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April 25, 1994

Richard Hiett
Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, CA 94612

Re: Shell Service Station
WIC #204-5508-5801
500 - 40th Street
Oakland, California
WA Job #81-601-104

Dear Mr. Hiett:

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 265.d. Included below are descriptions and results of activities performed in the first quarter 1994 and proposed work for the second quarter 1994.

First Quarter 1994 Activities:

- Blaine Tech Services, Inc. (BTS) of San Jose, California measured depths to ground water and collected ground water samples in the twelve site wells. BTS' report describing these activities and the analytic report for the ground water samples are included as Attachment A.
- Weiss Associates (WA) compiled the ground water elevation and analytic data (Tables 1, 2 and 2b) and prepared a ground water elevation contour map (Figure 2).

Anticipated Second Quarter 1994 Activities:

As indicated in our April 15, 1993 monitoring report, WA has implemented semi-annual sampling of wells EW-1, MW-2 through MW-10 and well MW-13. These wells will be sampled in

Richard Hiett
April 25, 1994

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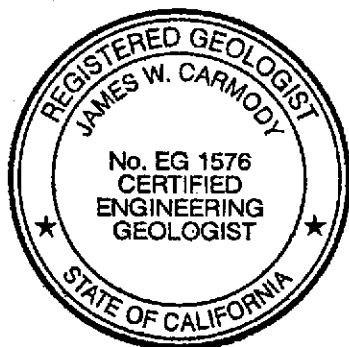
the second and fourth quarters of 1994. Wells MW-11 and MW-12 will continue to be sampled quarterly.

WA will submit a report presenting the results of the second quarter 1994 ground water sampling and ground water depth measurements. The report will include tabulated chemical analytic results, and a ground water elevation contour map.

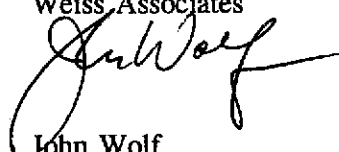
Conclusions and Recommendations:

WA recommends continued ground water sampling to monitor ground water flow directions and hydrocarbon concentrations.

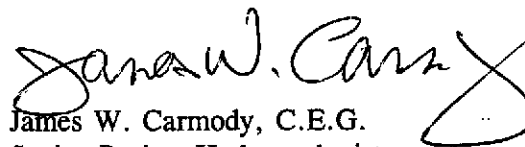
Please call if you have any questions.



Sincerely,
Weiss Associates



John Wolf
Technical Assistant



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

JAW/JWC:jaw

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Attachments: A - Blaine Tech Services' Ground Water Monitoring Report

cc: Dan Kirk, Shell Oil Company, P.O. Box 5728, Concord, CA 94520-9998
Jim Matthews, Shell Oil Company, P.O. Box 4848, Anaheim, CA 92803
Brian Oliva, Alameda County Department of Environmental Health, 80 Swan Way,
Room 200, Oakland, CA 94621-1426

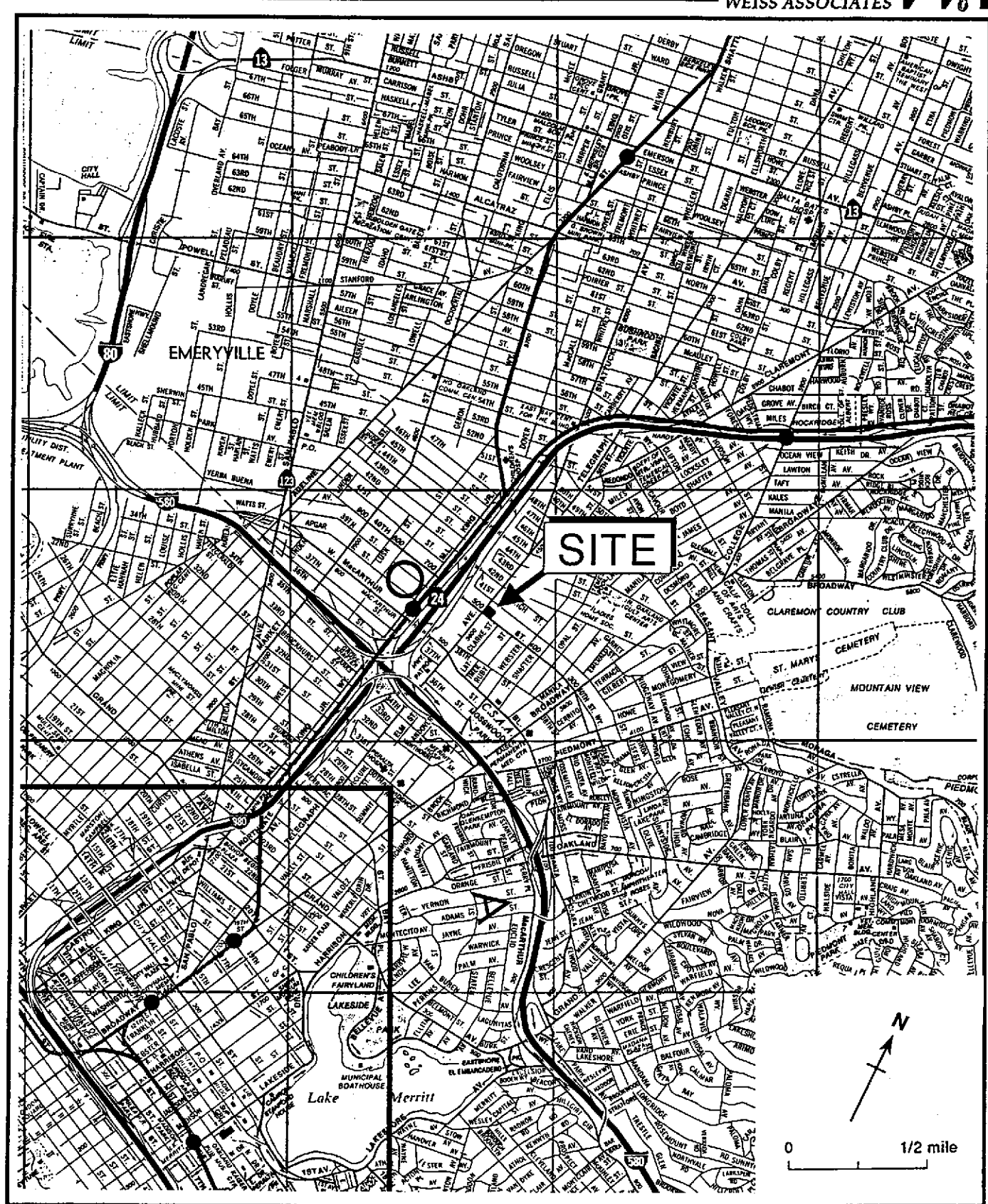


Figure 1. Site Location Map - Shell Service Station WIC #204-5508-4903, 500 40th Street, Oakland, California

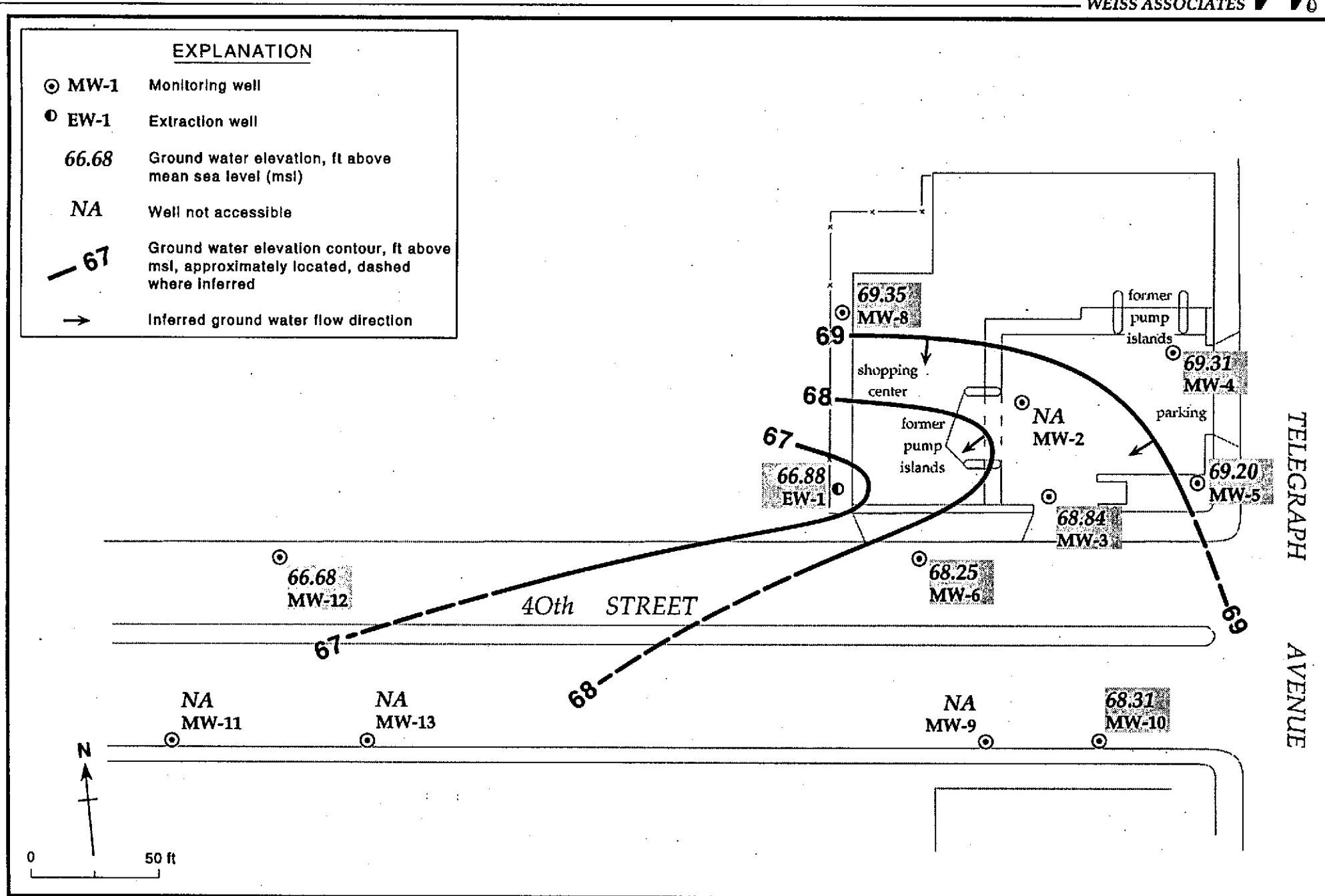


Figure 2. Monitoring Well Locations and Ground Water Elevation Contours - February 18, 1994 - Shell Service Station, WIC #204-5508-4903, 500 40th Street, Oakland, California

Table 1. Ground Water Elevations - Shell Service Station WIC #204-5508-5801, 500 40th Street, Oakland, California

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
EW-1	08/06/91	78.26	---	---
	10/30/91		12.72	65.54
	03/18/92		11.71	66.55
	05/20/92		12.84	65.42
	08/19/92		13.04	65.22
	11/18/92		12.90	65.36
	02/11/93		11.28	66.98
	05/19/93		12.52	65.74
	08/18/93		12.48	65.78
	11/17/93		12.63	65.63
	02/18/94			11.38
MW-2	08/06/91	80.80	12.12	68.68
	10/30/91		11.70	69.10
	03/18/92		11.10	69.70
	05/20/92		12.12	68.68
	08/19/92		12.18	68.62
	11/18/92		12.03	68.77
	02/11/93		11.15	69.65
	05/19/93		11.80	69.00
	08/18/93 ^a		---	---
	11/17/93		12.00	68.80
	02/18/94^a			---
MW-3	08/06/91	79.60	11.12	68.48
	10/30/91		10.93	68.67
	03/18/92		10.54	69.06
	05/20/92		10.79	68.81
	08/19/92		11.23	68.37
	11/18/92		11.20	68.40
	02/11/93		11.00	68.60
	05/19/93		11.16	68.44
	08/18/93		11.35	68.25
	11/17/93		11.10	68.50
	02/18/94			10.76
MW-4	08/06/91	81.00	12.36	68.64
	10/30/91		12.02	68.98
	03/18/92		11.34	69.66
	05/20/92		12.35	68.65

-- Table 1 continues on next page --

Table 1. Ground Water Elevations - Shell Service Station WIC #204-5508-5801, 500 40th Street, Oakland, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
	08/19/92		12.41	68.59
	11/18/92		12.28	68.72
	02/11/93		11.65	69.35
	05/19/93		11.92	69.08
	08/18/93 ^a		---	---
	11/17/93		12.24	68.76
	02/18/94		11.69	69.31
MW-5	08/06/91	81.50	13.02	68.48
	10/30/91		12.73	68.77
	03/18/92		12.52	68.98
	05/20/92		13.05	68.45
	08/19/92		13.04	68.46
	11/18/92		12.91	68.59
	02/11/93		12.44	69.06
	05/19/93		12.84	68.66
	08/18/93		12.88	68.62
	11/17/93		12.89	68.61
	02/18/94		12.30	69.20
MW-6	08/06/91	77.90	10.71	67.19
	10/30/91		10.50	67.40
	03/18/92		9.24	68.66
	05/20/92		10.13	67.77
	08/19/92		10.16	67.74
	11/18/92		9.94	67.96
	02/11/93		9.20	68.70
	05/19/93		10.64	67.86
	08/18/93		10.04	67.86
	11/17/93		10.12	67.78
	02/18/94		9.65	68.25
MW-8	08/06/91	79.91	13.08	66.83
	10/30/91		12.87	67.04
	03/18/92		11.54	68.37
	05/20/92		12.32	67.59
	08/19/92		12.58	67.33
	11/18/92		12.47	67.44
	02/11/93		11.02	68.89
	05/19/93		11.78	68.13

-- Table 1 continues on next page --

Table 1. Ground Water Elevations - Shell Service Station WIC #204-5508-5801, 500 40th Street, Oakland, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
	08/18/93		12.22	67.69
	11/17/93		12.25	67.66
	02/18/94		10.56	69.35
MW-9	08/06/91	77.71	10.38	67.33
	10/30/91		---	---
	03/18/92		8.76	68.95
	05/20/92 ^a		---	---
	08/19/92		9.98	67.73
	11/18/92		9.81	67.90
	02/11/93 ^a		---	---
	05/19/93		---	---
	08/18/93		9.75	67.96
	11/17/93		9.92	67.79
	02/18/94^a		---	---
MW-10	08/06/91	77.91	10.00	67.91
	10/31/91		10.10	67.81
	03/18/92		9.55	68.36
	05/20/92		10.41	67.50
	08/19/92		10.46	67.45
	11/18/92		10.31	67.60
	02/11/93		9.68	68.23
	05/19/93		10.19	67.72
	08/18/93		10.29	67.62
	11/17/93		10.32	67.59
	02/18/94		9.60	68.31
MW-11	11/22/91	75.76	11.90	63.86
	02/15/92 ^a		---	---
	03/18/92 ^a		---	---
	05/20/92 ^a		---	---
	08/19/92		12.06	63.70
	11/18/92		12.01	63.75
	02/11/93 ^a		---	---
	05/19/93		11.90	63.86
	08/18/93		11.90	63.86
	11/17/93		11.94	63.82
	02/18/94^a		---	---

-- Table 1 continues on next page --

Table 1. Ground Water Elevations - Shell Service Station WIC #204-5508-5801, 500 40th Street, Oakland, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
MW-12	12/02/91	75.65	10.31	65.34
	03/18/92		8.93	66.72
	05/20/92		10.26	65.39
	08/19/92		10.53	65.12
	11/18/92		10.45	65.20
	02/11/93		8.90	66.75
	05/19/93		10.60	65.05
	08/18/93		10.28	65.37
	11/17/93		10.24	65.41
	02/18/94		8.97	66.68
MW-13	11/22/91	76.36	11.96	64.40
	03/18/92		10.84	65.52
	05/20/92 ^a		---	---
	08/19/92		12.12	64.24
	11/18/92		12.00	64.42
	02/11/93 ^a		---	---
	05/19/93		12.26	64.10
	08/18/93		11.75	64.61
	11/17/93		11.78	64.58
	02/18/94^a		---	---

Notes:

a = Inaccessible well, ground water depth not measured

Table 2. Analytical Results for Ground Water - Shell Service Station WIC #204-5508-5801, 500 40th Street, Oakland, California

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	B	E	T	X	parts per billion (µg/L)	
									----->	
EW-1 (Semi-annually 2nd & 4th Qtrs)	08/06/91	---	180	<50	5.4	0.9	<0.5			0.7
	10/30/91	12.72	70	<50	2.6	<0.5	<0.5			<0.5
	02/15/92	11.71	<50	---	2.1	<0.5	<0.5			<0.5
	05/22/92	12.84	99	---	4.1	<0.5	<0.5			<0.5
	08/19/92	13.04	140	---	6.6	<0.5	<0.5			<0.5
	11/18/92	12.90	56	---	<0.5	<0.5	<0.5			<0.5
	02/11/93	11.28	63	---	<0.5	<0.5	<0.5			0.9
	02/11/93 ^b	11.28	63	---	<0.5	<0.5	<0.5			0.8
	05/19/93	12.52	60 ^c	---	<0.5	<0.5	<0.5			<0.5
	11/17/93	12.63	170	---	17	<0.5	<0.5			<0.5
11/17/93 ^{dup}	12.63	190	---	17	<0.5	<0.5			<0.5	
MW-2 (Semi-annually 2nd & 4th Qtrs)	08/07/91	12.12	1,200	230	59	38	1.1			56
	10/30/91	11.70	520	300	56	56	<0.5			100
	02/15/92	11.10	2,300	2,200 ^b	87	88	<2.5			150
	05/21/92	12.12	700	---	24	34	1.0			48
	08/19/92	12.18	740	---	21	24	<2.5			26
	08/19/92 ^d	12.18	840	---	31	36	<2.5			43
	11/18/92	12.03	920	---	19	30	<2.5			51
	11/18/92 ^d	12.03	870	---	25	34	<2.5			52
	02/11/93	11.15	1,000	---	25	43	6.0			73
	05/19/93	11.80	570	---	19	37	<0.5			42
11/17/93	12.00	250	---	10	26	<1.0			20	
MW-3 (Semi-annually 2nd & 4th Qtrs)	08/07/91	11.12	1,900	470	220	57	57			260
	10/30/91	10.93	1,900	480	160	63	28			180
	02/15/92	10.54	2,300	780 ^b	170	59	31			180
	05/21/92	10.79	1,500	---	160	44	20			140
	08/19/92	11.23	4,500	---	210	89	64			310
	11/18/92	11.20	2,400	---	81	39	14			140
	02/11/93	11.0	3,000	---	200	90	47			260
	05/19/93	11.16	2,100	---	240	100	44			330
11/17/93	11.10	1,000	---	110	60	13			150	
MW-4 (Semi-annually 2nd & 4th Qtrs)	08/07/91	12.36	<50	<50	<0.5	<0.5	<0.5			<0.5
	10/30/91	12.02	50	<50	<0.5	<0.5	<0.5			<0.5
	02/15/92	11.34	90	---	0.9	<0.5	<0.5			<0.5
	05/21/92	12.35	<50	---	<0.5	<0.5	<0.5			<0.5
	08/19/92	12.41	82 ^c	---	<0.5	<0.5	<0.5			<0.5
	11/18/92	12.28	85 ^c	---	<0.5	<0.5	<0.5			<0.5
	02/11/93	11.65	62 ^c	---	<0.5	<0.5	<0.5			<0.5
	05/19/93	11.92	<50	---	<0.5	<0.5	<0.5			<0.5
11/17/93	12.24	<50	---	<0.5	<0.5	<0.5			<0.5	

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Weiss Associates



Table 2. Analytical Results for Ground Water - Shell Service Station WIC #204-5508-5801, 500 40th Street, Oakland, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	B	E	T	X
			-----parts per billion (µg/L)-----					
MW-5 (Semi-annually 2nd & 4th Qtrs)	08/07/91	13.02	<50	<50	<0.5	<0.5	<0.5	<0.5
	10/30/91	12.73	<50	<50	<0.5	<0.5	<0.5	<0.5
	02/15/92	12.52	<50	---	<0.5	<0.5	<0.5	<0.5
	05/20/92	13.05	<50	---	<0.5	<0.5	<0.5	<0.5
	08/19/92	13.04	55 ^c	---	<0.5	<0.5	<0.5	<0.5
	11/18/92	12.91	<50	---	<0.5	<0.5	<0.5	<0.5
	02/11/93	12.44	59 ^c	---	<0.5	<0.5	<0.5	<0.5
	05/19/93	12.84	<50	---	<0.5	<0.5	<0.5	<0.5
	05/19/93 ^{dup}	12.84	<50	---	<0.5	<0.5	<0.5	<0.5
	11/17/93	12.89	<50	---	<0.5	<0.5	<0.5	<0.5
MW-6 (Semi-annually 2nd & 4th Qtrs)	08/06/91	10.71	26,000	3,600	910	560	420	1,900
	10/30/91	10.50	20,000	4,600	710	410	240	1,700
	02/15/92	9.24	35,000	27,000	690	650	420	3,000
	05/21/92	10.13	15,000	---	460	300	110	1,600
	08/19/92	10.16	24,000	---	600	460	300	2,000
	11/18/92	9.94	29,000	---	480	450	250	2,300
	02/11/93	9.20	24,000	---	1,300	630	250	2,400
	05/19/93	10.04	18,000	---	750	520	180	2,500
	11/17/93	10.12	14,000	---	260	430	64	1,900
MW-8 (Semi-annually 2nd & 4th Qtrs)	08/06/91	13.08	90	<50	<0.5	<0.5	<0.5	<0.5
	10/30/91	12.87	<50	<50	<0.5	<0.5	<0.5	<0.5
	02/15/92	11.54	<50	---	<0.5	<0.5	<0.5	<0.5
	05/20/92	12.32	<50	---	<0.5	<0.5	<0.5	<0.5
	08/19/92	12.58	60	---	<0.5	<0.5	<0.5	<0.5
	11/18/92	12.47	<50	---	<0.5	<0.5	<0.5	<0.5
	02/11/93	11.02	76 ^c	---	<0.5	<0.5	<0.5	<0.5
	05/18/93	11.78	<50	---	<0.5	<0.5	<0.5	<0.5
11/17/93	12.25	<50	---	<0.5	<0.5	<0.5	<0.5	
MW-9 (Semi-annually 2nd & 4th Qtrs)	08/06/91	10.38	3,900	190	58	80	8.8	220
	10/30/91	---	---	---	---	---	---	---
	03/18/92	8.76	1,800 ^d	210	84	49	11	60
	05/20/92	---	---	---	---	---	---	---
	08/19/92	9.98	4,600	22 ^b	63	48	<25	70
	11/18/93	9.81	1,800	130 ^b	30	46	9.2	61
	02/11/93	---	---	---	---	---	---	---
	05/19/93	---	---	---	---	---	---	---
11/17/93	9.92	5,900	2,400 ^e	86	150	14	46	
MW-10 (Semi-annually 2nd & 4th Qtrs)	08/07/91	10.00	460	<50	73	18	1.0	8.4
	10/31/91	10.10	630	150	100	33	<0.5	26
	02/15/92	9.55	810	570 ^b	85	44	2.5	38

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Table 2. Analytical Results for Ground Water - Shell Service Station WIC #204-5508-5801, 500 40th Street, Oakland, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	B	E	T	X
			-----parts per billion (µg/L)-----					
	05/21/92	10.41	280	---	47	4.0	0.7	3.1
	08/19/92	10.46	330	---	35	6.0	<1	4.1
	11/18/93	10.31	300	---	30	7.1	0.8	6.3
	02/11/93	9.68	510 ^c	---	49	18	3.8	18
	05/19/93	10.19	<50	---	96	3.4	<0.5	1.5
	11/17/93	9.92	400	---	24	2.8	<1.0	1.9
MW-11 (Quarterly)	11/22/91	11.90	450	240	1.1	<0.5	<0.5	<0.5
	02/15/92	---	---	---	---	---	---	---
	03/18/92	---	---	---	---	---	---	---
	05/20/92	---	---	---	---	---	---	---
	08/19/92	12.06	270 ^c	<50	<0.5	<0.5	<0.5	<0.5
	11/18/92	12.01	400 ^c	100	<0.5	<0.5	<0.5	<0.5
	02/11/93	---	---	---	---	---	---	---
	05/20/93	11.90	200 ^c	<0.5	<0.5	<0.5	<0.5	<0.5
	08/18/93	11.90	180 ^c	<50	<0.5	<0.5	<0.5	<0.5
	11/17/93	11.94	150 ^c	<50 ^b	<0.5	<0.5	3.6	<0.5
	02/18/94	---	---	---	---	---	---	---
MW-12 (Quarterly)	12/02/91	10.31	<1,000	<50	<0.5	<0.5	<0.5	<0.5
	03/18/92	8.93	<50	<50	<0.5	<0.5	<0.5	<0.5
	05/20/92	10.26	180 ^c	---	<0.5	<0.5	<0.5	<0.5
	08/19/92	10.53	230 ^c	---	<0.5	<0.5	<0.5	<0.5
	11/18/92	10.45	220 ^c	---	<0.5	<0.5	<0.5	<0.5
	02/11/93	8.90	240	---	<0.5	<0.5	<0.5	<0.5
	05/19/93	10.60	110 ^c	---	<0.5	<0.5	<0.5	<0.5
	08/18/93	10.28	140 ^c	---	<0.5	<0.5	<0.5	<0.5
	11/17/93	10.24	120 ^c	---	<0.5	<0.5	<0.5	<0.5
	02/18/94	8.97	180 ^c	---	1.7	0.90	2.1	4.8
MW-13 (Semi-annually 2nd & 4th Qtrs)	11/22/91	11.96	900	1,000	37	74	9.5	130
	03/18/92	10.84	900 ^d	590 ^b	24	320	28	320
	05/20/92	---	---	---	---	---	---	---
	08/19/92	12.12	7,000	470 ^b	180	150	36	150
	11/18/92	12.00	---	---	---	---	---	---
	02/11/93	---	---	---	---	---	---	---
	05/20/93	12.26	9,200	---	320	490	83	950
	11/17/93	11.78	38,000	3,800	210	1,000	<130	2,500
Field Blank	08/19/92		<50	---	<0.5	<0.5	0.5	0.5
	11/18/92		<50	---	<0.5	<0.5	<0.5	<0.5
Trailer Blank	02/15/92		<50	<50	<0.5	<0.5	<0.5	<0.5
	03/18/92		<50	---	<0.5	<0.5	<0.5	<0.5

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Table 2. Analytical Results for Ground Water - Shell Service Station WIC #204-5508-5801, 500 40th Street, Oakland, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	B	E	T	X
			-----parts per billion (µg/L)-----					
	05/21/92		<50	---	<0.5	<0.5	<0.5	<0.5
	08/19/92		<50	---	<0.5	<0.5	<0.5	<0.5
	11/18/92		<50	---	<0.5	<0.5	<0.5	<0.5
	02/11/93		<50	---	<0.5	<0.5	<0.5	<0.5
	05/20/93		<50	---	<0.5	<0.5	<0.5	<0.5
	08/18/93		<50	---	<0.5	<0.5	<0.5	<0.5
	11/17/93		<50	---	<0.5	<0.5	<0.5	<0.5
	02/18/94		<50	---	<0.5	<0.5	<0.5	<0.5
DTCS 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
 TPH-MO = Total petroleum hydrocarbons as motor oil by 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
 NE = Not established
 DTCS MCLs = California Department of Toxic Substances Control maximum contaminant levels for drinking water
 --- = Not analyzed
 ND = Not detected

Notes:

a = Duplicate sample
 b = Concentration reported as diesel is primary due to the presence of a lighter petroleum product, possible gasoline or kerosene
 c = Concentration reported as gasoline is primarily due to the presence of discrete hydrocarbon peaks not indicative of gasoline
 d = Compounds detected and calculated as gasoline do not match the standard gasoline chromatographic pattern
 e = The concentrations reported as diesel are primarily due to the presence of a lighter petroleum product of hydrocarbon range C6-C12, possibly gasoline.
 f = Well inaccessible
 g = DTSC recommended action level; MCL not established



Table 2B. Analytic Results for Ground Water - Volatile Organic Compounds - Shell Service Station WIC #204-5508-5801, 500 40th Street, Oakland, California

Well ID	Date Sampled	Depth to Water (ft)	TCE	PCE	Chloroform	cis-1,2-DCE	1,2-DCA	1,1-DCA
			parts per billion (µg/L)					
EW-1	11/18/93	12.63	5.5	<0.05	<0.05	6.8	2.4	0.69
	11/18/93 ^{dup}	12.63	5.1	---	---	6.5	2.3	0.63
MW-4	11/18/93	12.24	2.5	36	1.3	3.5	<0.5	<0.5
MW-5	11/18/93	12.89	2.0	34	1.0	1.2	<0.5	<0.5
MW-8	11/18/93	12.25	1.8	50	1.1	1.1	<1.0	<1.0
OMW-9	11/18/93	9.92	<0.5	<0.5	<0.5	0.68	<0.05	<0.05
OMW-10	11/18/93	10.32	1.7	1.9	<0.5	3.9	<0.5	<0.5
OMW-11	11/18/93	11.94	40	380 40	<10	42	<10	<10
OMW-12	11/18/93	10.24	13	400	<10	11	<10	<10
	02/18/94	8.97	14	430	<10	11	<10	<10
OMW-13	11/18/93	11.78	<10	<10	<10	<10	<10	<10
DTSC MCLs			5	5	NE	6	0.5	.5

Abbreviations:

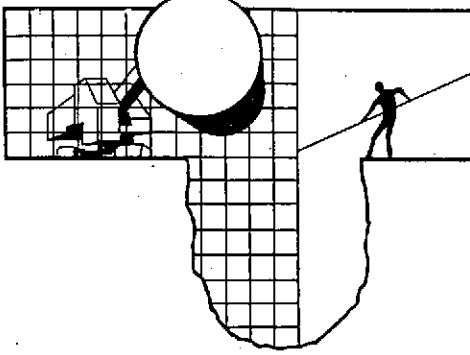
Notes:

TCE = Trichloroethene by EPA Method 601/8010 or 8240
 TCA = 1,1,1-Trichloroethane by EPA Method 601/8010 or 8240
 PCE = Tetrachloroethene by EPA Method 601/8010 or 8240
 cis-1,2-DCE = cis-1,2-Dichloroethene by EPA Method 601/8010 or 8240
 trans-1,2-DCE = trans-1,2-Dichloroethene by EPA Method 601/8010 or 8240
 --- = Not analyzed
 <n = Not detected above detection limit of n ppb
 1,2-DCA = 1,2 dichloroethane by EPA Method 601/8010 or 8240
 DTCS MCLs = Department of Toxic Substance control maximum contaminant levels
 NE = DTSC MCL not established
 ND = Analyte not detected, detection limit not known





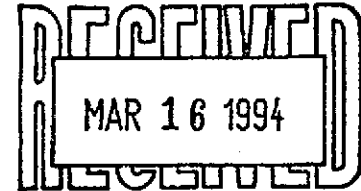
ATTACHMENT A
GROUND WATER MONITORING REPORT AND ANALYTIC REPORT



March 11, 1994

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

Attn: Lynn Walker



SITE:
Shell WIC #204-5508-4903
500 40th Street
Oakland, California

QUARTER:
1st quarter of 1994

QUARTERLY GROUNDWATER SAMPLING REPORT 940218-A-1

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

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

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8010
 ANAMETRIX, INC. (408)432-8192

Project ID : 204-5508
 Sample ID : OMW 12
 Matrix : WATER
 Date Sampled : 2/18/94
 Date Analyzed : 2/28/94
 Instrument ID : HP24

Anamatrix ID : 9402240-01
 Analyst : TM
 Supervisor : SL
 Dilution Factor : 20.0
 Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
75-71-8	Dichlorodifluoromethane	20.	ND	U
74-87-3	Chloromethane	20.	ND	U
75-01-4	Vinyl chloride	10.	ND	U
74-83-9	Bromomethane	10.	ND	U
75-00-3	Chloroethane	10.	ND	U
75-69-4	Trichlorofluoromethane	10.	ND	U
76-13-1	Trichlorotrifluoroethane	10.	ND	U
75-35-4	1,1-Dichloroethene	10.	ND	U
75-09-2	Methylene chloride	20.	ND	U
156-60-5	trans-1,2-Dichloroethene	10.	ND	U
75-34-3	1,1-Dichloroethane	10.	ND	U
156-59-2	cis-1,2-Dichloroethene	10.	11.	U
67-66-3	Chloroform	10.	ND	U
71-55-6	1,1,1-Trichloroethane	10.	ND	U
56-23-5	Carbon tetrachloride	10.	ND	U
107-06-2	1,2-Dichloroethane	10.	ND	U
79-01-6	Trichloroethene	10.	14.	U
78-87-5	1,2-Dichloropropane	10.	ND	U
75-27-4	Bromodichloromethane	10.	ND	U
110-75-8	2-Chloroethylvinylether	20.	ND	U
10061-01-5	cis-1,3-Dichloropropene	10.	ND	U
10061-02-6	trans-1,3-Dichloropropene	10.	ND	U
79-00-5	1,1,2-Trichloroethane	10.	ND	U
127-18-4	Tetrachloroethene	10.	430.	U
124-48-1	Dibromochloromethane	10.	ND	U
108-90-7	Chlorobenzene	10.	ND	U
75-25-2	Bromoform	10.	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	ND	U
541-73-1	1,3-Dichlorobenzene	10.	ND	U
106-46-7	1,4-Dichlorobenzene	10.	ND	U
95-50-1	1,2-Dichlorobenzene	10.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8010
 ANAMETRIX, INC. (408)432-8192

Project ID : 204-55
 Sample ID : VBLKB1
 Matrix : WATER
 Date Sampled : 0/ 0/ 0
 Date Analyzed : 2/28/94
 Instrument ID : HP24

Anamatrix ID : BF2802I1
 Analyst : TM
 Supervisor : ML
 Dilution Factor : 1.0
 Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
75-71-8	Dichlorodifluoromethane	1.0	ND	U
74-87-3	Chloromethane	1.0	ND	U
75-01-4	Vinyl chloride	.50	ND	U
74-83-9	Bromomethane	.50	ND	U
75-00-3	Chloroethane	.50	ND	U
75-69-4	Trichlorofluoromethane	.50	ND	U
76-13-1	Trichlorotrifluoroethane	.50	ND	U
75-35-4	1,1-Dichloroethene	.50	ND	U
75-09-2	Methylene chloride	1.0	ND	U
156-60-5	trans-1,2-Dichloroethene	.50	ND	U
75-34-3	1,1-Dichloroethane	.50	ND	U
156-59-2	cis-1,2-Dichloroethene	.50	ND	U
67-66-3	Chloroform	.50	ND	U
71-55-6	1,1,1-Trichloroethane	.50	ND	U
56-23-5	Carbon tetrachloride	.50	ND	U
107-06-2	1,2-Dichloroethane	.50	ND	U
79-01-6	Trichloroethene	.50	ND	U
78-87-5	1,2-Dichloropropane	.50	ND	U
75-27-4	Bromodichloromethane	.50	ND	U
110-75-8	2-Chloroethylvinylether	1.0	ND	U
10061-01-5	cis-1,3-Dichloropropene	.50	ND	U
10061-02-6	trans-1,3-Dichloropropene	.50	ND	U
79-00-5	1,1,2-Trichloroethane	.50	ND	U
127-18-4	Tetrachloroethene	.50	ND	U
124-48-1	Dibromochloromethane	.50	ND	U
108-90-7	Chlorobenzene	.50	ND	U
75-25-2	Bromoform	.50	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	.50	ND	U
541-73-1	1,3-Dichlorobenzene	.50	ND	U
106-46-7	1,4-Dichlorobenzene	.50	ND	U
95-50-1	1,2-Dichlorobenzene	.50	ND	U

SURROGATE RECOVERY SUMMARY -- EPA METHOD 8010
ANAMETRIX, INC. (408)432-8192

Project ID : 204-5508
Matrix : LIQUID

Anamatrix ID : 9402240
Analyst : *TM*
Supervisor : *JK*

	SAMPLE ID	SU1	SU2	SU3
1	VBLKB1	71	87	85
2	OMW 12	75	92	90
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

QC LIMITS

 SU1 = Bromochloromethane (56- 99)
 SU2 = 1-Chloro-2-fluorobenze (73-110)
 SU3 = 2-Bromochlorobenzene (65-108)

* Values outside of Anamatrix QC limits

LABORATORY CONTROL SAMPLE
 EPA METHOD 601/8010
 ANAMETRIX, INC. (408)432-8192

Sample I.D. : LABORATORY CONTROL SAMPLE
 Matrix : WATER
 SDG/Batch : 02240
 Date analyzed : 02/28/94

Anamatrix I.D. : MF2801I1
 Analyst : *TH*
 Supervisor : *sh*
 Instrument I.D. : HP24

COMPOUND	SPIKE AMOUNT (ug/L)	AMOUNT RECOVERED (ug/L)	PERCENT RECOVERY	%RECOVERY LIMITS
Trichlorotrifluoroethane	10	9.2	92%	65 - 116
1,1-Dichloroethene	10	9.5	95%	64 - 125
trans-1,2-Dichloroethene	10	9.5	95%	77 - 113
1,1-Dichloroethane	10	9.4	94%	85 - 129
cis-1,2-Dichloroethene	10	9.7	97%	78 - 130
1,1,1-Trichloroethane	10	9.4	94%	83 - 125
Trichloroethene	10	9.1	91%	76 - 124
Tetrachloroethene	10	9.5	95%	80 - 118
Chlorobenzene	10	8.8	88%	81 - 130
1,3-Dichlorobenzene	10	8.7	87%	82 - 115
1,4-Dichlorobenzene	10	8.8	88%	85 - 122
1,2-Dichlorobenzene	10	8.7	87%	86 - 122

* Limits based on data generated by Anamatrix, Inc., December, 1993.

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. JIM KELLER
BLAINE TECH
985 TIMOTHY DRIVE
SAN JOSE, CA 95133

Workorder # : 9402240
Date Received : 02/22/94
Project ID : 204-5508-4903
Purchase Order: MOH-B813
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9402240- 1	OMW 12	WATER	02/18/94	TPHgBTEX
9402240- 2	TRIP	WATER	02/18/94	TPHgBTEX

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. JIM KELLER
BLAINE TECH
985 TIMOTHY DRIVE
SAN JOSE, CA 95133

Workorder # : 9402240
Date Received : 02/22/94
Project ID : 204-5508-4903
Purchase Order: MOH-B813
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- The concentration reported as gasoline for sample OMW 12 is primarily due to the presence of a discrete peak not indicative of gasoline.

Cheryl Balmer 3/3/94
Department Supervisor Date

Luna Sker 3/3/94
Chemist Date

Organic Analysis Data Sheet
 Total Petroleum Hydrocarbons as Gasoline with BTEX
 ITS - Anamatrix Laboratories - (408)432-8192

Lab Workorder : 9402240

Client Project ID : 204-5508-4903

Matrix : WATER

Units : ug/L

Compound Name	Method Reporting Limit*	Client ID	Client ID	Client ID	Client ID	Client ID
		OMW 12	TRIP			
		Lab ID	Lab ID	Lab ID	Lab ID	Lab ID
		9402240-01	9402240-02	Method Blank		
Benzene	0.50	1.7	ND	ND		
Toluene	0.50	2.1	ND	ND		
Ethylbenzene	0.50	0.90	ND	ND		
Total Xylenes	0.50	4.8	ND	ND		
TPH as Gasoline	50	180	ND	ND		
Surrogate Recovery		90%	134%	108%		
Instrument ID		HP12	HP12	HP12		
Date Sampled		02/18/94	02/18/94	N/A		
Date Analyzed		02/28/94	02/28/94	02/28/94		
RLMF		1	1	1		
Filename Reference		FPF24001.D	FPF24002.D	BF2801E1.D		

* The Method Reporting Limit must be multiplied by the Reporting Limit Multiplication Factor (RLMF) to achieve the compound's reporting limit in the analysis.

ND : Not detected at or above the reporting limit for the analysis as performed.

TPHg : Determined by GC/FID following sample purge & trap by EPA Method 5030.

BTEX : Determined by modified EPA Method 8020 following sample purge & trap by EPA Method 5030.

Lab Control Limits for surrogate compound p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Lucia Sher 3/3/94
 Analyst Date

Cheryl Balmer 3/3/94
 Supervisor Date

Laboratory Control Spike Report
 Total Petroleum Hydrocarbons as BTEX
 ITS - Anamatrix Laboratories - (408)432-8192

Instrument ID : HP12

Analyst : IS

Matrix : LIQUID

Supervisor : 00

Units : ug/L

COMPOUND NAME	SPIKE AMOUNT	LCS RECOVERY	RECOVERY LIMITS
Benzene	20	75%	52-133
Toluene	20	75%	57-136
Ethylbenzene	20	70%	56-139
Total Xylenes	20	75%	56-141
Surrogate Recovery		101%	61-139
Date Analyzed		02/28/94	
Multiplier		1	
Filename Reference		MF2801E1.D	

* Limits established by Incape Testing Services, Anamatrix Laboratories.