



Scott T. Hooton  
Portfolio Manager

STP  
780

**BP Oil Company**  
**Midwest Environmental Services**  
295 SW 41<sup>st</sup> Street  
Bldg. 13, Suite N  
Renton, WA 98055

Switchboard: 425/251-0667  
Central Fax: 425/251-0736

December 22, 2000

Mr. Amir K. Gholami  
Alameda Country Health Care Services  
Agency  
1131 Harbor Bay Parkway, STE 250  
Alameda, CA 94502-6577

RE: Former BP Oil Site No. 11107  
18501 Hesperian Boulevard  
San Lorenzo, CA

Direct: 425/251-0689  
Cell: 206/919-5029  
hootonst@bp.com  
www.bp.com

Dear Mr. Gholami:

This transmits the *Fourth Quarter 2000 Groundwater Monitoring* report prepared on behalf of BP by Blaine Tech Services. The report summarizes chemical data obtained since 1992, including results associated with samples obtained on 30 October 2000.

The enclosed report shows that concentrations of petroleum hydrocarbons are generally decreasing, consistent with the natural attenuation of a petroleum hydrocarbons release. The highest MTBE concentrations are associated with samples obtained from well MW-5 (360 ug/l). BP requests a finding for "case closure" and "no further action" based on these declining concentrations.

Please contact me at (425) 251-0689 if you have questions.

Sincerely,



Scott Hooton

attachment

cc: site file  
David Camille - Tosco (w/attachment)  
Khaled Rahman - Cambria (w/attachment)

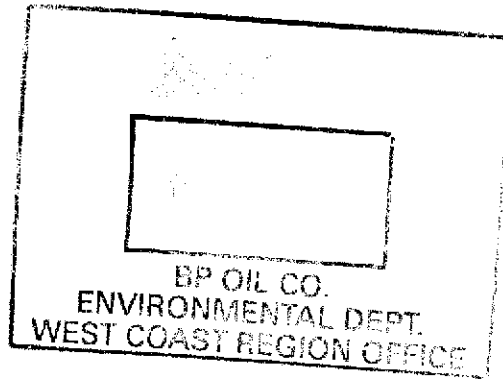
**BLAINE**  
TECH SERVICES, INC.



1680 ROGERS AVENUE  
SAN JOSE, CA 95112-1105  
(408) 573-7771 FAX  
(408) 573-0555 PHONE  
CONTRACTOR'S LICENSE #746684  
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December 15, 2000

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



#### 4th Quarter 2000 Monitoring at 11107

Fourth Quarter 2000 Groundwater Monitoring  
BP Service Station Number 11107  
18501 Hesperian Boulevard  
San Lorenzo, CA

Monitoring Performed on October 30, 2000

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#### Groundwater Sampling Report 001030-X-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.

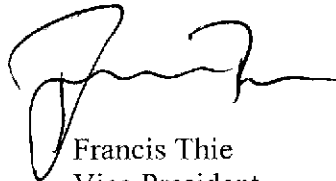
Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL DATA AND ANALYTICAL RESULTS**. The full analytical report for the most recent samples is located in the **Analytical Appendix**. The **Professional Engineering Appendix** 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,

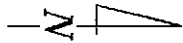


Francis Thie  
Vice President

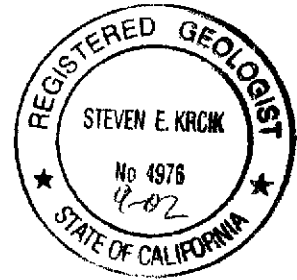
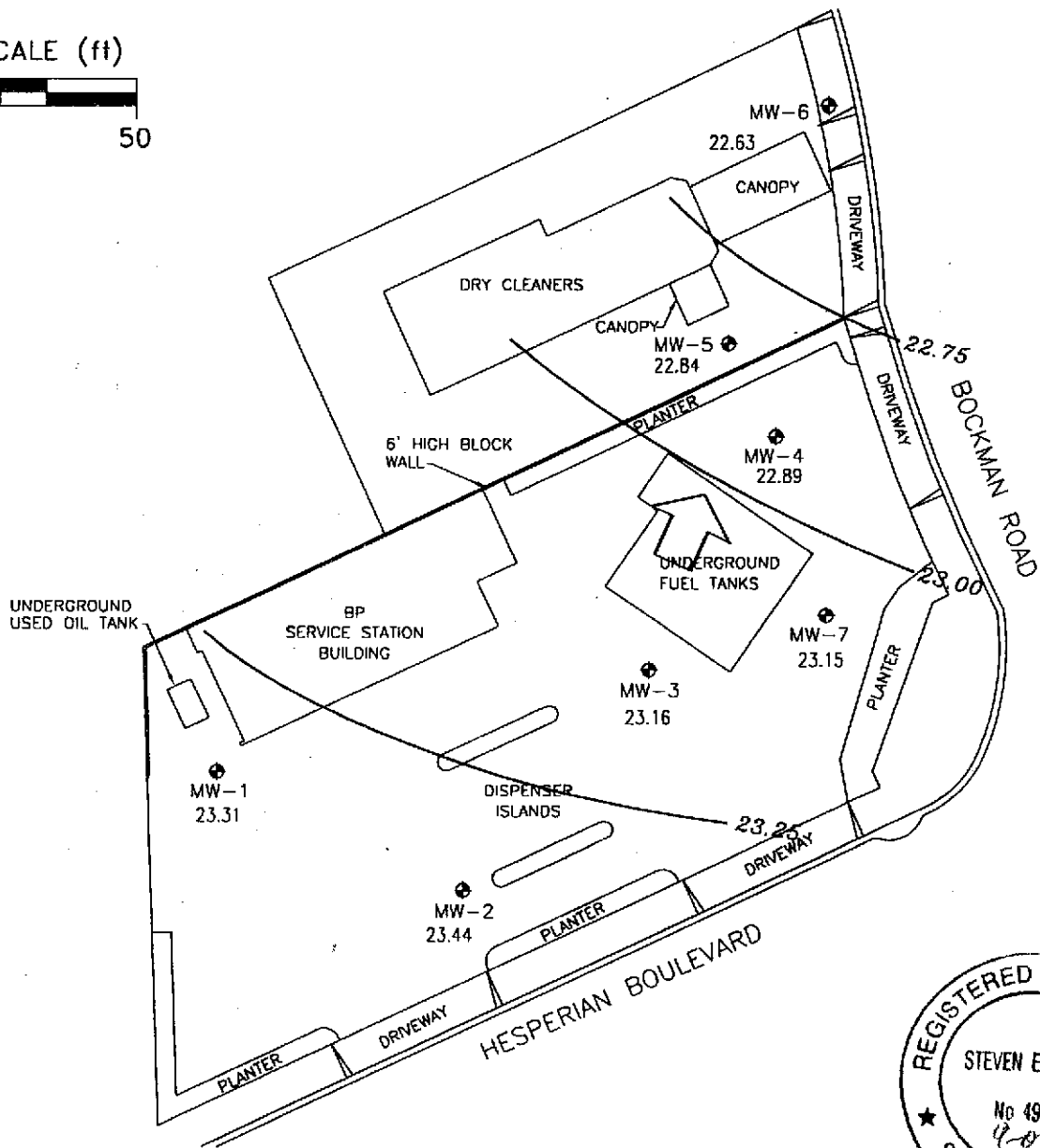
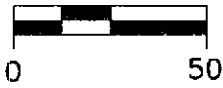
FPT/cm

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

# **Professional Engineering Appendix**



SCALE (ft)



EXPLANATION

- ⊕ GROUNDWATER MONITORING WELL
- 23.44 GROUNDWATER ELEVATION (FT, MSL)
- 23.25 — GROUNDWATER ELEVATION CONTOUR (FT, MSL)
- APPROXIMATE GROUNDWATER FLOW DIRECTION;  
APPROXIMATE GRADIENT = 0.003

Ref. 111107bm.dwg  
Base map from Alisto Engineering Group

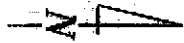
PREPARED BY



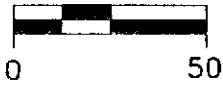
**BP Service Station No. 11107**  
18501 Hesperian Boulevard  
San Lorenzo, California

**GROUNDWATER ELEVATION CONTOUR MAP,**  
OCTOBER 30, 2000

FIGURE:  
**1**  
PROJECT:  
DAC04



SCALE (ft)

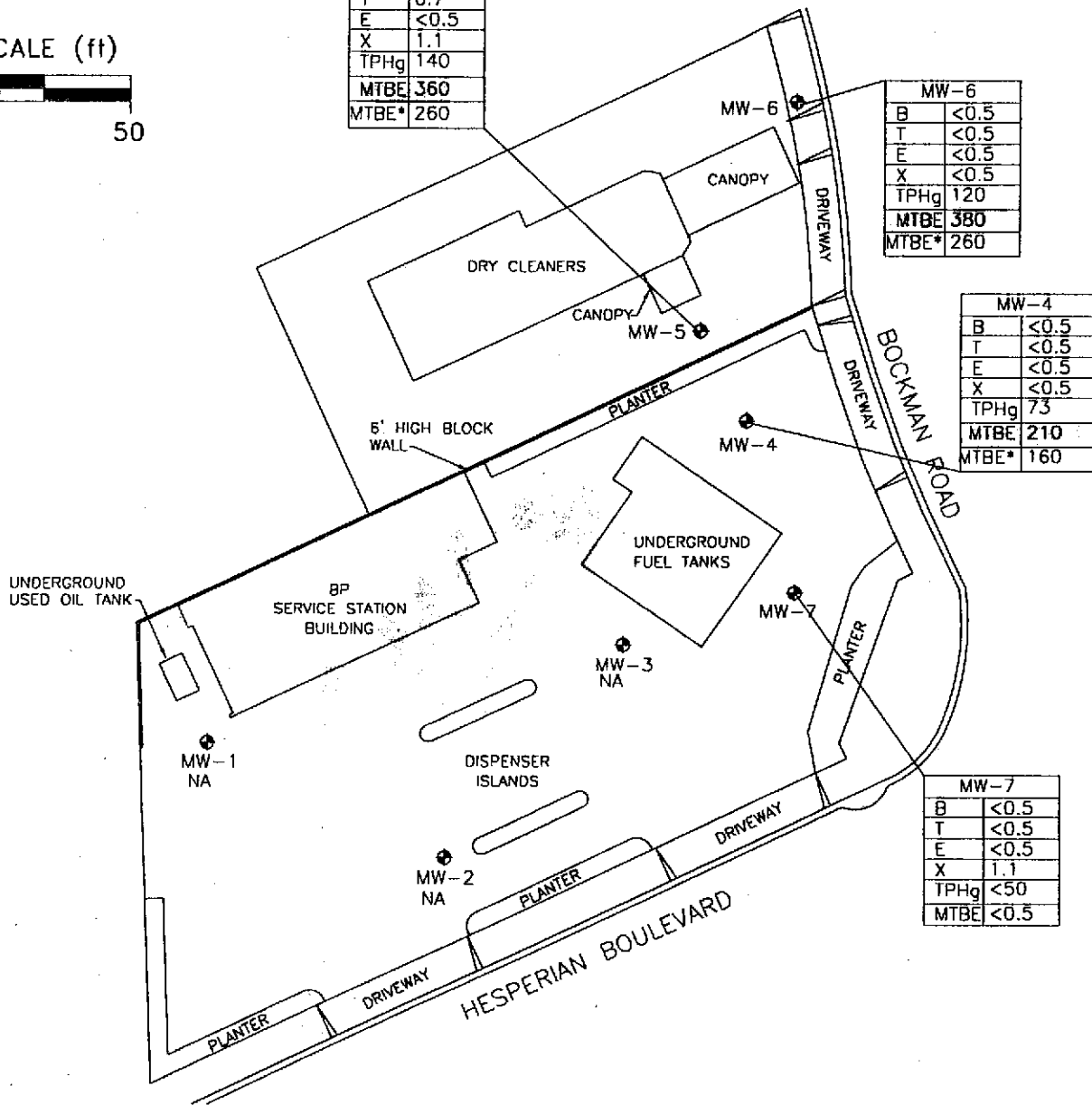


MW-5	
B	<0.5
T	0.7
E	<0.5
X	1.1
TPHg	140
MTBE	360
MTBE*	260

MW-6	
B	<0.5
T	<0.5
E	<0.5
X	<0.5
TPHg	120
MTBE	380
MTBE*	260

MW-4	
B	<0.5
T	<0.5
E	<0.5
X	<0.5
TPHg	73
MTBE	210
MTBE*	160

MW-7	
B	<0.5
T	<0.5
E	<0.5
X	1.1
TPHg	<50
MTBE	<0.5



**EXPLANATION**

- ◆ GROUNDWATER MONITORING 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
- MTBE\* MTBE BY 8260
- NA DATA NOT AVAILABLE

Ref. 111107blex.dwg  
 Basemap from Alisto Engineering Group

PREPARED BY



**BP Service Station No. 11107**  
 18501 Hesperian Boulevard  
 San Lorenzo, California

**HYDROCARBON CONCENTRATION MAP,**  
**OCTOBER 30, 2000**

**FIGURE:**  
**2**  
**PROJECT:**  
 DAC04

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

Table 1 - Summary of Results of Groundwater Sampling

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (Feet)	TPH-G (b) (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TOG (ug/l)	1,1,1-TCA (ug/l)	PCE (ug/l)	DO (ppm)	LAB
MW-1	11/04/92	41.07	20.78	20.29	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	ND<5000	2.8	ND	---	PACE
QC-1	(c) 11/04/92	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	PACE
MW-1	02/24/94	41.07	20.70	20.37	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	ND<5000	1.5	0.9	---	PACE
MW-1	05/12/94	41.07	18.12	22.95	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	ND<5000	1.0	ND<0.5	7	PACE
MW-1	09/09/94	41.07	21.74	19.33	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	ND<5000	ND<0.5	ND<0.5	2.3	PACE
MW-1	11/03/94	41.07	20.01	21.06	ND<50	50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	ND<5000	ND<0.5	ND<0.5	4.3	PACE
MW-1	03/01/95	41.07	17.44	23.63	ND<50	ND<500	ND<50	ND<0.50	ND<0.50	ND<1.0	---	420	0.54	0.3	2.3	ATI
MW-1	06/06/95	41.07	17.55	23.52	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	09/01/95	41.07	18.19	22.88	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	60	---	---	8.8	ATI
MW-1	11/29/95	41.07	18.84	22.23	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	03/23/96	41.07	16.97	24.10	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	9.6	SPL
MW-1	09/05/96	41.07	17.74	23.33	110	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	3.6	SPL
MW-1	03/11/97	41.07	17.62	23.45	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	5.2	SPL
MW-1	12/08/97	41.07	16.30	24.77	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	---	---
MW-1	07/08/98	41.07	16.66	24.41	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	12/07/98	41.07	17.80	23.27	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	01/19/99	41.07	17.18	23.89	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	04/23/99	41.07	17.40	23.67	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	07/20/99	41.07	17.76	23.31	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	02/29/00	41.07	17.17	23.90	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	04/14/00	41.07	17.22	23.85	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	07/24/00	41.07	17.61	23.46	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	10/30/00	41.07	17.76	23.31	---	---	---	---	---	---	---	---	---	---	---	---



Table 1 - Summary of Results of Groundwater Sampling

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (Feet)	TPH-G (b) (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TOG (ug/l)	1,1,1-TCA (ug/l)	PCE (ug/l)	DO (ppm)	LAB
MW-2	11/04/92	40.56	20.16	20.40	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	PACE
MW-2	02/24/94	40.56	20.12	20.44	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	PACE
MW-2	05/12/94	40.56	17.49	23.07	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	7.4	PACE
MW-2	09/09/94	40.56	21.12	19.44	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	2.1	PACE
MW-2	11/03/94	40.56	19.36	21.20	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	4.2	PACE
MW-2	03/01/95	40.56	16.83	23.73	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	2.2	ATI
MW-2	06/06/95	40.56	16.96	23.60	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	09/01/95	40.56	17.54	23.02	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	---	---	7.9	ATI
MW-2	11/29/95	40.56	18.19	22.37	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	03/23/96	40.56	16.35	24.21	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	---	---	8.5	SPL
MW-2	09/05/96	40.56	17.55	23.01	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	3.2	SPL
MW-2	03/11/97	40.56	16.95	23.61	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	2.9	SPL
MW-2	12/08/97	40.56	16.01	24.55	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	3.0	SPL
MW-2	07/08/98	40.56	16.41	24.15	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	12/07/98	40.56	17.15	23.41	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	01/19/99	40.56	17.15	23.41	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	04/23/99	40.56	16.89	23.67	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	07/20/99	40.56	17.25	23.31	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	12/30/99	40.56	17.44	23.12	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	02/29/00	40.56	16.13	24.43	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	04/14/00	40.56	16.88	23.68	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	07/24/00	40.56	17.11	23.45	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	10/30/00	40.56	17.12	23.44	---	---	---	---	---	---	---	---	---	---	---	---

Table 1 - Summary of Results of Groundwater Sampling

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (Feet)	TPH-G (b) (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TOG (ug/l)	1,1,1-TCA (ug/l)	PCE (ug/l)	DO (ppm)	LAB
MW-3	11/04/92	40.45	20.23	20.22	760	---	3.7	15	1.9	57	---	---	---	---	---	PACE
MW-3	02/24/94	40.45	20.24	20.21	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	PACE
MW-3	05/12/94	40.45	17.61	22.84	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	7.3	PACE
MW-3	09/09/94	40.45	21.22	19.23	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	2	PACE
MW-3	11/03/94	40.45	19.48	20.97	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	3.6	PACE
MW-3	03/01/95	40.45	17.08	23.37	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	1.9	ATI
MW-3	06/06/95	40.45	17.21	23.24	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	09/01/95	40.45	17.69	22.76	200	---	2.7	33	7.2	43	ND<5.0	---	---	---	7.8	ATI
MW-3	09/01/95	40.45	18.29	22.16	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	03/23/96	40.45	16.59	23.86	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	---	---	7.3	SPL
MW-3	09/05/96	40.45	17.71	22.74	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	3.2	SPL
MW-3	03/11/97	40.45	17.17	23.28	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	1.5	SPL
MW-3	12/08/97	40.45	16.12	24.33	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	1.9	SPL
MW-3	07/08/98	40.45	16.40	24.05	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	12/07/98	40.45	17.32	23.13	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	01/19/99	40.45	17.30	23.15	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	04/23/99	40.45	17.07	23.38	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	07/20/99	40.45	17.47	22.98	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	12/30/99	40.45	17.60	22.85	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	02/29/00	40.45	16.43	24.02	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	04/14/00	40.45	17.09	23.36	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	07/24/00	40.45	17.44	23.01	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	10/30/00	40.45	17.29	23.16	---	---	---	---	---	---	---	---	---	---	---	---

Table 1 - Summary of Results of Groundwater Sampling

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MW-4	11/04/92	39.24	19.18	20.06	900	---	150	4.1	0.8	53	---	---	---	---	---	PACE
MW-4	02/24/94	39.24	19.22	20.02	240	---	110	3.8	1.8	11	1400 (d)	---	---	---	---	PACE
QC-1 (c)	02/24/94	---	---	---	310	---	95	5.3	2.2	17	1500 (d)	---	---	---	---	PACE
MW-4	05/12/94	39.24	16.62	22.62	ND<50	---	2.2	1.0	ND<0.5	ND<0.5	860 (d)	---	---	---	7.3	PACE
QC-1 (c)	05/12/94	---	---	---	430	---	2.6	1.3	ND<0.5	ND<0.5	780 (d)	---	---	---	---	PACE
MW-4	09/09/94	39.24	20.27	18.97	240	---	9.1	1.3	0.6	2.5	---	---	---	---	2.2	PACE
QC-1 (c)	09/09/94	---	---	---	57	---	1.7	ND<0.5	ND<0.5	0.5	---	---	---	---	---	PACE
MW-4	11/03/94	39.24	18.46	20.78	250	---	3.1	2.8	1.0	3.3	---	---	---	---	3.2	PACE
QC-1 (c)	11/03/94	---	---	---	110	---	2.4	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	PACE
MW-4	03/01/95	39.24	16.15	23.09	8900	---	1800	26	450	400	---	---	---	---	2.0	ATI
QC-1 (c)	03/01/95	---	---	---	7600	---	1700	25	410	370	---	---	---	---	---	ATI
MW-4	06/06/95	39.24	16.28	22.96	3100	---	(e) 530	25	170	85	---	---	---	---	---	ATI
QC-1 (c)	06/06/95	---	---	---	3000	---	530	27	170	92	---	---	---	---	---	ATI
MW-4 (f)	09/01/95	39.24	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	11/29/95	39.24	17.31	21.93	ND<50	---	1.8	ND<0.50	ND<0.50	ND<1.0	440	---	---	---	3.2	ATI
QC-1 (c)	11/29/95	---	---	---	ND<50	---	1.5	ND<0.50	ND<0.50	ND<1.0	490	---	---	---	---	ATI
MW-4	03/23/96	39.24	15.74	23.50	2700	---	480	ND<25	180	176	13000	---	---	---	7.8	SPL
MW-4	09/05/96	39.24	16.75	22.49	1100	---	ND<12	ND<25	ND<25	ND<25	3200	---	---	---	4.0	SPL
MW-4	03/11/97	39.24	16.10	23.14	2400	---	46	ND<10	66	106	3400	---	---	---	4.0	SPL
MW-4	12/08/97	39.24	15.96	23.28	590	---	11	ND<1.0	ND<1.0	ND<1.0	1200	---	---	---	4.4	SPL
QC-1 (c)	12/08/97	---	---	---	620	---	11	ND<1.0	ND<1.0	ND<1.0	1100	---	---	---	---	SPL
MW-4	07/08/98	39.24	16.28	22.96	1700	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	1200	---	---	---	3.9	SPL
QC-1 (c)	07/08/98	---	---	---	1600	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	1100	---	---	---	---	SPL
MW-4	12/07/98	39.24	16.47	22.77	530	---	ND<2.5	ND<5.0	ND<5.0	ND<5.0	680/910 (h)	---	---	---	---	SPL
MW-4	01/19/99	39.24	16.40	22.84	570	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	660	---	---	---	---	SPL
MW-4	04/23/99	39.24	16.17	23.07	ND<50	---	ND<1.0	ND<1.0	1.8	1.3	1100/810 (h)	---	---	---	---	SPL
MW-4	07/20/99	39.24	16.39	22.85	ND<50	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	480	---	---	---	---	SPL
MW-4	12/30/99	39.24	16.56	22.68	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	410	---	---	---	---	PACE
MW-4	02/29/00	39.24	15.69	23.55	78 (i)	---	2.0	ND<0.5	0.77	2.8	1200	---	---	---	---	PACE
MW-4	04/14/00	39.24	16.21	23.03	300	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	800	---	---	---	---	PACE
MW-4	07/24/00	39.24	16.50	22.74	130	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	270	---	---	---	---	PACE
MW-4	10/30/00	39.24	16.35	22.89	73	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	210	---	---	---	---	PACE

Table 1 - Summary of Results of Groundwater Sampling

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TOG (ug/l)	1,1,1-TCA (ug/l)	PCE (ug/l)	DO (ppm)	LAB
MW-5	06/06/95	39.07	16.16	22.91	1100	--	(e) 42	ND<2.5	15	4.0	--	--	--	--	--	ATI
MW-5	09/01/95	39.07	16.63	22.44	1600	--	55	ND<2.5	15	8.0	1200	--	--	--	7.4	ATI
QC-1	(c) 09/01/95	--	--	--	1200	--	64	ND<2.5	14	3.1	--	--	--	--	--	ATI
MW-5	11/29/95	39.07	17.19	21.88	2300	--	140	4.0	36	11	1500	--	--	--	4.1	ATI
MW-5	03/23/96	39.07	15.54	23.53	90	--	2.8	ND<1	ND<1	ND<1	1500	--	--	--	7.5	SPL
MW-5	09/05/96	39.07	16.72	22.35	2300	--	5.1	ND<1.0	ND<1.0	ND<1.0	3300	--	--	--	3.2	SPL
QC-1	(c) 09/05/96	--	--	--	2000	--	4.9	ND<1.0	ND<1.0	ND<1.0	2900	--	--	--	--	SPL
MW-5	03/11/97	39.07	16.12	22.95	470	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	580	--	--	--	3.0	SPL
QC-1	(c) 03/11/97	--	--	--	460	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	540	--	--	--	--	SPL
MW-5	12/08/97	39.07	15.85	23.22	370	--	ND<0.5	ND<1.0	ND<1.0	ND<1.0	840	--	--	--	3.0	SPL
MW-5	07/08/98	39.07	16.11	22.96	430	--	ND<0.5	ND<1.0	ND<1.0	ND<1.0	330	--	--	--	2.5	SPL
MW-5	12/07/98	39.07	16.27	22.80	220	--	ND<0.5	ND<1.0	ND<1.0	ND<1.0	290/410 (h)	--	--	--	--	SPL
MW-5	01/19/99	39.07	16.31	22.76	490	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	490/440 (h)	--	--	--	--	SPL
MW-5	04/23/99	39.07	16.00	23.07	ND<50	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	310/210 (h)	--	--	--	--	SPL
MW-5	07/20/99	39.07	16.36	22.71	ND<50	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	470	--	--	--	--	SPL
MW-5	12/30/99	39.07	16.53	22.54	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	550	--	--	--	--	PACE
MW-5	02/29/00	39.07	15.45	23.62	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	280	--	--	--	--	PACE
MW-5	04/14/00	39.07	16.10	22.97	81	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	240	--	--	--	--	PACE
MW-5	07/24/00	39.07	16.50	22.57	250	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	570	--	--	--	--	PACE
MW-5	10/30/00	39.07	16.23	22.84	140	--	ND<0.5	0.7	ND<0.5	1.1	360	--	--	--	--	PACE
MW-6	03/01/95	38.46	15.66	22.80	270	--	11	ND<0.50	ND<0.50	ND<1.0	--	--	--	--	1.6	ATI
MW-6	06/06/95	38.46	15.82	22.64	220	--	(e) 2.3	ND<0.50	ND<0.50	ND<1.0	--	--	--	--	--	ATI
MW-6	09/01/95	38.46	16.25	22.21	780	--	ND<2.5	ND<2.5	ND<2.5	ND<5.0	2800	--	--	--	7.5	ATI
MW-6	11/29/95	38.46	16.80	21.66	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1100	--	--	--	3.9	ATI
MW-6	03/23/96	38.46	15.27	23.19	50	--	ND<0.5	ND<1	ND<1	ND<1	910	--	--	--	8.0	SPL
MW-6	09/05/96	38.46	16.30	22.16	4400	--	ND<0.5	ND<1.0	ND<1.0	ND<1.0	7400	--	--	--	3.0	SPL
MW-6	03/11/97	38.46	15.75	22.71	1100	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	2000	--	--	--	3.1	SPL
MW-6	12/08/97	38.46	15.51	22.95	150	--	ND<0.5	ND<1.0	ND<1.0	ND<1.0	140	--	--	--	3.4	SPL
MW-6	07/08/98	38.46	15.78	22.68	370	--	ND<0.5	ND<1.0	ND<1.0	ND<1.0	250	--	--	--	3.6	SPL
MW-6	12/07/98	38.46	15.95	22.51	440	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	630/820 (h)	--	--	--	--	--
MW-6	01/19/99	38.46	15.97	22.49	950	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	950/810 (h)	--	--	--	--	SPL
MW-6	04/23/99	38.46	15.74	22.72	ND<50	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	310/220 (h)	--	--	--	--	SPL
MW-6	07/20/99	38.46	16.12	22.34	ND<50	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1300	--	--	--	--	SPL
MW-6	12/30/99	38.46	16.16	22.30	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	360	--	--	--	--	PACE
MW-6	02/29/00	38.46	15.08	23.38	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	340	--	--	--	--	PACE
MW-6	04/14/00	38.46	15.82	22.64	90	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	220	--	--	--	--	PACE
MW-6	07/24/00	38.46	16.03	22.43	240	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	540	--	--	--	--	PACE
MW-6	10/30/00	38.46	15.83	22.63	120	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	380	--	--	--	--	PACE

Table 1 - Summary of Results of Groundwater Sampling

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (Feet)	TPH-G (b) (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TOG (ug/l)	1,1,1-TCA (ug/l)	PCE (ug/l)	DO (ppm)	LAB
MW-7	03/01/95	39.50	16.21	23.29	1400	---	14	ND<1.0	14	27	---	---	---	---	1.8	ATI
MW-7	06/06/95	39.50	16.34	23.16	540	---	(e) 5.5	ND<0.50	15	1.1	---	---	---	---	---	ATI
MW-7	09/01/95	39.50	16.74	22.76	190	---	2.8	ND<0.50	5.0	ND<1.0	10	---	---	---	7.5	ATI
MW-7	11/29/95	39.50	17.33	22.17	230	---	31	ND<0.50	3.8	1.9	ND<5.0	---	---	---	4.6	ATI
MW-7	03/23/96	39.50	15.86	23.64	ND<50	---	5.0	ND<1	ND<1	ND<1	330	---	---	---	7.2	SPL
QC-1 (c)	03/23/96	---	---	---	60	---	7.6	ND<1	ND<1	ND<1	360	---	---	---	---	SPL
MW-7	09/05/96	39.50	16.80	22.70	200	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	430	---	---	---	3.1	SPL
MW-7	03/11/97	39.50	18.32	21.18	120	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	140	---	---	---	4.7	SPL
MW-7	12/08/97	39.50	16.02	23.48	240	---	0.8	ND<1.0	ND<1.0	ND<1.0	200	---	---	---	5.2	SPL
MW-7	07/08/98	39.50	16.32	23.18	270	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	170	---	---	---	4.8	SPL
MW-7	12/07/98	39.50	16.43	23.07	100	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	120	---	---	---	---	SPL
MW-7	01/19/99	39.50	16.41	23.09	80	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	80	---	---	---	---	SPL
MW-7	04/23/99	39.50	16.21	23.29	ND<50	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	20	---	---	---	---	SPL
MW-7	07/20/99	39.50	16.54	22.96	ND<50	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	24	---	---	---	---	SPL
MW-7	12/30/99	39.50	16.65	22.85	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	12	---	---	---	---	PACE
MW-7	02/29/00	39.50	15.71	23.79	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.0	---	---	---	---	PACE
MW-7	04/14/00	39.50	16.25	23.25	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4.0	---	---	---	---	PACE
MW-7	07/24/00	39.50	16.63	22.87	ND<50	---	1.1	0.5	ND<0.5	ND<0.5	3.1	---	---	---	---	PACE
MW-7	10/30/00	39.50	16.35	23.15	ND<50	---	ND<0.5	ND<0.5	ND<0.5	1.1	ND<0.5	---	---	---	---	PACE
QC-2 (g)	11/04/92	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	PACE
QC-2 (g)	11/04/92	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	PACE
QC-2 (g)	03/01/95	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1.0	---	---	---	---	---	PACE
QC-2 (g)	05/12/94	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	PACE
QC-2 (g)	09/09/94	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	PACE
QC-2 (g)	11/03/94	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	PACE
QC-2 (g)	06/06/95	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	ATI
QC-2 (g)	09/01/95	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	---	---	---	ATI
QC-2 (g)	11/29/95	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	---	---	---	ATI
QC-2 (g)	03/23/96	---	---	---	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	---	---	---	SPL

Table 1 - Summary of Results of Groundwater Sampling

ADDITIONAL ANALYSES

WELL ID	DATE OF SAMPLING/ MONITORING	1,2-DCA by 8010 (ug/l)	EDB by 8010 (ug/l)	1,2-DCA by 8260 (ug/l)	EDB by 8260 (ug/l)	MTBE by 8260 (ug/l)	DIPE by 8260 (ug/l)	ETBE by 8260 (ug/l)	TBA by 8260 (ug/l)	TAME by 8260 (ug/l)
MW-4	07/20/99	ND<1.0	ND<1.0	ND<1.0	ND<1.0	590	ND<10	ND<5.0	ND<500	ND<5.0
MW-4	12/30/99	---	---	ND<5.0	ND<5.0	280	ND<5.0	ND<5.0	---	ND<5.0
MW-4	02/29/00	---	---	ND<20	ND<20	870	ND<20	ND<20	---	ND<20
MW-4	04/14/00	---	---	ND<10	ND<10	730	ND<10	ND<10	---	ND<10
MW-4	07/24/00	---	---	ND<1.0	ND<1.0	390	ND<5.0	ND<5.0	ND<50	ND<5.0
MW-4	10/30/00	---	---	ND<5.0	ND<5.0	160	ND<5.0	ND<5.0	ND<50	ND<5.0
MW-5	07/20/99	---	---	---	---	490	ND<10	ND<10	ND<500	ND<10
MW-5	12/30/99	---	---	---	---	470	ND<10	ND<10	---	ND<10
MW-5	02/29/00	---	---	ND<5.0	ND<5.0	190	ND<5.0	ND<5.0	---	ND<5.0
MW-5	04/14/00	---	---	---	---	200	ND<5.0	ND<5.0	---	ND<5.0
MW-5	07/24/00	---	---	---	---	630	ND<5.0	ND<5.0	ND<50	ND<5.0
MW-5	10/30/00	---	---	---	---	260	ND<10	ND<10	ND<100	ND<10
MW-6	07/20/99	---	---	---	---	1400	ND<10	ND<10	ND<500	ND<10
MW-6	12/30/99	---	---	---	---	300	ND<5.0	ND<5.0	---	ND<5.0
MW-6	02/29/00	---	---	ND<5.0	ND<5.0	240	ND<5.0	ND<5.0	---	ND<5.0
MW-6	04/14/00	---	---	---	---	200	ND<5.0	ND<5.0	---	ND<5.0
MW-6	07/24/00	---	---	---	---	600	ND<5.0	ND<5.0	62	ND<5.0
MW-6	10/30/00	---	---	---	---	260	ND<10	ND<10	ND<100	ND<10

Table 1 - Summary of Results of Groundwater Sampling

ABBREVIATIONS:

TPH-G	Total petroleum hydrocarbons as gasoline
TPH-D	Total petroleum hydrocarbons as diesel
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total xylenes
MTBE	Methyl tert butyl ether
TOG	Total oil and grease
1,1,1-TCA	1,1,1-Trichloroethane
PCE	Tetrachloroethene
1,2-DCA	1,2-Dichloroethane
EDB	1,2-Dibromoethane
DIPE	Di-isopropyl Ether
ETBE	tert-Butyl Ethyl Ether
TBA	t-Butyl Alcohol
TAME	tert-Amyl Methyl Ether
DO	Dissolved oxygen
ug/l	Micrograms per liter
ppm	Parts per million
ND	Not detected above reported detection limit
--	Not measured/analyzed/applicable
PACE	Pace, Inc.
ATI	Analytical Technologies, Inc.
SPL	Southern Petroleum Laboratories

NOTES:

- (a) Top of casing elevations surveyed relative to an established benchmark with an elevation of 39.95 feet above mean sea level.
- (b) Groundwater elevations in feet above mean sea level.
- (c) Blind duplicate.
- (d) A copy of the documentation for this data is included in Appendix C of Alisto report 10-060-07-001.
- (e) MTBE peak present. See documentation in Appendix C of Alisto report 10-060-07-001.
- (f) Well inaccessible.
- (g) Travel blank.
- (h) MTBE by 8020/8260
- (i) Gasoline does not include MTBE.

# Analytical Appendix





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

November 15, 2000

Mr. MORGAN HARGRAVE  
BLAINE TECH SERVICES, INC.  
1680 ROGERS AVE.  
SAN JOSE, CA 95112

RE: Pace Project Number: 6046304  
Client Project ID: BP 11107

Dear Mr. HARGRAVE:

Enclosed are the analytical results for sample(s) received by the laboratory on November 2, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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: 11/15/00  
 PAGE: 1

BLAINE TECH SERVICES, INC.  
 1680 ROGERS AVE.  
 SAN JOSE, CA 95112

Pace Project Number: 6046304  
 Client Project ID: BP 11107

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

Solid results are reported on a wet weight basis

Pace Sample No:	603958505	Date Collected:	10/30/00	Matrix:	Water
Client Sample ID:	A	Date Received:	11/02/00		

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

Long Beach Lab

GAS BTEX by 8015, Water		Method: EPA 8015/8020 Modif			Prep Method: EPA 8015/8020 Modif		
Gasoline	ND	ug/l	50	11/03/00	RV		
Benzene	ND	ug/l	0.5	11/03/00	RV	71-43-2	
Toluene	ND	ug/l	0.5	11/03/00	RV	108-88-3	
Ethylbenzene	ND	ug/l	0.5	11/03/00	RV	100-41-4	
Methyl-tert-butyl Ether	ND	ug/l	0.5	11/03/00	RV	1634-04-4	
Xylene (Total)	1.1	ug/l	0.5	11/03/00	RV	1330-20-7	
a,a,a-Trifluorotoluene (S)	108	%		11/03/00	RV	2164-17-2	

## REPORT OF LABORATORY ANALYSIS

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**Pace Analytical Services, Inc.**  
 3970 Gilman Street  
 Long Beach, CA 90815  
 Phone: 562.498.9515  
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DATE: 11/15/00  
 PAGE: 2

Pace Project Number: 6046304  
 Client Project ID: BP 11107

Pace Sample No: 603958513 Date Collected: 10/30/00 Matrix: Water  
 Client Sample ID: B Date Received: 11/02/00

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

Long Beach Lab

GAS BTEX by 8015, Water		Method: EPA 8015/8020 Modif		Prep Method: EPA 8015/8020 Modif	
Gasoline	73	ug/l	50	11/03/00	RV
Benzene	ND	ug/l	0.5	11/03/00	RV 71-43-2
Toluene	ND	ug/l	0.5	11/03/00	RV 108-88-3
Ethylbenzene	ND	ug/l	0.5	11/03/00	RV 100-41-4
Methyl-tert-butyl Ether	210	ug/l	0.5	11/03/00	RV 1634-04-4
Xylene (Total)	ND	ug/l	0.5	11/03/00	RV 1330-20-7
a,a,a-Trifluorotoluene (S)	111	%		11/03/00	RV 2164-17-2

GC/MS VOCs by 8260		Method: EPA 8260		Prep Method: EPA 8260	
1,2-Dichloroethane	ND	ug/l	5	11/08/00	RG 107-06-2
1,2-Dibromoethane	ND	ug/l	5	11/08/00	RG 106-93-4
Methyl-tert-butyl Ether	160	ug/l	5	11/08/00	RG 1634-04-4
tert-butyl Alcohol(TBA)	ND	ug/l	50	11/08/00	RG 75-65-0
Diisopropyl ether (DIPE)	ND	ug/l	5	11/08/00	RG 108-20-3
Ethyl-tert-butyl ether(ETBE)	ND	ug/l	5	11/08/00	RG 637-92-3
tert-Amyl Methyl ether(TAME)	ND	ug/l	5	11/08/00	RG 994-05-8
Dibromofluoromethane (S)	101	%		11/08/00	RG 1868-53-7
Toluene-d8 (S)	100	%		11/08/00	RG 2037-26-5
4-Bromofluorobenzene (S)	106	%		11/08/00	RG 460-00-4

## REPORT OF LABORATORY ANALYSIS

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 Long Beach, CA 90815  
 Phone: 562.498.9515  
 Fax: 562.597.0786

DATE: 11/15/00  
 PAGE: 3

Pace Project Number: 6046304  
 Client Project ID: BP 11107

Pace Sample No: 603958521 Date Collected: 10/30/00 Matrix: Water  
 Client Sample ID: C Date Received: 11/02/00

Parameters Results Units PRL Analyzed Analyst CAS# Footnotes

Long Beach Lab

GAS BTEX by 8015. Water		Method: EPA 8015/8020 Modif			Prep Method: EPA 8015/8020 Modif		
Gasoline	120	ug/l	50	11/03/00	RV		
Benzene	ND	ug/l	0.5	11/03/00	RV	71-43-2	
Toluene	ND	ug/l	0.5	11/03/00	RV	108-88-3	
Ethylbenzene	ND	ug/l	0.5	11/03/00	RV	100-41-4	
Methyl-tert-butyl Ether	380	ug/l	0.5	11/03/00	RV	1634-04-4	
Xylene (Total)	ND	ug/l	0.5	11/03/00	RV	1330-20-7	
a,a,a-Trifluorotoluene (S)	96	%		11/03/00	RV	2164-17-2	

GC/MS VOCs by 8260		Method: EPA 8260			Prep Method: EPA 8260		
Methyl-tert-butyl Ether	260	ug/l	10	11/08/00	RG	1634-04-4	
tert-butyl Alcohol (TBA)	ND	ug/l	100	11/08/00	RG	75-65-0	
Diisopropyl ether (DIPE)	ND	ug/l	10	11/08/00	RG	108-20-3	
Ethyl tert-butyl ether (ETBE)	ND	ug/l	10	11/08/00	RG	637-92-3	
tert-Amyl Methyl ether (TAME)	ND	ug/l	10	11/08/00	RG	994-05-8	
Dibromofluoromethane (S)	98	%		11/08/00	RG	1868-53-7	
Toluene-d8 (S)	101	%		11/08/00	RG	2037-26-5	
4-Bromofluorobenzene (S)	105	%		11/08/00	RG	460-00-4	

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DATE: 11/15/00  
 PAGE: 4

Pace Project Number: 6046304  
 Client Project ID: BP 11107

Pace Sample No: 603958539 Date Collected: 10/30/00 Matrix: Water  
 Client Sample ID: D Date Received: 11/02/00

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

Long Beach Lab

GAS BTEX by 8015, Water		Method: EPA 8015/8020 Modif		Prep Method: EPA 8015/8020 Modif	
Gasoline	140	ug/l	50	11/03/00	RV
Benzene	ND	ug/l	0.5	11/03/00	RV 71-43-2
Toluene	0.70	ug/l	0.5	11/03/00	RV 108-88-3
Ethylbenzene	ND	ug/l	0.5	11/03/00	RV 100-41-4
Methyl-tert-butyl Ether	360	ug/l	0.5	11/03/00	RV 1634-04-4
Xylene (Total)	1.1	ug/l	0.5	11/03/00	RV 1330-20-7
a,a,a-Trifluorotoluene (S)	126	%		11/03/00	RV 2164-17-2

GC/MS VOCs by 8260		Method: EPA 8260		Prep Method: EPA 8260	
Methyl-tert-butyl Ether	260	ug/l	10	11/08/00	RG 1634-04-4
tert-butyl Alcohol (TBA)	ND	ug/l	100	11/08/00	RG 75-65-0
Diisopropyl ether (DIPE)	ND	ug/l	10	11/08/00	RG 108-20-3
Ethyl-tert-butyl ether (ETBE)	ND	ug/l	10	11/08/00	RG 637-92-3
tert-Amyl Methyl ether (TAME)	ND	ug/l	10	11/08/00	RG 994-05-8
Dibromofluoromethane (S)	98	%		11/08/00	RG 1868-53-7
Toluene-d8 (S)	100	%		11/08/00	RG 2037-26-5
4-Bromofluorobenzene (S)	105	%		11/08/00	RG 460-00-4

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DATE: 11/15/00  
PAGE: 5

Pace Project Number: 6046304  
Client Project ID: BP 11107

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PARAMETER FOOTNOTES

ND Not Detected  
NC Not Calculable  
PRI Pace Reporting Limit  
(S) Surrogate

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QUALITY CONTROL DATA

DATE: 11/15/00  
PAGE: 6

BLAINE TECH SERVICES, INC.  
1680 ROGERS AVE.  
SAN JOSE, CA 95112

Pace Project Number: 6046304  
Client Project ID: BP 11107

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

QC Batch ID: 94027                      QC Batch Method: EPA 8015/8020 Modif  
Analysis Method: EPA 8015/8020 Modif      Analysis Description: GAS BTEX by 8015, Water  
Associated Pace Samples:              603958505      603958513      603958521      603958539

METHOD BLANK: 603961178  
Associated Pace Samples:

Parameter	Units	603958505      603958513      603958521      603958539		
		Method Blank Result	PRL	Footnotes
Gasoline	ug/l	ND	50	
Benzene	ug/l	ND	0.5	
Toluene	ug/l	ND	0.5	
Ethylbenzene	ug/l	ND	0.5	
Methyl-tert-butyl Ether	ug/l	ND	0.5	
Xylene (Total)	ug/l	ND	0.5	
a,a,a-Trifluorotoluene (S)	%	117		

LABORATORY CONTROL SAMPLE: 603961186

Parameter	Units	Spike      LCS      Spike		
		Conc.	Result	% Rec
Gasoline	ug/l	600	701.0	117
Benzene	ug/l	6.667	6.680	100
Toluene	ug/l	6.667	6.900	104
Ethylbenzene	ug/l	6.667	7.170	108
Methyl-tert-butyl Ether	ug/l	6.667	7.880	118
Xylene (Total)	ug/l	20	20.00	100
a,a,a-Trifluorotoluene (S)				101

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QUALITY CONTROL DATA

DATE: 11/15/00  
 PAGE: 7

BLAINE TECH SERVICES, INC.  
 1680 ROGERS AVE.  
 SAN JOSE, CA 95112

Pace Project Number: 6046304  
 Client Project ID: BP 11107

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

QC Batch ID: 94515  
 Analysis Method: EPA 8260  
 Associated Pace Samples: 603958513 603958521 603958539

QC Batch Method: EPA 8260  
 Analysis Description: GC/MS VOCs by 8260

METHOD BLANK: 603980772  
 Associated Pace Samples:

Parameter	Units	Method Blank		Footnotes
		Result	PRL	
1,2-Dichloroethane	ug/l	ND	1	
1,2-Dibromoethane	ug/l	ND	1	
Methyl-tert-butyl Ether	ug/l	ND	1	
tert-butyl Alcohol(TBA)	ug/l	ND	10	
Diisopropyl ether (DIPE)	ug/l	ND	1	
Ethyl-tert-butyl ether(ETBE)	ug/l	ND	1	
tert-Amyl Methyl ether(TAME)	ug/l	ND	1	
Dibromofluoromethane (S)	%	100		
Toluene-d8 (S)	%	100		
4-Bromofluorobenzene (S)	%	106		

Parameter	Units	LABORATORY CONTROL SAMPLE & LCSD: 603980780 603980798		Spike		Footnotes
		Spike Conc.	LCS Result	Spike % Rec	LCSD Result	
Dibromofluoromethane (S)				104	104	
Toluene-d8 (S)				101	98	
4-Bromofluorobenzene (S)				94	95	

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Long Beach, CA 90815  
Phone: 562.498.9515  
Fax: 562.597.0786

DATE: 11/15/00  
PAGE: 8

Pace Project Number: 6046304  
Client Project ID: BP 11107

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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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CHAIN OF CUSTODY

17307 A

6046304

Page 1 of 1

CONSULTANT'S NAME: Blaine Tech Services, Inc. CONSULTANT'S ADDRESS: 1680 Rogers Ave., San Jose CA 95112

BP SITE NUMBER: 11107 BP SITE / FACILITY ADDRESS: 18501 Hesperian, San Lorenzo

CONSULTANT PROJECT NUMBER: 601030-X2

CONSULTANT PROJECT MANAGER: Morgan Hargrave PHONE NUMBER: (408) 573-0555 x 218 FAX NUMBER: (408) 573-7771

BP CONTACT: Scott Hooton BP ADDRESS: 295 SW 41st Street, Suite N, Renton WA PHONE NUMBER: (425) 251-0689

LAB CONTACT: Pace - Lily Bayati LABORATORY ADDRESS: 3970 Gilman Street, Long Beach, CA PHONE NUMBER: (562) 498-9515

BP CONTACT REQUESTING RUSH TAT (Print BP Contact Name): RUSH REQUESTED OF (Print Consultant Contact Name): DATE/TIME: SHIPMENT DATE: SHIPMENT METHOD:

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-C + BTEX / MTBE (8015M)	TPH-D (8015M)	FUEL OXYGENATES (8260)	1,2 DCA + EDB (8010)									COMMENTS	
				NO.	TYPE (VOL.)	LAB SAMPLE #														
A	10/30/00	1353	Water	3	WAT VIALS	HCL	X													
B	↓	1417	↓	9	↓	↓	X		X	X										
C	↓	1447	↓	6	↓	↓	X		X											
D	↓	1517	↓	6	↓	↓	X		X											

SAMPLED BY (Please Print Name): HOYT RYALES

SAMPLED BY (Signature): [Signature]

ADDITIONAL COMMENTS: 1.0 C

RELINQUISHED BY / AFFILIATION (Print Name / Signature)	DATE	TIME	ACCEPTED BY / AFFILIATION (Print Name / Signature)	DATE	TIME
Hoyt Ryales / [Signature]	10/31/00	1400	[Signature] STEVENSON	11/2/00	1400

# **Field Data Sheets**

WELL GAUGING DATA

Project # 001030-K2 Date 10/30/00 Client BP

Site 18501 Hesperian Blvd San Lorenzo CA

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 <u>TOC</u>
MW-1	2					17.96	30.44	
MW-2	2					17.12	24.79	
MW-3	2					17.29	24.90	
MW-4	2	B				16.35	24.99	
MW-5	2	D				16.23	22.35	
MW-6	2	C				16.83	24.75	
MW-7	2	A				16.35	24.29	✓

## BP WELL MONITORING DATA SHEET

Project #: 001030-X1	Station # 11107
Sampler: HOYT	Date: 10/30/00
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8
Total Well Depth: 24.99	Depth to Water: 16.35
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC 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: \_\_\_\_\_

1.3	x	3	=	4.1	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1407	70.3	6.74	871	1.5	
1411	69.4	6.75	870	3	
1413	69.2	6.76	871	4.5	

Did well dewater? Yes  No

Gallons actually evacuated: 4.5

Sampling Time: 1417      Sampling Date: 10/30/00

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

Analyzed for: TPH-G BIEX MIBE TPIL-D Other: 1,2 DCA & EOB by 8010  
Oxygenates by 8260

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

9 VOA'S

## BP WELL MONITORING DATA SHEET

Project #: <u>001030-X2</u>	Station # <u>11107</u>
Sampler: <u>HOYT</u>	Date: <u>10/30/00</u>
Well I.D.: <u>MW-45</u>	Well Diameter: 2 3 4 6 8 <u>    </u>
Total Well Depth: <u>22.35</u>	Depth to Water: <u>16.23</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC 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: \_\_\_\_\_

<u>0.9</u>	X	<u>3</u>	=	<u>2.9</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
<u>1507</u>	<u>67.5</u>	<u>671</u>	<u>692</u>	<u>1</u>	
<u>1510</u>	<u>68.0</u>	<u>670</u>	<u>709</u>	<u>2</u>	
<u>1513</u>	<u>68.7</u>	<u>674</u>	<u>738</u>	<u>3</u>	

Did well dewater? Yes  No  Gallons actually evacuated: 3

Sampling Time: 1517 Sampling Date: 10/30/00

Sample I.D. (Blind): 0 Laboratory: Pace Other: \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other: Oxygenates by 8260

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

6 VOA'S

### BP WELL MONITORING DATA SHEET

Project #: <u>001030-X2</u>	Station #: <u>11107</u>
Sampler: <u>ADVT</u>	Date: <u>10/30/00</u>
Well I.D.: <u>MW-6</u>	Well Diameter: <u>2</u> 3 4 6 8 _____
Total Well Depth: <u>24.75</u>	Depth to Water: <u>15.83</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"	0.01	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

<u>1.4</u>	X	<u>3</u>	=	<u>4.2</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
<u>1437</u>	<u>68.0</u>	<u>682</u>	<u>880</u>	<u>1.5</u>	
<u>1441</u>	<u>68.1</u>	<u>681</u>	<u>869</u>	<u>3</u>	
<u>1443</u>	<u>67.8</u>	<u>685</u>	<u>872</u>	<u>4.5</u>	

Did well dewater? Yes  No       Gallons actually evacuated: 4.5

Sampling Time: 1447      Sampling Date: 10/30/00

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

Analyzed for: TPH-G BTEX MIBE TPH-D      Other: Oxygenates by 8260

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>001030-XZ</u>	Station # <u>11107</u>
Sampler: <u>HOYT</u>	Date: <u>10/30/00</u>
Well I.D.: <u>MW-7</u>	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: <u>24.29</u>	Depth to Water: <u>16.35</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"	0.01	4"	0.65
2"	0.16	6"	1.17
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: \_\_\_\_\_

<u>1.2</u>	x	<u>3</u>	=	<u>3.8</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
<u>1343</u>	<u>71.1</u>	<u>6.77</u>	<u>834</u>	<u>1.5</u>	
<u>1347</u>	<u>69.8</u>	<u>6.72</u>	<u>837</u>	<u>3</u>	
<u>1349</u>	<u>69.8</u>	<u>6.72</u>	<u>838</u>	<u>4</u>	

Did well dewater? Yes  No Gallons actually evacuated: 4

Sampling Time: 1353 Sampling Date: 10/30/00

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

Analyzed for TPH-G BTEX MUBE 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

3 VOA'S