



Scott T. Hooton
Portfolio Manager

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

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May 15, 2001

Mr. Don Hwang
Alameda County Health Care Services
Agency
1131 Harbor Bay Parkway, Room 250
Alameda, CA 94502-6577

MAY 22 2001

RE: Former BP Oil Site No. 11102
100 McArthur Boulevard
Oakland, CA

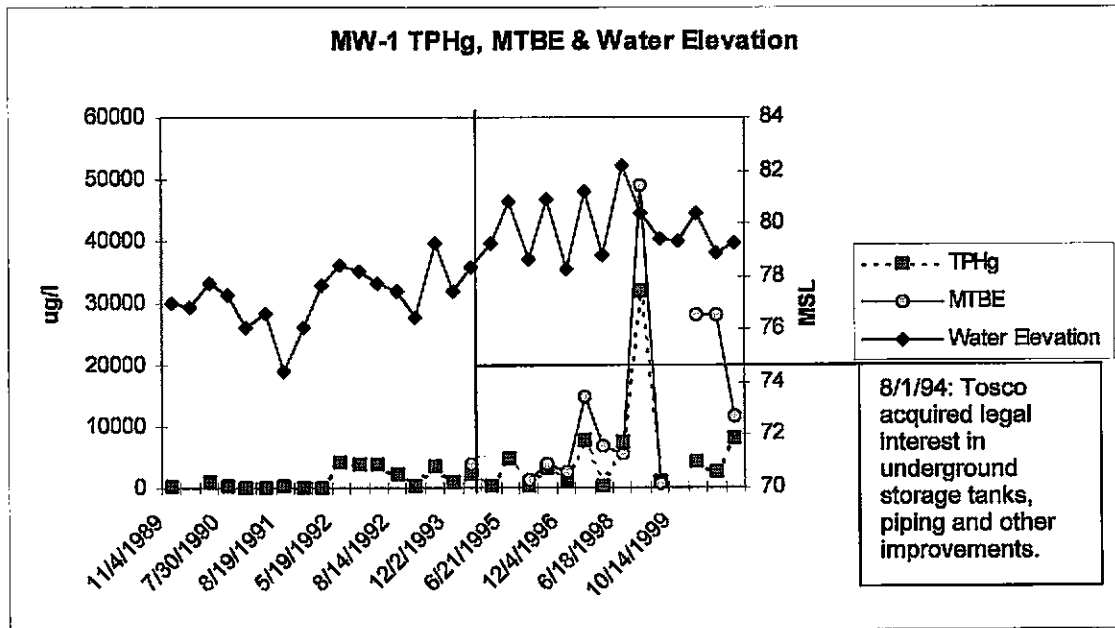
Direct: 425/251-0669
Call: 206/336-0669
hootonst@bp.com
www.bp.com

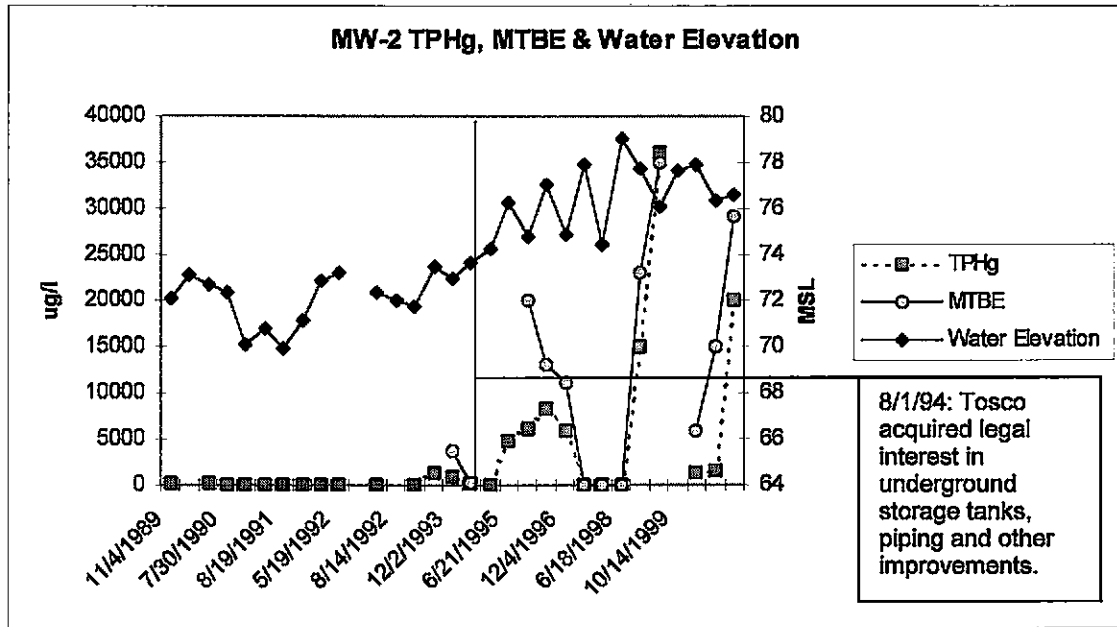
Dear Mr. Hwang:

This transmits the 11 April 2001 *First Quarter 2001 Groundwater Monitoring* report prepared by Blaine Tech Services on behalf of BP. The report summarizes chemical data obtained since 1989, including results for samples recently obtained on 8 March 2000.

The report shows that aromatic hydrocarbons were detected in one of the three wells sampled on 8 March 2000. MTBE was also detected in samples obtained from all of the monitoring wells sampled on 8 March 2000, with the highest concentrations associated with wells MW-1 (11,600 µg/l) and MW-2 (29,100 µg/l). Samples collected previously from well MW-1 on 28 September 2000 showed higher concentrations (28,800 µg/l). Samples collected previously from well MW-2 on 28 September 2000 showed lower concentrations (15,000 µg/l).

MTBE, TPHg and water elevation data for these wells is shown on the following graphs.

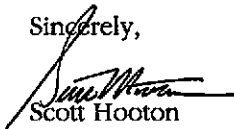




Alameda County Health Care Services notes that additional actions will be required if these monitoring results are consistent with data from the proceeding quarter. These actions include increasing the frequency of sampling, the installation of additional monitoring wells, and the preparation of a Corrective Action Plan. To the extent that these requirements arise from increasing concentrations documented during Tosco's operations, BP will look to Tosco to perform the required corrective action.

Please give me a call at (425) 251-0689 if you have any questions or comments.

Sincerely,


 Scott Hooton

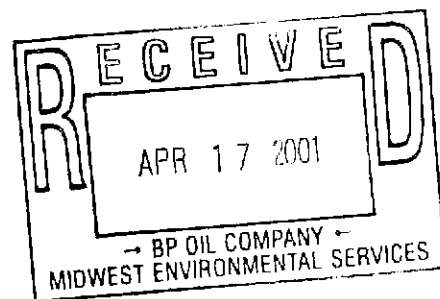
Attachment

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

BLAINE
TECH SERVICES, INC.



1680 ROGERS AVENUE
SAN JOSE, CA 95112-1105
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(408) 573-0555 PHONE
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April 11, 2001

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

1st Quarter 2001 Monitoring at 11102

First Quarter 2001 Groundwater Monitoring
BP Service Station Number 11102
100 MacArthur Blvd.
Oakland, CA

Monitoring Performed on March 8, 2001

Groundwater Sampling Report 010308-A-3

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.

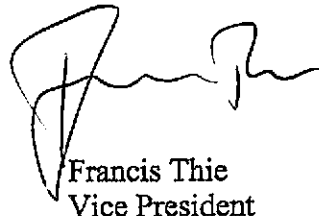
Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL DATA AND ANALYTICAL RESULTS**. The full analytical report for the most recent samples is located in the **Analytical Appendix**. The **Professional Engineering Appendix**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

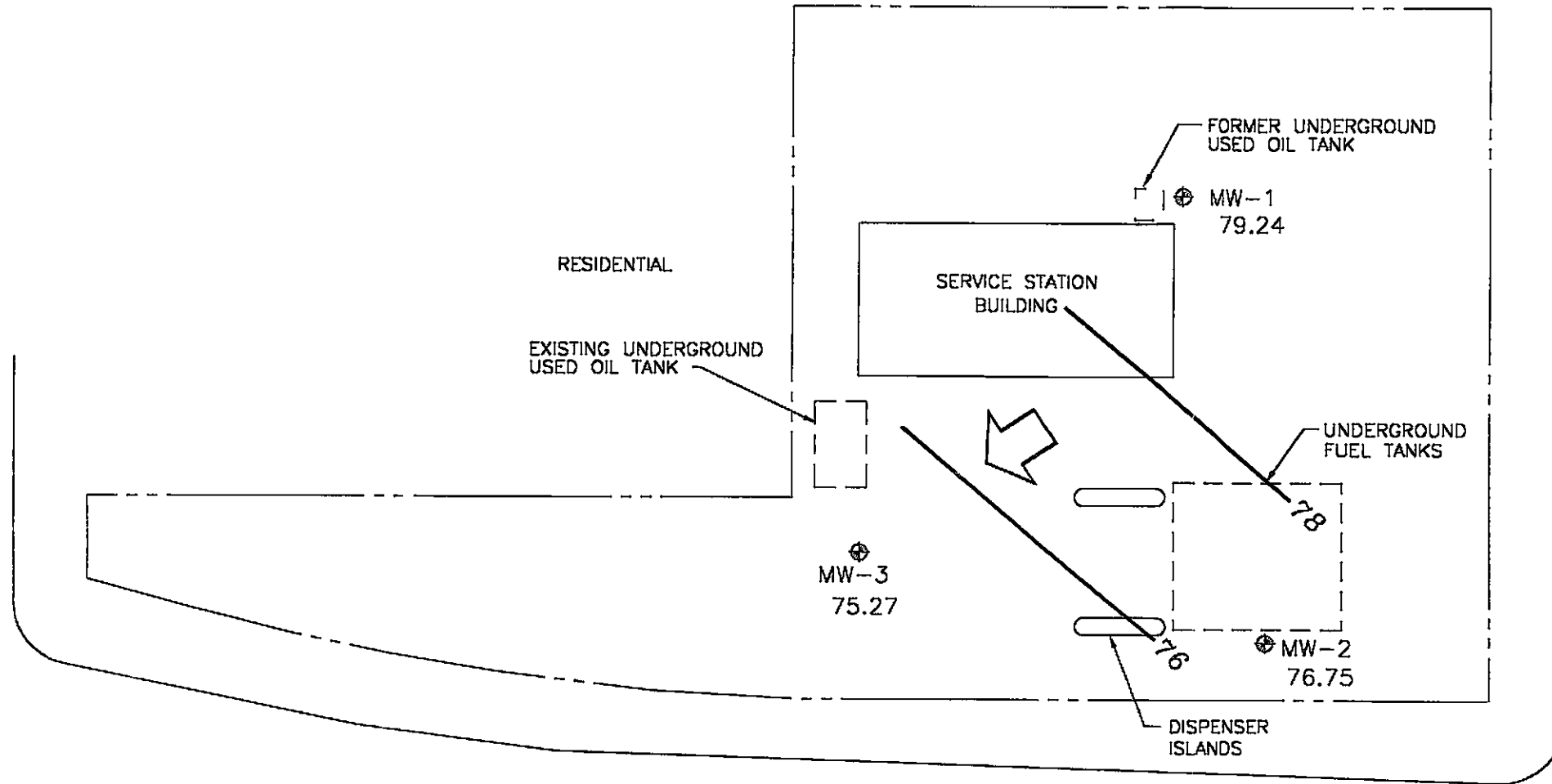
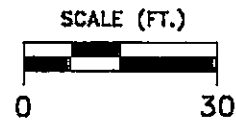


Francis Thie
Vice President

FPT/ks

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

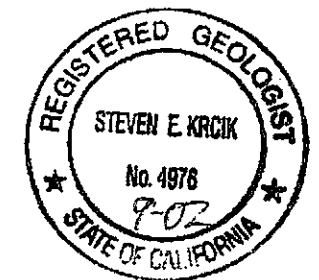
Professional Engineering Appendix



- EXPLANATION**
- GROUNDWATER MONITORING WELL
 - 79.24 GROUNDWATER ELEVATION (FT, MSL)
 - 78 — GROUNDWATER ELEVATION CONTOUR (FT, MSL)
 - APPROXIMATE GROUNDWATER FLOW DIRECTION;
APPROXIMATE GRADIENT = 0.04

OAKLAND AVENUE

MACARTHUR BOULEVARD



PREPARED BY



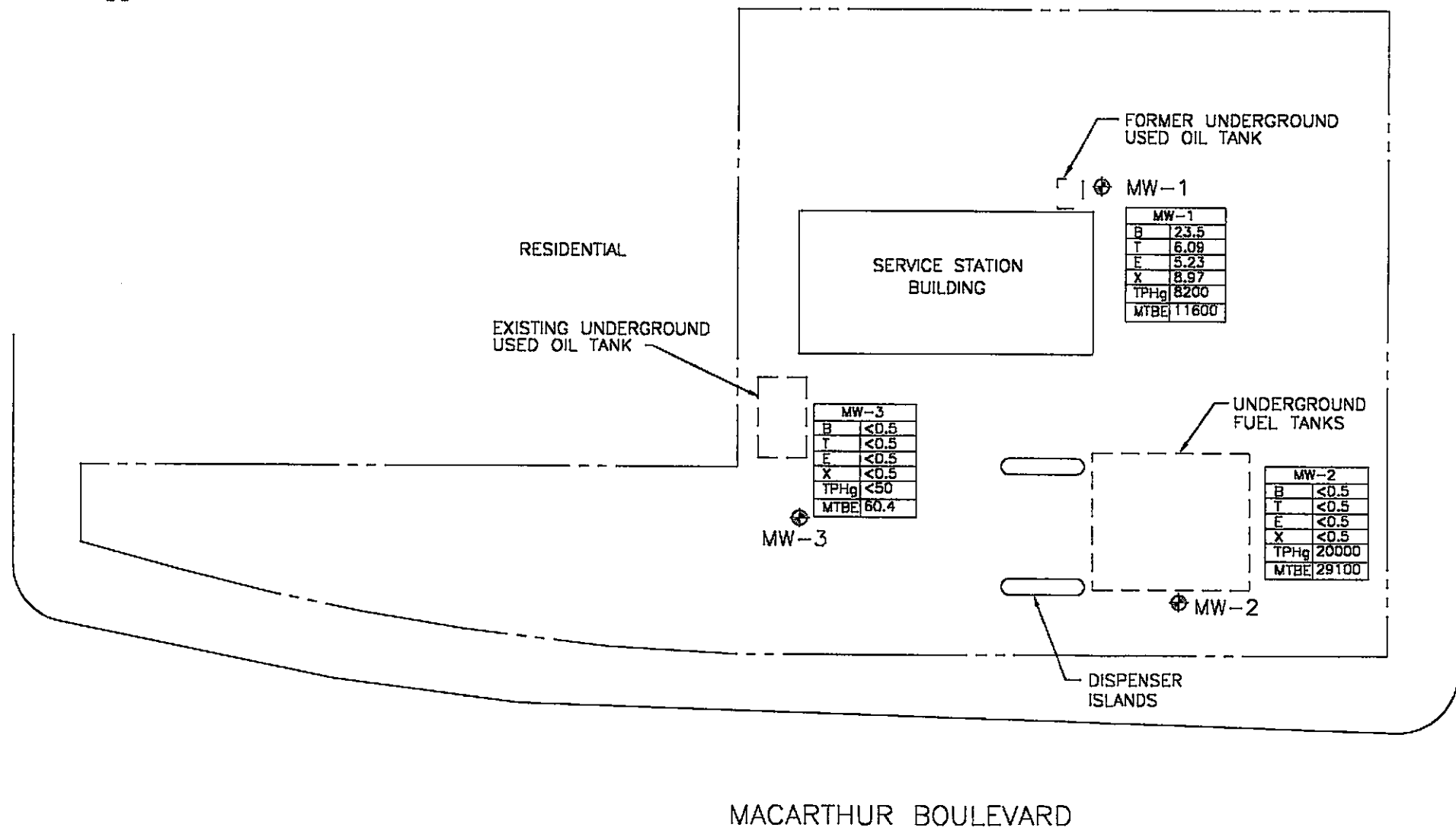
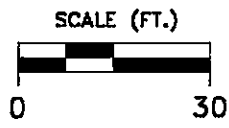
RRM
engineering contracting firm

GROUNDWATER ELEVATION CONTOUR MAP,
MARCH 8, 2001

BP Oil Service Station No. 11102
100 MacArthur Boulevard
Oakland, California

FIGURE:
1

PROJECT:
DAC04



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 EPA 8260

MW-1	
B	23.5
T	6.09
E	5.23
X	8.97
TPHg	8200
MTBE	11600

MW-3	
B	<0.5
T	<0.5
E	<0.5
X	<0.5
TPHg	<50
MTBE	60.4

MW-2	
B	<0.5
T	<0.5
E	<0.5
X	<0.5
TPHg	20000
MTBE	29100

Ref. 111021ex.dwg
 Basemap from Allsta Engineering Group

PREPARED BY

engineering contracting firm

HYDROCARBON CONCENTRATION MAP,
 MARCH 8, 2001

BP Oil Service Station No. 11102
 100 MacArthur Boulevard
 Oakland, California

FIGURE:
2
 PROJECT:
 DAC04

Table of Well Data and Analytical Results

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER RESULTS

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-DCA (ug/l)	1,2-DCA (ug/l)	HVOC's (ug/l)	DO (ppm)	LAB	
MW-1	11/04/89	90.20	13.21	76.99	ND<500	ND<50	3.4	0.6	ND<0.3	ND<0.3	---	ND<5000	---	0.9	---	---	SAL	
MW-1	11/11/89	90.20	13.32	76.88	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-1	04/03/90	90.20	12.46	77.74	820	---	64	1.9	23	34	---	---	---	---	---	---	ANA	
MW-1	07/30/90	90.20	12.92	77.28	190	ND<50	11	ND<5.0	ND<5.0	ND<5.0	---	ND<5000	---	ND	---	---	ANA	
MW-1	11/20/90	90.20	14.08	76.12	50	79	2.4	ND<0.3	ND<0.3	ND<0.3	---	ND<5000	---	4.0	---	---	SAL	
MW-1	03/01/91	90.20	13.61	76.59	ND<100	ND<100	0.9	ND<0.3	ND<0.3	0.3	---	14000	---	ND	---	---	SAL	
MW-1	08/19/91	90.20	15.74	74.46	370	ND<50	35	0.73	6.4	5.6	---	ND<5000	---	1.4	---	---	SEQ	
MW-1	11/13/91	90.20	14.08	76.12	60	ND<50	0.68	ND<0.3	ND<0.3	ND<0.3	---	ND<5000	---	1.0	---	---	SEQ	
MW-1	02/24/92	90.20	12.52	77.68	140	100	3.9	0.66	1.2	3.8	---	ND<5000	---	1.7	---	---	SEQ	
MW-1	05/19/92	90.20	11.8	78.40	4200	910	440	21	250	37	---	ND<5000	---	ND	---	---	SEQ	
MW-1	06/17/92	90.20	12.01	78.19	4000	560	350	14	150	17	---	ND<5000	---	ND	---	---	SEQ	
MW-1	07/22/92	90.20	12.42	77.78	4000	---	ND<5.0	19	210	61	---	---	---	---	---	---	ANA	
MW-1	08/14/92	90.20	12.75	77.45	2400	1700	330	20	150	47	---	ND<5000	---	ND<2.5	---	---	SEQ	
MW-1	11/11/92	90.20	13.69	76.51	260	92	30	3.4	7.6	6.8	---	ND<5000	---	ND<2.5	---	---	ANA	
MW-1	06/07/93	90.20	10.93	79.27	3400	440	98	11	21	7.6	---	---	6.2	0.9	---	---	PACE	
QC-1 (c)	06/07/93	---	---	---	3700	---	120	12	26	9.5	---	---	---	---	---	---	PACE	
MW-1	12/02/93	90.20	12.72	77.48	1100	120	8.3	3.6	0.6	1.5	---	ND<5000	2.6	1.8	---	---	PACE	
MW-1	06/22/94	90.20	11.81	78.39	2100	ND<50	32	3.8	2.2	17	4000	(d) ND<5000	2.3	3.3	---	3.2	PACE	
QC-1 (c)	06/22/94	---	---	---	2100	---	30	3.2	2.0	15	2000	(d) ---	---	---	---	---	PACE	
MW-1	01/10/95	90.20	10.97	79.23	ND<500	420	120	ND<5	ND<5	ND<10	---	---	ND<1	1	---	3.9	ATI	
QC-1 (c)	01/10/95	---	---	---	ND<500	---	120	ND<5	5	ND<10	---	---	---	---	---	---	ATI	
MW-1	06/21/95	90.20	9.38	80.82	4700	1300	16	ND<5.0	ND<5.0	ND<10	---	2900	2.0	0.38	0.6	(e)	6.7	ATI
QC-1 (c)	06/21/95	---	---	---	3600	---	ND<13	ND<5.0	ND<5.0	ND<10	---	---	---	---	---	---	ATI	
MW-1	12/27/95	90.20	11.55	78.65	430	2100	ND<2.5	ND<2.5	ND<2.5	ND<5.0	1200	640	0.67	ND<0.20	---	6.3	ATI	
MW-1	06/13/96	90.20	9.28	80.92	3200	920	51	ND<12	ND<12	ND<12	4000	2000	---	---	---	6.3	SPL	
MW-1	12/04/96	90.20	11.91	78.29	1400	280	6.2	ND<5	ND<5	ND<5	2600	2000	ND<5.0	ND<5.0	6.0	(f)	6.7	SPL
MW-1	06/10/97	90.20	8.97	81.23	7900	1700	12	ND<10	ND<10	ND<10	15000	ND<5	ND<250	ND<250	ND	6.0	SPL	
QC-1 (c)	06/10/97	---	---	---	7700	---	14	ND<25	ND<25	ND<25	13000	---	---	---	---	---	SPL	
MW-1	12/12/97	90.20	11.37	78.83	440	760	8.8	ND<1.0	2.6	9.4	6700	1200	ND<1.0	ND<1.0	ND	5.5	SPL	
MW-1	06/18/98	90.20	8.02	82.18	7500	2900	ND<2.5	ND<5.0	ND<5.0	ND<5.0	5600	ND<5	ND<5.0	ND<5.0	ND	4.9	SPL	
MW-1	03/09/99	90.20	9.80	80.40	32000	---	100	16	72	110	49000	---	---	---	---	---	SPL	
MW-1	09/28/99	90.20	10.78	79.42	1000	---	ND<5.0	ND<5.0	ND<5.0	ND<5.0	730	---	ND<1.0	ND<1.0	ND<1.0	---	SPL	
MW-1	10/14/99	90.20	10.84	79.36	---	660	---	---	---	---	---	---	---	---	---	---	SPL	
MW-1	03/27/00	90.20	9.83	80.37	4300	---	160	19	37	43	28000	---	---	ND<500	---	---	PAGE	
MW-1	09/28/00	90.20	11.33	78.87	2700	---	10	2.6	1.1	2.7	28000	---	---	---	---	---	PAGE	
MW-1	03/08/01	90.20	10.96	79.24	8200	---	23.5	6.09	5.23	8.97	11600	---	---	---	---	---	PAGE	

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER RESULTS

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-DCA (ug/l)	1,2-DCA (ug/l)	HVOC's (ug/l)	DO (ppm)	LAB
MW-2	11/04/89	87.91	15.84	72.07	ND<500	---	6.5	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	---	---	SAL
MW-2	11/11/89	87.91	14.75	73.16	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	04/03/90	87.91	15.25	72.66	ND<500	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	ANA
MW-2	07/30/90	87.91	15.59	72.32	61	---	6.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	ANA
MW-2	11/20/90	87.91	17.81	70.10	ND<50	---	0.3	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	---	---	SAL
MW-2	03/01/91	87.91	17.11	70.80	ND<100	---	0.4	ND<0.3	ND<0.3	ND<0.3	---	---	---	4.0	---	---	SAL
MW-2	08/19/91	87.91	17.97	69.94	ND<30	---	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	---	---	SEQ
MW-2	11/13/91	87.91	16.76	71.15	38	---	0.32	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	---	---	SEQ
MW-2	02/24/92	87.91	15.07	72.84	ND<50	---	ND<0.5	ND<0.5	ND<0.5	0.58	---	---	---	16	---	---	SEQ
MW-2	05/19/92	87.91	14.7	73.21	ND<50	---	0.55	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	SEQ
MW-2	07/22/92	87.91	15.6	72.31	90	---	1.3	0.6	0.9	1.9	---	---	---	---	---	---	ANA
MW-2	08/14/92	87.91	15.88	72.03	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	11/11/92	87.91	16.19	71.72	52	---	2.8	ND<0.5	ND<0.5	0.9	---	---	---	---	---	---	ANA
QC-1 (c)	11/11/92	---	---	---	65	---	3.2	ND<0.5	ND<0.5	1.0	---	---	---	---	---	---	ANA
MW-2	06/07/93	87.91	14.42	73.49	1200	---	14	2.8	1.9	1.7	---	---	---	---	---	---	PACE
MW-2	12/02/93	87.91	14.94	72.97	790	---	3.4	0.5	10	ND<0.5	3700 (d)	---	---	---	---	---	PACE
QC-1 (c)	12/02/93	---	---	---	2100	---	32	3.8	2.2	17	3700 (d)	---	2.3	---	---	---	PACE
MW-2	06/22/94	87.91	14.25	73.66	110	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	120 (d)	---	---	---	---	3.9	PACE
MW-2	01/10/95	87.91	13.64	74.27	ND<50	---	ND<0.5	ND<0.5	0.6	1	---	---	---	---	---	4.3	ATI
MW-2	06/21/95	87.91	11.66	76.25	4700	---	ND<10	ND<10	ND<10	ND<20	---	---	---	---	---	7.8	ATI
MW-2	12/27/95	87.91	13.11	74.80	6100	---	ND<25	ND<25	ND<25	ND<50	20000	---	---	---	---	6.7	ATI
QC-1 (c)	12/27/95	---	---	---	6300	---	ND<25	ND<25	ND<25	ND<50	19000	---	---	---	---	---	ATI
MW-2	06/13/96	87.91	10.86	77.05	8300	---	ND<2.5	ND<2.5	ND<2.5	ND<2.5	13000	---	---	---	---	6.5	SPL
QC-1 (c)	06/13/96	---	---	---	8700	---	ND<5	ND<5	ND<5	ND<5	13000	---	---	---	---	---	SPL
MW-2	12/04/96	87.91	13.03	74.88	5900	---	ND<2.5	ND<5	ND<5	ND<5	11000	---	---	---	---	6.3	SPL
QC-1 (c)	12/04/96	---	---	---	5900	---	ND<2.5	ND<5	ND<5	ND<5	11000	---	---	---	---	---	SPL
MW-2	06/10/97	87.91	10.04	77.87	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	---	5.8	SPL
MW-2	12/12/97	87.91	12.44	75.47	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	---	5.7	SPL
MW-2	06/18/98	87.91	8.89	79.02	50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	---	5.3	SPL
QC-1 (c)	06/18/98	---	---	---	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	---	---	SPL
MW-2	03/09/99	87.91	10.20	77.71	15000	---	ND<5.0	ND<5.0	ND<5.0	ND<5.0	23000	---	---	---	---	---	SPL
MW-2	09/28/99	87.91	11.81	76.10	36000	---	ND<5.0	12	7.0	26	35000	---	ND<5.0	7.7	ND<5.0	---	SPL
MW-2	10/14/99	87.91	10.27	77.64	---	100	---	---	---	---	---	---	---	---	---	---	SPL
MW-2	03/27/00	87.91	9.98	77.93	1300	---	ND<0.5	ND<0.5	0.51	ND<0.5	5800	---	---	ND<100	---	---	PACE
MW-2	09/28/00	87.91	11.40	76.51	1600	---	1.8	1.7	0.54	2.2	15000	---	---	---	---	---	PACE
MW-2	03/08/01	87.91	11.16	76.75	20000	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	29100	---	---	---	---	---	PACE

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER RESULTS

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-DCA (ug/l)	1,2-DCA (ug/l)	HVOC's (ug/l)	DO (ppm)	LAB
MW-3	11/04/89	87.02	15.4	71.62	ND<500	---	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	---	---	SAL
MW-3	11/11/89	87.02	14.1	72.92	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	04/03/90	87.02	13.90	73.12	ND<100	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	ANA
MW-3	07/30/90	87.02	13.77	73.25	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	ND<5000	---	---	---	---	ANA
MW-3	11/20/90	87.02	14.67	72.35	ND<50	---	0.3	0.8	0.4	1.5	---	---	---	---	---	---	SAL
MW-3	03/01/91	87.02	15.22	71.80	ND<100	---	0.4	ND<0.3	ND<0.3	ND<0.3	---	---	---	ND	---	---	SAL
MW-3	08/19/91	87.02	13.15	73.87	ND<30	---	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	---	---	SEQ
MW-3	11/13/91	87.02	15.66	71.36	ND<30	---	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	---	---	SEQ
MW-3	02/24/92	87.02	15.01	72.01	ND<50	---	0.65	1.4	0.66	4.4	---	---	---	ND	---	---	SEQ
MW-3	05/19/92	87.02	15.52	71.50	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	SEQ
MW-3	07/22/92	87.02	15.63	71.39	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	ND<5000	---	ND<0.50	---	---	ANA
MW-3	08/14/92	87.02	13.57	73.45	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	11/11/92	87.02	14.13	72.89	ND<50	---	ND<0.5	0.7	ND<0.5	1.3	---	---	---	---	---	---	ANA
MW-3	06/07/93	87.02	12.13	74.89	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	PACE
MW-3	12/02/93	87.02	13.29	73.73	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	PACE
MW-3	06/22/94	87.02	12.78	74.24	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	2.9 PACE
MW-3	01/10/95	87.02	12.01	75.01	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	---	1	---	---	3.8 ATI
MW-3	06/21/95	87.02	11.57	75.45	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	---	7.4 ATI
MW-3	12/27/95	87.02	13.47	73.55	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	5.7	---	---	---	---	---	7.3 ATI
MW-3	06/13/96	87.02	11.22	75.80	60	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<10	---	---	---	---	---	6.8 SPL
MW-3	12/04/96	87.02	13.28	73.74	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	---	---	---	---	6.7 SPL
MW-3	06/10/97	87.02	10.22	76.80	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	---	---	6.1 SPL
MW-3	12/12/97	87.02	12.61	74.41	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	---	---	5.6 SPL
QC-1 (c)	12/12/97	---	---	---	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	---	---	SPL
MW-3	06/18/98	87.02	9.07	77.95	50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	---	---	5.3 SPL
MW-3	06/18/98	87.02	12.80	74.22	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	09/28/99	87.02	13.76	73.26	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	03/27/00	87.02	13.77	73.25	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.6	---	---	---	---	---	PACE
MW-3	09/28/00	87.02	11.28	75.74	ND<50	---	ND<0.5	7.4	ND<0.5	1.3	2.0	---	---	---	---	---	PACE
MW-3	03/08/01	87.02	11.75	75.27	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	60.4	---	---	---	---	---	PACE

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER RESULTS

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-DCA (ug/l)	1,2-DCA (ug/l)	HVOC's (ug/l)	DO (ppm)	LAB
QC-2	(g) 11/11/92	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	ANA
QC-2	(g) 06/07/93	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	PACE
QC-2	(g) 12/02/93	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	PACE
QC-2	(g) 06/22/94	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	---	PACE
QC-2	(g) 01/10/95	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	---	---	---	---	ATI
QC-2	(g) 06/21/95	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	---	ATI
QC-2	(g) 12/27/95	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	---	---	---	---	ATI
QC-2	(g) 06/13/96	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<10	---	---	---	---	---	SPL

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER RESULTS

ADDITIONAL ANALYSES

Well ID	DATE OF SAMPLING/ MONITORING	MTBE (ug/l)	DIPE (ug/l)	ETBE (ug/l)	TAME (ug/l)	1,2-DBA (ug/l)
MW-1	03/27/00	26000	ND<500	ND<500	ND<500	ND<500
MW-2	03/27/00	6000	ND<100	ND<100	190	ND<100

ABBREVIATIONS:

TPH-G	Total petroleum hydrocarbons as gasoline	(a)	Top of casing elevations surveyed to the nearest 0.01 foot above mean sea level.
TPH-D	Total petroleum hydrocarbons as diesel	(b)	Groundwater elevations in feet above mean sea level.
B	Benzene	(c)	Blind duplicate.
T	Toluene	(d)	A copy of the documentation for this data is included in Appendix C of Alisto report 10-076-06-002.
E	Ethylbenzene	(e)	Tetrachloroethene.
X	Total xylenes	(f)	Trans-1,2-Dichloroethene
TOG	Total oil and grease	(g)	Travel blank.
1,1-DCA	1,1-Dichloroethane		
1,2-DCA	1,2-Dichloroethane		
1,2-DBA	1,2-Dibromoethane		
HVOC's	Halogenated volatile organic compounds		
MTBE	Methyl tert butyl ether		
DIPE	Di-Isopropyl Ether		
ETBE	Ethyl t-Butyl Ether		
TAME	t-Amyl Methyl Ether		
DO	Dissolved oxygen		
ug/l	Micrograms per liter		
ppm	Parts per million		
ND	Not detected above reported detection limit		
---	Not analyzed/measured/applicable		
SAL	Superior Analytical Laboratory		
ANA	Anamatrix, Inc.		
SEQ	Sequoia Analytical Laboratory		
PACE	Pace, Inc.		
ATI	Analytical Technologies, Inc.		
SPL	Southern Petroleum Laboratories		

Analytical Appendix



Pace Analytical Services, Inc.

900 Gemini Avenue
Houston, TX 77058

Phone: 281.488.1810

Fax: 281.488.4661

March 14, 2001

Mr. Aidan Metzger
Blaine Tech Services, Inc.
1680 Rogers Ave.
San Jose, CA 95112

RE: Lab Project Number: 8520251
Client Project ID: BP Site#11102

Dear Mr. Metzger:

Enclosed are the analytical results for sample(s) received by the laboratory on March 10, 2001. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paula Kirtley
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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Blaine Tech Services, Inc.
1680 Rogers Ave.
San Jose, CA 95112

Lab Project Number: 8520251
Client Project ID: BP Site#11102

Attn: Mr. Aidan Metzger
Phone:

Lab Sample No: 851681495 Project Sample Number: 8520251-001 Date Collected: 03/08/01 15:10
Client Sample ID: A (11102) Matrix: Water Date Received: 03/10/01 10:05

Parameters	Results	Units	PRL	Dilution	Analyzed	Analyst	CAS#	Ftnote	Limit
------------	---------	-------	-----	----------	----------	---------	------	--------	-------

GC Volatiles

GAS by Mod 8015, Water	Method: EPA 8015 Modified	Prep Method: EPA 8015 Modified
Gasoline Range Organics	20000 ug/l 2500	50.0 03/14/01 14:15 WRIC
1,4-Difluorobenzene (S)	116 %	1.0 03/14/01 14:15 WRIC
4-Bromofluorobenzene (S)	72 %	1.0 03/14/01 14:15 WRIC 460-00-4

SW8021 Aromatics, Water	Method: EPA 8021	Prep Method: See analytical meth
Benzene	ND ug/l 0.500	1.0 03/13/01 18:29 WRIC 71-43-2
Ethylbenzene	ND ug/l 0.500	1.0 03/13/01 18:29 WRIC 100-41-4
Toluene	ND ug/l 0.500	1.0 03/13/01 18:29 WRIC 108-88-3
Xylene (Total)	ND ug/l 0.500	1.0 03/13/01 18:29 WRIC 1330-20-7
Methyl-tert-butyl ether	29100 ug/l 50.0	100 03/13/01 18:29 WRIC 1634-04-4
1,4-Difluorobenzene (S)	1250 %	1.0 03/13/01 18:29 WRIC
4-Bromofluorobenzene (S)	88 %	1.0 03/13/01 18:29 WRIC 460-00-4

Date: 03/14/01

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8520251

Client Project ID: BP Site#11102

Lab Sample No: 851681496 Project Sample Number: 8520251-002 Date Collected: 03/08/01 14:40
Client Sample ID: B (11102) Matrix: Water Date Received: 03/10/01 10:05

Parameters	Results	Units	PRL	Dilution	Analyzed	Analyst	CAS#	Ftnote	Limit
------------	---------	-------	-----	----------	----------	---------	------	--------	-------

GC Volatiles

Parameters	Results	Units	PRL	Dilution	Analyzed	Analyst	CAS#	Ftnote	Limit
GAS by Mod 8015, Water Method: EPA 8015 Modified Prep Method: EPA 8015 Modified									
Gasoline Range Organics	ND	ug/l	50.	1.0	03/13/01 17:34	WRIC			
1,4-Difluorobenzene (S)	97	%		1.0	03/13/01 17:34	WRIC			
4-Bromofluorobenzene (S)	72	%		1.0	03/13/01 17:34	WRIC	460-00-4		
SW8021 Aromatics, Water Method: EPA 8021 Prep Method: See analytical meth									
Benzene	ND	ug/l	0.500	1.0	03/13/01 17:34	WRIC	71-43-2		
Ethylbenzene	ND	ug/l	0.500	1.0	03/13/01 17:34	WRIC	100-41-4		
Toluene	ND	ug/l	0.500	1.0	03/13/01 17:34	WRIC	108-88-3		
Xylene (Total)	ND	ug/l	0.500	1.0	03/13/01 17:34	WRIC	1330-20-7		
Methyl-tert-butyl ether	60.4	ug/l	0.500	1.0	03/13/01 17:34	WRIC	1634-04-4		
1,4-Difluorobenzene (S)	98	%		1.0	03/13/01 17:34	WRIC			
4-Bromofluorobenzene (S)	72	%		1.0	03/13/01 17:34	WRIC	460-00-4		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8520251

Client Project ID: BP Site#11102

Lab Sample No: 851681497 Project Sample Number: 8520251-003 Date Collected: 03/08/01 15:30
Client Sample ID: C (11102) Matrix: Water Date Received: 03/10/01 10:05

Parameters	Results	Units	PRL	Dilution	Analyzed	Analyst	CAS#	Ftnote	Limit
------------	---------	-------	-----	----------	----------	---------	------	--------	-------

GC Volatiles

Parameters	Results	Units	PRL	Dilution	Analyzed	Analyst	CAS#	Ftnote	Limit
GAS by Mod 8015, Water Method: EPA 8015 Modified Prep Method: EPA 8015 Modified									
Gasoline Range Organics	8200	ug/l	1200	25.0	03/14/01 13:32	WRIC			
1,4-Difluorobenzene (S)	105	%		1.0	03/14/01 13:32	WRIC			
4-Bromofluorobenzene (S)	80	%		1.0	03/14/01 13:32	WRIC	460-00-4		
SW8021 Aromatics, Water Method: EPA 8021 Prep Method: See analytical meth									
Benzene	23.5	ug/l	0.500	1.0	03/13/01 17:52	WRIC	71-43-2		
Ethylbenzene	5.23	ug/l	0.500	1.0	03/13/01 17:52	WRIC	100-41-4		
Toluene	6.09	ug/l	0.500	1.0	03/13/01 17:52	WRIC	108-88-3		
Xylene (Total)	8.97	ug/l	0.500	1.0	03/13/01 17:52	WRIC	1330-20-7		
Methyl-tert-butyl ether	11600	ug/l	12.5	25.0	03/13/01 17:52	WRIC	1634-04-4		
1,4-Difluorobenzene (S)	357	%		1.0	03/13/01 17:52	WRIC			1
4-Bromofluorobenzene (S)	77	%		1.0	03/13/01 17:52	WRIC	460-00-4		

Date: 03/14/01

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8520251
Client Project ID: BP Site#11102

PARAMETER FOOTNOTES

ND Not Detected
NC Not Calculable
PRL Pace Reporting Limit
(S) Surrogate
[1] Surrogate recovery outside of control limits. The data was accepted based upon valid recovery of remaining surrogate.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Lab Project Number: 8520251
 Client Project ID: BP Site#11102

QC Batch: 49953
 Analysis Method: EPA 8021
 Associated Lab Samples: 851681495 851681496 851681497

QC Batch Method: See analytical meth
 Analysis Description: SW8021 Aromatics, Water

METHOD BLANK: 851681400
 Associated Lab Samples:

Parameter	Units	851681495	851681496	851681497	Footnotes
		Method Blank Result			
			PRL		
Benzene	ug/l	ND	0.5		
Ethylbenzene	ug/l	ND	0.5		
Toluene	ug/l	ND	0.5		
Xylene (Total)	ug/l	ND	0.5		
Methyl-tert-butyl ether	ug/l	ND	0.5		
1,4-Difluorobenzene (S)	%	97			
4-Bromofluorobenzene (S)	%	72			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 851681591 851681592

Parameter	Units	Spike		Matrix		Matrix		Spike		RPD	Footnotes
		851681496	Conc.	Spike Result	% Rec	Sp. Dup. Result	% Rec	Dup	% Rec		
Benzene	ug/l	0	50.00	51.62	103	46.17	92	11			
Ethylbenzene	ug/l	0	50.00	46.26	92	40.74	82	13			
Toluene	ug/l	0	50.00	51.22	102	45.14	90	13			
Xylene (Total)	ug/l	0	100.00	89.07	89	77.64	78	14			
Methyl-tert-butyl ether	ug/l	60.43	50.00	103.3	86	98.86	77	4			
1,4-Difluorobenzene (S)					102		102				
4-Bromofluorobenzene (S)					76		77				

LABORATORY CONTROL SAMPLE: 851681688

Parameter	Units	Spike		LCS		Footnotes
		Conc.	% Rec	Result	% Rec	
Benzene	ug/l	50	109	54.38		
Ethylbenzene	ug/l	50	99	49.65		
Toluene	ug/l	50	110	54.76		
Xylene (Total)	ug/l	100	98	98.02		

Date: 03/14/01

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8520251

Client Project ID: BP Site#11102

LABORATORY CONTROL SAMPLE: 851681688

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Methyl-tert-butyl ether	ug/l	50	51.17	102	
1,4-Difluorobenzene (S)				103	
4-Bromofluorobenzene (S)				81	

Date: 03/14/01

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Lab Project Number: 8520251

Client Project ID: BP Site#11102

QC Batch: 49988

Analysis Method: EPA 8015 Modified

Associated Lab Samples: 851681495

QC Batch Method: EPA 8015 Modified

Analysis Description: GAS by Mod 8015, Water

851681496 851681497

METHOD BLANK: 851681593

Associated Lab Samples:

Parameter	Units	851681495	851681496	851681497	Footnotes
			Method Blank Result	PRL	
Gasoline Range Organics	ug/l		ND	50	
1,4-Difluorobenzene (S)	%		97		
4-Bromofluorobenzene (S)	%		72		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 851681724 851681725

Parameter	Units	851681504	Spike Conc.	Spike Result	Spike % Rec	Matrix	Spike	RPD	Footnotes
						Sp. Dup. Result	Dup % Rec		
Gasoline Range Organics	ug/l	17.66	900.00	842.4	92	894.1	97	6	
1,4-Difluorobenzene (S)					94		94		
4-Bromofluorobenzene (S)					103		105		

LABORATORY CONTROL SAMPLE: 851681594

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
1,4-Difluorobenzene (S)				96	
4-Bromofluorobenzene (S)				98	

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8520251
Client Project ID: BP Site#11102

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

CONSULTANT'S NAME Blaine Tech Services, Inc.		CONSULTANT'S ADDRESS 1680 Rogers Ave., San Jose CA 95112			
BP SITE NUMBER 11102	BP SITE / FACILITY ADDRESS 100 MacArthur Blvd., Oakland			CONSULTANT PROJECT NUMBER 010308-123	
CONSULTANT PROJECT MANAGER Scott Boor		PHONE NUMBER (408) 573-0555 x 223	FAX NUMBER (408) 573-7771		CONSULTANT CONTRACT NUMBER J588458
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 - Paula Kirtley	LABORATORY ADDRESS 900 Gemini Ave., Houston, TX 77058		PHONE NUMBER (281) 488-1810	FAX NO. (281) 488-4661	
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	3/8/01	1510	W	3	40"	Hel	X													857681495	
B		1440					X														96
C		1530					X														97

SAMPLED BY (Please Print Name) <i>Deane Aguah</i>			SAMPLED BY (Signature) <i>[Signature]</i>				ADDITIONAL COMMENTS			
RELINQUISHED BY / AFFILIATION (Print Name / Signature)	DATE	TIME	ACCEPTED BY / AFFILIATION (Print Name / Signature)	DATE	TIME					
<i>D. Aguah</i> AIRBORNE	3/6/01	1430	Airborne Express							
			<i>[Signature]</i>	3/10/01	10:05 AM					

Field Data Sheets

WELL GAUGING DATA

Project # A0308-A3 Date 3/8/01 Client BP

Site 100 McArthur Blvd. Oak. 1102

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	
MW-1	4					10.96	32.01	↓	C
MW-2	4					11.16	32.43	↓	A
MW-3	4					11.75	32.55	↓	B

BP WELL MONITORING DATA SHEET

Project #: 010308 - A3	Station # 11102
Sampler: 2	Date: 3/8/01
Well I.D.: MW-1	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 32.01	Depth to Water: 10.96
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
2"	0.16	5"	1.02
3"	0.37	6"	1.47
<u>4"</u>	0.65	Other	radius ² * 0.163

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

Other: _____

13.6	x	3	=	40.8	Gals.
I Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1519	68.6	7.2	778	19	
1522	68.9	7.7	818	28	
1525	68.7	6.7	827	41	

Did well dewater? Yes No Gallons actually evacuated: 41

Sampling Time: 1530 Sampling Date: 3/8/01

Sample I.D. (Blind): C Laboratory: SPL Other: FACE

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 #: 010308-A3	Station # 11102
Sampler: OA	Date: 3/8/01
Well I.D.: MW-2	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 32.43	Depth to Water: 11.16
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
2"	0.16	5"	1.02
3"	0.37	6"	1.47
<u>4"</u>	0.65	Other	radius ² * 0.163

Purge Method: Bailer Sampling Method: Bailer

Disposable Bailer Disposable Bailer
 Middleburg Extraction Port
 Electric Submersible Other: _____
 Extraction Pump

Other: _____

13.8	X	3	=	40.5	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1459	69.3	6.9	821	19	
1502	69.2	6.9	727	28	
1505	69.9	6.9	733	41	

Did well dewater? Yes No Gallons actually evacuated: 41

Sampling Time: 1510 Sampling Date: _____

Sample I.D. (Blind): A Laboratory: SPL Other: ACE

Analyzed for: TPH-G BTEX MTBB 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 #: 010308-43	Station #: 1110Z
Sampler: OA	Date: 3/8/01
Well I.D.: MW-3	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 32.5	Depth to Water: 11.75
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
2"	0.16	5"	1.02
3"	0.37	6"	1.47
<u>4"</u>	0.65	Other	radius ² * 0.163

Purge Method: Bailer Sampling Method: Bailer
 Disposable Bailer Disposable Bailer 6
 Middleburg Extraction Port
 Electric Submersible 8 Other: _____
 Extraction Pump
 Other: _____

<u>13.5</u>	x	<u>3</u>	=	<u>40.5</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1430	69.3	7.2	889	14	
1432	70.4	7.2	770	28	
1434	70.9	7.2	758	41	

Did well dewater? Yes No Gallons actually evacuated: 41

Sampling Time: 1440 Sampling Date: 3/8/01

Sample I.D. (Blind): B Laboratory: SPL Other: ACE

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