GROUNDWATER MONITORING AND SAMPLING REPORT

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

Project No. 10-014-05-002

Prepared for:

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December 11, 1995

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INTRODUCTION

This report presents the results and findings of the October 3, 1995 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 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.

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	0.00	22.78	---	---	---	---	---	---	---	---	---	---	---
MW-1 (c)	02/05/90	38.19	---	0.00	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	02/05/90	41.22	21.90	0.00	19.31	1300	---	14	ND<0.1	9	13	---	---	---	---	SUP
MW-2	02/14/91	41.22	21.16	0.00	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	0.00	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	0.00	18.30	---	---	---	---	---	---	---	---	---	---	---
MW-2	10/03/91	41.22	24.90	0.00	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	0.00	17.12	---	---	---	---	---	---	---	---	---	---	---
MW-2	12/04/91	41.22	INACCESSIBLE	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	12/16/91	41.22	23.95	0.00	17.27	---	---	---	---	---	---	---	---	---	---	---
MW-2	01/06/92	41.22	23.30	0.00	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	0.00	18.08	---	---	---	---	---	---	---	---	---	---	---
MW-2	01/28/92	41.22	22.99	0.00	18.23	---	---	---	---	---	---	---	---	---	---	---
MW-2	02/05/92	41.22	22.63	0.00	18.59	---	---	---	---	---	---	---	---	---	---	---
MW-2	02/12/92	41.22	22.04	0.00	19.18	---	---	---	---	---	---	---	---	---	---	---
MW-2	02/17/92	41.22	20.84	0.00	20.38	---	---	---	---	---	---	---	---	---	---	---
MW-2	04/03/92	41.22	18.29	0.00	22.93	---	---	---	---	---	---	---	---	---	---	---
MW-2	04/08/92	41.22	18.86	0.00	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	0.00	21.77	---	---	---	---	---	---	---	---	---	---	---
MW-2	04/29/92	41.22	20.35	0.00	20.87	---	---	---	---	---	---	---	---	---	---	---
MW-2	05/07/92	41.22	20.84	0.00	20.38	---	---	---	---	---	---	---	---	---	---	---
MW-2	07/03/92	41.22	22.34	0.00	18.88	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	ANA
MW-2	10/08/92	41.22	23.73	0.00	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	0.00	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	0.00	23.54	ND<50	ND<50 (f)	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	ND<5000	ND	---	PACE
MW-2	07/07/93	41.22	20.30	0.00	20.92	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	1.0 (e)	---	PACE
MW-2	09/21/93	41.22	21.93	0.00	19.29	ND<50	---	0.9	0.7	0.7	2.6	---	---	---	---	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	---	---	---	---	PACE
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	---	---	---	5.9	PACE
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	---	---	---	3.1	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	---	---	---	2.8	PACE
MW-2	01/27/95	41.22	26.12	---	15.10	ND<50	440	ND<0.5	ND<0.5	ND<0.5	ND<1	---	ND<5000	---	4.8	ATI
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	---	---	---	7.2	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	---	---	---	6.0	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	ND<5.0	---	---	5.7	ATI

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-3		02/05/90	40.74		17.45	0.00	23.29		1400	---	15	ND<2.5	11	8	---	---	---	---	SUP
MW-3		02/14/91	40.74		18.52	0.00	22.22		320	---	8	ND<0.3	8	1	---	---	---	---	SUP
MW-3		05/13/91	40.74		19.32	0.00	21.42		640	---	13	ND<0.3	18	1	---	---	---	---	SUP
MW-3		07/24/91	40.74		20.69	0.00	20.05		---	---	---	---	---	---	---	---	---	---	---
MW-3		10/03/91	40.74		19.47	0.00	21.27		940	---	21	ND<0.3	23	2.1	---	---	---	---	SUP
MW-3		10/15/91	40.74		20.46	0.00	20.28		---	---	---	---	---	---	---	---	---	---	---
MW-3		12/04/91	40.74		18.29	0.00	22.45		---	---	---	---	---	---	---	---	---	---	---
MW-3		12/16/91	40.74		18.34	0.00	22.40		---	---	---	---	---	---	---	---	---	---	---
MW-3		01/06/92	40.74		18.50	0.00	22.24		580	---	6.1	1	6.1	7.1	---	---	---	---	ANA
MW-3		01/22/92	40.74		17.86	0.00	22.88		---	---	---	---	---	---	---	---	---	---	---
MW-3		01/28/92	40.74		15.84	0.00	24.90		---	---	---	---	---	---	---	---	---	---	---
MW-3		02/05/92	40.74		17.53	0.00	23.21		---	---	---	---	---	---	---	---	---	---	---
MW-3		02/12/92	40.74		17.15	0.00	23.59		---	---	---	---	---	---	---	---	---	---	---
MW-3		02/17/92	40.74		16.18	0.00	24.56		---	---	---	---	---	---	---	---	---	---	---
MW-3		04/03/92	40.74		14.80	0.00	25.94		---	---	---	---	---	---	---	---	---	---	---
MW-3		04/08/92	40.74		17.06	0.00	23.68		1100	---	30	4.6	32	11	---	---	---	---	ANA
MW-3		04/14/92	40.74		15.22	0.00	25.52		---	---	---	---	---	---	---	---	---	---	---
MW-3		04/29/92	40.74		15.90	0.00	24.84		---	---	---	---	---	---	---	---	---	---	---
MW-3		05/07/92	40.74		16.35	0.00	24.39		---	---	---	---	---	---	---	---	---	---	---
MW-3		07/03/92	40.74		17.74	0.00	23.00		1200	---	38	ND<2.5	24	ND<2.5	---	---	---	---	ANA
MW-3		10/08/92	40.74		19.06	0.00	21.68		1400	---	31	ND<0.5	25	13	---	---	---	---	ANA
MW-3		12/31/92	40.74		16.61	0.00	24.13		820	---	12	4.1	13	5.9	---	---	---	---	ANA
QC-1	(g)	12/31/92	40.74		---	---	---		960	---	11	3.6	10	3.8	---	---	---	---	ANA
MW-3		04/21/93	40.74		14.24	0.00	26.50		420	---	5.6	ND<0.5	3.9	1.4	---	---	---	---	PACE
QC-1	(g)	04/21/93	40.74		---	---	---		390	---	5.0	ND<0.5	3.7	1.5	---	---	---	---	PACE
MW-3		07/07/93	40.13	(h)	15.19	0.00	24.94		54	---	0.8	0.6	ND<0.5	ND<0.5	---	---	---	---	PACE
MW-3		09/21/93	40.13		16.58	0.00	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	(g)	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	(g)	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	---	---	---	4.8	PACE
MW-3		10/07/94	40.13		27.65	---	12.48		620	---	28	ND<0.5	2.2	12	---	---	---	4.4	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	---	---	---	7.6	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

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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-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	0.8	3.8	---	---	---	---	PACE
MW-4	04/07/94	40.11	19.12	---	20.99	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	---	---	---	3.6	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

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BP OIL COMPANY SERVICE STATION NO. 11109
4260 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	0.00	21.47		79000	---	13000	7400	1400	6200	---	---	---	---	SUP
MW-5		10/15/91	39.55		18.55	0.00	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	0.00	24.96		---	---	---	---	---	---	---	---	---	---	---
MW-5		01/28/92	39.55		15.25	0.00	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		17.63	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	(h)	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	26.84		---	---	---	---	---	---	---	---	---	---	---
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	(g)	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	(g)	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	(g)	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	(g)	10/03/95	39.14		---	---	---		12000	---	46	39	10	1600	320	---	---	---	ATI

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 (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-6		10/03/91	41.59	20.73	0.00	20.86	ND<50	---	0.7	0.8	ND<0.3	1.3	---	---	---	---	SUP
MW-6		10/15/91	41.59	21.20	0.00	20.39	---	---	---	---	---	---	---	---	---	---	---
MW-6		12/04/91	41.59	21.26	0.00	20.33	---	---	---	---	---	---	---	---	---	---	---
MW-6		12/16/91	41.59	21.12	0.00	20.47	---	---	---	---	---	---	---	---	---	---	---
MW-6		01/06/92	41.59	20.29	0.00	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	0.00	21.47	---	---	---	---	---	---	---	---	---	---	---
MW-6		01/28/92	41.59	20.20	0.00	21.39	---	---	---	---	---	---	---	---	---	---	---
MW-6		02/05/92	41.59	20.09	0.00	21.50	---	---	---	---	---	---	---	---	---	---	---
MW-6		02/12/92	41.59	19.15	0.00	22.44	---	---	---	---	---	---	---	---	---	---	---
MW-6		02/17/92	41.59	18.02	0.00	23.57	---	---	---	---	---	---	---	---	---	---	---
MW-6		04/03/92	41.59	16.62	0.00	24.97	---	---	---	---	---	---	---	---	---	---	---
MW-6		04/08/92	41.59	17.06	0.00	24.53	ND<50	---	0.6	ND<0.5	0.8	ND<0.5	---	---	---	---	ANA
MW-6		04/14/92	41.59	17.23	0.00	24.36	---	---	---	---	---	---	---	---	---	---	---
MW-6		04/29/92	41.59	18.12	0.00	23.47	---	---	---	---	---	---	---	---	---	---	---
MW-6		05/07/92	41.59	18.52	0.00	23.07	---	---	---	---	---	---	---	---	---	---	---
MW-6		07/03/92	41.59	19.71	0.00	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	0.00	20.37	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	ANA
QC-1	(g)	10/08/92	41.59	21.22	0.00	20.37	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	ANA
MW-6		12/31/92	41.59	21.33	0.00	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	0.00	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	0.00	22.91	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
MW-6		09/21/93	41.59	19.64	0.00	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	(g)	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	---	---	---	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

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-7		10/03/91	40.64		14.93	0.00	25.71		360	---	62	13	3.4	20	---	---	---	---	SUP
MW-7		10/15/91	40.64		15.16	0.00	25.48		---	---	---	---	---	---	---	---	---	---	---
MW-7		12/04/91	40.64		15.41	0.00	25.23		---	---	---	---	---	---	---	---	---	---	---
MW-7		12/16/91	40.64		15.21	0.00	25.43		---	---	---	---	---	---	---	---	---	---	---
MW-7		01/06/92	40.64		14.56	0.00	26.08		1100	---	170	ND<0.5	24	23	---	---	---	---	ANA
MW-7		01/22/92	40.64		14.63	0.00	26.01		---	---	---	---	---	---	---	---	---	---	---
MW-7		01/28/92	40.64		14.73	0.00	25.91		---	---	---	---	---	---	---	---	---	---	---
MW-7		02/05/92	40.64		14.58	0.00	26.06		---	---	---	---	---	---	---	---	---	---	---
MW-7		02/12/92	40.64		13.94	0.00	26.70		---	---	---	---	---	---	---	---	---	---	---
MW-7		02/17/92	40.64		13.10	0.00	27.54		---	---	---	---	---	---	---	---	---	---	---
MW-7		04/03/92	40.64		12.66	0.00	27.98		---	---	---	---	---	---	---	---	---	---	---
MW-7		04/08/92	40.64		12.77	0.00	27.87		750	---	150	ND<0.5	23	9.9	---	---	---	---	ANA
MW-7		04/14/92	40.64		13.02	0.00	27.62		---	---	---	---	---	---	---	---	---	---	---
MW-7		04/29/92	40.64		13.59	0.00	27.05		---	---	---	---	---	---	---	---	---	---	---
MW-7		05/07/92	40.64		13.95	0.00	26.69		---	---	---	---	---	---	---	---	---	---	---
MW-7		07/03/92	40.64		14.73	0.00	25.91		660	---	210	ND<2.5	33	8	---	---	---	---	ANA
MW-7		10/08/92	40.64		15.75	0.00	24.89		320	---	49	1.4	13	6.2	---	---	---	---	ANA
MW-7		12/31/92	40.64		13.57	0.00	27.07		900	---	100	ND<2.5	28	4.3	---	---	---	---	ANA
MW-7		04/21/93	40.64		14.56	0.00	26.08		510	---	83	1.2	10	5.8	---	---	---	---	PACE
MW-7		07/07/93	40.32	(h)	13.40	0.00	26.92		1100	---	160	2.0	27	4.0	---	---	---	---	PACE
QC-1	(g)	07/07/93	40.32		---	---	---		1100	---	170	1.9	29	2.8	---	---	---	---	PACE
MW-7		09/21/93	40.32		14.40	0.00	25.92		690	---	150	3.1	26	5.7	---	---	---	---	PACE
QC-1	(g)	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	(g)	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

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	0.00	15.81	ND<50	—	ND<0.3	0.6	ND<0.3	0.9	—	—	—	—	SUP
MW-8		10/15/91	38.18	22.70	0.00	15.48	—	—	—	—	—	—	—	—	—	—	—
MW-8		12/04/91	38.18	22.44	0.00	15.74	—	—	—	—	—	—	—	—	—	—	—
MW-8		12/16/91	38.18	22.47	0.00	15.71	—	—	—	—	—	—	—	—	—	—	—
MW-8		01/06/92	38.18	21.94	0.00	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	0.00	16.74	—	—	—	—	—	—	—	—	—	—	—
MW-8		01/28/92	38.18	21.20	0.00	16.98	—	—	—	—	—	—	—	—	—	—	—
MW-8		02/05/92	38.18	20.88	0.00	17.30	—	—	—	—	—	—	—	—	—	—	—
MW-8		02/12/92	38.18	20.54	0.00	17.64	—	—	—	—	—	—	—	—	—	—	—
MW-8		02/17/92	38.18	19.99	0.00	18.19	—	—	—	—	—	—	—	—	—	—	—
MW-8		04/03/92	38.18	16.75	0.00	21.43	—	—	—	—	—	—	—	—	—	—	—
MW-8		04/08/92	38.18	16.57	0.00	21.61	ND<50	—	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	—	—	ANA
MW-8		04/14/92	38.18	INACCESSIBLE	—	—	—	—	—	—	—	—	—	—	—	—	—
MW-8		04/29/92	38.18	16.61	0.00	19.57	—	—	—	—	—	—	—	—	—	—	—
MW-8		05/07/92	38.18	18.41	0.00	19.77	—	—	—	—	—	—	—	—	—	—	—
MW-8		07/03/92	38.18	20.35	0.00	17.83	ND<50	—	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	—	—	ANA
MW-8	(i)	10/08/92	38.18	21.74	0.00	16.44	—	—	—	—	—	—	—	—	—	—	—
MW-8		12/31/92	38.18	19.09	0.00	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	0.00	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	0.00	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	0.00	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	—	—	—	6.6	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	(i)	10/03/95	38.18	—	—	—	—	—	—	—	—	—	—	—	—	—	—

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
BP OIL COMPANY SERVICE STATION NO. 11109
4260 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-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	10/08/92	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

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 (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
QC-2	(j)	10/08/92	—	—	—	—	ND<50	—	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	—	—	ANA
QC-2	(j)	12/31/92	—	—	—	—	ND<50	—	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	—	—	ANA
QC-2	(j)	04/21/93	—	—	—	—	—	—	—	—	—	—	—	—	ND	—	PACE
QC-2	(j)	07/07/93	—	—	—	—	ND<50	—	ND<0.5	ND<0.5	ND<0.5	0.6	—	—	—	—	PACE
QC-2	(j)	09/21/93	—	—	—	—	ND<50	—	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	—	—	PACE
QC-2	(j)	12/23/93	—	—	—	—	ND<50	—	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	—	—	PACE
QC-2	(j)	04/07/94	—	—	—	—	ND<50	—	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	—	—	PACE
QC-2	(j)	07/06/94	—	—	—	—	ND<50	—	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	—	—	PACE
QC-2	(j)	10/07/94	—	—	—	—	ND<50	—	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	—	—	PACE
QC-2	(j)	01/27/95	—	—	—	—	ND<50	—	ND<0.5	0.5	ND<0.5	ND<1	—	—	—	—	ATI
QC-2	(j)	03/30/95	—	—	—	—	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—	—	—	—	ATI
QC-2	(j)	06/20/95	—	—	—	—	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—	—	—	—	ATI
QC-2	(j)	10/03/95	—	—	—	—	ND<50	—	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	—	—	—	ATI

ABBREVIATIONS:

TPH-G	Total petroleum hydrocarbons as gasoline
TPH-D	Total petroleum hydrocarbons as diesel
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total xylenes
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.

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.

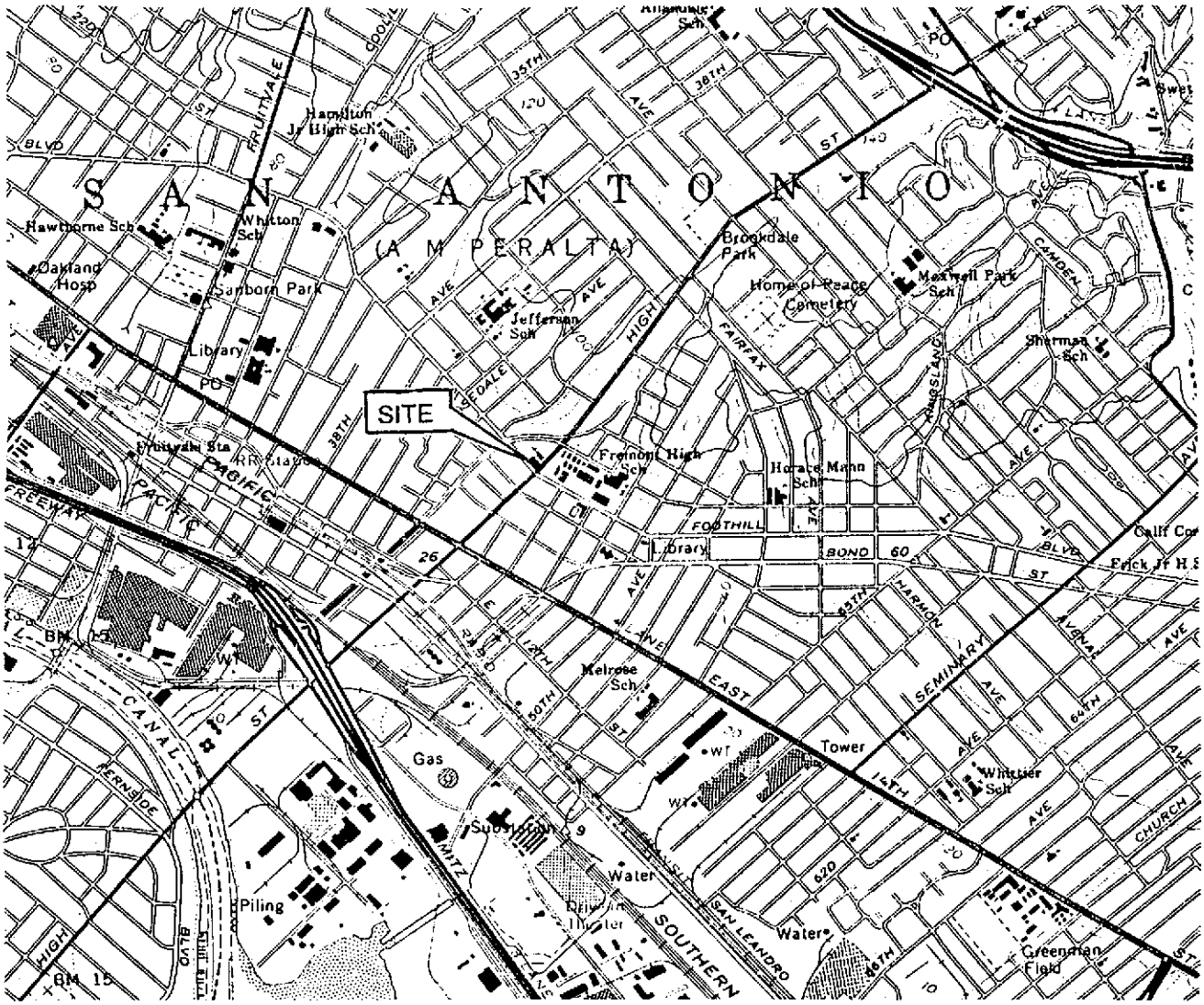
(f) Sample collected from MW-2 for TPH-D analysis received in laboratory 7 days after collection; sample exceeded EPA recommended holding time for TPH-D on a water matrix.

(g) Blind duplicate.

(h) Top of casing lowered.

(i) Not sampled due to abandoned vehicle parked over well.

(j) Travel blank.



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

N

0 1000' 2000'

FIGURE 1

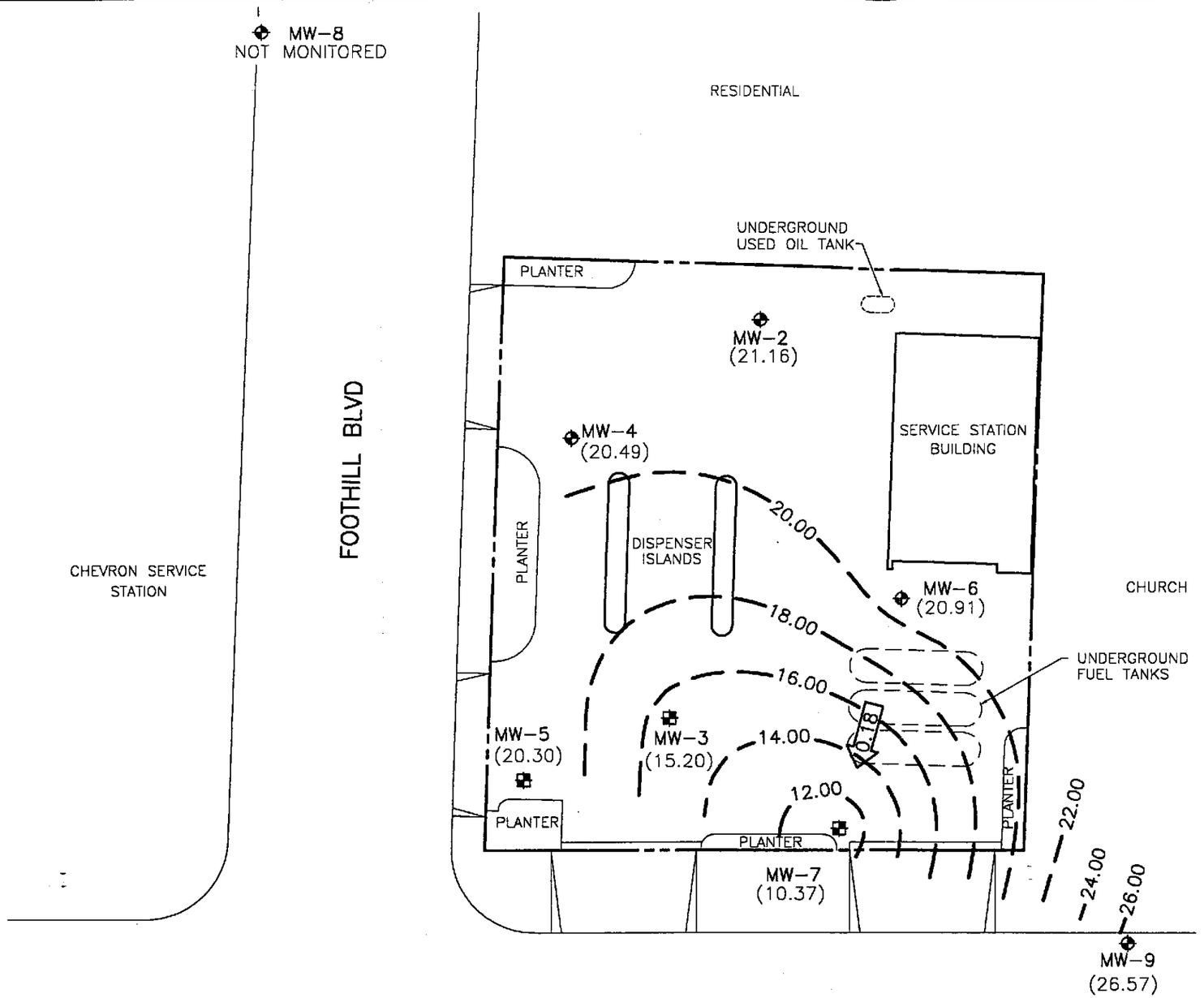
SITE VICINITY MAP

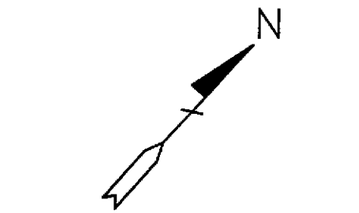
BP OIL SERVICE STATION NO. 11109
4280 FOOTHILL BOULEVARD
OAKLAND, CALIFORNIA

PROJECT NO. 10-014

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

10014B---.DWG 5-26-93 RKW 1=1





LEGEND

- GROUNDWATER MONITORING WELL
- GROUNDWATER RECOVERY WELL
- (26.57) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- 26.00 GROUNDWATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL (CONTOUR INTERVAL–2.00 FEET)
- 0.18 CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE IN FOOT PER FOOT

FIGURE 2

POTENTIOMETRIC GROUNDWATER ELEVATION CONTOUR MAP

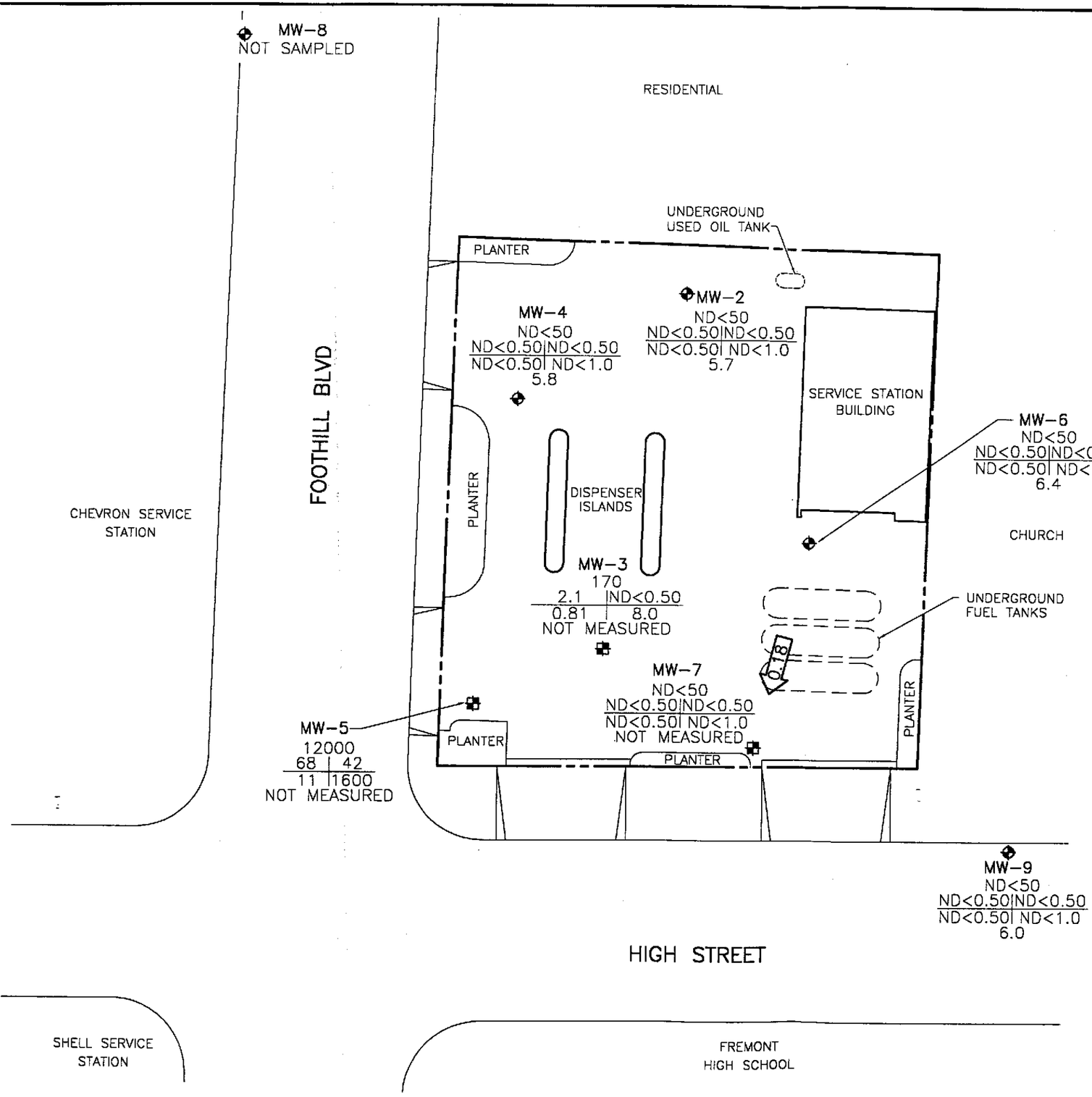
OCTOBER 3, 1995

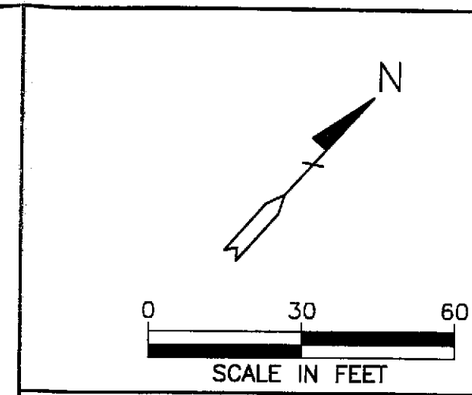
BP OIL SERVICE STATION NO. 11109
4280 FOOTHILL BOULEVARD
OAKLAND, CALIFORNIA

PROJECT NO. 10–014

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

10040-P.DWG 11-14-95 MAP 1=30





LEGEND

◆	GROUNDWATER MONITORING WELL
◆	GROUNDWATER RECOVERY WELL
TPH–G / B | T / E | X / DO	CONCENTRATION OF CONSTITUENTS IN MICROGRAMS PER LITER, EXCEPT DISSOLVED OXYGEN, WHICH IS IN PARTS PER MILLION
TPH–G	TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	TOTAL XYLENES
DO	DISSOLVED OXYGEN
ND	NOT DETECTED ABOVE REPORTED DETECTION LIMIT
0.18	CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE IN FOOT PER FOOT

FIGURE 3

CONCENTRATIONS OF PETROLEUM HYDROCARBONS IN GROUNDWATER

OCTOBER 3, 1995

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

PROJECT NO. 10–014

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

10014E-P.DWG 11-30-95 MAP 1=30

APPENDIX A

WATER SAMPLING FIELD SURVEY FORMS

ALISTO

Field Report / Sampling Data Sheet

ENGINEERING
GROUP
1575 TREAT BOULEVARD, SUITE 201

Project No. 10-014-05-002 Date: 10/3/95
Address 4280 Foothill Blvd Day: M (T) W TH F
Contract No. G602076 City: Oakland
Station No. BP 11109 Sampler: DC

DEPTH TO GROUNDWATER SUMMARY

WELL ID	SAMPLE ID	WELL DIAM	TOTAL DEPTH	DEPTH TO WATER	PRODUCT THICKNESS	TIME SAMPLED	COMMENTS:
MW-2	S-3	2"	30.10	20.06	Ø	1024	
MW-3	S-5	4"	31.80	24.93		1035	
MW-4	S-4	4"	34.28	19.62		1030	
MW-5	S-7	4"	NM	18.84		1046	
MW-6	S-2	4"	34.28	20.68		1020	
MW-7	S-6	4"	33.48	29.95	↓	1042	
MW-8	not	—	—	—	—	—	Truck parked on well cannot locate owner (pg 3)
MW-9	S-1	2"	29.31	14.68	Ø	1015	

FIELD INSTRUMENT CALIBRATION DATA

Ph METER Hydac 4.00 ✓ 7.00 ✓ 10.00 ___ TEMPERATURE COMPENSATED (Y) N TIME 1045

D.O. METER Ion ZERO d.O. SOLUTION ✓ BAROMETRIC PRESSURE ___ TEMP 87°F WEATHER Sunny

CONDUCTIVITY METER Hydac 10,000 ✓ TURBIDITY METER ___ 5.0 NTU ___ OTHER ___

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Iridescence	Gal.	Time	Temp °F	pH	E.C.	D.O.
MW-9	14.68	2"	OK	Ø	Y (N)	2.5	1059	76.2	7.02	0.49	4.7
Total Depth - Water Level=	x Well Vol. Factor=	x#vol. to Purge	PurgeVol.			5	1104	72.4	6.89	0.46	
29.31 - 14.68 = 14.63	x .16 = 2.34	x3 = 7.02				7.25	1108	72.3	6.96	0.47	6.0
Purge Method: OSurface Pump ODisp.Tube OWinch ODisp. Bailer(s) 1 OSys Port											
Comments:											

O EPA 601 ___
Ø TPH-G/BTEX Acc
O TPH Diesel ___
O TOG 5520 ___
TIME/SAMPLE ID
1115 / S-1

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Iridescence	Gal.	Time	Temp °F	pH	E.C.	D.O.
MW-6	20.68	4"	OK	Ø	Y (N)	9	1127	71.9	6.95	0.89	6.4
Total Depth - Water Level=	x Well Vol. Factor=	x#vol. to Purge	PurgeVol.			18	1134	70.1	6.55	0.83	
34.28 - 20.68 = 13.6	x .65 = 8.84	x3 = 26.52				26.75	dry	—	—	—	
Purge Method: OSurface Pump ODisp.Tube OWinch ODisp. Bailer(s) 3 OSys Port											
Comments: dry @ = 20 gallons											

O EPA 601 ___
Ø TPH-G/BTEX Acc
O TPH Diesel ___
O TOG 5520 ___
TIME/SAMPLE ID
1140 / S-2

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. 10-014-05-002 | Date: 10/3/95
Address 4280 Foothill Blvd | Day: M T W TH F (T circled)
Contract No. G602076 | City: Oakland
Station No. BP 11109 | Sampler: DC

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Iridescence	Gal.	Time	Temp °F	pH	E.C.	D.O.
mw-2	20.06	2"	OK	ф	Y (N)	2	1147	72.3	7.26	0.68	5.7
						4	1153	70.2	7.14	0.66	
						5	1200	69.8	7.11	0.66	5.7

Total Depth - Water Level= x Well Vol. Factor= x#vol. to Purge PurgeVol.
30.10 - 20.06 = 10.04 x .16 = 1.61 x 3 = 4.82
Purge Method: OSurface Pump ODisp.Tube OWinch ⊗Disp. Bailer(s) 1 OSys Port
Comments:

O EPA 601 ; ⊗ TPH-G/BTEX HCl ; O TPH Diesel ; O TOG 5520
TIME/SAMPLE ID: 1205 / S-3

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Iridescence	Gal.	Time	Temp °F	pH	E.C.	D.O.
mw-4	19.62	4"	OK	ф	Y (N)	10	1223	71.3	7.31	0.55	5.8
						dry	—	—	—	—	

Total Depth - Water Level= x Well Vol. Factor= x#vol. to Purge PurgeVol.
34.28 - 19.62 = 14.66 x .65 = 9.53 x 3 = 28.59
Purge Method: OSurface Pump ODisp.Tube OWinch ⊗Disp. Bailer(s) 3 OSys Port
Comments: dry @ ≅ 17 gallons

O EPA 601 ; ⊗ TPH-G/BTEX HCl ; O TPH Diesel ; O TOG 5520
TIME/SAMPLE ID: 1235 / S-4

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Iridescence	Gal.	Time	Temp °F	pH	E.C.	D.O.
mw-3	24.53	4"	OK	ф	Y (N)						

Total Depth - Water Level= x Well Vol. Factor= x#vol. to Purge PurgeVol.
31.80 - 24.53 =
Purge Method: OSurface Pump ODisp.Tube OWinch ODisp. Bailer(s)___ ⊗Sys Port
Comments:

O EPA 601 ; ⊗ TPH-G/BTEX HCl ; O TPH Diesel ; O TOG 5520
TIME/SAMPLE ID: 1242 / S-5

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Iridescence	Gal.	Time	Temp °F	pH	E.C.	D.O.
mw-7	29.95	6"	OK	ф	Y (N)						

Total Depth - Water Level= x Well Vol. Factor= x#vol. to Purge PurgeVol.
33.48 - 29.95 =
Purge Method: OSurface Pump ODisp.Tube OWinch ODisp. Bailer(s)___ ⊗Sys Port
Comments:

O EPA 601 ; ⊗ TPH-G/BTEX HCl ; O TPH Diesel ; O TOG 5520
TIME/SAMPLE ID: 1250 / S-6

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Iridescence	Gal.	Time	Temp °F	pH	E.C.	D.O.
mw-5	18.84	4"	OK	ф	Y (N)						

Total Depth - Water Level= x Well Vol. Factor= x#vol. to Purge PurgeVol.
NM - 18.84 =
Purge Method: OSurface Pump ODisp.Tube OWinch ODisp. Bailer(s)___ ⊗Sys Port
Comments: QC-1 from this well (S-8)

O EPA 601 ; ⊗ TPH-G/BTEX HCl ; O TPH Diesel ; O TOG 5520
TIME/SAMPLE ID: 1300 / S-7

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. 10-014-05-002 Date: 10/3/95
Address 4280 Foothill Blvd Day: M(T)W TH F
Contract No. G602076 City: Oakland
Station No. BP 11109 Sampler: DC

Well ID	Depth to Wate	Diam	Cap/Lock	Product Dept	Iridescence	Gal.	Time	Temp *F	pH	E.C.	D.O.
					Y N						
Total Depth - Water Level=	x Well Vol. Factor=	x#vol. to Purge	PurgeVol.								
Purge Method: OSurface Pump ODisp.Tube OWinch ODisp. Bailer(s)___ OSys Port											
Comments:											

O EPA 601_____
O TPH-G/BTEX___
O TPH Diesel_____
O TOG 5520 ___

TIME/SAMPLE ID

* Truck is parked on MW-8, tried to locate owner by going to house directly in front of it, house owner has no idea who owns the truck. Will check in periodically to see if truck moves.

** System is operating.

APPENDIX B

LABORATORY REPORT AND CHAIN OF CUSTODY RECORD

Analytical**Technologies,** Inc. Corporate Offices 5550 Morehouse Drive San Diego, CA 92121 (619) 458-9141

ATI I.D.: 510032

October 16, 1995

ALISTO ENGINEERING
1575 TREAT BOULEVARD, SUITE 201
WALNUT CREEK, CA 94598

Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND CA
Project # : G602076/10-014-05-002

Attention: BILL HOWELL

Analytical Technologies, Inc. has received the following sample(s):

Date Received	Quantity	Matrix
October 05, 1995	9	WATER

The sample(s) were analyzed with EPA methodology or equivalent methods as specified in the enclosed analytical schedule. The symbol for "less than" indicates a value below the reportable detection limit. If any flags appear next to the analytical data in this report, please see the attached list of flag definitions.

The results of these analyses and the quality control data are enclosed. Please note that the Sample Condition Upon Receipt Checklist is included at the end of this report.

GARY STEWART
VOLATILES SUPERVISOR

for ALAN J. KLEINSCHMIDT
LABORATORY MANAGER

SAMPLE CROSS REFERENCE

Client : ALISTO ENGINEERING
Project # : G602076/10-014-05-002
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND CA

Report Date: October 16, 1995
ATI I.D. : 510032

ATI #	Client Description	Matrix	Date Collected
1	S-1	WATER	03-OCT-95
2	S-2	WATER	03-OCT-95
3	S-3	WATER	03-OCT-95
4	S-4	WATER	03-OCT-95
5	S-5	WATER	03-OCT-95
6	S-6	WATER	03-OCT-95
7	S-7	WATER	03-OCT-95
8	S-8	WATER	03-OCT-95
9	S-9	WATER	03-OCT-95

---TOTALS---

Matrix	# Samples
WATER	9

ATI STANDARD DISPOSAL PRACTICE

The sample(s) from this project will be disposed of in twenty-one (21) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

ANALYTICAL SCHEDULE

Client : ALISTO ENGINEERING
Project # : G602076/10-014-05-002
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND CA

ATI I.D.: 510032

Analysis	Technique/Description
MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)	GC/FLAME ION./PHOTO IONIZATION DETECTOR

GAS CHROMATOGRAPHY RESULTS

Test : MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)
Client : ALISTO ENGINEERING ATI I.D. : 510032
Project # : G602076/10-014-05-002
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
1	S-1	WATER	03-OCT-95	N/A	10-OCT-95	1.00
2	S-2	WATER	03-OCT-95	N/A	10-OCT-95	1.00
3	S-3	WATER	03-OCT-95	N/A	10-OCT-95	1.00

Parameter	Units	1	2	3
METHYL T-BUTYL ETHER	UG/L	<5.0	66	12
BENZENE	UG/L	<0.50	<0.50	<0.50
TOLUENE	UG/L	<0.50	<0.50	<0.50
ETHYLBENZENE	UG/L	<0.50	<0.50	<0.50
XYLENES (TOTAL)	UG/L	<1.0	<1.0	<1.0
FUEL HYDROCARBONS	UG/L	<50	<50	<50
HYDROCARBON RANGE		C6-C12	C6-C12	C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE	GASOLINE	GASOLINE
SURROGATES				
TRIFLUOROTOLUENE	%	90	96	94

GAS CHROMATOGRAPHY RESULTS

Test : MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)
Client : ALISTO ENGINEERING ATI I.D. : 510032
Project # : G602076/10-014-05-002
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
4	S-4	WATER	03-OCT-95	N/A	11-OCT-95	1.00
5	S-5	WATER	03-OCT-95	N/A	11-OCT-95	1.00
6	S-6	WATER	03-OCT-95	N/A	11-OCT-95	1.00

Parameter	Units	4	5	6
METHYL T-BUTYL ETHER	UG/L	5.0	6.7	<5.0
BENZENE	UG/L	<0.50	2.1@E	<0.50
TOLUENE	UG/L	<0.50	<0.50	<0.50
ETHYLBENZENE	UG/L	<0.50	0.81	<0.50
XYLENES (TOTAL)	UG/L	<1.0	8.0	<1.0
FUEL HYDROCARBONS	UG/L	<50	170	<50
HYDROCARBON RANGE		C6-C12	C6-C12	C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE	GASOLINE	GASOLINE
SURROGATES				
TRIFLUOROTOLUENE	%	98	117	96

GAS CHROMATOGRAPHY RESULTS

Test : MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)
Client : ALISTO ENGINEERING ATI I.D. : 510032
Project # : G602076/10-014-05-002
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
7	S-7	WATER	03-OCT-95	N/A	11-OCT-95	20.00
8	S-8	WATER	03-OCT-95	N/A	11-OCT-95	20.00
9	S-9	WATER	03-OCT-95	N/A	11-OCT-95	1.00

Parameter	Units	7	8	9
METHYL T-BUTYL ETHER	UG/L	330@E	320@E	<5.0
BENZENE	UG/L	68@E	46@E	<0.50
TOLUENE	UG/L	42	39	<0.50
ETHYLBENZENE	UG/L	11@E	10@E	<0.50
XYLENES (TOTAL)	UG/L	1600	1600	<1.0
FUEL HYDROCARBONS	UG/L	12000	12000	<50
HYDROCARBON RANGE		C6-C12	C6-C12	C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE	GASOLINE	GASOLINE
SURROGATES				
TRIFLUOROTOLUENE	%	131*H	134*H	93

GAS CHROMATOGRAPHY - QUALITY CONTROL

REAGENT BLANK

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
Blank I.D. : 37029
Client : ALISTO ENGINEERING
Project # : G602076/10-014-05-002
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND CA

ATI I.D. : 510032
Date Extracted: N/A
Date Analyzed : 10-OCT-95
Dil. Factor : 1.00

Parameters	Units	Results
METHYL T-BUTYL ETHER	UG/L	<5.0
BENZENE	UG/L	<0.50
TOLUENE	UG/L	<0.50
ETHYLBENZENE	UG/L	<0.50
XYLENES (TOTAL)	UG/L	<1.0
FUEL HYDROCARBONS	UG/L	<50
HYDROCARBON RANGE		C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE
SURROGATES		
TRIFLUOROTOLUENE	%	93

GAS CHROMATOGRAPHY - QUALITY CONTROL

REAGENT BLANK

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
Blank I.D. : 37031
Client : ALISTO ENGINEERING
Project # : G602076/10-014-05-002
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND CA

ATI I.D. : 510032
Date Extracted: N/A
Date Analyzed : 11-OCT-95
Dil. Factor : 1.00

Parameters	Units	Results
METHYL T-BUTYL ETHER	UG/L	<5.0
BENZENE	UG/L	<0.50
TOLUENE	UG/L	<0.50
ETHYLBENZENE	UG/L	<0.50
XYLENES (TOTAL)	UG/L	<1.0
FUEL HYDROCARBONS	UG/L	<50
HYDROCARBON RANGE		C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE
SURROGATES		
TRIFLUOROTOLUENE	%	101

GAS CHROMATOGRAPHY - QUALITY CONTROL

MSMSD

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
MSMSD # : 79157
Client : ALISTO ENGINEERING

Project # : G602076/10-014-05-002
Project Name: BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND CA

ATI I.D. : 510032
Date Extracted: N/A
Date Analyzed : 12-OCT-95
Sample Matrix : WATER
REF I.D. : 510035-01

Parameters	Units	Sample Result	Conc Spike	Spiked Sample	% Rec	Dup Spike	Dup % Rec	RPD
BENZENE	UG/L	<0.50	5.0	4.5	90	4.6	92	2
TOLUENE	UG/L	<0.50	5.0	4.6	92	4.7	94	2

% Recovery = (Spike Sample Result - Sample Result)*100/Spike Concentration
RPD (Relative % Difference) = (Spiked Sample Result - Duplicate Spike Result)*100/Average Result

GAS CHROMATOGRAPHY - QUALITY CONTROL

BLANK SPIKE

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
Blank Spike #: 59315
Client : ALISTO ENGINEERING
Project # : G602076/10-014-05-002
Project Name : BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND CA

ATI I.D. : 510032
Date Extracted: N/A
Date Analyzed : 10-OCT-95
Sample Matrix : WATER

Parameters	Units	Blank Result	Spiked Sample	Spike Conc.	% Rec
BENZENE	UG/L	<0.50	5.4	5.0	108
TOLUENE	UG/L	<0.50	5.5	5.0	110

% Recovery = (Spike Sample Result - Sample Result)*100/Spike Concentration
RPD (Relative % Difference) = (Spiked Sample - Blank Result)*100/Average Result

GAS CHROMATOGRAPHY - QUALITY CONTROL

BLANK SPIKE

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
Blank Spike #: 59395
Client : ALISTO ENGINEERING
Project # : G602076/10-014-05-002
Project Name : BP SITE#11109/4280 FOOTHILL BLVD. OAKLAND CA

ATI I.D. : 510032
Date Extracted: N/A
Date Analyzed : 11-OCT-95
Sample Matrix : WATER

Parameters	Units	Blank Result	Spiked Sample	Spike Conc.	% Rec
BENZENE	UG/L	<0.50	4.7	5.0	94
TOLUENE	UG/L	<0.50	4.7	5.0	94

% Recovery = (Spike Sample Result - Sample Result)*100/Spike Concentration
RPD (Relative % Difference) = (Spiked Sample - Blank Result)*100/Average Result

ANALYTICAL TECHNOLOGIES, INC.
SAN DIEGO
FLAGS

ORGANICS

FLAG	MESSAGE DESCRIPTION
A	A TIC IS A SUSPECTED ALDOL-CONDENSATION PRODUCT
B	ANALYTE FOUND IN THE ASSOCIATED REAGENT BLANK
C	PESTICIDE, WHERE THE IDENTIFICATION WAS CONFIRMED BY GC/MS
CO	THESE COMPOUNDS CO-ELUTE AND ARE QUANTITATED AS ONE PEAK
D	COMPOUND IDENTIFIED IN AN ANALYSIS AT SECONDARY DILUTION
E	ANALYTE AMOUNT EXCEEDS THE CALIBRATION RANGE
J	ESTIMATED VALUE
H	QUANTIFIED AS DIESEL BUT CHROMATOGRAPHIC PATTERN DOES NOT MATCH THAT OF DIESEL
K	QUANTIFIED AS KEROSENE BUT CHROMATOGRAPHIC PATTERN DOES NOT MATCH THAT OF KEROSENE
L	QUANTIFIED AS GASOLINE BUT CHROMATOGRAPHIC PATTERN DOES NOT MATCH THAT OF GASOLINE
N	PRESUMPTIVE EVIDENCE OF A COMPOUND
P	PESTICIDE/AROCLOR TARGET ANALYTE, WHERE THERE IS GREATER THAN 25% DIFFERENCE FOR DETECTED CONCENTRATION BETWEEN 2 GC COLUMNS
TR	COMPOUND DETECTED AT AN UNQUANTIFIABLE TRACE LEVEL
U	COMPOUND WAS ANALYZED FOR BUT NOT DETECTED
X	SEE CASE NARRATIVE
Y	SEE CASE NARRATIVE
Z	SEE CASE NARRATIVE
*	OUTSIDE OF QUALITY CONTROL LIMITS
*D	COMPOUND ANALYZED FROM A SECONDARY ANALYSIS
*F	RESULT OUTSIDE OF ATI'S QUALITY CONTROL LIMITS
*G	RESULT OUTSIDE QUALITY CONTROL LIMITS. INSUFFICIENT SAMPLE FOR RE-EXTRACTION/ANALYSIS
*H	RESULT OUTSIDE OF LIMITS DUE TO SAMPLE MATRIX INTERFERENCE
*I	BECAUSE OF NECESSARY SAMPLE DILUTION, VALUE WAS OUTSIDE QC LIMITS
*K	DUE TO THE NECESSARY DILUTION OF THE SAMPLE, RESULT WAS NOT ATTAINABLE
*L	ANALYTE IS A SUSPECTED LAB CONTAMINANT
*P	A STANDARD WAS USED TO QUANTITATE THIS VALUE
*R	DATA IS NOT USABLE
*T	SURROGATE RECOVERY IS OUTSIDE QC CONTROL LIMITS. NO CORRECTIVE ACTION INDICATED BY METHOD
*V	SAMPLE RESULT IS >4X SPIKED CONCENTRATION, THEREFORE SPIKE IS NOT DETECTABLE
*Y	RESULT NOT ATTAINABLE DUE TO SAMPLE MATRIX INTERFERENCE
@A	RESULTS OUT OF LIMITS DUE TO SAMPLE NON-HOMOGENEITY
@C	*VARIABLE MESSAGE*
@D	RESULT COULD NOT BE CONFIRMED DUE TO MATRIX INTERFERENCE ON THE CONFIRMATION COLUMN
@E	RESULT MAY BE FALSELY ELEVATED DUE TO SAMPLE MATRIX INTERFERENCE
@F	RESULT OUTSIDE OF CONTRACT SPECIFIED QUALITY CONTROL LIMITS
@G	RESULT OUTSIDE OF CONTRACT SPECIFIED ADVISORY LIMITS
@H	DETECTION LIMIT ELEVATED DUE TO MATRIX INTERFERENCE
@M	RESULT NOT CONFIRMED BY U.V. DUE TO SAMPLE MATRIX INTERFERENCE
@N	RESULT NOT CONFIRMED BY FLUORESCENCE DUE TO SAMPLE MATRIX INTERFERENCE
@P	RESULT QUANTITATED USING FLUORESCENCE ONLY DUE TO THE LOW CONCENTRATION
@Q	DETECTION LIMIT ELEVATED DUE TO LIMITED SAMPLE FOR ANALYSIS
@T	RESULT DUE TO TCLP EXTRACTION MATRIX INTERFERENCE. NO QC LIMITS HAVE BEEN ESTABLISHED
@U	SAMPLE CHROMATOGRAM DOES NOT RESEMBLE COMMON FUEL HYDROCARBON FINGERPRINTS
@Z	SAMPLE CHROMATOGRAM DOES NOT RESEMBLE A FUEL HYDROCARBON

ACCESSION #: 510032

INITIALS: JJ

ATI-SanDiego
SAMPLE CONDITION UPON RECEIPT CHECKLIST
(FOR RE-ACCESSIONS, COMPLETE #7 THRU #9)

1	Does this project require special handling according to NFESC Levels C, D, AFCEE or CLP protocols? If yes, complete a) and b) a) pH sample aliquoted: yes /no /na b) Either 1) Record Bottle Lot #'s: Or 2) Attach Sample Kit Request Form(s)	YES	(NO)
2	Number of Coolers Received If more than one cooler received attach Multiple Cooler Documentation Form (MCD) Indicate "see MCD"on Item 11 below	1 (#1149)	
3	Are custody seals required for this project ?	YES	(N/A)
	a) are Custody Seals present on Cooler(s) ?	YES	(NO)
	If yes, are seals intact ?	YES	NO
	b) are Custody Seals present on the sample ?	YES	(NO)
	If yes, are seals intact ?	YES	NO
4	Is there a Chain-Of-Custody (COC)* per cooler ? if not, if a problem is found indicate which samples/test were in the affected cooler on the MCD.	(YES)	NO
5	Is the COC* complete per cooler ? Relinquished: (yes)/no Requested analysis: (yes)/no	(YES)	NO
6	Is the COC* in agreement with the samples received? # Samples: (yes)/no Sample ID's: (yes)/no Date sampled: (yes)/no Matrix: (yes)/no # containers: (yes)/no	(YES)	NO
7	Are the samples preserved correctly?	(YES)	NO
8	Is there enough sample for all the requested analyses?	(YES)	NO
9	Are all samples within holding times for the requested analyses?	(YES)	NO
10	Record cooler temperature. Contact PM if temperature is not 4°C ± 2°C.	2.0 °C	
	Is ice present in cooler?	(YES)	NO
11	Were all sample containers received intact (ie. not broken, leaking, etc.)?	(YES)	NO
12	Are samples requiring no headspace, headspace free? N/A	(YES)	NO
13	Are VOA 1st stickers required?	YES	(NO)
14	Are there special comments on the Chain of Custody which require client contact?	YES	(N/A)
15	If yes, was ATI Project Manager notified?	YES	NO

Describe "no" items: _____

Was client contacted? yes / no

If yes, Date: _____ Name of Person contacted:

Describe actions taken or client instructions: _____

*Or other representative documents, letters, and/or shipping memos

BP

ATI # S10032

CHAIN OF CUSTODY

No. 055920

Page 1 of 1

CONSULTANT'S NAME	ADDRESS	CITY	STATE	ZIP CODE
Alisto Engineering	1575 Treat Blvd	Walnut Creek	CA	94598

BP SITE NUMBER	BP CORNER ADDRESS/CITY	CONSULTANT PROJECT NUMBER
11109	4280 Foothill Blvd Oakland CA	10-014-05-002

CONSULTANT PROJECT MANAGER	PHONE NUMBER	FAX NUMBER	CONSULTANT CONTRACT NUMBER
Bill Howell	(510) 295 1650	(510) 295 1823	6602076

BP CONTACT	BP ADDRESS	PHONE NUMBER	FAX NO.
Scott Horton	Renton WA	(206) 251-8208	

LAB CONTACT	LABORATORY ADDRESS	PHONE NUMBER	FAX NO.
ATI, Inc	San Diego CA	(619) 458-9141	(619) 458-9141

SAMPLED BY (Please Print Name)	SAMPLED BY (Signature)	SHIPMENT DATE	SHIPMENT METHOD
Dave Cesnell	[signature]	10-4-95	Fed-ex

TAT: ☐ 24 Hours ☐ 48 Hours ☐ 1 Week ☒ Standard 2 Weeks

ANALYSIS REQUIRED

AIRBILL NUMBER: 6680273091

SAMPLE DESCRIPTION	COLLECTION DATE / COLLECTION TIME	MATRIX SOIL/WATER	CONTAINERS NO.	CONTAINERS TYPE (VOL.)	PRESERVATIVE / LAB SAMPLE #	TPH Gas BTEX MTBE										COMMENTS
S-1 1115	10/3/95	H2O	2	VOA	01	X										
S-2 1140	↓	↓	↓	↓	02	↓										
S-3 1205	↓	↓	↓	↓	03	↓										
S-4 1235	↓	↓	↓	↓	04	↓										
S-5 1242	↓	↓	↓	↓	05	↓										
S-6 1250	↓	↓	↓	↓	06	↓										
S-7 1300	↓	↓	↓	↓	07	↓										
S-8 —	↓	↓	↓	↓	08	↓										
S-9 —	↓	↓	↓	↓	09	↓										

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature] Alisto	10/3/95	11:00	Patricia Gyllon	10/3/95	1605
Patricia Gyllon	10/4/95	1530	[signature] / ATI	10-5-95	0920

ADDITIONAL COMMENTS

cooler # 1442 = 2°C

CIV-16722

Distribution: White - Original (with Data) Yellow - BP Pink - Lab Blue - Consultant Field Staff