

GROUNDWATER MONITORING AND SAMPLING REPORT

**BP Oil Company Service Station No. 11116
7197 Village Parkway
Dublin, California**

Project No. 10-017-03-002

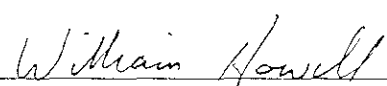
Prepared for:

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


Prepared by:

**Alisto Engineering Group
1777 Oakland Boulevard, Suite 200
Walnut Creek, California**

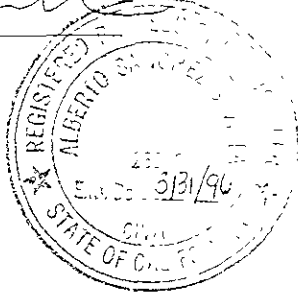
December 29, 1994



William Howell
Project Manager



Al Sevilla, P.E.
Principal



A circular seal for the State of California. The outer ring contains the text "REGISTERED PROFESSIONAL ENGINEER" at the top and "STATE OF CALIFORNIA" at the bottom. The inner circle contains the name "AL SEVILLA" and the date "EXPIRES 3/31/96".



BP OIL

shd 2043

BP Oil Company
Environmental Resources Management
Building 13, Suite N
295 SW 41st Street
Renton, Washington 98055-4931
(206) 251-0667

January 24, 1995

Ms. Juliette Shin
Alameda County Health Care Services Agency
80 Swan Way, Room 200
Oakland CA 94621

- Ask about
- ① MAP regional
 - ② Soil, GW invest around site
 - ③ Check GW flow direction
 - ④ Send reports to me in more timely manner, w/in 60 days upon completion of field act.

RE: **BP OIL FACILITY #11116**
7197 Village Parkway
Dublin CA

Dear Ms. Shin:

Attached please find our **GROUNDWATER MONITORING AND SAMPLING REPORT DATED DECEMBER 29, 1994** for the above referenced facility.

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

Respectfully,

Scott T. Hooton
Environmental Resources Management
Group Leader

STH:mu msword\ERM11116

cc: Mr. Eddy So, California Regional Water Quality Control Board, San Francisco Bay Region, 2101 Webster St. Suite 500, Oakland CA 94612

Mr. Brady Nagle, Alisto Engineering Group, 1777 Oakland Blvd., Suite 200, Walnut Creek, CA 94596

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

Site File

GROUNDWATER MONITORING AND SAMPLING REPORT

BP Oil Company Service Station No. 11116
7197 Village Parkway
Dublin, California

Project No. 10-017-03-002

December 29, 1994

INTRODUCTION

This report presents the results and findings of the October 4, 1994 groundwater monitoring and sampling conducted by Alisto Engineering Group at BP Oil Company Service Station No. 11116, 7197 Village Parkway, Dublin, California. A site vicinity map is shown in 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. 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, and electrical conductivity. 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 elevation contour map is shown in Figure 2. The results of groundwater analysis are shown in 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. 11116
 7197 VILLAGE PARKWAY, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-017

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ppb)	TPH-D (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	TOG (ppb)	HVOC (ppb)	DO (ppm)	LAB
MW 1	10/12/90	335.17	9.92	325.25	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5000	ND	---	ANA
MW 1	11/15/90	335.17	10.16	325.01	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	ANA
MW 1	12/11/90	335.17	9.97	325.20	---	---	---	---	---	---	---	---	---	---
MW 1	02/15/91	335.17	9.89	325.28	ND<50	50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<5000	41 (c)	---	SUP
MW 1	05/14/91	335.17	8.43	326.74	ND<50	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	7500	ND	---	SUP
MW 1	08/23/91	335.17	9.98	325.19	ND<50	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<5000	ND	---	ANA
MW 1	11/13/91	335.17	10.09	325.08	ND<30	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<5000	ND	---	SEQ
MW-1	02/25/92	335.17	8.28	326.89	ND<30	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<5000	ND	---	SEQ
MW 1	04/15/92	335.17	8.50	326.67	---	---	---	---	---	---	---	---	---	---
MW 1	06/03/92	335.17	9.06	326.11	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5000	ND	---	ANA
MW 1	08/12/92	335.17	10.01	325.16	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5000	ND	---	ANA
MW 1	11/10/92	335.17	10.67	324.50	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5000	ND	---	ANA
MW 1	02/10/93	335.17	5.25	329.92	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5000	ND	---	PACE
MW 1	05/21/93	335.17	5.73	329.44	---	---	---	---	---	---	---	---	---	---
MW-1	08/12/93	335.17	8.99	326.18	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
MW 1	11/11/93	335.17	9.65	325.62	---	---	---	---	---	---	---	---	---	---
MW 1	02/11/94	335.17	8.72	326.45	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5000	ND	---	PACE
MW 1	05/17/94	335.17	8.17	327.00	---	---	---	---	---	---	---	---	---	---
MW 1	06/20/94	335.17	8.37	326.80	---	---	---	---	---	---	---	---	---	---
MW 1	10/04/94	335.17	9.66	325.51	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	6.5	PACE
MW 2	10/12/90	334.58	9.60	324.98	93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5000	ND	---	ANA
MW 2	11/15/90	334.58	9.68	324.90	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	ANA
MW 2	12/11/90	334.58	9.47	325.11	---	---	---	---	---	---	---	---	---	---
MW 2	02/15/91	334.58	9.28	325.30	ND<50	80	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<5000	45 (c)	---	SUP
MW 2	05/14/91	334.58	7.74	326.84	130	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	6000	ND	---	SUP
MW-2	08/23/91	334.58	9.81	324.77	ND<50	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<5000	ND	---	ANA
MW 2	11/13/91	334.58	9.73	324.85	ND<30	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<5000	ND	---	SEQ
MW 2	02/25/92	334.58	7.55	327.03	ND<30	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<5000	ND	---	SEQ
MW 2	04/15/92	334.58	8.00	326.58	---	---	---	---	---	---	---	---	---	---
MW 2	06/03/92	334.58	8.56	326.02	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5000	ND	---	ANA
MW 2	08/12/92	334.58	9.62	324.96	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5000	ND	---	ANA
MW 2	11/10/92	334.58	10.27	324.31	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5000	ND	---	ANA
MW 2	02/10/93	334.58	6.46	328.12	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
MW 2	05/21/93	334.58	6.96	327.62	---	---	---	---	---	---	---	---	---	---
MW 2	08/12/93	334.58	8.58	326.00	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
MW 2	11/11/93	334.58	9.28	325.30	---	---	---	---	---	---	---	---	---	---
MW 2	02/11/94	334.58	8.10	326.48	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
MW 2	05/17/94	334.58	7.71	326.87	---	---	---	---	---	---	---	---	---	---
MW-2	06/20/94	334.58	7.93	326.65	---	---	---	---	---	---	---	---	---	---
MW 2	10/04/94	334.58	9.27	325.31	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	5.3	PACE

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
 BP OIL COMPANY SERVICE STATION NO. 11116
 7197 VILLAGE PARKWAY, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-017

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ppb)	TPH-D (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	TOG (ppb)	HVOC (ppb)	DO (ppm)	LAB
MW 3	10/12/90	335 13	10.08	325.05	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5000	ND	--	ANA
MW 3	11/15/90	335 13	10.12	325.01	76	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	ANA
MW 3	12/11/90	335 13	9.92	325.21	--	--	--	--	--	--	--	--	--	--
MW 3	02/15/90	335 13	9.84	325.29	ND<50	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<5000	ND	--	SUP
MW 3	05/14/91	335 13	8.40	326.73	ND<50	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<5000	ND	--	SUP
MW-3	08/23/91	335 13	10.27	324.86	ND<50	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<5000	ND	--	ANA
MW-3	11/13/91	335 13	10.27	324.86	ND<30	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<5000	ND	--	SEQ
MW 3	02/25/92	335 13	8.15	326.98	ND<30	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<5000	ND	--	SEQ
MW 3	04/15/92	335 13	8.63	326.50	--	--	--	--	--	--	--	--	--	--
MW 3	06/03/92	335 13	9.18	325.95	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5000	ND	--	ANA
MW 3	08/12/92	335 13	10.18	324.95	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5000	ND	--	ANA
MW-3	11/10/92	335 13	10.78	324.35	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5000	ND	--	ANA
MW 3	02/10/93	335 13	7.16	327.97	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5000	ND	--	PACE
MW 3	05/21/93	335 13	7.69	327.44	--	--	--	--	--	--	--	--	--	--
MW 3	08/12/93	335 13	9.11	326.02	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	PACE
MW 3	11/11/93	335 13	9.78	325.35	--	--	--	--	--	--	--	--	--	--
MW 3	02/11/94	335 13	8.60	326.53	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	PACE
MW 3	05/17/94	335 13	8.34	326.79	--	--	--	--	--	--	--	--	--	--
MW 3	06/20/94	335 13	7.45	327.68	--	--	--	--	--	--	--	--	--	--
MW 3	10/04/94	335 13	9.81	325.32	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	7.5	PACE
AW 4	11/15/90	333 41	8.61	324.90	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	ANA
AW 4	12/11/90	333 41	9.19	324.22	--	--	--	--	--	--	--	--	--	--
AW 4	02/15/91	333 41	8.32	325.09	ND<50	--	ND<0.3	ND<0.3	ND<0.3	ND<0.3	--	--	--	SUP
AW 4	05/14/91	333 41	6.97	326.44	ND<50	--	ND<0.3	ND<0.3	ND<0.3	ND<0.3	--	--	--	SUP
AW 4	08/23/91	333 41	8.59	324.82	ND<50	--	ND<0.3	ND<0.3	ND<0.3	ND<0.3	--	--	--	ANA
AW 4	11/13/91	333 41	8.57	324.84	ND<30	--	ND<0.3	ND<0.3	ND<0.3	ND<0.3	--	--	--	SEQ
AW 4	02/25/92	333 41	6.28	327.15	ND<30	--	ND<0.3	ND<0.3	ND<0.3	ND<0.3	--	--	--	SEQ
AW 4	04/15/92	333 41	7.05	326.36	--	--	--	--	--	--	--	--	--	--
AW 4	06/03/92	333 41	7.41	326.00	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	ANA
AW 4	08/12/92	333 41	8.45	324.96	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	ANA
AW 4	11/10/92	333 41	9.10	324.31	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	ANA
AW 4 (d)	02/10/93	333 41	--	--	--	--	--	--	--	--	--	--	--	--
AW 4 (d)	05/21/93	333 41	--	--	--	--	--	--	--	--	--	--	--	--
AW-4 (d)	08/12/93	333 41	--	--	--	--	--	--	--	--	--	--	--	--
AW 4	11/11/93	333 41	8.00	325.41	--	--	--	--	--	--	--	--	--	--
AW 4	11/15/93	--	--	--	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	PACE
AW 4	02/11/94	333 41	6.84	326.57	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	PACE
AW 4	05/17/94	333 41	6.54	326.87	--	--	--	--	--	--	--	--	--	--
AW 4	06/20/94	333 41	5.70	327.71	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	2.0	PACE
AW 4	10/04/94	333 41	8.04	325.37	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	6.1	PACE

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
 BP OIL COMPANY SERVICE STATION NO. 11116
 7197 VILLAGE PARKWAY, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-017

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Foot)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ppb)	TPH-D (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	TOG (ppb)	HVOC (ppb)	DO (ppm)	LAB
AW 5	11/15/90	334.81	9.67	325.14	ND<50	--	1.3	ND<0.5	ND<0.5	1.0	--	--	--	ANA
AW 5	12/11/90	334.81	9.44	325.37	--	--	--	--	--	--	--	--	--	--
AW 5	02/15/91	334.81	10.00	324.81	ND<50	--	ND<0.3	ND<0.3	ND<0.3	ND<0.3	--	--	--	SUP
AW 5	05/14/91	334.81	8.64	326.17	ND<50	--	ND<0.3	ND<0.3	ND<0.3	ND<0.3	--	--	--	SUP
AW 5	08/23/91	334.81	9.58	325.23	ND<50	--	ND<0.3	ND<0.3	ND<0.3	ND<0.3	--	--	--	ANA
AW 5	11/13/91	334.81	9.80	325.01	100	--	ND<0.3	ND<0.3	ND<0.3	ND<0.3	--	--	--	SEQ
AW 5	02/25/92	334.81	7.69	326.92	ND<30	--	ND<0.3	ND<0.3	ND<0.3	ND<0.3	--	--	--	SEQ
AW 5	04/15/92	334.81	8.54	326.27	--	--	--	--	--	--	--	--	--	--
AW 5	06/03/92	334.81	8.97	325.84	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	ANA
AW 5	08/12/92	334.81	9.73	325.08	61	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	ANA
AW 5	11/10/92	334.81	10.27	324.54	99	--	ND<0.5	ND<0.5	ND<0.5	0.8	--	--	--	ANA
QC-1 (w)	11/10/92	--	--	86	--	--	ND<0.5	ND<0.5	ND<0.5	0.7	--	--	--	ANA
AW 5	02/10/93	334.81	7.29	327.52	82	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	PACE
AW 5	05/21/93	334.81	7.77	327.04	--	--	--	--	--	--	--	--	--	--
AW 5	08/12/93	334.81	8.87	325.94	130	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	PACE
AW 5	11/11/93	334.81	9.13	325.68	--	--	--	--	--	--	--	--	--	--
AW 5	11/12/93	--	--	--	180	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	PACE
AW 5	02/11/94	334.81	8.20	326.61	210	--	16	ND<0.5	ND<0.5	ND<0.5	--	--	--	PACE
AW 5	05/17/94	334.81	8.16	326.65	--	--	--	--	--	--	--	--	--	--
AW 5	06/20/94	334.81	8.26	326.55	1300	--	0.9	ND<0.5	0.5	2.2	--	--	2.5	PACE
AW 5	10/04/94	334.81	8.70	326.11	670	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	6.0	PACE
AW 6	11/15/90	334.90	9.58	325.32	230	--	25	ND<0.5	ND<0.5	0.8	--	--	--	ANA
AW 6	12/11/90	334.90	9.58	325.32	--	--	--	--	--	--	--	--	--	--
AW 6	02/15/91	334.90	9.66	325.24	ND<50	--	ND<0.3	ND<0.3	ND<0.3	ND<0.3	--	--	--	SUP
AW 6	05/14/91	334.90	8.38	326.52	90	--	2	ND<0.3	ND<0.3	ND<0.3	--	--	--	SUP
AW 6	08/23/91	334.90	9.61	325.29	57	--	ND<0.5	0.7	1.3	4.6	--	--	--	ANA
AW 6	11/13/91	334.90	9.58	325.32	200	--	ND<0.3	ND<0.3	ND<0.3	0.94	--	--	--	SEQ
AW 6	02/25/92	334.90	8.00	328.90	19000	--	8000	4700	600	2400	--	--	--	SEQ
AW 6	03/05/92	334.90	7.98	328.92	14000	--	5200	2500	550	2200	--	--	--	SEQ
AW 6	01/15/92	334.90	8.33	326.57	1100	--	400	ND<3.0	30	ND<3.0	--	--	--	SEQ
AW 6	06/03/92	334.90	8.91	325.99	77	--	4.4	ND<0.5	ND<0.5	ND<0.5	--	--	--	ANA
AW 6	08/12/92	334.90	9.81	325.29	80	--	4.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	ANA
AW 6	11/10/92	334.90	10.10	324.80	450	--	120	2.1	4.5	9.7	--	--	--	ANA
AW 6	02/10/93	334.90	7.13	327.77	14000	--	610	17	15	720	--	--	--	PACE
QC-1 (w)	02/10/93	--	--	--	12000	--	520	15	13	610	--	--	--	PACE
AW 6	05/21/93	334.90	7.64	327.26	7900	--	900	ND<12	20	ND<12	--	--	--	PACE
QC-1 (w)	05/21/93	--	--	--	7500	--	620	ND<10	13	ND<10	--	--	--	PACE
AW 6	08/12/93	334.90	8.64	326.26	28000	--	450	14	250	48	--	--	--	PACE
QC-1 (w)	08/12/93	--	--	--	27000	--	510	43	270	42	--	--	--	PACE
AW 6	11/11/93	334.90	8.67	326.23	--	--	--	--	--	--	--	--	--	--
AW 6	11/12/93	--	--	--	62000	--	4600	420	310	1100	--	--	--	PACE
QC-1 (w)	11/12/93	--	--	--	63000	--	4100	360	290	1000	--	--	--	PACE
AW 6	02/11/94	334.90	8.04	326.86	140000	--	21000	25000	1100	13000	--	--	--	PACE
QC-1 (w)	02/11/94	--	--	--	110000	--	17000	21000	770	10000	--	--	--	PACE
AW 6	05/17/94	334.90	7.68	327.22	--	--	--	--	--	--	--	--	--	--
AW 6	06/20/94	334.90	7.82	327.08	42000	--	2700	1300	1900	9100	--	--	2.1	PACE
QC-1 (w)	06/20/94	--	--	--	41000	--	2800	1400	1900	8900	--	--	--	PACE
AW 6	10/04/94	334.90	9.33	325.57	14000	--	2100	77	1000	760	--	--	6.1	PACE
QC-1 (w)	10/04/94	--	--	--	14000	--	2100	77	1100	790	--	--	--	PACE

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
 BP OIL COMPANY SERVICE STATION NO. 11116
 7197 VILLAGE PARKWAY, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-017

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ppb)	TPH-D (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	TOG (ppb)	HVOC (ppb)	DO (ppm)	LAB
QC 2 (f)	11/10/92	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	ANA
QC 2 (f)	02/10/93	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
QC 2 (f)	05/21/93	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
QC 2 (f)	08/12/93	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
QC 2 (f)	11/12/93	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
QC 2 (f)	02/11/94	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
QC 2 (f)	06/20/94	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
QC 2 (f)	10/04/94	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE

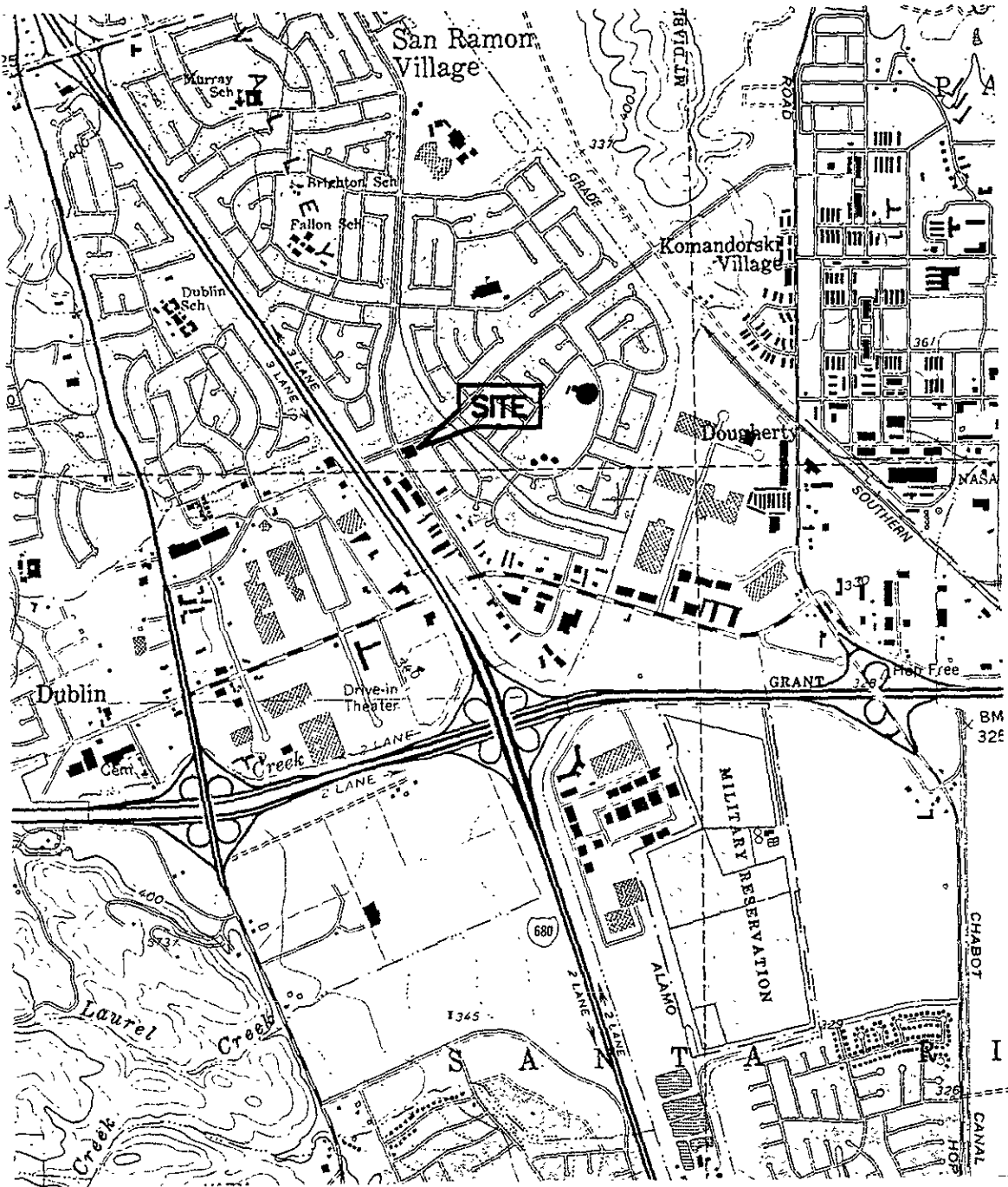
ABBREVIATIONS

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
 ppb Parts per billion
 ppm Parts per million
 ND Not detected above reported detection limit
 --- Not applicable/analyzed/measured
 ANA Anametrix, Inc
 SUP Suponor Analytical Laboratory
 SEQ Sequora Analytical Laboratory
 PACE Pace, Inc

NOTES:

(a) Top of casing elevations surveyed in reference to the City of Dublin monument at the intersection of Village Parkway and Amador Valley Boulevard, with an elevation of 335.92 feet above mean sea level.
 (b) Groundwater elevations in feet above mean sea level.
 (c) Methylene chloride.
 (d) Well buried
 (e) Blind duplicate.
 (f) Travel blank.

L:\0010\017\017_11.W02



SOURCE:
 USGS MAP, DUBLIN QUADRANGLE,
 CALIFORNIA, 7.5 MINUTE SERIES '96'
 PHOTO REVS'D 1980

FIGURE 1

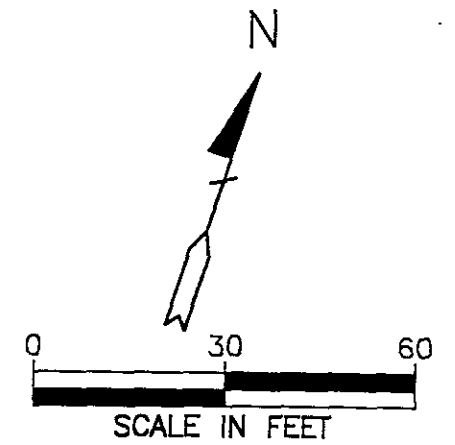
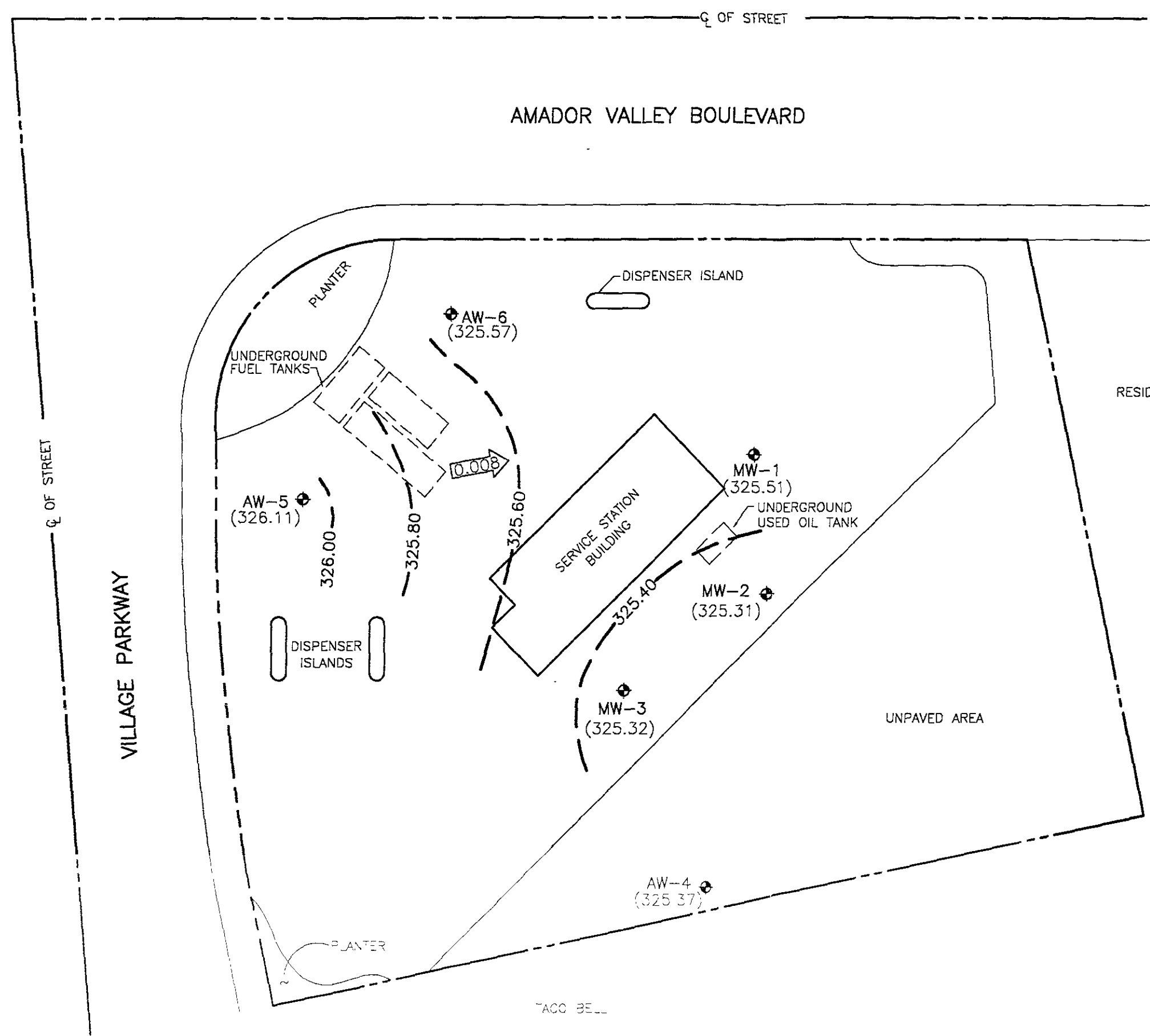
SITE VICINITY MAP

BP OIL SERVICE STATION NO. 11116
 7197 VILLAGE PARKWAY
 DUBLIN, CALIFORNIA

PROJECT NO. 10-017



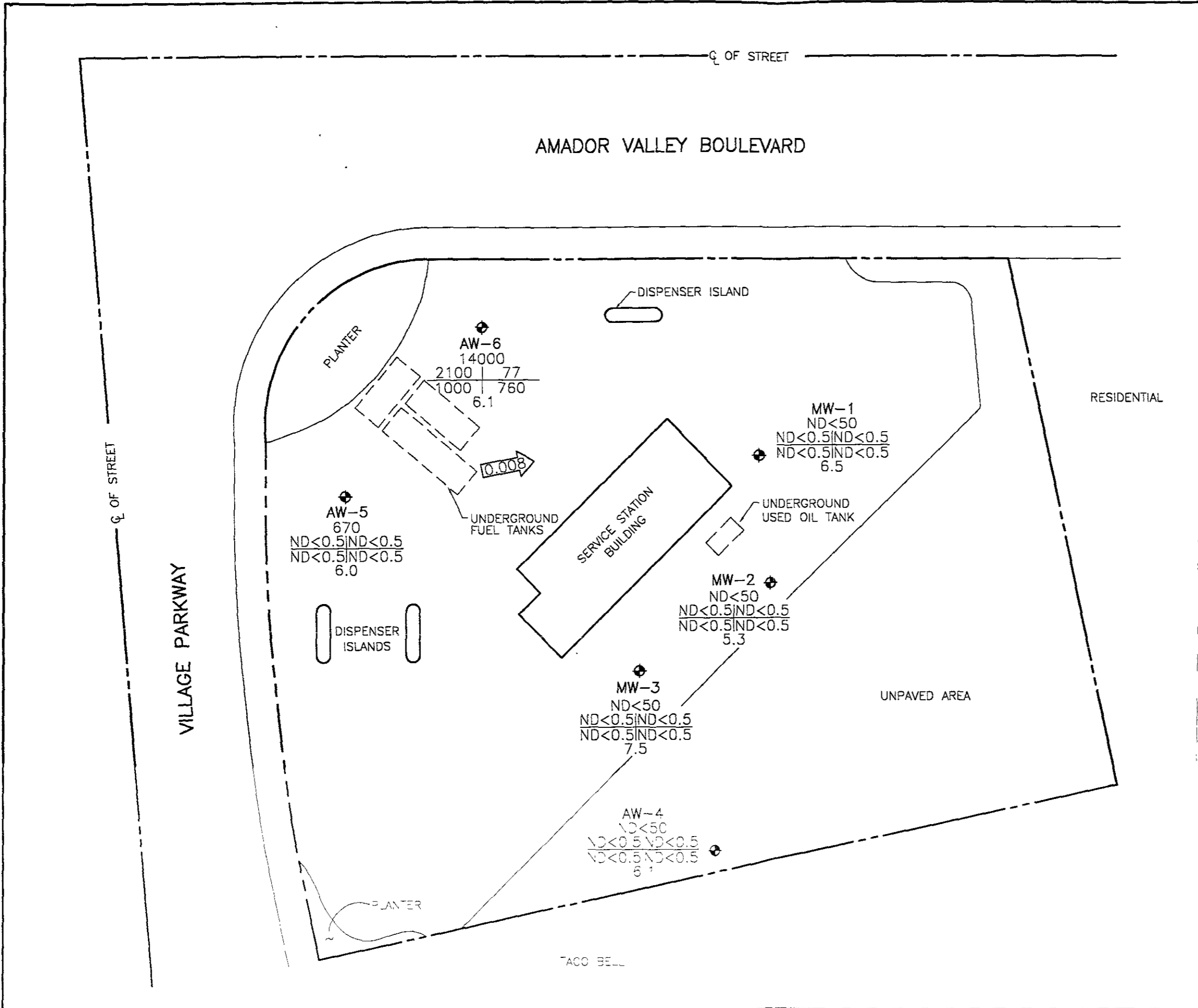
ALISTO ENGINEERING GROUP
 WALNUT CREEK, CALIFORNIA



- LEGEND**
- ◆ GROUNDWATER MONITORING WELL
 - (325.31) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
 - 325.40 - GROUNDWATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL (CONTOUR INTERVAL - 0.20 FOOT)
 - ← 0.008 → CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE IN FOOT PER FOOT

FIGURE 2
POTENTIOMETRIC GROUNDWATER ELEVATION CONTOUR MAP
 OCTOBER 4, 1994
 BP OIL SERVICE STATION NO. 11116
 7197 VILLAGE PARKWAY
 DUBLIN, CALIFORNIA
 PROJECT NO. 10-017

DATE PLOTTED: 11/20/94



LEGEND

- ◆ GROUNDWATER MONITORING WELL
- TPH-G CONCENTRATION OF CONSTITUENTS IN PARTS PER BILLION, EXCEPT DISSOLVED OXYGEN, WHICH IS IN PARTS PER MILLION
- B | T
- E | X
- DO
- 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
- ← 0.008 CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE IN FOOT PER FOOT

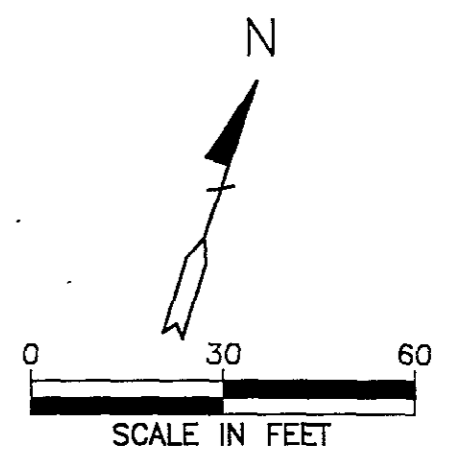


FIGURE 3
CONCENTRATIONS OF PETROLEUM HYDROCARBONS IN GROUNDWATER
OCTOBER 4, 1994
 BP OIL SERVICE STATION NO. 11116
 7197 VILLAGE PARKWAY
 DUBLIN, CALIFORNIA
 PROJECT NO. 10-017

TOTAL PUMP 11-28 94 100W 1-30

APPENDIX A
WATER SAMPLING FIELD SURVEY FORMS

ALISTO

Field Report / Sampling Data Sheet

ENGINEERING
GROUP

Groundwater Sampling

Date: 10/4/94 Project No. 10-017-03-002
Day: M (T) W Th F Facility No. 1116

1777 OAKLAND BLVD, STE 200 Barometric pres. 758
WALNUT CREEK CA 94596 (510) 295-1650 FAX 295-1823

Temp. 72.3 Address 7197 Village Parkway, Dublin, CA
SAMPLER: _____

Well ID	SAMPLE #	WATER	time	Well ID	SAMPLE #	WATER/	time	Well ID	SAMPLE	WATER / time
AW4	S-1	8.04	1101	AW6	S-6	9.33	1115			
MW3	S-2	9.81	1104							
MW2	S-3	9.27	1108							
MW1	S-4	9.66	1111							
AW5	S-5	8.70	1118							

FIELD INSTRUMENT CALIBRATION DATA

pH METER _____ 4.00 7.00 10.00 _____ TIME 1145 TEMPERATURE COMPENSATED N
TURBIDI METER _____ 5.0 NTU STANDARD _____ OTHER _____ 7cm DO meter O reading 1.0 @ 1200
CONDUCTIVITY METER _____ 10,000 _____ OTHER _____

Well ID	Depth to Water	Diam	Cap/Lock	Depth to prod.	Iridescence	Gal.	Time	Temp *F	pH	E.C.	D.O.	
AW4	8.04	4"	OK	Φ	Y (N)	15	1215	71.6	6.95	6.50	5.4	<input type="checkbox"/> EPA 601
Total Depth - Water Level =						30	1220	69.3	7.27	6.46		<input checked="" type="checkbox"/> TPH-G/BTEX <u>HCL</u>
32.24 - 8.04 = 24.20 x .65 = 15.73 x 3 = 47.19						47.25	1228	68.7	7.48	5.89	6.1	<input type="checkbox"/> TPH Diesel
Purge Method: <input checked="" type="checkbox"/> Surface Pump <input type="checkbox"/> Disp. Tube <input type="checkbox"/> Winch <input type="checkbox"/> Disp. Bailor(s) <input type="checkbox"/> OSys Port												<input type="checkbox"/> TOG 5520
Comments:												Time/Sample 1232/S-1
MW3	9.81	2"	replw	Φ	Y (N)	3	1250	71.2	7.02	6.33	6.3	<input type="checkbox"/> EPA 601
Total Depth - Water Level =						6	1254	71.3	7.27	6.41		<input checked="" type="checkbox"/> TPH-G/BTEX <u>HCL</u>
25.44 - 9.81 = 15.63 x .16 = 2.50 x 3 = 7.5						7.75	1259	71.3	7.59	6.42	7.5	<input type="checkbox"/> TPH Diesel
Purge Method: <input checked="" type="checkbox"/> Surface Pump <input type="checkbox"/> Disp. Tube <input type="checkbox"/> Winch <input type="checkbox"/> Disp. Bailor(s) <input type="checkbox"/> OSys Port												<input type="checkbox"/> TOG 5520
Comments:												Time/Sample 1302/S-2
MW2	9.27	2"	replw	Φ	Y (N)	3	1309	70.9	7.17	5.95	6.2	<input type="checkbox"/> EPA 601
Total Depth - Water Level =						6	1313	69.6	7.11	5.88		<input checked="" type="checkbox"/> TPH-G/BTEX <u>HCL</u>
25.70 - 9.27 = 16.43 x .16 = 2.63 x 3 = 7.89						8	1316	69.7	7.14	5.89	5.3	<input type="checkbox"/> TPH Diesel
Purge Method: <input checked="" type="checkbox"/> Surface Pump <input type="checkbox"/> Disp. Tube <input type="checkbox"/> Winch <input type="checkbox"/> Disp. Bailor(s) <input type="checkbox"/> OSys Port												<input type="checkbox"/> TOG 5520
Comments:												Time/Sample 5-3/1318

ALISTO

Field Report / Sampling Data Sheet

ENGINEERING GROUP

1777 OAKLAND BLVD, STE 200
WALNUT CREEK CA 94596 (510) 295-1650 FAX 295-1823

Groundwater Sampling

Date: 10/4/94 Project No. 10-017-03-002
Day: Tue Station No. 1116
Weather: overcast Address 7197 Village Parkway, Dublin CA
SAMPLER: DC

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Thickness	Gal.	Time	Temp *F	pH	E.C.	D.O.	
<u>AW1</u>	<u>9.66</u>	<u>2"</u>	<u>refuse</u>	<u>Ø</u>	<u>Ø</u>	<u>3</u>	<u>1337</u>	<u>72.2</u>	<u>7.55</u>	<u>5.92</u>	<u>7.5</u>	<input type="checkbox"/> EPA 601
Total Depth - Water Level = <u>25.90 - 9.66 = 16.24</u> x Well Vol. Factor = <u>.16</u> = <u>2.60</u> x #vol. to Purge = <u>3</u> = <u>7.80</u> PurgeVol.						<u>6</u>	<u>1342</u>	<u>70.7</u>	<u>7.22</u>	<u>5.77</u>		<input checked="" type="checkbox"/> TPH-G/BTEX <u>HCL</u>
Purge Method. <input checked="" type="checkbox"/> Surface Pump <input type="checkbox"/> Disp Tube <input type="checkbox"/> Winch <input type="checkbox"/> Disp. Bailor(s) <input type="checkbox"/> OSys Port						<u>8</u>	<u>1346</u>	<u>71.0</u>	<u>7.23</u>	<u>5.78</u>	<u>6.5</u>	<input type="checkbox"/> TPH Diesel
Comments:												<input type="checkbox"/> TOG 5520
												Time Sampled
												<u>1350 / S-4</u>

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Thickness	Gal.	Time	Temp *F	pH	E.C.	D.O.	
<u>AW5</u>	<u>8.70</u>	<u>4"</u>	<u>refuse</u>	<u>Ø</u>	<u>Ø</u>	<u>15</u>	<u>1402</u>	<u>71.9</u>	<u>7.50</u>	<u>2.36</u>	<u>6.0</u>	<input type="checkbox"/> EPA 601
Total Depth - Water Level = <u>32.92 - 8.70 = 24.22</u> x Well Vol. Factor = <u>.65</u> = <u>15.74</u> x #vol. to Purge = <u>3</u> = <u>47.23</u> PurgeVol.						<u>30</u>	<u>1408</u>	<u>70.4</u>	<u>8.20</u>	<u>2.43</u>		<input checked="" type="checkbox"/> TPH-G/BTEX <u>HCL</u>
Purge Method. <input checked="" type="checkbox"/> Surface Pump <input type="checkbox"/> Disp Tube <input type="checkbox"/> Winch <input type="checkbox"/> Disp. Bailor(s) <input type="checkbox"/> OSys Port						<u>42.30</u>	<u>dry</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<input type="checkbox"/> TPH Diesel
Comments: <u>Dry @ 33 galls</u>												<input type="checkbox"/> TOG 5520
												Time Sampled
												<u>1420 / S-5</u>

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Thickness	Gal.	Time	Temp *F	pH	E.C.	D.O.	
<u>AW6</u>	<u>9.33</u>	<u>4"</u>	<u>OK</u>	<u>Ø</u>	<u>Ø</u>	<u>5</u>	<u>1430</u>	<u>72.8</u>	<u>7.44</u>	<u>1.35</u>	<u>6.1</u>	<input type="checkbox"/> EPA 601
Total Depth - Water Level = <u>16.51 - 9.33 = 7.18</u> x Well Vol. Factor = <u>.65</u> = <u>4.67</u> x #vol. to Purge = <u>3</u> = <u>14.00</u> PurgeVol.						<u>10</u>	<u>1434</u>	<u>71.2</u>	<u>7.33</u>	<u>1.35</u>		<input checked="" type="checkbox"/> TPH-G/BTEX <u>HCL</u>
Purge Method. <input type="checkbox"/> Surface Pump <input type="checkbox"/> Disp Tube <input type="checkbox"/> Winch <input type="checkbox"/> Disp. Bailor(s) <input type="checkbox"/> OSys Port						<u>14.25</u>	<u>1438</u>	<u>70.8</u>	<u>7.27</u>	<u>1.36</u>	<u>6.1</u>	<input type="checkbox"/> TPH Diesel
Comments: <u>QC-1 from this well (S-7)</u>												<input type="checkbox"/> TOG 5520
												Time Sampled
												<u>1442 / S-6</u>

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Thickness	Gal.	Time	Temp *F	pH	E.C.	D.O.	
												<input type="checkbox"/> EPA 601
Total Depth - Water Level =												<input type="checkbox"/> TPH-G/BTEX
Purge Method. <input type="checkbox"/> Surface Pump <input type="checkbox"/> Disp Tube <input type="checkbox"/> Winch <input type="checkbox"/> Disp. Bailor(s) <input type="checkbox"/> OSys Port												<input type="checkbox"/> TPH Diesel
Comments:												<input type="checkbox"/> TOG 5520
												Time Sampled

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Thickness	Gal.	Time	Temp *F	pH	E.C.	D.O.	
												<input type="checkbox"/> EPA 601
Total Depth - Water Level =												<input type="checkbox"/> TPH-G/BTEX
Purge Method. <input type="checkbox"/> Surface Pump <input type="checkbox"/> Disp Tube <input type="checkbox"/> Winch <input type="checkbox"/> Disp. Bailor(s) <input type="checkbox"/> OSys Port												<input type="checkbox"/> TPH Diesel
Comments:												<input type="checkbox"/> TOG 5520
												Time Sampled

APPENDIX B

LABORATORY REPORT AND CHAIN OF CUSTODY RECORD



REPORT OF LABORATORY ANALYSIS

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

October 17, 1994
PACE Project Number: 441006517

Attn: Mr. Bill Howell

Client Reference: BP Site #11116/10-017-03-002

PACE Sample Number:
Date Collected:
Date Received:

70 0411920
10/04/94
10/06/94
S-1

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
------------------	--------------	------------	----------------------

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):

Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	10/13/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	10/13/94
Benzene	ug/L	0.5	ND	10/13/94
Toluene	ug/L	0.5	ND	10/13/94
Ethylbenzene	ug/L	0.5	ND	10/13/94
Xylenes, Total	ug/L	0.5	ND	10/13/94

Mr. Bill Howell
 Page 2

October 17, 1994
 PACE Project Number: 441006517

Client Reference: BP Site #11116/10-017-03-002

PACE Sample Number: 70 0411939
 Date Collected: 10/04/94
 Date Received: 10/06/94
 Client Sample ID: S-2

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
------------------	--------------	------------	----------------------

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):			-	10/12/94
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	10/12/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	10/12/94
Benzene	ug/L	0.5	ND	10/12/94
Toluene	ug/L	0.5	ND	10/12/94
Ethylbenzene	ug/L	0.5	ND	10/12/94
Xylenes, Total	ug/L	0.5	ND	10/12/94

Mr. Bill Howell
 Page 3

October 17, 1994
 PACE Project Number: 441006517

Client Reference: BP Site #11116/10-017-03-002

PACE Sample Number: 70 0411955
 Date Collected: 10/04/94
 Date Received: 10/06/94
 Client Sample ID: S-3

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
------------------	--------------	------------	----------------------

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS			
TOTAL FUEL HYDROCARBONS, (LIGHT):			
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			
Benzene	ug/L	0.5	ND
Toluene	ug/L	0.5	ND
Ethylbenzene	ug/L	0.5	ND
Xylenes, Total	ug/L	0.5	ND

Mr. Bill Howell
 Page 4

October 17, 1994
 PACE Project Number: 441006517

Client Reference: BP Site #11116/10-017-03-002

PACE Sample Number: 70 0411963
 Date Collected: 10/04/94
 Date Received: 10/06/94
 Client Sample ID: S-4

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
------------------	--------------	------------	----------------------

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):			-	10/12/94
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	10/12/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	10/12/94
Benzene	ug/L	0.5	ND	10/12/94
Toluene	ug/L	0.5	ND	10/12/94
Ethylbenzene	ug/L	0.5	ND	10/12/94
Xylenes, Total	ug/L	0.5	ND	10/12/94

Mr. Bill Howell
 Page 5

October 17, 1994
 PACE Project Number: 441006517

Client Reference: BP Site #11116/10-017-03-002

PACE Sample Number: 70 0411980
 Date Collected: 10/04/94
 Date Received: 10/06/94
 Client Sample ID: S-5

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
------------------	--------------	------------	----------------------

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS			
TOTAL FUEL HYDROCARBONS, (LIGHT):			10/12/94
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	670 10/12/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			10/12/94
Benzene	ug/L	0.5	ND 10/12/94
Toluene	ug/L	0.5	ND 10/12/94
Ethylbenzene	ug/L	0.5	ND 10/12/94
Xylenes, Total	ug/L	0.5	ND 10/12/94

REPORT OF LABORATORY ANALYSIS

Mr. Bill Howell
 Page 6

October 17, 1994
 PACE Project Number: 441006517

Client Reference: BP Site #11116/10-017-03-002

PACE Sample Number: 70 0411998
 Date Collected: 10/04/94
 Date Received: 10/06/94
 Client Sample ID: S-6

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
------------------	--------------	------------	----------------------

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):			-	10/12/94
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	250	14000	10/12/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	10/12/94
Benzene	ug/L	2.5	2100	10/12/94
Toluene	ug/L	2.5	77	10/12/94
Ethylbenzene	ug/L	2.5	1000	10/12/94
Xylenes, Total	ug/L	2.5	760	10/12/94

REPORT OF LABORATORY ANALYSIS

Mr. Bill Howell
 Page 7

October 17, 1994
 PACE Project Number: 441006517

Client Reference: BP Site #11116/10-017-03-002

PACE Sample Number: 70 0412080
 Date Collected: 10/04/94
 Date Received: 10/06/94
 Client Sample ID: S-7

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
------------------	--------------	------------	----------------------

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS			
TOTAL FUEL HYDROCARBONS, (LIGHT):			
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	250	14000
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			
Benzene	ug/L	2.5	2100
Toluene	ug/L	2.5	77
Ethylbenzene	ug/L	2.5	1100
Xylenes, Total	ug/L	2.5	790

REPORT OF LABORATORY ANALYSIS

Mr. Bill Howell
Page 8

October 17, 1994
PACE Project Number: 441006517

Client Reference: BP Site #11116/10-017-03-002

PACE Sample Number: 70 0412102
Date Collected: 10/04/94
Date Received: 10/06/94
Client Sample ID: S-8

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
------------------	--------------	------------	----------------------

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):			-	10/13/94
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	10/13/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	10/13/94
Benzene	ug/L	0.5	ND	10/13/94
Toluene	ug/L	0.5	ND	10/13/94
Ethylbenzene	ug/L	0.5	ND	10/13/94
Xylenes, Total	ug/L	0.5	ND	10/13/94

These data have been reviewed and are approved for release.


Darrell C. Cain
Regional Director

Mr. Bill Howell
Page 9

FOOTNOTES
for pages 1 through 8

October 17, 1994
PACE Project Number: 441006517

Client Reference: BP Site #11116/10-017-03-002

MDL Method Detection Limit
ND Not detected at or above the MDL.

Mr. Bill Howell
 Page 10

QUALITY CONTROL DATA

October 17, 1994
 PACE Project Number: 441006517

Client Reference: BP Site #11116/10-017-03-002

PURGEABLE FUELS AND AROMATICS

Batch: 70 35025

Samples: 70 0411939, 70 0411955, 70 0411963, 70 0411980, 70 0411998
 70 0412080

METHOD BLANK:

Parameter	Units	MDL	Method Blank
TOTAL FUEL HYDROCARBONS, (LIGHT):			-
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND
PURGEABLE AROMATICS (BTXE BY EPA 8020M)			-
Benzene	ug/L	0.5	ND
Toluene	ug/L	0.5	ND
Ethylbenzene	ug/L	0.5	ND
Xylenes, Total	ug/L	0.5	ND

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	700408288	Spike	Spike Recv	Spike Dupl Recv	RPD
Benzene	ug/L	0.5	ND	100	105%	99%	6%
Toluene	ug/L	0.5	ND	100	101%	95%	6%
Ethylbenzene	ug/L	0.5	ND	100	98%	92%	6%
Xylenes, Total	ug/L	0.5	ND	300	97%	90%	7%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Benzene	ug/L	0.5	100	94%	97%	3%
Toluene	ug/L	0.5	100	94%	95%	1%
Ethylbenzene	ug/L	0.5	100	93%	92%	1%
Xylenes, Total	ug/L	0.5	300	94%	93%	1%

REPORT OF LABORATORY ANALYSIS

Mr. Bill Howell
 Page 11

QUALITY CONTROL DATA

October 17, 1994
 PACE Project Number: 441006517

Client Reference: BP Site #11116/10-017-03-002

PURGEABLE FUELS AND AROMATICS

Batch: 70 35026
 Samples: 70 0411920

METHOD BLANK:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>Method Blank</u>
TOTAL FUEL HYDROCARBONS, (LIGHT):			-
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND
PURGEABLE AROMATICS (BTXE BY EPA 8020M)			-
Benzene	ug/L	0.5	ND
Toluene	ug/L	0.5	ND
Ethylbenzene	ug/L	0.5	ND
Xylenes, Total	ug/L	0.5	ND

SPIKE AND SPIKE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	700411920 <u>S-1</u>	<u>Spike</u>	<u>Spike Recv</u>	<u>Spike Dupl Recv</u>	<u>RPD</u>
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	1000	80%	82%	2%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>Reference Value</u>	<u>Recv</u>	<u>Dupl Recv</u>	<u>RPD</u>
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	1000	97%	87%	11%

REPORT OF LABORATORY ANALYSIS

Mr. Bill Howell
 Page 12

QUALITY CONTROL DATA

October 17, 1994
 PACE Project Number: 441006517

Client Reference: BP Site #11116/10-017-03-002

PURGEABLE FUELS AND AROMATICS

Batch: 70 35086
 Samples: 70 0412102

METHOD BLANK:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>Method Blank</u>
TOTAL FUEL HYDROCARBONS, (LIGHT):			
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND
PURGEABLE AROMATICS (BTXE BY EPA 8020M)			
Benzene	ug/L	0.5	ND
Toluene	ug/L	0.5	ND
Ethylbenzene	ug/L	0.5	ND
Xylenes, Total	ug/L	0.5	ND

SPIKE AND SPIKE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	700411920 <u>S-1</u>	<u>Spike</u>	<u>Spike Recv</u>	<u>Spike Dupl Recv</u>	<u>RPD</u>
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	1000	80%	82%	2%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>Reference Value</u>	<u>Recv</u>	<u>Dupl Recv</u>	<u>RPD</u>
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	1000	97%	87%	11%

Mr. Bill Howell
Page 13

FOOTNOTES
for pages 10 through 12

October 17, 1994
PACE Project Number: 441006517

Client Reference: BP Site #11116/10-017-03-002

MDL Method Detection Limit
ND Not detected at or above the MDL.
RPD Relative Percent Difference



441006-517

CHAIN OF CUSTODY

No. _____

Page 1 of 1

CONSULTANT'S NAME Alisto Engineering Group	ADDRESS 1777 Oakland Blvd	CITY Walnut Creek	STATE CA	ZIP CODE 94596
BP SITE NUMBER 11116	BP CORNER ADDRESS/CITY Village Parkway Dublin CA	CONSULTANT PROJECT NUMBER 10-017-03-002		
CONSULTANT PROJECT MANAGER Bill Howell	PHONE NUMBER (510) 255 1650	FAX NUMBER (510) 255 1823	CONSULTANT CONTRACT NUMBER 6317853	
BP CONTACT Scott Hooton	BP ADDRESS Renton WA	PHONE NUMBER (415) 883 6100	FAX NO. Novato CA	
LAB CONTACT Pace Inc	LABORATORY ADDRESS Pace	PHONE NUMBER 415 883 2673	FAX NO. & ADDRESS Novato CA	
SAMPLED BY (Please Print Name) DAVID CUSACK	SAMPLED BY (Signature) <i>David Cusack</i>	SHIPMENT DATE	SHIPMENT METHOD Courier	
AIRBILL NUMBER				

24 Hours
 48 Hours
 1 Week
 Standard 2 Weeks

ANALYSIS REQUIRED

SAMPLE DESCRIPTION	COLLECTION DATE	MATRIX SOIL/WATER	CONTAINERS		PRESERVATIVE	HCL TPT+ CAS DPA	COMMENTS
	COLLECTION TIME		NO.	TYPE (VOL.)	LAB SAMPLE #		
S-1	1232	H2O	2	100	41192.0	X	
S-2	1302				41193.9		
S-3	1318				41195.5		
S-4	1350				41196.3		
S-5	1420				41198.0		
S-6	1442				41199.8		
S-7	-				41200.0		
S-8	-				41210.2		

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	ADDITIONAL COMMENTS
<i>David Cusack, Alisto</i>	10/14	1435	<i>E. Kelly, Pace</i>	10/14	1535	
<i>Ed Kelly, Pace</i>	10/14	1550	<i>John P. ...</i>	10/10	15:50	