R0264

Weiss Associates Environmental and Geologic Services

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

January 26, 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 #81-601-203

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 fourth quarter 1993 and proposed work for the first quarter 1994.

Fourth Quarter 1993 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 and 2) and prepared a ground water elevation contour map (Figure 2), and prepared a benzene concentration map (Figure 3).

Anticipated First 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 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 first 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

Malieka Bundy
Technical Assistant

N. Scott MacLeod, R.G.
Project Geologist

MB/NSM:mb

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

cc: Dan Kirk, Shell, 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

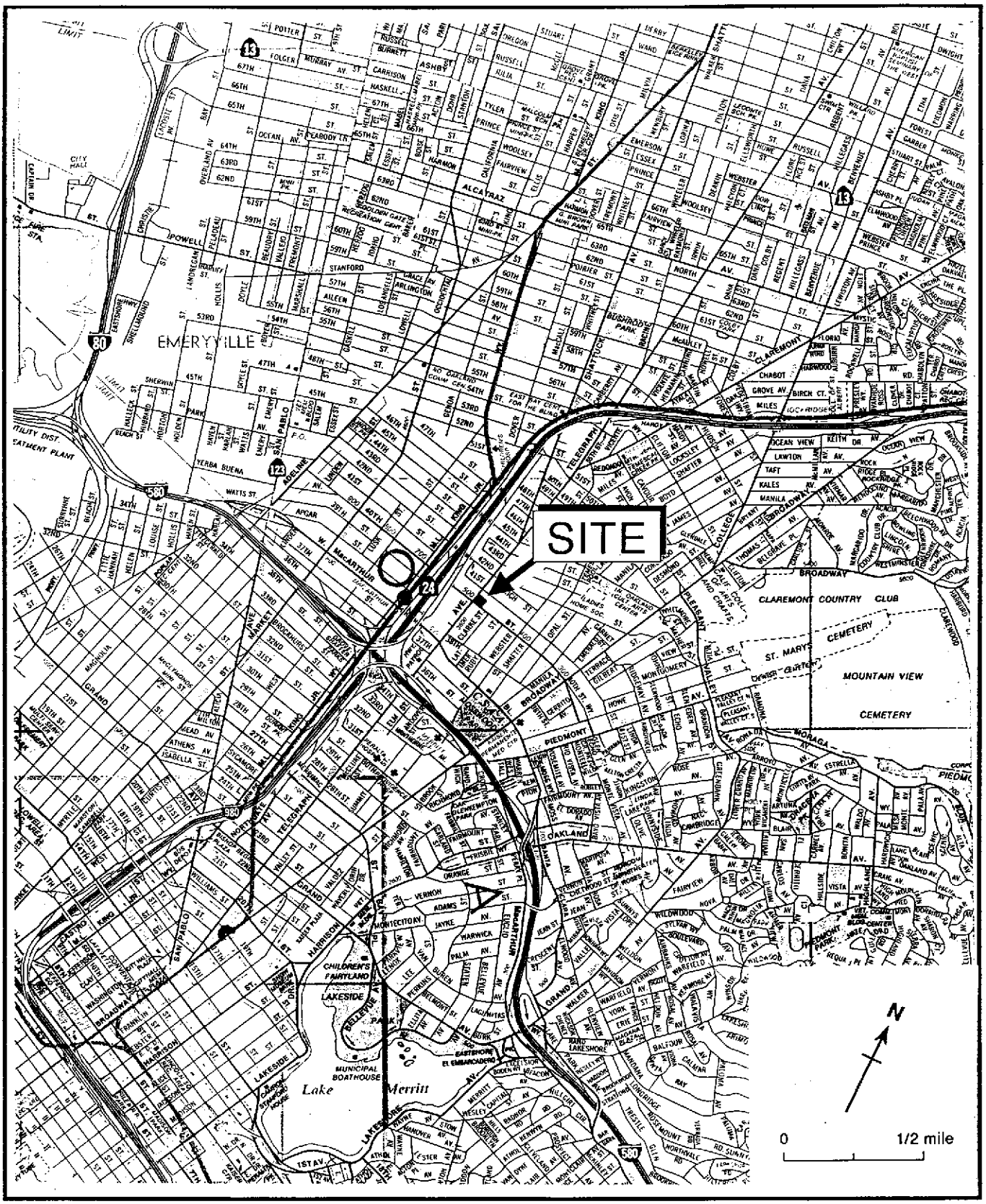

Figure 1. Site Location Map - Shell Service Station WIC #204-5508-4903, 500 40th Street, Oakland, California

2/28/92

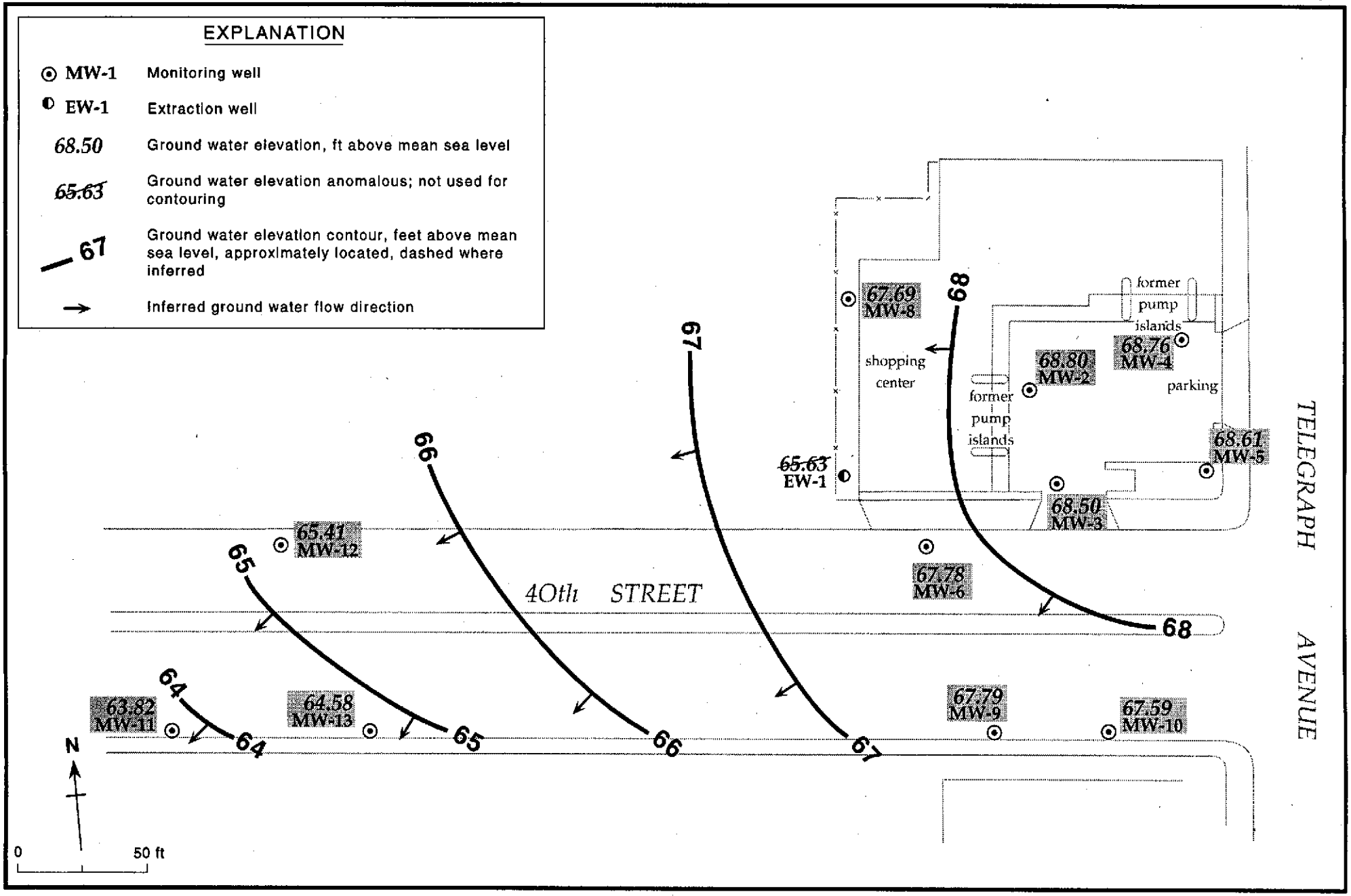

Figure 2. Monitoring Well Locations and Ground Water Elevation Contours - November 11, 1993 - Shell Service Station, WIC #204-5508-4903, 500 40th Street, Oakland, California

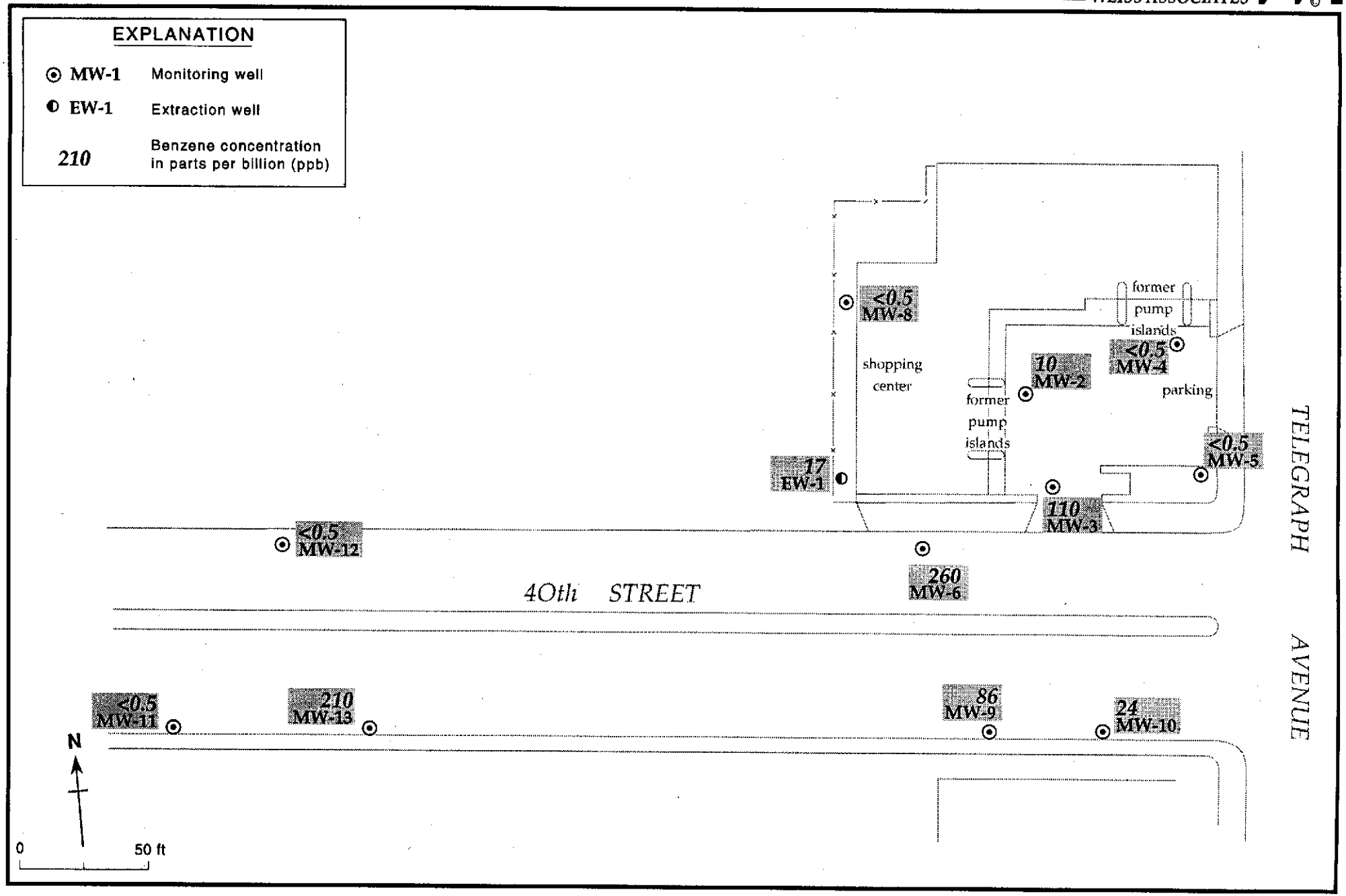

Figure 3. Monitoring Well Locations and Benzene Concentrations in Ground Water - November 11, 1993 - Shell Service Station, WIC #204-5508-4903, 500 40th Street, Oakland, California

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**
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**
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**
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
	08/19/92		12.41	68.59
	11/18/92		12.28	68.72
	02/11/93		11.65	69.35

-- 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)
	05/19/93		11.92	69.08
	08/18/93[a]		---	---
	11/17/93		**12.24**	**68.76**
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**
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**
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
	08/18/93		12.22	67.69
	11/17/93		**12.25**	**67.66**
MW-9	08/06/91	77.71	10.38	67.33
	10/30/91		---	---
	03/18/92		8.76	68.95

-- 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)
	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**
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**
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**
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**

-- 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-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**

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	08/06/91	---	180	<50	5.4	0.9	<0.5	0.7
(Semi-annually	10/30/91	12.72	70	<50	2.6	<0.5	<0.5	<0.5
2nd & 4th Qtrs)	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[a]	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	08/07/91	12.12	1,200	230	59	38	1.1	56
(Semi-annually	10/30/91	11.70	520	300	56	56	<0.5	100
2nd & 4th Qtrs)	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[a]	12.18	840	---	31	36	<2.5	43
	11/18/92	12.03	920	---	19	30	<2.5	51
	11/18/92[a]	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	08/07/91	11.12	1,900	470	220	57	57	260
(Semi-annually	10/30/91	10.93	1,900	480	160	63	28	180
2nd & 4th Qtrs)	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	08/07/91	12.36	<50	<50	<0.5	<0.5	<0.5	<0.5
(Semi-annually	10/30/91	12.02	50	<50	<0.5	<0.5	<0.5	<0.5
2nd & 4th Qtrs)	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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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**

-- Table 2 continues on next page --

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-10	08/07/91	10.00	460	<50	73	18	1.0	8.4
(Semi-annually	10/31/91	10.10	630	150[b]	100	33	<0.5	26
2nd & 4th Qtrs)	02/15/92	9.55	810	570[b]	85	44	2.5	38
	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	11/22/91	11.90	450	240	1.1	<0.5	<0.5	<0.5
(Quarterly)	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[e]	<0.5	<0.5	3.6	<0.5
MW-12	12/02/91	10.31	<1,000	<50	<0.5	<0.5	<0.5	<0.5
(Quarterly)	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
MW-13	11/22/91	11.96	900	1,000[b]	37	74	9.5	130
(Semi-annually	03/18/92	10.84	900[d]	590[b]	24	320	28	320
2nd & 4th Qtrs)	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	02/15/92		<50	<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)---------->					
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
	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**
DTCS MCLs			NE	NE	1	680	100[f]	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
DTSC 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 = DTSC recommended action level; MCL not established

ATTACHMENT A

GROUND WATER MONITORING REPORT AND ANALYTIC REPORT

BLAINE
TECH SERVICES INC.

985 TIMOTHY DRIVE
SAN JOSE, CA 9513
(408) 995-553
FAX (408) 293-877

December 16, 1993

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:
4th quarter of 1993

QUARTERLY GROUNDWATER SAMPLING REPORT 931117-F-1

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

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

STANDARD PROCEDURES

Evacuation

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

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

Decontamination

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

Free Product Skimmer

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

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

Sample Containers

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

Sampling

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

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

Sample Designations

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

Chain of Custody

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

Hazardous Materials Testing Laboratory

The samples obtained at this site were delivered to Anametrix, Inc. in San Jose, California. Anametrix, Inc. is a California Department of Health Services certified Hazardous Materials Testing Laboratory and is listed as DOHS HMTL #1234.

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/mla

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

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

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-2	11/17/93	TOC	--	NONE	--	--	12.00	19.50
MW-3	11/17/93	TOC	--	NONE	--	--	11.10	18.70
MW-4	11/17/93	TOC	--	NONE	--	--	12.24	14.91
MW-5	11/17/93	TOC	--	NONE	--	--	12.89	20.16
MW-8	11/17/93	TOC	--	NONE	--	--	12.25	38.74
OMW-6	11/17/93	TOC	SHEEN/ODOR	--	--	--	10.12	20.15
OMW-9	11/17/93	TOC	ODOR	NONE	--	--	9.92	19.20
OMW-10	11/17/93	TOC	--	NONE	--	--	10.32	16.03
OMW-11	11/17/93	TOC	--	NONE	--	--	11.94	19.74
OMW-12	11/17/93	TOC	--	NONE	--	--	10.24	19.49
OMW-13	11/17/93	TOC	ODOR	NONE	--	--	11.78	21.06
EW-1 *	11/17/93	TOC	ODOR	NONE	--	--	12.63	38.48

*Sample DUP was a duplicate sample taken from well EW-1.

#292   9311293   (18)   (10/28)   21:30 MB

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 931117 F1

Date: 11/18/93
Page 1 of 2

Site Address: 500 40th Street, Oakland

WIC#: 204-5508-4903

Shell Engineer: Lynn Walker
Phone No.: (510) 675-6169
Fax #: 675-6172

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: [signature]

Printed Name: Tom Flory

LAB: Anametrix

CHECK ONE (1) BOX ONLY	CT/DT	TURN AROUND TIME
Quarterly Monitoring [X]	5461	24 hours [ ]
Site Investigation [ ]	5441	48 hours [ ]
Soil Classify/Disposal [ ]	5442	16 days [X] (Normal)
Water Classify/Disposal [ ]	5443	Other [ ]
Soil/Air Rem. or Sys. O & M [ ]	5452	NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.
Water Rem. or Sys. O & M [ ]	5453	
Other [ ]		

Analysis Required

	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	EPA 601		Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
1	EW-1	11/17/93			X		6						X	X			40 ml VOA	HCl			
2	MW-2	11/17/93			X		3						X				ǀ	ǀ			
3	MW-3	11/17/93			X		3						X				ǀ	ǀ			
4	MW-4	11/17/93			X		6						X	X			ǀ	ǀ			
5	MW-5	11/17/93			X		6						X	X			ǀ	ǀ			
6	MW-8	11/17/93			X		6						X	X			ǀ	ǀ			
7	OMW-10	11/17/93			X		6						X	X			ǀ	ǀ			
8	OMW-6	11/17/93			X		3						X				ǀ	ǀ			

Relinquished By (signature):	Printed Name:	Date/Time	Received (signature):	Printed Name:	Date/Time
[signature]	Tom Flory	Date: 11-22-93 Time: 1605	[signature]	Benny S. Carrizosa	Date: 11-22-93 Time: 1605
[signature]	Benny S. Carrizosa	Date: 11-22-93 Time: 1630	[signature]	Maria Barajas	Date: 11/22/93 Time: 1630
		Date: Time:			Date: Time:

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

#297 9311293 (17) 10/28

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 93110E1

Date: 11/18/93
Page 2 of 2

Site Address: 500 40th Street, Oakland

WIC#: 204-5508-4903

Shell Engineer: Lynn Walker — Phone No.: (510) 675-6169 Fax #: 675-6172

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: [signature]

Printed Name: Tom Flory

LAB: Anametrix

CHECK ONE (1) BOX ONLY — QT/DT

- Quarterly Monitoring ☒ 8441
- Site Investigation ☐ 8441
- Soil Closure/Disposal ☐ 8442
- Water Closure/Disposal ☐ 8443
- Soil/Air Rem. or Sys. O & M ☐ 8442
- Water Rem. or Sys. O & M ☐ 8443
- Other ☐

TURN AROUND TIME

- 24 hours ☐
- 48 hours ☐
- 15 days ☒ (Normal)
- Other ☐ ___

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

Analysis Required

	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	EPA 601		Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
(9)	EB	11/17/93			X		6						X				40 ml VOA	HCl			
(10)	TB	11/17/93			X		2						X								
(11)	Dup	11/17/93			X		6						X	X							
(12)	OMW-9	11/18/93			X		8		X				X	X							
(13)	OMW-11	11/18/93			X		8		X				X	X							
(14)	OMW-13	11/18/93			X		8		X				X	X							
(15)	OMW-12	11/18/93			X		6						X	X							this sample was received but not written

Relinquished By (signature): [signature]	Printed Name: Tom Flory	Date: 11-22-93 Time: 1605	Received (signature): [signature]	Printed Name: Benny S. Carrizosa	Date: 11-22-93 Time: 1605
Relinquished By (signature): [signature]	Printed Name: Benny S. Carrizosa	Date: 11-22-93 Time: 1630	Received (signature): [signature]	Printed Name: Maria Barajas	Date: 11/22/93 Time: 16:30
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

Inchcape Testing Services
Anametrix Laboratories

1961 Concourse Drive
Suite E
San Jose, CA 95131
Tel: 408-432-8192
Fax: 408-432-8198

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

Workorder # : 9311293
Date Received : 11/22/93
Project ID : 204-5508-4903
Purchase Order: MOH-B813

The following samples were received at Anametrix, Inc. for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9311293- 1	EW-1
9311293- 2	MW-2
9311293- 3	MW-3
9311293- 4	MW-4
9311293- 5	MW-5
9311293- 6	MW-8
9311293- 7	OMW-10
9311293- 8	OMW-6
9311293- 9	EB
9311293-10	TB
9311293-11	DUP
9311293-12	OMW-9
9311293-13	OMW-11
9311293-14	OMW-13
9311293-15	OMW-12

This report consists of 36 pages not including the cover letter, and is organized in sections according to the specific Anametrix laboratory group or section which performed the analysis(es) and generated the data. The Report Summary that precedes each section will help you determine which Anametrix group is responsible for those test results, and will bear the signatures of the department supervisor and the chemist who have reviewed the analytical data. Please refer all questions to the department supervisor who signed the form.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234. A detailed list of the approved fields of testing can be obtained by calling our office, or the DHS Environmental Laboratory Accreditation Program at (415)540-2800.

If you have any further questions or comments on this report, please give us a call as soon as possible. Thank you for using Anametrix.

Corinne Pham for
Sarah Schoen, Ph.D.
Laboratory Director

12/09/93
Date

ANAMETRIX REPORT DESCRIPTION
GC

Organic Analysis Data Sheets (OADS)

OADS forms contain tabulated results for target compounds. The OADS are grouped by method and, within each method, organized sequentially in order of increasing Anametrix ID number.

Surrogate Recovery Summary (SRS)

SRS forms contain quality assurance data. An SRS form will be printed for each method, if the method requires surrogate compounds. They will list surrogate percent recoveries for all samples and any method blanks. Any surrogate recovery outside the established limits will be flagged with an "*", and the total number of surrogates outside the limits will be listed in the column labelled "Total Out".

Matrix Spike Recovery Form (MSR)

MSR forms contain quality assurance data. They summarize percent recovery and relative percent difference information for matrix spikes and matrix spike duplicates. This information is a statement of both accuracy and precision. Any percent recovery or relative percent difference outside established limits will be flagged with an "*", and the total number outside the limits will be listed at the bottom of the page. Not all reports will contain an MSR form.

Qualifiers

Anametrix uses several data qualifiers (Q) in its report forms. These qualifiers give additional information on the compounds reported. They should help a data reviewer to verify the integrity of the analytical results. The following is a list of qualifiers and their meanings:

- U - Indicates that the compound was analyzed for, but was not detected at or above the specified reporting limit.
- B - Indicates that the compound was detected in the associated method blank.
- J - Indicates that the compound was detected at an amount below the specified reporting limit. Consequently, the amount should be considered an approximate value. Tentatively identified compounds will always have a "J" qualifier because they are not included in the instrument calibration.
- E - Indicates that the reported amount exceeded the linear range of the instrument calibration.
- D - Indicates that the compound was detected in an analysis performed at a secondary dilution.

Absence of a qualifier indicates that the compound was detected at a concentration at or above the specified reporting limit.

REPORTING CONVENTIONS

- Due to a size limitation in our data processing step, only the first eight (8) characters of your project ID and sample ID will be printed on the report forms. However, the report cover letter and report summary pages display up to twenty (20) characters of your project and sample IDs.
- Amounts reported are gross values, i.e., not corrected for method blank contamination.

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

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

Workorder # : 9311293
Date Received : 11/22/93
Project ID : 204-5508-4903
Purchase Order: MOH-B813
Department : GC
Sub-Department: VOA

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9311293- 1	EW-1	WATER	11/17/93	8010
9311293- 4	MW-4	WATER	11/17/93	8010
9311293- 5	MW-5	WATER	11/17/93	8010
9311293- 6	MW-8	WATER	11/17/93	8010
9311293- 7	OMW-10	WATER	11/17/93	8010
9311293-11	DUP	WATER	11/17/93	8010
9311293-12	OMW-9	WATER	11/18/93	8010
9311293-13	OMW-11	WATER	11/18/93	8010
9311293-14	OMW-13	WATER	11/18/93	8010
9311293-15	OMW-12	WATER	11/17/93	8010

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

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

Workorder # : 9311293
Date Received : 11/22/93
Project ID : 204-5508-4903
Purchase Order: MOH-B813
Department : GC
Sub-Department: VOA

QA/QC SUMMARY :

- Sample OMW-13 was diluted due to the presence of high levels of hydrocarbons.

M. Hasselman 12/1/93
Department Supervisor Date

Taghi Memarzadeh 12/01/93
Chemist Date

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

Project ID : 204-5508
Sample ID : EW-1
Matrix : WATER
Date Sampled :11/17/93
Date Analyzed :11/29/93
Instrument ID : HP24

Anametrix ID : 9311293-01
Analyst : TT
Supervisor : DL

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	.69	
156-59-2	cis-1,2-Dichloroethene	.50	6.8	
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	2.4	
79-01-6	Trichloroethene	.50	5.5	
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

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

Project ID : 204-5508
Sample ID : MW-4
Matrix : WATER
Date Sampled :11/17/93
Date Analyzed :11/25/93
Instrument ID : AD15

Anametrix ID : 9311293-04
Analyst : TM
Supervisor : DL

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	3.5	
67-66-3	Chloroform	.50	1.3	
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	2.5	
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	36.	
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

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

Project ID : 204-5508
Sample ID : MW-5
Matrix : WATER
Date Sampled :11/17/93
Date Analyzed :11/25/93
Instrument ID : AD15

Anametrix ID : 9311293-05
Analyst : TM
Supervisor : [illegible]

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	1.2	
67-66-3	Chloroform	.50	1.0	
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	2.0	
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	34.	
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

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

Project ID : 204-5508
Sample ID : MW-8
Matrix : WATER
Date Sampled :11/17/93
Date Analyzed :11/29/93
Instrument ID : HP24

Anametrix ID : 9411293-06
Analyst : TM
Supervisor : NL

Dilution Factor : 2.0
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
75-71-8	Dichlorodifluoromethane	2.0	ND	U
74-87-3	Chloromethane	2.0	ND	U
75-01-4	Vinyl chloride	1.0	ND	U
74-83-9	Bromomethane	1.0	ND	U
75-00-3	Chloroethane	1.0	ND	U
75-69-4	Trichlorofluoromethane	1.0	ND	U
76-13-1	Trichlorotrifluoroethane	1.0	ND	U
75-35-4	1,1-Dichloroethene	1.0	ND	U
75-09-2	Methylene chloride	2.0	ND	U
156-60-5	trans-1,2-Dichloroethene	1.0	ND	U
75-34-3	1,1-Dichloroethane	1.0	ND	U
156-59-2	cis-1,2-Dichloroethene	1.0	1.1	
67-66-3	Chloroform	1.0	1.1	
71-55-6	1,1,1-Trichloroethane	1.0	ND	U
56-23-5	Carbon tetrachloride	1.0	ND	U
107-06-2	1,2-Dichloroethane	1.0	ND	U
79-01-6	Trichloroethene	1.0	1.8	
78-87-5	1,2-Dichloropropane	1.0	ND	U
75-27-4	Bromodichloromethane	1.0	ND	U
110-75-8	2-Chloroethylvinylether	2.0	ND	U
10061-01-5	cis-1,3-Dichloropropene	1.0	ND	U
10061-02-6	trans-1,3-Dichloropropene	1.0	ND	U
79-00-5	1,1,2-Trichloroethane	1.0	ND	U
127-18-4	Tetrachloroethene	1.0	50.	
124-48-1	Dibromochloromethane	1.0	ND	U
108-90-7	Chlorobenzene	1.0	ND	U
75-25-2	Bromoform	1.0	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	ND	U
541-73-1	1,3-Dichlorobenzene	1.0	ND	U
106-46-7	1,4-Dichlorobenzene	1.0	ND	U
95-50-1	1,2-Dichlorobenzene	1.0	ND	U

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

Project ID : 204-5508
Sample ID : OMW-10
Matrix : WATER
Date Sampled :11/17/93
Date Analyzed :11/29/93
Instrument ID : HP24

Anametrix ID : 9311293-07
Analyst : TM
Supervisor : [illegible]

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	3.9	
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	1.7	
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	1.9	
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

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

Project ID : 204-5508
Sample ID : DUP
Matrix : WATER
Date Sampled :11/17/93
Date Analyzed :11/29/93
Instrument ID : HP24

Anametrix ID : 9311293-11
Analyst : TM
Supervisor : DL

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	.63	
156-59-2	cis-1,2-Dichloroethene	.50	6.5	
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	2.3	
79-01-6	Trichloroethene	.50	5.1	
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

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

Project ID	: 204-5508	Anametrix ID	: 9311293-12
Sample ID	: OMW-9	Analyst	: TM
Matrix	: WATER	Supervisor	: pl
Date Sampled	:11/18/93		
Date Analyzed	:11/30/93	Dilution Factor	: 1.0
Instrument ID	: HP24	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	.68	
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

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

Project ID : 204-5508
Sample ID : OMW-11
Matrix : WATER
Date Sampled :11/18/93
Date Analyzed :11/30/93
Instrument ID : HP24

Anametrix ID : 9311293-13
Analyst : TM
Supervisor : [illegible]

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.	42.	
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.	40.	
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.	380.	
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 : 204-5508
Sample ID : OMW-13
Matrix : WATER
Date Sampled :11/18/93
Date Analyzed :11/30/93
Instrument ID : HP24

Anametrix ID : 9311293-14
Analyst : TM
Supervisor : [illegible]

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.	ND	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.	ND	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.	ND	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 : 204-5508
Sample ID : OMW-12
Matrix : WATER
Date Sampled :11/17/93
Date Analyzed :12/ 1/93
Instrument ID : HP24

Anametrix ID : 9311293-15
Analyst : TM
Supervisor : [illegible]

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.	
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.	13.	
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.	400.	
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 : VBLKA1
Matrix : WATER
Date Sampled : 0/ 0/ 0
Date Analyzed :11/25/93
Instrument ID : AD15

Anametrix ID : BN2403I1
Analyst : TM
Supervisor : JL

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

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 :11/29/93
Instrument ID. : HP24

Anametrix ID : BN2902I1
Analyst : TM
Supervisor : sh

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

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 :11/30/93
Instrument ID : HP24

Anametrix ID : BN3002I1
Analyst : TM
Supervisor : sh

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

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

Project ID : 204-55
Sample ID : VBLKB2
Matrix : WATER
Date Sampled : 0/ 0/ 0
Date Analyzed :11/30/93
Instrument ID : HP24

Anametrix ID : BN3004I1
Analyst : TM
Supervisor : sh

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

Anametrix ID : 9311293
Analyst : TM
Supervisor : [illegible]

	SAMPLE ID	SU1	SU2	SU3
1	VBLKA1	59	75	71
2	MW-4	65	80	67
3	MW-5	63	80	67
4				
5				
6				
7				
8				
9				
10				
11				
12				
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17				
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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 Anametrix QC limits

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

Project ID : 204-5508
Matrix : LIQUID

Anametrix ID : 9311293
Analyst : TM
Supervisor : sk

	SAMPLE ID	SU1	SU2	SU3
1	VBLKB1	66	81	82
2	EW-1	82	89	91
3	MW-8	76	90	91
4	OMW-10	74	88	92
5	DUP	82	89	94
6	DUP MS	81	94	94
7	DUP MSD	82	92	91
8	VBLKB1	67	83	82
9	OMW-13	72	89	91
10	VBLKB2	69	87	84
11	OMW-9	67	84	83
12	0MW-11	71	85	76
13	OMW-12	67	85	77
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 Anametrix QC limits

MATRIX SPIKE RECOVERY FORM -- EPA METHOD 8010
ANAMETRIX, INC. (408)432-8192

Project ID : 204-5508
Sample ID : DUP
Matrix : WATER
Date Sampled :11/17/93
Date Analyzed :11/29/93
Instrument ID : HP24

Anametrix ID : 9311293-11
Analyst : TM
Supervisor : [illegible]

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	%REC LIMITS
Trichlorotrifluoroethan	10.0	.0	6.9	69	42-111
1,1-Dichloroethene	10.0	.0	8.5	85	47-128
trans-1,2-Dichloroethen	10.0	.0	8.2	82	63-110
1,1-Dichloroethane	10.0	.6	9.7	90	72-128
cis-1,2-Dichloroethene	10.0	6.5	14.7	82	62-126
1,1,1-Trichloroethane	10.0	.0	8.4	84	65-128
Trichloroethene	10.0	5.1	12.7	76	64-115
Tetrachloroethene	10.0	.0	8.8	88	64-111
Chlorobenzene	10.0	.0	8.8	88	75-124
1,3-Dichlorobenzene	10.0	.0	9.1	91	68-119
1,4-Dichlorobenzene	10.0	.0	9.1	91	72-125
1,2-Dichlorobenzene	10.0	.0	9.4	94	70-131

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	RPD LIMITS	%REC LIMITS
Trichlorotrifluoroethan	10.0	6.7	67	4	25	42-111
1,1-Dichloroethene	10.0	8.3	83	3	25	47-128
trans-1,2-Dichloroethen	10.0	8.2	82	0	25	63-110
1,1-Dichloroethane	10.0	9.8	92	1	25	72-128
cis-1,2-Dichloroethene	10.0	15.3	87	6	25	62-126
1,1,1-Trichloroethane	10.0	8.4	84	0	25	65-128
Trichloroethene	10.0	12.7	76	1	25	64-115
Tetrachloroethene	10.0	8.4	84	4	25	64-111
Chlorobenzene	10.0	8.6	86	2	25	75-124
1,3-Dichlorobenzene	10.0	8.8	88	3	25	68-119
1,4-Dichlorobenzene	10.0	8.7	87	4	25	72-125
1,2-Dichlorobenzene	10.0	9.2	92	2	25	70-131

* Value is outside of Anametrix QC limits

RPD: 0 out of 12 outside limits
Spike Recovery: 0 out of 24 outside limits

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

Sample I.D. : LABORATORY CONTROL SAMPLE
Matrix : WATER
SDG/Batch : 11293
Date analyzed : 11/24/93

Anametrix I.D. : MN2403I1
Analyst : TM
Supervisor : pk
Instrument I.D.: AD15

COMPOUND	SPIKE AMOUNT (ug/L)	AMOUNT RECOVERED (ug/L)	PERCENT RECOVERY	%RECOVERY LIMITS
Trichlorotrifluoroethane	10	8.6	86%	65 - 116
1,1-Dichloroethene	10	8.5	85%	64 - 125
trans-1,2-Dichloroethene	10	8.7	87%	77 - 113
1,1-Dichloroethane	10	9.6	96%	85 - 129
cis-1,2-Dichloroethene	10	9.1	91%	78 - 130
1,1,1-Trichloroethane	10	8.8	88%	83 - 125
Trichloroethene	10	9.0	90%	76 - 124
Tetrachloroethene	10	8.9	89%	80 - 118
Chlorobenzene	10	9.3	93%	81 - 130
1,3-Dichlorobenzene	10	8.6	86%	82 - 115
1,4-Dichlorobenzene	10	8.6	86%	85 - 122
1,2-Dichlorobenzene	10	8.6	86%	86 - 122

* Limits based on data generated by Anametrix, Inc., November, 1993.

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

Sample I.D. : LABORATORY CONTROL SAMPLE
Matrix : WATER
SDG/Batch : 11293
Date analyzed : 11/29/93

Anametrix I.D. : MN2901I1
Analyst : TM
Supervisor : Ah
Instrument I.D.: HP24

COMPOUND	SPIKE AMOUNT (ug/L)	AMOUNT RECOVERED (ug/L)	PERCENT RECOVERY	%RECOVERY LIMITS
Trichlorotrifluoroethane	10	6.8	68%	65 - 116
1,1-Dichloroethene	10	8.3	83%	64 - 125
trans-1,2-Dichloroethene	10	8.3	83%	77 - 113
1,1-Dichloroethane	10	9.0	90%	85 - 129
cis-1,2-Dichloroethene	10	9.0	90%	78 - 130
1,1,1-Trichloroethane	10	8.3	83%	83 - 125
Trichloroethene	10	8.5	85%	76 - 124
Tetrachloroethene	10	8.5	85%	80 - 118
Chlorobenzene	10	8.5	85%	81 - 130
1,3-Dichlorobenzene	10	8.6	86%	82 - 115
1,4-Dichlorobenzene	10	8.5	85%	85 - 122
1,2-Dichlorobenzene	10	8.8	88%	86 - 122

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

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

Sample I.D.	: LABORATORY CONTROL SAMPLE	Anametrix I.D.	: MN3001I1
Matrix	: WATER	Analyst	: TM
SDG/Batch	: 11293	Supervisor	:
Date analyzed	: 11/30/93	Instrument I.D.	: HP24

COMPOUND	SPIKE AMOUNT (ug/L)	AMOUNT RECOVERED (ug/L)	PERCENT RECOVERY	%RECOVERY LIMITS
Trichlorotrifluoroethane	10	8.2	82%	65 - 116
1,1-Dichloroethene	10	9.9	99%	64 - 125
trans-1,2-Dichloroethene	10	9.7	97%	77 - 113
1,1-Dichloroethane	10	10.5	105%	85 - 129
cis-1,2-Dichloroethene	10	10.6	106%	78 - 130
1,1,1-Trichloroethane	10	10.0	100%	83 - 125
Trichloroethene	10	10.0	100%	76 - 124
Tetrachloroethene	10	9.7	97%	80 - 118
Chlorobenzene	10	9.7	97%	81 - 130
1,3-Dichlorobenzene	10	9.9	99%	82 - 115
1,4-Dichlorobenzene	10	9.8	98%	85 - 122
1,2-Dichlorobenzene	10	10.0	100%	86 - 122

* Limits based on data generated by Anametrix, Inc., November, 1993.

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

Sample I.D. : LABORATORY CONTROL SAMPLE
Matrix : WATER
SDG/Batch : 11293
Date analyzed : 11/30/93

Anametrix I.D. : MN3002I1
Analyst : TM
Supervisor : [illegible]
Instrument I.D.: HP24

COMPOUND	SPIKE AMOUNT (ug/L)	AMOUNT RECOVERED (ug/L)	PERCENT RECOVERY	%RECOVERY LIMITS
Trichlorotrifluoroethane	10	6.9	69%	65 - 116
1,1-Dichloroethene	10	9.2	92%	64 - 125
trans-1,2-Dichloroethene	10	9.0	90%	77 - 113
1,1-Dichloroethane	10	10.0	100%	85 - 129
cis-1,2-Dichloroethene	10	9.9	99%	78 - 130
1,1,1-Trichloroethane	10	9.3	93%	83 - 125
Trichloroethene	10	9.1	91%	76 - 124
Tetrachloroethene	10	8.6	86%	80 - 118
Chlorobenzene	10	8.9	89%	81 - 130
1,3-Dichlorobenzene	10	8.8	88%	82 - 115
1,4-Dichlorobenzene	10	8.7	87%	85 - 122
1,2-Dichlorobenzene	10	9.0	90%	86 - 122

* Limits based on data generated by Anametrix, Inc., November, 1993.

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

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

Workorder # : 9311293
Date Received : 11/22/93
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
9311293-12	OMW-9	WATER	11/18/93	TPHd
9311293-13	OMW-11	WATER	11/18/93	TPHd
9311293-14	OMW-13	WATER	11/18/93	TPHd
9311293- 1	EW-1	WATER	11/17/93	TPHgBTEX
9311293- 2	MW-2	WATER	11/17/93	TPHgBTEX
9311293- 3	MW-3	WATER	11/17/93	TPHgBTEX
9311293- 4	MW-4	WATER	11/17/93	TPHgBTEX
9311293- 5	MW-5	WATER	11/17/93	TPHgBTEX
9311293- 6	MW-8	WATER	11/17/93	TPHgBTEX
9311293- 7	OMW-10	WATER	11/17/93	TPHgBTEX
9311293- 8	OMW-6	WATER	11/17/93	TPHgBTEX
9311293- 9	EB	WATER	11/17/93	TPHgBTEX
9311293-10	TB	WATER	11/17/93	TPHgBTEX
9311293-11	DUP	WATER	11/17/93	TPHgBTEX
9311293-12	OMW-9	WATER	11/18/93	TPHgBTEX
9311293-13	OMW-11	WATER	11/18/93	TPHgBTEX
9311293-14	OMW-13	WATER	11/18/93	TPHgBTEX
9311293-15	OMW-12	WATER	11/17/93	TPHgBTEX

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

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

Workorder # : 9311293
Date Received : 11/22/93
Project ID : 204-5508-4903
Purchase Order: MOH-B813
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- The concentrations reported as gasoline for samples OMW-11 and OMW-12 are primarily due to the presence of a discrete peak not indicative of gasoline.
- The concentrations reported as diesel for samples OMW-9 and OMW-13 are primarily due to the presence of a lighter petroleum product of hydrocarbon range C6-C12, possibly gasoline.

Cheryl Bachman 12/9/93
Department Supervisor Date

Dana Shea 12/9/93
Chemist Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS
(GASOLINE WITH BTEX)
ANAMETRIX, INC. - (408) 432-8192

Anametrix W.O.: 9311293
Matrix : WATER
Date Sampled : 11/17/93

Project Number : 204-5508-4903
Date Released : 12/06/93

COMPOUNDS	Reporting Limit (ug/L)	Sample I.D.# EW-1 -01	Sample I.D.# MW-2 -02	Sample I.D.# MW-3 -03	Sample I.D.# MW-4 -04	Sample I.D.# MW-5 -05
Benzene	0.5	17	10	110	ND	ND
Toluene	0.5	ND	<1.0	13	ND	ND
Ethylbenzene	0.5	ND	26	60	ND	ND
Total Xylenes	0.5	ND	20	150	ND	ND
TPH as Gasoline	50	170	250	1000	ND	ND
% Surrogate Recovery		104%	113%	109%	103%	103%
Instrument I.D.		HP21	HP21	HP21	HP21	HP21
Date Analyzed		11/24/93	11/24/93	11/30/93	11/24/93	11/24/93
RLMF		1	2	5	1	1

ND - Not detected at or above the practical quantitation limit for the method.
TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using modified EPA Method 8015 following sample purge and trap by EPA Method 5030.
BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020 following sample purge and trap by EPA Method 5030.
RLMF - Reporting Limit Multiplication Factor (Dilution).

Anametrix control limits for surrogate p-Bromofluorobenzene recovery are 61-139%.

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

C R Patel 12/07/93
Analyst Date

Cheryl Balmer 12/7/93
Supervisor Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS
(GASOLINE WITH BTEX)
ANAMETRIX, INC. - (408) 432-8192

Anametrix W.O.: 9311293
Matrix : WATER
Date Sampled : 11/17/93

Project Number : 204-5508-4903
Date Released : 12/06/93

COMPOUNDS	Reporting Limit (ug/L)	Sample I.D.# MW-8 -06	Sample I.D.# OMW-10 -07	Sample I.D.# OMW-6 -08	Sample I.D.# EB -09	Sample I.D.# TB -10
Benzene	0.5	ND	24	260	ND	ND
Toluene	0.5	ND	<1.0	64	ND	ND
Ethylbenzene	0.5	ND	2.8	430	ND	ND
Total Xylenes	0.5	ND	1.9	1900	ND	ND
TPH as Gasoline	50	ND	400	14000	ND	ND
% Surrogate Recovery		105%	115%	112%	113%	110%
Instrument I.D.		HP21	HP21	HP21	HP21	HP21
Date Analyzed		11/24/93	11/24/93	11/24/93	11/24/93	11/25/93
RLMF		1	2	100	1	1

ND - Not detected at or above the practical quantitation limit for the method.
TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using modified EPA Method 8015 following sample purge and trap by EPA Method 5030.
BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020 following sample purge and trap by EPA Method 5030.
RLMF - Reporting Limit Multiplication Factor (Dilution).

Anametrix control limits for surrogate p-Bromofluorobenzene recovery are 61-139%.

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

(R Patel) 12/07/93
Analyst Date

Cheryl Bairmen 12/7/93
Supervisor Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS
(GASOLINE WITH BTEX)
ANAMETRIX, INC. - (408) 432-8192

Anametrix W.O.: 9311293
Matrix : WATER
Date Sampled : 11/17-18/93

Project Number : 204-5508-4903
Date Released : 12/06/93

COMPOUNDS	Reporting Limit (ug/L)	Sample I.D.# DUP -11	Sample I.D.# OMW-9 -12	Sample I.D.# OMW-11 -13	Sample I.D.# OMW-13 -14	Sample I.D.# OMW-12 -15
Benzene	0.5	17	86	ND	210	ND
Toluene	0.5	ND	14	3.6	<130	ND
Ethylbenzene	0.5	ND	150	ND	1000	ND
Total Xylenes	0.5	ND	46	ND	2500	ND
TPH as Gasoline	50	190	5900	150	38000	120
% Surrogate Recovery		111%	118%	106%	108%	102%
Instrument I.D.		HP21	HP21	HP21	HP21	HP21
Date Analyzed		11/24/93	11/30/93	11/24/93	12/01/93	11/24/93
RLMF		1	25	1	250	1

ND - Not detected at or above the practical quantitation limit for the method.
TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using modified EPA Method 8015 following sample purge and trap by EPA Method 5030.
BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020 following sample purge and trap by EPA Method 5030.
RLMF - Reporting Limit Multiplication Factor (Dilution).

Anametrix control limits for surrogate p-Bromofluorobenzene recovery are 61-139%.

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

DRPatel 12/07/93
Analyst Date

Cheryl Balmer 12/7/93
Supervisor Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS
(GASOLINE WITH BTEX)
ANAMETRIX, INC. - (408) 432-8192

Anametrix W.O.: 9311293
Matrix : WATER
Date Sampled : N/A

Project Number : 204-5508-4903
Date Released : 12/06/93

COMPOUNDS	Reporting Limit (ug/L)	Sample I.D.# BN2401E2 BLANK	Sample I.D.# BN3001E2 BLANK
Benzene	0.5	ND	ND
Toluene	0.5	ND	ND
Ethylbenzene	0.5	ND	ND
Total Xylenes	0.5	ND	ND
TPH as Gasoline	50	ND	ND
% Surrogate Recovery		110%	106%
Instrument I.D.		HP21	HP21
Date Analyzed		11/24/93	11/30/93
RLMF		1	1

ND - Not detected at or above the practical quantitation limit for the method.
TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using modified EPA Method 8015 following sample purge and trap by EPA Method 5030.
BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020 following sample purge and trap by EPA Method 5030.
RLMF - Reporting Limit Multiplication Factor (Dilution).

Anametrix control limits for surrogate p-Bromofluorobenzene recovery are 61-139%.

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

P Patel 12/07/93
Analyst Date

Cheryl Burleson 12/7/93
Supervisor Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS AS DIESEL
ANAMETRIX, INC. (408) 432-8192

Anametrix W.O.: 9311293
Matrix : WATER
Date Sampled : 11/18/93
Date Extracted: 11/24/93

Project Number : 204-5508-4903
Date Released : 12/06/93
Instrument I.D.: HP23

Anametrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (ug/L)	Amount Found (ug/L)	Surrogate %Rec
9311293-12	OMW-9	11/27/93	50	2400	54%
9311293-13	OMW-11	12/01/93	50	ND	50%
9311293-14	OMW-13	12/02/93	100	3800	50%
BN2411F1	METHOD BLANK	11/27/93	ND	ND	41%

Note : Reporting limit is obtained by multiplying the dilution factor times 50 ug/L.
The surrogate recovery limits for C25 are 30-130%.

ND - Not detected at or above the practical quantitation limit for the method.
TPHd - Total Petroleum Hydrocarbons as diesel is determined by GCFID following sample extraction by EPA Method 3510.

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

Analyst 12/9/93 Date

Supervisor 12/5/93 Date

TOTAL VOLATILE HYDROCARBON MATRIX SPIKE REPORT
EPA METHOD 5030 WITH GC/FID
ANAMETRIX, INC. (408) 432-8192

Sample I.D.	: 204-5508-4903 MW-5	Anametrix I.D.	: 11293-05
Matrix	: WATER	Analyst	: ARP
Date Sampled	: 11/17/93	Supervisor	: CA
Date Analyzed	: 11/25/93	Date Released	: 12/06/93
		Instrument ID	: HP21

COMPOUND	SPIKE AMT (ug/L)	SAMPLE AMT (ug/L)	REC MS (ug/L)	% REC MS	REC MD (ug/L)	% REC MD	RPD	% REC LIMITS *
GASOLINE	500	0	460	92%	450	90%	-2%	48-149
P-BFB				108%		92%		61-139

* Quality control limits established by Anametrix, Inc.

TOTAL VOLATILE HYDROCARBON MATRIX SPIKE REPORT
EPA METHOD 5030 WITH GC/PID
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 204-5508-4903 EW-1
Matrix : WATER
Date Sampled : 11/17/93
Date Analyzed : 12/25/93

Anametrix I.D. : 11293-01
Analyst : BAP
Supervisor : CS
Date Released : 12/06/93
Instrument I.D.: HP21

COMPOUND	SPIKE AMT (ug/L)	SAMPLE CONC (ug/L)	REC MS (ug/L)	%REC MS	REC MD (ug/L)	%REC MD	RPD	%REC LIMITS *
BENZENE	20.0	17.0	39.6	113%	37.4	102%	-10%	45-139
TOLUENE	20.0	0.0	22.9	115%	23.2	116%	1%	51-138
ETHYLBENZENE	20.0	0.0	26.2	131%	26.4	132%	1%	48-146
TOTAL XYLENES	20.0	0.0	24.7	123%	24.6	123%	-0%	50-139
p-BFB				110%		95%		61-139

* Quality control limits established by Anametrix, Inc.

TOTAL VOLATILE HYDROCARBON LABORATORY CONTROL SAMPLE REPORT
EPA METHOD 5030 WITH GC/FID
ANAMETRIX, INC. (408) 432-8192

Sample I.D.	: LAB CONTROL SAMPLE	Anametrix I.D.	: MN2402E1
Matrix	: WATER	Analyst	: [illegible]
Date Sampled	: N/A	Supervisor	: [illegible]
Date Analyzed	: 11/25/93	Date Released	: 12/07/93
		Instrument I.D.	: HP21

COMPOUND	SPIKE AMT. (ug/L)	REC LCS (ug/L)	%REC LCS	% REC LIMITS *
GASOLINE	500	460	92%	67-127
p-BFB			104%	61-139

* Quality control limits established by Anametrix, Inc.

TOTAL VOLATILE HYDROCARBON LABORATORY CONTROL SAMPLE REPORT
EPA METHOD 5030 WITH GC/PID
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : LAB CONTROL SAMPLE
Matrix : WATER
Date Sampled : N/A
Date Analyzed : 11/30/93

Anametrix I.D. : MN3002E3
Analyst : ADF
Supervisor : GS
Date Released : 12/06/93
Instrument I.D.: HP21

COMPOUND	SPIKE AMT. (ug/L)	LCS (ug/L)	REC LCS	%REC LIMITS *
Benzene	20.0	19.2	96%	52-133
Toluene	20.0	20.7	103%	57-136
Ethylbenzene	20.0	22.8	114%	56-139
Total Xylenes	20.0	21.8	109%	56-141
P-BFB			100%	61-139

* Quality control limits established by Anametrix, Inc.

TOTAL EXTRACTABLE HYDROCARBON LABORATORY CONTROL SAMPLE REPORT
EPA METHOD 3510 WITH GC/FID
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : LAB CONTROL SAMPLE
Matrix : WATER
Date Sampled : N/A
Date Extracted: 11/24/93
Date Analyzed : 11/27/93

Anametrix I.D. : BN2411F1
Analyst : AR
Supervisor : GS
Date Released : 12/06/93
Instrument I.D.: HP23

COMPOUND	SPIKE AMT (ug/L)	LCS REC (ug/L)	% REC LCS	LCSD REC (ug/L)	% REC LCSD	RPD	% REC LIMITS
DIESEL	1250	740	59%	670	54%	-10%	47-130
SURROGATE			41%		39%		30-130

* Quality control limits established by Anametrix, Inc.