BP OIL

BP Oil Company
Environmental Remediation Management
295 SW 41st Street
Renton, Washington 98055-4931
(425) 251-0667
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98 AUG 25 PM 11:02

ENVIRONMENTAL PROTECTION

August 21, 1998

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

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

Dear Ms. Hugo:

Enclosed please find a report titled Groundwater Monitoring and Sampling Report, dated 22 August 1998.

The report shows that aromatic petroleum constituents were detected in groundwater samples collected from six of the nine wells sampled this quarter (28 May 1998). The highest benzene concentration (3,900 ug/l) was reported in a sample obtained from well MW-2, located south of the underground storage tanks.

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

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

Sincerely,

Scott Hooton
Environmental Remediation Management

attachment

cc: B. Nagle - Alisto
Ade Fagorala- CRWQCB-SFBR
T. Berry - Tosco (w/attachment)

GROUNDWATER MONITORING AND SAMPLING REPORT

BP Oil Company Service Station No. 11132
3201 35th Street
Oakland, California

Project No. 10-024-10-004

Prepared for:

BP Oil Company
Environmental Resources Management
295 S.W. 41st Street
Building 13, Suite N
Renton, Washington

Prepared by:

Alisto Engineering Group
1575 Treat Boulevard, Suite 201
Walnut Creek, California

August 22, 1998

Brady Nagle
Project Manager

Al Sevilla, P.E.
Principal

GROUNDWATER MONITORING AND SAMPLING REPORT

BP Oil Company Service Station No. 11132
3201 35th Street
Oakland, California

Project No. 10-024-10-004

August 22, 1998

INTRODUCTION

This report presents the results and findings of the May 28, 1998 groundwater monitoring and sampling conducted by Alisto Engineering Group at BP Oil Company Service Station No. 11132, 3201 35th Street, Oakland, California. A site vicinity map is shown on Figure 1.

FIELD PROCEDURES

Field activities were performed in accordance with the procedures and guidelines of the Alameda County Health Care Services Agency and the California Regional Water Quality Control Board, San Francisco Bay Region.

Before purging and sampling, the groundwater level in each well was measured from a permanent mark on top of the casing to the nearest 0.01 foot using an electronic sounder. The depth to groundwater and top of casing elevation data were used to calculate the groundwater elevation in each well relative to mean sea level. The survey data and groundwater elevation measurements collected to date are presented in Table 1.

Before sample collection, each well was purged of 3 casing volumes while recording field readings of pH, temperature, electrical conductivity, and dissolved oxygen. Groundwater samples were collected for laboratory analysis by lowering a bottom-fill, disposable bailer to just below the water level in the well. The samples were transferred from the bailer into laboratory-supplied containers. The water sampling field survey forms are presented in Appendix A.

SAMPLING AND ANALYTICAL RESULTS

The results of monitoring and laboratory analysis of the groundwater samples for this and previous quarters are summarized in Table 1. The potentiometric groundwater elevations as interpreted from the results of this monitoring event are shown on Figure 2. The results of groundwater analysis are shown on Figure 3. The laboratory report and chain of custody record are presented in Appendix B.

FREE PRODUCT MONITORING AND RECOVERY

Product recovery canisters have been installed in Monitoring Wells MW-1, MW-2, MW-8, MW-9, and MW-10 to recover liquid-phase product. Product thicknesses measured during this and previous monitoring events are presented in Table 1. The volume of free product recovered from the wells is presented in Table 2.

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
BP OIL COMPANY SERVICE STATION NO. 11132
3201 35TH STREET, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-024

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-1	07/09/90	169.75	---	0.22	---	---	---	---	---	---	---	---	---
MW-1	12/21/90	169.75	---	0.58	---	---	---	---	---	---	---	---	---
MW-1	03/07/91	169.75	20.59	---	---	---	---	---	---	---	---	---	---
MW-1	06/27/91	169.75	---	0.18	---	---	---	---	---	---	---	---	---
MW-1	09/27/91	169.75	---	0.27	---	---	---	---	---	---	---	---	---
MW-1	12/18/91	169.75	---	0.28	---	---	---	---	---	---	---	---	---
MW-1	04/01/91	169.75	16.51	0.15	153.35	---	---	---	---	---	---	---	---
MW-1	07/03/92	169.75	22.30	0.27	147.65	---	---	---	---	---	---	---	---
MW-1	10/05/92	169.75	23.98	0.24	145.95	---	---	---	---	---	---	---	---
MW-1	01/13/93	169.75	17.03	0.24	152.90	---	---	---	---	---	---	---	---
MW-1	04/23/93	169.75	18.10	0.42	151.97	---	---	---	---	---	---	---	---
MW-1	07/12/93	169.75	22.02	0.49	148.10	---	---	---	---	---	---	---	---
MW-1	10/21/93	169.75	25.12	1.09	145.45	---	---	---	---	---	---	---	---
MW-1	01/21/94	169.75	23.02	0.76	147.30	---	---	---	---	---	---	---	---
MW-1	04/20/94	169.75	24.54	1.80	146.56	---	---	---	---	---	---	---	---
MW-1	08/01/94	169.75	24.11	0.35	145.90	---	---	---	---	---	---	---	---
MW-1	12/23/94	169.75	18.19	0.29	151.78	---	---	---	---	---	---	---	---
MW-1	01/26/95	169.75	16.25	1.10	154.33	---	---	---	---	---	---	---	---
MW-1	06/08/95	169.75	22.92	1.20	147.73	---	---	---	---	---	---	---	---
MW-1	08/22/95	169.75	24.45	0.85	145.94	---	---	---	---	---	---	---	---
MW-1	10/27/95	169.75	25.41	0.69	144.86	---	---	---	---	---	---	---	---
MW-1	01/25/96	169.75	18.20	1.40	152.60	---	---	---	---	---	---	---	---
MW-1	04/19/96	169.75	19.06	1.22	151.61	---	---	---	---	---	---	---	---
MW-1	07/23/96	169.75	22.98	0.89	147.44	---	---	---	---	---	---	---	---
MW-1	11/11/96	169.75	23.99	0.98	146.50	---	---	---	---	---	---	---	---
MW-1	01/21/97	169.75	16.80	0.90	153.63	---	---	---	---	---	---	---	---
MW-1	04/29/97	169.75	21.90	0.85	148.49	---	---	---	---	---	---	---	---
MW-1	04/30/97	169.75	---	---	---	100000	3600	8000	4000	21300	7700	5.2	SPL
QC-1 (c)	04/30/97	---	---	---	---	92000	3500	8100	4400	23800	6900	---	SPL
MW-1	08/21/97	169.75	23.40	0.87	147.00	140000	3000	8500	3900	22100	5700	5.3	SPL
QC-1 (c)	08/21/97	---	---	---	---	120000	3200	8100	3800	19600	5200	---	SPL
MW-1	11/05/97	169.75	23.70	0.54	146.46	68000	6200	4400	3300	14300	8000	4.7	SPL
QC-1 (c)	11/05/97	---	---	---	---	88000	7300	4800	3600	16900	8200	---	SPL
MW-1	02/03/98	169.75	13.63	0.32	156.36	---	---	---	---	---	---	---	---
MW-1	02/04/98	---	---	---	---	190000	2200	10000	5600	32000	ND<10000	5.3	SPL
QC-1 (c)	02/04/98	---	---	---	---	160000	2300	8400	5000	29400	ND<10000	---	SPL
MW-1	05/28/98	169.75	18.03	0.17	151.85	87000	980	3900	3600	19000	2900	3.8	SPL

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
BP OIL COMPANY SERVICE STATION NO. 11132
3201 35TH STREET, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-024

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-2	07/09/90	168.14	---	0.10	---	---	---	---	---	---	---	---	---
MW-2	12/21/90	168.14	---	0.48	---	---	---	---	---	---	---	---	---
MW-2	03/07/91	168.14	19.18	---	---	---	---	---	---	---	---	---	---
MW-2	06/27/91	168.14	---	0.19	---	---	---	---	---	---	---	---	---
MW-2	09/27/91	168.14	---	0.15	---	---	---	---	---	---	---	---	---
MW-2	12/18/91	168.14	---	0.36	---	---	---	---	---	---	---	---	---
MW-2	04/01/91	168.14	15.21	0.10	153.01	---	---	---	---	---	---	---	---
MW-2	07/03/92	168.14	20.93	0.03	147.23	---	---	---	---	---	---	---	---
MW-2	10/05/92	168.14	22.74	0.21	145.56	---	---	---	---	---	---	---	---
MW-2	01/13/93	168.14	15.55	0.02	152.61	---	---	---	---	---	---	---	---
MW-2	04/23/93	168.14	16.54	0.21	151.76	---	---	---	---	---	---	---	---
MW-2	07/12/93	168.14	20.46	0.06	147.73	---	---	---	---	---	---	---	---
MW-2	10/21/93	168.14	24.91	0.31	143.46	---	---	---	---	---	---	---	---
MW-2	01/21/94	168.14	21.20	---	146.94	---	---	---	---	---	---	---	---
MW-2	04/20/94	168.14	22.44	---	145.70	1800	140	370	54	290	1.7	1.7	PACE
MW-2	08/01/94	168.14	22.24	0.04	145.93	---	---	---	---	---	---	---	---
MW-2	12/23/94	168.14	16.25	0.03	151.91	---	---	---	---	---	---	---	---
MW-2	01/26/95	168.14	14.55	0.39	153.88	---	---	---	---	---	---	---	---
MW-2	06/08/95	168.14	21.18	0.43	147.28	---	---	---	---	---	---	---	---
MW-2	08/22/95	168.14	22.76	0.36	145.65	---	---	---	---	---	---	---	---
MW-2	10/27/95	168.14	23.61	0.30	144.76	---	---	---	---	---	---	---	---
MW-2	01/25/96	168.14	15.95	0.15	152.30	---	---	---	---	---	---	---	---
MW-2	04/19/96	168.14	17.33	0.07	150.86	---	---	---	---	---	---	---	---
MW-2	07/23/96	168.14	21.25	0.05	146.93	---	---	---	---	---	---	---	---
MW-2	11/11/96	168.14	22.27	0.01	145.88	---	---	---	---	---	---	---	---
MW-2	01/21/97	168.14	15.19	0.01	152.96	---	---	---	---	---	---	---	---
MW-2	04/29/97	168.14	20.22	0.01	147.93	---	---	---	---	---	---	---	---
MW-2	04/30/97	168.14	---	---	---	130000	4600	15000	6000	37000	ND<5000	5.0	SPL
MW-2	08/21/97	168.14	21.74	0.01	146.41	110000	6000	16000	4700	28000	ND<500	4.6	SPL
MW-2	11/05/97	168.14	21.61	0.01	146.54	120000	7800	18000	4900	28100	ND<2500	4.6	SPL
MW-2	02/03/98	168.14	11.51	---	156.63	75000	590	1500	1800	12800	ND<2500	4.5	SPL
MW-2	05/28/98	168.14	16.51	0.00	151.63	79000	3900	3100	3100	18000	900	4.3	SPL

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3201 35TH STREET, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-024

WELL ID		DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)		DO (ppm)	LAB
MW-3		07/09/90	167.17	---	---	---	140	5.3	4.6	2.0	3.8	---		---	---
MW-3		12/21/90	167.17	---	---	---	0.19	100	6.0	0.9	27	---		---	---
MW-3		03/07/91	167.17	17.40	---	149.77	0.4	69	22	6.1	57	---		---	---
MW-3		06/27/91	167.17	---	---	---	380	28	26	13	46	---		---	---
MW-3		09/27/91	167.17	---	---	---	0.07	7.9	ND	0.4	1.1	---		---	---
MW-3		12/18/91	167.17	---	---	---	0.26	34	24	0.8	28	---		---	---
MW-3		04/01/91	167.17	13.69	---	153.48	ND	ND	ND	ND	ND	---		---	---
MW-3		07/03/92	167.17	19.59	---	147.58	71	9.4	0.9	5.0	13	---		---	ANA
MW-3		10/05/92	167.17	21.22	---	145.95	67	5.1	1.1	6.1	8.1	---		---	ANA
QC-1	(c)	10/05/92	---	---	---	---	ND<50	2.2	ND<0.5	1.5	2.8	---		---	ANA
MW-3		01/13/93	167.17	13.63	---	153.54	830	50	34	42	89	---		---	PACE
MW-3		04/23/93	167.17	15.02	---	152.15	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---		---	PACE
QC-1	(c)	04/23/93	---	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---		---	PACE
MW-3		07/12/93	167.17	19.16	---	148.01	250	12	4.2	12	16	---		---	PACE
MW-3		10/21/93	167.17	21.81	---	145.36	52	4.4	1.4	4.7	3.3	---		---	PACE
QC-1	(c)	10/21/93	---	---	---	---	65	7.4	1.0	6.9	4.2	---		---	PACE
MW-3		01/21/94	167.17	19.94	---	147.23	57	3.0	3.4	3.6	9.0	---		---	PACE
MW-3		04/20/94	167.17	20.24	---	146.93	600	26	23	33	88	---		1.8	PACE
MW-3		08/01/94	167.17	20.74	---	146.43	99	6.2	1.1	4.5	5.2	---		1.4	PACE
QC-1	(c)	08/01/94	---	---	---	---	120	7.7	1.6	5.9	6.7	---		---	PACE
MW-3		12/23/94	167.17	14.70	---	152.47	ND<50	ND<0.5	0.78	ND<0.5	ND<0.5	---		1.7	PACE
QC-1	(c)	12/23/94	---	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---		---	PACE
MW-3		01/26/95	167.17	12.89	---	154.28	190	16	0.5	35	24	---		6.6	ATI
MW-3		06/08/95	167.17	19.95	---	147.22	330	21	4.0	34	32	---		7.0	ATI
MW-3		08/22/95	167.17	21.41	---	145.76	150	14	ND<0.50	ND<0.50	1.6	ND<5.0	(d)	6.6	ATI
MW-3		10/27/95	167.17	22.43	---	144.74	---	---	---	---	---	---		---	---
MW-3		10/30/95	167.17	---	---	---	51	2.4	ND<0.50	ND<0.50	ND<1.0	ND<5.0		6.9	ATI
MW-3		01/25/96	167.17	14.03	---	153.14	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	5.1		---	CEI
MW-3		04/19/96	167.17	15.26	---	151.91	460	55	4	33	63	ND<10		9.4	SPL
MW-3		07/23/96	167.17	19.19	---	147.98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<10		9.2	SPL
MW-3		11/11/96	167.17	20.24	---	146.93	ND<250	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50		8.4	SPL
MW-3		01/21/97	167.17	13.09	---	154.08	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		5.4	SPL
MW-3		04/29/97	167.17	18.14	---	149.03	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		4.3	SPL
MW-3		08/21/97	167.17	19.64	---	147.53	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		4.9	SPL
MW-3		11/05/97	167.17	19.95	---	147.22	ND<250	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50		4.5	SPL
MW-3		02/03/98	167.17	10.57	---	156.60	ND<50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<10		4.7	SPL
MW-3		05/28/98	167.17	14.65	---	152.52	330	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50		4.2	SPL

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ALISTO PROJECT NO. 10-024

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

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
BP OIL COMPANY SERVICE STATION NO. 11132
3201 35TH STREET, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-024

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

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
BP OIL COMPANY SERVICE STATION NO. 11132
3201 35TH STREET, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-024

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

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
BP OIL COMPANY SERVICE STATION NO. 11132
3201 35TH STREET, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-024

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

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
BP OIL COMPANY SERVICE STATION NO. 11132
3201 35TH STREET, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-024

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

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
BP OIL COMPANY SERVICE STATION NO. 11132
3201 35TH STREET, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-024

WELL ID		DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)		DO (ppm)	LAB
MW-9		03/07/91	166.20	16.79	—	149.41	7.1	220	4	2.4	2400	—		—	—
MW-9		06/27/91	166.20	—	—	—	3600	520	400	85	310	—		—	—
MW-9		09/27/91	166.20	—	—	—	3.2	720	150	50	180	—		—	—
MW-9		12/18/91	166.20	—	—	—	ND	2.5	1.1	0.3	5.8	—		—	—
MW-9		04/01/91	166.20	12.89	—	153.31	12000	2000	2600	360	1600	—		—	—
MW-9		07/03/92	166.20	18.89	—	147.31	5700	17000	840	230	800	—		—	ANA
MW-9		10/05/92	166.20	20.52	—	145.68	1400	440	17	14	100	—		—	ANA
MW-9		01/13/93	166.20	12.92	—	153.28	11000	1200	1700	340	1400	—		—	PACE
QC-1	(c)	01/13/93	—	—	—	0.00	11000	1200	1600	330	1300	—		—	PACE
MW-9		04/23/93	166.20	14.08	—	152.12	24000	2800	4500	730	3400	—		—	PACE
MW-9		07/12/93	166.20	18.44	—	147.76	13000	1400	1100	360	1400	—		—	PACE
QC-1	(c)	07/12/93	—	—	—	—	10000	1200	900	310	1200	—		—	PACE
MW-9		10/21/93	166.20	21.81	0.89	145.06	—	—	—	—	—	—		—	—
MW-9		01/21/94	166.20	19.28	—	146.92	—	—	—	—	—	—		—	—
MW-9		04/20/94	166.20	19.72	—	146.48	43000	2800	6800	1300	7900	—		1.7	PACE
QC-1	(c)	04/20/94	—	—	—	—	45000	2700	6800	1200	8200	740	(d)	—	PACE
MW-9		08/01/94	166.20	20.18	0.05	146.06	—	—	—	—	—	—		—	—
MW-9		12/23/94	166.20	14.22	0.02	152.00	—	—	—	—	—	—		—	—
MW-9		01/26/95	166.20	11.85	0.13	154.45	—	—	—	—	—	—		—	—
MW-9		06/08/95	166.20	18.33	0.80	148.47	—	—	—	—	—	—		—	—
MW-9		08/22/95	166.20	19.95	0.01	146.26	—	—	—	—	—	—		—	—
MW-9		10/27/95	166.20	20.88	0.01	145.33	—	—	—	—	—	—		—	—
MW-9		01/25/96	166.20	13.84	0.07	152.41	—	—	—	—	—	—		—	—
MW-9	(e)	04/19/96	166.20	—	—	—	—	—	—	—	—	—		—	—
MW-9		07/23/96	166.20	18.84	0.03	147.38	—	—	—	—	—	—		—	—
MW-9		11/11/96	166.20	19.91	0.01	146.30	—	—	—	—	—	—		—	—
MW-9		01/21/97	166.20	12.93	0.01	153.28	—	—	—	—	—	—		—	—
MW-9		04/29/97	166.20	18.03	SHEEN	148.17	—	—	—	—	—	—		—	—
MW-9		04/30/97	166.20	—	—	—	78000	1900	3600	3100	20600	ND<5000		5.5	SPL
MW-9		08/21/97	166.20	19.56	0.01	146.65	110000	2100	3400	2300	18800	ND<500		5.1	SPL
MW-9		11/05/97	166.20	20.59	0.01	145.62	59000	1400	1700	2200	17000	ND<500		4.5	SPL
MW-9		02/03/98	166.20	10.56	—	155.64	55000	490	1200	1400	10200	ND<1000		4.9	SPL
MW-9		05/28/98	166.20	14.21	0.01	152.00	41000	250	1200	1500	11400	ND<250		3.8	SPL
QC-1	(c)	05/28/98	—	—	—	—	53000	290	830	1400	10500	ND<500		—	SPL

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
BP OIL COMPANY SERVICE STATION NO. 11132
3201 35TH STREET, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-024

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-10	03/07/91	167.01	18.09	—	148.92	1.6	120	190	32	230	—	—	—
MW-10	06/27/91	167.01	—	—	—	12000	7300	500	150	300	—	—	—
MW-10	09/27/91	167.01	—	—	—	57	12000	7200	1400	4600	—	—	—
MW-10	12/18/91	167.01	—	—	—	5.3	2500	120	36	79	—	—	—
MW-10	04/01/91	167.01	13.92	—	153.09	ND	ND	ND	ND	ND	—	—	—
MW-10	07/03/92	167.01	19.92	—	147.09	8600	5100	1300	180	690	—	—	ANA
MW-10	10/05/92	167.01	21.92	0.19	145.23	—	—	—	—	—	—	—	—
MW-10	01/13/93	167.01	14.43	0.03	152.60	—	—	—	—	—	—	—	—
MW-10	04/23/93	167.01	15.26	0.06	151.80	—	—	—	—	—	—	—	—
MW-10	07/12/93	167.01	19.78	0.45	147.57	—	—	—	—	—	—	—	—
MW-10	10/21/93	167.01	22.90	0.69	144.63	—	—	—	—	—	—	—	—
MW-10	01/21/94	167.01	20.25	0.06	146.81	—	—	—	—	—	—	—	—
MW-10	04/20/94	167.01	20.74	—	146.27	100000	12000	24000	2400	14000	1600 (d)	1.0	PACE
MW-10	08/01/94	167.01	22.00	0.28	145.22	—	—	—	—	—	—	—	—
MW-10	12/23/94	167.01	16.08	0.25	151.12	—	—	—	—	—	—	—	—
MW-10	01/26/95	167.01	13.68	0.80	153.93	—	—	—	—	—	—	—	—
MW-10	06/08/95	167.01	19.08	0.75	148.49	—	—	—	—	—	—	—	—
MW-10	08/22/95	167.01	20.73	0.70	146.81	—	—	—	—	—	—	—	—
MW-10	10/27/95	167.01	21.69	0.63	145.79	—	—	—	—	—	—	—	—
MW-10	01/25/96	167.01	15.05	0.81	152.57	—	—	—	—	—	—	—	—
MW-10	04/19/96	167.01	16.26	0.58	151.19	—	—	—	—	—	—	—	—
MW-10	07/23/96	167.01	20.18	0.62	147.30	—	—	—	—	—	—	—	—
MW-10	11/11/96	167.01	21.20	0.20	145.96	—	—	—	—	—	—	—	—
MW-10	01/21/97	167.01	13.66	0.14	153.46	—	—	—	—	—	—	—	—
MW-10	04/29/97	167.01	18.71	0.21	148.30	—	—	—	—	—	—	—	—
MW-10	04/30/97	167.01	—	—	—	170000	9700	38000	4700	30500	ND<5000	5.6	SPL
MW-10	08/21/97	167.01	20.19	0.14	146.93	170000	9500	35000	4300	27100	ND<5000	5.3	SPL
MW-10	11/05/97	167.01	20.52	0.02	146.51	80000	3800	12000	2700	15700	ND<500	4.4	SPL
MW-10	02/03/98	167.01	10.62	0.01	156.40	—	—	—	—	—	—	—	—
MW-10	02/04/98	—	—	0.00	—	72000	500	1300	1700	12000	ND<1000	5.1	SPL
MW-10	05/28/98	167.01	15.46	0.00	151.55	220000	3200	24000	5200	43000	ND<1000	4.8	SPL

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
BP OIL COMPANY SERVICE STATION NO. 11132
3201 35TH STREET, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-024

WELL ID		DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)		DO (ppm)	LAB
RW-1		07/09/90	168.01	---	1.21	---	---	---	---	---	---	---		---	---
RW-1		12/21/90	168.01	---	0.01	---	---	---	---	---	---	---		---	---
RW-1		03/07/91	168.01	17.62	SHEEN	150.39	---	---	---	---	---	---		---	---
RW-1		06/27/91	168.01	---	0.04	---	---	---	---	---	---	---		---	---
RW-1		09/27/91	168.01	---	0.02	---	---	---	---	---	---	---		---	---
RW-1		12/18/91	168.01	---	0.02	---	---	---	---	---	---	---		---	---
RW-1		04/01/91	168.01	14.40	0.11	153.69	---	---	---	---	---	---		---	---
RW-1		07/03/92	168.01	20.66	SHEEN	147.35	---	---	---	---	---	---		---	---
RW-1		10/05/92	168.01	23.34	0.08	144.73	---	---	---	---	---	---		---	---
RW-1		01/13/93	168.01	16.59	0.05	151.46	---	---	---	---	---	---		---	---
RW-1		04/23/93	168.01	16.17	0.18	151.98	---	---	---	---	---	---		---	---
RW-1		07/12/93	168.01	20.18	0.06	147.88	---	---	---	---	---	---		---	---
RW-1		10/21/93	168.01	25.70	0.56	142.73	---	---	---	---	---	---		---	---
RW-1		01/21/94	168.01	21.24	0.40	147.07	---	---	---	---	---	---		---	---
RW-1		04/20/94	168.01	32.20	---	135.81	---	---	---	---	---	---		---	---
RW-1		08/01/94	168.01	21.70	---	146.31	29000	580	950	300	7800	1200	(d)	1.1	PACE
RW-1		12/23/94	168.01	16.02	---	151.99	1300	25	8.6	1.4	69	---		1.8	PACE
RW-1		01/26/95	168.01	13.78	---	154.23	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	---		---	ATI
QC-1	(c)	01/26/95	---	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	---		---	ATI
RW-1		06/08/95	168.01	20.05	---	147.96	1300	130	ND<1.0	ND<1.0	36	---		---	ATI
RW-1		08/22/95	168.01	21.74	---	146.27	3300	230	13	4.9	280	ND<25	(d)	6.6	ATI
QC-1	(c)	08/22/95	---	---	---	---	2800	210	9.3	4.3	250	ND<25	(d)	---	ATI
RW-1		10/27/95	168.01	32.00	---	136.01	---	---	---	---	---	---		---	---
RW-1		10/30/95	168.01	---	---	---	230	1.4	ND<1.0	ND<1.0	ND<2.0	650		6.9	ATI
QC-1	(c)	10/30/95	---	---	---	---	240	1.6	ND<1.0	ND<1.0	ND<2.0	630		---	ATI
RW-1		01/25/96	168.01	15.41	---	152.60	15000	3400	930	330	2500	5300		---	CEI
RW-1		04/19/96	168.01	16.83	---	151.18	35000	5500	3300	1700	9400	14000		7.6	SPL
QC-1	(c)	04/19/96	---	---	---	---	33000	5600	3200	1700	8800	15000		---	SPL
RW-1		07/23/96	168.01	20.76	---	147.25	46000	3600	2300	900	5100	36000		7.4	SPL
QC-1	(c)	07/23/96	---	---	---	---	47000	3700	2500	930	5300	35000		---	SPL
RW-1		11/11/96	168.01	21.73	---	146.28	34000	3000	1200	880	4600	22000		8.3	SPL
QC-1	(c)	11/11/96	---	---	---	---	31000	2900	1000	860	4600	22000		---	SPL
RW-1		01/21/97	168.01	14.20	---	153.81	260	40	16	2.7	34	1500		6.1	SPL
QC-1	(c)	01/21/97	---	---	---	---	270	42	17	2.7	36	1500		---	SPL
RW-1		04/29/97	168.01	19.15	---	148.86	32000	3100	590	1300	6000	46000		5.3	SPL
RW-1		08/21/97	168.01	20.67	---	147.34	7600	730	58	370	1780	9500		4.7	SPL
RW-1		11/05/97	168.01	21.01	---	147.00	39000	2300	86	1300	3840	56000		4.5	SPL
RW-1		02/03/98	168.01	10.68	---	157.33	3400	31	11	29	161	3200		5.1	SPL
RW-1		05/28/98	168.01	15.55	---	152.46	2000	90	15	60	305	2700		4.3	SPL

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
BP OIL COMPANY SERVICE STATION NO. 11132
3201 35TH STREET, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-024

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

ABBREVIATIONS:

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

NOTES:

(a) Casing elevations surveyed to the nearest 0.01 foot relative to mean sea level.

(b) Groundwater elevations adjusted assuming a specific gravity of 0.75 for free product.

(c) Blind duplicate.

(d) A copy of the documentation for this data is included in Appendix C of Alisto report 10-024-10-001.

(e) Well inaccessible.

(f) Travel blank.

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TABLE 2 - PRODUCT REMOVAL STATUS
BP OIL COMPANY SERVICE STATION NO. 11132
3201 35TH STREET, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-024

WELL ID	DATE	PRODUCT THICKNESS (Feet)	PRODUCT REMOVED (Gallons)	PRODUCT REMOVED CUMULATIVE (Gallons)
MW-1	01/26/95	1.1	3.00	3 00
	06/08/95	1.2	0.60	3.60
	06/28/95	---	0.10	3.70
	08/22/95	0.85	0.15	3.85
	10/30/95	0.69	0 11	3.96
	01/25/96	1.4	1.00	4.96
	02/16/95	---	0 08	5.04
	04/19/96	1.22	0.75	5.79
	07/23/96	0.89	0.00	5.79
	11/11/96	0.98	0.98	6.77
	01/21/97	0 9	0 20	6.97
	04/29/97	0.85	0.25	7.22
	08/21/97	0.87	0.15	7 37
	11/05/97	0.54	0.25	7 62
	02/03/98	0.32	0.25	7.87
	05/06/98	0.47	0.25	8.12
	05/13/98	0.1	<0.1	8.12
	05/24/98	0.19	<0.1	8.12
	05/27/98	0.15	<0.1	8.12
	05/28/98	0 17	0 20	8.32
	06/22/98	0.15	0.25	8 57
	07/02/98	0 15	0 10	8.42
	07/09/98	0 2	0 10	8.67
	07/14/98	0.11	<0.1	8 67
	07/30/98	0.1	<0 1	8 67
MW-2	09/29/93	---	0.10	0.10
	10/05/93	---	0.10	0.20
	10/14/93	---	0 10	0.30
	10/20/93	0.31	0 25	0.55
	11/02/93	---	0.10	0 65
	12/07/93	---	0.05	0.70
	12/17/93	---	<0.01	0.70
	12/23/93	---	0.30	1.00
	01/12/94	---	0 05	1.05
	02/02/94	---	0.01	1.06
	02/11/94	---	0 01	1.07
	03/18/94	---	<0.01	1.07
	08/01/94	0.04	---	1.07
	10/26/94	---	0.10	1.17
	11/12/94	---	0.10	1.27
	12/12/94	---	0.03	1.30
	12/23/94	0.03	---	1.30
	01/26/95	0.39	0.20	1 50
	06/08/95	0.43	<0.10	1.50
	06/28/95	---	0.05	1.55
	08/22/95	0.36	0.10	1 65
	10/30/95	0.3	0.05	1 70
	01/25/96	0 15	<0 10	1.70
	02/16/95	---	<0.10	1.70
	04/19/96	0.07	<0.10	1.70
	07/23/96	0.05	<0.10	1.70
	11/11/96	0 01	<0.10	1.70
	01/21/97	0.01	<0.10	1.70
	04/29/97	0 01	<0 10	1.70
	08/21/98	0.01	<0 10	1.70
	11/05/97	0.01	<0.10	1.70
	02/03/98	0 00	<0.10	1 70
	05/28/98	Globules	<0.10	1.70

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3201 35TH STREET, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-024

WELL ID	DATE	PRODUCT THICKNESS (Feet)	PRODUCT REMOVED (Gallons)	PRODUCT REMOVED CUMULATIVE (Gallons)
MW-8				
	07/12/93	Iridescence	---	---
	10/21/93	0 95	---	---
	11/02/93	---	0.25	0.25
	11/10/93	---	0.10	0.35
	11/16/93	---	0.10	0 45
	11/23/93	---	0.10	0.55
	11/30/93	---	0.10	0.65
	12/17/93	---	<0.10	0.65
	12/23/93	---	<0.10	0 65
	01/12/94	---	<0.10	0.65
	01/21/94	0.03	---	0 65
	02/02/94	---	0.05	0 7
	02/11/94	---	0 08	0.78
	02/18/94	---	0.10	0.88
	03/18/94	---	<0 10	0 88
	04/20/94	0.03	---	0.88
	04/27/94	---	0.10	0.98
	05/27/94	---	0.10	1.08
	10/26/94	---	0.10	1.18
	11/12/94	---	<0.10	1.18
	12/12/94	---	<0.10	1.18
	12/23/94	0 03	<0.10	1.18
	06/08/95	0.29	0 10	1.28
	08/22/95	0.2	0 05	1 33
	10/27/95	0.14	<0.10	1.33
	10/30/95	---	0.02	1 35
	01/25/96	0.22	0.05	1.4
	02/16/95	---	0 1	1.5
	04/19/96	0.2	0.25	1.75
	07/23/96	0.14	<0.10	1.75
	11/11/96	0.02	<0.10	1.75
	01/21/97	0.01	<0.10	1.75
	08/21/97	Iridescence	---	1.75
	11/05/97	0.1	0.10	1 85
	02/03/98	0 03	<0.10	1.85
	05/06/98	0.05	<0 10	1 85
	05/28/98	(a)	---	1.85
MW-9	10/21/93	0.89	---	---
	11/02/93	---	0.10	0.10
	11/10/93	---	0.10	0.20
	11/16/93	---	0 10	0 30
	12/23/93	---	0 10	0.40
	01/12/94	---	<0.10	0.40
	01/20/93	---	0.05	0.45
	02/02/94	---	0.05	0.50
	02/11/94	---	<0.10	0.50
	02/18/94	---	0 10	0 60
	03/18/94	---	0.10	0.70
	08/01/94	0.05	---	0 70
	10/26/94	---	0.15	0 85
	11/12/94	---	0.10	0.95
	12/12/94	---	0.10	1 05
	12/23/94	0.02	---	1.05
	01/26/95	---	0 10	1.15
	06/28/95	---	0.10	1.25
	08/22/95	---	0.10	1.35
	10/30/95	---	0.10	1.45
	01/25/96	0.13	0.10	1.55
	02/16/95	---	0.10	1 65
	06/08/95	0 8	---	1.65
	08/22/95	0.01	---	1.65
	10/27/95	0.01	---	1 65
	01/25/96	0 07	---	1.65
	04/19/96	(a)	---	1 65
	07/23/96	0.03	<0.10	1.65
	11/11/96	0.01	<0.10	1.65
	01/21/97	0.01	<0 10	1.65
	04/29/97	Iridescence	<0.10	1.65
	08/27/97	0.01	---	1.65
	11/05/97	0.01	0.10	1.75
	02/03/98	---	<0.10	1 75
	05/13/98	0.02	<0.10	1.75
	05/24/98	0.01	<0.10	1.75
	05/27/98	0.01	<0 10	1 75
	05/28/98	0.01	<0.10	1.75
	06/22/98	0.01	<0 10	1 75
	07/02/98	0.01	<0 10	1.75
	07/09/98	0 01	<0.10	1.75
	07/14/98	0.01	<0.10	1.75

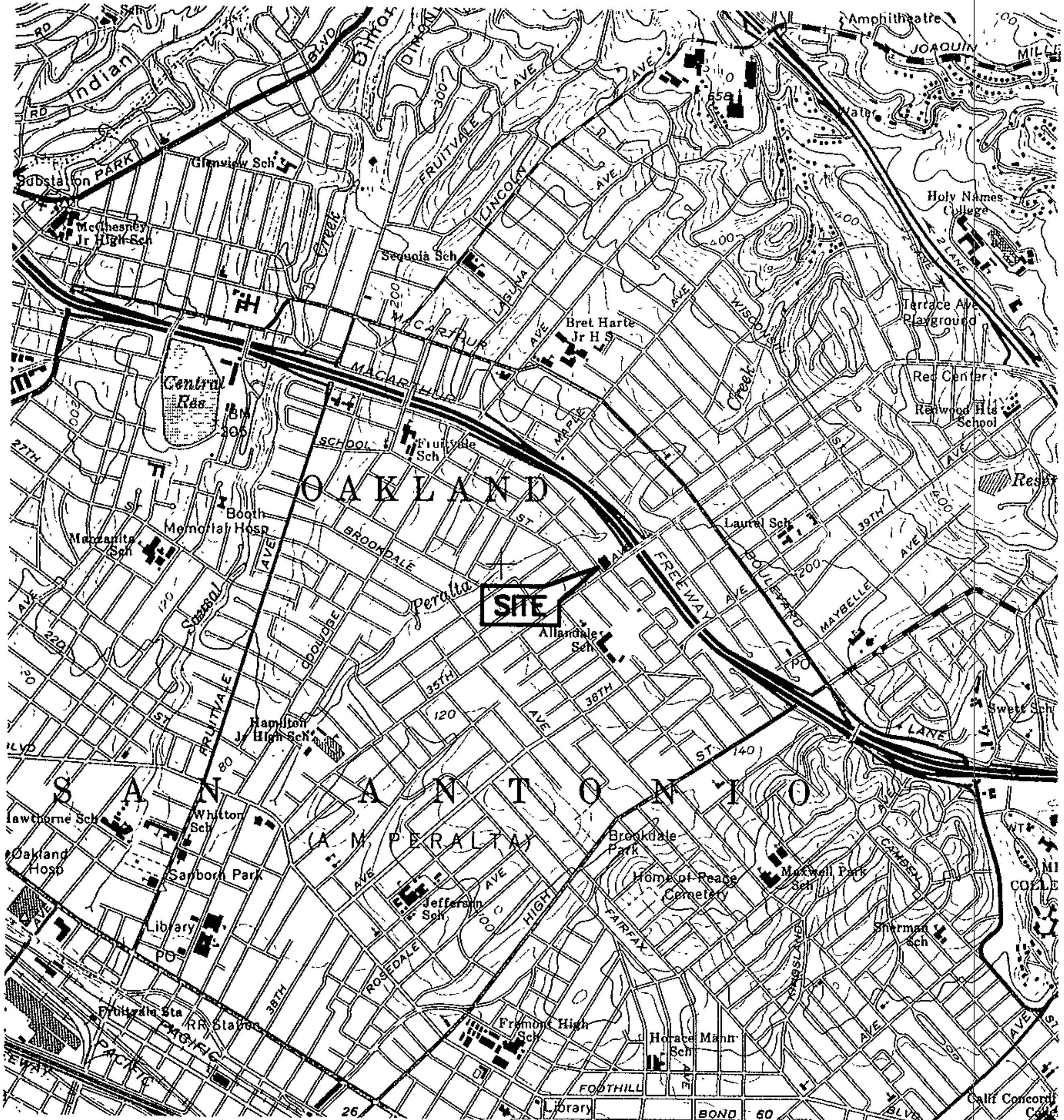
TABLE 2 - PRODUCT REMOVAL STATUS
BP OIL COMPANY SERVICE STATION NO 11132
3201 35TH STREET, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-024

WELL ID	DATE	PRODUCT THICKNESS (Feet)	PRODUCT REMOVED (Gallons)	PRODUCT REMOVED CUMULATIVE (Gallons)
MW-10	09/07/93	---	0 10	0 10
	09/14/93	---	0.10	0 20
	09/29/93	---	0.10	0.30
	10/05/93	---	1 60	1 90
	10/14/93	---	2 10	4.00
	10/20/93	---	1 00	5 00
	10/21/93	0.69	---	5.00
	10/27/93	---	1.00	6.00
	11/02/93	---	0 30	6 30
	11/10/93	---	0 20	6 50
	11/16/93	---	0.10	6.60
	11/23/93	---	0.10	6.70
	11/30/93	---	0.30	7.00
	12/07/93	---	0.20	7.20
	12/17/93	---	0.30	7.50
	12/23/93	---	<0.10	7 50
	01/04/94	---	<0.10	7.50
	01/12/94	---	0.10	7.60
	01/20/94	---	0.20	7.80
	01/21/94	0.06	---	7.80
	02/02/94	---	0.10	7.90
	02/11/94	---	0.10	8.00
	02/18/94	---	0 20	8 20
	05/27/94	---	<0.10	8.20
	08/01/94	0.28	---	8.20
	10/26/94	---	0 60	8.80
	11/12/94	---	0.40	9.20
	12/12/94	---	0 20	9.40
	12/23/94	0.25	---	9 40
	01/26/95	0.8	0.10	9.50
	06/08/95	0.75	---	9.50
	06/28/95	---	0.10	9.60
	08/22/95	0.7	0 15	9.75
	10/27/95	0.63	---	9.75
	10/30/95	---	0.10	9.85
	01/25/96	0.81	0.25	10.10
	02/16/95	---	0.10	10 20
	04/19/96	---	0 50	10.70
	07/23/96	0.62	<0.10	10.70
	11/11/96	0.2	0.20	10.90
	01/21/97	0.14	<0.03	10.90
	04/29/97	0 21	0.04	10 94
	08/21/97	0.14	---	10.94
	11/05/97	0.02	<0.10	10.94
	02/03/98	0.1	<0.10	10.94
	05/06/98	0.02	<0.10	10.94
	05/13/98	Sheen	<0 10	10.94
	05/28/98	Globules	<0.10	10.94

NOTE:
(a) Well inaccessible.

F:\0\10-024\PRODUCT.WQ2



SOURCE:
USGS MAP, OAKLAND EAST QUADRANGLE, CALIFORNIA. 7.5 MINUTE SERIES. 1959. PHOTOREVISED 1980.

N

QUADRANGLE LOCATION

0 1000' 2000'

FIGURE 1

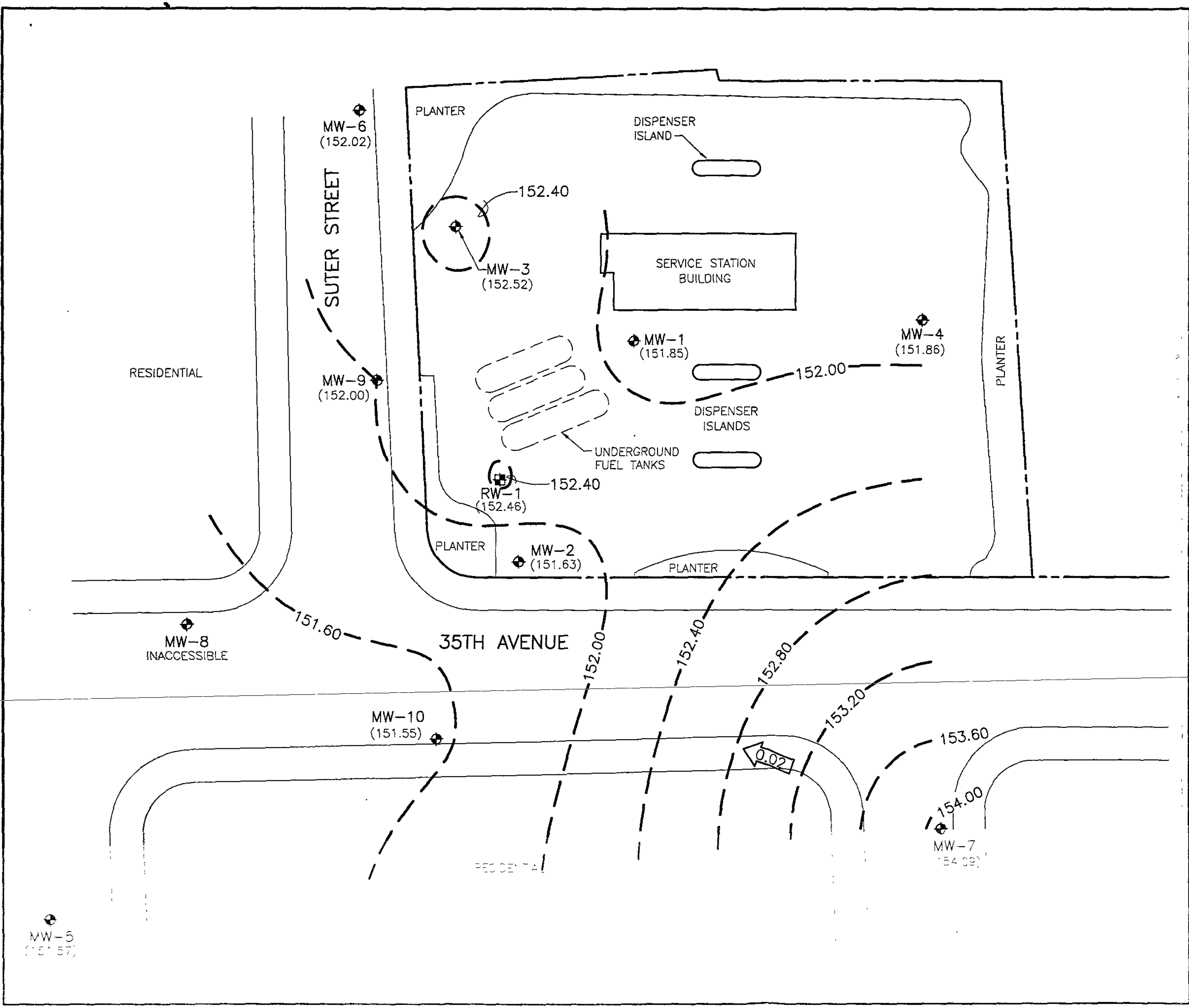
SITE VICINITY MAP

BP OIL SERVICE STATION NO. 11132
3201 35TH STREET
OAKLAND, CALIFORNIA

PROJECT NO. 10-024

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

10024B--DWG 2-28-94 RKW 1=1



N

0 30 60

SCALE IN FEET

LEGEND

- GROUNDWATER MONITORING WELL
- GROUNDWATER RECOVERY WELL
- (151.55) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- 151.60 GROUNDWATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL (CONTOUR INTERVAL–0.40 FOOT)
- 0.02 CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE IN FOOT PER FOOT

NOTE:
Potentiometric groundwater elevation contours were generated with Quicksurf using the Kriging method with a spherical variogram on a triangulated grid surface.

FIGURE 2

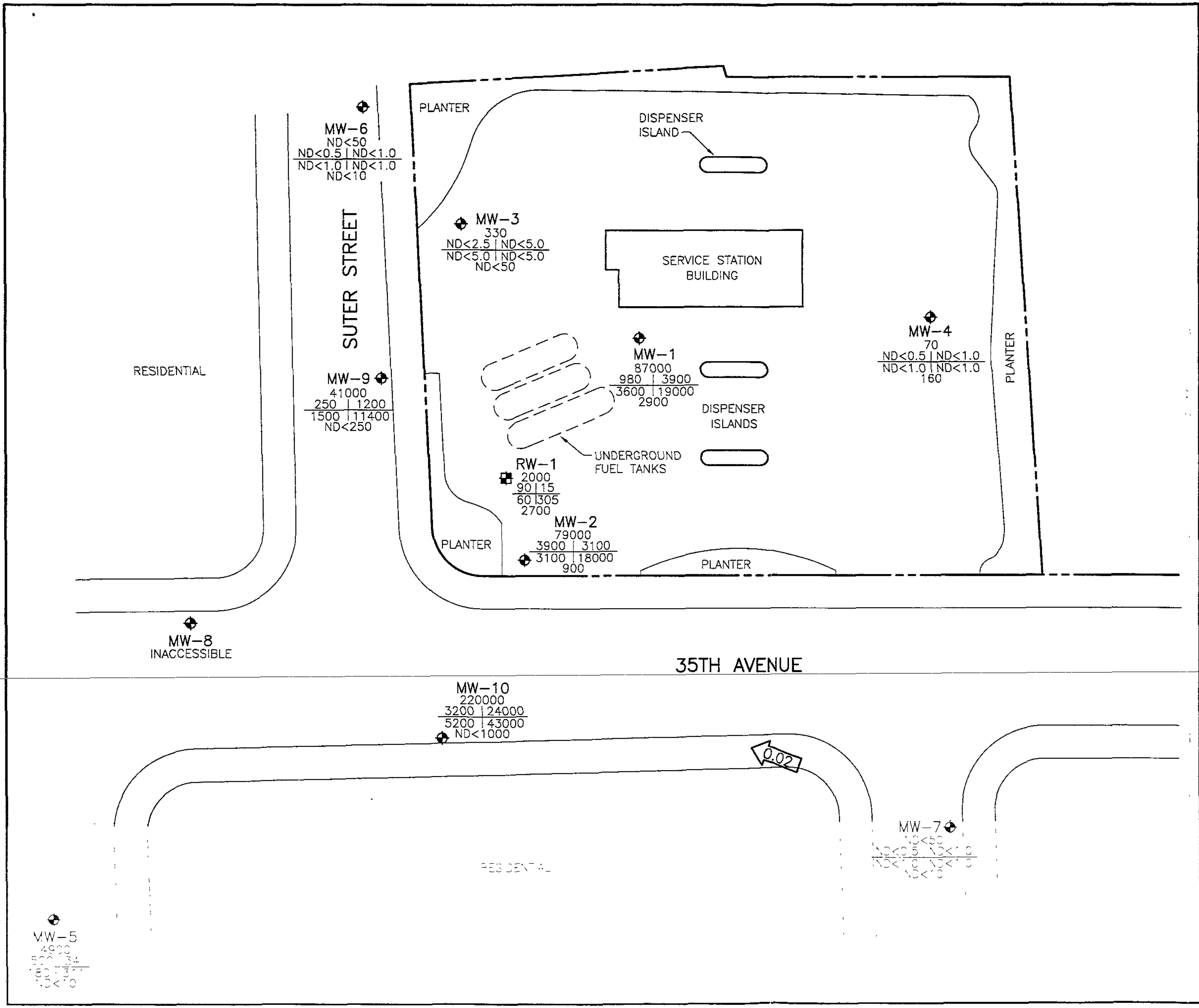
POTENTIOMETRIC GROUNDWATER ELEVATION CONTOUR MAP

MAY 28, 1998

BP OIL SERVICE STATION NO. 11132
3201 35TH STREET
OAKLAND, CALIFORNIA

PROJECT NO. 10-024

ALISTO ENGINEERING GROUP



N

0 30 60

SCALE IN FEET

LEGEND

- GROUNDWATER MONITORING WELL
- GROUNDWATER RECOVERY WELL
- TPH-G / B | T / E | X / MTBE — CONCENTRATION OF CONSTITUENTS IN MICROGRAMS PER LITER
- TPH-G — TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
- B — BENZENE
- T — TOLUENE
- E — ETHYLBENZENE
- X — TOTAL XYLENES
- MTBE — METHYL TERT BUTYL ETHER
- ND — NOT DETECTED ABOVE REPORTED DETECTION LIMIT
- 0.02 — CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE IN FOOT PER FOOT

FIGURE 3

CONCENTRATIONS OF PETROLEUM HYDROCARBONS IN GROUNDWATER

MAY 28, 1998

BP OIL SERVICE STATION NO. 11132
3201 35TH STREET
OAKLAND, CALIFORNIA

PROJECT NO. 10-024

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

APPENDIX A

WATER SAMPLING FIELD SURVEY FORMS

ALISTO

Field Report / Sampling Data Sheet

ENGINEERING
GROUP
1575 TREAT BOULEVARD, SUITE 201
WALNUT CREEK CA 94598 (510) 295-1650 FAX 295-1823

Project No. 10-024-10-004 Date: 5/28/98
Address 3201 35th Street Day: M T W TH F
Contract No. H177109 City: Oakland
Station No. BP 11132 Sampler: LCB

DEPTH TO GROUNDWATER SUMMARY

WELL ID	SAMPLE ID	WELL DIAM	TOTAL DEPTH	DEPTH TO WATER	PRODUCT THICKNESS	TIME MONITORED	COMMENTS:
MW-1	S-11	2"	40.0	18.03	.17	1121	Approx T.D. Due to presence of FP
MW-2	S-9	2"	40.0	16.51	Globules	1113	
MW-3	S-1	2"	34.58	~~15~~14.65	Ø	1022	
MW-4	S-4	2"	38.74	18.50		1041	SEMI-Sample This Round
MW-5	S-2	2"	30.88	13.57		1030	
MW-6	S-3	2"	34.56	13.38		1035	SEMI-Sample This Round
MW-7	S-5	2"	34.49	13.52		1059	SEMI-Sample This Round well Below Grade Heavy surface H2O Runoff
MW-8	S-10	2"	40.0	—	—	1117	~~Approx TD Due to FP~~ well covered by car Cannot find owner
MW-9	S-7	2"	40.0	14.21	.01	1106	PPRS Service PPRS, Approx T.D. Due to F.P.
MW-10	S-8	2"	40.0	15.46	Globules	1110	PPRS Service PPRS,
RW-1	S-6	6"	38.41	15.55	Ø	1103	~~QC-1 (S-12) From this well~~ / well has hoses pump in well But no 6" cap

Bu

FIELD INSTRUMENT CALIBRATION DATA

pH METER Icm 4.00 4 7.00 7 10.00 10 TEMPERATURE COMPENSATED Y N TIME 0850
D.O. METER ICm ZERO d.O. SOLUTION ____ BAROMETRIC PRESSURE ____ TEMP ____ WEATHER Rain
CONDUCTIVITY METER Icm 10,000 ____ TURBIDITY METER ____ 5.0 NTU ____ OTHER X
LEAK DETECTOR : ____ ALARM MODE X NON ALARM MODE

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Iridescence	Gal.	Time	Temp °F	pH	E.C.	D.O.
MW-3	14.65	2"	OK	Ø	Y N	3	1207	60.7	7.17	822µS	4.0
						7		61.7	7.09	841µS	
						10	1216	61.9	7.05	847µS	4.2

Total Depth - Water Level= x Well Vol. Factor= x#vol. to Purge PurgeVol.
34.58 - 14.65 = 19.93 x .16 = 3.19 x 3 = 9.57

Purge Method: X Surface Pump O Disp.Tube O Winch O Disp. Bailer(s)___ O Sys Port

Comments:

O EPA 601____
X TPH-G/BTEX___
O TPH Diesel____
O TOG 5520 ___

TIME/SAMPLE ID
1220

ALISTO

Field Report / Sampling Data Sheet

ENGINEERING
GROUP
1575 TREAT BOULEVARD, SUITE 201
WALNUT CREEK CA 94598 (510) 295-1650 FAX 295-1823

Project No. 10-024-10-004
Address 3201 35th Street
Contract No. H177109
Station No. BP 11132
Date: 5/28/98
Day: M T W TH F
City: Oakland
Sampler: LB

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Iridescence
MW-5	13.57	2"	OK	Ø	Y N

Total Depth - Water Level= x Well Vol. Factor= x#vol. to Purge PurgeVol.
30.88 - 13.57 = 17.31 X .16 = ~~13.4~~ 2.76 X 3 = 8.28

Purge Method: Surface Pump ODisp.Tube OWinch ODisp. Bailer(s)___ OSys Port
Comments:

Gal.	Time	Temp °F	pH	E.C.	D.O.
3	1232	59.7	7.39	1.17ms	3.8
6		60.6	7.22	1.29ms	
9	1240	61.4	7.16	1.39ms	4.1

O EPA 601___ ✗ TPH-G/BTEX___ O TPH Diesel___ O TOG 5520 ___

TIME/SAMPLE ID: 1244

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Iridescence
MW-6	13.38	2"	OK	Ø	Y N

Total Depth - Water Level= x Well Vol. Factor= x#vol. to Purge PurgeVol.
34.56 - 13.38 = 21.18 X .16 = 3.39 X 3 = 10.17

Purge Method: Surface Pump ODisp.Tube OWinch ODisp. Bailer(s)___ OSys Port
Comments:

Gal.	Time	Temp °F	pH	E.C.	D.O.
4	1256	60.6	7.29	877µs	3.6
8		61.9	7.20	910µs	
11	1310	62.3	7.15	913µs	3.7

O EPA 601___ ✗ TPH-G/BTEX___ O TPH Diesel___ O TOG 5520 ___

TIME/SAMPLE ID: 1313

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Iridescence
MW-4	18.50	2"	Replaced	Ø	Y N

Total Depth - Water Level= x Well Vol. Factor= x#vol. to Purge PurgeVol.
38.74 - 18.50 = 20.24 X .16 = 3.24 X 3 = 9.72

Purge Method: Surface Pump ODisp.Tube OWinch ODisp. Bailer(s)___ OSys Port
Comments:

Gal.	Time	Temp °F	pH	E.C.	D.O.
3	1331	60.9	7.47	787µs	4.4
7		61.3	7.31	822µs	
10	1342	62.2	7.24	829µs	4.2

O EPA 601___ ✗ TPH-G/BTEX___ O TPH Diesel___ O TOG 5520 ___

TIME/SAMPLE ID: 1342

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Iridescence
MW-7	13.52	2"	OK	Ø	Y N

Total Depth - Water Level= x Well Vol. Factor= x#vol. to Purge PurgeVol.
34.49 - 13.52 = 20.97 X .16 = 3.36 X 3 = 10.08

Purge Method: Surface Pump ODisp.Tube OWinch ODisp. Bailer(s)___ OSys Port
Comments:

Gal.	Time	Temp °F	pH	E.C.	D.O.
4	1352	61.4	7.61	1.11ms	4.0
8		61.9	7.33	1.19ms	
11	1403	62.4	7.27	1.26ms	4.3

O EPA 601___ ✗ TPH-G/BTEX___ O TPH Diesel___ O TOG 5520 ___

TIME/SAMPLE ID: 1407

ALISTO

Field Report / Sampling Data Sheet

ENGINEERING
GROUP
1575 TREAT BOULEVARD, SUITE 201
WALNUT CREEK CA 94598 (510) 295-1650 FAX 295-1823

Project No. 10-024-10-004 Date: 5/28/98
Address 3201 35th Street Day: M T W (TH) F
Contract No. H177109 City: Oakland
Station No. BP 11132 Sampler: LB

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Iridescence	Gal.	Time	Temp °F	pH	E.C.	D.O.	
RW-1	15.55	6"	OK	Ø	Y (N)	35	1430	58.7	7.71	1.27mS	4.1	O EPA 601
Total Depth - Water Level=		x Well Vol. Factor=		x#vol. to Purge	PurgeVol.	70		60.9	7.58	1.42mS		⊗ TPH-G/BTEX
38.41-15.55=22.86x1.47=33.60x3=100.80						101	1515	61.8	7.52	1.51mS	4.3	O TPH Diesel
Purge Method: ⊗Surface Pump ODisp.Tube OWinch ODisp. Bailer(s)___ OSys Port												O TOG 5520
Comments: Well has Pump Set up But No Cap												TIME/SAMPLE ID: 1520

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Iridescence	Gal.	Time	Temp °F	pH	E.C.	D.O.	
MW-9	14.21	2"	OK	14.20	Y N	4	1527	60.7	7.61	722µS	3.8	O EPA 601
Total Depth - Water Level=		x Well Vol. Factor=		x#vol. to Purge	PurgeVol.	8		61.8	7.30	737µS		⊗ TPH-G/BTEX
~ 40.00-14.21=25.79x.16=4.13x3=12.39						13	1537	62.4	7.22	742µS	3.8	O TPH Diesel
Purge Method: ⊗Surface Pump ODisp.Tube OWinch ODisp. Bailer(s)___ OSys Port												O TOG 5520
Comments: QC-1 (S-12) From this well												TIME/SAMPLE ID: 1540

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Iridescence	Gal.	Time	Temp °F	pH	E.C.	D.O.	
MW-10	15.46	2"	Replaced	Globules	(Y) N	4	1559	60.7	7.66	838µS	4.5	O EPA 601
Total Depth - Water Level=		x Well Vol. Factor=		x#vol. to Purge	PurgeVol.	8		61.3	7.43	842µS		⊗ TPH-G/BTEX
~ 40.00-15.46=24.54x.16=3.93x3=11.79						12	1607	61.9	7.40	847µS	4.8	O TPH Diesel
Purge Method: ⊗Surface Pump ODisp.Tube OWinch ODisp. Bailer(s)___ OSys Port												O TOG 5520
Comments: Removed <.10 gal FP												TIME/SAMPLE ID: 1612

MW-9 Removed <.10 gal FP

ALISTO

Field Report / Sampling Data Sheet

ENGINEERING
GROUP
1575 TREAT BOULEVARD, SUITE 201
WALNUT CREEK CA 94598 (510) 295-1650 FAX 295-1823

Project No. 10-024-10-004
Address 3201 35th Street
Contract No. H177109
Station No. BP 11132
Date: 5/28/97
Day: M T W TH F
City: Oakland
Sampler: LB

Well ID	Depth to Water	Diam	Cap/Lock	Product Dept	Iridescence	Gal.	Time	Temp °F	pH	E.C.	D.O.
MW-2	16.51	2"	Replaced	Globules	Y N	4	1626	61.3	7.47	1.17ms	3.9
						8		61.9	7.38	1.32ms	
						12	1633	62.4	7.29	1.36ms	4.3

Total Depth - Water Level= x Well Vol. Factor= x#vol. to Purge PurgeVol.
~40.00-16.51=23.49 X.16=3.76 X3= 11.28

Purge Method: OSurface Pump ODisp.Tube OWinch ODisp. Bailer(s)___ OSys Port

Comments: Removed < .10 gal FP

O EPA 601___ ☒ TPH-G/BTEX___ O TPH Diesel___ O TOG 5520 ___

TIME/SAMPLE ID: 1637

Well ID	Depth to Water	Diam	Cap/Lock	Product Dept	Iridescence	Gal.	Time	Temp °F	pH	E.C.	D.O.
MW-8					Y N						

Total Depth - Water Level= x Well Vol. Factor= x#vol. to Purge PurgeVol.
Well Covered by Car (for Sale) Cannot find owner

Purge Method: OSurface Pump ODisp.Tube OWinch ODisp. Bailer(s)___ OSys Port

Comments: Cannot Access

O EPA 601___ O TPH-G/BTEX___ O TPH Diesel___ O TOG 5520 ___

TIME/SAMPLE ID:

Well ID	Depth to Water	Diam	Cap/Lock	Product Dept	Iridescence	Gal.	Time	Temp °F	pH	E.C.	D.O.
MW-1	18.03	2"	OK	17.87	Y N	4	1650	60.7	7.31	810µs	3.6
						8		61.4	7.22	847µs	
						11	1701	62.1	7.13	859µs	3.8

Total Depth - Water Level= x Well Vol. Factor= x#vol. to Purge PurgeVol.
~40.00-18.03=21.97X.16=3.52X3= 10.56

Purge Method: OSurface Pump ODisp.Tube OWinch ODisp. Bailer(s)___ OSys Port

Comments: Removed ~ .20 gal FP

O EPA 601___ O TPH-G/BTEX___ O TPH Diesel___ O TOG 5520 ___

TIME/SAMPLE ID: 1704

APPENDIX B

LABORATORY REPORT AND CHAIN OF CUSTODY RECORD

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

June 12, 1998

Scott Hooton
BP OIL COMPANY
295 SW 41st St., Bldg 13, Suite N
Renton, WA 98055

The following report contains analytical results for the sample(s) received at Southern Petroleum Laboratories (SPL) on June 4, 1998. The sample(s) was assigned to Certificate of Analysis No.(s) 9806234 and analyzed for all parameters as listed on the chain of custody.

Any data flag or quality control exception associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s).

If you have any questions or comments pertaining to this data report, please do not hesitate to contact me. Please reference the above Certificate of Analysis No. during any inquiries.

Again, SPL is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Southern Petroleum Laboratories

RECEIVED
JUN 18 1998

Joel Grice
Project Manager

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Southern Petroleum Laboratories, Inc.

Certificate of Analysis Number: 98-06-234

Approved for Release by:

Joel Grice, Project Manager

Date: 6/12/98

Greg Grandits
Laboratory Director

Cynthia Schreiner
Quality Assurance Officer

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Certificate of Analysis No. H9-9806234-01

BP Oil Company
295 SW 41st St, Bldg 13,Ste N
Renton, WA 98055
ATTN: Scott Hooton

P.O.#
H177109, COC#105130
DATE: 06/12/98

PROJECT: #11132,
SITE: Oakland, CA
SAMPLED BY: Alisto Engineering
SAMPLE ID: S-1

PROJECT NO: 10-024-10/004
MATRIX: WATER
DATE SAMPLED: 05/28/98
DATE RECEIVED: 06/04/98

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	50 P	ug/L
Benzene	ND	2.5 P	ug/L
Toluene	ND	5.0 P	ug/L
Ethylbenzene	ND	5.0 P	ug/L
Total Xylene	ND	5.0 P	ug/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	100		
4-Bromofluorobenzene	80		
Method 8020A***			
Analyzed by: DN/			
Date: 06/11/98			
Gasoline Range Organics	0.33	0.25 P	mg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	107		
4-Bromofluorobenzene	67		
California LUFT Manual for Gasoline			
Analyzed by: LJ			
Date: 06/10/98 06:34:00			

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
SPL California License # 1903

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Certificate of Analysis No. H9-9806234-02

BP Oil Company
295 SW 41st St, Bldg 13,Ste N
Renton, WA 98055
ATTN: Scott Hooton

P.O.#
H177109, COC#105130
DATE: 06/12/98

PROJECT: #11132,
SITE: Oakland, CA
SAMPLED BY: Alisto Engineering
SAMPLE ID: S-2

PROJECT NO: 10-024-10/004
MATRIX: WATER
DATE SAMPLED: 05/28/98
DATE RECEIVED: 06/04/98

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	10 P	ug/L
Benzene	1500	25 P	ug/L
Toluene	34	1.0 P	ug/L
Ethylbenzene	180	1.0 P	ug/L
Total Xylene	311	1.0 P	ug/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	100		
4-Bromofluorobenzene	100		

Method 8020A***
Analyzed by: LJ
Date: 06/10/98

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Gasoline Range Organics	4.9	0.05 P	mg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	140		
4-Bromofluorobenzene	167MI		

California LUFT Manual for Gasoline
Analyzed by: LJ
Date: 06/10/98 07:11:00

ND - Not detected.
MI - Matrix interference.
(P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
SPL California License # 1903

Certificate of Analysis No. H9-9806234-03

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

BP Oil Company
295 SW 41st St, Bldg 13,Ste N
Renton, WA 98055
ATTN: Scott Hooton

P.O.#
H177109, COC#105130
DATE: 06/12/98

PROJECT: #11132,
SITE: Oakland, CA
SAMPLED BY: Alisto Engineering
SAMPLE ID: S-3

PROJECT NO: 10-024-10/004
MATRIX: WATER
DATE SAMPLED: 05/28/98
DATE RECEIVED: 06/04/98

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	10 P	ug/L
Benzene	ND	0.5 P	ug/L
Toluene	ND	1.0 P	ug/L
Ethylbenzene	ND	1.0 P	ug/L
Total Xylene	ND	1.0 P	ug/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	100		
4-Bromofluorobenzene	90		
Method 8020A***			
Analyzed by: DN/			
Date: 06/11/98			
Gasoline Range Organics	ND	0.05 P	mg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	103		
4-Bromofluorobenzene	70		
California LUFT Manual for Gasoline			
Analyzed by: LJ			
Date: 06/10/98 07:47:00			

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
SPL California License # 1903

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Certificate of Analysis No. H9-9806234-04

BP Oil Company
295 SW 41st St, Bldg 13,Ste N
Renton, WA 98055
ATTN: Scott Hooton

P.O.#
H177109, COC#105130
DATE: 06/12/98

PROJECT: #11132,
SITE: Oakland, CA
SAMPLED BY: Alisto Engineering
SAMPLE ID: S-4

PROJECT NO: 10-024-10/004
MATRIX: WATER
DATE SAMPLED: 05/28/98
DATE RECEIVED: 06/04/98

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	160	10 P	ug/L
Benzene	ND	0.5 P	ug/L
Toluene	ND	1.0 P	ug/L
Ethylbenzene	ND	1.0 P	ug/L
Total Xylene	ND	1.0 P	ug/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	90		
4-Bromofluorobenzene	90		
Method 8020A***			
Analyzed by: LJ			
Date: 06/10/98			
Gasoline Range Organics	0.070	0.05 P	mg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	107		
4-Bromofluorobenzene	60		
California LUFT Manual for Gasoline			
Analyzed by: LJ			
Date: 06/10/98 08:24:00			

(P) - Practical Quantitation Limit ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
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8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

SPL®

Certificate of Analysis No. H9-9806234-05

BP Oil Company
295 SW 41st St, Bldg 13,Ste N
Renton, WA 98055
ATTN: Scott Hooton

P.O.#
H177109, COC#105130
DATE: 06/12/98

PROJECT: #11132,
SITE: Oakland, CA
SAMPLED BY: Alisto Engineering
SAMPLE ID: S-5

PROJECT NO: 10-024-10/004
MATRIX: WATER
DATE SAMPLED: 05/28/98
DATE RECEIVED: 06/04/98

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	10 P	ug/L
Benzene	ND	0.5 P	ug/L
Toluene	ND	1.0 P	ug/L
Ethylbenzene	ND	1.0 P	ug/L
Total Xylene	ND	1.0 P	ug/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	87		
4-Bromofluorobenzene	87		

Method 8020A***
Analyzed by: LJ
Date: 06/10/98

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Gasoline Range Organics	ND	0.05 P	mg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	100		
4-Bromofluorobenzene	73		

California LUFT Manual for Gasoline
Analyzed by: LJ
Date: 06/10/98 09:01:00

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Certificate of Analysis No. H9-9806234-06

BP Oil Company
295 SW 41st St, Bldg 13,Ste N
Renton, WA 98055
ATTN: Scott Hooton

P.O.#
H177109, COC#105130
DATE: 06/12/98

PROJECT: #11132,
SITE: Oakland, CA
SAMPLED BY: Alisto Engineering
SAMPLE ID: S-6

PROJECT NO: 10-024-10/004
MATRIX: WATER
DATE SAMPLED: 05/28/98
DATE RECEIVED: 06/04/98

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	2700	500 P	ug/L
Benzene	90	0.5 P	ug/L
Toluene	15	1.0 P	ug/L
Ethylbenzene	60	1.0 P	ug/L
Total Xylene	305	1.0 P	ug/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	90		
4-Bromofluorobenzene	100		

Method 8020A***
Analyzed by: LJ
Date: 06/11/98

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Gasoline Range Organics	2.0	0.05 P	mg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	207MI		
4-Bromofluorobenzene	90		

California LUFT Manual for Gasoline
Analyzed by: LJ
Date: 06/11/98 05:07:00

(P) - Practical Quantitation Limit   MI - Matrix interference.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Certificate of Analysis No. H9-9806234-07

BP Oil Company
295 SW 41st St, Bldg 13,Ste N
Renton, WA 98055
ATTN: Scott Hooton

P.O.#
H177109, COC#105130
DATE: 06/12/98

PROJECT: #11132,
SITE: Oakland, CA
SAMPLED BY: Alisto Engineering
SAMPLE ID: S-7

PROJECT NO: 10-024-10/004
MATRIX: WATER
DATE SAMPLED: 05/28/98
DATE RECEIVED: 06/04/98

ANALYTICAL DATA

PARAMETER	**RESULTS**	**DETECTION LIMIT**	**UNITS**
MTBE	ND	250 P	ug/L
Benzene	250	12.5 P	ug/L
Toluene	1200	25 P	ug/L
Ethylbenzene	1500	25 P	ug/L
Total Xylene	11400	25 P	ug/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	103		
4-Bromofluorobenzene	109		
Method 8020A***			
Analyzed by: DN/			
Date: 06/11/98			
Gasoline Range Organics	41	1.2 P	mg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	96		
4-Bromofluorobenzene	123		
California LUFT Manual for Gasoline			
Analyzed by: LJ			
Date: 06/11/98 05:44:00			

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Certificate of Analysis No. H9-9806234-08

BP Oil Company
295 SW 41st St, Bldg 13,Ste N
Renton, WA 98055
ATTN: Scott Hooton

P.O.#
H177109, COC#105130
DATE: 06/12/98

PROJECT: #11132,
SITE: Oakland, CA
SAMPLED BY: Alisto Engineering
SAMPLE ID: S-8

PROJECT NO: 10-024-10/004
MATRIX: WATER
DATE SAMPLED: 05/28/98
DATE RECEIVED: 06/04/98

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	1000 P	ug/L
Benzene	3200	50 P	ug/L
Toluene	24000	100 P	ug/L
Ethylbenzene	5200	100 P	ug/L
Total Xylene	43000	100 P	ug/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	90		
4-Bromofluorobenzene	87		
Method 8020A***			
Analyzed by: LJ			
Date: 06/11/98			
Gasoline Range Organics	220	5 P	mg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	93		
4-Bromofluorobenzene	107		
California LUFT Manual for Gasoline			
Analyzed by: LJ			
Date: 06/11/98 06:22:00			

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Certificate of Analysis No. H9-9806234-09

BP Oil Company
295 SW 41st St, Bldg 13,Ste N
Renton, WA 98055
ATTN: Scott Hooton

P.O.#
H177109, COC#105130
DATE: 06/12/98

PROJECT: #11132,
SITE: Oakland, CA
SAMPLED BY: Alisto Engineering
SAMPLE ID: S-9

PROJECT NO: 10-024-10/004
MATRIX: WATER
DATE SAMPLED: 05/28/98
DATE RECEIVED: 06/04/98

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	900	250 P	ug/L
Benzene	3900	12 P	ug/L
Toluene	3100	25 P	ug/L
Ethylbenzene	3100	25 P	ug/L
Total Xylene	18000	25 P	ug/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	123		
4-Bromofluorobenzene	83		

Method 8020A***
Analyzed by: LJ
Date: 06/11/98

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Gasoline Range Organics	79	1.2 P	mg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	103		
4-Bromofluorobenzene	160MI		

California LUFT Manual for Gasoline
Analyzed by: LJ
Date: 06/11/98 06:59:00

(P) - Practical Quantitation Limit   MI - Matrix interference.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Certificate of Analysis No. H9-9806234-10

BP Oil Company
295 SW 41st St, Bldg 13,Ste N
Renton, WA 98055
ATTN: Scott Hooton

P.O.#
H177109, COC#105130
DATE: 06/12/98

PROJECT: #11132,
SITE: Oakland, CA
SAMPLED BY: Alisto Engineering
SAMPLE ID: S-11

PROJECT NO: 10-024-10/004
MATRIX: WATER
DATE SAMPLED: 05/28/98
DATE RECEIVED: 06/04/98

ANALYTICAL DATA

PARAMETER	**RESULTS**	**DETECTION LIMIT**	**UNITS**
MTBE	2900	250 P	ug/L
Benzene	980	12 P	ug/L
Toluene	3900	25 P	ug/L
Ethylbenzene	3600	25 P	ug/L
Total Xylene	19000	25 P	ug/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	120		
4-Bromofluorobenzene	87		
Method 8020A***			
Analyzed by: LJ			
Date: 06/11/98			
Gasoline Range Organics	87	1.2 P	mg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	100		
4-Bromofluorobenzene	173MI		
California LUFT Manual for Gasoline			
Analyzed by: LJ			
Date: 06/11/98 07:37:00			

(P) - Practical Quantitation Limit   MI - Matrix interference.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Certificate of Analysis No. H9-9806234-11

BP Oil Company
295 SW 41st St, Bldg 13,Ste N
Renton, WA 98055
ATTN: Scott Hooton

P.O.#
H177109, COC#105130
DATE: 06/12/98

PROJECT: #11132,
SITE: Oakland, CA
SAMPLED BY: Alisto Engineering
SAMPLE ID: S-12

PROJECT NO: 10-024-10/004
MATRIX: WATER
DATE SAMPLED: 05/28/98
DATE RECEIVED: 06/04/98

ANALYTICAL DATA

PARAMETER	**RESULTS**	**DETECTION LIMIT**	**UNITS**
MTBE	ND	500 P	ug/L
Benzene	290	25 P	ug/L
Toluene	830	50 P	ug/L
Ethylbenzene	1400	50 P	ug/L
Total Xylene	10500	50 P	ug/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	83		
4-Bromofluorobenzene	87		
Method 8020A***			
Analyzed by: LJ			
Date: 06/11/98			
Gasoline Range Organics	53	2.5 P	mg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	93		
4-Bromofluorobenzene	113		
California LUFT Manual for Gasoline			
Analyzed by: LJ			
Date: 06/11/98 08:15:00			

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
SPL California License # 1903

QUALITY CONTROL

DOCUMENTATION

** SPL BATCH QUALITY CONTROL REPORT **

METHOD 8020

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Matrix: Aqueous

Units: ug/L

Batch Id: HP_J980610213900

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
MTBE	ND	50	53	106	72 - 128
Benzene	ND	50	55	110	61 - 119
Toluene	ND	50	57	114	65 - 125
EthylBenzene	ND	50	57	114	70 - 118
O Xylene	ND	50	56	112	72 - 117
M & P Xylene	ND	100	110	110	72 - 116

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	QC Limits(***) (Advisory) Recovery Range
MTBE	230	20	240	NC	150	NC	NC	20	39 - 150
BENZENE	2.1	20	22	99.5	12	49.5	67.1 *	21	32 - 164
TOLUENE	ND	20	21	105	10	50.0	71.0 *	20	38 - 159
ETHYLBENZENE	2.2	20	23	104	12	49.0 *	71.9 *	19	52 - 142
O XYLENE	ND	20	22	110	12	60.0	58.8 *	18	53 - 143
M & P XYLENE	ND	40	44	110	22	55.0	66.7 *	17	53 - 144

Analyst: DN/
Sequence Date: 06/10/98
SPL ID of sample spiked: 9806212-06A
Sample File ID: J_F2084.TX0
Method Blank File ID:
Blank Spike File ID: J_F2075.TX0
Matrix Spike File ID: J_F2077.TX0
Matrix Spike Duplicate File ID: J_F2078.TX0

* = Values outside QC Range due to Matrix Interference (except RPD)
« = Data outside Method Specification limits.
NC = Not Calculated (Sample exceeds spike by factor of 4 or more)
ND = Not Detected/Below Detection Limit
% Recovery = [(<1> - <2>) / <3>] x 100
LCS % Recovery = (<1> / <3>) x 100
Relative Percent Difference = |(<4> - <5> | / [(<4> + <5>) x 0.5] x 100
(**) = Source: SPL-Houston Historical Data (1st Q '97)
(***) = Source: SPL-Houston Historical Data (1st Q '97)

<u>SAMPLES IN BATCH(SPL ID):</u>

9806212-06A	9806140-01A	9806140-02A	9806208-01A
9806208-02A	9806208-03A	9806208-04A	9806485-01A
9806485-01A	9806257-07A	9806234-03A	9806257-04A
9806257-05A	9806058-06A	9806234-01A	9806058-05A
9806058-07A	9806234-07A	9806116-03A	9806212-07A

** SPL BATCH QUALITY CONTROL REPORT **

Method 8020A***

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Matrix: Aqueous

Units: ug/L

Batch Id: HP_N980611015401

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
MTBE	ND	100	110	110	72 - 128
Benzene	ND	100	110	110	61 - 119
Toluene	ND	100	110	110	65 - 125
EthylBenzene	ND	100	110	110	70 - 118
O Xylene	ND	100	110	110	72 - 117
M & P Xylene	ND	200	220	110	72 - 116

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	QC Limits(***) (Advisory) Recovery Range
MTBE	ND	100	120	120	130	130	8.00	20	39 - 150
BENZENE	ND	100	120	120	120	120	0	21	32 - 164
TOLUENE	ND	100	120	120	120	120	0	20	38 - 159
ETHYLBENZENE	ND	100	120	120	120	120	0	19	52 - 142
O XYLENE	ND	100	120	120	120	120	0	18	53 - 143
M & P XYLENE	ND	200	240	120	250	125	4.08	17	53 - 144

Analyst: TB
Sequence Date: 06/11/98
SPL ID of sample spiked: 9806331-01A
Sample File ID: N_F2118.TX0
Method Blank File ID:
Blank Spike File ID: N_F2113.TX0
Matrix Spike File ID: N_F2115.TX0
Matrix Spike Duplicate File ID: N_F2116.TX0

* = Values outside QC Range due to Matrix Interference (except RPD)
« = Data outside Method Specification limits.
NC = Not Calculated (Sample exceeds spike by factor of 4 or more)
ND = Not Detected/Below Detection Limit
% Recovery = [(<1> - <2>) / <3>] x 100
LCS % Recovery = (<1> / <3>) x 100
Relative Percent Difference = |(<4> - <5> | / [(<4> + <5>) x 0.5] x 100
(**) = Source: SPL-Houston Historical Data (1ST Q '97)
(***) = Source: SPL-Houston Historical Data (1ST Q '97)

SAMPLES IN BATCH(SPL ID): 9806234-02A 9806234-06A

** SPL BATCH QUALITY CONTROL REPORT **

METHOD 8020

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Matrix: Aqueous

Batch Id: VARD980609180900

Units: ug/L

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
MTBE	ND	50	45	90.0	72 - 128
Benzene	ND	50	40	80.0	61 - 119
Toluene	ND	50	42	84.0	65 - 125
EthylBenzene	ND	50	35	70.0	70 - 118
O Xylene	ND	50	51	102	72 - 117
M & P Xylene	ND	100	98	98.0	72 - 116

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	QC Limits(***) (Advisory) Recovery Range
MTBE	ND	20	32	160 *	29	145	9.84	20	39 - 150
BENZENE	1.9	20	23	106	22	100	5.83	21	32 - 164
TOLUENE	ND	20	21	105	20	100	4.88	20	38 - 159
ETHYLBENZENE	1.1	20	21	99.5	19	89.5	10.6	19	52 - 142
O XYLENE	ND	20	22	110	20	100	9.52	18	53 - 143
M & P XYLENE	ND	40	40	100	37	92.5	7.79	17	53 - 144

Analyst: LJ/
Sequence Date: 06/09/98
SPL ID of sample spiked: 9805D19-02A
Sample File ID: D_F2064.TX0
Method Blank File ID:
Blank Spike File ID: D_F2051.TX0
Matrix Spike File ID: D_F2059.TX0
Matrix Spike Duplicate File ID: D_F2060.TX0

* = Values outside QC Range due to Matrix Interference (except RPD)
« = Data outside Method Specification limits.
NC = Not Calculated (Sample exceeds spike by factor of 4 or more)
ND = Not Detected/Below Detection Limit
% Recovery = [(<1> - <2>) / <3>] x 100
LCS % Recovery = (<1> / <3>) x 100
Relative Percent Difference = |(<4> - <5> | / [(<4> + <5>) x 0.5] x 100
(**) = Source: SPL-Houston Historical Data (1st Q '97)
(***) = Source: SPL-Houston Historical Data (1st Q '97)

SAMPLES IN BATCH(SPL ID):

9805D19-06A	9805D19-07A	9805D19-08A	9806058-01A
9806058-04A	9806205-02A	9806058-03A	9806058-05A
9806058-07A	9806234-02A	9806234-04A	9806234-05A
9805D19-02A	9805D19-03A	9805D19-04A	9805D19-05A

** SPL BATCH QUALITY CONTROL REPORT **
Method 8020A***

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Matrix: Aqueous
Units: ug/L

Batch Id: VARD980610232900

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
MTBE	ND	50	39	78.0	72 - 128
Benzene	ND	50	45	90.0	61 - 119
Toluene	ND	50	45	90.0	65 - 125
EthylBenzene	ND	50	46	92.0	70 - 118
O Xylene	ND	50	44	88.0	72 - 117
M & P Xylene	ND	100	90	90.0	72 - 116
Total Xylene	ND	150	130	86.7	-

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	QC Limits(***) (Advisory) Recovery Range
MTBE	ND	20	20	100	20	100	0	20	39 - 150
BENZENE	ND	20	17	85.0	18	90.0	5.71	21	32 - 164
TOLUENE	ND	20	14	70.0	14	70.0	0	20	38 - 159
ETHYLBENZENE	ND	20	14	70.0	14	70.0	0	19	52 - 142
O XYLENE	ND	20	8.2	41.0 *	7.9	39.5 *	3.73	18	53 - 143
M & P XYLENE	ND	40	7.9	19.8 *	7.3	18.2 *	8.42	17	53 - 144
TOTAL XYLENE	ND	60	16	26.7	15	25.0	6.58		-

Analyst: LJ
Sequence Date: 06/10/98
SPL ID of sample spiked: 9806233-01A
Sample File ID: D_F2098.TX0
Method Blank File ID:
Blank Spike File ID: D_F2089.TX0
Matrix Spike File ID: D_F2093.TX0
Matrix Spike Duplicate File ID: D_F2094.TX0

* = Values outside QC Range due to Matrix Interference (except RPD)
« = Data outside Method Specification limits.
NC = Not Calculated (Sample exceeds spike by factor of 4 or more)
ND = Not Detected/Below Detection Limit
% Recovery = [(<1> - <2>) / <3>] x 100
LCS % Recovery = (<1> / <3>) x 100
Relative Percent Difference = |(<4> - <5> | / [(<4> + <5>) x 0.5] x 100
(**) = Source: SPL-Houston Historical Data (1ST Q '97)
(***) = Source: SPL-Houston Historical Data (1ST Q '97)

SAMPLES IN BATCH(SPL ID):

9806234-08A	9806234-09A	9806234-10A	9806234-11A
9806058-02A	9806058-04A	9806307-02A	9806307-03A
9806307-04A	9806307-01A	9806307-05A	9806307-06A
9806233-01A	9806233-02A	9806234-06A	

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

** SPL BATCH QUALITY CONTROL REPORT **

California LUFT Manual for Gasoline

Matrix: Aqueous

Units: mg/L

Batch Id: VARD980610013100

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
Gasoline Range Organics	ND	1.0	0.64	64.0	64 - 131

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	QC Limits(***) (Advisory) Recovery Range
GASOLINE RANGE ORGANICS	ND	0.90	0.67	74.4	0.68	75.6	1.60	36	36 - 160

Analyst: LJ/
Sequence Date: 06/10/98
SPL ID of sample spiked: 9805D19-03A
Sample File ID: DDF2065.TX0
Method Blank File ID:
Blank Spike File ID: DDF2058.TX0
Matrix Spike File ID: DDF2061.TX0
Matrix Spike Duplicate File ID: DDF2062.TX0

* = Values outside QC Range due to Matrix Interference (except RPD)
« = Data outside Method Specification limits.
NC = Not Calculated (Sample exceeds spike by factor of 4 or more)
ND = Not Detected/Below Detection Limit
% Recovery = [(<1> - <2>) / <3>] x 100
LCS % Recovery = (<1> / <3>) x 100
Relative Percent Difference = |(<4> - <5> | / [(<4> + <5>) x 0.5] x 100
(**) = Source: SPL-Houston Historical data (1st Q '97)
(***) = Source: SPL-Houston Historical Data (1st Q '97)

SAMPLES IN BATCH(SPL ID):

9805D19-06A	9805D19-07A	9805D19-08A	9806058-01A
9806058-04A	9806058-02A	9806058-03A	9806058-05A
9806058-06A	9806058-07A	9806234-01A	9806234-02A
9806234-03A	9806234-04A	9806234-05A	9805D19-02A
9805D19-03A	9805D19-04A	9805D19-05A	

** SPL BATCH QUALITY CONTROL REPORT **

California LUFT Manual for Gasoline

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Matrix: Aqueous

Units: mg/L

Batch Id: VARD980610225200

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
Gasoline Range Organics	ND	1.0	0.98	98.0	64 - 131

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike		Matrix Spike Duplicate		MS/MSD Relative % Difference	QC Limits(***) (Advisory)	
			Result <1>	Recovery <4>	Result <1>	Recovery <5>		RPD Max.	Recovery Range
GASOLINE RANGE ORGANICS	ND	0.90	0.56	62.2	0.52	57.8	7.33	36	36 - 160

Analyst: LJ
Sequence Date: 06/11/98
SPL ID of sample spiked: 9806233-02A
Sample File ID: DDF2099.TX0
Method Blank File ID:
Blank Spike File ID: DDF2111.TX0
Matrix Spike File ID: DDF2095.TX0
Matrix Spike Duplicate File ID: DDF2096.TX0

* = Values outside QC Range due to Matrix Interference (except RPD)
« = Data outside Method Specification limits.
NC = Not Calculated (Sample exceeds spike by factor of 4 or more)
ND = Not Detected/Below Detection Limit
% Recovery = [(<1> - <2>) / <3>] x 100
LCS % Recovery = (<1> / <3>) x 100
Relative Percent Difference = |(<4> - <5> | / [(<4> + <5>) x 0.5] x 100
(**) = Source: SPL-Houston Historical data (1st Q '97)
(***) = Source: SPL-Houston Historical Data (1st Q '97)

__SAMPLES IN BATCH(SPL ID):__

9806234-07A 9806234-08A 9806234-09A 9806234-10A
9806234-11A 9806058-04A 9806233-01A 9806233-02A
9806234-06A

CHAIN OF CUSTODY

AND

SAMPLE RECEIPT CHECKLIST

SPL Houston Environmental Laboratory

Sample Login Checklist

Date:	Time:
6-4-98	10:00

SPL Sample ID: 9806234

			Yes	No
1	Chain-of-Custody (COC) form is present.		✓	
2	COC is properly completed.		✓	
3	If no, Non-Conformance Worksheet has been completed.			
4	Custody seals are present on the shipping container.		✓	
5	If yes, custody seals are intact.		✓	
6	All samples are tagged or labeled.		✓	
7	If no, Non-Conformance Worksheet has been completed.			
8	Sample containers arrived intact		✓	
9	Temperature of samples upon arrival:		3 C	
10	Method of sample delivery to SPL:	SPL Delivery		
		Client Delivery		
		FedEx Delivery (airbill #)	3848472670	
		Other:		
11	Method of sample disposal:	SPL Disposal	✓	
		HOLD		
		Return to Client		

Name:	Date:
[signature]	6-4-98

9806234

BP

CHAIN OF CUSTODY

No. 105130 Page 1 of 2

CONSULTANT'S NAME	CONSULTANT'S ADDRESS
Alisto Engineering	1575 Treat Blvd #201 Walnut Creek, Ca 9459[illegible]

BP SITE NUMBER	BP SITE / FACILITY ADDRESS	CONSULTANT PROJECT NUMBER
11132	Oakland, Ca	10-024-10/004

CONSULTANT PROJECT MANGER	PHONE NUMBER	FAX NUMBER	CONSULTANT CONTRACT NUMBER
Brady Nagle	(510) 295-1650	295-1823	H177109

BP CONTACT	BP ADDRESS	PHONE NUMBER	FAX NO.
Scott Hooton	Renton, WA	–	–

LAB CONTACT	LABORATORY ADDRESS	PHONE NUMBER	FAX NO.
SPL	Texas	–	–

BP CONTACT REQUESTING RUSH TAT (Print BP Contact Name)	RUSH REQUESTED OF (Print Consultant Contact Name)	DATE/TIME	SHIPMENT DATE	SHIPMENT METHOD
			6/3/98	Fed Ex

TAT: ☐ 24 Hours ☐ 48 Hours ☐ 72 Hours ☒ Standard 7 or 14 Days

AIRBILL NUMBER 3848472670

ANALYSIS REQUIRED

SAMPLE DESCRIPTION	COLLECTION DATE	COLLECTION TIME	MATRIX SOIL/WATER	CONTAINERS NO.	CONTAINERS TYPE (VOL.)	PRESERVATIVE LAB SAMPLE #	TPH-G / BTEX	MTBE									COMMENTS
S-1	5/28/98		H2O	3	HCl		X	X									
S-2	↓		↓	↓	↓		↓	↓									
S-3	↓		↓	↓	↓		↓	↓									
S-4	↓		↓	↓	↓		↓	↓									
S-5	↓		↓	↓	↓		↓	↓									
S-6	↓		↓	↓	↓		↓	↓									
S-7	↓		↓	↓	↓		↓	↓									
S-8	↓		↓	↓	↓		↓	↓									
S-9	↓		↓	↓	↓		↓	↓									
S-11	↓		↓	↓	↓		↓	↓									3°C

SAMPLED BY (Please Print Name)	SAMPLED BY (Signature)	ADDITIONAL COMMENTS

RELINQUISHED BY / AFFILIATION (Print Name / Signature)	DATE	TIME	ACCEPTED BY /AFFILIATION (Print Name / Signature)	DATE	TIME
[signature]	6/3/98	0830	P. Yelton	6/3/98	0830
P. Yelton	6/3/98	1400			
			Randy Turnell / [signature]	6-4-98	1000

CLV-16722-A (2/97)
PKG/50

DISTRIBUTION: WHITE - ORIGINAL (WITH DATA) YELLOW - BP PINK - LAB BLUE - CONSULTANT FIELD STAFF

BP

CHAIN OF CUSTODY

No. 105132

Page 2 of 2

CONSULTANT'S NAME: Alisto Engineering	CONSULTANT'S ADDRESS: 1575 Treat Blvd #201 Walnut Creek, Ca 94598
BP SITE NUMBER: 11132	BP SITE / FACILITY ADDRESS: Oakland Ca
CONSULTANT PROJECT NUMBER: 10-024-10/004	
CONSULTANT PROJECT MANGER: Brady Nagle	PHONE NUMBER: (510) 295-1650
FAX NUMBER: 295-1823	CONSULTANT CONTRACT NUMBER: H177109
BP CONTACT: Scott Hooton	BP ADDRESS: Renton, WA
PHONE NUMBER: —	FAX NO.: —
LAB CONTACT: SPL	LABORATORY ADDRESS: Texas
PHONE NUMBER: —	FAX NO.: —
BP CONTACT REQUESTING RUSH TAT (Print BP Contact Name):	RUSH REQUESTED OF (Print Consultant Contact Name):
DATE/TIME:	SHIPMENT DATE: 6-3-98
SHIPMENT METHOD: Fed Ex	AIRBILL NUMBER: 384847 2670

TAT: ☐ 24 Hours ☐ 48 Hours ☐ 72 Hours ☒ Standard 7 or 14 Days

ANALYSIS REQUIRED

SAMPLE DESCRIPTION	COLLECTION DATE	COLLECTION TIME	MATRIX SOIL/WATER	CONTAINERS NO.	CONTAINERS TYPE (VOL.)	PRESERVATIVE LAB SAMPLE #	TPH-G BTEX	MTBE									COMMENTS
S-12	5/28/98		H2O	3	HCL		X	X									
																	3°C

SAMPLED BY (Please Print Name)

SAMPLED BY (Signature)

ADDITIONAL COMMENTS

RELINQUISHED BY / AFFILIATION (Print Name / Signature)	DATE	TIME	ACCEPTED BY /AFFILIATION (Print Name / Signature)	DATE	TIME
[signature]	6/3/98	8:32	P. Yelton	6/3/98	8:37
P. Yelton	6/3/98	1400			

CLV-16722-A (2/97)
PKG/50

DISTRIBUTION WHITE - ORIGINAL (WITH DATA) YELLOW - BP PINK - LAB BLUE - CONSULTANT FIELD STAFF

BP EXPLORATION & OIL, INC.
ENVIRONMENTAL REMEDIATION MANAGEMENT
DATA REVIEW CHECKLIST

BP Site Number:	11132
ERM Contact:	H177109
Sampling Date:	5/28/98
Matrix Description:	Water
Date Final Report Received:	6/18/98
Laboratory & Location:	SPL, Houston, Texas

		Yes	No	N/A
1.	Is BP contract release number consistent with analytical report?	X		
2.	Was report submitted within the specified timeframe?	X		
3.	Does report agree with the COC?	X		
4.	Are units consistent with the given matrix?	X		
5.	Were any target analytes/compounds detected in blanks (i.e., trip or equipment)?			X
6.	Are duplicate water samples within 30%?	X		
7.	Are holding times met?	X		
8.	Are surrogates within limits using laboratory criteria?	See Below		
9.	Are MS/MSD acceptable using laboratory criteria?	See Below		
10.	Are LCS results acceptable using laboratory criteria?	X		

Analysis of one of the two surrogates (1,4-Difluorobenzene or 4-Bromofluorobezene) during TPH-G analysis of Samples S-2, S-6, S-9, and S-11 were outside quality control limits due to matrix interference; the quality control for that method specifies that only one of two surrogate should be within the specified recovery range.

MS/MSD recovery and relative % difference for MTBE in one of four matrix spikes were not calculated due to sample exceeding spike by a factor of 4 or more. MS/MSD relative % difference value for BTEX in one of four matrix spikes and for xylenes in another were outside QC range due to matrix interference. MS/MSD limits are advisory only; as stated in SW-846, Section 8.7 to 8.8, if the MS/MSD results fall outside the advisable ranges, a laboratory control samples (LCS) must be analyzed and fall within those ranges. LCS results are within quality control limits.

Data Validation Completed by: Brady Nagle

(signature): Brady Nagle

Date: 8/14/98

TABLE 2 - PRODUCT REMOVAL STATUS

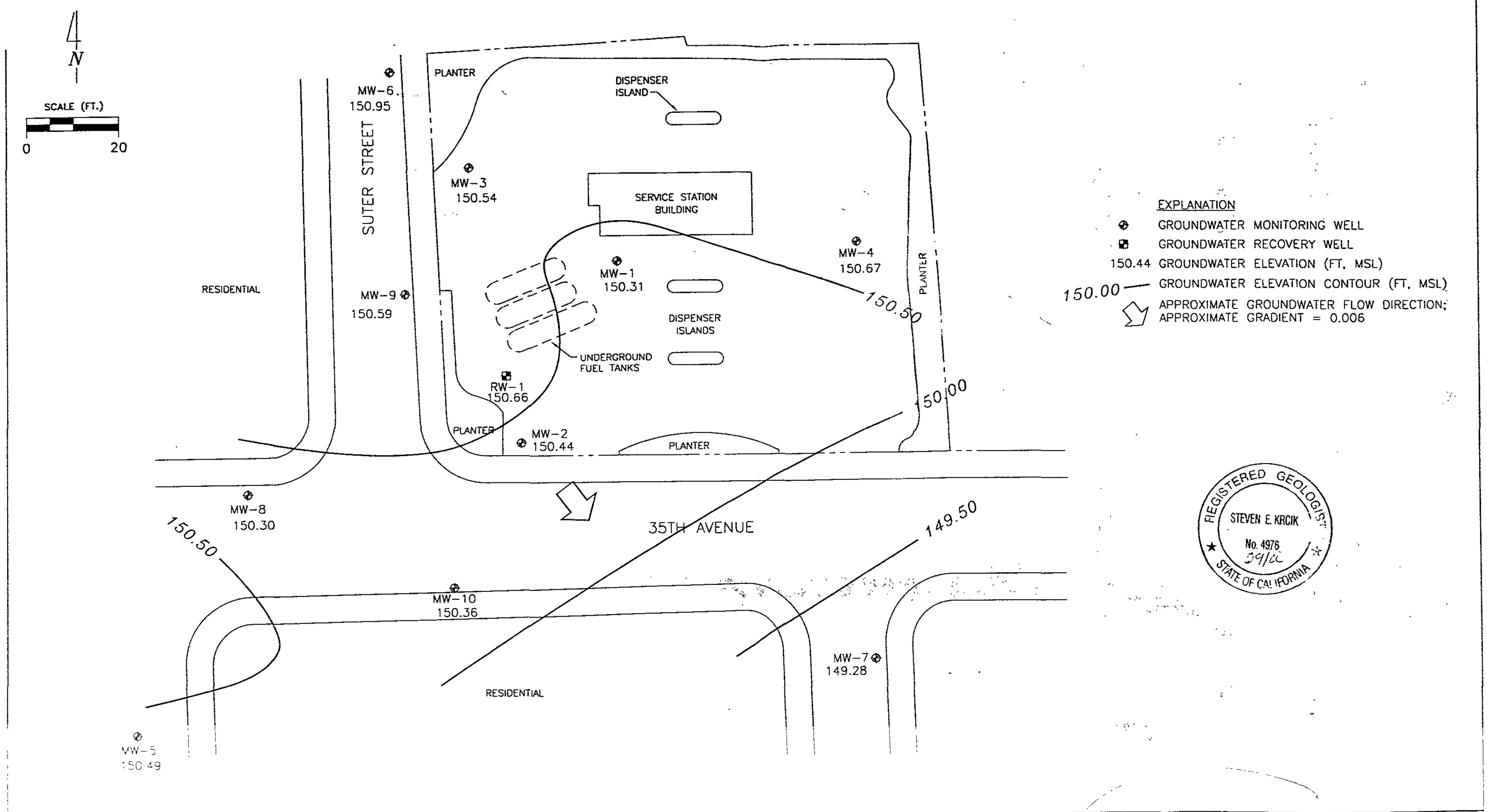
WELL ID	DATE	PRODUCT THICKNESS (Feet)	PRODUCT REMOVED (Gallons)	PRODUCT REMOVED CUMULATIVE (Gallons)
MW-1	01/26/95	1.1	3.00	3.00
	06/08/95	1.2	0.60	3.60
	06/28/95	—	0.10	3.70
	08/22/95	0.85	0.15	3.85
	10/30/95	0.69	0.11	3.96
	01/25/96	1.4	1.00	4.96
	02/16/95	—	0.08	5.04
	04/19/96	1.22	0.75	5.79
	07/23/96	0.89	0.00	5.79
	11/11/96	0.98	0.98	6.77
	01/21/97	0 9	0.20	6.97
	04/29/97	0.85	0.25	7.22
	08/21/97	0.87	0.15	7.37
	11/05/97	0.54	0.25	7.62
	02/03/98	0 32	0.25	7.87
	05/06/98	0.47	0.25	8.12
	05/13/98	0.1	<0.1	NA
	05/24/98	0 19	<0.1	NA
	05/27/98	0 15	<0.1	NA
	05/28/98	0 17	0.20	8.32
	06/09/98	0.2	0.25	8.57
	06/17/98	0.21	0.10	8 67
	06/22/98	0.15	0.25	8 92
	07/02/98	0.15	0.10	8.42
	07/09/98	0.2	0.10	8 67
	07/14/98	0 11	<0.1	NA
	07/30/98	0.1	<0.1	NA
	12/30/98	0.08	0.02	8.69
MW-2	09/29/93	---	0.10	0 10
	10/05/93	---	0.10	0.20
	10/14/93	---	0.10	0.30
	10/20/93	0.31	0.25	0.55
	11/02/93	---	0.10	0.65
	12/07/93	---	0.05	0.70
	12/17/93	---	<0.01	NA
	12/23/93	---	0.30	1.00
	01/12/94	---	0.05	1.05
	02/02/94	---	0.01	1.06
	02/11/94	---	0.01	1.07
	03/18/94	---	<0.01	NA
	08/01/94	0.04	---	NA
	10/26/94	---	0.10	1.17
	11/12/94	---	0.10	1.27
	12/12/94	---	0.03	1.30
	12/23/94	0.03	---	NA
	01/26/95	0.39	0.20	1.50
	06/08/95	0.43	<0.10	NA
	06/28/95	---	0.05	1.55
	08/22/95	0.36	0.10	1.65
	10/30/95	0.3	0.05	1.70
	01/25/96	0.15	<0.10	NA
	02/16/95	---	<0.10	NA
	04/19/96	0.07	<0.10	NA
	07/23/96	0.05	<0.10	NA
	11/11/96	0.01	<0.10	NA
	01/21/97	0.01	<0.10	NA

	04/29/97	0.01	<0.10	NA
	08/21/98	0.01	<0.10	NA
	11/05/97	0.01	<0.10	NA
	02/03/98	0.00	<0.10	NA
	05/28/98	Globules	<0.10	NA
	12/30/98	---	---	NA
MW-8				
	07/12/93	Iridescence	---	---
	10/21/93	0.95	---	---
	11/02/93	---	0.25	0.25
	11/10/93	---	0.10	0.35
	11/16/93	---	0.10	0.45
	11/23/93	---	0.10	0.55
	11/30/93	---	0.10	0.65
	12/17/93	---	<0.10	NA
	12/23/93	---	<0.10	NA
	01/12/94	---	<0.10	NA
	01/21/94	0.03	---	NA
	02/02/94	---	0 05	0.70
	02/11/94	---	0.08	0.78
	02/18/94	---	0.10	0.88
	03/18/94	---	<0.10	NA
	04/20/94	0.03	---	NA
	04/27/94	---	0.10	0.98
	05/27/94	---	0 10	1.08
	10/26/94	---	0 10	1.18
	11/12/94	---	<0 10	NA
	12/12/94	---	<0.10	NA
	12/23/94	0.03	<0.10	NA
	06/08/95	0.29	0 10	1.28
	08/22/95	0.2	0 05	1.33
	10/27/95	0.14	<0 10	NA
	10/30/95	---	0.02	1.35
	01/25/96	0.22	0.05	1.4
	02/16/95	---	0.1	1 5
	04/19/96	0.2	0.25	1.75
	07/23/96	0.14	<0.10	NA
	11/11/96	0.02	<0.10	NA
	01/21/97	0.01	<0.10	NA
	08/21/97	Iridescence	---	NA
	11/05/97	0.1	0.10	1.85
	02/03/98	0.03	<0.10	NA
	05/06/98	0.05	<0.10	NA
	05/28/98	(a)	---	NA
	12/30/98	0.05	0.01	1.86
MW-9	10/21/93	0.89	---	---
	11/02/93	---	0.10	0.10
	11/10/93	---	0.10	0.20
	11/16/93	---	0.10	0.30
	12/23/93	---	0.10	0.40
	01/12/94	---	<0.10	NA
	01/20/93	---	0.05	0.45
	02/02/94	---	0.05	0.50
	02/11/94	---	<0.10	NA
	02/18/94	---	0.10	0.60
	03/18/94	---	0.10	0.70
	08/01/94	0.05	---	NA
	10/26/94	---	0.15	0.85
	11/12/94	---	0.10	0.95
	12/12/94	---	0.10	1.05
	12/23/94	0.02	---	NA
	01/26/95	---	0.10	1.15

	06/28/95	---	0.10	1.25
	08/22/95	---	0.10	1.35
	10/30/95	---	0.10	1.45
	01/25/96	0.13	0.10	1.55
	02/16/95	---	0.10	1.65
	06/08/95	0.8	---	NA
	08/22/95	0.01	---	NA
	10/27/95	0.01	---	NA
	01/25/96	0.07	---	NA
	04/19/96	(a)	---	NA
	07/23/96	0.03	<0.10	NA
	11/11/96	0.01	<0.10	NA
	01/21/97	0.01	<0.10	NA
	04/29/97	Iridescence	<0.10	NA
	08/27/97	0.01	---	NA
	11/05/97	0.01	0.10	1.75
	02/03/98	---	<0.10	NA
	05/13/98	0.02	<0.10	NA
	05/24/98	0.01	<0.10	NA
	05/27/98	0.01	<0.10	NA
	05/28/98	0.01	<0.10	NA
	06/09/98	0.01	<0.10	NA
	06/17/98	0.01	<0.10	NA
	06/22/98	0.01	<0.10	NA
	07/02/98	0.01	<0.10	NA
	07/09/98	0.01	<0.10	NA
	07/14/98	0.01	<0.10	NA
	12/30/98	---	---	NA
MW-10	09/07/93	---	*0.10*	*0.10*
	09/14/93	---	0 10	0.20
	09/29/93	---	0.10	0.30
	10/05/93	---	1.60	1.90
	10/14/93	---	2.10	4.00
	10/20/93	---	1 00	5.00
	10/21/93	0.69	---	NA
	10/27/93	---	1.00	6.00
	11/02/93	---	0.30	6.30
	11/10/93	---	0.20	6.50
	11/16/93	---	0.10	6 60
	11/23/93	---	0.10	6.70
	11/30/93	---	0.30	7.00
	12/07/93	---	0.20	7.20
	12/17/93	---	0.30	7.50
	12/23/93	---	<0.10	NA
	01/04/94	---	<0.10	NA
	01/12/94	---	0.10	7.60
	01/20/94	---	0.20	7.80
	01/21/94	0.06	---	NA
	02/02/94	---	0.10	7.90
	02/11/94	---	0.10	8.00
	02/18/94	---	0.20	8.20
	05/27/94	---	<0.10	NA
	08/01/94	0.28	---	NA
	10/26/94	---	0.60	8.80
	11/12/94	---	0.40	9.20
	12/12/94	---	0.20	9.40
	12/23/94	0.25	---	NA
	01/26/95	0.8	0.10	9.50
	06/08/95	0.75	---	NA
	06/28/95	---	0.10	9.60
	08/22/95	0.7	0.15	9.75
	10/27/95	0.63	---	NA
	10/30/95	---	0.10	9.85

TABLE 2 - PRODUCT REMOVAL STATUS

01/25/96	0.81	0.25	10.10
02/16/95	—	0.10	10.20
04/19/96	—	0.50	10.70
07/23/96	0.62	<0.10	NA
11/11/96	0.2	0.20	10.90
01/21/97	0.14	<0.03	NA
04/29/97	0.21	0.04	10.94
08/21/97	0.14	—	NA
11/05/97	0.02	<0.10	NA
02/03/98	0.1	<0.10	NA
05/06/98	0.02	<0.10	NA
05/13/98	Sheen	<0.10	NA
05/28/98	Globules	<0.10	NA
12/30/98	—	<0.10	NA



PREPARED BY RRM engineering contracting firm	GROUNDWATER ELEVATION CONTOUR MAP, DECEMBER 30, 1998 BP Oil Service Station No 11132 3201 35th Street Oakland California	FIGURE: 1 PROJECT: DAC04