BP OIL

BP Oil Company
Environmental Resources Management
Building 13, Suite N
295 SW 41st Street
Renton, Washington 98055-4931
(206) 251-0667
Fax No: (206) 251-0736

February 27, 1996

Ms. Eva Chu
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Room 250
Alameda, CA 94542-6577

RE: BP OIL FACILITY #11133
2220 98th Avenue
Oakland CA

Dear Ms Chu:

Attached please find our **GROUNDWATER MONITORING AND SAMPLING REPORT, Dated February 7, 1996,** for the above referenced facility. As you know, we are continuing to operate the vapor extraction system on an interim basis to accommodate the noise concerns raised by our neighbors.

If you should have any questions regarding this site, I may be reached at (206) 251-0689.

Respectfully,

Scott T. Hooton
Environmental Resources Management
Corrective Action Manager

STH:aa msword\ERM11133

cc: Mr. Brady Nagle, Alisto Engineering Group, 1575 Treat Blvd., Ste 201, Walnut Creek, CA 94598

Mr. Larry Silva, TOSCO, 601 Union Street, Suite 2500, Seattle, WA 98101

Mr. Richard Hiett, CRWQCB,San Francisco Bay Region, 2101 Webster Street, Suite 500, Oakland CA 94612

Site File

2/27/96

GROUNDWATER MONITORING AND SAMPLING REPORT

BP Oil Company Service Station No. 11133
2220 98th Avenue
Oakland, California

Project No. 10-025-09-002

Prepared for:

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

3/1/96 ① Need add'l MWs to delineate extent of plume.

Prepared by:

Alisto Engineering Group
1575 Treat Boulevard, Suite 201 ② Need risk assessment GW vapor to indoor air - residential.
Walnut Creek, California

February 7, 1996

Ken Simas
Project Manager

Al Sevilla, P.E.
Principal

REGISTERED PROFESSIONAL ENGINEER
ALBERTO SANCHEZ SEVILLA
26392
Exp. Date 3/31/96
CIVIL
STATE OF CALIFORNIA

GROUNDWATER MONITORING AND SAMPLING REPORT

BP Oil Company Service Station No. 11133
2220 98th Avenue
Oakland, California

Project No. 10-025-09-002

February 7, 1996

INTRODUCTION

This report presents the results and findings of the December 7, 1995 groundwater monitoring and sampling conducted by Alisto Engineering Group at BP Oil Company Service Station No. 11133, 2220 98th Avenue, 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.

FREE PRODUCT MONITORING AND RECOVERY

A product recovery canister has been installed in Monitoring Well MW-1 to recover liquid-phase product. Product thicknesses for this and previous monitoring events are presented in Table 1. The volume of product recovered is presented in Table 2.

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. 11133
2220 98TH AVENUE, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-025

WELL ID	DATE OF MONITORING/ SAMPLING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-1	04/05/91	34.46	—	—	—	—	—	—	—	—	—	—	—
MW-1	04/01/92	34.46	11.25	0.01	23.22	—	—	—	—	—	—	—	—
MW-1	07/06/92	34.46	13.61	0.02	20.87	—	—	—	—	—	—	—	—
MW-1	10/07/92	34.46	15.15	0.09	19.38	—	—	—	—	—	—	—	—
MW-1	01/14/93	34.46	10.73	0.01	23.74	—	—	—	—	—	—	—	—
MW-1	04/22/93	34.46	11.84	0.16	22.94	—	—	—	—	—	—	—	—
MW-1	07/15/93	34.46	13.50	1.11	21.79	—	—	—	—	—	—	—	—
MW-1	10/21/93	34.46	15.21	1.00	20.00	—	—	—	—	—	—	—	—
MW-1	01/27/94	34.46	17.48	0.81	17.59	—	—	—	—	—	—	—	—
MW-1	04/21/94	34.46	10.94	—	23.52	110000	1400	9100	3400	30000	—	1.6	PACE
MW-1	09/09/94	34.46	13.80	—	20.66	—	—	—	—	—	—	—	—
MW-1	12/21/94	34.46	12.80	0.02	21.88	—	—	—	—	—	—	—	—
MW-1	01/30/95	34.46	—	—	—	—	—	—	—	—	—	—	—
MW-1	04/10/95	34.46	10.62	—	23.84	—	—	—	—	—	—	—	—
MW-1	06/29/95	34.46	18.72	—	15.74	—	—	—	—	—	—	—	—
MW-1	09/18/95	34.46	12.92	—	21.54	—	—	—	—	—	—	—	—
MW-1	12/07/95	34.46	13.82	—	20.64	—	—	—	—	—	—	—	—
MW-2	04/05/91	35.50	16.62	—	18.88	ND<50	0.6	0.9	ND<0.3	ND<0.3	—	—	SUP
MW-2	04/01/92	35.50	11.25	—	24.25	—	—	—	—	—	—	—	—
MW-2	04/02/92	35.50	—	—	—	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	APP
MW-2	07/06/92	35.50	12.72	—	22.78	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	ANA
MW-2	10/07/92	35.50	15.08	—	20.42	ND<50	ND<0.5	1.8	ND<0.5	2.3	—	—	ANA
MW-2	01/14/93	35.50	9.69	—	25.81	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-2	04/22/93	35.50	10.46	—	25.04	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-2	07/15/93	35.50	12.02	—	23.48	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-2	10/21/93	35.50	13.12	—	22.38	ND<50	0.7	0.9	ND<0.5	0.9	—	—	PACE
MW-2	01/27/94	35.50	12.01	—	23.49	ND<50	0.6	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-2	04/21/94	35.50	10.60	—	24.90	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	1.1	PACE
MW-2	09/09/94	35.50	12.42	—	23.08	ND<50	ND<0.5	ND<0.5	ND<0.5	0.6	—	2.2	PACE
MW-2	12/21/94	35.50	10.85	—	24.65	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	1.2	PACE
MW-2	01/30/95	35.50	8.38	—	27.12	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—	1.7	ATI
MW-2	04/10/95	35.50	9.00	—	26.50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—	7.8	ATI
MW-2	06/29/95	35.50	9.91	—	25.59	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—	9.1	ATI
MW-2	09/18/95	35.50	10.98	—	24.52	—	—	—	—	—	—	—	—
MW-2	09/19/95	35.50	—	—	—	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	7.2	ATI
MW-2	12/07/95	35.50	12.30	—	23.20	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	2.4	ATI
MW-3	04/05/91	36.53	17.84	—	18.69	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	—	—	SUP
MW-3	04/01/92	36.53	15.64	—	20.89	—	—	—	—	—	—	—	—
MW-3	04/02/92	36.53	—	—	—	ND<50	1.4	ND<0.5	ND<0.5	ND<0.5	—	—	APP
MW-3	07/06/92	36.53	19.03	—	17.50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	ANA
MW-3	10/07/92	36.53	21.83	—	14.70	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	ANA
MW-3	01/14/93	36.53	15.96	—	20.57	350	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-3	04/22/93	36.53	16.20	—	20.33	2800	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-3	07/15/93	36.53	16.82	—	19.71	1400	1.2	ND<0.5	2.0	3.5	—	—	PACE
MW-3	10/21/93	36.53	18.84	—	17.69	370	2.1	2.3	2.3	6.0	—	—	PACE
MW-3	01/27/94	36.53	18.00	—	18.53	1300	6.3	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-3	04/21/94	36.53	16.62	—	19.91	2000	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	1.4	PACE
MW-3	09/09/94	36.53	18.38	—	18.15	1300	ND<0.5	ND<0.5	0.5	1.2	—	3.0	PACE
MW-3	12/21/94	36.53	15.28	—	21.25	420	16	0.7	3.5	5.9	—	1.9	PACE
MW-3	01/30/95	36.53	12.62	—	23.91	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—	2.5	ATI
MW-3	04/10/95	36.53	12.41	—	24.12	150	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—	6.9	ATI
MW-3	06/29/95	36.53	14.95	—	21.58	100	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—	6.4	ATI
MW-3	09/18/95	36.53	15.82	—	20.71	—	—	—	—	—	—	—	—
MW-3	09/19/95	36.53	—	—	—	82	ND<0.50	ND<0.50	ND<0.50	ND<1.0	260	7.0	ATI
MW-3	12/07/95	36.53	17.09	—	19.44	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	91	4.5	ATI

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
BP OIL COMPANY SERVICE STATION NO. 11133
2220 98TH AVENUE, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-025

WELL ID	DATE OF MONITORING/ SAMPLING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
AW-1	04/05/91	38.11	25.44	—	12.67	4100	1500	69	100	83	—	—	SUP
AW-1	04/01/92	38.11	23.22	—	14.89	—	—	—	—	—	—	—	—
AW-1	04/02/92	38.11	—	—	—	11000	1800	210	210	490	—	—	APP
AW-1	07/06/92	38.11	24.89	—	13.22	6500	4000	40	290	530	—	—	ANA
AW-1	10/07/92	38.11	26.55	—	11.56	4700	1500	41	47	300	—	—	ANA
QC-1 (c)	10/07/92	—	—	—	—	2900	1200	25	37	210	—	—	ANA
AW-1	01/14/93	38.11	23.73	—	14.38	2800	830	31	140	240	—	—	PACE
QC-1 (c)	01/14/93	—	—	—	—	4100	1700	28	130	230	—	—	PACE
AW-1	04/22/93	38.11		—	38.11	39000	14000	530	1800	6100	—	—	PACE
AW-1	07/15/93	38.11	22.50	—	15.61	6200	2200	28	210	540	—	—	PACE
AW-1	10/21/93	38.11	24.32	—	13.79	2400	820	13	55	120	—	—	PACE
AW-1	01/27/94	38.11	23.72	—	14.39	3500	1400	26	130	220	—	—	PACE
AW-1	04/21/94	38.11	22.48	—	15.63	40000	12000	1900	1600	5000	—	1.4	PACE
AW-1	09/09/94	38.11	23.04	—	15.07	3500	1600	5.0	200	250	—	2.1	PACE
QC-1 (c)	09/09/94	—	—	—	—	3900	1900	5.5	190	240	—	—	PACE
AW-1	12/21/94	38.11	21.70	—	16.41	7600	3100	36	370	320	—	1.6	PACE
AW-1	01/30/95	38.11	17.71	—	20.4	35000	23000	650	3200	4100	—	1.7	ATI
AW-1	04/10/95	38.11	20.04	—	18.07	60000	18000	2000	4300	11000	—	7.9	ATI
QC-1 (c)	04/10/95	—	—	—	—	56000	17000	2000	3900	10000	—	—	ATI
AW-1	06/29/95	38.11	20.60	—	17.51	72000	10000	7300	4200	15000	—	6.2	ATI
QC-1 (c)	06/29/95	—	—	—	—	86000	12000	8400	4800	18000	—	—	ATI
AW-1	09/18/95	38.11	21.87	—	16.24	—	—	—	—	—	—	—	—
AW-1	09/19/95	38.11	—	—	—	65000	12000	3100	4400	14000	1000	8.5	ATI
AW-1	12/07/95	38.11	22.06	—	16.05	25000	8700	ND<50	2500	1300	1100	2.9	ATI
AW-2	04/05/91	36.83	22.36	—	14.47	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	—	—	SUP
AW-2	04/01/92	36.83	20.81	—	16.02	—	—	—	—	—	—	—	—
AW-2	04/02/92	36.83	—	—	—	130	25	2.3	0.7	2.1	—	—	APP
AW-2	07/06/92	36.83	23.57	—	13.26	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	ANA
AW-2	10/07/92	36.83	25.24	—	11.59	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	ANA
AW-2	01/14/93	36.83	20.82	—	16.01	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
AW-2	04/22/93	36.83	19.37	—	17.46	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
AW-2	07/15/93	36.83	21.29	—	15.54	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
AW-2	10/21/93	36.83	23.14	—	13.69	ND<50	1.3	1.1	0.9	2.1	—	—	PACE
AW-2	01/27/94	36.83	22.34	—	14.49	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
AW-2	04/21/94	36.83	21.15	—	15.68	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	2.0	PACE
AW-2	09/09/94	36.83	22.09	—	14.74	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	4.1	PACE
AW-2	12/21/94	36.83	20.12	—	16.71	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	2.0	PACE
AW-2	01/30/95	36.83	16.65	—	20.18	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—	2.5	ATI
AW-2	04/10/95	36.83	16.22	—	20.61	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—	4.4	ATI
AW-2	06/29/95	36.83	17.55	—	19.28	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—	7.8	ATI
AW-2	09/18/95	36.83	19.87	—	16.96	—	—	—	—	—	—	—	—
AW-2	09/19/95	36.83	—	—	—	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	4.5	ATI
QC-1 (c)	09/19/95	—	—	—	—	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	—	ATI
AW-2	12/07/95	36.83	21.31	—	15.52	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	4.9	ATI
AW-3	04/05/91	39.13	23.90	—	15.23	5200	980	450	95	310	—	—	SUP
AW-3	04/01/92	39.13	22.50	—	16.63	4700	890	47	43	110	—	—	APP
AW-3	07/06/92	39.13	23.26	—	15.87	3900	3100	30	80	98	—	—	ANA
AW-3	10/07/92	39.13	24.75	—	14.38	5000	2600	ND<0.5	ND<0.5	58	—	—	ANA
AW-3	01/14/93	39.13	23.59	—	15.54	350	250	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
AW-3	04/22/93	39.13	19.42	—	19.71	240	71	2.4	0.6	4.0	—	—	PACE
AW-3	07/15/93	39.13	20.09	—	19.04	650	71	2.8	1.5	1.1	—	—	PACE
AW-3	10/21/93	39.13	21.88	—	17.25	160	4.8	1.7	1.6	3.6	—	—	PACE
QC-1 (c)	10/21/93	—	—	—	—	170	8.1	2.0	1.7	4.4	—	—	PACE
AW-3	01/27/94	39.13	22.33	—	16.80	92	2.1	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
QC-1 (c)	01/27/94	—	—	—	—	90	2.9	0.5	ND<0.5	ND<0.5	—	—	PACE
AW-3	04/21/94	39.13	20.96	—	18.17	150	3.6	0.8	0.9	2.5	—	1.3	PACE
AW-3	09/09/94	39.13	21.60	—	17.53	53	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	1.9	PACE
AW-3 (d)	12/21/94	39.13	—	—	—	—	—	—	—	—	—	—	—
AW-3 (d)	01/30/95	39.13	—	—	—	—	—	—	—	—	—	—	—
AW-3 (d)	04/10/95	39.13	—	—	—	—	—	—	—	—	—	—	—
AW-3	06/29/95	39.13	15.41	—	23.72	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—	8.0	ATI
AW-3	09/18/95	39.13	17.83	—	21.30	—	—	—	—	—	—	—	—
AW-3	09/19/95	39.13	—	—	—	61000	11000	2900	4100	13000	790	7.4	ATI
AW-3	12/07/95	39.13	19.27	—	19.86	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	3.4	ATI
QC-1 (c)	12/07/95	—	—	—	—	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. 11133
2220 98TH AVENUE, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-025

WELL ID	DATE OF MONITORING/ SAMPLING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
AW-4	04/05/91	39.08	25.12	---	13.96	110000	40000	13000	2000	5500	---	---	SUP
AW-4	04/01/92	39.08	23.56	—	15.52	230000	57000	31000	2900	7800	—	—	APP
AW-4 (e)	04/01/92	39.08	23.56	—	15.52	210000	55000	23000	2900	7000	—	—	APP
AW-4	07/06/92	39.08	25.87	—	13.21	38000	16000	5400	2000	6100	—	—	ANA
AW-4	10/07/92	39.08	27.53	—	11.55	120000	41000	26000	4700	13000	---	---	ANA
AW-4	01/14/93	39.08	24.12	—	14.96	62000	18000	14000	2700	7700	---	---	PACE
AW-4	04/22/93	39.08	21.47	—	17.61	18000	1100	2100	320	3500	—	—	PACE
AW-4	07/15/93	39.08	23.30	—	15.78	21000	820	2300	590	3800	---	---	PACE
AW-4	10/21/93	39.08	25.08	—	14.00	11000	570	83	630	2300	—	—	PACE
AW-4	01/27/94	39.08	24.61	—	14.47	12000	420	460	600	2200	—	—	PACE
AW-4	04/21/94	39.08	22.96	—	16.12	12000	110	250	150	1900	—	1.5	PACE
QC-1 (c)	04/21/94	—	---	---	---	14000	71	160	29	1200	—	—	PACE
AW-4	09/09/94	39.08	23.86	—	15.23	9700	75	64	280	2000	—	2.1	PACE
AW-4 (d)	12/21/94	—	—	—	—	—	—	—	—	—	—	—	—
AW-4 (d)	01/30/95	—	—	—	—	—	—	—	—	—	—	—	—
AW-4	04/10/95	39.08	18.07	—	21.01	3700	69	8.7	44	130	—	8.5	ATI
AW-4	06/29/95	39.08	19.25	---	19.83	8000	62	190	190	1100	---	7.5	ATI
AW-4	09/18/95	39.08	20.73	—	18.35	—	—	—	—	—	—	—	—
AW-4	09/19/95	39.08	—	—	—	12000	660	1600	200	1900	7100	8.3	ATI
AW-4	12/07/95	39.08	22.49	—	16.59	41000	8400	7200	710	6300	5200	3.6	ATI
AW-5	04/05/91	38.51	25.48	---	13.03	420	31	7.5	20	68	---	---	SUP
AW-5	04/01/92	38.51	23.95	—	14.56	—	---	---	---	---	---	---	---
AW-5	04/02/92	38.51	—	—	—	4000	270	63	190	290	—	—	APP
AW-5	07/06/92	38.51	26.48	—	12.03	1400	160	ND<2.5	250	58	—	---	ANA
AW-5	10/07/92	38.51	28.18	—	10.33	360	12	0.6	8.7	5	—	—	ANA
AW-5	01/14/93	38.51	24.16	---	14.36	1700	270	7.5	130	62	---	---	PACE
AW-5	04/22/93	38.51	22.43	—	16.08	2700	780	30	220	180	—	—	PACE
QC-1 (c)	04/22/93	38.51	—	—	—	3500	780	29	240	210	—	—	PACE
AW-5	07/15/93	38.51	24.31	—	14.20	1300	69	16	67	120	---	---	PACE
QC-1 (c)	07/15/93	38.51	---	—	---	1300	68	8.3	64	99	—	—	PACE
AW-5	10/21/93	38.51	26.05	---	12.46	510	9.6	1.5	17	45	---	---	PACE
AW-5	10/21/93	38.51	26.05	---	12.46	510	9.6	1.5	17	45	—	—	PACE
AW-5	01/27/94	38.51	26.42	—	12.09	420	3.3	ND<0.5	1.0	0.9	---	---	PACE
AW-5	04/21/94	38.51	24.36	—	14.15	1000	110	25	56	27	—	1.3	PACE
AW-5	09/09/94	38.51	24.55	—	13.96	210	ND<0.5	ND<0.5	0.5	0.9	—	2.7	PACE
AW-5	12/21/94	38.51	22.30	—	16.21	410	ND<0.5	20	4.3	1.4	—	1.1	PACE
QC-1 (c)	12/21/94	38.51	—	—	---	340	ND<0.5	15	3.3	1.4	---	---	PACE
AW-5	01/30/95	38.51	18.88	—	19.63	210	0.6	11	8.8	2	---	1.5	ATI
AW-5	04/10/95	38.51	18.44	—	20.07	500	1.4	0.59	6.5	4.3	—	8.3	ATI
AW-5	06/29/95	38.51	19.92	---	18.59	490	1.2	0.58	7.3	2.2	—	6.9	ATI
AW-5	09/18/95	38.51	22.15	—	16.36	—	—	—	—	—	—	—	—
AW-5	09/19/95	38.51	---	—	---	260	0.62	ND<0.50	3.1	1.1	110	8.2	ATI
AW-5	12/07/95	38.51	23.75	---	14.76	60	ND<0.50	ND<0.50	ND<0.50	ND<1.0	210	4.3	ATI
AW-6	04/05/91	37.08	22.48	---	14.60	1100	80	19	1.4	230	---	---	SUP
AW-6	04/01/92	37.08	22.50	—	14.58	—	—	—	—	—	—	—	—
AW-6	04/02/92	37.08	—	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	---	APP
AW-6	07/06/92	37.08	22.74	—	14.34	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	---	ANA
AW-6	10/07/92	37.08	24.64	—	12.44	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	---	ANA
AW-6	01/14/93	37.08	22.36	—	14.72	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
AW-6	04/22/93	37.08	22.82	---	14.26	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
AW-6	07/15/93	37.08	20.49	—	16.59	ND<50	ND<0.5	ND<0.5	ND<0.5	0.8	—	---	PACE
AW-6	10/21/93	37.08	22.84	—	14.24	ND<50	0.5	0.6	ND<0.5	0.7	—	—	PACE
AW-6	01/27/94	37.08	22.33	—	14.75	ND<50	ND<0.5	0.9	3.1	12	—	---	PACE
AW-6	04/21/94	37.08	20.66	—	16.42	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	1.7	PACE
AW-6	09/09/94	37.08	21.57	—	15.51	ND<50	0.9	ND<0.5	ND<0.5	0.5	—	2.9	PACE
AW-6	12/21/94	37.08	19.40	—	17.68	ND<50	1.8	0.6	0.8	3.2	—	1.1	PACE
AW-6	01/30/95	37.08	16.74	—	20.34	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—	2.2	ATI
QC-1 (c)	01/30/95	38.51	---	—	—	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—	—	ATI
AW-6	04/10/95	37.08	16.01	---	21.07	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—	8.6	ATI
AW-6	06/29/95	37.08	17.54	—	19.54	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—	6.3	ATI
AW-6	09/18/95	37.08	19.65	—	17.43	—	—	—	—	—	—	—	—
AW-6	09/19/95	37.08	—	—	—	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	25	8.3	ATI
AW-6	12/07/95	37.08	20.35	---	16.73	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	16	4.7	ATI

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
BP OIL COMPANY SERVICE STATION NO. 11133
2220 98TH AVENUE, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-025

WELL ID	DATE OF MONITORING/ SAMPLING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
AW-7	04/05/91	37.60	23.38	---	14.22	ND<50	0.4	0.7	ND<0.3	ND<0.3	---	---	SUP
AW-7	04/01/92	37.60	21.92	---	15.68	---	---	---	---	---	---	---	---
AW-7	04/02/92	37.60	---	---	---	ND<50	ND<0.5	3.2	1.0	5.4	---	---	APP
AW-7	07/06/92	37.60	24.50	---	13.10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	ANA
AW-7	10/07/92	37.60	26.18	---	11.42	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	ANA
AW-7	01/14/93	37.60	22.03	---	15.57	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
AW-7	04/22/93	37.60	21.18	---	16.42	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
AW-7	07/15/93	37.60	22.09	---	15.51	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
AW-7	10/21/93	37.60	24.05	---	13.55	51	5.0	4.2	3.5	8.2	---	---	PACE
AW-7	01/27/94	37.60	23.40	---	14.20	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
AW-7	04/21/94	37.60	22.24	---	15.36	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	2.5	PACE
AW-7	09/09/94	37.60	22.94	---	14.66	ND<50	ND<0.5	ND<0.5	ND<0.5	0.5	---	4.3	PACE
AW-7	12/21/94	37.60	20.86	---	16.74	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	2.2	PACE
AW-7	01/30/95	37.60	17.51	---	20.09	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	2.7	ATI
AW-7	04/10/95	37.60	16.69	---	20.91	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	4.8	ATI
AW-7	06/29/95	37.60	18.30	---	19.27	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	7.6	ATI
AW-7	09/18/95	37.60	20.68	---	16.92	---	---	---	---	---	---	---	---
AW-7	09/19/95	37.60	---	---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	5.1	ATI
AW-7	12/07/95	37.60	22.16	---	16.46	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	5.2	ATI
AW-8	04/05/91	40.86	26.68	---	14.18	80	1.9	2.2	0.5	1.3	---	---	SUP
AW-8	04/01/92	40.86	25.11	---	15.75	73	ND<0.5	0.7	ND<0.5	0.6	---	---	APP
AW-8	07/06/92	40.86	26.43	---	14.43	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	ANA
AW-8	10/07/92	40.86	28.59	---	12.27	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	ANA
AW-8	01/14/93	40.86	25.55	---	15.31	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
AW-8	04/22/93	40.86	22.29	---	18.57	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
AW-8	07/15/93	40.86	23.42	---	17.44	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
AW-8	10/21/93	40.86	25.15	---	15.71	ND<50	1.9	1.8	1.3	3.3	---	---	PACE
AW-8	01/27/94	40.86	25.42	---	15.44	ND<50	ND<0.5	0.5	0.6	8.5	---	---	PACE
AW-8	04/21/94	40.86	24.14	---	16.72	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	1.5	PACE
AW-8	09/09/94	40.86	24.55	---	16.31	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	2.4	PACE
AW-8	12/21/94	40.86	22.72	---	18.14	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	1.1	PACE
AW-8	01/30/95	40.86	19.75	---	21.11	ND<50	ND<0.50	1	ND<0.50	1	---	0.8	ATI
AW-8	04/10/95	40.86	17.78	---	23.08	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	8.3	ATI
AW-8	06/29/95	40.86	18.18	---	22.68	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	8.3	ATI
AW-8	09/18/95	40.86	20.20	---	20.66	---	---	---	---	---	---	---	---
AW-8	09/19/95	40.86	---	---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	7.7	ATI
AW-8	12/07/95	40.86	21.54	---	19.32	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	4.4	ATI
RW-1	04/05/91	37.73	---	---	---	---	---	---	---	---	---	---	---
RW-1	04/01/92	37.73	22.61	0.30	15.14	---	---	---	---	---	---	---	---
RW-1	07/06/92	37.73	26.92	0.41	11.12	---	---	---	---	---	---	---	---
RW-1	10/07/92	37.73	28.51	1.26	10.16	---	---	---	---	---	---	---	---
RW-1	01/14/93	37.73	23.75	0.25	14.17	---	---	---	---	---	---	---	---
RW-1	04/22/93	37.73	22.70	1.38	16.07	---	---	---	---	---	---	---	---
RW-1	07/15/93	37.73	26.10	0.81	12.24	---	---	---	---	---	---	---	---
RW-1	10/21/93	37.73	25.40	0.49	12.70	---	---	---	---	---	---	---	---
RW-1	10/21/93	37.73	25.40	0.49	12.70	---	---	---	---	---	---	---	---
RW-1	01/27/94	37.73	28.02	0.37	9.99	---	---	---	---	---	---	---	---
RW-1	04/21/94	37.73	23.10	0.91	15.31	---	---	---	---	---	---	---	---
RW-1	09/09/94	37.73	24.39	1.04	14.12	---	---	---	---	---	---	---	---
RW-1 (f)	12/21/94	37.73	---	---	---	---	---	---	---	---	---	---	---
RW-1	12/07/95	37.73	25.71	1.04	12.80	150000	34000	35000	4300	21000	2700	---	ATI

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
BP OIL COMPANY SERVICE STATION NO. 11133
2220 98TH AVENUE, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-025

WELL ID	DATE OF MONITORING/ SAMPLING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
QC-2 (g)	10/07/92	—	—	—	—	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	ANA
QC-2 (g)	01/14/93	—	—	—	—	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
QC-2 (g)	04/22/93	—	—	—	—	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
QC-2 (g)	07/15/93	—	—	—	—	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
QC-2 (g)	10/21/93	—	—	—	—	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
QC-2 (g)	01/27/94	—	—	—	—	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
QC-2 (g)	04/21/94	—	—	—	—	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
QC-2 (g)	08/08/94	—	—	—	—	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
QC-2 (g)	12/21/94	—	—	—	—	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
QC-2 (g)	01/30/95	—	—	—	—	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—	—	ATI
QC-2 (g)	04/10/95	—	—	—	—	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—	—	ATI
QC-2 (g)	06/27/95	—	—	—	—	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	—	—	ATI
QC-2 (g)	09/19/95	—	—	—	—	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	—	ATI
QC-2 (g)	12/07/95	—	—	—	—	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
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total xylenes
MTBE	Methyl tert butyl ether
DO	Dissolved oxygen
ug/l	Micrograms per liter
ppm	Parts per million
—	Not available/applicable/measurable
ND	Not detected above reported detection limit
PACE	Pace, Inc.
SUP	Superior Analytical Laboratories, Inc.
APP	Applied Analytical Laboratory
ANA	Anametrix, Inc.
ATI	Analytical Technologies, Inc.

NOTES:

(a) Top of casing elevations surveyed to the nearest 0.01 foot above mean sea level.

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

(c) Blind duplicate.

(d) Well inaccessible.

(e) Duplicate.

(f) Well not monitored and/or sampled due to vapor extraction system.

(g) Travel blank.

FXX10-025025-9-2.WQ2

TABLE 2 - PRODUCT REMOVAL STATUS

BP OIL COMPANY SERVICE STATION NO. 11133
2220 98TH STREET, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-025

WELL ID	DATE	PRODUCT REMOVED (Gallons)	PRODUCT REMOVED CUMULATIVE (Gallons)
RW-1	10/06/93	1.00	1.00
	10/14/94	1.00	2.00
	10/20/94	18.00	20.00
	10/26/94	3.00	23.00
	11/02/93	5.00	28.00
	11/10/94	6.00	34.00
	11/16/94	2.50	36.50
	11/23/94	5.00	41.50
	11/30/93	2.00	43.50
	12/07/93	4.00	47.50
	12/17/93	1.50	49.00
	01/04/94	5.00	54.00
	01/12/94	3.50	57.50
	01/20/94	2.50	60.00
	02/11/94	4.00	64.00
	02/18/93	3.50	67.50
	02/25/94	3.00	70.50
	03/04/94	3.50	74.00
	03/18/94	5.50	79.50
	03/30/94	4.00	83.50
	04/13/94	4.60	88.10
	04/21/94	4.20	92.30
	04/29/94	4.50	96.80
	05/06/94	5.50	102.30
	05/13/94	3.50	105.80
	05/20/94	3.50	109.30
	05/26/94	4.50	113.80
	06/02/94	3.50	117.30
	06/09/94	2.50	119.80
	06/16/94	3.50	123.30
	06/23/94	4.00	127.30
	06/29/94	2.50	129.80
	07/07/94	2.00	131.80
	07/12/94	3.00	134.80
	07/20/94	1.50	136.30
	07/29/94	3.50	139.80
	08/05/94	1.50	141.30
	08/12/94	2.00	143.30
	08/18/94	2.50	145.80
	09/09/94	3.50	149.30
	09/16/94	4.00	153.30
	09/23/94	2.00	155.30
	12/07/95	0.00	155.30
MW-1	10/20/93	0.10	0.1
	11/10/93	0.10	0.2
	09/09/94	SHEEN	0.2
	10/26/94	SHEEN	0.2
	11/16/94	SHEEN	0.2
	12/21/94	0.25	0.45
	02/08/95	0.00	0.45
	04/10/95	0.25	0.70
	06/29/95	SHEEN	0.70
	09/18/95	SHEEN	0.70
	12/07/95	SHEEN	0.70

Note: Groundwater and soil vapor extraction equipment installed in RW-1 in October 1994.

SOURCE:
USGS MAP, OAKLAND EAST AND SAN LEANDRO QUADRANGLES, CALIFORNIA. 7.5 MINUTE SERIES. 1956. PHOTOREVISED 1980.

N

0 1000' 2000'

FIGURE 1

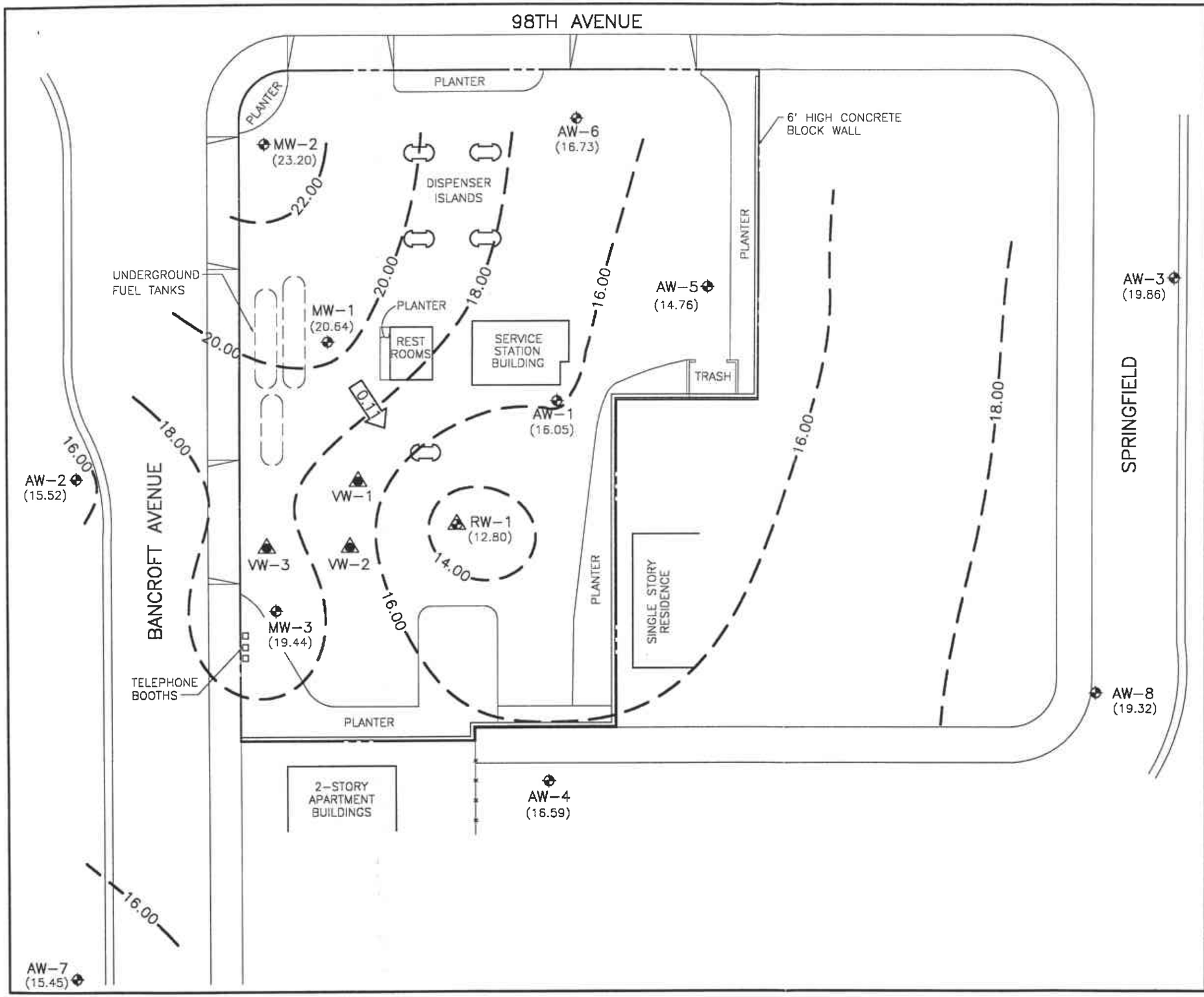
SITE VICINITY MAP

BP OIL SERVICE STATION NO. 11133
2220 98TH AVENUE
OAKLAND, CALIFORNIA

PROJECT NO. 10-025

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

10025G---.DWG 3-22-94 RKW 1-1



LEGEND

- GROUNDWATER MONITORING WELL
- COMBINED GROUNDWATER RECOVERY/VAPOR EXTRACTION WELL
- (15.52) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- 16.00 GROUNDWATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL (CONTOUR INTERVAL-2.00 FEET)
- 0.11 CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE IN FOOT PER FOOT

FIGURE 2

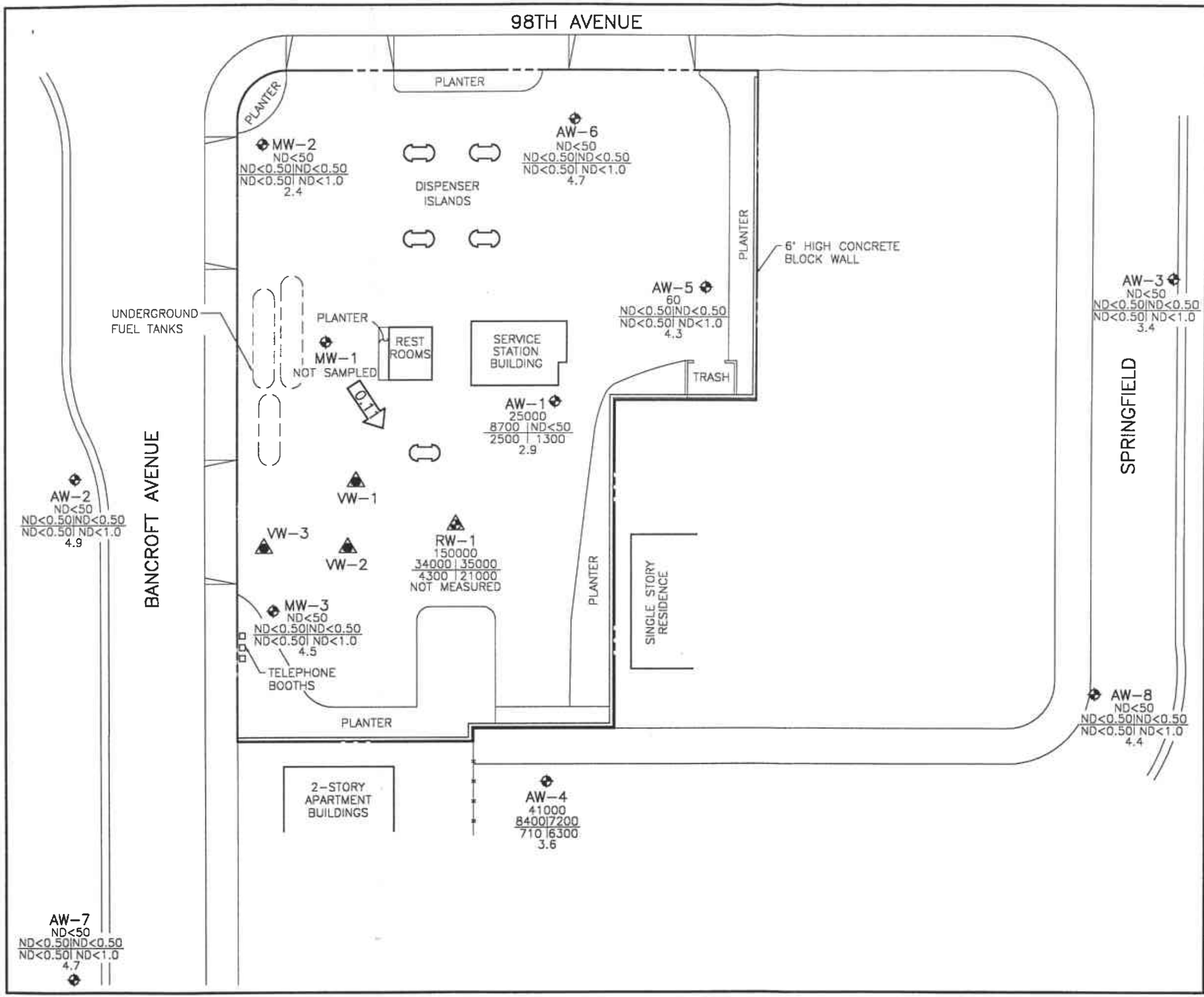
POTENTIOMETRIC GROUNDWATER ELEVATION CONTOUR MAP

DECEMBER 7, 1995

BP OIL SERVICE STATION NO. 11133
2220 98TH AVENUE
OAKLAND, CALIFORNIA

PROJECT NO. 10-025

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA



LEGEND

⊕	GROUNDWATER MONITORING WELL
⊕	COMBINED GROUNDWATER RECOVERY/VAPOR EXTRACTION 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
⟵ 0.11	CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE IN FOOT PER FOOT

FIGURE 3

CONCENTRATIONS OF PETROLEUM HYDROCARBONS IN GROUNDWATER

DECEMBER 7, 1995

BP OIL SERVICE STATION NO. 11133
2220 98TH AVENUE
OAKLAND, CALIFORNIA

PROJECT NO. 10-025

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

APPENDIX A

WATER SAMPLING FIELD SURVEY FORMS

ALISTO

Field Report / Sampling Data Sheet

ENGINEERING
GROUP
1575 TREAT BOULEVARD, SUITE 201

Project No. 10-025-09-002 Date: 12/7/95
Address 2220 98TH Ave. Day: M T W (TH) F
Contract No. G602112 City: Oakland
Station No. BP 11133 Sampler: LB / CD

DEPTH TO GROUNDWATER SUMMARY

WELL ID	SAMPLE ID	WELL DIAM	TOTAL DEPTH	DEPTH TO WATER	PRODUCT THICKNESS	TIME SAMPLED	COMMENTS:
MW-1	N/S	2"	N/M	13.82	irredescent	N/S	PPRS Irredescent, Service PPRS, 1(gal) water
MW-2	S-3	2"	34.10	12.30	Ø	1350	
MW-3	S-6	2"	21.83	17.09		1425	
AW-1	S-8	2"	38.60	22.06		1450	
AW-2	S-2	2"	35.20	21.31		1414	Needs 6" Monument
AW-3	S-11	2" 45.0	[illegible]	[illegible]	19.27	1506	
AW-4	S-9	2"	35.00	22.49		1327	
AW-5	S-7	4"	42.90	23.75		1440	Needs 8" Monument
AW-6	S-4	4"	34.20	20.35		1410	
AW-7	S-1	2"	32.30	22.15		1359	
AW-8	S-5	2"	39.20	21.54		1330	
RW-1	S-10	6"	N/M	25.71		1525	Sample through dip tube Pumping System

FIELD INSTRUMENT CALIBRATION DATA

pH METER I Cm 4.00 4 7.00 7 10.00 10 TEMPERATURE COMPENSATED (Y) N TIME 0945

D.O. METER I Cm ZERO d.O. SOLUTION 0 BAROMETRIC PRESSURE 760 TEMP 65 WEATHER Cloudy

CONDUCTIVITY METER I Cm 10,000 other 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.	
AW-7	22.15	2"	OK	Ø	Y (N)	1.5	1343	60.9	7.26	296µS	5.0	O EPA 601
Total Depth - Water Level=		x Well Vol. Factor=		x#vol. to Purge	PurgeVol.	3.0		60.0	7.13	305µS		O TPH-G/BTEX
32.30 - 22.15 = 10.15 x .16 = 1.62 x 3 = 4.87						4.75	1358	60.0	7.12	307µS	5.2	O TPH Diesel
Purge Method: OSurface Pump ODisp.Tube OWinch ⊗Disp. Bailer(s) 1 OSys Port												O TOG 5520
Comments:												TIME/SAMPLE ID: 1359 / S-1

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Iridescence	Gal.	Time	Temp °F	pH	E.C.	D.O.	
AW-2	21.31	2"	OK	Ø	Y (N)	2.25	1404	60.7	7.93	251µS	4.7	O EPA 601
Total Depth - Water Level=		x Well Vol. Factor=		x#vol. to Purge	PurgeVol.	4.50		60.2	7.82	264µS		O TPH-G/BTEX
35.20 - 21.31 = 13.89 x .16 = 2.22 x 3 = 6.67						6.75	1412	60.0	7.76	267µS	4.9	O TPH Diesel
Purge Method: OSurface Pump ODisp.Tube OWinch ⊗Disp. Bailer(s) 1 OSys Port												O TOG 5520
Comments:												TIME/SAMPLE ID: 1414 / 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. 10-025-09-002 Date: 12/7/95
Address 2220 98TH Ave. Day: M T W (TH) F
Contract No. G602112 City: Oakland
Station No. BP 11133 Sampler: LB / CD

Well ID MW-2 | Depth to Water 12.30 | Diam 2" | Cap/Lock OK | Product Dept Ø | Iridescence Y (N)

Total Depth - Water Level= 34.10 - 12.30 = 21.80 | x Well Vol. Factor= x .16 = 3.49 | x#vol. to Purge x 3 = 10.46 | PurgeVol.

Purge Method: OSurface Pump ODisp.Tube OWinch ⊗Disp. Bailer(s) 1 OSys Port

Comments:

Gal.	Time	Temp °F	pH	E.C.	D.O.
3.5	1338	62.5	7.41	276 µS	3.5
7.0	1342	62.7	7.41	252 µS	
10.5	1347	63.1	7.41	182 µS	2.4

O EPA 601 ____
⊗ TPH-G/BTEX HCl
O TPH Diesel ____
O TOG 5520 ____
TIME/SAMPLE ID: 1350 / S-3

Well ID AW-6 | Depth to Water 20.35 | Diam 4" | Cap/Lock OK | Product Dept Ø | Iridescence Y (N)

Total Depth - Water Level= 34.20 - 20.35 = 13.85 | x Well Vol. Factor= x .65 = 9.00 | x#vol. to Purge x 3 = 27.00 | PurgeVol.

Purge Method: OSurface Pump ODisp.Tube OWinch ⊗Disp. Bailer(s) 3 OSys Port

Comments:

Gal.	Time	Temp °F	pH	E.C.	D.O.
9	1359	61.9	7.27	288 µS	4.5
18	1403	61.6	7.70	295 µS	
27	1407	61.1	7.95	296 µS	4.7

O EPA 601 ____
⊗ TPH-G/BTEX HCl
O TPH Diesel ____
O TOG 5520 ____
TIME/SAMPLE ID: 1410 / S-4

Well ID AW-8 | Depth to Water 21.54 | Diam 2" | Cap/Lock OK | Product Dept Ø | Iridescence Y (N)

Total Depth - Water Level= 39.20 - 21.54 = 17.66 | x Well Vol. Factor= x .16 = 2.83 | x#vol. to Purge x 3 = 8.48 | PurgeVol.

Purge Method: OSurface Pump ODisp.Tube OWinch ⊗Disp. Bailer(s) 1 OSys Port

Comments:

Gal.	Time	Temp °F	pH	E.C.	D.O.
3	1300	63.3	9.26	466 µS	5.1
6	1305	60.8	7.28	500 µS	
9	1326	60.6	7.06	494 µS	4.4

O EPA 601 ____
⊗ TPH-G/BTEX HCl
O TPH Diesel ____
O TOG 5520 ____
TIME/SAMPLE ID: 1330 / S-5

Well ID MW-3 | Depth to Water 17.09 | Diam 2" | Cap/Lock OK | Product Dept Ø | Iridescence Y (N)

Total Depth - Water Level= 21.83 - 17.09 = 4.75 | x Well Vol. Factor= x .16 = .76 | x#vol. to Purge x 3 = 2.28 | PurgeVol.

Purge Method: OSurface Pump ODisp.Tube OWinch ⊗Disp. Bailer(s) 1 OSys Port

Comments:

Gal.	Time	Temp °F	pH	E.C.	D.O.
1.0	1415	59.7	7.19	320 µS	5.5
1.75	1418	60.2	7.20	323 µS	
2.5	1422	61.4	7.16	320 µS	4.5

O EPA 601 ____
⊗ TPH-G/BTEX HCl
O TPH Diesel ____
O TOG 5520 ____
TIME/SAMPLE ID: 1425 / S-6

Well ID AW-5 | Depth to Water 23.75 | Diam 4" | Cap/Lock OK | Product Dept Ø | Iridescence Y (N)

Total Depth - Water Level= 42.90 - 23.75 = 19.15 | x Well Vol. Factor= x .65 = 12.45 | x#vol. to Purge x 3 = 37.34 | PurgeVol.

Purge Method: OSurface Pump ODisp.Tube OWinch ⊗Disp. Bailer(s) 3 OSys Port

Comments:

Gal.	Time	Temp °F	pH	E.C.	D.O.
12	1428	61.0	8.27	228 µS	5.0
24		61.7	8.11	215 µS	
37	1436	60.6	8.09	210 µS	4.3

O EPA 601 ____
⊗ TPH-G/BTEX HCl
O TPH Diesel ____
O TOG 5520 ____
TIME/SAMPLE ID: 1440 / 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. 10-025-09-002 | Date: 12/7/95
Address 2220 98TH Ave. | Day: M T W TH F
Contract No. G602112 | City: Oakland
Station No. BP 11133 | Sampler: LB / CD

Well ID	Depth to Water	Diam	Cap/Lock	Product Dept	Iridescence	Gal.	Time	Temp °F	pH	E.C.	D.O.
AW-1	22.06	2"	OK	0	Y (N)	2.75	1442	61.3	8.41	758µS	4.9
Total Depth - Water Level=	x Well Vol. Factor=	x#vol. to Purge	PurgeVol.			5.50	1445	69.8	8.36	455µS	
38.60 - 22.06 = 16.54 x .16 = 2.65 x 3 = 7.94						8.0	1449	60.0	8.43	465µS	2.9

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: 1450 / S-8

Well ID	Depth to Water	Diam	Cap/Lock	Product Dept	Iridescence	Gal.	Time	Temp °F	pH	E.C.	D.O.
AW-4	22.49	2"	OK	0	Y (N)	2	1310	59.8	7.39	516µS	3.8
Total Depth - Water Level=	x Well Vol. Factor=	x#vol. to Purge	PurgeVol.			4		59.2	7.27	519µS	
35.00 - 22.49 = 12.51 x .16 = 2.00 x 3 = 6.00						6	1324	58.6	7.21	521µS	3.6

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: 1327 / S-9

* AW-3

45.00 - 19.27 = 25.73 x .16 = 4.12 x 3 = 12.35

	Temp.	pH	E.C.	D.O.	
4	1455	58.9	7.79	601µS	4.4	
8	1458	59.0	8.05	611µS		
12	1502	57.5	7.54	612µS	3.4	1505 / S-11

QC-1 is AW-3
(S-12) is QC-1
(S-13) is QC-2

Sampled 1506

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.: 512115

December 20, 1995

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

Project Name: BP SITE #11133/OAKLAND, CA
Project # : G602112/10-025-09/002

Attention: BRADY NAGLE

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

Date Received	Quantity	Matrix
December 09, 1995	13	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

ALAN J. KLEINSCHMIDT
LABORATORY MANAGER

SAMPLE CROSS REFERENCE

Client : ALISTO ENGINEERING
Project # : G602112/10-025-09/002
Project Name: BP SITE #11133/OAKLAND, CA

Report Date: December 20, 1995
ATI I.D. : 512115

ATI #	Client Description	Matrix	Date Collected
1	S-1	WATER	07-DEC-95
2	S-2	WATER	07-DEC-95
3	S-3	WATER	07-DEC-95
4	S-4	WATER	07-DEC-95
5	S-5	WATER	07-DEC-95
6	S-6	WATER	07-DEC-95
7	S-7	WATER	07-DEC-95
8	S-8	WATER	07-DEC-95
9	S-9	WATER	07-DEC-95
10	S-10	WATER	07-DEC-95
11	S-11	WATER	07-DEC-95
12	S-12	WATER	07-DEC-95
13	S-13	WATER	07-DEC-95

---TOTALS---

Matrix	# Samples
WATER	13

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 # : G602112/10-025-09/002 ATI I.D.: 512115
Project Name: BP SITE #11133/OAKLAND, CA

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. : 512115
Project # : G602112/10-025-09/002
Project Name: BP SITE #11133/OAKLAND, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
1	S-1	WATER	07-DEC-95	N/A	13-DEC-95	1.00
2	S-2	WATER	07-DEC-95	N/A	13-DEC-95	1.00
3	S-3	WATER	07-DEC-95	N/A	13-DEC-95	1.00

Parameter	Units	1	2	3
METHYL T-BUTYL ETHER	UG/L	<5.0	<5.0	<5.0
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	%	94	96	90

GAS CHROMATOGRAPHY RESULTS

Test : MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)
Client : ALISTO ENGINEERING ATI I.D. : 512115
Project # : G602112/10-025-09/002
Project Name: BP SITE #11133/OAKLAND, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
4	S-4	WATER	07-DEC-95	N/A	13-DEC-95	1.00
5	S-5	WATER	07-DEC-95	N/A	13-DEC-95	1.00
6	S-6	WATER	07-DEC-95	N/A	13-DEC-95	1.00

Parameter	Units	4	5	6
METHYL T-BUTYL ETHER	UG/L	16	<5.0	91
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	%	94	95	104

GAS CHROMATOGRAPHY RESULTS

Test : MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)
Client : ALISTO ENGINEERING ATI I.D. : 512115
Project # : G602112/10-025-09/002
Project Name: BP SITE #11133/OAKLAND, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
7	S-7	WATER	07-DEC-95	N/A	13-DEC-95	1.00
8	S-8	WATER	07-DEC-95	N/A	14-DEC-95	100.00
9	S-9	WATER	07-DEC-95	N/A	14-DEC-95	100.00

Parameter	Units	7	8	9
METHYL T-BUTYL ETHER	UG/L	210	1100	5200
BENZENE	UG/L	<0.50	8700	8400
TOLUENE	UG/L	<0.50	<50	7200
ETHYLBENZENE	UG/L	<0.50	2500	710
XYLENES (TOTAL)	UG/L	<1.0	1300	6300
FUEL HYDROCARBONS	UG/L	60	25000	41000
HYDROCARBON RANGE		C6-C12	C6-C12	C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE	GASOLINE	GASOLINE
SURROGATES				
TRIFLUOROTOLUENE	%	97	95	98

GAS CHROMATOGRAPHY RESULTS

Test : MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)
Client : ALISTO ENGINEERING ATI I.D. : 512115
Project # : G602112/10-025-09/002
Project Name: BP SITE #11133/OAKLAND, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
10	S-10	WATER	07-DEC-95	N/A	15-DEC-95	500.00
11	S-11	WATER	07-DEC-95	N/A	14-DEC-95	1.00
12	S-12	WATER	07-DEC-95	N/A	14-DEC-95	1.00

Parameter	Units	10	11	12
METHYL T-BUTYL ETHER	UG/L	2700	<5.0	<5.0
BENZENE	UG/L	34000	<0.50	<0.50
TOLUENE	UG/L	35000	<0.50	<0.50
ETHYLBENZENE	UG/L	4300	<0.50	<0.50
XYLENES (TOTAL)	UG/L	21000	<1.0	<1.0
FUEL HYDROCARBONS	UG/L	150000	<50	<50
HYDROCARBON RANGE		C6-C12	C6-C12	C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE	GASOLINE	GASOLINE
SURROGATES				
TRIFLUOROTOLUENE	%	94	99	91

GAS CHROMATOGRAPHY RESULTS

Test : MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)
Client : ALISTO ENGINEERING ATI I.D. : 512115
Project # : G602112/10-025-09/002
Project Name: BP SITE #11133/OAKLAND, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
13	S-13	WATER	07-DEC-95	N/A	13-DEC-95	1.00

Parameter	Units	13
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	%	96

GAS CHROMATOGRAPHY - QUALITY CONTROL

REAGENT BLANK

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
Blank I.D. : 37611
Client : ALISTO ENGINEERING
Project # : G602112/10-025-09/002
Project Name: BP SITE #11133/OAKLAND, CA

ATI I.D. : 512115
Date Extracted: N/A
Date Analyzed : 13-DEC-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	%	96

GAS CHROMATOGRAPHY - QUALITY CONTROL

REAGENT BLANK

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
Blank I.D. : 37644
Client : ALISTO ENGINEERING
Project # : G602112/10-025-09/002
Project Name: BP SITE #11133/OAKLAND, CA

ATI I.D. : 512115
Date Extracted: N/A
Date Analyzed : 14-DEC-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	%	99

GAS CHROMATOGRAPHY - QUALITY CONTROL

MSMSD

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
MSMSD # : 80777
Client : ALISTO ENGINEERING

Project # : G602112/10-025-09/002
Project Name: BP SITE #11133/OAKLAND, CA

ATI I.D. : 512115
Date Extracted: N/A
Date Analyzed : 14-DEC-95
Sample Matrix : WATER
REF I.D. : 512115-11

Parameters	Units	Sample Result	Conc Spike	Spiked Sample	% Rec	Dup Spike	Dup % Rec	RPD
BENZENE	UG/L	<0.50	5.0	5.3	106	5.3	106	0
TOLUENE	UG/L	<0.50	5.0	5.1	102	4.9	98	4

% 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 #: 60520
Client : ALISTO ENGINEERING
Project # : G602112/10-025-09/002
Project Name : BP SITE #11133/OAKLAND, CA

ATI I.D. : 512115
Date Extracted: N/A
Date Analyzed : 13-DEC-95
Sample Matrix : WATER

Parameters	Units	Blank Result	Spiked Sample	Spike Conc.	% Rec
BENZENE	UG/L	<0.50	5.1	5.0	102
TOLUENE	UG/L	<0.50	5.2	5.0	104

% 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 #: 60603
Client : ALISTO ENGINEERING
Project # : G602112/10-025-09/002
Project Name : BP SITE #11133/OAKLAND, CA

ATI I.D. : 512115
Date Extracted: N/A
Date Analyzed : 14-DEC-95
Sample Matrix : WATER

Parameters	Units	Blank Result	Spiked Sample	Spike Conc.	% Rec
BENZENE	UG/L	<0.50	5.0	5.0	100
TOLUENE	UG/L	<0.50	5.0	5.0	100

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

ACCESSION #: 512115 INITIALS: LQ

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
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 (NA)
	b) are Custody Seals present on the sample ?	YES	(NO)
	If yes, are seals intact ?	YES	NO (NA)
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.	3.9 °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: *(6) Date taken from C.O.C.

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 # 512115

CHAIN OF CUSTODY

No. 066945 Page 1 of 1

CONSULTANT'S NAME	ADDRESS	CITY	STATE	ZIP CODE
Alisto Engineering	1575 Treat Blvd # 201	W. C.	Ca	94598

BP SITE NUMBER	BP CORNER ADDRESS/CITY	CONSULTANT PROJECT NUMBER
11133	Oakland, Ca	10-025-01/002

CONSULTANT PROJECT MANAGER	PHONE NUMBER	FAX NUMBER	CONSULTANT CONTRACT NUMBER
Brady Nagle	(510) 295-1650	295-1823	6602112

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

LAB CONTACT	LABORATORY ADDRESS	PHONE NUMBER	FAX NO.
ATI	San Diego, Ca		

SAMPLED BY (Please Print Name)	SAMPLED BY (Signature)	SHIPMENT DATE	SHIPMENT METHOD
Larry Buenviaje	[signature]		Fed Express

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

AIRBILL NUMBER: 6680235214

ANALYSIS REQUIRED

SAMPLE DESCRIPTION	COLLECTION DATE / COLLECTION TIME	MATRIX SOIL/WATER	CONTAINERS NO.	TYPE (VOL.)	PRESERVATIVE / LAB SAMPLE #	TPH-G	BTEX	TPH-D									COMMENTS
S-1	12/7/95	W	2	HCl	01	X											Time 1359
S-2	↓	↓	↓	↓	02	↓											1414
S-3					03												1350
S-4					04												1410
S-5					05												1330
S-6					06												1425
S-7					07												1440
S-8					08												1450
S-9					09												1327
S-10					10												1525
S-11					11												1506
S-12					12												1507
S-13	↓	↓	↓	↓	13	↓	↓										1250

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	12/8/95	0900	[signature] Alisto	12/8/95	1430
[signature] Alisto	12/8/95	1430	[signature] / ATI	12/9/95	14:05

ADDITIONAL COMMENTS

3.9°C

CLV-16722
PKG/50

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