bp

Scott T. Hooton
Portfolio Manager

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

Switchboard: 425/251-0667
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December 13, 2000

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

RE: Former BP Oil Site No. 11270
3255 MeCartney Road
Alameda, CA

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

Dear Mr. Seto:

This transmits the 28 November 2000 *Third Quarter 2000 Groundwater Monitoring* report prepared by Blaine Tech Services on behalf of BP. The report summarizes chemical data obtained since 1992, including results associated with samples recently collected on 27 September 2000.

The enclosed report documents declining concentrations consistent with the natural attenuation of petroleum hydrocarbons. Please recall that issues related to the stabilization of the release (and more to the point – reductions in concentrations) were previously addressed in BP's letter of November 8, 1999. I hope that this data will add some certainty to the conclusion that further work at this site is not necessary or warranted. As you will recall, groundwater in the vicinity of the site should not be considered to be of present or future beneficial use because TDS concentrations generally exceed the 3,000 mg/l TDS threshold which defines a beneficial use aquifer.

Please contact me at (425) 251-0689 to discuss any questions or concerns.

Sincerely,

Scott Hooton

attachment

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

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CA 95112-1105
(408) 573-7771 FAX
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www.blainetech.com

November 28, 2000

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

3rd Quarter 2000 Monitoring at 11270

Third Quarter 2000 Groundwater Monitoring
BP Service Station Number 11270
3255 MeCartney Rd.,
Alameda, CA

Monitoring Performed on September 27, 2000

Groundwater Sampling Report **000927-Z-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.

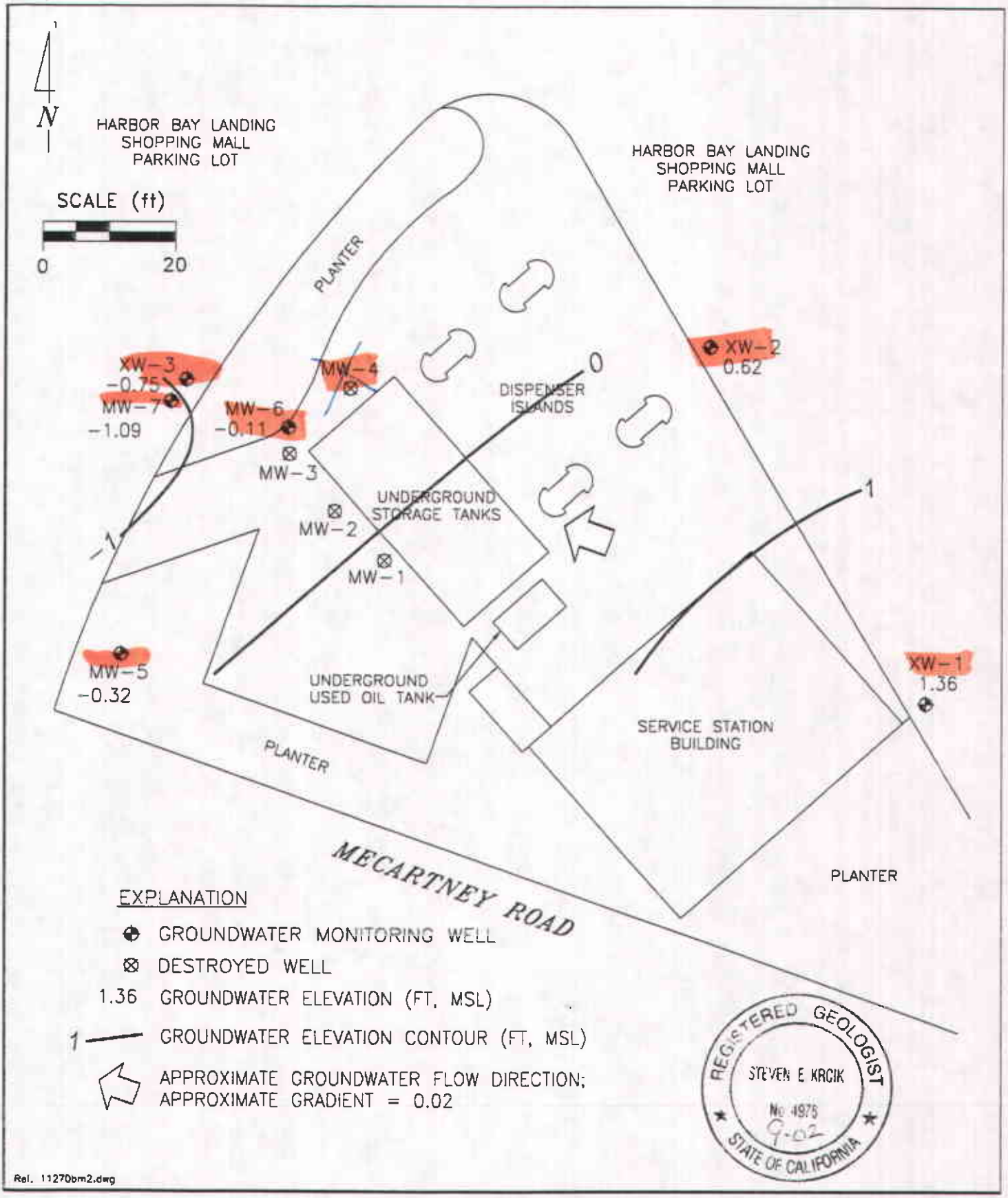
Yours truly,

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



PREPARED BY

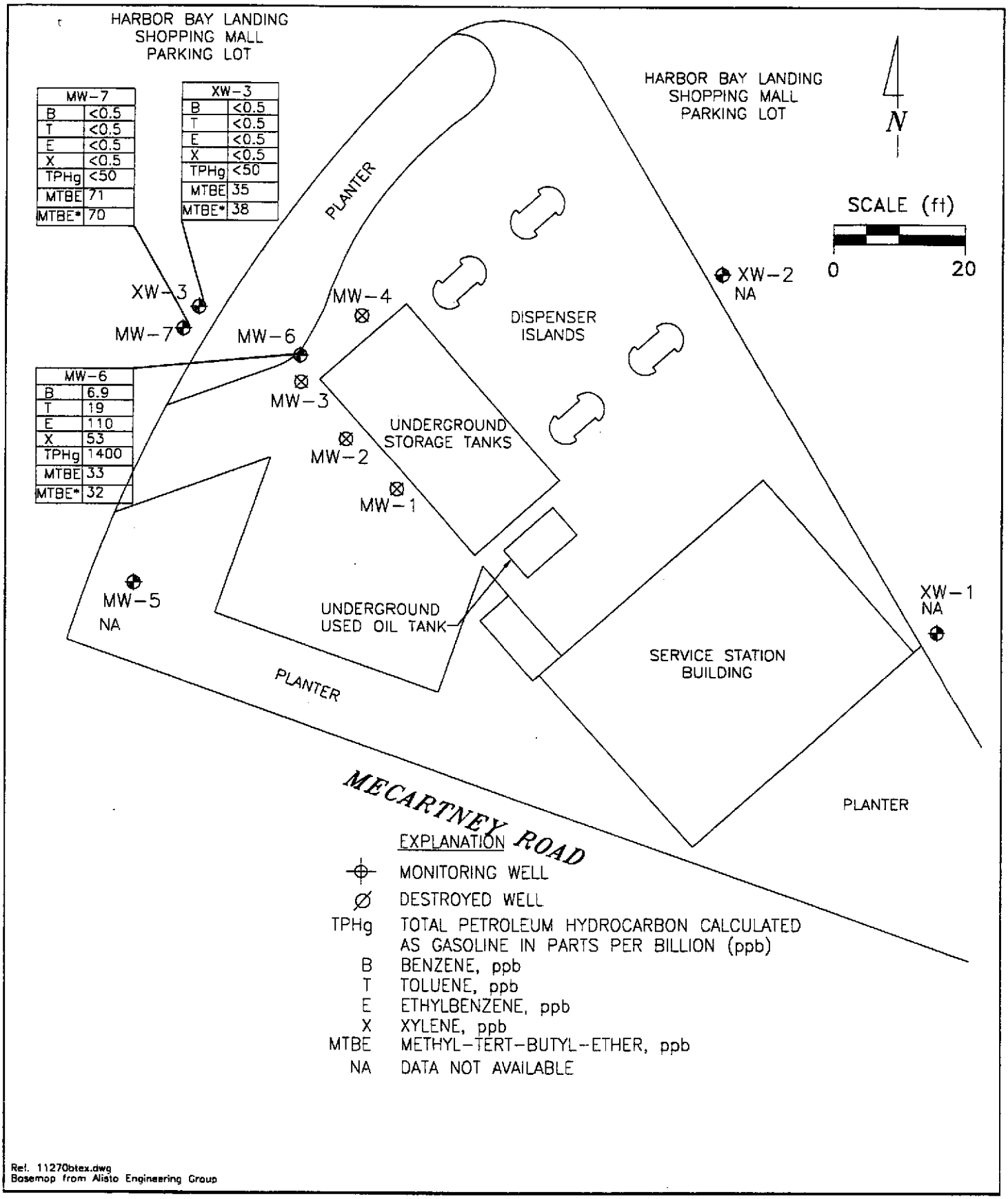
RRM

engineering contracting firm

GROUNDWATER ELEVATION CONTOUR MAP, SEPTEMBER 27, 2000

BP Oil Service Station No. 11270
3255 Mecartney Road
Alameda, California

FIGURE:
1
PROJECT:
DAC04



Ref. 11270btex.dwg
Basemap from Alisto Engineering Group

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engineering contracting firm

BP Oil Service Station No. 11270
3255 Mecartney Road
Alameda, California

HYDROCARBON CONCENTRATION MAP, SEPTEMBER 27, 2000

FIGURE: 2
PROJECT: DAC04

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)	TPH-D (ug//l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TDS (ug/l)	DO (ppm)	LAB
MW-1 (c)	10/29/92	7.49	7.28	---	0.21	---	---	---	---	---	---	---	---	---	---
MW-1 (c)	06/21/93	7.49	5.40	---	2.09	---	---	---	---	---	---	---	---	---	---
MW-1	04/05/94	7.49	5.64	---	1.85	1700	---	20	1.1	3.9	7.6	---	---	---	PACE
MW-1	07/28/94	7.49	6.22	---	1.27	---	---	---	---	---	---	---	---	---	PACE
MW-1	10/26/94	7.49	6.40	---	1.09	---	---	---	---	---	---	---	---	---	---
MW-1 (d)	02/05/95	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	10/29/92	7.07	6.84	---	0.23	2500	3900	140	ND<10	65	22	---	---	---	---
MW-2	06/21/93	7.07	5.49	---	1.58	720	770	12	1.5	11	12	---	---	---	---
MW-2	04/05/94	7.07	5.40	---	1.67	420	1300	ND<0.5	ND<0.5	ND<0.5	4	4500 (e)	---	1.8	PACE
MW-2	07/28/94	7.07	5.97	---	1.10	---	---	---	---	---	---	---	---	---	PACE
MW-2	10/26/94	7.07	6.10	---	0.97	---	---	---	---	---	---	---	---	---	---
MW-2 (d)	02/05/95	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-3 (c)	10/29/92	7.08	7.14	---	-0.06	---	---	---	---	---	---	---	---	---	---
MW-3 (c)	06/21/93	7.08	5.84	---	1.24	---	---	---	---	---	---	---	---	---	---
MW-3	04/05/94	7.08	5.83	---	1.25	990	4300	3.2	ND<0.5	ND<0.5	1.3	790 (e)	---	---	PACE
MW-3	07/28/94	7.08	6.32	---	0.76	---	---	---	---	---	---	---	---	---	PACE
MW-3	10/26/94	7.08	6.42	---	0.66	---	---	---	---	---	---	---	---	---	---
MW-3 (d)	02/05/95	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	10/29/92	7.13	6.90	---	0.23	2600	---	250	2.5	74	6.6	---	---	---	---
MW-4	06/21/93	7.13	5.54	---	1.59	1400	1100	24	2.9	2.6	7.9	---	---	---	---
MW-4	04/05/94	7.13	5.46	---	1.67	930	940	33	0.8	ND<0.5	2.8	8700 (e)	---	2.7	PACE
MW-4	07/28/94	7.13	6.02	---	1.11	2400	1400	19	1.8	0.5	8	---	---	6.7	PACE
QC-1 (f)	07/28/94	---	---	---	---	2300	---	19	1.7	0.5	7.4	---	---	---	PACE
MW-4	10/26/94	7.13	6.13	---	1.00	---	---	---	---	---	---	---	---	---	---
MW-4 (d)	02/05/95	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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)	TPH-D (ug//l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TDS (ug/l)	DO (ppm)	LAB
MW-5	06/21/93	8.36	7.44	---	0.92	ND<50	100	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---
MW-5	04/05/94	8.36	7.42	---	0.94	ND<50	100	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	2.5	PACE
QC-1 (f)	04/05/94	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
MW-5	07/28/94	8.36	7.88	---	0.48	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	7.4	PACE
MW-5	10/26/94	8.36	7.92	---	0.44	ND<50	160	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	5.5	PACE
QC-1 (f)	10/26/94	---	---	---	---	ND<50	---	ND<0.5	0.5	ND<0.5	ND<0.5	---	---	---	PACE
MW-5	02/05/95	8.36	7.83	---	0.53	ND<50	ND<500	ND<0.25	ND<0.25	ND<0.25	ND<0.50	---	---	---	ATI
QC-1 (f)	02/05/95	---	---	---	---	ND<50	---	ND<0.25	ND<0.25	ND<0.25	ND<0.50	---	---	---	ATI
MW-5	05/05/95	8.36	9.00	---	-0.64	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	3.1	ATI
MW-5	07/19/95	8.36	9.03	---	-0.67	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	14700	4.6	ATI
MW-5	10/12/95	8.36	9.15	---	-0.79	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	8490	4.3	ATI
MW-5	01/08/96	8.36	9.04	---	-0.68	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	10000	4.9	ATI
MW-5	09/11/97	8.36	8.90	---	-0.54	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4	SPL
MW-5	01/27/98	8.36	8.27	---	0.09	---	---	---	---	---	---	---	---	---	---
MW-5	04/19/98	8.36	8.60	---	-0.24	---	---	---	---	---	---	---	---	---	---
MW-5	09/27/00	8.36	8.68	---	-0.32	---	---	---	---	---	---	---	---	---	---
MW-6	02/05/95	6.88	6.39	---	0.49	1000	1000	7.6	19	9.1	96	--- (g)	---	5	ATI
MW-6	05/05/95	6.88	6.85	---	0.03	2300	---	49	9	130	46	---	---	3.3	ATI
QC-1 (f)	05/05/95	---	---	---	---	2400	---	49	9.2	140	48	---	---	---	ATI
MW-6	07/19/95	6.88	7.13	---	-0.25	1500	---	84	3.3	28	24	--- (g)	818	3.7	ATI
QC-1 (f)	07/19/95	---	---	---	---	1500	---	89	3.8	30	26	--- (g)	---	---	ATI
MW-6	10/12/95	6.88	7.35	---	-0.47	1800	---	38	13	38	86	2500	868	4.1	ATI
QC-1 (f)	10/12/95	---	---	---	---	1100	---	33	7	18	44	2200	---	---	ATI
MW-6	01/08/96	6.88	7.04	---	-0.16	1300	---	31	4.7	60	53	170	474	4.2	ATI
QC-1 (f)	01/08/96	---	---	---	---	1000	---	27	4	49	44	150	---	---	ATI
MW-6	09/11/97	6.88	7.29	---	-0.41	ND<250	---	8.5	ND<5.0	11	6	1400	---	3.5	SPL
QC-1 (f)	09/11/97	---	---	---	---	210	---	8.7	ND<5.0	14	8	1400	---	---	SPL
MW-6	01/27/98	6.88	6.20	---	0.68	47000	---	350	150	360	690	38000	---	4.6	SPL
QC-1 (f)	01/27/98	---	---	---	---	51000	---	290	120	300	580	35000	---	---	SPL
MW-6	04/19/98	6.88	6.64	---	0.24	36000	---	40	510	140	10500	660	---	4	SPL
QC-1 (f)	04/19/98	---	---	---	---	24000	---	20	360	81	7100	480	---	---	SPL
MW-6	09/27/00	6.88	6.99	---	-0.11	1400	---	6.9	19	110	53	33/32 (i)	---	---	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)	TPH-D (ug//l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TDS (ug/l)	DO (ppm)	LAB
MW-7	02/05/95	6.62	7.62	---	-1.00	280	ND<500	ND<0.25	ND<0.25	ND<0.25	ND<0.50	--- (g)	---	5.1	ATI
MW-7	05/05/95	6.62	7.64	---	-1.02	290	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	3.6	ATI
MW-7	07/19/95	6.62	7.70	---	-1.08	150	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--- (g)	12100	4.6	ATI
MW-7	10/12/95	6.62	7.88	---	-1.26	110	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	390	14000	4.7	ATI
MW-7	01/08/96	6.62	7.66	---	-1.04	90	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	300	12060	4.9	ATI
MW-7	09/11/97	6.62	7.78	---	-1.16	ND<50	---	ND<2.5	ND<5.0	ND<5.0	ND<5.0	63	---	3.8	SPL
MW-7	01/27/98	6.62	7.30	---	-0.68	1400	---	7.7	ND<1.0	ND<1.0	ND<1.0	920	---	4.4	SPL
MW-7	04/19/98	6.62	7.52	---	-0.90	3500	---	15	7.7	11	19.3	3600	---	4.7	SPL
MW-7	09/27/00	6.62	7.71	---	-1.09	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	71/70 (i)	---	---	PACE
XW-1	06/21/93	---	---	---	---	---	---	---	---	---	---	---	---	---	---
XW-1	04/05/94	---	5.36	---	---	ND<50	70	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	3	PACE
XW-1	07/28/94	---	5.92	---	---	---	---	---	---	---	---	---	---	---	PACE
XW-1	10/26/94	---	6.05	---	---	---	---	---	---	---	---	---	---	---	---
XW-1	02/05/95	7.49	5.82	---	1.67	ND<50	ND<500	ND<0.25	ND<0.25	ND<0.25	ND<0.50	---	---	4.9	ATI
XW-1	05/05/95	7.49	5.57	---	1.92	---	---	---	---	---	---	---	---	---	---
XW-1	07/19/95	7.49	6.12	---	1.37	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	1680	4.3	ATI
XW-1	10/12/95	7.49	6.82	---	0.67	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	1150	3.8	ATI
XW-1	01/08/96	7.49	6.11	---	1.38	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	1300	4.7	ATI
XW-1	09/11/97	7.49	6.57	---	0.92	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.3	SPL
XW-1	01/27/98	7.49	5.27	---	2.22	---	---	---	---	---	---	---	---	---	---
XW-1	04/19/98	7.49	5.24	---	2.25	---	---	---	---	---	---	---	---	---	---
XW-1	09/27/00	7.49	6.13	---	1.36	---	---	---	---	---	---	---	---	---	---
XW-2	06/21/93	7.48	5.89	---	1.59	---	---	---	---	---	---	---	---	---	---
XW-2	04/05/94	7.48	5.77	---	1.71	ND<50	160	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	3	PACE
XW-2	07/28/94	7.48	6.25	---	1.23	---	---	---	---	---	---	---	---	---	PACE
XW-2	10/26/94	7.48	6.39	---	1.09	---	---	---	---	---	---	---	---	---	---
XW-2	02/05/95	7.48	5.62	---	1.86	ND<50	ND<500	ND<0.25	0.38	ND<0.25	ND<0.50	---	---	5.2	ATI
XW-2	05/05/95	7.48	5.66	---	1.82	---	---	---	---	---	---	---	---	---	---
XW-2	07/19/95	7.48	6.8	---	0.68	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	4750	3.9	ATI
XW-2	10/12/95	7.48	7.21	---	0.27	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	3630	4.3	ATI
XW-2	01/08/96	7.48	6.79	---	0.69	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	3440	4.2	ATI
XW-2	09/11/97	7.48	6.86	---	0.62	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.6	SPL
XW-2	01/27/98	7.48	5.88	---	1.60	---	---	---	---	---	---	---	---	---	---
XW-2	04/19/98	7.48	5.42	---	2.06	---	---	---	---	---	---	---	---	---	---
XW-2	09/27/00	7.48	6.86	---	0.62	---	---	---	---	---	---	---	---	---	---

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)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TDS (ug/l)	DO (ppm)	LAB
XW-3	06/21/93	6.84	5.85	---	0.99	---	---	---	---	---	---	---	---	---	---
XW-3	04/05/94	6.84	5.85	---	0.99	ND<50	150	ND<0.5	0.7	ND<0.5	ND<0.5	---	---	3.1	PACE
XW-3	07/28/94	6.84	6.28	---	0.56	---	---	---	---	---	---	---	---	---	PACE
XW-3	10/26/94	6.84	6.4	---	0.44	---	---	---	---	---	---	---	---	---	---
XW-3	02/05/95	6.84	7.23	---	-0.39	280	ND<500	ND<0.50	ND<0.50	0.63	ND<1.0	--- (g)	---	4.9	ATI
XW-3	05/05/95	6.84	7.43	---	-0.59	---	---	---	---	---	---	---	---	---	---
XW-3	07/19/95	6.84	7.6	---	-0.76	400	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	10400	4.3	ATI
XW-3	10/12/95	6.84	7.74	---	-0.90	130	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	480 (e)	8430	4.7	ATI
XW-3	01/08/96	6.84	7.58	---	-0.74	320	---	ND<2.5	ND<2.5	ND<2.5	ND<5.0	1100	10000	4.4	ATI
XW-3	01/27/98	6.84	7.01	---	-0.17	1200	---	2.8	ND<1.0	ND<1.0	ND<1.0	990	---	4.3	SPL
XW-3	04/19/98	6.84	7.28	---	-0.44	4500	---	ND<2.5	ND<5.0	ND<5.0	ND<5.0	4800	---	4.3	SPL
XW-3	09/27/00	6.84	7.59	---	-0.75	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	35/38 (i)	---	---	PACE
QC-2 (h)	04/05/94	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
QC-2 (h)	07/28/94	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
QC-2 (h)	10/26/94	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
QC-2 (h)	02/05/95	---	---	---	---	ND<50	---	ND<0.25	ND<0.25	ND<0.25	ND<0.50	---	---	---	ATI
QC-2 (h)	05/05/95	---	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	ATI
QC-2 (h)	07/19/95	---	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	ATI
QC-2 (h)	10/12/95	---	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	---	ATI
QC-2 (h)	01/08/96	---	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	---	ATI

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

ADDITIONAL ANALYSES

Well ID	DATE OF SAMPLING/ MONITORING	TBA (ug/l)	DIPE (ug/l)	ETBE (ug/l)	TAME (ug/l)
MW-6	09/27/00	ND<10	ND<1.0	ND<1.0	6.2
MW-7	09/27/00	20	ND<1.0	ND<1.0	9.4
XW-3	09/27/00	ND<10	ND<1.0	ND<1.0	6.2

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
TDS	Total dissolved solids
DO	Dissolved oxygen
ug/l	Micrograms per liter
mg/l	Milligrams per liter
ppm	Parts per million
---	Not analyzed/measured/applicable
ND	Not detected above reported detection limit
PACE	Pace, Inc.
ATI	Analytical Technologies, Inc.
SPL	Southern Petroleum Laboratories
DIPE	Di-Isopropyl Ether
ETBE	Ethyl t-Butyl Ether
TAME	t-Amyl Methyl Ether

NOTES:

Blaine Tech Services, Inc. began routine monitoring of this facility on September 27, 2000. All previous data provided by Alisto Engineering.

(a) Casing elevations surveyed to nearest 0.01 foot relative to an arbitrary datum.

(b) Groundwater elevations in feet above an arbritary datum.

(c) Not sampled due to inadequate recharge.

(d) Wells destroyed by HETI on January 18 and 19, 1995.

(e) A copy of the documentation for this data is included in Appendix C of Alisto report 10-206-04-001.

(f) Blind duplicate.

(g) MTBE peak present. See documentation for this data included in Appendix C of Alisto report 10-206-04-001.

(h) Travel blank.

(i) MTBE by 8020/8260.

Analytical Appendix

Pace Analytical™
www.pacelabs.com

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

October 16, 2000

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

RE: Pace Project Number: 6045360
Client Project ID: BP 11270

Dear Mr. HARGRAVE:

Enclosed are the analytical results for sample(s)received by the laboratory on October 3, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lily Bayati

Lily Bayati
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Pace Analytical™
www.pacelabs.com

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

DATE: 10/16/00

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

Pace Project Number: 6045360
Client Project ID: BP 11270

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

Solid results are reported on a wet weight basis

Pace Sample No: 603866625 Date Collected: 09/27/00 Matrix: Water
Client Sample ID: A Date Received: 10/03/00

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	10/07/00	VN		
Benzene	ND	ug/l	0.5	10/07/00	VN	71-43-2	
Toluene	ND	ug/l	0.5	10/07/00	VN	108-88-3	
Ethylbenzene	ND	ug/l	0.5	10/07/00	VN	100-41-4	
Methyl-tert-butyl Ether	71	ug/l	0.5	10/07/00	VN	1634-04-4	
Xylene (Total)	ND	ug/l	0.5	10/07/00	VN	1330-20-7	
a,a,a-Trifluorotoluene (S)	115	%		10/07/00	VN	2164-17-2	
GC/MS VOCs by 8260		Method: EPA 8260			Prep Method: EPA 8260		
Methyl-tert-butyl Ether	70	ug/l	1	10/03/00	RG	1634-04-4	
tert-butyl Alcohol(TBA)	20	ug/l	10	10/03/00	RG	75-65-0	
Diisopropyl ether (DIPE)	ND	ug/l	1	10/03/00	RG	108-20-3	
Ethyl-tert-butyl ether(ETBE)	ND	ug/l	1	10/03/00	RG	637-92-3	
tert-Amyl Methyl ether(TAME)	9.4	ug/l	1	10/03/00	RG	994-05-8	
Dibromofluoromethane (S)	95	%		10/03/00	RG	1868-53-7	
Toluene-d8 (S)	101	%		10/03/00	RG	2037-26-5	
4-Bromofluorobenzene (S)	99	%		10/03/00	RG	460-00-4	

REPORT OF LABORATORY ANALYSIS

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3970 Gilman Street
Long Beach, CA 90815
Phone: 562.498.9515
Fax: 562.597.0786

Pace Project Number: 6045360
Client Project ID: BP 11270

Pace Sample No: 603866633 Date Collected: 09/27/00 Matrix: Water
Client Sample ID: B Date Received: 10/03/00

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	10/07/00	VN		
Benzene	ND	ug/l	0.5	10/07/00	VN	71-43-2	
Toluene	ND	ug/l	0.5	10/07/00	VN	108-88-3	
Ethylbenzene	ND	ug/l	0.5	10/07/00	VN	100-41-4	
Methyl-tert-butyl Ether	35	ug/l	0.5	10/07/00	VN	1634-04-4	
Xylene (Total)	ND	ug/l	0.5	10/07/00	VN	1330-20-7	
a,a,a-Trifluorotoluene (S)	115	%		10/07/00	VN	2164-17-2	
GC/MS VOCs by 8260		Method: EPA 8260			Prep Method: EPA 8260		
Methyl-tert-butyl Ether	38	ug/l	1	10/09/00	RG	1634-04-4	
tert-butyl Alcohol(TBA)	ND	ug/l	10	10/09/00	RG	75-65-0	
Diisopropyl ether (DIPE)	ND	ug/l	1	10/09/00	RG	108-20-3	
Ethyl-tert-butyl ether(ETBE)	ND	ug/l	1	10/09/00	RG	637-92-3	
tert-Amyl Methyl ether(TAME)	6.2	ug/l	1	10/09/00	RG	994-05-8	
Dibromofluoromethane (S)	93	%		10/09/00	RG	1868-53-7	
Toluene-d8 (S)	100	%		10/09/00	RG	2037-26-5	
4-Bromofluorobenzene (S)	96	%		10/09/00	RG	460-00-4	

REPORT OF LABORATORY ANALYSIS

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3970 Gilman Street
Long Beach, CA 90815
Phone: 562.498.9515
Fax: 562.597.0786

Pace Project Number: 6045360
Client Project ID: BP 11270

Pace Sample No: 603866641 Date Collected: 09/27/00 Matrix: Water
Client Sample ID: C Date Received: 10/03/00

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	1400	ug/l	50	10/07/00	VN		
Benzene	6.9	ug/l	0.5	10/07/00	VN	71-43-2	
Toluene	19	ug/l	0.5	10/07/00	VN	108-88-3	
Ethylbenzene	110	ug/l	0.5	10/07/00	VN	100-41-4	
Methyl-tert-butyl Ether	33	ug/l	0.5	10/07/00	VN	1634-04-4	
Xylene (Total)	53	ug/l	0.5	10/07/00	VN	1330-20-7	
a,a,a-Trifluorotoluene (S)	200	%		10/07/00	VN	2164-17-2	1
GC/MS VOCs by 8260		Method: EPA 8260			Prep Method: EPA 8260		
Methyl-tert-butyl Ether	32	ug/l	1	10/03/00	RG	1634-04-4	
tert-butyl Alcohol(TBA)	ND	ug/l	10	10/03/00	RG	75-65-0	
Diisopropyl ether (DIPE)	ND	ug/l	1	10/03/00	RG	108-20-3	
Ethyl-tert-butyl ether(ETBE)	ND	ug/l	1	10/03/00	RG	637-92-3	
tert-Amyl Methyl ether(TAME)	6.2	ug/l	1	10/03/00	RG	994-05-8	
Dibromofluoromethane (S)	96	%		10/03/00	RG	1868-53-7	
Toluene-d8 (S)	97	%		10/03/00	RG	2037-26-5	
4-Bromofluorobenzene (S)	97	%		10/03/00	RG	460-00-4	

REPORT OF LABORATORY ANALYSIS

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Phone: 562.498.9515
Fax: 562.597.0786

Pace Project Number: 6045360
Client Project ID: BP 11270

PARAMETER FOOTNOTES

ND	Not Detected
NC	Not Calculable
PRL	Pace Reporting Limit
(S)	Surrogate
[1]	Matrix Effect

REPORT OF LABORATORY ANALYSIS

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Fax: 562.597.0786

QUALITY CONTROL DATA

DATE: 10/16/00

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

Pace Project Number: 6045360
Client Project ID: BP 11270

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

QC Batch ID: 92033
QC Batch Method: EPA 8015/8020 Modif
Analysis Method: EPA 8015/8020 Modif
Analysis Description: GAS BTEX by 8015, Water
Associated Pace Samples: 603866625 603866633 603866641

METHOD BLANK: 603877960
Associated Pace Samples:
603866625 603866633 603866641

Parameter	Units	Method Blank Result	PRL	Footnotes
Gasoline	ug/l	ND	12	
Benzene	ug/l	ND	0.05	
Toluene	ug/l	ND	0.05	
Ethylbenzene	ug/l	ND	0.05	
Methyl-tert-butyl Ether	ug/l	ND	0.05	
Xylene (Total)	ug/l	ND	0.05	
a,a,a-Trifluorotoluene (S)	%	120		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603877978 603877986

Parameter	Units	603866682	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Gasoline	ug/l	0	40	38.90	97.3	38.70	96.8	1	
Benzene	ug/l	0	6.667	6.850	103	6.890	103	1	
Toluene	ug/l	0	6.667	6.760	101	6.860	103	1	
Ethylbenzene	ug/l	0	6.667	6.963	104	7.050	106	1	
Methyl-tert-butyl Ether	ug/l	0.4778	6.667	7.890	111	8.190	116	4	
Xylene (Total)	ug/l	0	20	20.34	102	20.49	102	1	
a,a,a-Trifluorotoluene (S)					111		114		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

DATE: 10/16/00

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

Pace Project Number: 6045360
Client Project ID: BP 11270

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

QC Batch ID: 92094
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: GC/MS VOCs by 8260
Associated Pace Samples: 603866625 603866641

METHOD BLANK: 603879941
Associated Pace Samples:
603866625 603866641

Parameter	Units	Method Blank Result	PRL	Footnotes
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)	%	96		
Toluene-d8 (S)	%	98		
4-Bromofluorobenzene (S)	%	99		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603879966 603879974

Parameter	Units	603857186	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Dibromofluoromethane (S)					98		96		
Toluene-d8 (S)					98		100		
4-Bromofluorobenzene (S)					89		87		

LABORATORY CONTROL SAMPLE: 603879958

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Dibromofluoromethane (S)				98	
Toluene-d8 (S)				96	

REPORT OF LABORATORY ANALYSIS

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Long Beach, CA 90815
Phone: 562.498.9515
Fax: 562.597.0786

QUALITY CONTROL DATA

Pace Project Number: 6045360
Client Project ID: BP 11270

LABORATORY CONTROL SAMPLE: 603879958

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
4-Bromofluorobenzene (S)				88	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

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

Pace Project Number: 6045360
Client Project ID: BP 11270

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

QC Batch ID: 92157
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: GC/MS VOCs by 8260
Associated Pace Samples: 603866633

METHOD BLANK: 603881962
Associated Pace Samples:
603866633

Parameter	Units	Method Blank Result	PRL	Footnotes
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)	%	93		
Toluene-d8 (S)	%	98		
4-Bromofluorobenzene (S)	%	96		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603881970 603881988

Parameter	Units	603871831	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Dibromofluoromethane (S)					97		92		
Toluene-d8 (S)					100		100		
4-Bromofluorobenzene (S)					85		85		

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

Pace Project Number: 6045360
Client Project ID: BP 11270

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

BP

CHAIN OF CUSTODY

17134 D

604 53360

Page 1 of 1

CONSULTANT'S NAME	CONSULTANT'S ADDRESS		
Blaine Tech Services, Inc.	1680 Rogers Ave., San Jose CA 95112		
BP SITE NUMBER: 11270	BP SITE / FACILITY ADDRESS: 3255 Mecartney Rd., Alameda		CONSULTANT PROJECT NUMBER: 000927-Z2
CONSULTANT PROJECT MANAGER: Morgan Hargrave	PHONE NUMBER: (408) 573-0555 x 218	FAX NUMBER: (408) 573-7771	CONSULTANT CONTRACT NUMBER: 351637
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: SHIPMENT METHOD: Airborne

TAT: ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☑ Standard 7 or 14 Days

ANALYSIS REQUIRED

AIRBILL NUMBER: 838133615 5

SAMPLE DESCRIPTION	COLLECTION DATE	COLLECTION TIME	MATRIX SOIL/WATER	CONTAINERS NO.	CONTAINERS TYPE (VOL)	PRESERVATIVE LAB SAMPLE #	TPH-G + BTEX / MTBE (8015M) (8020)	TPH-D (8015M)	FUEL OXYGENATES and TBA (8260)	1,2 DCA + EDB (8010)	COMMENTS
A	9-27-00	1442	W	6	VOA		X		X		
B	9-27-00	1505	W	6	VOA		X		X		
C	9-27-00	1531	W	6	VOA		X		X		

SAMPLED BY (Please Print Name): AIDAN METZGER

SAMPLED BY (Signature): Aidan Metzger

ADDITIONAL COMMENTS: 4°C

RELINQUISHED BY / AFFILIATION (Print Name / Signature)	DATE	TIME	ACCEPTED BY / AFFILIATION (Print Name / Signature)	DATE	TIME
AIDAN METZGER Aidan Metzger	9/29/00	14:00		9/30/00	12:00

Field
Data
Sheets

WELL GAUGING DATA

Project # 000927-Z2 Date 9-27-00 Client BP

Site #11270 / 3255 McCartney Rd

	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-5	4					8.68	14.75		
*	MW-6	4	C				6.99	14.85		
*	MW-7	2	A				7.71	14.77		
	XW-1	2					6.13	15.60		
	XW-2	2					6.86	14.29		
*	XW-3	2	B				7.59	13.70		

BP WELL MONITORING DATA SHEET

Project #: 000927-Z2	Job # Site # 11270
Sampler: Aidan M.	Date: 9-27-00
Well I.D.: MW-6	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 14.85	Depth to Water: 6.99
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
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius^2 * 0.163

Purge Method: Bailer / Disposable Bailer / Middleburg / (Electric Submersible) / Extraction Pump / Other: ____

Sampling Method: Bailer / (Disposable Bailer) / Extraction Port / Other: ____

5.1 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 15.3 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1526	72.1	7.2	1068		5	
1527	71.8	6.9	1069		10	
1528	71.6	6.9	1086		16	

Did well dewater? Yes (No)	Gallons actually evacuated: 16
Sampling Time: 1531	Sampling Date: 9-27-00
Sample I.D.: C	Laboratory: Pace Other ____
Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D	Other: Oxygenates and TBA 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 #: 000927-Z2	Job # Site # 11270
Sampler: Aidan M.	Date: 9-27-00
Well I.D.: MW-7	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 14.77	Depth to Water: 7.71
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
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius^2 * 0.163

Purge Method: Bailer (Disposable Bailer) Middleburg Electric Submersible Extraction Pump Other: ___

Sampling Method: Bailer (Disposable Bailer) Extraction Port Other: ___

1.1 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 3.3 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1436	69.9	7.3	18,030		2	
1438	69.5	7.3	17,540		3	
1439	69.1	7.3	16,130		4	

Did well dewater? Yes (No)	Gallons actually evacuated: 4
Sampling Time: 1442	Sampling Date: 9-27-00
Sample I.D.: A	Laboratory: ~~BC~~ Pace Other ___
Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D	Other: Oxygenates and TBA 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 #: 000927-Z2	Job # Site # 11270
Sampler: Aidan M.	Date: 9-27-00
Well I.D.: XW-3	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 13.70	Depth to Water: 7.59
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
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius^2 * 0.163

Purge Method:
- Bailer
- (Disposable Bailer)
- Middleburg
- Electric Submersible
- Extraction Pump
- Other: ____

Sampling Method:
- Bailer
- (Disposable Bailer)
- ~~Disposable Bailer~~ Extraction Port
- Other: ____

1.1 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 3.3 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1457	68.8	7.3	25,010		2	
1459	69.0	7.3	23,090		3	
1501	68.7	7.2	23,420		4	

Did well dewater? Yes (No)	Gallons actually evacuated: 4
Sampling Time: 1505	Sampling Date: 9-27-00
Sample I.D.: B	Laboratory: ~~BC~~ Pace Other____
Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D	Other: Oxygenates and TBA 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