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GROUNDWATER MONITORING AND SAMPLING REPORT

**BP Oil Company Service Station No. 11109
4280 Foothill Boulevard
Oakland, California**

Project No. 10-014-08-001

#102

Prepared for:

**BP Oil Company
Environmental Resources Management
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Prepared by:

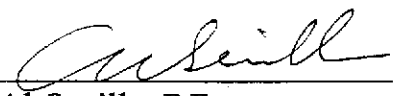
**Alisto Engineering Group
1575 Treat Boulevard, Suite 201
Walnut Creek, California**

1) gradient westerly now
2) maybe should remove
GW from MW 5.

October 28, 1997



**Ken Simas
Project Manager**



**Al Sevilla, P.E.
Principal**



GROUNDWATER MONITORING AND SAMPLING REPORT

BP Oil Company Service Station No. 11109
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INTRODUCTION

This report presents the results and findings of the August 12, 1997 groundwater monitoring and sampling conducted by Alisto Engineering Group at BP Oil Company Service Station No. 11109, 4280 Foothill Boulevard, 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 in reference 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.

Groundwater monitoring was performed in coordination with the neighboring Chevron service station, 4265 Foothill Boulevard, and the Shell service station, 4411 Foothill Boulevard. The results are presented in Tables 2 and 3.

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. Historical methyl tert butyl ether (MTBE) laboratory analysis data not previously tabulated are now included in Table 1. Copies of the MTBE documentation are included in Appendix C of this report only.



TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
 BP OIL COMPANY SERVICE STATION NO. 11109
 4280 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-014

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (Feet)	(a)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (Feet)	(b)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TOG (ug/l)	HVOC (ug/l)	DO (ppm)	LAB	
MW-1	01/31/90	38.19		15.41	---	22.78		---	---	---	---	---	---	---	---	---	---	---	
MW-1	(c) 02/05/90	38.19		---	---	---		---	---	---	---	---	---	---	---	---	---	---	
MW-2	02/05/90	41.22		21.90	---	19.31		1300	---	14	ND<0.1	9	13	---	---	---	---	SUP	
MW-2	02/14/91	41.22		21.16	---	20.06		ND<50	ND<10000	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	ND<5000	51	(d)	SUP	
MW-2	05/13/91	41.22		21.32	---	19.90		ND<50	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	6000	0.5	(e)	SUP	
MW-2	07/24/91	41.22		22.92	---	18.30		---	---	---	---	---	---	---	---	---	---	---	
MW-2	10/03/91	41.22		24.90	---	16.32		ND<50	ND<50	ND<0.3	0.8	ND<0.3	ND<0.3	---	ND<5000	0.7	(e)	SUP	
MW-2	10/15/91	41.22		24.10	---	17.12		---	---	---	---	---	---	---	---	---	---	---	
MW-2	(f) 12/04/91	41.22		---	---	---		---	---	---	---	---	---	---	---	---	---	---	
MW-2	12/16/91	41.22		23.95	---	17.27		---	---	---	---	---	---	---	---	---	---	---	
MW-2	01/06/92	41.22		23.30	---	17.92		ND<50	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	ND<5000	ND	---	ANA	
MW-2	01/22/92	41.22		23.14	---	18.08		---	---	---	---	---	---	---	---	---	---	---	
MW-2	01/28/92	41.22		22.99	---	18.23		---	---	---	---	---	---	---	---	---	---	---	
MW-2	02/05/92	41.22		22.63	---	18.59		---	---	---	---	---	---	---	---	---	---	---	
MW-2	02/12/92	41.22		22.04	---	19.18		---	---	---	---	---	---	---	---	---	---	---	
MW-2	02/17/92	41.22		20.84	---	20.38		---	---	---	---	---	---	---	---	---	---	---	
MW-2	04/03/92	41.22		18.29	---	22.93		---	---	---	---	---	---	---	---	---	---	---	
MW-2	04/08/92	41.22		18.86	---	22.36		ND<50	63	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	ND<5000	ND	---	ANA	
MW-2	04/14/92	41.22		19.45	---	21.77		---	---	---	---	---	---	---	---	---	---	---	
MW-2	04/29/92	41.22		20.35	---	20.87		---	---	---	---	---	---	---	---	---	---	---	
MW-2	05/07/92	41.22		20.84	---	20.38		---	---	---	---	---	---	---	---	---	---	---	
MW-2	07/03/92	41.22		22.34	---	18.88		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	
MW-2	10/08/92	41.22		23.73	---	17.49		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	ANA	
MW-2	12/31/92	41.22		21.12	---	20.10		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	ANA	
MW-2	04/21/93	41.22		17.68	---	23.54		ND<50	ND<50	(g)	ND<0.5	ND<0.5	ND<0.5	---	ND<5000	ND	---	ANA	
MW-2	07/07/93	41.22		20.30	---	20.92		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE	
MW-2	09/21/93	41.22		21.93	---	19.29		ND<50	---	0.9	0.7	0.7	2.6	---	---	---	1.0	(e)	PACE
MW-2	12/17/93	41.22		21.48	---	19.74		---	---	---	---	---	---	---	---	---	---	---	
MW-2	12/23/93	41.22		---	---	---		ND<50	---	ND<0.5	ND<0.5	ND<0.5	0.7	---	---	---	---	---	
MW-2	04/07/94	41.22		20.25	---	20.97		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	
MW-2	07/06/94	41.22		20.59	---	20.63		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	5.9	PACE
MW-2	10/07/94	41.22		22.04	---	19.18		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	3.1	PACE
MW-2	01/27/95	41.22		26.12	---	15.10		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	---	---	2.8	PACE
MW-2	03/30/95	41.22		12.34	---	28.88		ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	ND<5000	---	---	4.8	ATI
MW-2	06/20/95	41.22		16.42	---	24.80		ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	7.2	ATI
MW-2	10/03/95	41.22		20.06	---	21.16		ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	6.0	ATI
MW-2	12/06/95	41.22		21.31	---	19.91		ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	---	---	5.7	ATI
MW-2	03/21/96	41.22		12.28	---	28.94		ND<50	---	ND<0.5	ND<1	ND<1	ND<1	46	---	---	---	5.4	ATI
MW-2	06/21/96	41.22		13.28	---	27.94		ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	---	---	7.4	SPL
MW-2	09/06/96	41.22		13.94	---	27.28		---	---	---	---	---	---	ND<10	---	---	---	7.3	SPL
MW-2	09/09/96	41.22		---	---	---		ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	---	---	---	---	---	
MW-2	12/19/96	41.22		12.19	---	29.03		ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	---	---	---	---	7.4	SPL
MW-2	03/17/97	41.22		11.59	---	29.63		---	---	---	---	---	---	---	---	---	---	7.9	SPL
MW-2	08/12/97	41.22		13.21	---	28.01		---	---	---	---	---	---	---	---	---	---	---	

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 BP OIL COMPANY SERVICE STATION NO. 11109
 4280 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-014

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)	TOG (ug/l)	HVOC (ug/l)	DO (ppm)	LAB
MW-3	02/05/90	40.74	17.45	---	23.29	1400	---	15	ND<2.5	11	8	---	---	---	---	SUP
MW-3	02/14/91	40.74	18.52	---	22.22	320	---	8	ND<0.3	8	1	---	---	---	---	SUP
MW-3	05/13/91	40.74	19.32	---	21.42	640	---	13	ND<0.3	18	1	---	---	---	---	SUP
MW-3	07/24/91	40.74	20.69	---	20.05	---	---	---	---	---	---	---	---	---	---	---
MW-3	10/03/91	40.74	19.47	---	21.27	940	---	21	ND<0.3	23	2.1	---	---	---	---	SUP
MW-3	10/15/91	40.74	20.46	---	20.28	---	---	---	---	---	---	---	---	---	---	---
MW-3	12/04/91	40.74	18.29	---	22.45	---	---	---	---	---	---	---	---	---	---	---
MW-3	12/16/91	40.74	18.34	---	22.40	---	---	---	---	---	---	---	---	---	---	---
MW-3	01/06/92	40.74	18.50	---	22.24	580	---	6.1	1	6.1	7.1	---	---	---	---	ANA
MW-3	01/22/92	40.74	17.86	---	22.88	---	---	---	---	---	---	---	---	---	---	---
MW-3	01/28/92	40.74	15.84	---	24.90	---	---	---	---	---	---	---	---	---	---	---
MW-3	02/05/92	40.74	17.53	---	23.21	---	---	---	---	---	---	---	---	---	---	---
MW-3	02/12/92	40.74	17.15	---	23.59	---	---	---	---	---	---	---	---	---	---	---
MW-3	02/17/92	40.74	16.18	---	24.56	---	---	---	---	---	---	---	---	---	---	---
MW-3	04/03/92	40.74	14.80	---	25.94	---	---	---	---	---	---	---	---	---	---	---
MW-3	04/08/92	40.74	17.06	---	23.68	1100	---	30	4.6	32	11	---	---	---	---	ANA
MW-3	04/14/92	40.74	15.22	---	25.52	---	---	---	---	---	---	---	---	---	---	---
MW-3	04/29/92	40.74	15.90	---	24.84	---	---	---	---	---	---	---	---	---	---	---
MW-3	05/07/92	40.74	16.35	---	24.39	---	---	---	---	---	---	---	---	---	---	---
MW-3	07/03/92	40.74	17.74	---	23.00	1200	---	38	ND<2.5	24	ND<2.5	---	---	---	---	ANA
MW-3	10/08/92	40.74	19.06	---	21.68	1400	---	31	ND<0.5	25	13	---	---	---	---	ANA
MW-3	12/31/92	40.74	16.61	---	24.13	820	---	12	4.1	13	5.9	---	---	---	---	ANA
QC-1	(h) 12/31/92	40.74	---	---	---	960	---	11	3.6	10	3.8	---	---	---	---	ANA
MW-3	04/21/93	40.74	14.24	---	26.50	420	---	5.6	ND<0.5	3.9	1.4	---	---	---	---	PACE
QC-1	(h) 04/21/93	40.74	---	---	---	390	---	5.0	ND<0.5	3.7	1.5	---	---	---	---	PACE
MW-3	07/07/93	40.13	(i) 15.19	---	24.94	54	---	0.6	0.6	ND<0.5	ND<0.5	---	---	---	---	PACE
MW-3	09/21/93	40.13	16.58	---	23.55	540	---	7.9	0.9	4.7	2.4	---	---	---	---	PACE
MW-3	12/17/93	40.13	15.82	---	24.31	---	---	---	---	---	---	---	---	---	---	---
MW-3	12/23/93	40.13	---	---	---	500	---	9.8	1.5	3.3	2.1	---	---	---	---	PACE
QC-1	(h) 12/23/93	40.13	---	---	---	480	---	9.2	ND<0.5	5.4	5.3	---	---	---	---	PACE
MW-3	04/07/94	40.13	28.50	---	11.63	460	---	20	7.4	8.9	11	---	---	---	---	PACE
QC-1	(h) 04/07/94	40.13	---	---	---	460	---	20	7.7	9.0	11	---	---	---	---	PACE
MW-3	07/06/94	40.13	---	---	---	300	---	10	0.6	1.7	6.4	---	---	---	---	PACE
MW-3	10/07/94	40.13	27.65	---	12.48	620	---	28	ND<0.5	2.2	12	---	---	---	---	PACE
MW-3	01/27/95	40.13	27.65	---	12.48	---	---	---	---	---	---	---	---	---	---	---
MW-3	03/30/95	40.13	26.05	---	14.08	300	---	10	6.0	3.4	18	---	---	---	---	ATI
MW-3	06/20/95	40.13	19.49	---	20.64	170	---	7.2	3.4	0.85	15	---	---	---	---	ATI
MW-3	10/03/95	40.13	24.93	---	15.20	170	---	2.1	ND<0.50	0.81	8.0	6.7	---	---	---	ATI
MW-3	12/06/95	40.13	25.14	---	14.99	1700	---	6.7	3.1	2.8	210	64	---	---	---	ATI
QC-1	(h) 12/06/95	40.13	---	---	---	1400	---	6.1	3.0	1.7	190	53	---	---	---	ATI
MW-3	03/21/96	40.13	9.48	---	30.65	ND<50	---	0.5	ND<1	ND<1	1	ND<10	---	---	---	7.3 SPL
MW-3	06/21/96	40.13	11.60	---	28.53	ND<50	---	13	ND<1	ND<1	ND<1	12	---	---	---	7.6 SPL
MW-3	09/06/96	40.13	12.23	---	27.90	---	---	---	---	---	---	---	---	---	---	---
MW-3	09/09/96	40.13	---	---	---	ND<250	---	6.5	ND<5.0	ND<5.0	ND<5.0	ND<50	---	---	---	7.6 SPL
MW-3	12/19/96	40.13	10.46	---	29.67	ND<50	---	4.1	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	8.4 SPL
MW-3	03/17/97	40.13	9.86	---	30.27	50	---	ND<5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	7.4 SPL
MW-3	08/12/97	40.13	12.11	---	28.02	ND<50	---	0.79	ND<1.0	ND<1.0	ND<1.0	10	---	---	---	6.1 SPL

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MW-4	02/05/90	40.11	20.75	--	19.36	620	--	ND<0.5	9	ND<0.5	10	--	--	--	--	SUP
MW-4	02/14/91	40.11	21.73	--	18.38	180	--	ND<0.3	ND<0.3	0.4	2	--	--	--	--	SUP
MW-4	05/13/91	40.11	18.55	--	21.56	72	--	0.7	ND<0.3	ND<0.3	ND<0.3	--	--	--	--	SUP
MW-4	07/24/91	40.11	21.31	--	18.80	--	--	--	--	--	--	--	--	--	--	--
MW-4	10/03/91	40.11	22.57	--	17.54	57	--	ND<0.3	ND<0.3	ND<0.3	ND<0.3	--	--	--	--	SUP
MW-4	10/15/91	40.11	22.88	--	17.23	--	--	--	--	--	--	--	--	--	--	--
MW-4	12/04/91	40.11	22.54	--	17.57	--	--	--	--	--	--	--	--	--	--	--
MW-4	12/16/91	40.11	22.59	--	17.52	--	--	--	--	--	--	--	--	--	--	--
MW-4	01/06/92	40.11	22.00	--	18.11	480	--	0.8	3.2	1.9	7.7	--	--	--	--	ANA
MW-4	01/22/92	40.11	21.58	--	18.53	--	--	--	--	--	--	--	--	--	--	--
MW-4	01/28/92	40.11	21.42	--	18.69	--	--	--	--	--	--	--	--	--	--	--
MW-4	02/05/92	40.11	21.10	--	19.01	--	--	--	--	--	--	--	--	--	--	--
MW-4	02/12/92	40.11	20.74	--	19.37	--	--	--	--	--	--	--	--	--	--	--
MW-4	02/17/92	40.11	19.78	--	20.33	--	--	--	--	--	--	--	--	--	--	--
MW-4	04/03/92	40.11	16.80	--	23.31	--	--	--	--	--	--	--	--	--	--	--
MW-4	04/08/92	40.11	17.13	--	22.98	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	ANA
MW-4	04/14/92	40.11	17.74	--	22.37	--	--	--	--	--	--	--	--	--	--	--
MW-4	04/29/92	40.11	18.56	--	21.55	--	--	--	--	--	--	--	--	--	--	--
MW-4	05/07/92	40.11	19.10	--	21.01	--	--	--	--	--	--	--	--	--	--	--
MW-4	07/03/92	40.11	20.71	--	19.40	ND<50	--	0.6	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	ANA
MW-4	10/08/92	40.11	22.43	--	17.68	270	--	ND<0.5	2.1	2.5	3.2	--	--	--	--	ANA
MW-4	12/31/92	40.11	19.58	--	20.53	150	--	ND<0.5	ND<0.5	ND<0.5	1.3	--	--	--	--	ANA
MW-4	04/21/93	40.11	17.79	--	22.32	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	PACE
MW-4	07/07/93	40.11	18.44	--	21.67	160	--	1.2	5.4	3.8	19	--	--	--	--	PACE
MW-4	09/21/93	40.11	20.14	--	19.97	71	--	ND<0.5	1.9	ND<0.5	2.1	--	--	--	--	PACE
MW-4	12/17/93	40.11	19.80	--	20.31	--	--	--	--	--	--	--	--	--	--	--
MW-4	12/23/93	40.11	--	--	--	ND<50	--	3.1	1.6	0.6	3.8	--	--	--	--	PACE
MW-4	04/07/94	40.11	19.12	--	20.89	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	6.6	PACE
MW-4	07/06/94	40.11	19.90	--	20.21	62	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	4.1	PACE
MW-4	10/07/94	40.11	20.07	--	20.04	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	3.8	PACE
MW-4	01/27/95	40.11	13.72	--	26.39	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<1	--	--	--	2.7	ATI
MW-4	03/30/95	40.11	11.46	--	28.65	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	--	--	8.3	ATI
MW-4	06/20/95	40.11	14.78	--	25.33	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	--	--	--	ATI
MW-4	10/03/95	40.11	19.62	--	20.49	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	5.0	--	--	5.8	ATI
MW-4	12/06/95	40.11	19.91	--	20.20	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	47	--	--	5.7	ATI
MW-4	03/21/96	40.11	11.12	--	28.99	ND<50	--	ND<0.5	ND<1	ND<1	ND<1	ND<10	--	--	7.8	SPL
MW-4	06/21/96	40.11	12.21	--	27.90	ND<50	--	ND<0.5	ND<1	ND<1	ND<1	ND<10	--	--	7.9	SPL
MW-4	09/06/96	40.11	12.89	--	27.22	--	--	--	--	--	--	--	--	--	--	--
MW-4	09/09/96	40.11	--	--	--	ND<50	--	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	--	--	7.2	SPL
MW-4	12/19/96	40.11	11.01	--	29.10	ND<50	--	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	--	--	8.4	SPL
MW-4	03/17/97	40.11	10.42	--	29.69	--	--	--	--	--	--	--	--	--	--	--
MW-4	08/12/97	40.11	12.77	--	27.34	--	--	--	--	--	--	--	--	--	--	--

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
 BP OIL COMPANY SERVICE STATION NO. 11109
 4280 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-014

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (Feet)	(a)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (Feet)	(b)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TOG (ug/l)	HVOC (ug/l)	DO (ppm)	LAB
MW-5	10/03/91	39.55		18.08	---	21.47		79000	---	13000	7400	1400	6200	---	---	---	---	SUP
MW-5	10/15/91	39.55		18.55	---	21.00		---	---	---	---	---	---	---	---	---	---	---
MW-5	12/04/91	39.55		18.44	0.13	21.21		---	---	---	---	---	---	---	---	---	---	---
MW-5	12/16/91	39.55		18.66	0.01	20.90		---	---	---	---	---	---	---	---	---	---	---
MW-5	01/06/92	39.55		19.12	0.11	20.51		---	---	---	---	---	---	---	---	---	---	---
MW-5	01/22/92	39.55		14.59	---	24.96		---	---	---	---	---	---	---	---	---	---	---
MW-5	01/28/92	39.55		15.25	---	24.30		---	---	---	---	---	---	---	---	---	---	---
MW-5	02/05/92	39.55		15.58	SHEEN	23.97		---	---	---	---	---	---	---	---	---	---	---
MW-5	02/12/92	39.55		15.54	0.01	24.02		---	---	---	---	---	---	---	---	---	---	---
MW-5	02/17/92	39.55		13.98	SHEEN	25.57		---	---	---	---	---	---	---	---	---	---	---
MW-5	04/03/92	39.55		13.63	0.04	25.95		---	---	---	---	---	---	---	---	---	---	---
MW-5	04/08/92	39.55		13.17	0.01	26.39		---	---	---	---	---	---	---	---	---	---	---
MW-5	04/14/92	39.55		13.45	0.01	26.11		---	---	---	---	---	---	---	---	---	---	---
MW-5	04/29/92	39.55		13.75	0.07	25.85		---	---	---	---	---	---	---	---	---	---	---
MW-5	05/07/92	39.55		16.15	0.04	23.43		---	---	---	---	---	---	---	---	---	---	---
MW-5	07/03/92	39.55		17.67	0.08	21.94		---	---	---	---	---	---	---	---	---	---	---
MW-5	09/01/92	39.55		17.83	0.50	22.10		---	---	---	---	---	---	---	---	---	---	---
MW-5	10/08/92	39.55		17.86	0.92	22.38		---	---	---	---	---	---	---	---	---	---	---
MW-5	12/31/92	39.55		15.20	SHEEN	24.35		---	---	---	---	---	---	---	---	---	---	---
MW-5	04/21/93	39.55		12.64	0.02	26.93		---	---	---	---	---	---	---	---	---	---	---
MW-5	07/07/93	39.14	(i)	12.68	0.82	27.08		---	---	---	---	---	---	---	---	---	---	---
MW-5	09/21/93	39.14		14.35	SHEEN	24.79		---	---	---	---	---	---	---	---	---	---	---
MW-5	12/17/93	39.14		12.61	0.41	26.64		---	---	---	---	---	---	---	---	---	---	---
MW-5	04/07/94	39.14		30.00	---	9.14		66000	---	3000	1700	250	6800	---	---	---	---	PACE
MW-5	07/06/94	39.14		---	---	---		29000	---	1900	330	63	2700	---	---	---	---	PACE
MW-5	10/07/94	39.14		28.70	---	10.44		250000	---	2600	660	830	5200	---	---	---	4.2	PACE
QC-1	(h) 10/07/94	39.14		---	---	---		45000	---	2900	540	260	2600	---	---	---	---	PACE
MW-5	01/27/95	39.14		28.70	---	10.44		---	---	---	---	---	---	---	---	---	---	---
MW-5	03/30/95	39.14		28.95	---	10.19		50000	---	7900	2600	520	6400	---	---	---	5.5	ATI
QC-1	(h) 03/30/95	39.14		---	---	---		43000	---	7900	2500	440	6200	---	---	---	---	ATI
MW-5	06/20/95	39.14		22.54	---	16.60		34000	---	5100	1900	300	3700	---	---	---	---	ATI
QC-1	(h) 06/20/95	39.14		---	---	---		26000	---	3500	290	ND<25	3300	---	---	---	---	ATI
MW-5	10/03/95	39.14		18.84	---	20.30		12000	---	68	42	11	1600	330	---	---	---	ATI
QC-1	(h) 10/03/95	39.14		---	---	---		12000	---	46	39	10	1600	320	---	---	---	ATI
MW-5	12/06/95	39.14		19.07	---	20.07		16000	---	1200	93	51	700	600	---	---	---	ATI
MW-5	03/21/96	39.14		7.43	---	31.71		1500	---	89	28	6	250	ND<10	---	---	7.2	SPL
QC-1	(h) 03/21/96	39.14		---	---	---		1900	---	92	30	7	270	ND<10	---	---	---	SPL
MW-5	06/21/96	39.14		9.87	---	29.27		3500	---	740	150	19	400	ND<100	---	---	7.1	SPL
QC-1	(h) 06/21/96	39.14		---	---	---		2700	---	680	140	20	400	ND<50	---	---	---	SPL
MW-5	09/06/96	39.14		10.52	---	28.62		---	---	---	---	---	---	---	---	---	---	---
MW-5	09/09/96	39.14		---	---	---		82000	---	3100	1700	850	9100	ND<2500	---	---	7.5	SPL
QC-1	(h) 09/09/96	---		---	---	---		90000	---	2900	1600	670	6900	ND<2500	---	---	---	SPL
MW-5	12/19/96	39.14		8.62	---	30.52		41000	---	790	820	120	2040	ND<500	---	---	7.7	SPL
QC-1	(h) 12/19/96	---		---	---	---		26000	---	490	430	63	1140	ND<500	---	---	---	SPL
MW-5	03/17/97	39.14		8.22	---	30.92		5500	---	1.9	2.4	ND<1.0	ND<1.0	29	---	---	6.4	SPL
QC-1	(h) 03/17/97	---		---	---	---		6600	---	2.5	2.7	ND<1.0	ND<1.0	28	---	---	---	SPL
MW-5	08/12/97	39.14		12.18	0.22	27.13		33000	---	6400	2400	680	4400	ND<1000	---	---	6.8	SPL
QC-1	(h) 08/12/97	---		---	---	---		38000	---	6100	2500	720	4500	ND<500	---	---	---	SPL

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
 BP OIL COMPANY SERVICE STATION NO. 11109
 4280 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-014

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (Feet)	(a)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (Feet)	(b)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TOG (ug/l)	HVOC (ug/l)	DO (ppm)	LAB	
MW-6	10/03/91	41.59		20.73	---	20.86		ND<50	---	0.7	0.8	ND<0.3	1.3	---	---	---	---	SUP	
MW-6	10/15/91	41.59		21.20	---	20.39		---	---	---	---	---	---	---	---	---	---	---	
MW-6	12/04/91	41.59		21.26	---	20.33		---	---	---	---	---	---	---	---	---	---	---	
MW-6	12/16/91	41.59		21.12	---	20.47		---	---	---	---	---	---	---	---	---	---	---	
MW-6	01/06/92	41.59		20.29	---	21.30		ND<50	---	ND<0.5	ND<0.5	ND<0.5	1.6	---	---	---	---	ANA	
MW-6	01/22/92	41.59		20.12	---	21.47		---	---	---	---	---	---	---	---	---	---	---	
MW-6	01/28/92	41.59		20.20	---	21.39		---	---	---	---	---	---	---	---	---	---	---	
MW-6	02/05/92	41.59		20.09	---	21.50		---	---	---	---	---	---	---	---	---	---	---	
MW-6	02/12/92	41.59		19.15	---	22.44		---	---	---	---	---	---	---	---	---	---	---	
MW-6	02/17/92	41.59		18.02	---	23.57		---	---	---	---	---	---	---	---	---	---	---	
MW-6	04/03/92	41.59		16.62	---	24.97		---	---	---	---	---	---	---	---	---	---	---	
MW-6	04/08/92	41.59		17.06	---	24.53		ND<50	---	0.6	ND<0.5	0.8	ND<0.5	---	---	---	---	ANA	
MW-6	04/14/92	41.59		17.23	---	24.36		---	---	---	---	---	---	---	---	---	---	---	
MW-6	04/29/92	41.59		18.12	---	23.47		---	---	---	---	---	---	---	---	---	---	---	
MW-6	05/07/92	41.59		18.52	---	23.07		---	---	---	---	---	---	---	---	---	---	---	
MW-6	07/03/92	41.59		19.71	---	21.88		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	ANA	
MW-6	10/08/92	41.59		21.22	---	20.37		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	ANA	
QC-1	(h)	10/08/92		41.59	---	21.22		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	ANA	
MW-6	12/31/92	41.59		21.33	---	20.26		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	ANA	
MW-6	04/21/93	41.59		16.45	---	25.14		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE	
MW-6	07/07/93	41.59		18.68	---	22.91		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	29	(i)	---	PACE	
MW-6	09/21/93	41.59		19.64	---	21.95		ND<50	---	ND<0.5	ND<0.5	ND<0.5	1.6	---	---	---	---	PACE	
MW-6	12/17/93	41.59		21.08	---	20.51		---	---	---	---	---	---	---	---	---	---	---	
MW-6	12/23/93	41.59		---	---	---		ND<50	---	ND<0.5	0.5	ND<0.5	0.6	---	---	---	---	PACE	
MW-6	04/07/94	41.59		21.27	---	20.32		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	6.1	PACE	
MW-6	07/06/94	41.59		19.81	---	21.78		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	4.0	PACE	
QC-1	(h)	07/06/94		41.59	---	---		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE	
MW-6	10/07/94	41.59		21.25	---	20.34		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	24	(j)	---	3.5	PACE
MW-6	01/27/95	41.59		12.39	---	29.20		ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	---	---	4.2	ATI
MW-6	03/30/95	41.59		11.34	---	30.25		ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	6.1	ATI
MW-6	06/20/95	41.59		15.12	---	26.47		ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	ATI
MW-6	10/03/95	41.59		20.68	---	20.91		ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	66	---	---	---	6.4	ATI
MW-6	12/06/95	41.59		23.77	---	17.62		ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	45	---	---	---	5.7	ATI
MW-6	03/21/96	41.59		11.55	---	30.04		ND<50	---	ND<0.5	ND<1	ND<1	ND<1	41	---	---	---	9.1	SPL
MW-6	06/21/96	41.59		12.60	---	28.99		ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	---	---	8.6	SPL
MW-6	09/06/96	41.59		13.25	---	28.34		---	---	---	---	---	---	---	---	---	---	---	---
MW-6	09/09/96	41.59		---	---	---		ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	22/22	(k)	---	---	7.9	SPL
MW-6	12/19/96	41.59		11.45	---	30.14		ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	7.7	SPL
MW-6	03/17/97	41.59		10.80	---	30.79		---	---	---	---	---	---	---	---	---	---	---	---
MW-6	06/12/97	41.59		13.11	---	28.48		---	---	---	---	---	---	---	---	---	---	---	---

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 BP OIL COMPANY SERVICE STATION NO. 11109
 4280 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-014

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (Feet)	(a)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (Feet)	(b)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TOG (ug/l)	HVOC (ug/l)	DO (ppm)	LAB
MW-7	10/03/91	40.64		14.93	--	25.71		360	--	62	13	3.4	20	--	--	--	--	SUP
MW-7	10/15/91	40.64		15.16	--	25.48		--	--	--	--	--	--	--	--	--	--	--
MW-7	12/04/91	40.64		15.41	--	25.23		--	--	--	--	--	--	--	--	--	--	--
MW-7	12/16/91	40.64		15.21	--	25.43		--	--	--	--	--	--	--	--	--	--	--
MW-7	01/08/92	40.64		14.56	--	28.08		1100	--	170	ND<0.5	24	23	--	--	--	--	ANA
MW-7	01/22/92	40.64		14.63	--	28.01		--	--	--	--	--	--	--	--	--	--	--
MW-7	01/28/92	40.64		14.73	--	25.91		--	--	--	--	--	--	--	--	--	--	--
MW-7	02/05/92	40.64		14.58	--	28.06		--	--	--	--	--	--	--	--	--	--	--
MW-7	02/12/92	40.64		13.94	--	26.70		--	--	--	--	--	--	--	--	--	--	--
MW-7	02/17/92	40.64		13.10	--	27.54		--	--	--	--	--	--	--	--	--	--	--
MW-7	04/03/92	40.64		12.66	--	27.98		--	--	--	--	--	--	--	--	--	--	--
MW-7	04/08/92	40.64		12.77	--	27.87		750	--	150	ND<0.5	23	9.9	--	--	--	--	ANA
MW-7	04/14/92	40.64		13.02	--	27.62		--	--	--	--	--	--	--	--	--	--	--
MW-7	04/29/92	40.64		13.59	--	27.05		--	--	--	--	--	--	--	--	--	--	--
MW-7	05/07/92	40.64		13.95	--	26.69		--	--	--	--	--	--	--	--	--	--	--
MW-7	07/03/92	40.64		14.73	--	25.91		660	--	210	ND<2.5	33	8	--	--	--	--	ANA
MW-7	10/08/92	40.64		15.75	--	24.89		320	--	49	1.4	13	6.2	--	--	--	--	ANA
MW-7	12/31/92	40.64		13.57	--	27.07		900	--	100	ND<2.5	28	4.3	--	--	--	--	ANA
MW-7	04/21/93	40.64		14.56	--	28.08		510	--	83	1.2	10	5.8	--	--	--	--	PACE
MW-7	07/07/93	40.32	(f)	13.40	--	26.92		1100	--	160	2.0	27	4.0	--	--	--	--	PACE
QC-1	(h) 07/07/93	40.32		--	--	--		1100	--	170	1.9	29	2.8	--	--	--	--	PACE
MW-7	09/21/93	40.32		14.40	--	25.92		690	--	150	3.1	26	5.7	--	--	--	--	PACE
QC-1	(h) 09/21/93	40.32		--	--	--		640	--	140	1.7	23	2.4	--	--	--	--	PACE
MW-7	12/17/93	40.32		13.65	--	26.67		--	--	--	--	--	--	--	--	--	--	--
MW-7	12/23/93	40.32		--	--	--		250	--	64	1.2	9.0	1.8	--	--	--	--	PACE
MW-7	04/07/94	40.32		30.62	--	9.70		140	--	32	1.4	ND<0.5	ND<0.5	--	--	--	--	PACE
MW-7	07/06/94	40.32		16.88	--	23.44		410	--	94	1.3	10	3.5	--	--	--	4.4	PACE
MW-7	10/07/94	40.32		25.59	--	14.73		ND<50	--	9.2	ND<0.5	ND<0.5	ND<0.5	--	--	--	4.9	PACE
MW-7	01/27/95	40.32		9.82	--	30.50		810	--	570	3	60	17	--	--	--	0	ATI
QC-1	(h) 01/27/95	--		--	--	--		930	--	620	4	77	21	--	--	--	--	ATI
MW-7	03/30/95	40.32		9.15	--	31.17		180	--	65	0.53	2.0	ND<1.0	--	--	--	7.8	ATI
MW-7	06/20/95	40.32		11.38	--	28.94		2800	--	980	ND<5.0	ND<5.0	43	--	--	--	--	ATI
MW-7	10/03/95	40.32		29.95	--	10.37		ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	--	--	--	ATI
MW-7	12/06/95	40.32		29.85	--	10.47		ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	--	--	--	ATI
MW-7	03/21/96	40.32		9.78	--	30.56		1000	--	390	2	40	13	ND<10	--	--	7.4	SPL
MW-7	06/21/96	40.32		11.01	--	29.31		ND<250	--	40	ND<5	ND<5	ND<5	ND<50	--	--	7.4	SPL
MW-7	09/06/96	40.32		11.68	--	28.64		--	--	--	--	--	--	--	--	--	--	--
MW-7	09/09/96	40.32		--	--	--		ND<250	--	13	ND<5.0	ND<5.0	ND<5.0	ND<50	--	--	7.2	SPL
MW-7	12/19/96	40.32		10.78	--	29.54		70	--	1.2	ND<1.0	1.4	ND<1.0	ND<10	--	--	8.3	SPL
MW-7	03/17/97	40.32		9.96	--	30.36		--	--	--	--	--	--	--	--	--	--	--
MW-7	08/12/97	40.32		11.44	--	28.88		--	--	--	--	--	--	--	--	--	--	--

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
 BP OIL COMPANY SERVICE STATION NO. 11109
 4280 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-014

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (Feet)	(a)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (Feet)	(b)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TOG (ug/l)	HVOC (ug/l)	DO (ppm)	LAB
MW-8	10/03/91	38.18		22.37	--	15.81		ND<50	--	ND<0.3	0.6	ND<0.3	0.9	--	--	--	--	SUP
MW-8	10/15/91	38.18		22.70	--	15.48		--	--	--	--	--	--	--	--	--	--	--
MW-8	12/04/91	38.18		22.44	--	15.74		--	--	--	--	--	--	--	--	--	--	--
MW-8	12/16/91	38.18		22.47	--	15.71		--	--	--	--	--	--	--	--	--	--	--
MW-8	01/06/92	38.18		21.94	--	16.24		ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	ANA
MW-8	01/22/92	38.18		21.44	--	16.74		--	--	--	--	--	--	--	--	--	--	--
MW-8	01/28/92	38.18		21.20	--	16.98		--	--	--	--	--	--	--	--	--	--	--
MW-8	02/05/92	38.18		20.88	--	17.30		--	--	--	--	--	--	--	--	--	--	--
MW-8	02/12/92	38.18		20.54	--	17.64		--	--	--	--	--	--	--	--	--	--	--
MW-8	02/17/92	38.18		19.99	--	18.19		--	--	--	--	--	--	--	--	--	--	--
MW-8	04/03/92	38.18		16.75	--	21.43		--	--	--	--	--	--	--	--	--	--	--
MW-8	04/08/92	38.18		16.57	--	21.61		ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	ANA
MW-8	(f) 04/14/92	38.18		--	--	--		--	--	--	--	--	--	--	--	--	--	--
MW-8	04/29/92	38.18		18.61	--	19.57		--	--	--	--	--	--	--	--	--	--	--
MW-8	05/07/92	38.18		18.41	--	19.77		--	--	--	--	--	--	--	--	--	--	--
MW-8	07/03/92	38.18		20.35	--	17.83		ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	ANA
MW-8	(f) 10/08/92	38.18		21.74	--	16.44		--	--	--	--	--	--	--	--	--	--	--
MW-8	12/31/92	38.18		19.09	--	19.09		ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	ANA
MW-8	04/21/93	38.18		18.92	--	19.26		ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	PACE
MW-8	07/07/93	38.18		17.76	--	20.42		ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	PACE
MW-8	09/21/93	38.18		19.71	--	18.47		ND<50	--	2.9	2.2	2.2	7.1	--	--	--	--	PACE
MW-8	12/17/93	38.18		21.33	--	16.85		--	--	--	--	--	--	--	--	--	--	--
MW-8	12/23/93	38.18		--	--	--		ND<50	--	ND<0.5	ND<0.5	ND<0.5	0.6	--	--	--	--	PACE
MW-8	04/07/94	38.18		21.51	--	16.67		ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	6.8	PACE
MW-8	07/06/94	38.18		17.41	--	20.77		ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	4.4	PACE
MW-8	10/07/94	38.18		19.20	--	18.98		ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	3.7	PACE
MW-8	01/27/95	38.18		12.25	--	25.93		ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<1	--	--	--	2.9	ATI
MW-8	03/30/95	38.18		10.35	--	27.83		ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	--	--	8.3	ATI
MW-8	06/20/95	38.18		13.37	--	24.81		ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	--	--	6.9	ATI
MW-8	(f) 10/03/95	38.18		--	--	--		--	--	--	--	--	--	--	--	--	--	--
MW-8	12/08/95	38.18		18.42	--	19.76		ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	47	--	--	5.3	ATI
MW-8	(f) 03/21/96	38.18		--	--	--		--	--	--	--	--	--	--	--	--	--	--
MW-8	06/21/96	38.18		13.03	--	25.15		ND<50	--	ND<0.5	ND<1	ND<1	ND<1	ND<10	--	--	7.0	SPL
MW-8	09/06/96	38.18		13.70	--	24.48		--	--	--	--	--	--	--	--	--	--	--
MW-8	09/09/96	38.18		--	--	--		ND<50	--	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	--	--	7.0	SPL
MW-8	12/19/96	38.18		11.93	--	26.25		ND<50	--	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	--	--	7.6	SPL
MW-8	03/17/97	38.18		11.29	--	26.89		--	--	--	--	--	--	--	--	--	--	--
MW-8	08/12/97	38.18		13.73	--	24.45		--	--	--	--	--	--	--	--	--	--	--

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
 BP OIL COMPANY SERVICE STATION NO. 11109
 4280 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-014

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (Feet)	DEPTH TO WATER (Feet) (a)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (Feet) (b)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TOG (ug/l)	HVOC (ug/l)	DO (ppm)	LAB
MW-9	10/03/91	41.25	14.12	---	27.13	ND<50	---	ND<0.3	0.4	ND<0.3	ND<0.3	---	---	---	---	SUP
MW-9	10/15/91	41.25	14.27	---	26.98	---	---	---	---	---	---	---	---	---	---	---
MW-9	12/04/91	41.25	13.84	---	27.41	---	---	---	---	---	---	---	---	---	---	---
MW-9	12/16/91	41.25	14.18	---	27.07	---	---	---	---	---	---	---	---	---	---	---
MW-9	01/06/92	41.25	13.42	---	27.83	ND<50	---	ND<0.5	ND<0.5	ND<0.5	0.9	---	---	---	---	ANA
MW-9	01/22/92	41.25	13.75	---	27.50	---	---	---	---	---	---	---	---	---	---	---
MW-9	01/28/92	41.25	14.76	---	26.49	---	---	---	---	---	---	---	---	---	---	---
MW-9	02/05/92	41.25	13.38	---	27.87	---	---	---	---	---	---	---	---	---	---	---
MW-9	02/12/92	41.25	11.86	---	29.39	---	---	---	---	---	---	---	---	---	---	---
MW-9	02/17/92	41.25	10.78	---	30.47	---	---	---	---	---	---	---	---	---	---	---
MW-9	04/03/92	41.25	11.63	---	29.62	---	---	---	---	---	---	---	---	---	---	---
MW-9	04/08/92	41.25	12.25	---	29.00	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	ANA
MW-9	04/14/92	41.25	12.32	---	28.93	---	---	---	---	---	---	---	---	---	---	---
MW-9	04/29/92	41.25	13.07	---	28.18	---	---	---	---	---	---	---	---	---	---	---
MW-9	05/07/92	41.25	14.43	---	26.82	---	---	---	---	---	---	---	---	---	---	---
MW-9	07/03/92	41.25	13.85	---	27.40	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	ANA
MW-9	10/06/92	41.25	14.89	---	26.36	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	ANA
MW-9	12/31/92	41.25	11.90	---	29.35	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	ANA
MW-9	04/21/93	41.25	13.68	---	27.57	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
MW-9	07/07/93	41.25	13.12	---	28.13	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
MW-9	09/21/93	41.25	14.00	---	27.25	ND<50	---	ND<0.5	ND<0.5	ND<0.5	0.9	---	---	---	---	PACE
MW-9	12/17/93	41.25	12.98	---	28.27	---	---	---	---	---	---	---	---	---	---	---
MW-9	12/23/93	41.25	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	0.9	---	---	---	---	PACE
MW-9	04/07/94	41.25	13.24	---	28.01	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	4.7	PACE
MW-9	07/06/94	41.25	13.77	---	27.48	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	3.9	PACE
MW-9	10/07/94	41.25	14.60	---	26.65	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	3.0	PACE
MW-9	01/27/95	41.25	8.47	---	32.78	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	---	2.5	ATI
MW-9	03/30/95	41.25	8.19	---	33.06	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	8.4	ATI
MW-9	06/20/95	41.25	11.25	---	30.00	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	8.1	ATI
MW-9	10/03/95	41.25	14.68	---	26.57	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	---	6.0	ATI
MW-9	12/06/95	41.25	16.07	---	25.18	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	46	---	---	5.4	ATI
MW-9	03/21/96	41.25	9.60	---	31.65	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	---	8.0	SPL
MW-9	06/21/96	41.25	10.86	---	30.39	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	---	7.8	SPL
MW-9	09/06/96	41.25	11.52	---	29.73	---	---	---	---	---	---	---	---	---	---	---
MW-9	09/09/96	41.25	---	---	---	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	20/21	(k)	---	7.3	SPL
MW-9	12/19/96	41.25	10.43	---	30.82	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	7.3	SPL
MW-9	03/17/97	41.25	9.87	---	31.38	---	---	---	---	---	---	---	---	---	---	---
MW-9	08/12/97	41.25	11.44	---	29.81	---	---	---	---	---	---	---	---	---	---	---

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
 BP OIL COMPANY SERVICE STATION NO. 11109
 4280 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-014

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (Feet)	(a)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (Feet)	(b)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TOG (ug/l)	HVOC (ug/l)	DO (ppm)	LAB
QC-2	(l)	10/08/92	---	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	ANA
QC-2	(l)	12/31/92	---	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	ANA
QC-2	(l)	04/21/93	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	PACE
QC-2	(l)	07/07/93	---	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	0.6	---	---	---	---	PACE
QC-2	(l)	09/21/93	---	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2	(l)	12/23/93	---	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2	(l)	04/07/94	---	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2	(l)	07/06/94	---	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2	(l)	10/07/94	---	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2	(l)	01/27/95	---	---	---	---	---	ND<50	---	ND<0.5	0.5	ND<0.5	ND<1	---	---	---	---	ATI
QC-2	(l)	03/30/95	---	---	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	ATI
QC-2	(l)	06/20/95	---	---	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	ATI
QC-2	(l)	10/03/95	---	---	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	---	---	ATI
QC-2	(l)	12/06/95	---	---	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	---	---	ATI
QC-2	(l)	03/21/96	---	---	---	---	---	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	---	---	---	---	SPL
QC-2	(l)	06/21/96	---	---	---	---	---	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	---	---	SPL

ABBREVIATIONS:

TPH-G Total petroleum hydrocarbons as gasoline
 TPH-D Total petroleum hydrocarbons as diesel
 B Benzene
 T Toluene
 E Ethylbenzene
 X Total xylenes
 MTBE Methyl tert butyl ether
 TOG Total oil and grease
 HVOC Halogenated volatile organic compounds
 DO Dissolved oxygen
 ug/l Micrograms per liter
 ppm Parts per million
 --- Not analyzed/measured/applicable
 ND Not detected above reported detection limit
 SUP Superior Analytical Laboratory
 ANA Anametrix, Inc.
 PACE Pace, Inc.
 ATI Analytical Technologies, Inc.
 SPL Southern Petroleum Laboratories

NOTES:

- (a) Top of casing elevations surveyed in feet above mean sea level, relative to the NGVD (1929).
- (b) Groundwater elevations adjusted assuming a specific gravity of 0.75 for free product.
- (c) Well destroyed during tank removal in November 1990.
- (d) Methylene chloride.
- (e) 1,2-Dichloroethane.
- (f) Well inaccessible.
- (g) Sample collected from MW-2 for TPH-D analysis received in laboratory 7 days after collection; sample exceeded EPA recommended holding time for TPH-D on a water matrix.
- (h) Blind duplicate.
- (i) Top of casing lowered.
- (j) A copy of the documentation for this data is included in Appendix C of Alisto report 10-014-07-001.
- (k) EPA Methods 8020/8260 used.
- (l) Travel blank.

TABLE 2 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING
 CHEVRON U.S.A. SERVICE STATION NO. 9-0076
 4265 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-014

WELL ID	DATE OF MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)
C-1	07/14/92	38.41	27.61	---	10.80
C-1	10/08/92	38.41	24.44	---	13.97
C-1	09/21/93	38.41	21.42	---	16.99
C-1	03/30/95	38.41	12.02	---	26.39
C-1	06/20/95	38.41	14.40	---	24.01
C-1	03/21/96	38.41	11.65	---	26.76
C-1	09/06/96	38.41	16.75	---	21.66
C-1	12/19/96	38.41	13.98	---	24.43
C-1	03/17/97	38.41	12.78	---	25.63
C-1	06/11/97	38.41	15.16	---	23.25
C-1	09/17/97	38.41	16.94	---	21.47
C-2	07/14/92	37.47	---	---	---
C-2	10/08/92	37.47	---	---	---
C-2	09/21/93	37.47	26.29	---	11.18
C-2	03/30/95	37.47	17.18	---	20.29
C-2	06/20/95	37.47	18.95	---	18.52
C-2	03/21/96	37.47	16.17	---	21.30
C-2	09/06/96	37.47	21.14	0.04	16.36
C-2	12/19/96	37.47	17.55	0.03	19.94
C-2	03/17/97	37.47	18.59	---	18.88
C-2	06/11/97	37.47	21.30	---	16.17
C-2	09/17/97	37.47	23.14	---	14.33
C-3	07/14/92	38.37	27.87	---	10.50
C-3	10/08/92	38.37	28.55	---	9.82
C-3	09/21/93	38.37	26.22	---	12.15
C-3	03/30/95	38.37	18.42	---	19.95
C-3	06/20/95	38.37	19.79	---	18.58
C-3	03/21/96	38.37	17.85	---	20.52
C-3	09/06/96	38.37	21.63	---	16.74
C-3	12/19/96	38.37	22.30	---	16.07
C-3	03/17/97	38.37	18.95	---	19.42
C-3	06/11/97	38.37	21.15	---	17.23
C-3	09/17/97	38.37	22.41	---	15.96

TABLE 2 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING
 CHEVRON U.S.A. SERVICE STATION NO. 9-0076 -
 4265 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-014

WELL ID	DATE OF MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)
C-4	07/14/92	36.49	26.89	---	9.60
C-4	10/08/92	36.49	27.79	---	8.70
C-4	09/21/93	36.49	25.51	---	10.98
C-4	03/30/95	36.49	14.86	---	21.63
C-4	06/20/95	36.49	16.90	---	19.59
C-4	03/21/96	36.49	14.10	---	22.39
C-4	09/06/96	36.49	20.13	---	16.36
C-4	12/19/96	36.49	16.92	---	19.57
C-4	03/17/97	36.49	17.40	---	19.09
C-4	06/11/97	36.49	18.34	---	18.15
C-4	09/17/97	36.49	21.46	---	15.03
C-5	07/14/92	38.50	28	---	10.50
C-5	10/08/92	38.50	28.65	---	9.85
C-5	09/21/93	38.50	26.36	---	12.14
C-5	03/30/95	38.50	18.54	---	19.96
C-5	06/20/95	38.50	20.13	---	18.37
C-5	03/21/96	38.50	18.40	---	20.10
C-5	09/06/96	38.50	21.90	---	16.60
C-5	12/19/96	38.50	21.15	---	17.35
C-5	03/17/97	38.50	19.84	---	18.66
C-5	06/11/97	38.50	21.60	---	16.90
C-5	09/17/97	38.50	27.83	---	10.67
C-6	07/14/92	35.40	38.89	---	-3.49
C-6	10/08/92	35.40	38.67	---	-3.27
C-6	09/21/93	35.40	33.98	---	1.42
C-6	03/30/95	35.40	26.38	---	9.02
C-6	06/20/95	35.40	25.01	---	10.39
C-6	03/21/96	35.40	23.12	---	12.28
C-6	09/06/96	35.40	24.83	---	10.57
C-6	12/19/96	35.40	24.50	---	10.90
C-6	03/17/97	35.40	22.59	---	12.81
C-6	06/11/97	35.40	23.76	---	11.64
C-6	09/17/97	35.40	24.74	---	10.66

TABLE 2 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING
 - CHEVRON U.S.A. SERVICE STATION NO. 9-0076
 4265 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-014

WELL ID	DATE OF MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)
C-7	07/14/92	35.19	39.77	---	-4.58
C-7	10/08/92	35.19	39.14	---	-3.95
C-7	09/21/93	35.19	35.46	---	-0.27
C-7	03/30/95	35.19	27.60	---	7.59
C-7	06/20/95	35.19	27.87	---	7.32
C-7	03/21/96	35.19	27.85	---	7.34
C-7	09/06/96	35.19	28.35	---	6.84
C-7	12/19/96	35.19	29.11	---	6.08
C-7	03/17/97	35.19	27.14	---	8.05
C-7	06/11/97	35.19	28.05	---	7.14
C-7	09/17/97	35.19	29.00	---	6.19
C-8	07/14/92	34.68	39.02	---	-4.34
C-8	10/08/92	34.68	38.68	---	-4.00
C-8	09/21/93	34.68	35.30	---	-0.62
C-8	03/30/95	34.68	29.24	---	5.44
C-8	06/20/95	34.68	28.34	---	6.34
C-8	03/21/96	34.68	28.65	---	6.03
C-8	09/06/96	34.68	28.70	---	5.98
C-8	12/19/96	34.68	29.70	---	4.98
C-8	03/17/97	34.68	27.76	---	6.92
C-8	06/11/97	34.68	28.81	---	5.87
C-8	09/17/97	34.68	29.36	---	5.32
C-9	03/17/97	30.68	27.56	---	3.11
C-9	06/11/97	30.68	28.27	---	3.11
C-9	09/17/97	30.68	28.63	---	3.11

NOTES:

- (a) Top of casing elevations surveyed relative to 1929 NGVD.
Measured in feet above mean sea level.
- (b) Groundwater elevations in feet above mean sea level.
- Not measured/available.

Source: Groundwater data collected by Blaine Tech Services Inc.

TABLE 3 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING
 SHELL SERVICE STATION
 4411 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-014

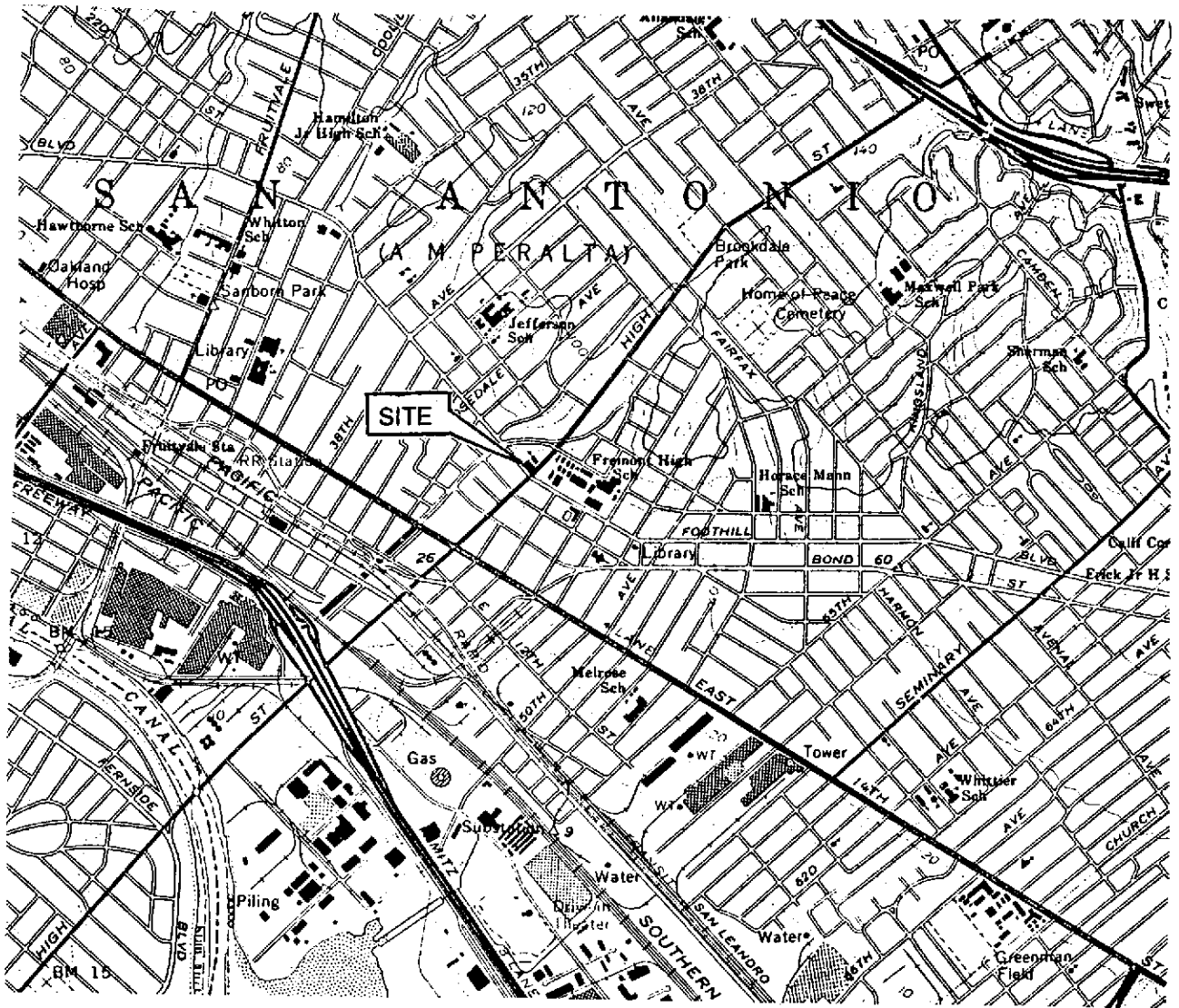
WELL ID	DATE OF MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)
S-1	03/30/95	38.31	6.09	32.22
S-1	06/20/95	38.31	7.30	31.01
S-1	12/06/95	38.31	11.64	26.67
S-1	03/21/96	38.31	6.87	31.44
S-1	06/21/96	38.31	8.65	29.66
S-1	09/06/96	38.31	10.50	27.81
S-1	12/19/96	38.31	8.24	30.07
S-1	03/17/97	38.31	7.26	31.05
S-1	06/11/97	38.31	10.69	27.62
S-1	09/17/97	38.31	10.26	28.05
S-2	03/30/95	38.79	7.86	30.93
S-2	06/20/95	38.79	9.51	29.28
S-2	12/06/95	38.79	10.52	28.27
S-2	03/21/96	38.79	8.60	30.19
S-2	06/21/96	38.79	9.95	28.84
S-2	09/06/96	38.79	10.50	28.29
S-2	12/19/96	38.79	9.40	29.39
S-2	03/17/97	38.79	9.82	28.97
S-2	06/11/97	38.79	10.18	28.61
S-2	09/17/97	38.79	9.90	28.89
S-3	03/30/95	37.33	7.06	30.27
S-3	06/20/95	37.33	8.15	29.18
S-3	12/06/95	37.33	10.53	26.80
S-3	03/21/96	37.33	7.32	30.01
S-3	06/21/96	37.33	8.85	28.48
S-3	09/06/96	37.33	10.10	27.23
S-3	12/19/96	37.33	8.36	28.97
S-3	03/17/97	37.33	8.57	28.76
S-3	06/11/97	37.33	9.26	28.07
S-3	09/17/97	37.33	9.62	27.71

NOTES:

(a) Top of casing elevations surveyed relative to 1929 NGVD.
 Measured in feet above mean sea level.

(b) Groundwater elevations in feet above mean sea level.

SOURCE: Groundwater data has been collected by Weiss Associates and Blaine Tech.



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

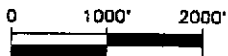
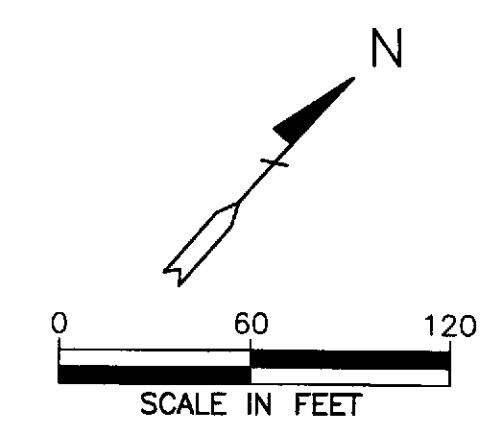
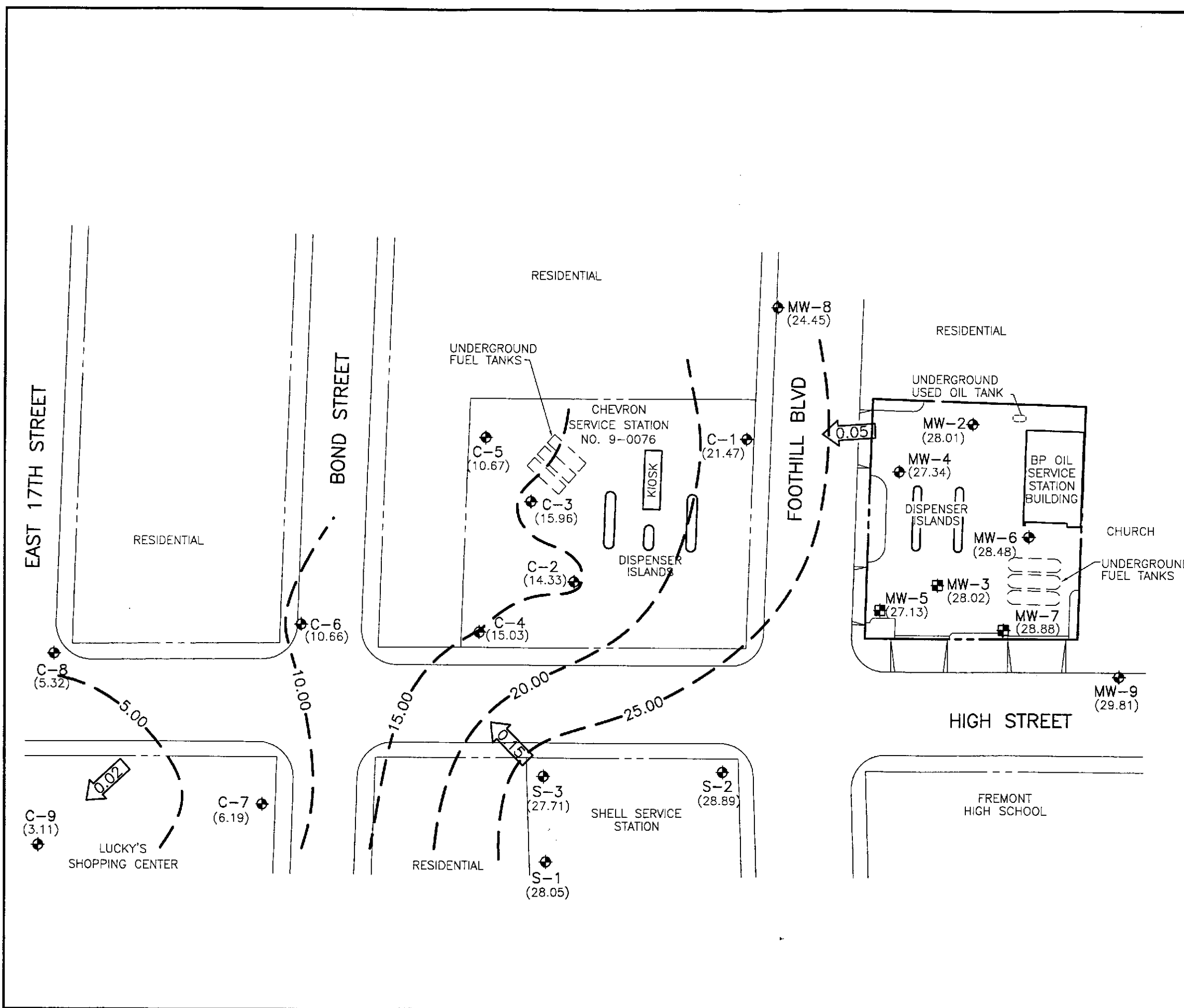


FIGURE 1
SITE VICINITY MAP

BP OIL SERVICE STATION NO. 11109
 4280 FOOTHILL BOULEVARD
 OAKLAND, CALIFORNIA
 PROJECT NO. 10-014



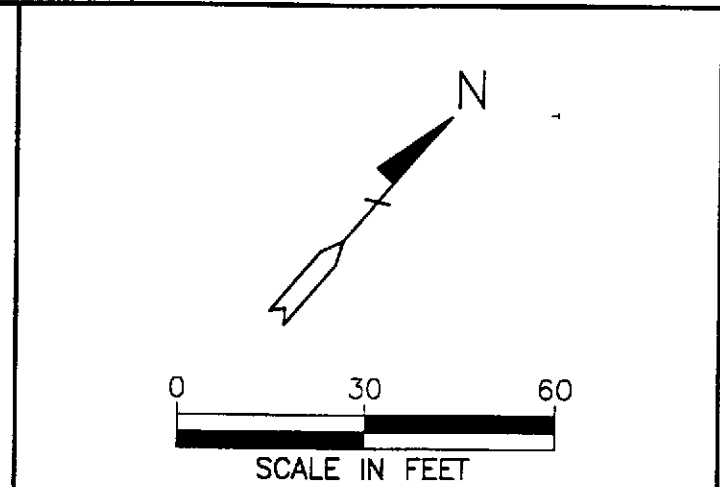
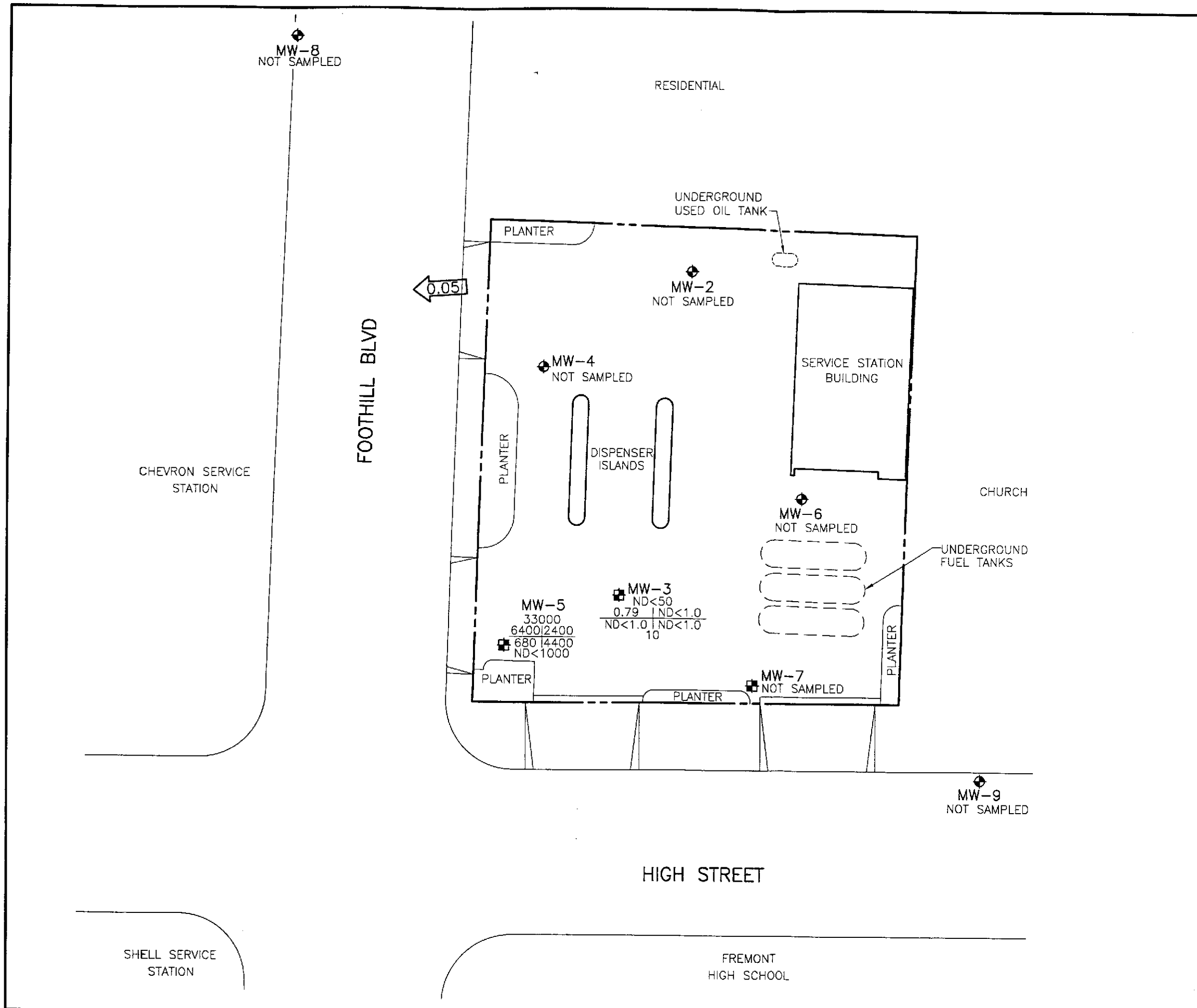
ALISTO ENGINEERING GROUP
 WALNUT CREEK, CALIFORNIA



- LEGEND**
- ◆ GROUNDWATER MONITORING WELL
 - GROUNDWATER RECOVERY WELL
 - (6.19) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
 - - - 10.00 GROUNDWATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL (CONTOUR INTERVAL-5.00 FEET)
 - ← 0.05 CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE IN FOOT PER FOOT

NOTE:
Wells associated with Shell and Chevron Stations were monitored on September 17, 1997.

FIGURE 2
POTENTIOMETRIC GROUNDWATER ELEVATION CONTOUR MAP
AUGUST 12, 1997
BP OIL SERVICE STATION NO. 11109
4280 FOOTHILL BOULEVARD
OAKLAND, CALIFORNIA
PROJECT NO. 10-014



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
- ←0.05
CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE IN FOOT PER FOOT

FIGURE 3
CONCENTRATIONS OF PETROLEUM HYDROCARBONS IN GROUNDWATER
AUGUST 12, 1997
 BP OIL SERVICE STATION NO. 11109
 4280 FOOTHILL BOULEVARD
 OAKLAND, CALIFORNIA
 PROJECT NO. 10-014

APPENDIX A
WATER SAMPLING FIELD SURVEY FORMS

ALISTO

Field Report / Sampling Data Sheet

ENGINEERING
GROUP
1575 TREAT BOULEVARD, SUITE 201

Project No. 10-014-08001
Address 4280 Foothill Blvd
Contract No. H176522
Station No. BP 11109 Sampler:

Date: 8/12/07
Day: MTWTF
City: Oakland

DEPTH TO GROUNDWATER SUMMARY

WELL ID	SAMPLE ID	WELL DIAM	TOTAL DEPTH	DEPTH TO WATER	PRODUCT THICKNESS	TIME MONITORED	COMMENTS:
MW-2	NA	2"	30.10	12.11	0.22		Not Sampled Depth to water 13.21
MW-3	S-1	4"	31.80	12.11	0.22		
MW-4	NA	4"	34.28	12.77	0.22		Not Sampled
MW-5	S-2, 3	4"		12.18	0.22		Duplicate Purge product of sample
MW-6	NA	4"	34.28	13.44	0.22		Not Sampled
MW-7	NA	6"	33.42	11.44	0.22		Not Sampled
MW-8	NA	2"	29.71	13.13	0.22		Not Sampled
MW-9	NA	2"	29.31	11.44	0.22		Not Sampled 17:05-4 Trip Blank

FIELD INSTRUMENT CALIBRATION DATA

pH METER U-10 4.00 4.02 7.00 7.00 10.00 10.00 TEMPERATURE COMPENSATED ON TIME 16:00
D.O. METER U-10 ZERO d.O. SOLUTION 0.0 BAROMETRIC PRESSURE ✓ TEMP 88° WEATHER clear, hot
CONDUCTIVITY METER U-10 10.000 10.00 TURBIDITY METER 5.0 NTU OTHER _____
LEAK DETECTOR: _____ ALARM MODE _____ NON ALARM MODE _____

Well ID	Depth to Water	Diam	Cap/Lock	Product	Dept	Iridescence	Gal.	Time	Temp *F	pH	E.C.m/s	D.O.	
MW-3	12.11	4"	OK	0.22	Y	(N)	12	16:20	76.3	7.14	1.28	6.0	<input type="checkbox"/> EPA 601 _____ <input checked="" type="checkbox"/> TPH-G/BTEX <u>not BSE</u>
Total Depth - Water Level= x Well Vol. Factor= x#vol. to Purge PurgeVol.							18	16:25	76.3	7.18	1.27		<input type="checkbox"/> TPH Diesel _____ <input type="checkbox"/> TOG 5520 _____
Purge Method: <input type="checkbox"/> Surface Pump <input type="checkbox"/> Disp. Tube <input type="checkbox"/> Winch <input type="checkbox"/> Disp. Bailer(s) <input type="checkbox"/> OSys Port							18	16:25	76.3	7.13	1.28	6.1	TIME/SAMPLE ID
Comments: <u>end purge, parameters stable</u>													<u>S-1 16:30</u>

Well ID	Depth to Water	Diam	Cap/Lock	Product	Dept	Iridescence	Gal.	Time	Temp *F	pH	E.C.	D.O.	
MW-5	12.18	4"	OK	0.22	Y	N	17	16:58	76.4	7.02	0.80	6.4	<input type="checkbox"/> EPA 601 _____ <input checked="" type="checkbox"/> TPH-G/BTEX <u>not BSE</u>
Total Depth - Water Level= x Well Vol. Factor= x#vol. to Purge PurgeVol.							19	17:00	76.4	7.02	0.81		<input type="checkbox"/> TPH Diesel _____ <input type="checkbox"/> TOG 5520 _____
Purge Method: <input type="checkbox"/> Surface Pump <input type="checkbox"/> Disp. Tube <input type="checkbox"/> Winch <input type="checkbox"/> Disp. Bailer(s) <input type="checkbox"/> OSys Port							20	17:02	76.4	7.21	0.84	6.8	TIME/SAMPLE ID
Comments: <u>Vault full of water, duplicate</u>													<u>S-2, S-3 17:08/17:30</u>

End purge well stable, S-3 PAGE _____ OF _____

APPENDIX B

LABORATORY REPORT AND CHAIN OF CUSTODY RECORD



HOUSTON LABORATORY

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

August 22, 1997

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

The following report contains analytical results for samples received at Southern Petroleum Laboratories (SPL) on August 14, 1997. The samples were assigned to Certificate of Analysis No.(s)9708585 and analyzed for all parameters as listed on the chain of custody.

There were no analytical problems encountered with this group of samples and all quality control data was within acceptance limits.

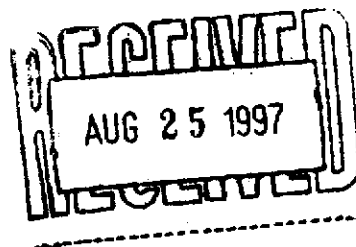
If you have any questions or comments pertaining to this data report, please do not hesitate to contact me. Please reference the above Certificate of Analysis No. during any inquiries.

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

A handwritten signature in cursive script, appearing to read 'Brett VanDelinder', is written over a horizontal line.

Brett VanDelinder
Project Manager





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

Southern Petroleum Laboratories, Inc.

Certificate of Analysis Number 97-08-585

Approved for Release by:



Brett VanDelinder, Project Manager

7.32.97
Date:

Greg Grandits
Laboratory Director

Idelis Williams
Quality Assurance Officer

The attached analytical data package may not be reproduced except in full without the express written approval of this laboratory.



Certificate of Analysis No. H9-9708585-01

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.#
H1756522, COC#084719
DATE: 08/22/97

PROJECT: BP Oil # 11109
SITE: 4280 FootHill, Oakland, CA
SAMPLED BY: Alisto Engineering
SAMPLE ID: S-1

PROJECT NO: 10-014-3-1
MATRIX: WATER
DATE SAMPLED: 08/12/97 16:30:00
DATE RECEIVED: 08/14/97

ANALYTICAL DATA

Table with 5 columns: PARAMETER, RESULTS, DETECTION LIMIT, UNITS. Rows include MTBE, Benzene, Toluene, Ethylbenzene, Total Xylene.

Surrogate % Recovery
1,4-Difluorobenzene 93
4-Bromofluorobenzene 87

Method 8020A***
Analyzed by: VHZ
Date: 08/21/97

Total Petroleum Hydrocarbons-Gasoline ND 0.05 P mg/L

Surrogate % Recovery
1,4-Difluorobenzene 100
4-Bromofluorobenzene 77

California LUFT Manual
Analyzed by: VHZ
Date: 08/21/97 04:00:00

(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.
SPL California License # 1903



HOUSTON LABORATORY

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

Certificate of Analysis No. H9-9708585-02

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

P.O.#
H1756522, COC#084719
DATE: 08/22/97

PROJECT: BP Oil # 11109
SITE: 4280 FootHill, Oakland, CA
SAMPLED BY: Alisto Engineering
SAMPLE ID: S-2

PROJECT NO: 10-014-8-1 *yes*
MATRIX: WATER
DATE SAMPLED: 08/12/97 17:08:00
DATE RECEIVED: 08/14/97

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	1000 P	µg/L
Benzene	6400	50 P	µg/L
Toluene	2400	100 P	µg/L
Ethylbenzene	680	100 P	µg/L
Total Xylene	4400	100 P	µg/L

Surrogate

% Recovery

1,4-Difluorobenzene
4-Bromofluorobenzene

110
97

Method 8020A***

Analyzed by: VHZ

Date: 08/21/97

Total Petroleum Hydrocarbons-Gasoline 33 5 P mg/L

Surrogate

% Recovery

1,4-Difluorobenzene
4-Bromofluorobenzene

110
90

California LUFT Manual

Analyzed by: VHZ

Date: 08/21/97 05:22:00

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.

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. H9-9708585-03

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

P.O.#
H1756522, COC#084719
DATE: 08/22/97

PROJECT: BP Oil # 11109
SITE: 4280 FootHill, Oakland, CA
SAMPLED BY: Alisto Engineering
SAMPLE ID: S-3

PROJECT NO: 10-014-~~8~~-1 *yes*
MATRIX: WATER
DATE SAMPLED: 08/12/97 17:12:00
DATE RECEIVED: 08/14/97

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	500 P	µg/L
Benzene	6100	25 P	µg/L
Toluene	2500	50 P	µg/L
Ethylbenzene	720	50 P	µg/L
Total Xylene	4500	50 P	µg/L

Surrogate	% Recovery
1,4-Difluorobenzene	113
4-Bromofluorobenzene	100

Method 8020A***
Analyzed by: VHZ
Date: 08/21/97

Total Petroleum Hydrocarbons-Gasoline 36 2.5 P mg/L

Surrogate	% Recovery
1,4-Difluorobenzene	133
4-Bromofluorobenzene	100

California LUFT Manual
Analyzed by: VHZ
Date: 08/21/97 04:54:00

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. H9-9708585-04

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

P.O.#
H1756522, COC#084719
DATE: 08/22/97

PROJECT: BP Oil # 11109
SITE: 4280 FootHill, Oakland, CA
SAMPLED BY: Alisto Engineering
SAMPLE ID: S-4

PROJECT NO: 10-014-~~2~~-1 *yes*
MATRIX: WATER
DATE SAMPLED: 08/12/97 17:20:00
DATE RECEIVED: 08/14/97

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	10 P	µg/L
Benzene	ND	0.5 P	µg/L
Toluene	ND	1.0 P	µg/L
Ethylbenzene	ND	1.0 P	µg/L
Total Xylene	ND	1.0 P	µg/L

Surrogate

% Recovery

1,4-Difluorobenzene
4-Bromofluorobenzene

93
87

Method 8020A***

Analyzed by: VHZ

Date: 08/21/97

Total Petroleum Hydrocarbons-Gasoline ND 0.05 P mg/L

Surrogate

% Recovery

1,4-Difluorobenzene
4-Bromofluorobenzene

93
70

California LUFT Manual

Analyzed by: VHZ

Date: 08/21/97 04:27:00

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



AMOUNT CONC. RECOVERY
ADDED MEASURED

LIMITS

Method 8020A ***

BATCH#:HP_J970819180700

WORK ORDER: Method Blank

CLIENT SAMPLE ID:

1,4-Difluorobenzene	30	30	100	74-	131
4-Bromofluorobenzene	30	23	77	43-	135

Method 8020A ***

BATCH#:HP_J970819180700

WORK ORDER: LCS

CLIENT SAMPLE ID:

1,4-Difluorobenzene	30	30	100	70-	131
4-Bromofluorobenzene	30	31	103	43-	135

Method 8020A ***

BATCH#:HP_J970819180700

WORK ORDER: Matrix Spike

CLIENT SAMPLE ID:9708682-03A

1,4-DIFLUOROBENZENE	30	30	100	70-	131
4-BROMOFLUOROBENZENE	30	27	90	43-	135

Method 8020A ***

BATCH#:HP_J970819180700

WORK ORDER: Matrix Spike Dup.

CLIENT SAMPLE ID:9708682-03A

1,4-Difluorobenzene	30	30	100	70-	131
4-Bromofluorobenzene	30	27	90	43-	135

Method 8020A***

BATCH#:HP_W970821092300

WORK ORDER: 9708585-01A

CLIENT SAMPLE ID:S-1

1,4-Difluorobenzene	30	28	93	70-	131
4-Bromofluorobenzene	30	26	87	43-	135

Method 8020A***

BATCH#:HP_W970821092300

WORK ORDER: 9708585-02A

CLIENT SAMPLE ID:S-2

1,4-Difluorobenzene	30	33.0000	110	70-	131
4-Bromofluorobenzene	30	29.0000	97	43-	135

Method 8020A***

BATCH#:HP_W970821092300

WORK ORDER: 9708585-03A

CLIENT SAMPLE ID:S-3

1,4-Difluorobenzene	30	34.0000	113	70-	131
4-Bromofluorobenzene	30	30.0000	100	43-	135

Method 8020A***

BATCH#:HP_W970821092300

WORK ORDER: 9708585-04A

CLIENT SAMPLE ID:S-4

1,4-Difluorobenzene	30	28	93	70-	131
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SURROGATE RECOVERY SUMMARY

PAGE 2

08/22/97 13:39:02

HOUSTON LABORATORY

8880 INTERCHANGE DRIVE

HOUSTON, TEXAS 77054

PHONE (713) 660-0901

AMOUNT ADDED	CONC. MEASURED	RECOVERY	LIMITS
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4-Bromofluorobenzene	30	26	87	43- 135
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Method 8020A***

BATCH#:HP_W970821092300

WORK ORDER: Method Blank

CLIENT SAMPLE ID:

1,4-Difluorobenzene	30	28	27.7	70- 131
4-Bromofluorobenzene	30	26	26.0	43- 135

Method 8020A***

BATCH#:HP_W970821092300

WORK ORDER: LCS

CLIENT SAMPLE ID:

1,4-Difluorobenzene	30	30	100	70- 131
4-Bromofluorobenzene	30	29	96.7	43- 135

Method 8020A***

BATCH#:HP_W970821092300

WORK ORDER: Matrix Spike

CLIENT SAMPLE ID:9708589-01A

1,4-DIFLUOROBENZENE	30	29	97	70- 131
4-BROMOFLUOROBENZENE	30	28	93	43- 135

Method 8020A***

BATCH#:HP_W970821092300

WORK ORDER: Matrix Spike Dup.

CLIENT SAMPLE ID:9708589-01A

1,4-Difluorobenzene	30	31	103	70- 131
4-Bromofluorobenzene	30	28	93	43- 135

California LUFT Manual

BATCH#:HP_W970821101700

WORK ORDER: 9708585-01A

CLIENT SAMPLE ID:S-1

1,4-Difluorobenzene	30	30	100	50- 150
4-Bromofluorobenzene	30	23	77	50- 150

California LUFT Manual

BATCH#:HP_W970821101700

WORK ORDER: 9708585-02A

CLIENT SAMPLE ID:S-2

1,4-Difluorobenzene	30	33.0000	110	50- 150
4-Bromofluorobenzene	30	27.0000	90	50- 150

California LUFT Manual

BATCH#:HP_W970821101700

WORK ORDER: 9708585-03A

CLIENT SAMPLE ID:S-3

1,4-Difluorobenzene	30	40.0000	133	50- 150
4-Bromofluorobenzene	30	30.0000	100	50- 150



08/22/97 13:39:02

HOUSTON LABORATORY

8880 INTERCHANGE DRIVE

HOUSTON, TEXAS 77054

PHONE (713) 660-0901

AMOUNT ADDED	CONC. MEASURED	RECOVERY	LIMITS
-----------------	-------------------	----------	--------

California LUFT Manual
WORK ORDER: 9708585-04A

BATCH#:HP_W970821101700

CLIENT SAMPLE ID:S-4

1,4-Difluorobenzene	30	28	93	50- 150
4-Bromofluorobenzene	30	21	70	50- 150

California LUFT Manual
WORK ORDER: Method Blank

BATCH#:HP_W970821101700

CLIENT SAMPLE ID:

1,4-Difluorobenzene	30	30	29.9	50- 150
4-Bromofluorobenzene	30	21	20.6	50- 150

California LUFT Manual
WORK ORDER: Matrix Spike

BATCH#:HP_W970821101700

CLIENT SAMPLE ID:9708589-02A

1,4-Difluorobenzene	30	30	100	50- 150
4-Bromofluorobenzene	30	31	103	50- 150

California LUFT Manual
WORK ORDER: Matrix Spike Dup.

BATCH#:HP_W970821101700

CLIENT SAMPLE ID:9708589-02A

1,4-Difluorobenzene	30	31	103	50- 150
4-Bromofluorobenzene	30	32	107	50- 150

- < = Recovery outside of control limits
- * = Methods for Chemical Analysis of Water & Wastes, 1983, EPA
- ** = Standard Methods for Examination of Water & Wastewater, 17th
- *** = Test Methods for Evaluating Solid Waste, EPA SW846, 3rd



Matrix: Aqueous
Units: µg/L

Batch Id: HP_W970821092300

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike		QC Limits(**) (Mandatory) % Recovery Range
			Result <1>	Recovery %	
MTBE	ND	50	47	94.0	20 - 110
Benzene	ND	50	46	92.0	62 - 121
Toluene	ND	50	47	94.0	66 - 136
Ethyl_Benzene	ND	50	47	94.0	70 - 136
O-Xylene	ND	50	47	94.0	74 - 134
M and P Xylene	ND	100	95	95.0	77 - 140

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
			MTBE	ND	20	16	80.0	17	85.0
BENZENE	ND	20	18	90.0	18	90.0	0	25	39 - 150
TOLUENE	ND	20	18	90.0	18	90.0	0	26	56 - 134
ETHYL_BENZENE	ND	20	18	90.0	18	90.0	0	38	61 - 128
O-XYLENE	ND	20	18	90.0	18	90.0	0	29	40 - 130
M AND P XYLENE	ND	40	36	90.0	36	90.0	0	20	43 - 152

Analyst: VHZ

Sequence Date: 08/21/97

SPL ID of sample spiked: 9708589-01A

Sample File ID: W_H7725.TX0

Method Blank File ID:

Blank Spike File ID: W_H7716.TX0

Matrix Spike File ID: W_H7720.TX0

Matrix Spike Duplicate File ID: W_H7721.TX0

* = Values Outside QC Range. x = 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 (4th Q '95)

(***) = Source: SPL-Houston Historical Data (3rd Q '96)

SAMPLES IN BATCH(SPL ID):

9708585-04A 9708585-03A 9708585-02A 9708790-06A
9708790-03A 9708589-01A 9708589-02A 9708585-01A



** SPL BATCH QUALITY CONTROL REPORT **
CA LUFT

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

Matrix: Aqueous
Units: mg/L

Batch Id: HP_W970821101700

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike		QC Limits(**) (Mandatory) % Recovery Range
			Result <1>	Recovery %	
Petroleum Hydrocarbons-Gas	ND	1.0	0.90	90.0	50 - 150

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
PETROLEUM HYDROCARBONS-GAS	ND	0.9	1.03	114	1.02	113	0.881	50	50 - 150

Analyst: VHZ

Sequence Date: 08/21/97

SPL ID of sample spiked: 9708589-02A

Sample File ID: WWH7726.TX0

Method Blank File ID:

Blank Spike File ID: WWH7718.TX0

Matrix Spike File ID: WWH7722.TX0

Matrix Spike Duplicate File ID: WWH7723.TX0

* = Values Outside QC Range. * = 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: Temporary Limits

(***) = Source: Temporary Limits

SAMPLES IN BATCH(SPL ID):

9708585-01A 9708585-04A 9708585-03A 9708585-02A
 9708790-06A 9708790-03A 9708589-03A 9708589-04A
 9708589-05A 9708589-06A 9708589-07A 9708774-13A
 9708774-14A 9708774-15A 9708589-01A 9708589-02A

CHAIN OF CUSTODY

AND

SAMPLE RECEIPT CHECKLIST



9708585

CHAIN OF CUSTODY

No. 084719

Page 1 of 1

CONSULTANT'S NAME ALCSTO ENGINEERS		CONSULTANT'S ADDRESS 1575 Treat Blvd Ste 201 Walnut Creek CA 94598	
BP SITE NUMBER 11109	BP SITE / FACILITY ADDRESS 4280 Foothill, Oakland CA		CONSULTANT PROJECT NUMBER 10-014-8-1
CONSULTANT PROJECT MANGER Brendy Naylor		PHONE NUMBER 510 295 1650	FAX NUMBER 510 295 1823
BP CONTACT Scott Hooten	BP ADDRESS Renta W/F	PHONE NUMBER -	CONSULTANT CONTRACT NUMBER H1756522
LAB CONTACT	LABORATORY ADDRESS Houston TX	PHONE NUMBER -	FAX NO. -
BP CONTACT REQUESTING RUSH TAT (Print BP Contact Name)	RUSH REQUESTED OF (Print Consultant Contact Name)	DATE/TIME 8/13/97	SHIPMENT DATE 8/13/97
			SHIPMENT METHOD Fed Ex

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

ANALYSIS REQUIRED

AIRBILL NUMBER
3848470301

SAMPLE DESCRIPTION	COLLECTION DATE	COLLECTION TIME	MATRIX SOIL/WATER	CONTAINERS		PRESERVATIVE	LAB SAMPLE #	COMMENTS
				NO.	TYPE (VOL.)	LAB		
S-1	8/12/97	16:30	catr	3	vol			
S-2	↓	17:05	↓	↓	↓			
S-3	↓	17:12	↓	3	↓			
S-4	↓	17:20	↓	2	↓			

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	
P. Gylton		8/12/97	1410	P. Gylton		8/13/97	1402	
		8/13/97	1420	Jim [unclear] (SPC)		8/14/97	1015	

SPL Houston Environmental Laboratory

Sample Login Checklist

Date: 8/14/97	Time: 1015
--	---

SPL Sample ID:
9708585

		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:	4° C	
10	Method of sample delivery to SPL:	SPL Delivery	
		Client Delivery	
		FedEx Delivery (airbill #) 3848470301	
		Other:	
11	Method of sample disposal:	SPL Disposal /	
		HOLD	
		Return to Client	

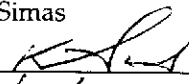
Name: <i>[Signature]</i>	Date: 8/14/97
---	--

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

BP Site Number: 11109
ERM Contact: H176522
Sampling Date: 08/12/97
Matrix Description: Water
Date Final Report Received: 08/25/97
Laboratory & Location: SPL, Houston, Texas

	Yes	No	N/A
1. Is BP contract release number consistent with analytical report?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Was report submitted within the specified timeframe?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Does report agree with the COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Are units consistent with the given matrix?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Were any target analytes/compounds detected in blanks (i.e., trip or equipment)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Are duplicate water samples within <u>7.0</u> %?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Are holding times met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Are surrogates within limits using laboratory criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Are MS/MSD acceptable using laboratory criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Are LCS results acceptable using laboratory criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

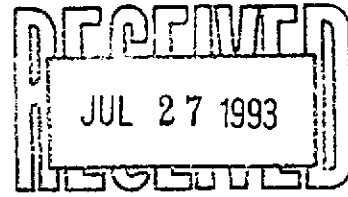
Notes: _____

Data Validation Completed by: Ken Simas
(signature): 
Date: 11/21/97

APPENDIX C
HISTORICAL MTBE DOCUMENTATION

REPORT OF LABORATORY ANALYSIS

July 26, 1993



Mr. Bill Howell
Alisto Engineering Group
1777 Oakland Blvd., Ste. 200
Walnut Creek, CA 94596

RE: PACE Project No. 430709.527
Client Reference: BP Station # 11109

Dear Mr. Howell:

Enclosed is the report of laboratory analyses for samples received July 09 - 13, 1993.

Please note that a peak eluting earlier than Benzene and suspected to be Methyl tert-butyl ether was detected in the following sample at the approximated level:

70 0110750/MW-6 29ug/L

Footnotes are given at the end of the report.

If you have any questions concerning this report, please feel free to contact us.

Sincerely,

A handwritten signature in cursive script that reads "Jim J. Oys".

Jim J. Oys
Project Manager

Enclosures

October 21, 1994

RECEIVED
OCT 24 1994

Mr. Bill Howell
Alisto Engineering Group
1777 Oakland Blvd., Ste. 200
Walnut Creek, CA 94596

RE: PACE Project No. 441010.509
Client Reference: BP Site #11109/10-014-04-001 03-002

Dear Mr. Howell:

Enclosed is the report of laboratory analyses for samples received October 10, 1994.

Please note that a peak eluting earlier than Benzene and suspected to be Methyl tert-butyl ether was detected in the following samples at the approximated levels:

S-3/70 0420962	24 ug/L	✓
S-6/70 0420997	31 ug/L	

Footnotes are given at the end of the report.

If you have any questions concerning this report, please feel free to contact us.

Sincerely,

Stacy P. Hoch

for Ronald M. Chew
Project Manager

Enclosures