



BP OIL

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HAZMAT

94 FEB 22 PM 2:33

February 17, 1994

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

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

Dear Ms. Shin:


Attached please find our GROUNDWATER MONITORING AND SAMPLING REPORT DATED FOR JAN. 19, 1993 for the above referenced facility.

We have moved, our new address is:

BP Oil
Environmental Resources Management
295 SW 41st Street, BLG 13, STE N
Renton, WA 98055

If you need an additional information you may contact me at (206) 251-0689.

Respectfully,


Scott T. Hooton
Group Leader

STH:cj ERM11249

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

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

Mr. Robert Merriken, Mobil Oil Corp, 3225 Gallows Road, Fairfax, VA 22037

GROUNDWATER MONITORING AND SAMPLING REPORT

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

Project No. 10-017-02-003

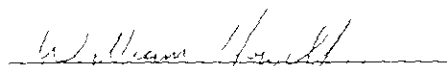
Prepared for:

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

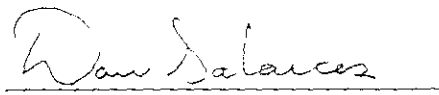
Prepared by:

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

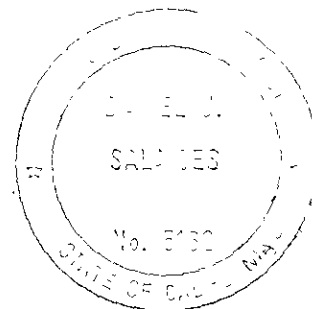
January 19, 1996



**William Howell
Project Manager**



**Dan Salaires
Registered Geologist**



GROUNDWATER MONITORING AND SAMPLING REPORT

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

Project No. 10-017-02-003

January 19, 1994

INTRODUCTION

This report presents the results and findings of the November 11, 12, and 15, 1993 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.

Groundwater monitoring was performed concurrently at monitoring wells installed for the Unocal Corporation service station, 7375 Amador Valley Boulevard; Arco Products Company service station, 7249 Village Parkway; and Shell Oil Company service station, 7194 Amador Valley Boulevard. The results of groundwater monitoring at these sites are presented in Tables 2, 3, and 4.

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 collected for this and previous quarters are summarized in Table 1. The potentiometric surface elevation map 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)	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<5,000	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<5,000	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	7,500	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<5,000	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<5,000	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<5,000	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<5,000	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<5,000	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<5,000	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<5,000	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	325.52	---	---	---	---	---	---	---	---	---
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<5,000	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	60	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<5,000	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	6,000	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<5,000	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<5,000	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<5,000	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<5,000	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<5,000	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<5,000	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	---	---	---	---	---	---	---	---	---

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)	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<5,000	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<5,000	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<5,000	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<5,000	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<5,000	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<5,000	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<5,000	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<5,000	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<5,000	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<5,000	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	---	---	---	---	---	---	---	---	---
AW-4	11/15/90	333.41	8.51	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	6.26	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

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)	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	7.89	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 (e)	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-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	326.90	19000	---	8000	4700	600	2400	---	---	SEQ
AW-6	03/05/92	334.90	7.98	326.92	14000	---	5200	2500	550	2200	---	---	SEQ
AW-6	04/15/92	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	9.61	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 (e)	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 (e)	05/21/93	---	---	---	7500	---	620	ND<10	13	ND<10	---	---	PACE
AW-6	08/12/93	334.90	8.64	326.26	26000	---	450	14	250	48	---	---	PACE
QC-1 (e)	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 (e)	11/12/93	---	---	---	63000	---	4100	360	290	1000	---	---	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)	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

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
 ppb Parts per billion
 ND Not detected above reported detection limit
 --- Not analyzed/available
 ANA Anamatrix, Inc
 SUP Superior Analytical Laboratory
 SEQ Sequoia Analytical laboratory
 PACE Pace, Inc

NOTES:

(a) Top of casing elevations surveyed in reference to the City of Dublin monument at 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.

TABLE 2 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING
 UNOCAL CORPORATION SERVICE STATION
 7375 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-017

WELL ID	DATE OF MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)
MW-1	08/12/92	336.72	11.32	325.40
MW-1	11/10/92	336.72	11.97	324.75
MW-1	02/10/93	336.72	8.63	328.09
MW-1	05/10/93	336.72	9.57	327.15
MW-1	08/12/93	336.72	10.55	326.17
MW-1	11/11/93	336.72	10.17	326.55
MW-2	08/12/92	337.36	11.48	325.88
MW-2	11/10/92	337.36	12.15	325.21
MW-2	02/10/93	337.36	8.81	328.55
MW-2	05/10/93	337.36	9.75	327.61
MW-2	08/12/93	337.36	10.69	326.67
MW-2	11/11/93	337.36	10.51	326.85
MW-3	08/12/92	337.53	11.64	325.89
MW-3	11/10/92	337.53	12.33	325.20
MW-3	02/10/93	337.53	8.95	328.58
MW-3	05/10/93	337.53	9.91	327.62
MW-3	08/12/93	337.53	10.89	326.64
MW-3	11/11/93	337.53	10.64	326.89
MW-4	08/12/92	337.00	11.62	325.38
MW-4	11/10/92	337.00	12.32	324.68
MW-4	02/10/93	337.00	8.94	328.06
MW-4	05/10/93	337.00	9.90	327.10
MW-4	08/12/93	337.00	10.90	326.10
MW-4	11/11/93	337.00	10.48	326.52

NOTES:

- (a) Top of casing elevations surveyed to the nearest 0.01 foot relative to a County of Alameda benchmark with an elevation of 337.40 feet above mean sea level.
- (b) Groundwater elevations in feet above mean sea level.

TABLE 3 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING
SHELL OIL COMPANY SERVICE STATION
7194 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-017

WELL ID	DATE OF MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)
MW-1	08/12/92	334.83	9.15	325.68
MW-1	11/10/92	334.83	10.04	324.79
MW-1	02/10/93	334.83	7.24	327.59
MW-1	05/10/93	334.83	7.78	327.05
MW-1	08/12/93	334.83	8.54	326.29
MW-1	11/11/93	334.83	8.56	326.27
MW-2	08/12/92	336.96	11.58	325.38
MW-2	11/10/92	336.96	12.05	324.91
MW-2	02/10/93	336.96	9.28	327.68
MW-2	05/10/93	336.96	9.65	327.31
MW-2	08/12/93	336.96	10.70	326.26
MW-2	11/11/93	336.96	11.36	325.60
MW-3	08/12/92	336.93	10.94	325.99
MW-3	11/10/92	336.93	11.84	325.09
MW-3	02/10/93	336.93	8.82	328.11
MW-3	05/10/93	336.93	8.88	328.05
MW-3	08/12/93	336.93	10.36	326.57
MW-3	11/11/93	336.93	10.64	326.29
MW-4	08/12/92	337.14	11.36	325.78
MW-4	11/10/92	337.14	12.12	325.02
MW-4	02/10/93	337.14	9.40	327.74
MW-4	05/10/93	337.14	9.54	327.60
MW-4	08/12/93	337.14	10.68	326.46
MW-4	11/11/93	337.14	11.97	325.17
MW-5	08/12/92	334.96	9.40	325.56
MW-5	11/10/92	334.96	9.65	325.31
MW-5	02/10/93	334.96	7.97	326.99
MW-5	05/10/93	334.96	7.76	327.20
MW-5	08/12/93	334.96	8.75	326.21
MW-5	11/11/93	334.96	9.32	325.64
MW-6	08/12/92	335.42	9.72	325.70
MW-6	11/10/92	335.42	10.56	324.86
MW-6	02/10/93	335.42	7.65	327.77
MW-6	05/10/93	335.42	8.10	327.32
MW-6	08/12/93	335.42	9.18	326.24
MW-6	11/11/93	335.42	9.38	326.04
MW-7	08/12/92	333.23	8.65	324.58
MW-7	11/10/92	333.23	8.82	324.41
MW-7	02/10/93	333.23	6.06	327.17
MW-7	05/10/93	333.23	6.65	326.58
MW-7	08/12/93	333.23	6.83	326.40
MW-7	11/11/93	333.23	6.90	326.33
MW-8	08/12/92	335.80	9.82	325.98
MW-8	11/10/92	335.80	10.41	325.39
MW-8	02/10/93	335.80	7.35	328.45
MW-8	05/10/93	335.80	8.00	327.80
MW-8	08/12/93	335.80	9.00	326.80
MW-8	11/11/93	335.80	9.47	326.33

TABLE 3 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING
 SHELL OIL COMPANY SERVICE STATION
 7194 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-017

WELL ID	DATE OF MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)
MW-9	08/12/92	334.57	8.97	325.60
MW-9	11/10/92	334.57	8.97	325.60
MW-9	02/10/93	334.57	7.20	327.37
MW-9	05/10/93	334.57	7.56	327.01
MW-9	08/12/93	334.57	8.25	326.32
MW-9	11/11/93	334.57	10.30	324.27
MW-11	08/12/92	334.20	8.75	325.45
MW-11	11/10/92	334.20	9.47	324.73
MW-11	02/10/93	334.20	6.79	327.41
MW-11	05/10/93	334.20	7.18	327.02
MW-11	08/12/93	334.20	8.10	326.10
MW-11	11/11/93	334.20	8.56	325.64
MW-12	08/12/92	332.53	9.83	322.70
MW-12	11/10/92	332.53	8.32	324.21
MW-12	02/10/93	332.53	6.75	325.78
MW-12 (c)	05/10/93	332.53	—	—
MW-12	08/12/93	332.53	6.23	326.30
MW-12	11/11/93	332.53	7.43	325.10
MW-13	08/12/92	335.64	10.91	324.73
MW-13	11/10/92	335.64	10.69	324.95
MW-13	02/10/93	335.64	7.49	328.15
MW-13	05/10/93	335.64	8.06	327.58
MW-13	08/12/93	335.64	8.73	326.91
MW-13	11/11/93	335.64	9.15	326.49
RW-1 (d)	08/12/92	—	—	—
RW-1 (d)	11/10/92	—	—	—
RW-1 (d)	08/12/93	—	—	—
RW-1 (d)	11/11/93	—	—	—

NOTES:

- (a) Top of casing elevations surveyed to the nearest 0.01 foot above mean sea level.
- (b) Groundwater elevations in feet above mean sea level.
- (c) Well inaccessible due to parked car.
- (d) Data not available.

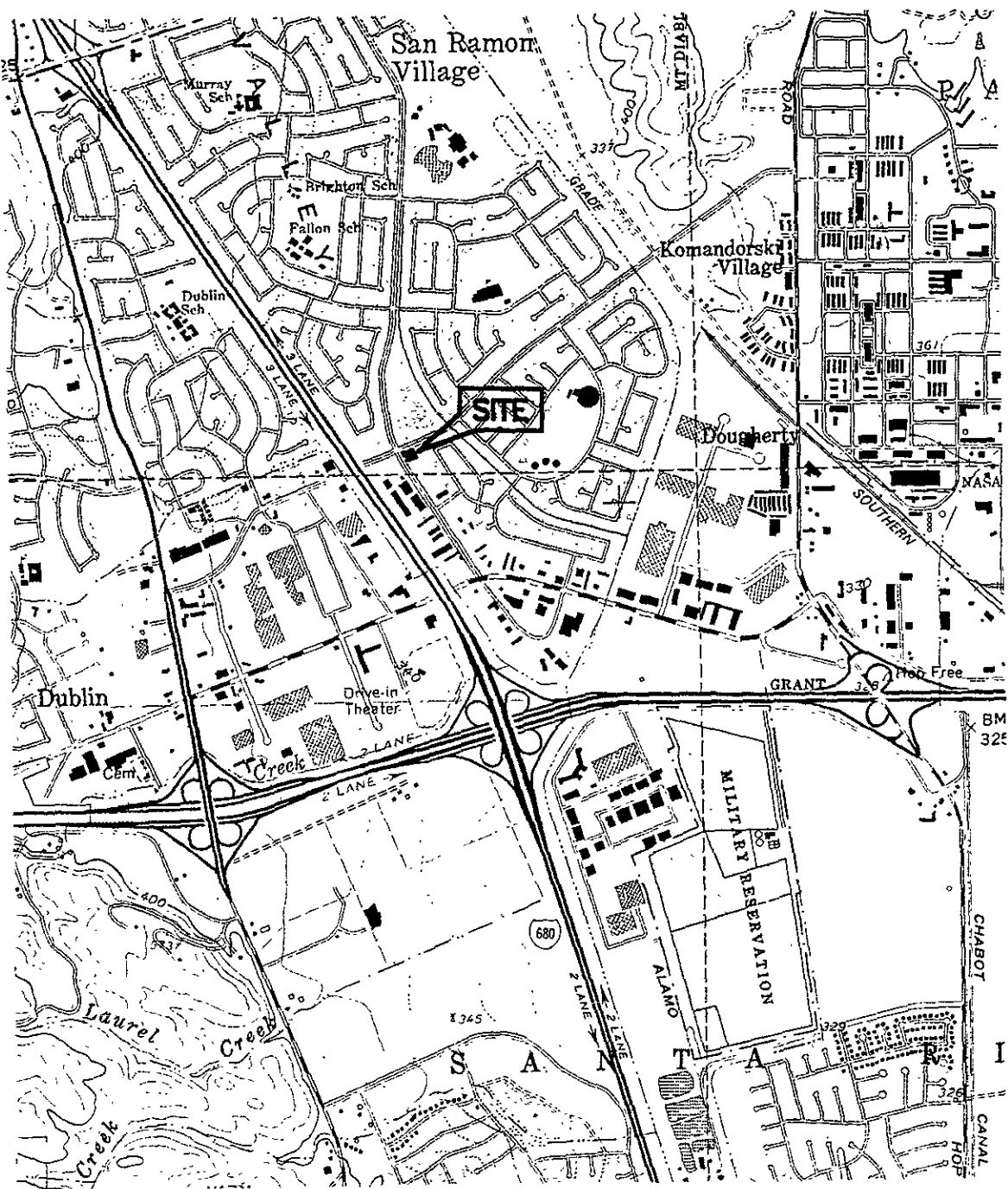
TABLE 4 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING
 ARCO PRODUCTS SERVICE STATION 6041
 7249 VILLAGE PARKWAY, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-017

WELL ID	DATE OF MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)
MW-1	11/10/92	336.56	11.74	324.82
MW-1	02/10/93	336.56	9.66	326.90
MW-1	05/10/93	336.56	9.50	327.06
MW-1 (c)	08/12/93	--	--	--
MW-1	11/11/93	336.56	10.70	325.86
MW-2	11/10/92	334.80	10.12	324.68
MW-2	02/10/93	334.80	7.30	327.50
MW-2	05/10/93	334.80	7.40	327.40
MW-2 (c)	08/12/93	--	--	--
MW-2	11/11/93	334.80	9.02	325.78
MW-3	11/10/92	335.53	10.72	324.81
MW-3	02/10/93	335.53	7.87	327.66
MW-3	05/10/93	335.53	9.91	325.62
MW-3 (c)	08/12/93	--	--	--
MW-3	11/11/93	335.53	9.81	325.72
MW-4	11/10/92	334.22	9.58	324.64
MW-4	02/10/93	334.22	6.80	327.42
MW-4	05/10/93	334.22	9.90	324.32
MW-4 (c)	08/12/93	--	--	--
MW-4	11/11/93	334.22	8.48	325.74
MW-5	11/10/92	335.87	11.02	324.85
MW-5	02/10/93	335.87	8.00	327.87
MW-5	05/10/93	335.87	8.64	327.23
MW-5 (c)	08/12/93	--	--	--
MW-5	11/11/93	335.87	10.09	325.78
MW-6	11/10/92	335.84	11.03	324.81
MW-6	02/10/93	335.84	8.22	327.62
MW-6	05/10/93	335.84	8.85	326.99
MW-6 (c)	08/12/93	--	--	--
MW-6	11/11/93	335.84	10.02	325.82

NOTES.

- (a) Top of casing elevations surveyed to the nearest 0.01 foot above mean sea level.
- (b) Groundwater elevation in feet above mean sea level (MSL)
- (c) Data not available

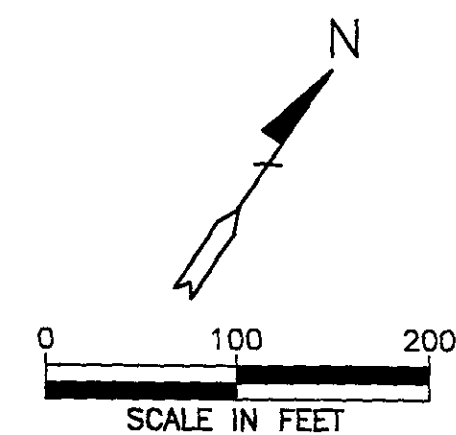
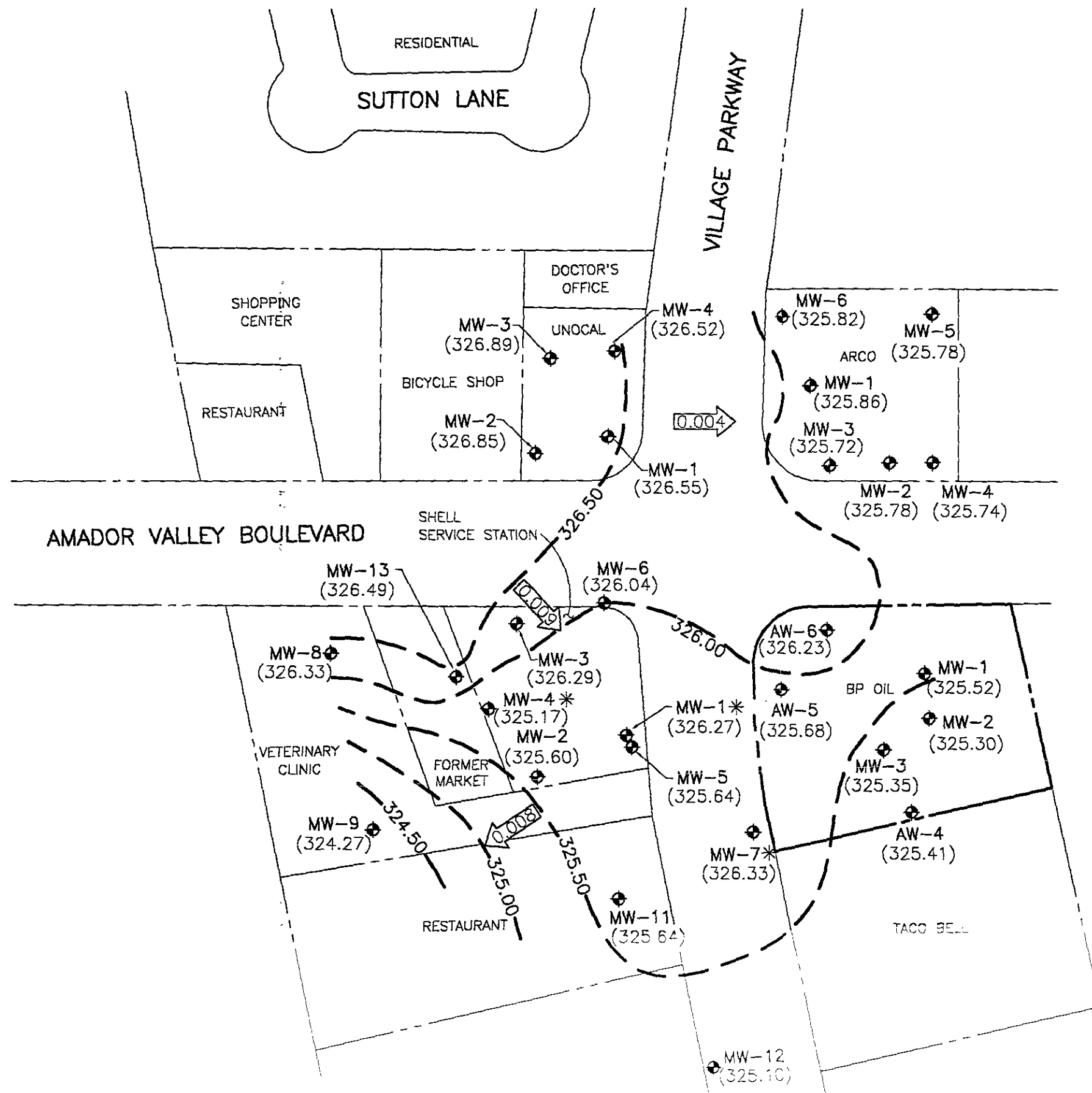


SOURCE:
 USGS MAP, DUBLIN QUADRANGLE,
 CALIFORNIA 7.5 MINUTE SERIES '96'
 PHOTO-REVISED 1980

FIGURE 1
SITE VICINITY MAP
 BP OIL SERVICE STATION NO. 11116
 7197 VILLAGE PARKWAY
 DUBLIN, CALIFORNIA
 PROJECT NO. 10-017



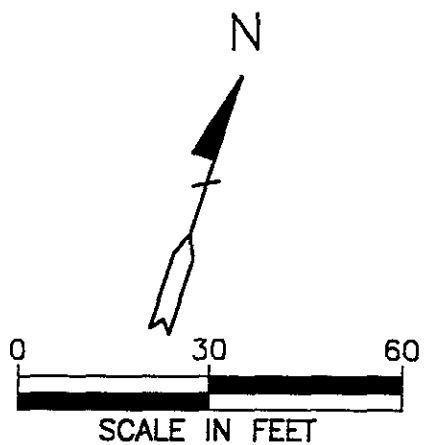
100178 DMC 7 20 93 811 811 1-1



- LEGEND**
- ◆ GROUNDWATER MONITORING WELL
 - (325.52) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
 - 325.50 - GROUNDWATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL (CONTOUR INTERVAL - 0.50 FOOT)
 - ← 0.008 → CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE IN FOOT PER FOOT
 - * ANOMALOUS DATA NOT USED IN PREPARING CONTOURS

FIGURE 2
POTENTIOMETRIC GROUNDWATER ELEVATION CONTOUR MAP
 NOVEMBER 11, 1993
 BP OIL SERVICE STATION NO. 11116
 7197 VILLAGE PARKWAY
 DUBLIN, CALIFORNIA
 PROJECT NO. 10-017

100170-H-DWG 1-17-94 RAW 1-100



LEGEND

- ⊕ GROUNDWATER MONITORING WELL
- TPH-G CONCENTRATION OF CONSTITUENTS IN PARTS PER BILLION
- B | T
- E | X
- TPH-G TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
- B BENZENE
- T TOLUENE
- E ETHYLBENZENE
- X TOTAL XYLENES
- ND NOT DETECTED ABOVE REPORTED DETECTION LIMIT

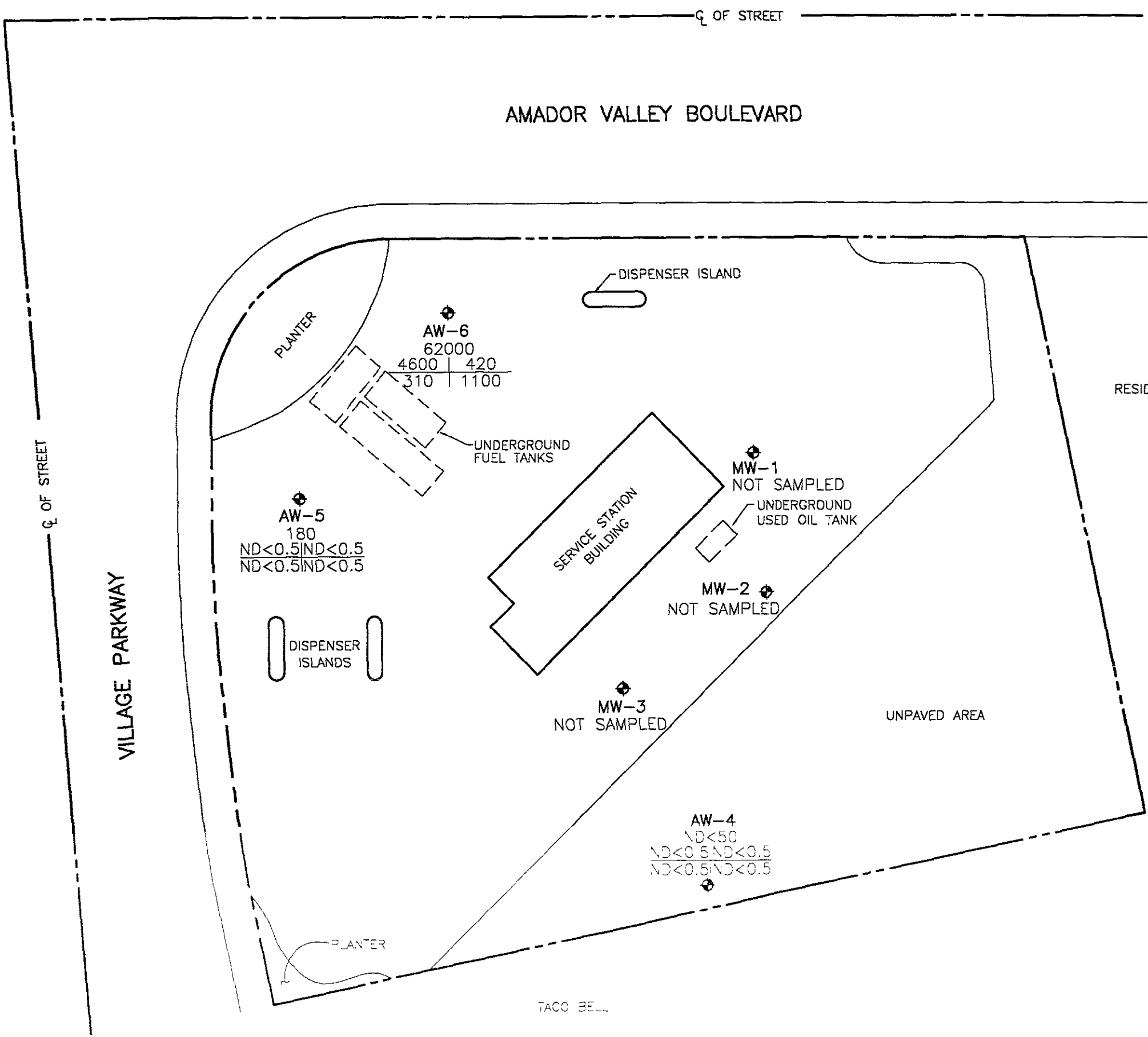


FIGURE 3
CONCENTRATIONS OF PETROLEUM HYDROCARBONS IN GROUNDWATER
NOVEMBER 12 AND 15, 1993
 BP OIL SERVICE STATION NO. 11116
 7197 VILLAGE PARKWAY
 DUBLIN, CALIFORNIA
 PROJECT NO. 10-017

10017E FIGURE 3 TO BE REV 1-90

APPENDIX A

WATER SAMPLING FIELD SURVEY FORMS

ALISTO ENGINEERING GROUP GROUNDWATER MONITORING

Client: BP
 Alisto Project No: 10-017-02-003
 Service Station No: 1116

Date: 11-11-93
 Field Personnel: Tom
 Site Address: VILLAGE PK WY
DUBLIN

FIELD ACTIVITY:

- Groundwater Monitoring
- Groundwater Sampling
- Well Development

QUALITY CONTROL SAMPLES:

- MW-6 QC-1 Sample Duplicate (Well ID)
- QC-2 Trip Blank
- QC-3 Rinsate Blank

Well ID	Well Diam	Order Measured/ Sampled	Total Depth	Depth to Water	Depth to Product	Product Thickness	Comments
MW-1	2"	1	26.01	9.65	Ø	Ø	Well box cover is split from casing
MW-2	2"	2	25.67	9.28	↓	↓	
MW-3	2"	3	26.28	9.78	↓	↓	
AW-4	4"	4	34.35	8.00	↓	↓	Broken lid on well box
AW-5	4"	6	33.15	9.13	↓	↓	
AW-6	4"	5	16.78	8.67	↓	↓	

Notes:

ALISTO ENGINEERING GROUP

Groundwater Development and Sampling Form

Client: BP
 Alisto Project No: 10-017
 Service Station No: 1116

Date: 11/15/93
 Field Personnel: LOB
 Address: Dublin, GA

Well ID: MW-4 Field Activity: Well Development Well Sampling Product Bailing

Casing Diameter:

- 2 Inch (0.16 Gal/foot)
- 3 Inch (0.37 Gal/foot)
- 4 Inch (0.65 Gal/foot)
- 4.5 Inch (0.83 Gal/foot)
- 6 Inch (1.47 Gal/foot)

Purge Method:

- Pump (dispos. Poly Tubing)
- Disposable Bailers
- Other
- 1.66 PVC Standard Bailer
- 3.50 PVC Standard Bailer

Well Data:

- Depth to Product
- Product Thickness
- 8.00 Depth to Water

Sampling Method:

- Disposable Bailer
- Pump

Decontamination Method:

- Triple Rinse (Liquinox)
- Steam Cleaned

Calculated Purge Volume

$$\frac{34.35 - 8.00}{26.35 \text{ ft}} \times 0.65 \text{ Gal/Ft} = 17.12 \text{ Gal} \times 3 = 51.36$$

Total Depth of Well	Depth to Water	Water Column	Conversion Factor	Casing Vol	Vols to Purge	Total Volume
---------------------	----------------	--------------	-------------------	------------	---------------	--------------

Well Development/Sampling Parameters

Time	Temp °F	pH	Cond. (umhos/cm) X/1000	Purge Vol (Gal)	Comments/Turbidity	Analysis Required	Container Type	Preserv
1428	70.3	7.30	1.58	10	clear	<input checked="" type="checkbox"/> TPH-G/BTEX	VOA	HCL
1436	67.2	7.25	1.67	20	↓	TPH-Diesel	Amber Liter	Solvent Rinsed
1444	66.2	7.11	1.77	30		EPA 601	VOA	
1452	65.9	7.05	1.79	40		TOG 5520BF	Amber Liter	H ₂ SO ₄
1500	65.6	7.00	1.82	51.50				

Begin 1420 Stop 1500 Sampled 1510

Dissolved O₂:

Begin 2.1
End 2.3

ALISTO ENGINEERING GROUP

Groundwater Development and Sampling Form

Client: BP
 Alisto Project No: 10-017
 Service Station No: 11116

Date: 11/12/93
 Field Personnel: LCB
 Address: Dublin, GA

Well ID: AW-5 Field Activity: Well Development Well Sampling Product Bailing

Casing Diameter: Purge Method:

2 Inch (0.16 Gal/foot) Pump (dispos. Poly Tubing)
 3 Inch (0.37 Gal/foot) Disposable Bailers
 4 Inch (0.65 Gal/Foot) Other
 4.5 Inch (0.83 Gal/foot) 1.66 PVC Standard Bailer
 6 Inch (1.47 Gal/foot) 3.50 PVC Standard Bailer

Well Data:

Depth to Product
 Product Thickness
9.13 Depth to Water

Sampling Method: Decontamination Method:

Disposable Bailer Triple Rinse (Liquinox)
 Pump Steam Cleaned

Calculated Purge Volume
 $\frac{2315}{3315} - 9.13 = 24.02 \text{ ft} \times .65 \text{ Gal/Ft} = 15.61 \text{ Gal} \times 3 = 4683$

Total Depth of Well	Depth to Water	Water Column	Conversion Factor	Casing Vol	Vols to Purge	Total Volume
------------------------	-------------------	-----------------	----------------------	------------	------------------	-----------------

Well Development/Sampling Parameters

Time	Temp °F	pH	Cond. (umhos/ cm) X1000	Purge Vol (Gal)	Comments/ Turbidity	Analysis Required	Container Type	Preserv
1404	75.5	7.48	.86	9	Clear	↓	VOA	HCL
1408	74.6	7.47	.80	18			Amber Liter	Solvent Rinsed
1412	74.2	7.41	.78	28			VOA	
1416	73.6	7.37	.77	37			Amber Liter	H ₂ SO ₄
1420	73.1	7.33	.75	47				

Begin 1400 Stop 1420 Sampled 1425

Dissolved oxygen
 Begin: 2.1 PPM
 End: 2.5 PPM

ALISTO ENGINEERING GROUP

Groundwater Development and Sampling Form

Client: BP
 Alisto Project No: 10-017
 Service Station No: 1116

Date: 11/12/93
 Field Personnel: LCB
 Address: Dublin, Ca

Well ID: AW-6 Field Activity: Well Development Well Sampling Product Bailing

Casing Diameter:

- 2 Inch (0.16 Gal/foot)
 3 Inch (0.37 Gal/foot)
 4 Inch (0.65 Gal/foot)
 4.5 Inch (0.83 Gal/foot)
 6 Inch (1.47 Gal/foot)

Purge Method:

- Pump (dispos. Poly Tubing)
 Disposable Bailers
 Other
 1.66 PVC Standard Bailer
 3.50 PVC Standard Bailer

Well Data:

- Depth to Product
 Product Thickness
 8.67 Depth to Water

Sampling Method:

- Disposable Bailer
 Pump

Decontamination Method:

- Triple Rinse (Liquinox)
 Steam Cleaned

Calculated Purge Volume

$$\frac{16.78 - 8.67}{1} = 8.11 \text{ ft} \times .65 \text{ Gal/Ft} = 5.27 \text{ Gal} \times 3 = 15.81$$

Total Depth of Well	Depth to Water	Water Column	Conversion Factor	Casing Vol	Vols to Purge	Total Volume
---------------------	----------------	--------------	-------------------	------------	---------------	--------------

Well Development/Sampling Parameters

Time	Temp °F	pH	Cond. (umhos/cm) X 1000	Purge Vol (Gal)	Comments/Turbidity	Analysis Required	Container Type	Preserv
1435	72.9	7.64	.62	3	Clear	<input checked="" type="checkbox"/> TPH-G/BTEX	VOA	HCL
1440	74.1	7.25	.56	6		TPH-Diesel	Amber Liter	Solvent Rinsed
1445	74.6	7.21	.53	9		EPA 601	VOA	
1450	74.3	7.15	.52	12		TOG 5520BF	Amber Liter	H ₂ SO ₄
1455	74.3	7.13	.51	16	✓			

Begin 1430

Stop 1455

Sampled 1500

QC-1 taken from this well

Dissolved oxygen

Begin: 2.2 ppm

End: 2.7 ppm

APPENDIX B

LABORATORY REPORT AND CHAIN OF CUSTODY RECORD



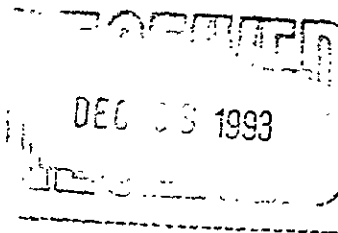
10-017-02-003

REPORT OF LABORATORY ANALYSIS

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

December 01, 1993
PACE Project Number: 431112506

Attn: Mr. Bill Howell



Client Reference: BP Station # 11116

PACE Sample Number: 70 0190665
Date Collected: 11/12/93
Date Received: 11/17/93
AW-5

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

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS			
TOTAL FUEL HYDROCARBONS, (LIGHT):		-	11/16/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	180
PURGEABLE AROMATICS (BTXE BY EPA 8020M):		-	11/16/93
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



REPORT OF LABORATORY ANALYSIS

Mr. Bill Howell
Page 2

December 01, 1993
PACE Project Number: 431112506

Client Reference: BP Station # 11116

PACE Sample Number: 70 0190673
Date Collected: 11/12/93
Date Received: 11/17/93
Client Sample ID: AW-6

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

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):			-	11/17/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	5000	62000	11/17/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	11/17/93
Benzene	ug/L	12	4600	11/17/93
Toluene	ug/L	12	420	11/17/93
Ethylbenzene	ug/L	12	310	11/17/93
Xylenes, Total	ug/L	12	1100	11/17/93



REPORT OF LABORATORY ANALYSIS

Mr. Bill Howell
Page 3

December 01, 1993
PACE Project Number: 431112506

Client Reference: BP Station # 11116

PACE Sample Number: 70 0190681
Date Collected: 11/12/93
Date Received: 11/17/93
Client Sample ID: QC-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	5000	-	11/17/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	11/17/93
Benzene	ug/L	12	4100	11/17/93
Toluene	ug/L	12	360	11/17/93
Ethylbenzene	ug/L	12	290	11/17/93
Xylenes, Total	ug/L	12	1000	11/17/93

Mr. Bill Howell
 Page 4

December 01, 1993
 PACE Project Number: 431112506

Client Reference: BP Station # 11116

PACE Sample Number: 70 0190690
 Date Collected: 11/12/93
 Date Received: 11/17/93
 Client Sample ID: QC-2

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
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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 5

December 01, 1993
 PACE Project Number: 431112506

Client Reference: BP Station # 11116

PACE Sample Number: 70 0193559
 Date Collected: 11/15/93
 Date Received: 11/17/93
 Client Sample ID: AW-4
 Parameter

Units MDL DATE ANALYZED

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):			-	11/28/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	11/28/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	11/28/93
Benzene	ug/L	0.5	ND	11/28/93
Toluene	ug/L	0.5	ND	11/28/93
Ethylbenzene	ug/L	0.5	ND	11/28/93
Xylenes, Total	ug/L	0.5	ND	11/28/93

These data have been reviewed and are approved for release.

Darrell C. Cain
 Darrell C. Cain
 Regional Director

Mr. Bill Howell
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FOOTNOTES
for pages 1 through 5

December 01, 1993
PACE Project Number: 431112506

Client Reference: BP Station # 11116

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

REPORT OF LABORATORY ANALYSIS

Mr. Bill Howell
 Page 7

QUALITY CONTROL DATA

December 01, 1993
 PACE Project Number: 431112506

Client Reference: BP Station # 11116

PURGEABLE FUELS AND AROMATICS

Batch: 70 26464
 Samples: 70 0190665, 70 0190673, 70 0190681, 70 0190690

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

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dup1 Recv	RPD
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	1000	93%	91%	2%
Benzene	ug/L	0.5	40.0	92%	100%	8%
Toluene	ug/L	0.5	40.0	97%	103%	6%
Ethylbenzene	ug/L	0.5	40.0	101%	100%	0%
Xylenes, Total	ug/L	0.5	120	101%	100%	0%

Mr. Bill Howell
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QUALITY CONTROL DATA

December 01, 1993
 PACE Project Number: 431112506

Client Reference: BP Station # 11116

PURGEABLE FUELS AND AROMATICS

Batch: 70 26668
 Samples: 70 0193559

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

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	1000	98%	97%	1%
Benzene	ug/L	0.5	100	101%	101%	0%
Toluene	ug/L	0.5	100	102%	101%	0%
Ethylbenzene	ug/L	0.5	100	102%	101%	0%
Xylenes, Total	ug/L	0.5	300	99%	99%	0%

Mr. Bill Howell
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FOOTNOTES
for pages 7 through 8

December 01, 1993
PACE Project Number: 431112506

Client Reference: BP Station # 11116

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



431112-506

CHAIN OF CUSTODY

No. 00438

Page 1 of 1

CONSULTANT'S NAME: Alisto Engineering ADDRESS: 1777 Oakland Blvd #200 Walnut Creek CITY: Walnut Creek STATE: Ca ZIP CODE: 94596

BP SITE NUMBER: 11116 BP CORNER ADDRESS/CITY: Dublin, Ca CONSULTANT PROJECT NUMBER: 10-017-02/0

CONSULTANT PROJECT MANAGER: Bill Howell PHONE NUMBER: (510) 295-1650 FAX NUMBER: 295-1823 CONSULTANT CONTRACT NUMBER: _____

BP CONTACT: Scott Apton BP ADDRESS: Tykwillia, Wash PHONE NUMBER: _____ FAX NO: _____

LAB CONTACT: Pace Inc LABORATORY ADDRESS: Novato, Ca PHONE NUMBER: (415) 883-6100 FAX NO: 883-2673

SAMPLED BY (Please Print Name): Larry Buehler SAMPLED BY (Signature): Jam Buehler SHIPMENT DATE: _____ SHIPMENT METHOD: Courier

TAI: 24 Hours 48 Hours 1 Week Standard 2 Weeks

ANALYSIS REQUIRED: _____ AIRBILL NUMBER: _____

SAMPLE DESCRIPTION	COLLECTION DATE	MATRIX SOIL/WATER	CONTAINERS		PRESERVATIVE	LAB SAMPLE #	COMMENTS
			NO.	TYPE (VOL.)			
AW-5	11/12/13	W	3	HCL Vials		19066.5	EXTRA VIALS
AW-6						19067.3	
QC-1						19068.1	
QC-2			2			19069.0	

REINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	ADDITIONAL COMMENTS
<u>Jam Buehler</u>	<u>11/12/13</u>	<u>1610</u>	<u>P. Ch...</u> - <u>PACE</u>	<u>11/12/13</u>	<u>1610</u>	<u>1/10/1</u>
<u>P. Ch...</u> - <u>PACE</u>	<u>11/12/13</u>	<u>1610</u>	<u>Sandra Briones</u>	<u>11/12</u>	<u>1745</u>	



1131112.506

CHAIN OF CUSTODY

No. 00447

Page 1 of 1

CONSULTANT'S NAME: **Alisto Engineering** ADDRESS: **1777 Oakland Blvd #200** CITY: **Walnut Creek** STATE: **CA** ZIP CODE: **94596**

BP SITE NUMBER: **11116** BP CORNER ADDRESS: **Dublin, CA** CONSULTANT PROJECT NUMBER: **10-017-02/003**

CONSULTANT PROJECT MANAGER: **Bill Howell** PHONE NUMBER: **(510) 295-1650** FAX NUMBER: **295-1823** CONSULTANT CONTRACT NUMBER: **Pace F973482**

BP CONTACT: **Scott Hooton** BP ADDRESS: **Tukwila, WA** PHONE NUMBER: **(415) 883-6100** FAX NO: **883-2673**

LAB CONTACT: **Pace Inc.** LABORATORY ADDRESS: **Novato, CA** PHONE NUMBER: **(415) 883-6100** FAX NO: **883-2673**

SAMPLED BY (Please Print Name): **Larry Buenvenida** SAMPLED BY (Signature): **[Signature]** SHIPMENT DATE: SHIPMENT METHOD: **Courier**

ANALYSIS REQUIRED: 24 Hours 48 Hours 1 Week Standard 2 Weeks

AIRBILL NUMBER: **[Blank]**

SAMPLE DESCRIPTION	COLLECTION DATE	MATRIX SOIL/WATER	CONTAINERS		PRESERVATIVE	COMMENTS
			NO.	TYPE (VOL.)	LAB SAMPLE #	
AW-4	11/15/93	W	3	HL	19355.9	Labels read MW-4 JM 11/18

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	ADDITIONAL COMMENTS
[Signature]	11/16/93	1535	Donald Jozanski Pace	11/17/93	1537	
Donald Jozanski Pace	11/16/93	1710	[Signature]	11/17/93	1710	