

# BP Amoco



Scott T. Hooton  
Team Leader

BP Amoco Oil Corporation  
295 SW 41<sup>st</sup> Street  
Bldg 13, Suite N  
Renton, WA 98055  
425/251-0689  
425/251-0736 FAX

July 13, 2000

2014

Alameda County Health Care Services Agency  
Attention Ms. Susan Hugo  
1131 Harbor Bay Parkway, Ste. 250  
Alameda, CA 94502-6577

RE: BP Oil Site No. 11132  
3201 35<sup>th</sup> Street (at I-580)  
Oakland, CA

Dear Ms. Hugo:

Enclosed please find the *Second Quarter 2000 Groundwater Monitoring* report prepared by Blaine Tech Services on behalf of BP.

The report shows that aromatic petroleum constituents were detected in groundwater samples collected from five of the wells sampled this quarter (21 April 2000). The highest benzene concentration (3,300 ug/l) was reported in a sample obtained from well MW-2, located southwest of the underground storage tanks.

Plans for the coming quarter include product removal and groundwater monitoring.

Please give me a call if you have any questions, comments or concerns regarding this matter. I can be reached at (425) 251-0689.

Sincerely,

A handwritten signature in black ink, appearing to read 'Scott Hooton', is written over the word 'Sincerely,'.  

Scott Hooton

attachment

cc: Ade Fagorala- CRWQCB-SFBR  
D. Camille - Tosco (w/attachment)

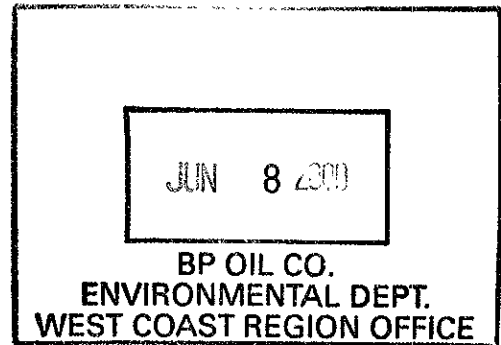
**BLAINE**  
TECH SERVICES INC.



1680 ROGERS AVENUE  
SAN JOSE, CA 95112-1105  
(408) 573-7771 FAX  
(408) 573-0555 PHONE  
CONTRACTOR'S LICENSE #746684  
www.blainetech.com

June 1, 2000

Scott Hooton  
BP Oil Company  
295 SW 41st Street, Bldg. 13, Suite N  
Renton, WA 98055-4931



### 2nd Quarter 2000 Monitoring at 11132

Second Quarter 2000 Groundwater Monitoring  
BP Service Station Number 11132  
3201 35<sup>th</sup> Avenue  
Oakland, CA

Monitoring Performed on April 21, 2000

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### Groundwater Sampling Report 000421-N-2

This report covers the routine monitoring of groundwater wells at this BP facility. Blaine Tech Services, Inc.'s work at the site includes inspection, gauging, evacuation, purgewater containment, sample collection and sample handling in accordance with standard procedures that conform to Regional Water Quality Control Board requirements.

Routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, the appropriate calculated purge volume, elapsed evacuation time, total volume of water removed, and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater is, likewise, collected and transported to Seaport Petroleum Corporation for disposal.


Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL DATA AND ANALYTICAL RESULTS**. The full analytical report for the most recent samples is located in the **Analytical Appendix**. The **Professional Engineering Appendix** contains a **Groundwater Elevation Map** and a **Dissolved Petroleum Hydrocarbon Concentration Map**.

At a minimum, Blaine Tech Services, Inc. field personnel are certified upon completion of a forty-hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type 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. concentrates on objective data collection and does not participate in the interpretation of analytical results, the definition of geological or hydrological conditions, the formulation of recommendations, or the marketing of remedial systems.

Please call if you have any questions.

Yours truly,

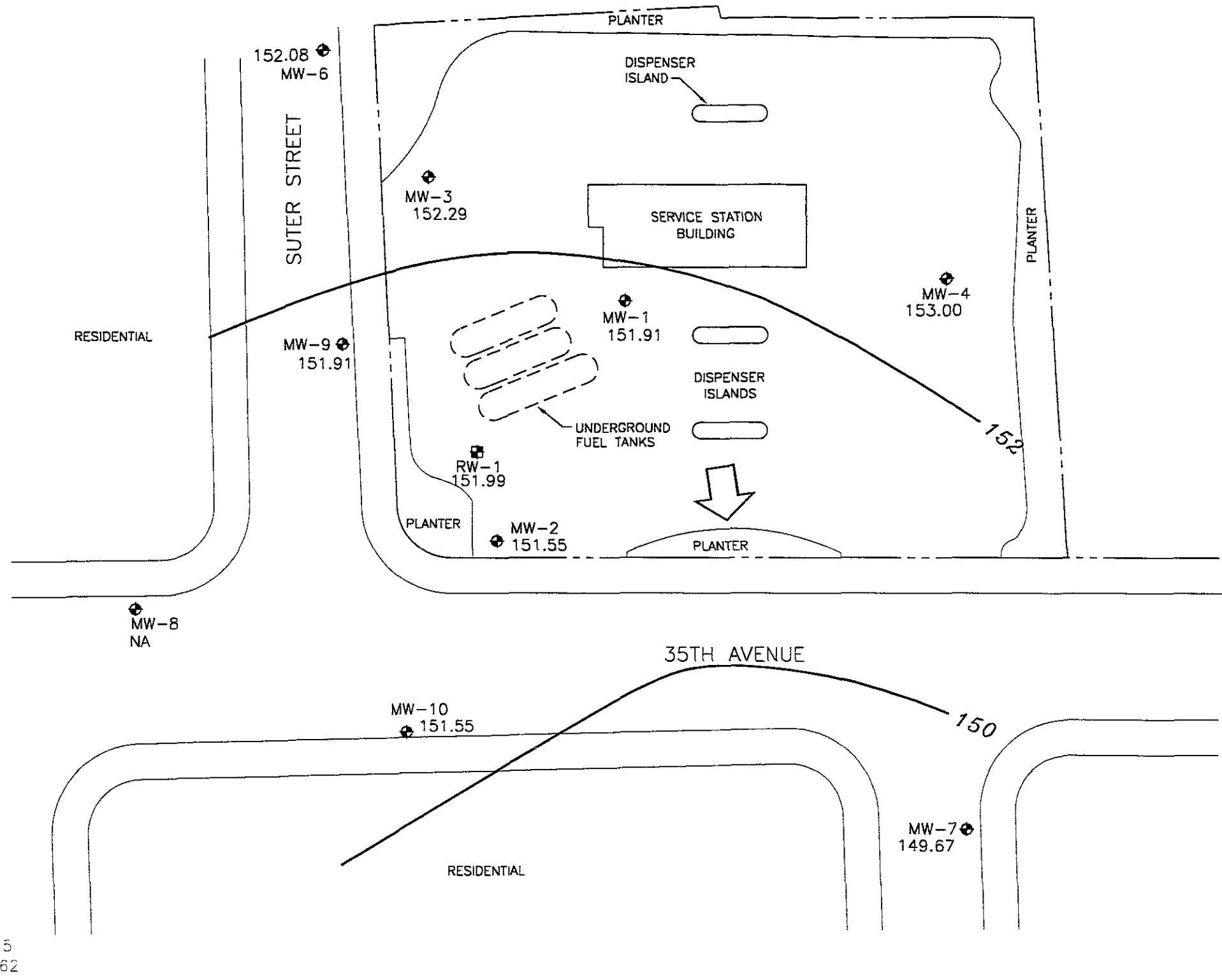
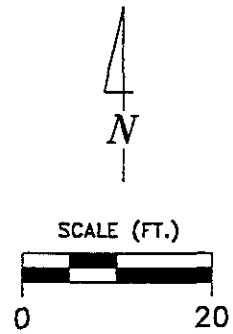
A handwritten signature in black ink, appearing to read 'Francis Thie', written in a cursive style.

Francis Thie  
Vice President

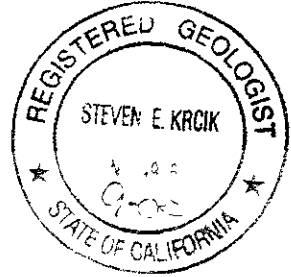
FPT/cm

attachments: Professional Engineering Appendix  
Cumulative Table of Well Data and Analytical Results  
Analytical Appendix  
Field Data Sheets


# **Professional Engineering Appendix**

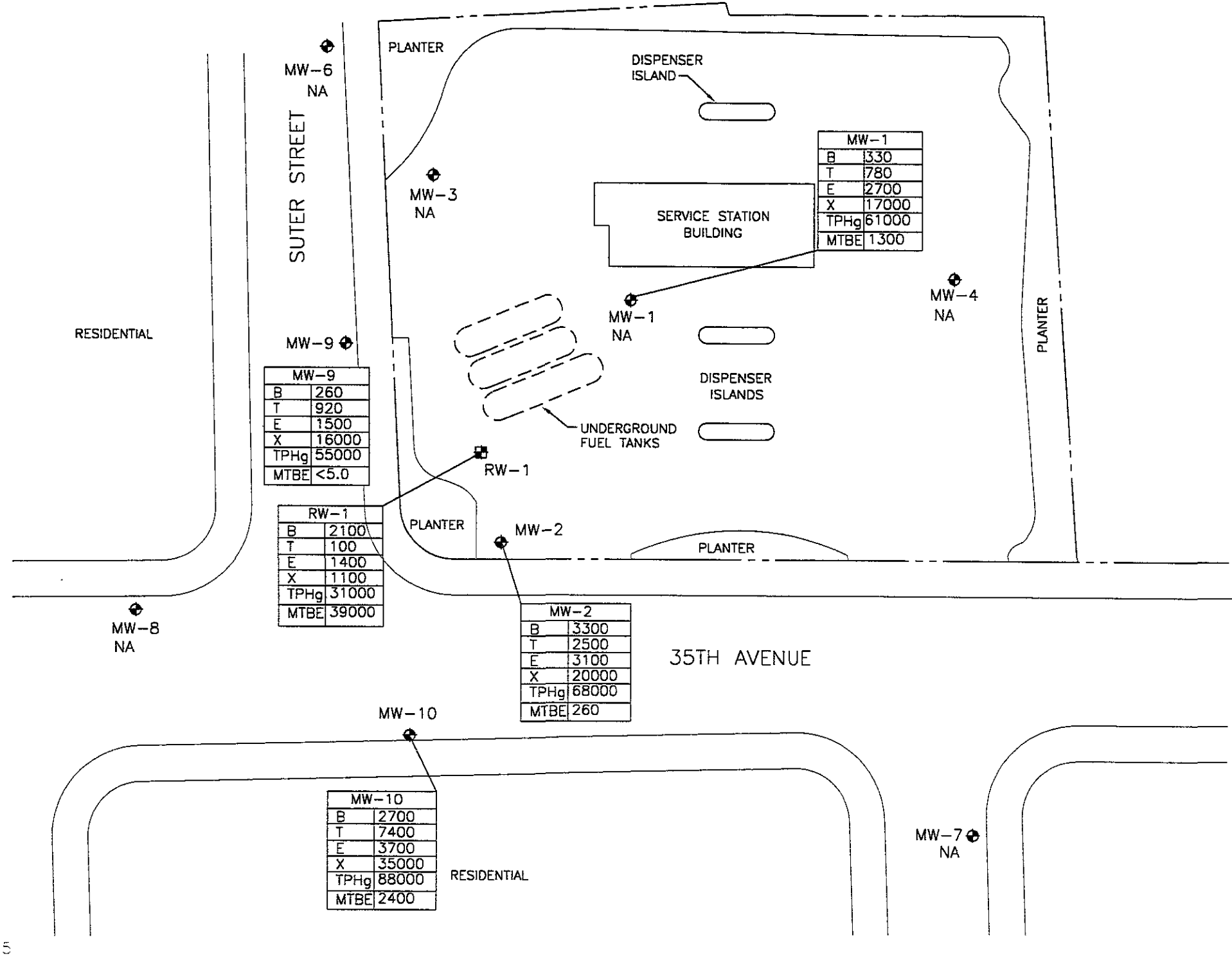
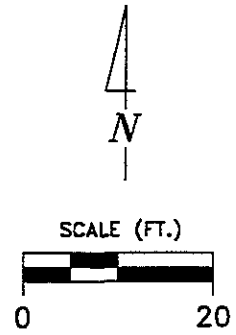


- EXPLANATION**
- ◆ GROUNDWATER MONITORING WELL
  - GROUNDWATER RECOVERY WELL
  - 151.55 GROUNDWATER ELEVATION (FT, MSL)
  - 152 — GROUNDWATER ELEVATION CONTOUR (FT, MSL)
  - ↓ APPROXIMATE GROUNDWATER FLOW DIRECTION; APPROXIMATE GRADIENT = 0.02
  - NA DATA NOT AVAILABLE



Ref: 11132br.dwg  
 Basemap from Aisto Engineering Group

PREPARED BY  engineering contracting firm	GROUNDWATER ELEVATION CONTOUR MAP, APRIL 21 2000	FIGURE: 1
	BP Oil Service Station No 11132 3201 35th Avenue Oakland, California	PROJECT: DAC04



- EXPLANATION**
- ⊕ GROUNDWATER MONITORING WELL
  - ⊞ GROUNDWATER RECOVERY WELL
  - TPHg TOTAL PETROLEUM HYDROCARBON CALCULATED AS GASOLINE IN PARTS PER BILLION (ppb)
  - B BENZENE, ppb
  - T TOLUENE, ppb
  - E ETHYLBENZENE, ppb
  - X XYLENE, ppb
  - MTBE METHYL-TERT-BUTYL-ETHER, ppb
  - NA DATA NOT AVAILABLE
  - < NOT DETECTED AT OR ABOVE VALUE SHOWN

# **Table of Well Data and Analytical Results**

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-1	07/09/90	169.75	---	0.22	---	---	---	---	---	---	---	---	---
MW-1	12/21/90	169.75	---	0.58	---	---	---	---	---	---	---	---	---
MW-1	03/07/91	169.75	20.59	---	---	---	---	---	---	---	---	---	---
MW-1	06/27/91	169.75	---	0.18	---	---	---	---	---	---	---	---	---
MW-1	09/27/91	169.75	---	0.27	---	---	---	---	---	---	---	---	---
MW-1	12/18/91	169.75	---	0.28	---	---	---	---	---	---	---	---	---
MW-1	04/01/91	169.75	16.51	0.15	153.35	---	---	---	---	---	---	---	---
MW-1	07/03/92	169.75	22.30	0.27	147.65	---	---	---	---	---	---	---	---
MW-1	10/05/92	169.75	23.98	0.24	145.95	---	---	---	---	---	---	---	---
MW-1	01/13/93	169.75	17.03	0.24	152.90	---	---	---	---	---	---	---	---
MW-1	04/23/93	169.75	18.10	0.42	151.97	---	---	---	---	---	---	---	---
MW-1	07/12/93	169.75	22.02	0.49	148.10	---	---	---	---	---	---	---	---
MW-1	10/21/93	169.75	25.12	1.09	145.45	---	---	---	---	---	---	---	---
MW-1	01/21/94	169.75	23.02	0.76	147.30	---	---	---	---	---	---	---	---
MW-1	04/20/94	169.75	24.54	1.80	146.56	---	---	---	---	---	---	---	---
MW-1	08/01/94	169.75	24.11	0.35	145.90	---	---	---	---	---	---	---	---
MW-1	12/23/94	169.75	18.19	0.29	151.78	---	---	---	---	---	---	---	---
MW-1	01/26/95	169.75	16.25	1.10	154.33	---	---	---	---	---	---	---	---
MW-1	06/08/95	169.75	22.92	1.20	147.73	---	---	---	---	---	---	---	---
MW-1	08/22/95	169.75	24.45	0.85	145.94	---	---	---	---	---	---	---	---
MW-1	10/27/95	169.75	25.41	0.69	144.86	---	---	---	---	---	---	---	---
MW-1	01/25/96	169.75	18.20	1.40	152.60	---	---	---	---	---	---	---	---
MW-1	04/19/96	169.75	19.06	1.22	151.61	---	---	---	---	---	---	---	---
MW-1	07/23/96	169.75	22.98	0.89	147.44	---	---	---	---	---	---	---	---
MW-1	11/11/96	169.75	23.99	0.98	146.50	---	---	---	---	---	---	---	---
MW-1	01/21/97	169.75	16.80	0.90	153.63	---	---	---	---	---	---	---	---
MW-1	04/29/97	169.75	21.90	0.85	148.49	---	---	---	---	---	---	---	---
MW-1	04/30/97	169.75	---	---	---	100000	3600	8000	4000	21300	7700	5.2	SPL
QC-1 (c)	04/30/97	---	---	---	---	92000	3500	8100	4400	23800	6900	---	SPL
MW-1	08/21/97	169.75	23.40	0.87	147.00	140000	3000	8500	3900	22100	5700	5.3	SPL
QC-1 (c)	08/21/97	---	---	---	---	120000	3200	8100	3800	19600	5200	---	SPL
MW-1	11/05/97	169.75	23.70	0.54	146.46	68000	6200	4400	3300	14300	8000	4.7	SPL
QC-1 (c)	11/05/97	---	---	---	---	88000	7300	4800	3600	16900	8200	---	SPL
MW-1	02/03/98	169.75	13.63	0.32	156.36	---	---	---	---	---	---	---	---
MW-1	02/04/98	---	---	---	---	190000	2200	10000	5600	32000	ND<10000	5.3	SPL
QC-1 (c)	02/04/98	---	---	---	---	160000	2300	8400	5000	29400	ND<10000	---	SPL



TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-1	05/28/98	169.75	18.03	0.17	151.85	87000	980	3900	3600	19000	2900	3.8	SPL
MW-1	12/30/98	169.75	19.50	0.08	150.31	70000	530	3200	2900	16000	3600	—	SPL
MW-1	02/02/99	169.75	18.93	0.03	150.84	79000	480	3100	3500	21000	3500	—	SPL
MW-1	05/10/99	169.75	18.28	0.03	151.49	110000	160	1900	3700	24000	3000	—	SPL
MW-1	08/24/99	169.75	20.13	0.06	149.67	110000	850	1300	1900	19000	ND<50	---	SPL
MW-1	11/03/99	169.75	22.27	0.36	147.77	65000	6300	1100	3300	9500	8900	—	PACE
MW-1 (h)	03/01/00	169.75	14.79	0.23	155.14	—	—	—	—	—	—	—	---
MW-1	04/21/00	169.75	18.10	0.33	151.91	61000	330	780	2700	17000	1300	—	PACE

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-2	07/09/90	168.14	—	0.10	---	—	---	—	—	---	---	---	---
MW-2	12/21/90	168.14	—	0.48	---	—	---	—	—	---	---	---	---
MW-2	03/07/91	168.14	19.18	—	---	—	---	—	—	---	---	---	---
MW-2	06/27/91	168.14	---	0.19	---	—	---	—	—	---	---	---	---
MW-2	09/27/91	168.14	---	0.15	---	—	---	—	—	---	---	---	---
MW-2	12/18/91	168.14	---	0.36	---	—	---	—	—	---	---	---	---
MW-2	04/01/91	168.14	15.21	0.10	153.01	—	---	—	—	---	---	---	---
MW-2	07/03/92	168.14	20.93	0.03	147.23	—	---	—	—	---	---	---	---
MW-2	10/05/92	168.14	22.74	0.21	145.56	—	---	—	—	---	---	---	---
MW-2	01/13/93	168.14	15.55	0.02	152.61	—	---	—	—	---	---	---	---
MW-2	04/23/93	168.14	16.54	0.21	151.76	—	---	—	—	---	---	---	---
MW-2	07/12/93	168.14	20.46	0.06	147.73	---	---	---	---	---	---	---	---
MW-2	10/21/93	168.14	24.91	0.31	143.46	---	---	---	---	---	---	---	---
MW-2	01/21/94	168.14	21.20	---	146.94	---	---	---	---	---	---	---	---
MW-2	04/20/94	168.14	22.44	---	145.70	1800	140	370	54	290	1.7	1.7	PACE
MW-2	08/01/94	168.14	22.24	0.04	145.93	---	---	---	---	---	---	---	---
MW-2	12/23/94	168.14	16.25	0.03	151.91	---	---	---	---	---	---	---	---
MW-2	01/26/95	168.14	14.55	0.39	153.88	---	---	---	---	---	---	---	---
MW-2	06/08/95	168.14	21.18	0.43	147.28	---	---	---	---	---	---	---	---
MW-2	08/22/95	168.14	22.76	0.36	145.65	---	---	---	---	---	---	---	---
MW-2	10/27/95	168.14	23.61	0.30	144.76	---	---	---	---	---	---	---	---
MW-2	01/25/96	168.14	15.95	0.15	152.30	---	---	---	---	---	---	---	---
MW-2	04/19/96	168.14	17.33	0.07	150.86	---	---	---	---	---	---	---	---
MW-2	07/23/96	168.14	21.25	0.05	146.93	---	---	---	---	---	---	---	---
MW-2	11/11/96	168.14	22.27	0.01	145.88	---	---	---	---	---	---	---	---
MW-2	01/21/97	168.14	15.19	0.01	152.96	---	---	---	---	---	---	---	---
MW-2	04/29/97	168.14	20.22	0.01	147.93	---	---	---	---	---	---	---	---
MW-2	04/30/97	168.14	---	---	---	130000	4600	15000	6000	37000	ND<5000	5.0	SPL
MW-2	08/21/97	168.14	21.74	0.01	146.41	110000	6000	16000	4700	28000	ND<500	4.6	SPL
MW-2	11/05/97	168.14	21.61	0.01	146.54	120000	7800	18000	4900	28100	ND<2500	4.6	SPL
MW-2	02/03/98	168.14	11.51	---	156.63	75000	590	1500	1800	12800	ND<2500	4.5	SPL
MW-2	05/28/98	168.14	16.51	---	151.63	79000	3900	3100	3100	18000	900	4.3	SPL
MW-2	12/30/98	168.14	17.70	---	150.44	95000	4700	3500	3700	21000	ND<250	---	SPL
MW-2	02/02/99	168.14	15.46	---	152.68	170000	3500	1500	5200	34000	ND<500	---	SPL
MW-2	05/10/99	168.14	16.52	---	151.62	84000	3200	3200	3700	20000	75	---	SPL
MW-2	08/24/99	168.14	20.73	---	147.41	130000	9100	9200	4700	27000	ND<250	---	SPL

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-2	11/03/99	168.14	20.93	—	147.21	120000	10000	21000	4700	30200	2200	—	PACE
MW-2	03/01/00	168.14	13.37	—	154.77	39000	1400	1500	1700	8100	44	—	PACE
MW-2	04/21/00	168.14	16.59	—	151.55	68000	3300	2500	3100	20000	260	—	PACE

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-3	05/28/98	167.17	14.65	—	152.52	330	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	4.2	SPL
MW-3	12/30/98	167.17	16.63	---	150.54	---	---	---	---	---	---	---	---
MW-3	02/02/99	167.17	13.12	---	154.05	<250	<5.0	<5.0	<5.0	<5.0	<5.0	---	SPL
MW-3	05/10/99	167.17	14.21	---	152.96	---	---	---	---	---	---	---	---
MW-3	08/24/99	167.17	14.36	---	152.81	---	---	---	---	---	---	---	---
MW-3	11/03/99	167.17	19.21	---	147.96	---	---	---	---	---	---	---	---
MW-3	03/01/00	167.17	15.17	---	152.00	ND<50	ND<0.5	0.57	ND<0.5	0.62	ND<0.5	---	PACE
MW-3	04/21/00	167.17	14.88	---	152.29	---	---	---	---	---	---	---	---

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-4	07/09/90	170.36	---	---	---	ND	ND	ND	ND	ND	---	---	---
MW-4	12/21/90	170.36	---	---	---	ND	ND	ND	ND	0.8	---	---	---
MW-4	03/07/91	170.36	20.72	---	149.64	ND	2.2	3.8	1.5	2.8	---	---	---
MW-4	06/27/91	170.36	---	---	---	ND	6.3	1.8	0.4	1.0	---	---	---
MW-4	09/27/91	170.36	---	---	---	ND	ND	ND	ND	ND	---	---	---
MW-4	12/18/91	170.36	---	---	---	ND	ND	ND	ND	ND	---	---	---
MW-4	04/01/91	170.36	17.49	---	152.87	ND	ND	ND	ND	ND	---	---	---
MW-4	07/03/92	170.36	22.16	---	148.20	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	ANA
MW-4	10/05/92	170.36	23.38	---	146.98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	ANA
MW-4	01/13/93	170.36	17.58	---	152.78	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
MW-4	04/23/93	170.36	15.72	---	154.64	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
MW-4	07/12/93	170.36	21.74	---	148.62	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
MW-4	10/21/93	170.36	23.84	---	146.52	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
MW-4	01/21/94	170.36	22.42	---	147.94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
MW-4	04/20/94	170.36	22.66	---	147.70	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	2.2	PACE
MW-4	08/01/94	170.36	23.01	---	147.35	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	1.9	PACE
MW-4	12/23/94	170.36	17.03	---	153.33	---	---	---	---	---	---	---	---
MW-4	01/26/95	170.36	17.42	---	152.94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	---	7.5	ATI
MW-4	06/08/95	170.36	21.55	---	148.81	---	---	---	---	---	---	---	---
MW-4	08/22/95	170.36	23.47	---	146.89	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	(d) 6.4	ATI
MW-4	10/27/95	170.36	24.50	---	145.86	---	---	---	---	---	---	---	---
MW-4	01/25/96	170.36	18.74	---	151.62	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	58	---	CEI
MW-4	04/19/96	170.36	18.63	---	151.73	---	---	---	---	---	---	---	---
MW-4	07/23/96	170.36	22.56	---	147.80	---	---	---	---	---	---	---	---
MW-4	11/11/96	170.36	23.63	---	146.73	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	34	8.2	SPL
MW-4	01/21/97	170.36	16.59	---	153.77	---	---	---	---	---	---	---	---
MW-4	04/29/97	170.36	21.43	---	148.93	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	4.7	SPL
MW-4	08/21/97	170.36	22.91	---	147.45	---	---	---	---	---	---	---	---
MW-4	11/05/97	170.36	22.34	---	148.02	60	ND<0.5	ND<1.0	ND<1.0	ND<1.0	76	4.9	SPL
MW-4	02/03/98	170.36	12.26	---	158.10	---	---	---	---	---	---	---	SPL
MW-4	05/28/98	170.36	18.50	---	151.86	70	ND<0.5	ND<1.0	ND<1.0	ND<1.0	160	4.2	SPL
MW-4	12/30/98	170.36	19.69	---	150.67	---	---	---	---	---	---	---	---
MW-4	02/02/99	170.36	18.26	---	152.10	70	ND<1.0	ND<1.0	ND<1.0	ND<1.0	130	---	SPL
MW-4	05/10/99	170.36	17.86	---	152.50	---	---	---	---	---	---	---	---
MW-4	08/24/99	170.36	17.93	---	152.43	---	---	---	---	---	---	---	---
MW-4	11/03/99	170.36	22.78	---	147.58	---	---	---	---	---	---	---	---

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-4	03/01/00	170.36	18.04	—	152.32	ND<50	ND<0.5	0.67	ND<0.5	0.7	110	—	PACE
MW-4	04/21/00	170.36	17.36	—	153.00	—	—	—	—	—	—	—	—

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-5	07/09/90	165.14	---	---	---	280	200	210	46	290	---	---	---
MW-5	12/21/90	165.14	---	---	---	0.69	300	34	8.4	39	---	---	---
MW-5	03/07/91	165.14	16.60	---	148.54	ND	17	0.9	0.7	1.6	---	---	---
MW-5	06/27/91	165.14	---	---	---	330	120	10	12	8	---	---	---
MW-5	09/27/91	165.14	---	---	---	0.73	230	16	20	22	---	---	---
MW-5	12/18/91	165.14	---	---	---	ND	ND	ND	ND	ND	---	---	---
MW-5	04/01/91	165.14	11.99	---	153.15	800	250	54	11	60	---	---	---
MW-5	07/03/92	165.14	18.65	---	146.49	150	36	ND<0.5	ND<0.5	1.1	---	---	ANA
MW-5	10/05/92	165.14	20.32	---	144.82	270	79	4	1.7	2.9	---	---	ANA
MW-5	01/13/93	165.14	13.03	---	152.11	180	59	6.0	1.8	7.6	---	---	PACE
MW-5	04/23/93	165.14	13.51	---	151.63	8700	440	96	35	136	---	---	PACE
MW-5	07/12/93	165.14	18.06	---	147.08	250	57	2.9	2.1	6.0	---	---	PACE
MW-5	10/21/93	165.14	20.41	---	144.73	210	82	1.5	ND<0.5	1.4	---	---	PACE
MW-5	01/21/94	165.14	18.86	---	146.28	110	36	1.2	ND<0.5	0.7	---	---	PACE
MW-5	04/20/94	165.14	17.30	---	147.84	690	230	4.5	1.6	11	---	1.3	PACE
MW-5	08/01/94	165.14	17.53	---	147.61	170	44	1.6	0.9	2.7	---	0.9	PACE
MW-5	12/23/94	165.14	11.63	---	153.51	630	180	1.9	0.66	1.9	---	1.4	PACE
MW-5	01/26/95	165.14	11.25	---	153.89	160	68	ND<0.5	ND<0.5	22	---	5.9	ATI
MW-5	06/08/95	165.14	16.80	---	148.34	2000	630	58	61	180	---	6.5	ATI
QC-1 (c)	06/08/95	---	---	---	---	1700	560	51	55	170	---	---	ATI
MW-5	08/22/95	165.14	19.02	---	146.12	3700	1100	18	27	59	ND<130	(d) 7.3	ATI
MW-5	10/27/95	165.14	20.94	---	144.20	---	---	---	---	---	---	---	---
MW-5	10/30/95	165.14	---	---	---	6500	2200	55	180	270	ND<250	7.5	ATI
MW-5	01/25/96	165.14	13.30	---	151.84	590	37	0.70	ND<0.50	ND<1.0	ND<5.0	---	CEI
QC-1 (c)	01/25/96	---	---	---	---	540	37	0.66	ND<0.50	ND<1.0	ND<5.0	---	CEI
MW-5	04/19/96	165.14	13.63	---	151.51	1500	470	38	49	210	ND<50	8.1	SPL
MW-5	07/23/96	165.14	17.61	---	147.53	140	4.6	ND<0.5	ND<0.5	ND<0.5	ND<10	8.0	SPL
MW-5	11/11/96	165.14	18.70	---	146.44	140	40	ND<1.0	ND<1.0	ND<1.0	ND<10	7.9	SPL
MW-5	01/21/97	165.14	11.63	---	153.51	730	300	ND<5.0	7.8	26	ND<50	5.0	SPL
MW-5	04/29/97	165.14	16.74	---	148.40	340	530	ND<5.0	ND<5.0	ND<5.0	ND<50	4.8	SPL
MW-5	08/21/97	165.14	18.26	---	146.88	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	4.9	SPL
MW-5	11/05/97	165.14	18.84	---	146.30	120	13	ND<1.0	ND<1.0	ND<1.0	ND<10	4.4	SPL
MW-5	02/03/98	165.14	9.49	---	155.65	ND<50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<10	4.3	SPL
MW-5	05/28/98	165.14	13.57	---	151.57	4900	1500	34	180	311	ND<10	4.1	SPL
MW-5	12/30/98	165.14	14.65	---	150.49	---	---	---	---	---	---	---	---
MW-5	02/02/99	165.14	12.56	---	152.58	100	ND<1.0	ND<1.0	ND<1.0	ND<1.0	9.1	---	SPL

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-5	05/10/99	165.14	13.36	—	151.78	—	—	—	—	—	—	—	—
MW-5	08/24/99	165.14	13.50	—	151.64	—	—	—	—	—	—	—	—
MW-5	11/03/99	165.14	18.48	—	146.66	—	—	—	—	—	—	—	—
MW-5	03/01/00	165.14	9.59	—	155.55	ND<50	ND<0.5	0.58	ND<0.5	0.54	2.9	—	PACE
MW-5	04/21/00	165.14	13.52	—	151.62	—	—	—	—	—	—	—	—



TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-6	07/09/90	165.40	---	---	---	ND	ND	ND	ND	ND	---	---	---
MW-6	12/21/90	165.40	---	---	---	0.17	2.6	7.0	4.9	26	---	---	---
MW-6 (e)	03/07/91	165.40	---	---	---	---	---	---	---	---	---	---	---
MW-6 (e)	06/27/91	165.40	---	---	---	---	---	---	---	---	---	---	---
MW-6 (e)	09/27/91	165.40	---	---	---	---	---	---	---	---	---	---	---
MW-6	12/18/91	165.40	---	---	---	ND	1.3	22	ND	2.7	---	---	---
MW-6	04/01/91	165.40	11.79	---	153.61	ND	ND	ND	ND	ND	---	---	---
MW-6	07/03/92	165.40	17.77	---	147.63	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	ANA
MW-6	10/05/92	165.40	19.46	---	145.94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	ANA
MW-6	01/13/93	165.40	11.34	---	154.06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
MW-6	04/23/93	165.40	12.92	---	152.48	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
MW-6	07/12/93	165.40	17.36	---	148.04	ND<50	ND<0.5	ND<0.5	ND<0.5	0.7	---	---	PACE
MW-6	10/21/93	165.40	19.98	---	145.42	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
MW-6	01/21/94	165.40	18.10	---	147.30	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
MW-6	04/20/94	165.40	18.68	---	146.72	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	2.0	PACE
MW-6	08/01/94	165.40	18.90	---	146.50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	1.5	PACE
MW-6	12/23/94	165.40	12.94	---	152.46	---	---	---	---	---	---	---	---
MW-6	01/26/95	165.40	10.46	---	154.94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	---	7.3	ATI
MW-6	06/08/95	165.40	16.84	---	148.56	---	---	---	---	---	---	---	---
MW-6	08/22/95	165.40	19.48	---	145.92	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	(d) 6.7	ATI
MW-6	10/27/95	165.40	20.39	---	145.01	---	---	---	---	---	---	---	---
MW-6	01/25/96	165.40	12.24	---	153.16	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	9.9	---	CEI
MW-6	04/19/96	165.40	13.90	---	151.50	---	---	---	---	---	---	---	---
MW-6	07/23/96	165.40	17.83	---	147.57	---	---	---	---	---	---	---	---
MW-6	11/11/96	165.40	18.90	---	146.50	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	7.7	SPL
MW-6	01/21/97	165.40	11.97	---	153.43	---	---	---	---	---	---	---	---
MW-6	04/29/97	165.40	17.04	---	148.36	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	4.5	SPL
MW-6	08/21/97	165.40	18.58	---	146.82	---	---	---	---	---	---	---	---
MW-6	11/05/97	165.40	19.17	---	146.23	70	ND<0.5	ND<1.0	ND<1.0	ND<1.0	85	4.3	SPL
MW-6	02/03/98	165.40	9.87	---	155.53	---	---	---	---	---	---	---	---
MW-6	05/28/98	165.40	13.38	---	152.02	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	3.7	SPL
MW-6	12/30/98	165.40	14.45	---	150.95	---	---	---	---	---	---	---	---
MW-6	02/02/99	165.40	18.29	---	147.11	---	---	---	---	---	---	---	---
MW-6	05/10/99	165.40	17.49	---	147.91	---	---	---	---	---	---	---	---
MW-6	08/24/99	165.40	17.61	---	147.79	---	---	---	---	---	---	---	---
MW-6	11/03/99	165.40	16.26	---	149.14	---	---	---	---	---	---	---	---

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-6	03/01/00	165.40	17.43	--	147.97	--	--	--	--	--	--	--	--
MW-6	04/21/00	165.40	13.32	--	152.08	--	--	--	--	--	--	--	--

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-7	07/09/90	167.61	---	---	---	ND	ND	ND	ND	ND	---	---	---
MW-7	12/21/90	167.61	---	---	---	ND	ND	ND	ND	ND	---	---	---
MW-7	03/07/91	167.61	19.04	---	148.57	ND	ND	0.4	0.3	2.4	---	---	---
MW-7	06/27/91	167.61	---	---	---	70	17	4	0.8	2.2	---	---	---
MW-7	09/27/91	167.61	---	---	---	ND	0.4	ND	ND	0.4	---	---	---
MW-7	12/18/91	167.61	---	---	---	ND	0.7	2.9	0.8	3.3	---	---	---
MW-7	04/01/91	167.61	15.18	---	152.43	ND	ND	ND	ND	ND	---	---	---
MW-7	07/03/92	167.61	20.28	---	147.33	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	ANA
MW-7	10/05/92	167.61	21.56	---	146.05	ND<50	ND<0.5	ND<0.5	ND<0.5	1.5	---	---	ANA
MW-7	01/13/93	167.61	15.41	---	152.20	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
MW-7	04/23/93	167.61	15.84	---	151.77	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
MW-7	07/12/93	167.61	19.84	---	147.77	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
MW-7	10/21/93	167.61	21.61	---	146.00	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
MW-7	01/21/94	167.61	20.49	---	147.12	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
QC-1 (c)	01/21/94	---	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
MW-7	04/20/94	167.61	20.54	---	147.07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	1.5	PACE
MW-7	08/01/94	167.61	20.99	---	146.62	ND<50	0.7	ND<0.5	ND<0.5	ND<0.5	---	1.9	PACE
MW-7	12/23/94	167.61	15.00	---	152.61	---	---	---	---	---	---	---	---
MW-7	01/26/95	167.61	14.69	---	152.92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	---	7.0	ATI
MW-7	06/08/95	167.61	19.87	---	147.74	---	---	---	---	---	---	---	---
MW-7	08/22/95	167.61	21.49	---	146.12	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0 (d)	6.4	ATI
MW-7	10/27/95	167.61	22.53	---	145.08	---	---	---	---	---	---	---	---
MW-7	01/25/96	167.61	17.21	---	150.40	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	CEI
MW-7	04/19/96	167.61	17.09	---	150.52	---	---	---	---	---	---	---	---
MW-7	07/23/96	167.61	21.02	---	146.59	---	---	---	---	---	---	---	---
MW-7	11/11/96	167.61	22.03	---	145.58	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	7.8	SPL
MW-7	01/21/97	167.61	15.06	---	152.55	---	---	---	---	---	---	---	---
MW-7	04/29/97	167.61	20.11	---	147.50	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	4.4	SPL
MW-7	08/21/97	167.61	21.59	---	146.02	---	---	---	---	---	---	---	---
MW-7	11/05/97	167.61	20.05	---	147.56	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	4.4	SPL
MW-7	02/03/98	167.61	9.97	---	157.64	---	---	---	---	---	---	---	SPL
MW-7	05/28/98	167.61	13.52	---	154.09	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	4.3	SPL
MW-7	12/30/98	167.61	18.33	---	149.28	---	---	---	---	---	---	---	---
MW-7	02/02/99	167.61	12.33	---	149.28	---	---	---	---	---	---	---	---
MW-7	05/10/99	167.61	13.52	---	154.09	---	---	---	---	---	---	---	---
MW-7	08/24/99	167.61	14.01	---	153.60	---	---	---	---	---	---	---	---

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-7	11/03/99	167.61	19.91	---	147.70	---	---	---	---	---	---	---	---
MW-7	03/01/00	167.61	19.89	---	147.72	---	---	---	---	---	---	---	---
MW-7	04/21/00	167.61	17.94	---	149.67	---	---	---	---	---	---	---	---

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-8	03/07/91	165.74	16.72	---	149.02	2.7	780	450	64	310	---	---	---
MW-8	06/27/91	165.74	---	---	---	12000	3400	1100	240	750	---	---	---
MW-8	09/27/91	165.74	---	---	---	41	5700	5200	1100	4300	---	---	---
MW-8	12/18/91	165.74	---	---	---	3.2	990	150	120	250	---	---	---
MW-8	04/01/91	165.74	12.54	---	153.20	15000	3600	2600	410	1900	---	---	---
MW-8	07/03/92	165.74	18.78	---	146.96	72000	19000	32000	3000	15000	---	---	ANA
MW-8	10/05/92	165.74	20.48	0.01	145.27	---	---	---	---	---	---	---	---
MW-8	01/13/93	165.74	12.87	0.01	152.88	---	---	---	---	---	---	---	---
MW-8	04/23/93	165.74	13.90	SHEEN	151.84	---	---	---	---	---	---	---	---
MW-8	07/12/93	165.74	18.30	SHEEN	147.44	---	---	---	---	---	---	---	---
MW-8	10/21/93	165.74	21.91	0.95	144.54	---	---	---	---	---	---	---	---
MW-8	01/21/94	165.74	19.12	0.03	146.64	---	---	---	---	---	---	---	---
MW-8	04/20/94	165.74	19.28	0.03	146.48	26000	1700	4100	960	4000	---	1.1	PACE
MW-8	08/01/94	165.74	---	---	---	---	---	---	---	---	---	---	---
MW-8	12/23/94	165.74	13.81	0.03	151.95	---	---	---	---	---	---	---	---
MW-8	01/26/95	165.74	---	---	---	---	---	---	---	---	---	---	---
MW-8	06/08/95	165.74	17.82	0.29	148.14	---	---	---	---	---	---	---	---
MW-8	08/22/95	165.74	19.41	0.20	146.48	---	---	---	---	---	---	---	---
MW-8	10/27/95	165.74	20.47	0.14	145.38	---	---	---	---	---	---	---	---
MW-8	01/25/96	165.74	13.35	0.22	152.56	---	---	---	---	---	---	---	---
MW-8	04/19/96	165.74	14.40	0.20	151.49	---	---	---	---	---	---	---	---
MW-8	07/23/96	165.74	18.35	0.14	147.50	---	---	---	---	---	---	---	---
MW-8	11/11/96	165.74	19.41	0.02	146.35	---	---	---	---	---	---	---	---
MW-8	01/21/97	165.74	12.29	0.01	153.46	---	---	---	---	---	---	---	---
MW-8 (e)	04/29/97	165.74	---	---	---	---	---	---	---	---	---	---	---
MW-8	08/21/97	165.74	19.61	---	146.13	240000	1100	9300	4100	31100	ND<1000	5.2	SPL
MW-8	11/05/97	165.74	19.45	0.10	146.37	57000	790	2700	2300	15200	ND<1000	5.0	SPL
MW-8	02/03/98	165.74	9.33	0.03	156.43	---	---	---	---	---	---	---	---
MW-8	02/04/98	---	---	---	---	94000	570	1500	2100	15200	ND<2500	5.5	SPL
MW-8 (e)	05/28/98	165.74	---	---	---	---	---	---	---	---	---	---	---
MW-8	12/30/98	165.74	15.48	0.05	150.30	120000	460	2300	2200	15000	150	---	SPL
MW-8	02/02/99	165.74	18.29	--	147.45	82000	450	2200	3700	26000	ND<500	---	SPL
MW-8	05/10/99	165.74	15.62	--	150.12	28000	740	1800	1100	5800	ND<25	---	SPL
MW-8	08/24/99	165.74	18.41	--	147.33	75000	530	1400	3300	21000	150	---	SPL
MW-8	11/03/99	165.74	18.71	--	147.03	70000	600	1300	3600	20500	750	---	PACE
MW-8	03/01/00	165.74	19.37	--	146.37	27000	1600	1200	2600	6600	120	---	PACE

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITERING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-8 (e)	04/21/00	165.74	—	—	—	—	—	—	—	—	—	—	—

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-9	03/07/91	166.20	16.79	---	149.41	7.1	220	4	2.4	2400	---	---	---
MW-9	06/27/91	166.20	---	---	---	3600	520	400	85	310	---	---	---
MW-9	09/27/91	166.20	---	---	---	3.2	720	150	50	180	---	---	---
MW-9	12/18/91	166.20	---	---	---	ND	2.5	1.1	0.3	5.8	---	---	---
MW-9	04/01/91	166.20	12.89	---	153.31	12000	2000	2600	360	1600	---	---	---
MW-9	07/03/92	166.20	18.89	---	147.31	5700	17000	840	230	800	---	---	ANA
MW-9	10/05/92	166.20	20.52	---	145.68	1400	440	17	14	100	---	---	ANA
MW-9	01/13/93	166.20	12.92	---	153.28	11000	1200	1700	340	1400	---	---	PACE
QC-1 (c)	01/13/93	---	---	---	---	11000	1200	1600	330	1300	---	---	PACE
MW-9	04/23/93	166.20	14.08	---	152.12	24000	2800	4500	730	3400	---	---	PACE
MW-9	07/12/93	166.20	18.44	---	147.76	13000	1400	1100	360	1400	---	---	PACE
QC-1 (c)	07/12/93	---	---	---	---	10000	1200	900	310	1200	---	---	PACE
MW-9	10/21/93	166.20	21.81	0.89	145.06	---	---	---	---	---	---	---	---
MW-9	01/21/94	166.20	19.28	---	146.92	---	---	---	---	---	---	---	---
MW-9	04/20/94	166.20	19.72	---	146.48	43000	2800	6800	1300	7900	---	1.7	PACE
QC-1 (c)	04/20/94	---	---	---	---	45000	2700	6800	1200	8200	740	(d)	PACE
MW-9	08/01/94	166.20	20.18	0.05	146.06	---	---	---	---	---	---	---	---
MW-9	12/23/94	166.20	14.22	0.02	152.00	---	---	---	---	---	---	---	---
MW-9	01/26/95	166.20	11.85	0.13	154.45	---	---	---	---	---	---	---	---
MW-9	06/08/95	166.20	18.33	0.80	148.47	---	---	---	---	---	---	---	---
MW-9	08/22/95	166.20	19.95	0.01	146.26	---	---	---	---	---	---	---	---
MW-9	10/27/95	166.20	20.88	0.01	145.33	---	---	---	---	---	---	---	---
MW-9	01/25/96	166.20	13.84	0.07	152.41	---	---	---	---	---	---	---	---
MW-9 (e)	04/19/96	166.20	---	---	---	---	---	---	---	---	---	---	---
MW-9	07/23/96	166.20	18.84	0.03	147.38	---	---	---	---	---	---	---	---
MW-9	11/11/96	166.20	19.91	0.01	146.30	---	---	---	---	---	---	---	---
MW-9	01/21/97	166.20	12.93	0.01	153.28	---	---	---	---	---	---	---	---
MW-9	04/29/97	166.20	18.03	SHEEN	148.17	---	---	---	---	---	---	---	---
MW-9	04/30/97	166.20	---	---	---	78000	1900	3600	3100	20600	ND<5000	5.5	SPL
MW-9	08/21/97	166.20	19.56	0.01	146.65	110000	2100	3400	2300	18800	ND<500	5.1	SPL
MW-9	11/05/97	166.20	20.59	0.01	145.62	59000	1400	1700	2200	17000	ND<500	4.5	SPL
MW-9	02/03/98	166.20	10.56	---	155.64	55000	490	1200	1400	10200	ND<1000	4.9	SPL
MW-9	05/28/98	166.20	14.21	0.01	152.00	41000	250	1200	1500	11400	ND<250	3.8	SPL
QC-1 (c)	05/28/98	---	---	---	---	53000	290	830	1400	10500	ND<500	---	SPL
MW-9	12/30/98	166.20	15.61	---	150.59	83000	860	1300	2400	21000	180	---	SPL
MW-9	02/02/99	166.20	12.33	---	153.87	75000	530	960	1900	17000	ND<50	---	SPL

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-9	05/10/99	166.20	15.67	---	150.53	22000	600	1500	1100	4400	72	---	SPL
MW-9	08/24/99	166.20	19.10	---	147.10	85000	850	1300	1700	20000	ND<250	---	SPL
MW-9	11/03/99	166.20	19.58	---	146.62	72000	700	780	1900	19000	ND<5.0	---	PACE
MW-9	03/01/00	166.20	13.19	---	153.01	34000	78	490	1100	8200	63	---	PACE
MW-9	04/21/00	166.20	14.29	---	151.91	55000	260	920	1500	16000	ND<5.0	---	PACE



TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB	
MW-10	03/07/91	167.01	18.09	---	148.92	1.6	120	190	32	230	---	---	---	
MW-10	06/27/91	167.01	---	---	---	12000	7300	500	150	300	---	---	---	
MW-10	09/27/91	167.01	---	---	---	57	12000	7200	1400	4600	---	---	---	
MW-10	12/18/91	167.01	---	---	---	5.3	2500	120	36	79	---	---	---	
MW-10	04/01/91	167.01	13.92	---	153.09	ND	ND	ND	ND	ND	---	---	---	
MW-10	07/03/92	167.01	19.92	---	147.09	8600	5100	1300	180	690	---	---	ANA	
MW-10	10/05/92	167.01	21.92	0.19	145.23	---	---	---	---	---	---	---	---	
MW-10	01/13/93	167.01	14.43	0.03	152.60	---	---	---	---	---	---	---	---	
MW-10	04/23/93	167.01	15.26	0.06	151.80	---	---	---	---	---	---	---	---	
MW-10	07/12/93	167.01	19.78	0.45	147.57	---	---	---	---	---	---	---	---	
MW-10	10/21/93	167.01	22.90	0.69	144.63	---	---	---	---	---	---	---	---	
MW-10	01/21/94	167.01	20.25	0.06	146.81	---	---	---	---	---	---	---	---	
MW-10	04/20/94	167.01	20.74	---	146.27	100000	12000	24000	2400	14000	1600	(d)	1.0	PACE
MW-10	08/01/94	167.01	22.00	0.28	145.22	---	---	---	---	---	---	---	---	
MW-10	12/23/94	167.01	16.08	0.25	151.12	---	---	---	---	---	---	---	---	
MW-10	01/26/95	167.01	13.68	0.80	153.93	---	---	---	---	---	---	---	---	
MW-10	06/08/95	167.01	19.08	0.75	148.49	---	---	---	---	---	---	---	---	
MW-10	08/22/95	167.01	20.73	0.70	146.81	---	---	---	---	---	---	---	---	
MW-10	10/27/95	167.01	21.69	0.63	145.79	---	---	---	---	---	---	---	---	
MW-10	01/25/96	167.01	15.05	0.81	152.57	---	---	---	---	---	---	---	---	
MW-10	04/19/96	167.01	16.26	0.58	151.19	---	---	---	---	---	---	---	---	
MW-10	07/23/96	167.01	20.18	0.62	147.30	---	---	---	---	---	---	---	---	
MW-10	11/11/96	167.01	21.20	0.20	145.96	---	---	---	---	---	---	---	---	
MW-10	01/21/97	167.01	13.66	0.14	153.46	---	---	---	---	---	---	---	---	
MW-10	04/29/97	167.01	18.71	0.21	148.46	---	---	---	---	---	---	---	---	
MW-10	04/30/97	167.01	---	---	---	170000	9700	38000	4700	30500	ND<5000	5.6	SPL	
MW-10	08/21/97	167.01	20.19	0.14	146.93	170000	9500	35000	4300	27100	ND<5000	5.3	SPL	
MW-10	11/05/97	167.01	20.52	0.02	146.51	80000	3800	12000	2700	15700	ND<500	4.4	SPL	
MW-10	02/03/98	167.01	10.62	0.01	156.40	---	---	---	---	---	---	---	---	
MW-10	02/04/98	---	---	---	---	72000	500	1300	1700	12000	ND<1000	5.1	SPL	
MW-10	05/28/98	167.01	15.46	---	151.55	220000	3200	24000	5200	43000	ND<1000	4.8	SPL	
MW-10	12/30/98	167.01	16.65	---	150.36	110000	3500	14000	5800	50000	ND<50	---	SPL	
MW-10	02/02/99	167.01	14.58	---	152.43	74000	1000	2800	1000	26000	860	---	SPL	
MW-10	05/10/99	167.01	15.72	---	151.29	81000	2800	2800	3000	17000	220	---	SPL	
MW-10	08/24/99	167.01	19.85	---	147.16	54000	3500	3800	1500	9100	ND<250	---	SPL	
MW-10	11/03/99	167.01	20.00	---	147.01	30000	3000	3500	1200	5000	31	---	PACE	

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-10	03/01/00	167.01	14.62	—	152.39	62000	320	1200	1100	26000	4400	—	PACE
MW-10	04/21/00	167.01	15.46	—	151.55	88000	2700	7400	3700	35000	2400	—	PACE

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
RW-1	07/09/90	168.01	---	1.21	---	---	---	---	---	---	---	---	---
RW-1	12/21/90	168.01	---	0.01	---	---	---	---	---	---	---	---	---
RW-1	03/07/91	168.01	17.62	SHEEN	150.39	---	---	---	---	---	---	---	---
RW-1	06/27/91	168.01	---	0.04	---	---	---	---	---	---	---	---	---
RW-1	09/27/91	168.01	---	0.02	---	---	---	---	---	---	---	---	---
RW-1	12/18/91	168.01	---	0.02	---	---	---	---	---	---	---	---	---
RW-1	04/01/91	168.01	14.40	0.11	153.69	---	---	---	---	---	---	---	---
RW-1	07/03/92	168.01	20.66	SHEEN	147.35	---	---	---	---	---	---	---	---
RW-1	10/05/92	168.01	23.34	0.08	144.73	---	---	---	---	---	---	---	---
RW-1	01/13/93	168.01	16.59	0.05	151.46	---	---	---	---	---	---	---	---
RW-1	04/23/93	168.01	16.17	0.18	151.98	---	---	---	---	---	---	---	---
RW-1	07/12/93	168.01	20.18	0.06	147.88	---	---	---	---	---	---	---	---
RW-1	10/21/93	168.01	25.70	0.56	142.73	---	---	---	---	---	---	---	---
RW-1	01/21/94	168.01	21.24	0.40	147.07	---	---	---	---	---	---	---	---
RW-1	04/20/94	168.01	32.20	---	135.81	---	---	---	---	---	---	---	---
RW-1	08/01/94	168.01	21.70	---	146.31	29000	580	950	300	7800	1200	(d) 1.1	PACE
RW-1	12/23/94	168.01	16.02	---	151.99	1300	25	8.6	1.4	69	---	1.8	PACE
RW-1	01/26/95	168.01	13.78	---	154.23	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	ATI
QC-1 (c)	01/26/95	---	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	ATI
RW-1	06/08/95	168.01	20.05	---	147.96	1300	130	ND<1.0	ND<1.0	36	---	---	ATI
RW-1	08/22/95	168.01	21.74	---	146.27	3300	230	13	4.9	280	ND<25	(d) 6.6	ATI
QC-1 (c)	08/22/95	---	---	---	---	2800	210	9.3	4.3	250	ND<25	(d) ---	ATI
RW-1	10/27/95	168.01	32.00	---	136.01	---	---	---	---	---	---	---	---
RW-1	10/30/95	168.01	---	---	---	230	1.4	ND<1.0	ND<1.0	ND<2.0	650	6.9	ATI
QC-1 (c)	10/30/95	---	---	---	---	240	1.6	ND<1.0	ND<1.0	ND<2.0	630	---	ATI
RW-1	01/25/96	168.01	15.41	---	152.60	15000	3400	930	330	2500	5300	---	CEI
RW-1	04/19/96	168.01	16.83	---	151.18	35000	5500	3300	1700	9400	14000	7.6	SPL
QC-1 (c)	04/19/96	---	---	---	---	33000	5600	3200	1700	8800	15000	---	SPL
RW-1	07/23/96	168.01	20.76	---	147.25	46000	3600	2300	900	5100	36000	7.4	SPL
QC-1 (c)	07/23/96	---	---	---	---	47000	3700	2500	930	5300	35000	---	SPL
RW-1	11/11/96	168.01	21.73	---	146.28	34000	3000	1200	880	4600	22000	8.3	SPL
QC-1 (c)	11/11/96	---	---	---	---	31000	2900	1000	860	4600	22000	---	SPL
RW-1	01/21/97	168.01	14.20	---	153.81	260	40	16	2.7	34	1500	6.1	SPL
QC-1 (c)	01/21/97	---	---	---	---	270	42	17	2.7	36	1500	---	SPL
RW-1	04/29/97	168.01	19.15	---	148.86	32000	3100	590	1300	6000	46000	5.3	SPL
RW-1	08/21/97	168.01	20.67	---	147.34	7600	730	58	370	1780	9500	4.7	SPL

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
RW-1	11/05/97	168.01	21.01	—	147.00	39000	2300	86	1300	3840	56000	4.5	SPL
RW-1	02/03/98	168.01	10.68	—	157.33	3400	31	11	29	161	3200	5.1	SPL
RW-1	05/28/98	168.01	15.55	—	152.46	2000	90	15	60	305	2700	4.3	SPL
RW-1	12/30/98	168.01	17.35	—	150.66	—	—	—	—	—	—	—	—
RW-1	02/02/99	168.01	14.58	—	153.43	82000	2300	120	2000	3200	51000/7800 (g)	—	SPL
RW-1	05/10/99	168.01	16.00	—	152.01	15000	620	88	340	660	61000	—	SPL
RW-1	08/24/99	168.01	20.00	—	148.01	52000	1400	170	2200	2900	37000	—	SPL
RW-1	11/03/99	168.01	20.39	—	147.62	17000	2500	86	1500	970	54000	—	PACE
RW-1	03/01/00	168.01	12.97	—	155.04	17000	580	78	790	1100	13000	—	PACE
RW-1	04/21/00	168.01	16.02	—	151.99	31000 (i)	2100	100	1400	1100	39000	—	PACE

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
QC-2 (f)	10/05/92	---	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	ANA
QC-2 (f)	01/13/93	---	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
QC-2 (f)	04/23/93	---	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
QC-2 (f)	07/12/93	---	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
QC-2 (f)	10/21/93	---	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
QC-2 (f)	01/21/94	---	---	---	---	ND<50	ND<0.5	2.1	ND<0.5	2.1	---	---	PACE
QC-2 (f)	04/20/94	---	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
QC-2 (f)	04/20/94	---	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
QC-2 (f)	12/23/94	---	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	ATI
QC-2 (f)	01/26/95	---	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1.0	---	---	ATI
QC-2 (f)	06/08/95	---	---	---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	ATI
QC-2 (f)	08/22/95	---	---	---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	(d)	ATI
QC-2 (f)	10/30/95	---	---	---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	ATI
QC-2 (f)	01/25/96	---	---	---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	CEI
QC-2 (f)	04/19/96	---	---	---	---	ND<50	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	SPL

ABBREVIATIONS:

TPH-G Total petroleum hydrocarbons as gasoline  
 B Benzene  
 T Toluene  
 E Ethylbenzene  
 X Total xylenes  
 MTBE Methyl tert butyl ether  
 DO Dissolved oxygen  
 ug/l Micrograms per liter  
 ppm Parts per million  
 --- Not analyzed/available/applicable/measurable  
 ND Not detected above reported detection limit  
 PACE Pace, Inc.  
 ANA Anametrix, Inc.  
 ATI Analytical Technologies, Inc.  
 CEI Ceimic Corporation  
 SPL Southern Petroleum Laboratories

NOTES:

(a) Casing elevations surveyed to the nearest 0.01 foot relative to mean sea level.  
 (b) Groundwater elevations adjusted assuming a specific gravity of 0.75 for free product.  
 (c) Blind duplicate.  
 (d) A copy of the documentation for this data is included in Appendix C of Alisto report 10-024-10-001.  
 (e) Well inaccessible.  
 (f) Travel blank.  
 (g) EPA Methods 8020/8260 used.  
 (h) Unable to sample  
 (i) Concentration of MTBE in the calculation of TPH-g is an estimate only.

TABLE 2 - PRODUCT REMOVAL STATUS

WELL ID	DATE OF MONITORING	PRODUCT THICKNESS (Feet)	PRODUCT REMOVED (Gallons)	PRODUCT REMOVED CUMULATIVE (Gallons)
MW-1	07/09/90	0.22	---	0.00
MW-1	12/21/90	0.58	---	0.00
MW-1	03/07/91	0.00	---	0.00
MW-1	06/27/91	0.18	---	0.00
MW-1	09/27/91	0.27	---	0.00
MW-1	12/18/91	0.28	---	0.00
MW-1	04/01/91	0.15	---	0.00
MW-1	07/03/92	0.27	---	0.00
MW-1	10/05/92	0.24	---	0.00
MW-1	01/13/93	0.24	---	0.00
MW-1	04/23/93	0.42	---	0.00
MW-1	07/12/93	0.49	---	0.00
MW-1	10/21/93	1.09	---	0.00
MW-1	01/21/94	0.76	---	0.00
MW-1	04/20/94	1.80	---	0.00
MW-1	08/01/94	0.35	---	0.00
MW-1	12/23/95	0.29	---	0.00
MW-1	01/26/99	1.10	---	0.00
MW-1	06/08/95	1.20	---	0.00
MW-1	08/22/95	0.85	---	0.00
MW-1	10/27/95	0.69	---	0.00
MW-1	01/25/96	1.40	---	0.00
MW-1	04/19/96	1.22	---	0.00
MW-1	07/23/96	0.89	---	0.00
MW-1	11/11/96	0.98	---	0.00
MW-1	01/21/97	0.90	---	0.00
MW-1	04/29/97	0.85	---	0.00
MW-1	04/30/97	---	---	0.00
MW-1	08/21/97	0.87	---	0.00
MW-1	11/05/97	0.54	---	0.00
MW-1	02/03/98	0.32	---	0.00
MW-1	02/04/98	---	---	0.00
MW-1	05/28/98	0.17	---	0.00
MW-1	12/30/98	0.08	0.02	0.02
MW-1	02/02/99	0.03	0.01	0.03
MW-1	05/10/99	0.03	0.01	0.04
MW-1	08/24/99	0.06	0.01	0.05
MW-1	11/03/99	0.36	0.05	0.10
MW-1	03/01/00	0.23	*	0.10
MW-1	04/21/00	0.33	0.07	0.17

\* There was no hazardous waste drum on-site, therefore no product was removed.

# Analytical Appendix



**Pace Analytical Services, Inc.**  
3970 Gilman Street  
Long Beach, CA 90815  
Phone: 562.498.9515  
Fax: 562.597.0786

May 03, 2000

Mr. MORGAN HARGRAVE  
BLAINE TECH SERVICES, INC.  
449 BLOSSOM HILL RD  
SAN JOSE, CA 12345

RE: Pace Project Number: 6040519  
Client Project ID: BP AMOCO 11132

Dear Mr. HARGRAVE:

Enclosed are the results of analyses for sample(s) received by the laboratory on April 26, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Lily Bayati", with a long, sweeping horizontal line extending to the right.

Lily Bayati  
Project Manager

Enclosures

## **REPORT OF LABORATORY ANALYSIS**

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**Pace Analytical Services, Inc.**  
 3970 Gilman Street  
 Long Beach, CA 90815  
 Phone: 562.498.9515  
 Fax: 562.597.0786

DATE: 05/03/00  
 PAGE: 1

BLAINE TECH SERVICES, INC.  
 449 BLOSSOM HILL RD  
 SAN JOSE, CA 12345

Pace Project Number: 6040519  
 Client Project ID: BP AMOCO 11132

Attn: Mr. MORGAN HARGRAVE  
 Phone: (408)573-0555 x218

Solid results are reported on a wet weight basis

Pace Sample No:	603425596	Date Collected:	04/21/00	Matrix:	Water
Client Sample ID:	BP AMOCO 11132 A	Date Received:	04/26/00		

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
------------	---------	-------	-----	----------	---------	------	-----------

Long Beach Laboratory

GAS BTEX by 8015, Water		Method: EPA 8015 Mod/8020			Prep Method: EPA 8015 Mod/8020		
Gasoline	88000	ug/l	7500	04/26/00	VN		
Benzene	2700	ug/l	75	04/26/00	VN	71-43-2	
Toluene	7400	ug/l	75	04/26/00	VN	108-88-3	
Ethylbenzene	3700	ug/l	75	04/26/00	VN	100-41-4	
Methyl-tert-butyl Ether	2400	ug/l	75	04/26/00	VN	1634-04-4	
Xylene (Total)	35000	ug/l	75	04/26/00	VN	1330-20-7	
a.a.a-Trifluorotoluene (S)	133	%		04/26/00	VN	2164-17-2	1

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DATE: 05/03/00  
 PAGE: 2

Pace Project Number: 6040519  
 Client Project ID: BP AMOCO 11132

Pace Sample No: 603425604 Date Collected: 04/21/00 Matrix: Water  
 Client Sample ID: BP AMOCO 11132 B Date Received: 04/26/00

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
------------	---------	-------	-----	----------	---------	------	-----------

Long Beach Laboratory

GAS BTEX by 8015, Water		Method: EPA 8015 Mod/8020		Prep Method: EPA 8015 Mod/8020			
Gasoline	68000	ug/l	7500	04/26/00	VN		
Benzene	3300	ug/l	75	04/26/00	VN	71-43-2	
Toluene	2500	ug/l	75	04/26/00	VN	108-88-3	
Ethylbenzene	3100	ug/l	75	04/26/00	VN	100-41-4	
Methyl-tert-butyl Ether	260	ug/l	75	04/26/00	VN	1634-04-4	
Xylene (Total)	20000	ug/l	75	04/26/00	VN	1330-20-7	
a,a,a-Trifluorotoluene (S)	111	%		04/26/00	VN	2164-17-2	

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DATE: 05/03/00  
 PAGE: 3

Pace Project Number: 6040519  
 Client Project ID: BP AMOCO 11132

Pace Sample No: 603425612 Date Collected: 04/21/00 Matrix: Water  
 Client Sample ID: BP AMOCO 11132 C Date Received: 04/26/00

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
------------	---------	-------	-----	----------	---------	------	-----------

Long Beach Laboratory

GAS BTEX by 8015, Water		Method: EPA 8015 Mod/8020		Prep Method: EPA 8015 Mod/8020			
Gasoline	55000	ug/l	7500	04/26/00	VN		
Benzene	260	ug/l	75	04/26/00	VN	71-43-2	
Toluene	920	ug/l	75	04/26/00	VN	108-88-3	
Ethylbenzene	1500	ug/l	75	04/26/00	VN	100-41-4	
Methyl-tert-butyl Ether	ND	ug/l	5	04/26/00	VN	1634-04-4	
Xylene (Total)	16000	ug/l	75	04/26/00	VN	1330-20-7	
a.a.a-Trifluorotoluene (S)	119	%		04/26/00	VN	2164-17-2	

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DATE: 05/03/00  
 PAGE: 4

Pace Project Number: 6040519  
 Client Project ID: BP AMOCO 11132

Pace Sample No: 603425620 Date Collected: 04/21/00 Matrix: Water  
 Client Sample ID: BP AMOCO 11132 D Date Received: 04/26/00

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
------------	---------	-------	-----	----------	---------	------	-----------

Long Beach Laboratory

GAS BTEX by 8015, Water		Method: EPA 8015 Mod/8020		Prep Method: EPA 8015 Mod/8020			
Gasoline	61000	ug/l	7500	04/26/00	VN		
Benzene	330	ug/l	75	04/26/00	VN	71-43-2	
Toluene	780	ug/l	75	04/26/00	VN	108-88-3	
Ethylbenzene	2700	ug/l	75	04/26/00	VN	100-41-4	
Methyl-tert-butyl Ether	1300	ug/l	75	04/26/00	VN	1634-04-4	
Xylene (Total)	17000	ug/l	75	04/26/00	VN	1330-20-7	
a,a,a-Trifluorotoluene (S)	108	%		04/26/00	VN	2164-17-2	

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DATE: 05/03/00  
 PAGE: 5

Pace Project Number: 6040519  
 Client Project ID: BP AMOCO 11132

Pace Sample No: 603425638 Date Collected: 04/21/00 Matrix: Water  
 Client Sample ID: BP AMOCO 11132 E Date Received: 04/26/00

Parameters Results Units PRL Analyzed Analyst CAS# Footnotes

Long Beach Laboratory

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
GAS BTEX by 8015, Water Method: EPA 8015 Mod/8020 Prep Method: EPA 8015 Mod/8020							
Gasoline	31000	ug/l	7500	04/26/00	VN		2
Benzene	2100	ug/l	75	04/26/00	VN	71-43-2	
Toluene	100	ug/l	7.5	04/26/00	VN	108-88-3	
Ethylbenzene	1400	ug/l	75	04/26/00	VN	100-41-4	
Methyl-tert-butyl Ether	39000	ug/l	1500	04/26/00	VN	1634-04-4	
Xylene (Total)	1100	ug/l	7.5	04/26/00	VN	1330-20-7	
a,a,a-Trifluorotoluene (S)	116	%		04/26/00	VN	2164-17-2	

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DATE: 05/03/00

PAGE: 6

Pace Project Number: 6040519

Client Project ID: BP AMOCO 11132

---

PARAMETER FOOTNOTES

ND Not Detected  
NC Not Calculable  
PRL Pace Reporting Limit  
(S) Surrogate  
[1] Matrix effect  
[2] Concentration of MTBE in the calculation of TPH-G is an estimate only.

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Fax: 562.597.0786

DATE: 05/03/00  
PAGE: 8

Pace Project Number: 6040519  
Client Project ID: BP AMOCO 11132

---

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

ND	Not Detected
NC	Not Calculable
PRL	Pace Reporting Limit
RPD	Relative Percent Difference
(S)	Surrogate

## **REPORT OF LABORATORY ANALYSIS**

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000421 N-2

# CHAIN OF CUSTODY

16377 A  
6040519

CONSULTANT'S NAME Blaine Tech Services, Inc.		CONSULTANT'S ADDRESS 1680 Rogers Ave., San Jose CA 95112			
BP SITE NUMBER 11132	BP SITE / FACILITY ADDRESS 3201 35th Avenue, Oakland			CONSULTANT PROJECT NUMBER 000421-N2	
CONSULTANT PROJECT MANAGER Morgan Hargrave		PHONE NUMBER (408) 573-0555 x 218	FAX NUMBER (408) 573-7771		CONSULTANT CONTRACT NUMBER J264372
BP CONTACT Scott Hooton	BP ADDRESS 295 SW 41st Street, Suite N, Renton WA		PHONE NUMBER (425) 251-0689		FAX NO. (425) 251-0736
LAB CONTACT Pace - Lily Bayati	LABORATORY ADDRESS 3970 Gilman Street, Long Beach, CA		PHONE NUMBER (562) 498-9515		FAX NO. (562) 597-0786
BP CONTACT REQUESTING RUSH TAT (Print BP Contact Name)		RUSH REQUESTED OF (Print Consultant Contact Name)		DATE/TIME	SHIPMENT DATE

TAT  24 HOURS  48 HOURS  72 HOURS  Standard 7 or 14 Days

ANALYSIS REQUIRED

AIRBILL NUMBER

SAMPLE DESCRIPTION	COLLECTION DATE	COLLECTION TIME	MATRIX SOIL/WATER	CONTAINERS		PRESERVATIVE	TPH-G + BTEX / MTBE (8015M)	TPH-D (8015M)	FUEL OXYGENATES (8260)	1,2 DCA + EDB (8010)										COMMENTS	
				NO.	TYPE (VOL)	LAB SAMPLE #															
A	4/21/00	1305	W	3	40ml	HEL	X														
B	↓	13:34	↓	↓	↓	↓	X														
C	↓	13:50	↓	↓	↓	↓	X														
D	↓	14:20	↓	↓	↓	↓	X														
E	↓	15:22	↓	↓	↓	↓	X														

SAMPLED BY (Please Print Name) Gerald J. Hault			SAMPLED BY (Signature) 				ADDITIONAL COMMENTS				
RELINQUISHED BY / AFFILIATION (Print Name / Signature)	DATE	TIME	ACCEPTED BY / AFFILIATION Name / Signature	(Print)	DATE	TIME					
	4/24/00	14:15			4/25/00	10:00					

# **Field Data Sheets**

WELL GAUGING DATA

Project # 0004121 N-2 Date 4/21/00 Client BP 11132

Site 3201 35th Av, Oakland

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
4 MW-1	2		17.78	.33	250	18.10	44.26	}	D
2 MW-2	2					16.59	34.27		B
MW-3	2					14.88	34.32		
MW-4	2					17.34	39.32		
MW-5	2					13.52	29.28		
MW-6	2					13.32	34.37		
MW-7	2					17.94	31.31		
MW-8	2		Inaccessible		Car Parked over well				
3 MW-9	2					14.29	29.32		C
1 MW-10	2					15.46	33.81		A
5 MW-1	6		FP stuck on probe			16.02	38.21	}	E
			No measurable thickness						

## BP WELL MONITORING DATA SHEET

Project #: <u>000421 N-2</u>	Station # <u>11132</u>
Sampler: <u>GT</u>	Date: <u>4/21/00</u>
Well I.D.: <u>MW 1</u>	Well Diameter: <u>(2)</u> 3 4 6 8 <u>    </u>
Total Well Depth: <u>44.26</u>	Depth to Water: <u>18.10</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC for</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Purge Method:

- Bailer
- Disposable Bailer
- Middleburg
- Electric Submersible Extraction Pump

Sampling Method:

- Bailer
- Disposable Bailer
- Extraction Port
- Other: \_\_\_\_\_

Other: \_\_\_\_\_

<u>4.2</u>	x	<u>3</u>	=	<u>12.6</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
<u>14:06</u>	<u>68.7</u>	<u>6.9</u>	<u>940</u>	<u>4.5</u>	<u>Strong Odor / Steam / Product</u>
<u>14:12</u>	<u>69.0</u>	<u>6.8</u>	<u>1220</u>	<u>9.0</u>	
<u>14:16</u>	<u>69.1</u>	<u>6.8</u>	<u>1302</u>	<u>130</u>	
			<u>ferrous</u>	<u>250 mL</u>	<u>Product</u>

Did well dewater? Yes  No  Gallons actually evacuated: 13

Sampling Time: 14:20 Sampling Date: 4/21/00

Sample I.D. (Blind): D Laboratory: Pace Other: \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other: \_\_\_\_\_

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

## BP WELL MONITORING DATA SHEET

Project #: <u>000421 N-2</u>	Station # <u>11132</u>
Sampler: <u>GT</u>	Date: <u>4/21/00</u>
Well I.D.: <u>MW-2</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth: <u>3427</u>	Depth to Water: <u>16.59</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Purge Method: Bailer      Sampling Method: Bailer  
Disposable Bailer      Disposable Bailer  
 Middleburg      Extraction Port  
 Electric Submersible  
 Extraction Pump  
 Other: \_\_\_\_\_

<u>2.8</u>	x	<u>3</u>	=	<u>8.4</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
13:24	69.5	6.7	1620	3	Heavy Steam / odor
13:27	69.7	6.7	1730	6	
13:30	69.4	6.6	1705	8.5	
		Empty skimmer ~ 5ml			

Did well dewater? Yes  No       Gallons actually evacuated: 8.5

Sampling Time: 13:34      Sampling Date: 4/21/00

Sample I.D. (Blind): B      Laboratory: Pace      Other: \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other: \_\_\_\_\_

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

## BP WELL MONITORING DATA SHEET

Project #: <u>0004/21 N-2</u>	Station # <u>11132</u>
Sampler: <u>GT</u>	Date: <u>4/21/00</u>
Well I.D.: <u>NW-8</u>	Well Diameter: <u>2</u> 3 4 6 8 _____
Total Well Depth: _____	Depth to Water: _____
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Purge Method:  Bailer  
 Disposable Bailer  
 Middleburg  
 Electric Submersible  
 Extraction Pump  
 Other: \_\_\_\_\_

Sampling Method:  Bailer  
 Disposable Bailer  
 Extraction Port  
 Other: \_\_\_\_\_

_____	X	_____ <u>5</u>	=	_____ Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
		<u>Inaccessible</u>			
		<u>Car parked over well</u>			
		<u>had numerous parking tickets on the sidewalk</u>			
		<u>unable to get moved</u>			

Did well dewater? Yes  No  Gallons actually evacuated: \_\_\_\_\_

Sampling Time: \_\_\_\_\_ Sampling Date: 4/21/00

Sample I.D. (Blind): \_\_\_\_\_ Laboratory: Pace Other \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other: \_\_\_\_\_

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

## BP WELL MONITORING DATA SHEET

Project #: 000421, V-2	Station # 11132
Sampler: BT	Date: 4/21/00
Well I.D.: MW-9	Well Diameter: (2) 3 4 6 8 _____
Total Well Depth: 29.32	Depth to Water: 14.29
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVCra Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Purge Method: Bailer <u>Disposable Bailer</u> Middleburg Electric Submersible Extraction Pump	Sampling Method: Bailer <u>Disposable Bailer</u> Extraction Port Other: _____
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Other: \_\_\_\_\_

2.4	x	3	=	7.2	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
13:39	69.7	6.9	1700	2.5	heavy green / odor
13:43	69.2	6.9	1884	5.0	
13:47	70.1	6.7	1192	7.5	
			Emp too ↓	Skipped	~ 15 mL

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: 7.5	
Sampling Time: 13:50	Sampling Date: 4/21/00	
Sample I.D. (Blind): C	Laboratory: <u>Pace</u> Other: _____	
Analyzed for: <u>TPH-G</u> <u>BTEX</u> <u>MTBE</u> TPH-D Other: _____		
D.O. (if req'd):	Pre-purge: _____ mg/L	Post-purge: _____ mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV	Post-purge: _____ mV

## BP WELL MONITORING DATA SHEET

Project #: 000421N-2	Station # 11132
Sampler: 6T	Date: 4/21/00
Well I.D.: MW-10	Well Diameter: (2) 3 4 6 8
Total Well Depth: 33.81	Depth to Water: 15.46
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC for Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Purge Method: Bailer  
 Disposable Bailer  
 Middleburg  
 Electric Submersible  
 Extraction Pump  
 Other: \_\_\_\_\_

Sampling Method: Bailer  
 Disposable Bailer  
 Extraction Port  
 Other: \_\_\_\_\_

7.9	x	3	=	9.7	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
12:52	68.2	6.9	1129	3	Heavy Skum
12:56	67.9	6.8	1211	6	FP on Bailer
13:00	67.6	6.8	1222	9	
					Fractured Skimmer = 0

Did well dewater? Yes  No  Gallons actually evacuated: 9

Sampling Time: 13:05 Sampling Date: 4/21/00

Sample I.D. (Blind): A Laboratory: Pace Other: \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other: \_\_\_\_\_

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV



## BP WELL MONITORING DATA SHEET

Project #: <u>000421, V-2</u>	Station # <u>11132</u>
Sampler: <u>GT</u>	Date: <u>4/21/00</u>
Well I.D.: <u>RW-1</u>	Well Diameter: 2 3 4 <u>6</u> 8 _____
Total Well Depth: <u>38.21</u>	Depth to Water: <u>16.02</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Purge Method: Bailer      Sampling Method: Bailer  
                   Disposable Bailer    (Disposable Bailer)  
                   Middleburg    Extraction Port  
                   Electric Submersible    Other: \_\_\_\_\_  
                   Extraction Pump

Other: \_\_\_\_\_

<u>32-6</u>	X	<u>3</u>	=	<u>97.8</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
<u>15:05</u>	<u>72.1</u>	<u>6.4</u>	<u>942</u>	<u>33</u>	<u>Stagnant</u>
<u>15:14</u>	<u>71.9</u>	<u>6.5</u>	<u>937</u>	<u>66</u>	<u>Product stuck on well &amp;</u>
<u>15:14</u>	<u>71.9</u>	<u>6.6</u>	<u>935</u>	<u>99</u>	<u>pump</u>
					<u>Removed pump to</u>
					<u>sample</u>

Did well dewater? Yes  No  Gallons actually evacuated: 99

Sampling Time: 1522      Sampling Date: 4/21/00

Sample I.D. (Blind): E      Laboratory: Pace      Other: \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other: \_\_\_\_\_

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV