chloroform	cis-1,2-DCE	trans-1,2-DCE
	08/09/94	40.71	<0.1	---	10.1	5.8	<0.1	<0.3
	10/05/94 <sup>a</sup>	41.89	<5	---	9	5	<5	<5
	<b>01/04/95</b>	<b>39.81</b>	<b>&lt;0.4</b>	<b>---</b>	<b>12</b>	<b>3.8</b>	<b>---</b>	<b>&lt;0.4</b>
MW-3	03/01/92	42.00	<0.4	---	8.8	2.4	---	<0.4
	06/03/92	44.30	3	---	<0.5	1.5	<0.5	<0.5
	09/01/92	43.62	8.8	---	<0.5	2.3	<0.5	<0.5
	12/07/92	44.77	<0.5	---	10	3	<0.5	<0.5
	03/01/93	35.50	<0.5	---	9.2	9.4	<0.5	<0.5
	06/22/93	37.30	<0.5	---	7.8	9.6	<0.5	<0.5
	09/09/93	39.90	<0.5	---	7.9	7.3	<0.5	<0.5
	12/13/93	41.30	---	---	---	---	---	---
Bailer	09/01/92		<0.5	---	<0.5	<0.5	<0.5	<0.5
Blank	12/07/92		<0.5	---	<0.5	<0.5	<0.5	<0.5
Trip	09/01/92		<0.5	---	<0.5	<0.5	<0.5	<0.5
Blank	12/07/92 <sup>b</sup>		<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 <sup>c</sup>		<0.5	---	<0.5	<0.5	<0.5	<0.5
DTSC MCLs			5	NE	5	NE	6	10

— Table 2B continues on next page —

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

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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  
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**

January 18, 1995

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

Attn: Daniel T. Kirk

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

QUARTER:  
1st quarter of 1995

## **QUARTERLY GROUNDWATER SAMPLING REPORT 950104-F-1**

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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 removed in cases where the well dewateres 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 sites 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 #178.

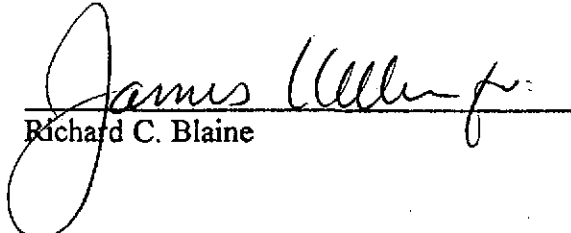
### Objective Information Collection

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

RCB/p

attachments: table of well gauging data  
chain of custody  
certified analytical report

cc: Weiss Associates  
5500 Shellmound Street  
Emeryville, CA 94608-2411  
ATTN: Michael Apsort

### TABLE OF WELL GAUGING DATA

WELL I.D.	DATA COLLECTION DATE	MEASUREMENT REFERENCED TO	QUALITATIVE OBSERVATIONS (sheen)	DEPTH TO FIRST IMMISCIBLE LIQUID (FPZ) (feet)		THICKNESS OF IMMISCIBLE LIQUID ZONE (feet)		VOLUME OF IMMISCIBLES REMOVED (ml)	DEPTH TO WATER (feet)	DEPTH TO WELL BOTTOM (feet)
				IMMISCIBLES LIQUID (FPZ) (feet)	IMMISCIBLES LIQUID ZONE (feet)	IMMISCIBLES LIQUID ZONE (feet)	IMMISCIBLES LIQUID ZONE (feet)			
MW-1 *	11/11/94	TOC	-	NONE	-	-	-	41.34	59.12	
	12/29/94	TOC	-	NONE	-	-	-	42.06	59.31	
	1/4/95	TOC	-	NONE	-	-	-	39.90	59.28	
MW-2	11/11/94	TOC	ODOR	NONE	-	-	-	41.22	59.05	
	12/29/94	TOC	-	NONE	-	-	-	41.99	59.22	
	1/4/95	TOC	-	NONE	-	-	-	39.81	59.20	
MW-3	11/11/94	TOC	-	NONE	-	-	-	41.86	57.84	
	12/29/94	TOC	-	NONE	-	-	-	42.59	58.01	
	1/4/95	TOC	-	NONE	-	-	-	40.54	57.94	
MW-4	11/11/94	TOC	-	NONE	-	-	-	42.54	54.66	
	12/29/94	TOC	-	NONE	-	-	-	43.34	54.80	
	1/4/95	TOC	-	NONE	-	-	-	41.57	54.79	

\* Sample DUP was a duplicate sample taken from well MW-1



**SHELL OIL COMPANY**  
**RETAIL ENVIRONMENTAL ENGINEERING - WEST**

**CHAIN OF CUSTODY RECORD**

Serial No: 950104F1

Date: \_\_\_\_\_  
 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: *Tom Flyx*

Printed Name: Tom Flyx

**Analysis Required**

TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	<u>HVOC's (8010)</u>	Asbestos	Container Size <u>40 mL</u>	Preparation Used <u>VOA</u>	Composite Y/N <u>HC1</u>
-------------------------	----------------------------	---------------------	------------------------------	-------------------	----------------------------------	----------------------	----------	-----------------------------	-----------------------------	--------------------------

LAB: NET PACIFIC

CHECK ONE (1) BOX ONLY	CT/DI	TURN AROUND TIME
Quarterly Monitoring <input checked="" type="checkbox"/>	6441	24 hour <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	6441	48 hour <input type="checkbox"/>
Soil Clarity/Disposal <input type="checkbox"/>	6442	15 days <input checked="" type="checkbox"/> (Normal)
Water Clarity/Disposal <input type="checkbox"/>	6443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	6442	
Water Rem. or Sys. O & M <input type="checkbox"/>	6443	
Other <input type="checkbox"/>		

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

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	Analysis Required										MATERIAL DESCRIPTION	SAMPLE CONDITION/COMMENTS
							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	<u>HVOC's (8010)</u>	Asbestos	Container Size <u>40 mL</u>	Preparation Used <u>VOA</u>		
MW-1 1038	<u>1/11/95</u>			X		3												
MW-2 1101						5												
MW-3 953						3												
MW-4 1011						3												
DUP -						3												
E.B 957						3												
TB - LAB						2												

(1/13/95)  
*[Signature]*  
 Seal intact J.S.

Relinquished By (signature): <i>[Signature]</i>	Printed Name: <u>Tom Flyx</u>	Date: <u>1/5/95</u>	Received (signature): <i>[Signature]</i>	Printed Name: <u>[Signature]</u>	Date: <u>1/10/95</u>
Relinquished By (signature): <i>[Signature]</i>	Printed Name: <u>[Signature]</u>	Date: <u>1/5/95</u>	Received (signature): <i>[Signature]</i>	Printed Name: <u>[Signature]</u>	Date: <u>1/10/95</u>
Relinquished By (signature):	Printed Name:	Date:	Received (signature):	Printed Name: <u>J. Sorensen</u>	Date: <u>07:00</u>

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



NATIONAL  
ENVIRONMENTAL  
TESTING, INC.

Santa Rosa Division  
435 Tesconi Circle  
Santa Rosa, CA 95401  
Tel: (707) 526-7200  
Fax: (707) 526-9623

Jim Keller  
Blaine Tech Services  
985 Timothy Dr.  
San Jose, CA 95133

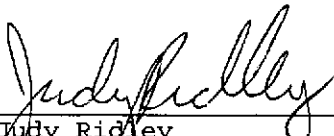
Date: 01/13/1995  
NET Client Acct. No: 1821  
NET Pacific Job No: 94.06455  
Received: 01/06/1995

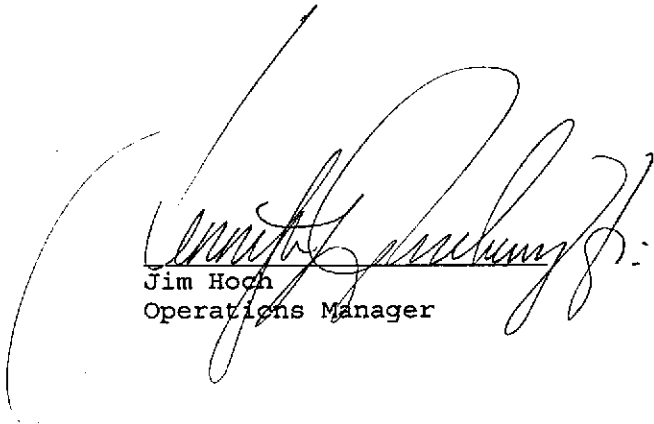
Client Reference Information

SHELL, 1285 Bancroft Ave., San Leandro, Job No. 950104-F1

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:

  
\_\_\_\_\_  
Judy Ridley  
Project Coordinator

  
\_\_\_\_\_  
Jim Hoch  
Operations Manager

Enclosure (s)





Client Name: Blaine Tech Services  
Client Acct: 1821  
NET Job No: 94.06455

Date: 01/13/1995  
ELAP Cert: 1386  
Page: 2

Ref: SHELL, 1285 Bancroft Ave., San Leandro, Job No. 950104-F1

SAMPLE DESCRIPTION: MW-1  
Date Taken: 01/04/1995  
Time Taken: 10:38  
NET Sample No: 232896

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
TPH (Gas/BTXE, Liquid)								
METHOD 5030/M8015	--						01/10/1995	2472
DILUTION FACTOR*	1						01/10/1995	2472
as Gasoline	ND		50	ug/L	5030		01/10/1995	2472
Carbon Range:	--						01/10/1995	2472
METHOD 8020 (GC, Liquid)	--						01/10/1995	2472
Benzene	2.4	C	0.5	ug/L	8020		01/10/1995	2472
Toluene	ND		0.5	ug/L	8020		01/10/1995	2472
Ethylbenzene	ND		0.5	ug/L	8020		01/10/1995	2472
Xylenes (Total)	ND		0.5	ug/L	8020		01/10/1995	2472
SURROGATE RESULTS	--						01/10/1995	2472
Bromofluorobenzene (SURR)	97			% Rec.	5030		01/10/1995	2472

C : Positive result confirmed by secondary column or GC/MS analysis.

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



Client Name: Blaine Tech Services  
Client Acct: 1821  
NET Job No: 94.06455

Date: 01/13/1995  
EIAP Cert: 1386  
Page: 3

Ref: SHELL, 1285 Bancroft Ave., San Leandro, Job No. 950104-F1

SAMPLE DESCRIPTION: MW-2

Date Taken: 01/04/1995

Time Taken: 11:01

NET Sample No: 232897

Parameter	Results	Flags	Reporting			Method	Date	Date	Run
			Limit	Units			Extracted	Analyzed	Batch No.
TPH (Gas/BTEXE,Liquid)									
METHOD 5030/M8015	--						01/10/1995	2472	
DILUTION FACTOR*	1						01/10/1995	2472	
as Gasoline	1,300		50	ug/L	5030		01/10/1995	2472	
Carbon Range:	C5-C12						01/10/1995	2472	
METHOD 8020 (GC,Liquid)	--						01/10/1995	2472	
Benzene	150	FC	5	ug/L	8020		01/11/1995	2477	
Toluene	35		0.5	ug/L	8020		01/10/1995	2472	
Ethylbenzene	23		0.5	ug/L	8020		01/10/1995	2472	
Xylenes (Total)	51		0.5	ug/L	8020		01/10/1995	2472	
SURROGATE RESULTS	--						01/10/1995	2472	
Bromofluorobenzene (SURR)	103			% Rec.	5030		01/10/1995	2472	

FC : Compound quantitated at a 10X dilution factor.

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





Client Name: Blaine Tech Services  
Client Acct: 1821  
NET Job No: 94.06455

Date: 01/13/1995  
ELAP Cert: 1386  
Page: 4

Ref: SHELL, 1285 Bancroft Ave., San Leandro, Job No. 950104-F1

SAMPLE DESCRIPTION: MW-2

Date Taken: 01/04/1995

Time Taken: 11:01

NET Sample No: 232897

Parameter	Results	Flags	Reporting			Date	Date	Run
			Limit	Units	Method	Extracted	Analyzed	Batch No.
METHOD 8010 (GC,Liquid)								
DILUTION FACTOR*	1						01/06/1995	792
Bromodichloromethane	ND		0.4	ug/L	8010		01/06/1995	792
Bromoform	ND		0.4	ug/L	8010		01/06/1995	792
Bromomethane	ND		0.4	ug/L	8010		01/06/1995	792
Carbon tetrachloride	ND		0.4	ug/L	8010		01/06/1995	792
Chlorobenzene	ND		0.4	ug/L	8010		01/06/1995	792
Chloroethane	ND		0.4	ug/L	8010		01/06/1995	792
2-Chloroethylvinyl ether	ND		1.0	ug/L	8010		01/06/1995	792
Chloroform	3.8		0.4	ug/L	8010		01/06/1995	792
Chloromethane	ND		0.4	ug/L	8010		01/06/1995	792
Dibromochloromethane	ND		0.4	ug/L	8010		01/06/1995	792
1,2-Dichlorobenzene	ND		0.4	ug/L	8010		01/06/1995	792
1,3-Dichlorobenzene	ND		0.4	ug/L	8010		01/06/1995	792
1,4-Dichlorobenzene	ND		0.4	ug/L	8010		01/06/1995	792
Dichlorodifluoromethane	ND		0.4	ug/L	8010		01/06/1995	792
1,1-Dichloroethane	ND		0.4	ug/L	8010		01/06/1995	792
1,2-Dichloroethane	ND		0.4	ug/L	8010		01/06/1995	792
1,1-Dichloroethene	ND		0.4	ug/L	8010		01/06/1995	792
trans-1,2-Dichloroethene	ND		0.4	ug/L	8010		01/06/1995	792
1,2-Dichloropropane	ND		0.4	ug/L	8010		01/06/1995	792
cis-1,3-Dichloropropene	ND		0.4	ug/L	8010		01/06/1995	792
trans-1,3-Dichloropropene	ND		0.4	ug/L	8010		01/06/1995	792
Methylene chloride	ND		10	ug/L	8010		01/06/1995	792
1,1,2,2-Tetrachloroethane	ND		0.4	ug/L	8010		01/06/1995	792
Tetrachloroethene	12		0.4	ug/L	8010		01/06/1995	792
1,1,1-Trichloroethane	ND		0.4	ug/L	8010		01/06/1995	792
1,1,2-Trichloroethane	ND		1	ug/L	8010		01/06/1995	792
Trichloroethene	ND		0.4	ug/L	8010		01/06/1995	792
Trichlorofluoromethane	ND		0.4	ug/L	8010		01/06/1995	792
Vinyl chloride	ND		0.4	ug/L	8010		01/06/1995	792
SURROGATE RESULTS	--						01/06/1995	792
1,4-Difluorobenzene (SURR)	150	MI		% Rec.			01/06/1995	792
Bromochloromethane (SURR)	91			% Rec.			01/06/1995	792

MI : Matrix Interference Suspected

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



Client Name: Blaine Tech Services  
Client Acct: 1821  
NET Job No: 94.06455

Date: 01/13/1995  
ELAP Cert: 1386  
Page: 5

Ref: SHELL, 1285 Bancroft Ave., San Leandro, Job No. 950104-F1

SAMPLE DESCRIPTION: MW-3  
Date Taken: 01/04/1995  
Time Taken: 09:53  
NET Sample No: 232898

Parameter	Results	Flags	Reporting			Date	Date	Run
			Limit	Units	Method	Extracted	Analyzed	Batch No.
TPH (Gas/BTXE, Liquid)								
METHOD 5030/M8015	--						01/10/1995	2472
DILUTION FACTOR*	1						01/10/1995	2472
as Gasoline	ND		50	ug/L	5030		01/10/1995	2472
Carbon Range:	--						01/10/1995	2472
METHOD 8020 (GC, Liquid)	--						01/10/1995	2472
Benzene	6.0	C	0.5	ug/L	8020		01/10/1995	2472
Toluene	ND		0.5	ug/L	8020		01/10/1995	2472
Ethylbenzene	ND		0.5	ug/L	8020		01/10/1995	2472
Xylenes (Total)	ND		0.5	ug/L	8020		01/10/1995	2472
SURROGATE RESULTS	--						01/10/1995	2472
Bromofluorobenzene (SURR)	94			% Rec.	5030		01/10/1995	2472

C : Positive result confirmed by secondary column or GC/MS analysis.

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



Client Name: Blaine Tech Services  
Client Acct: 1821  
NET Job No: 94.06455

Date: 01/13/1995  
ELAP Cert: 1386  
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Ref: SHELL, 1285 Bancroft Ave., San Leandro, Job No. 950104-F1

SAMPLE DESCRIPTION: MW-4  
Date Taken: 01/04/1995  
Time Taken: 10:11  
NET Sample No: 232899

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
TPH (Gas/BTXE,Liquid)								
METHOD 5030/M8015	--						01/10/1995	2472
DILUTION FACTOR*	1						01/10/1995	2472
as Gasoline	ND		50	ug/L	5030		01/10/1995	2472
Carbon Range:	--						01/10/1995	2472
METHOD 8020 (GC,Liquid)	--						01/10/1995	2472
Benzene	1.4	C	0.5	ug/L	8020		01/10/1995	2472
Toluene	ND		0.5	ug/L	8020		01/10/1995	2472
Ethylbenzene	ND		0.5	ug/L	8020		01/10/1995	2472
Xylenes (Total)	ND		0.5	ug/L	8020		01/10/1995	2472
SURROGATE RESULTS	--						01/10/1995	2472
Bromofluorobenzene (SURR)	90			% Rec.	5030		01/10/1995	2472

C : Positive result confirmed by secondary column or GC/MS analysis.

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



Client Name: Blaine Tech Services  
Client Acct: 1821  
NET Job No: 94.06455

Date: 01/13/1995  
ELAP Cert: 1386  
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Ref: SHELL, 1285 Bancroft Ave., San Leandro, Job No. 950104-F1

SAMPLE DESCRIPTION: DUP  
Date Taken: 01/04/1995  
Time Taken:  
NET Sample No: 232900

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
TPH (Gas/BTXE,Liquid)								
METHOD 5030/M8015	--						01/10/1995	2472
DILUTION FACTOR*	1						01/10/1995	2472
as Gasoline	ND		50	ug/L	5030		01/10/1995	2472
Carbon Range:	--						01/10/1995	2472
METHOD 8020 (GC,Liquid)	--						01/10/1995	2472
Benzene	2.5	C	0.5	ug/L	8020		01/10/1995	2472
Toluene	ND		0.5	ug/L	8020		01/10/1995	2472
Ethylbenzene	ND		0.5	ug/L	8020		01/10/1995	2472
Xylenes (Total)	ND		0.5	ug/L	8020		01/10/1995	2472
SURROGATE RESULTS	--						01/10/1995	2472
Bromofluorobenzene (SURR)	94			% Rec.	5030		01/10/1995	2472

C : Positive result confirmed by secondary column or GC/MS analysis.

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



Client Name: Blaine Tech Services  
Client Acct: 1821  
NET Job No: 94.06455

Date: 01/13/1995  
ELAP Cert: 1386  
Page: 8

Ref: SHELL, 1285 Bancroft Ave., San Leandro, Job No. 950104-F1

SAMPLE DESCRIPTION: EB  
Date Taken: 01/04/1995  
Time Taken: 09:57  
NET Sample No: 232901

Parameter	Results	Flags	Reporting			Date Extracted	Date Analyzed	Run Batch No.
			Limit	Units	Method			
TPH (Gas/BTXE,Liquid)								
METHOD 5030/M8015	--						01/10/1995	2472
DILUTION FACTOR*	1						01/10/1995	2472
as Gasoline	ND		50	ug/L	5030		01/10/1995	2472
Carbon Range:	--						01/10/1995	2472
METHOD 8020 (GC,Liquid)	--						01/10/1995	2472
Benzene	ND		0.5	ug/L	8020		01/10/1995	2472
Toluene	ND		0.5	ug/L	8020		01/10/1995	2472
Ethylbenzene	ND		0.5	ug/L	8020		01/10/1995	2472
Xylenes (Total)	ND		0.5	ug/L	8020		01/10/1995	2472
SURROGATE RESULTS	--						01/10/1995	2472
Bromofluorobenzene (SURR)	95			† Rec.	5030		01/10/1995	2472

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



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Client Acct: 1821  
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SAMPLE DESCRIPTION: TB

Date Taken: 01/04/1995

Time Taken:

NET Sample No: 232902

Parameter	Results	Flags	Reporting			Date	Date	Run
			Limit	Units	Method	Extracted	Analyzed	Batch No.
TPH (Gas/BTXE,Liquid)								
METHOD 5030/M8015	--						01/10/1995	2472
DILUTION FACTOR*	1						01/10/1995	2472
as Gasoline	ND		50	ug/L	5030		01/10/1995	2472
Carbon Range:	--						01/10/1995	2472
METHOD 8020 (GC,Liquid)	--						01/10/1995	2472
Benzene	ND		0.5	ug/L	8020		01/10/1995	2472
Toluene	ND		0.5	ug/L	8020		01/10/1995	2472
Ethylbenzene	ND		0.5	ug/L	8020		01/10/1995	2472
Xylenes (Total)	ND		0.5	ug/L	8020		01/10/1995	2472
SURROGATE RESULTS	--						01/10/1995	2472
Bromofluorobenzene (SURR)	90			% Rec.	5030		01/10/1995	2472

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



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## CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV	CCV	CCV	Units	Date Analyzed	Run	
	Standard % Recovery	Standard Amount Found	Standard Amount Expected			Analyst Initials	Batch Number
TPH (Gas/BTXE, Liquid)							
as Gasoline	103.0	1.03	1.00	mg/L	01/10/1995	dfw	2472
Benzene	96.8	4.84	5.00	ug/L	01/10/1995	dfw	2472
Toluene	87.2	4.36	5.00	ug/L	01/10/1995	dfw	2472
Ethylbenzene	92.8	4.64	5.00	ug/L	01/10/1995	dfw	2472
Xylenes (Total)	87.9	13.18	15.0	ug/L	01/10/1995	dfw	2472
Bromofluorobenzene (SURR)	101.0	101	100	% Rec.	01/10/1995	dfw	2472
TPH (Gas/BTXE, Liquid)							
as Gasoline	110.0	1.10	1.00	mg/L	01/10/1995	aal	2476
Benzene	100.0	5.00	5.00	ug/L	01/10/1995	aal	2476
Toluene	100.0	5.00	5.00	ug/L	01/10/1995	aal	2476
Ethylbenzene	100.0	5.00	5.00	ug/L	01/10/1995	aal	2476
Xylenes (Total)	100.0	15.0	15.0	ug/L	01/10/1995	aal	2476
Bromofluorobenzene (SURR)	110.0	110	100	% Rec.	01/10/1995	aal	2476
TPH (Gas/BTXE, Liquid)							
as Gasoline	105.0	1.05	1.00	mg/L	01/11/1995	lss	2477
Benzene	107.4	5.37	5.00	ug/L	01/11/1995	lss	2477
Toluene	97.6	4.88	5.00	ug/L	01/11/1995	lss	2477
Ethylbenzene	98.6	4.93	5.00	ug/L	01/11/1995	lss	2477
Xylenes (Total)	96.0	14.4	15.0	ug/L	01/11/1995	lss	2477
Bromofluorobenzene (SURR)	99.0	99	100	% Rec.	01/11/1995	lss	2477

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



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## CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV	CCV	CCV	Units	Date Analyzed	Run	
	Standard	Standard	Standard			Analyst	Batch
	% Recovery	Amount Found	Amount Expected			Initials	Number
METHOD 8010 (GC,Liquid)							
Bromodichloromethane	97.0	19.4	20.0	ug/L	01/06/1995	ltg	792
Bromoform	93.5	18.7	20.0	ug/L	01/06/1995	ltg	792
Bromomethane	100.0	20.0	20.0	ug/L	01/06/1995	ltg	792
Carbon tetrachloride	95.5	19.1	20.0	ug/L	01/06/1995	ltg	792
Chlorobenzene	97.5	19.5	20.0	ug/L	01/06/1995	ltg	792
Chloroethane	88.0	17.6	20.0	ug/L	01/06/1995	ltg	792
2-Chloroethylvinyl ether	71.0	14.2	20.0	ug/L	01/06/1995	ltg	792
Chloroform	102.5	20.5	20.0	ug/L	01/06/1995	ltg	792
Chloromethane	87.5	17.5	20.0	ug/L	01/06/1995	ltg	792
Dibromochloromethane	92.0	18.4	20.0	ug/L	01/06/1995	ltg	792
1,2-Dichlorobenzene	92.0	18.4	20.0	ug/L	01/06/1995	ltg	792
1,3-Dichlorobenzene	85.5	17.1	20.0	ug/L	01/06/1995	ltg	792
1,4-Dichlorobenzene	91.0	18.2	20.0	ug/L	01/06/1995	ltg	792
Dichlorodifluoromethane	88.5	17.7	20.0	ug/L	01/06/1995	ltg	792
1,1-Dichloroethane	101.5	20.3	20.0	ug/L	01/06/1995	ltg	792
1,2-Dichloroethane	92.5	18.5	20.0	ug/L	01/06/1995	ltg	792
1,1-Dichloroethene	108.0	21.6	20.0	ug/L	01/06/1995	ltg	792
trans-1,2-Dichloroethene	85.0	17.0	20.0	ug/L	01/06/1995	ltg	792
1,2-Dichloropropane	90.0	18.0	20.0	ug/L	01/06/1995	ltg	792
cis-1,3-Dichloropropene	81.0	16.2	20.0	ug/L	01/06/1995	ltg	792
trans-1,3-Dichloropropene	92.0	18.4	20.0	ug/L	01/06/1995	ltg	792
Methylene chloride	95.0	19.0	20.0	ug/L	01/06/1995	ltg	792
1,1,2,2-Tetrachloroethane	94.5	18.9	20.0	ug/L	01/06/1995	ltg	792
Tetrachloroethene	94.5	18.9	20.0	ug/L	01/06/1995	ltg	792
1,1,1-Trichloroethane	94.5	18.9	20.0	ug/L	01/06/1995	ltg	792
1,1,2-Trichloroethane	92.0	18.4	20.0	ug/L	01/06/1995	ltg	792
Trichloroethene	95.5	19.1	20.0	ug/L	01/06/1995	ltg	792
Trichlorofluoromethane	99.5	19.9	20.0	ug/L	01/06/1995	ltg	792
Vinyl chloride	88.5	17.7	20.0	ug/L	01/06/1995	ltg	792
1,4-Difluorobenzene (SURR)	83.0	83	100	% Rec.	01/06/1995	ltg	792
Bromochloromethane (SURR)	94.0	94	100	% Rec.	01/06/1995	ltg	792

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Client Acct: 1821  
NET Job No: 94.06455

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Ref: SHELL, 1285 Bancroft Ave., San Leandro, Job No. 950104-F1

## METHOD BLANK REPORT

Parameter	Method			Date Analyzed	Analyst Initials	Run Batch Number
	Blank Amount Found	Reporting Limit	Units			
TPH (Gas/BTXE,Liquid)						
as Gasoline	ND	0.05	mg/L	01/10/1995	dfw	2472
Benzene	ND	0.5	ug/L	01/10/1995	dfw	2472
Toluene	ND	0.5	ug/L	01/10/1995	dfw	2472
Ethylbenzene	ND	0.5	ug/L	01/10/1995	dfw	2472
Xylenes (Total)	ND	0.5	ug/L	01/10/1995	dfw	2472
Bromofluorobenzene (SURR)	99		% Rec.	01/10/1995	dfw	2472
TPH (Gas/BTXE,Liquid)						
as Gasoline	ND	0.05	mg/L	01/10/1995	aal	2476
Benzene	ND	0.5	ug/L	01/10/1995	aal	2476
Toluene	ND	0.5	ug/L	01/10/1995	aal	2476
Ethylbenzene	ND	0.5	ug/L	01/10/1995	aal	2476
Xylenes (Total)	ND	0.5	ug/L	01/10/1995	aal	2476
Bromofluorobenzene (SURR)	88		% Rec.	01/10/1995	aal	2476
TPH (Gas/BTXE,Liquid)						
as Gasoline	ND	0.05	mg/L	01/11/1995	lss	2477
Benzene	ND	0.5	ug/L	01/11/1995	lss	2477
Toluene	ND	0.5	ug/L	01/11/1995	lss	2477
Ethylbenzene	ND	0.5	ug/L	01/11/1995	lss	2477
Xylenes (Total)	ND	0.5	ug/L	01/11/1995	lss	2477
Bromofluorobenzene (SURR)	93		% Rec.	01/11/1995	lss	2477

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## METHOD BLANK REPORT

Parameter	Method	Reporting		Date	Analyst	Run
	Blank	Amount	Limit	Analyzed	Initials	Batch
	Found		Units			Number
METHOD 8010 (GC,Liquid)						
Bromodichloromethane	ND	0.4	ug/L	01/06/1995	ltg	792
Bromoform	ND	0.4	ug/L	01/06/1995	ltg	792
Bromomethane	ND	0.4	ug/L	01/06/1995	ltg	792
Carbon tetrachloride	ND	0.4	ug/L	01/06/1995	ltg	792
Chlorobenzene	ND	0.4	ug/L	01/06/1995	ltg	792
Chloroethane	ND	0.4	ug/L	01/06/1995	ltg	792
2-Chloroethylvinyl ether	ND	1.0	ug/L	01/06/1995	ltg	792
Chloroform	ND	0.4	ug/L	01/06/1995	ltg	792
Chloromethane	ND	0.4	ug/L	01/06/1995	ltg	792
Dibromochloromethane	ND	0.4	ug/L	01/06/1995	ltg	792
1,2-Dichlorobenzene	ND	0.4	ug/L	01/06/1995	ltg	792
1,3-Dichlorobenzene	ND	0.4	ug/L	01/06/1995	ltg	792
1,4-Dichlorobenzene	ND	0.4	ug/L	01/06/1995	ltg	792
Dichlorodifluoromethane	ND	0.4	ug/L	01/06/1995	ltg	792
1,1-Dichloroethane	ND	0.4	ug/L	01/06/1995	ltg	792
1,2-Dichloroethane	ND	0.4	ug/L	01/06/1995	ltg	792
1,1-Dichloroethene	ND	0.4	ug/L	01/06/1995	ltg	792
trans-1,2-Dichloroethene	ND	0.4	ug/L	01/06/1995	ltg	792
1,2-Dichloropropane	ND	0.4	ug/L	01/06/1995	ltg	792
cis-1,3-Dichloropropene	ND	0.4	ug/L	01/06/1995	ltg	792
trans-1,3-Dichloropropene	ND	0.4	ug/L	01/06/1995	ltg	792
Methylene chloride	ND	10	ug/L	01/06/1995	ltg	792
1,1,2,2-Tetrachloroethane	ND	0.4	ug/L	01/06/1995	ltg	792
Tetrachloroethene	ND	0.4	ug/L	01/06/1995	ltg	792
1,1,1-Trichloroethane	ND	0.4	ug/L	01/06/1995	ltg	792
1,1,2-Trichloroethane	ND	0.4	ug/L	01/06/1995	ltg	792
Trichloroethene	ND	0.4	ug/L	01/06/1995	ltg	792
Trichlorofluoromethane	ND	0.4	ug/L	01/06/1995	ltg	792
Vinyl chloride	ND	0.4	ug/L	01/06/1995	ltg	792
1,4-Difluorobenzene (SURR)	89		% Rec.	01/06/1995	ltg	792
Bromochloromethane (SURR)	90		% Rec.	01/06/1995	ltg	792

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



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## MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike				Sample Conc.	Matrix Spike			Date Analyzed	Run Batch	Sample Spiked
	% Rec.	% Rec.	RPD	Spike Amount		Conc.	Dup.	Conc.			
TPH (Gas/BTEX,Liquid)											232947
as Gasoline	102.0	100.0	2.0	1.00	ND	1.02	1.00	mg/L	01/10/1995	2472	232947
Benzene	96.5	93.6	3.1	20.2	ND	19.5	18.9	ug/L	01/10/1995	2472	232947
Toluene	99.1	97.6	1.5	84.6	ND	83.8	82.6	ug/L	01/10/1995	2472	232947
TPH (Gas/BTEX,Liquid)											232994
as Gasoline	103.0	108.0	4.7	1.00	ND	1.03	1.08	mg/L	01/11/1995	2477	232994
Benzene	98.1	103.3	5.1	21.0	ND	20.6	21.7	ug/L	01/11/1995	2477	232994
Toluene	98.9	98.1	0.8	87.2	ND	86.2	85.5	ug/L	01/11/1995	2477	232994

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



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## MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike				Sample Conc.	Matrix Spike			Units	Date Analyzed	Run Batch	Sample Spiked
	Matrix Spike % Rec.	Dup % Rec.	RPD	Spike Amount		Matrix Spike Conc.	Dup. Conc.	Conc.				
METHOD 8010 (GC,Liquid)												232808
Chlorobenzene	99.5	106.5	6.7	20.0	ND	19.9	21.3	ug/L	01/06/1995	792		232808
1,1-Dichloroethene	115.5	117.0	1.3	20.0	ND	23.1	23.4	ug/L	01/06/1995	792		232808
Trichloroethene	103.0	105.5	2.4	20.0	ND	20.6	21.1	ug/L	01/06/1995	792		232808

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



## 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. Actual reporting limits and results have been multiplied by the listed dilution factor. Do not multiply the reporting limits or reported values by the dilution factor.
- dw : Result expressed as dry weight.
- 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 the applicable listed reporting limit.
- NTU : Nephelometric turbidity units.
- RPD : Relative percent difference,  $100 \text{ [Value 1 - Value 2] / mean value}$ .
- 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., Rev. 1, December 1987.

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

COOLER RECEIPT FORM

Project: Still, 1285 Bancroft San Leandro, 950104F1 Log No: 4833  
Cooler received on: 1-6-95 and checked on 1-6-95 by J. Sorensen  
J. Sorensen  
(signature)

- Were custody papers present?.....  YES NO
- Were custody papers properly filled out?.....  YES NO
- Were the custody papers signed?.....  YES NO
- Was sufficient ice used?.....  YES NO -0.3°C
- Did all bottles arrive in good condition (unbroken)?.....  YES NO
- Did bottle labels match COC?.....  YES NO
- Were proper bottles used for analysis indicated?.....  YES NO
- Correct preservatives used?.....  YES NO
- VOA vials checked for headspace bubbles?.....  YES NO

Note which voas (if any) had bubbles:\*

Sample descriptor:  

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Number of vials:  

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\*All VOAs with headspace bubbles have been set aside so they will not be used for analysis.....YES NO

List here all other jobs received in the same cooler:

Client Job #	NET log #
<hr/>	<hr/>
<hr/>	<hr/>
<hr/>	<hr/>
<hr/>	<hr/>
<hr/>	<hr/>

(coolerrec)