



BP OIL

BP Oil Company
16400 Southcenter Parkway, Suite 301
Tukwila, Washington 98188
(206) 575-4077

May 18, 1993

Mr. Rafat Shahid
Alameda County Health Agency
80 Swan Way, Room 200
Oakland, CA 94621

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

Dear Mr. Shahid:

Attached please find our GROUNDWATER MONITORING AND SAMPLING REPORT for the above referenced facility.

Please call me at (206) 394-5243 with questions regarding this submission.

Respectfully,

A handwritten signature in black ink, appearing to read 'Scott T. Hooton'.

Scott T. Hooton
Environmental Resources Management
Group Leader

STH:jc ERM11116

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

Site file

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GROUNDWATER MONITORING AND SAMPLING REPORT

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

Project No. 10-017

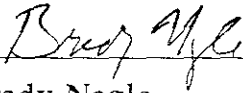
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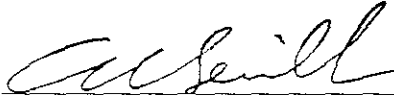
BP Oil Company
Environmental Resource Management
16400 Southcenter Parkway, Suite 301
Tukwila, Washington

Prepared by:

Alisto Engineering Group
1777 Oakland Road, Suite 200
Walnut Creek, California 94596
(510) 295-1650

April 27, 1993


Brady Nagle
Project Manager


Al Sevilla, P.E.
Principal



GROUNDWATER MONITORING AND SAMPLING REPORT

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

Project No. 10-017

April 27, 1993

INTRODUCTION

This report presents the results and findings of the February 10, 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 the 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.

Depth to groundwater measurements were performed concurrently with the neighboring Unocal Corporation service station, 7375 Amador Valley Boulevard; the former Shell Oil Company service station, 7194 Amador Valley Boulevard; and the Arco Products Company service station, 7249 Village Parkway. The results 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, unless the monitoring well would not produce sufficient groundwater. 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 at the BP Oil Company site are summarized in Table 1. The potentiometric surface elevations for groundwater in the vicinity, as interpreted from the results of this coordinated monitoring event, are 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)	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	PAGE
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 (d)	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 (e)	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	---	---	PAGE

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)	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
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 (e)	02/10/93	333.41	---	---	---	---	---	---	---	---	---	---	---

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)	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 (f)	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-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 (g)	02/10/93	---	---	---	12000	---	520	15	13	610	---	---	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)	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 (h)	11/10/92	--	--	--	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	ANA
QC-2 (h)	02/10/93	--	--	--	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 at or above reported detection limit
 -- Not analyzed/available
 ANA Anametrix, Inc
 SUP Superior Analytical Laboratory
 SEQ Sequoia Analytical laboratory
 PACE Pace, Inc

NOTES:

(a) Top of casing elevation for all wells 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) In feet above mean sea level.
 (c) Methylene chloride.
 (d) Typical chromatogram patterns not present.
 (e) Well could not be located.
 (f) Blind duplicate of sample collected from MW-5.
 (g) Blind duplicate of sample collected from AW-6.
 (h) 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-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-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-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

NOTES:

- (a) Top of casing elevations for all wells surveyed to the nearest 0.01 foot above mean sea level.
- (b) Groundwater elevation 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-2	08/12/92	336.96	11.58	325.38
MW-2	11/10/92	336.96	12.05	324.91
MW-3	08/12/92	336.93	10.94	325.99
MW-3	11/10/92	336.93	11.84	325.09
MW-4	08/12/92	337.14	11.36	325.78
MW-4	11/10/92	337.14	12.12	325.02
MW-5	08/12/92	334.96	9.40	325.56
MW-5	11/10/92	334.96	9.65	325.31
MW-6	08/12/92	335.42	9.72	325.70
MW-6	11/10/92	335.42	10.56	324.86
MW-7	08/12/92	333.23	8.65	324.58
MW-7	11/10/92	333.23	8.82	324.41
MW-8	08/12/92	335.80	9.82	325.98
MW-8	11/10/92	335.80	10.41	325.39
MW-9	08/12/92	334.57	8.97	325.60
MW-9	11/10/92	334.57	9.61	324.96
MW-10 (c)	--	--	--	--
MW-11	08/12/92	334.20	8.75	325.45
MW-11	11/10/92	334.20	9.47	324.73
MW-12	08/12/92	332.53	9.83	322.70
MW-12	11/10/92	332.53	8.32	324.21
MW-13	08/12/92	335.64	10.91	324.73
MW-13	11/10/92	335.64	10.69	324.95
RW-1 (d)	08/12/92	--	--	--
RW-1 (d)	11/10/92	--	--	--

NOTES.

- (a) Top of casing elevation for all wells surveyed to the nearest 0.01 foot above mean sea level.
- (b) Groundwater elevation in feet above mean sea level.
- (c) Monitoring Well MW-10 was destroyed.
- (d) Data not available.

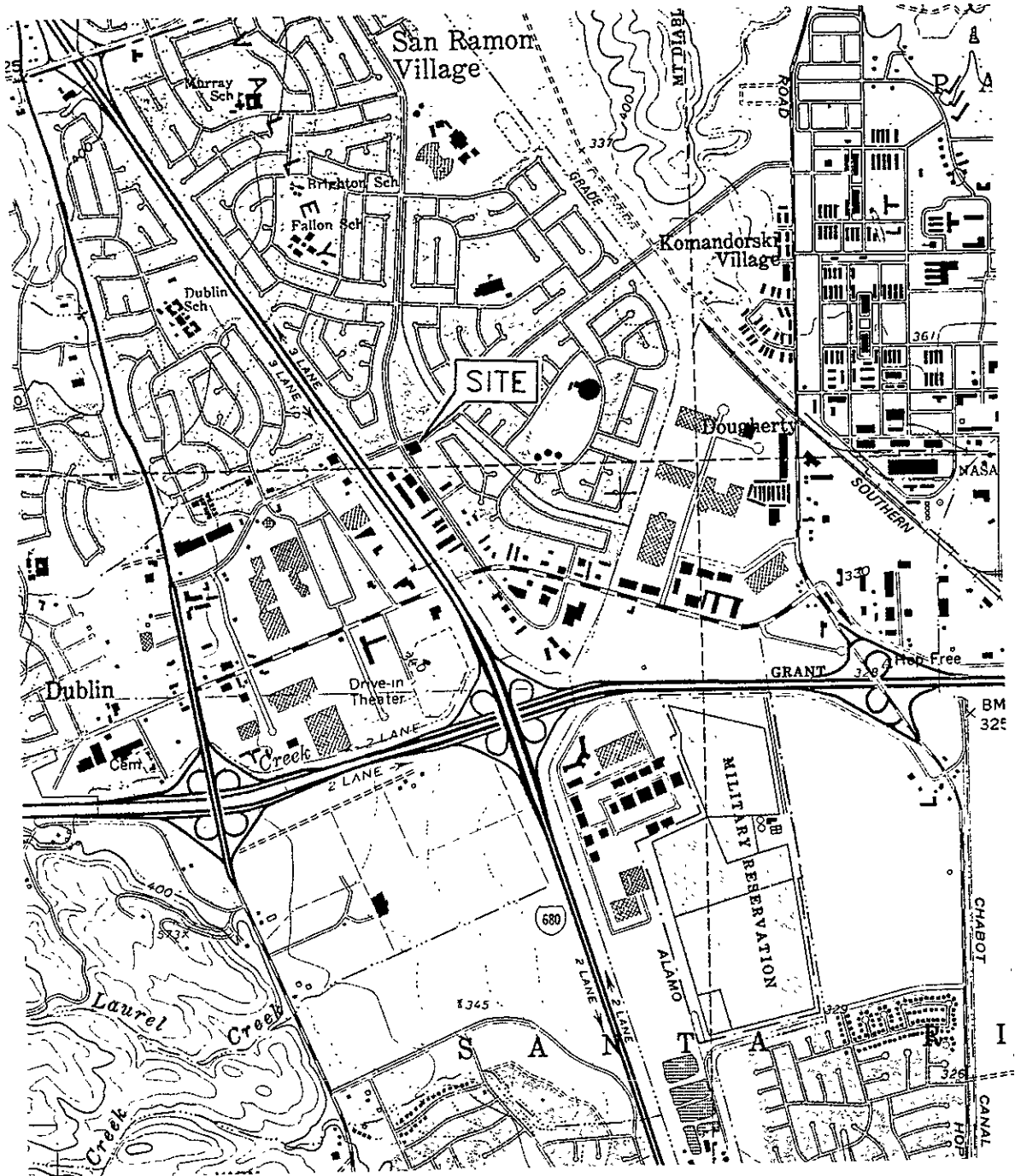
TABLE 4 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING
 ARCO PRODUCTS SERVICE STATION 6041
 7249 VILLAGE PARKWAY, DUBLIN, CALIFORNIA

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-2	11/10/92	334.80	10.12	324.68
MW-2	02/10/93	334.80	7.30	327.50
MW-3	11/10/92	335.53	10.72	324.81
MW-3	02/10/93	335.53	7.87	327.66
MW-4	11/10/92	334.22	9.58	324.64
MW-4	02/10/93	334.22	6.80	327.42
MW-5	11/10/92	335.87	11.02	324.85
MW-5	02/10/93	335.87	8.00	327.87
MW-6	11/10/92	335.84	11.03	324.81
MW-6	02/10/93	335.84	8.22	327.62

NOTES:

- (a) Top of casing elevations for all well surveyed to the nearest 0.01 foot above mean sea level.
- (b) Groundwater elevation in feet above mean sea level.

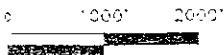


SOURCE:
 USGS MAP, DUBLIN QUADRANGLE, CALIFORNIA.
 7.5 MINUTE SERIES. 1961. PHOTOREVERSED 1980.

FIGURE 1

SITE VICINITY MAP

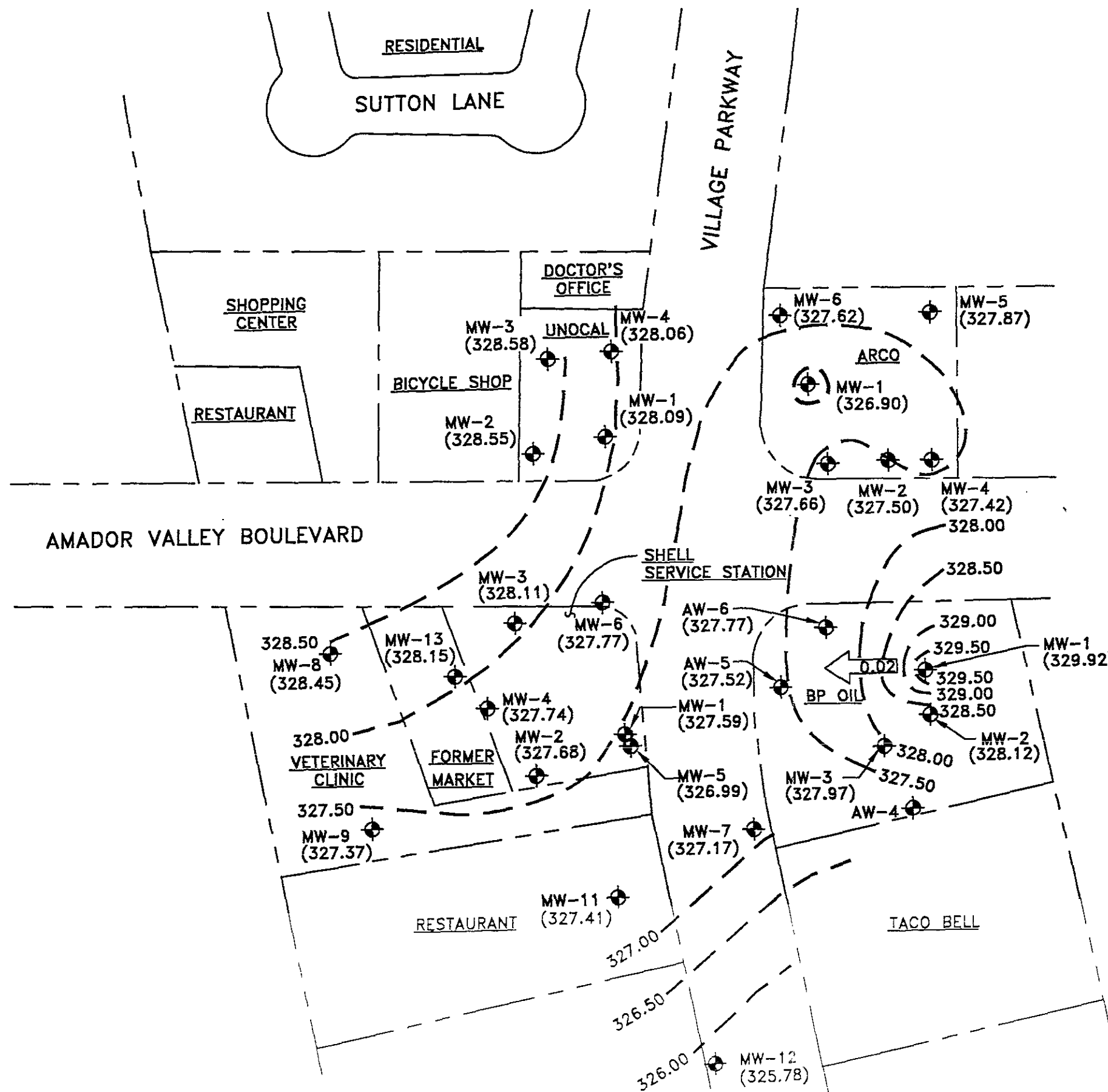
BP OIL SERVICE STATION NO. 11116
 7197 VILLAGE PARKWAY
 DUBLIN, CALIFORNIA






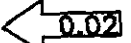
ALISTO PROJECT NO. 10-017



ALISTO ENGINEERING GROUP
 CONCORD, CALIFORNIA



LEGEND:

-  GROUNDWATER MONITORING WELL
-  (329.92) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
-  326.00 GROUNDWATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL (CONTOUR INTERVAL - 0.50 FOOT)
-  0.02 CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE

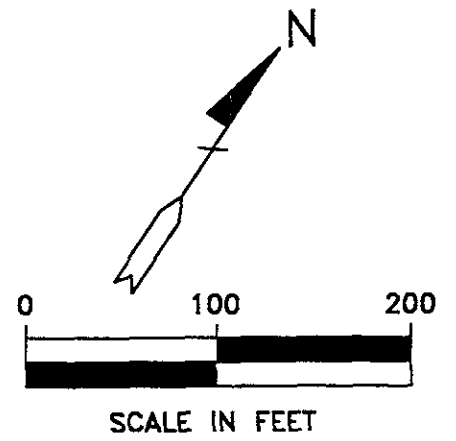
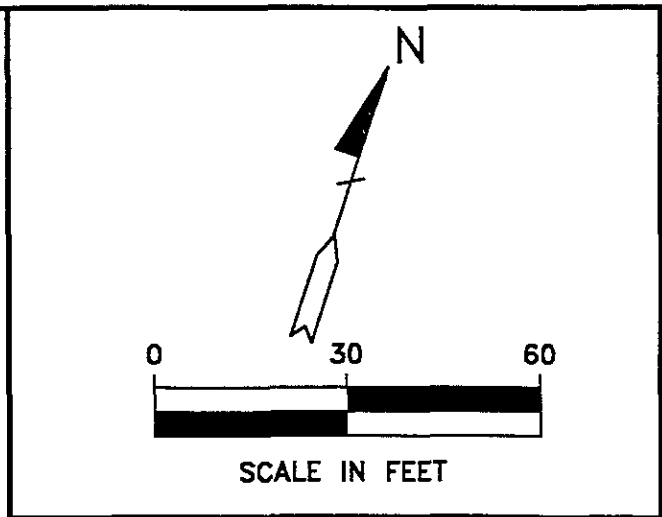
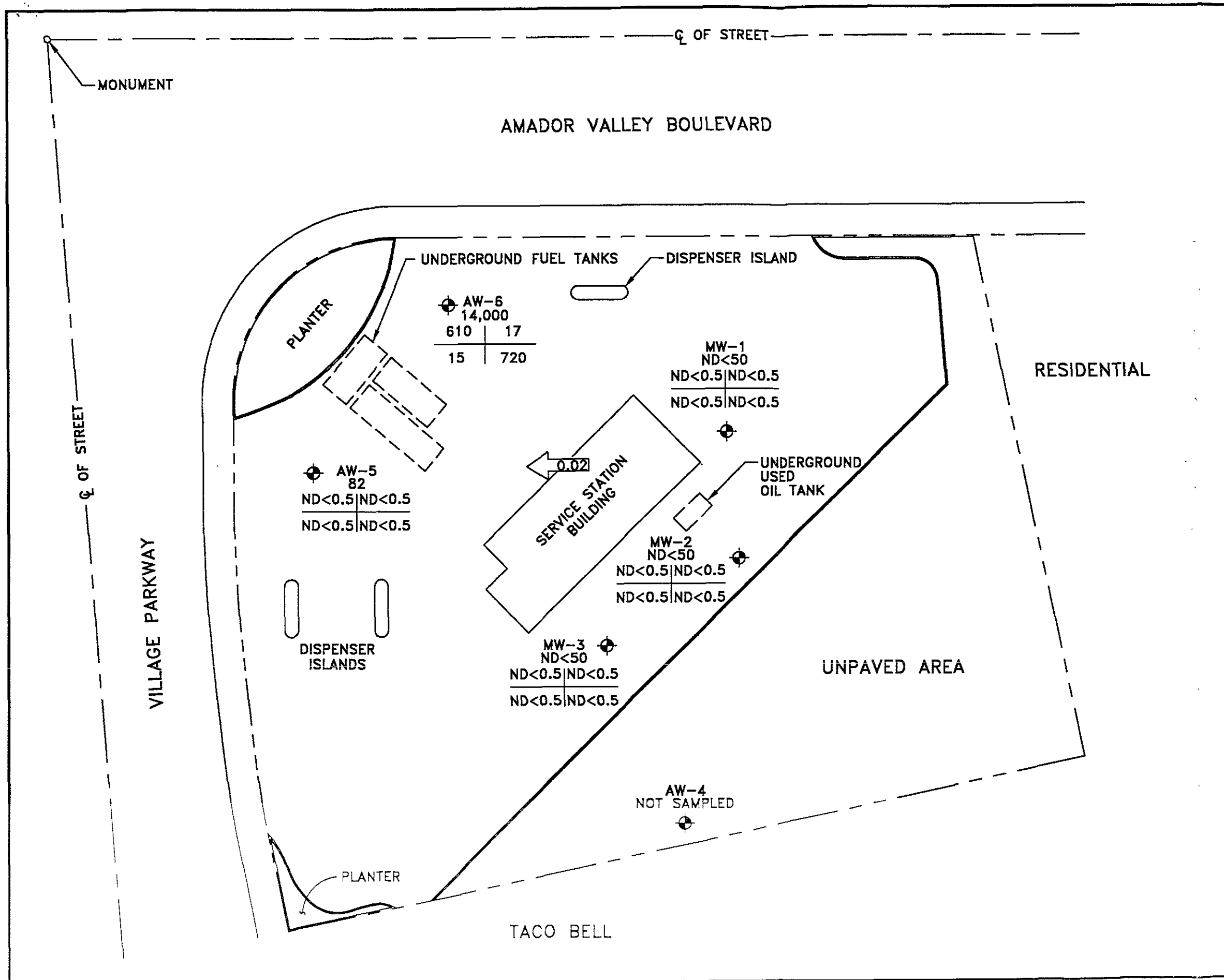


FIGURE 2
POTENTIOMETRIC GROUNDWATER ELEVATION CONTOUR MAP
 (FEBRUARY 10, 1993)

BP OIL SERVICE STATION NO. 11116
 7197 VILLAGE PARKWAY
 DUBLIN, CALIFORNIA
 PROJECT NO. 10-017



LEGEND:

- ⊕ GROUNDWATER MONITORING WELL
- TPH-G CONCENTRATION OF CONSTITUENTS IN PARTS PER BILLION (PPB)
- 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
- 0.02 → CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE

FIGURE 3
CONCENTRATIONS OF PETROLEUM HYDROCARBONS IN GROUNDWATER (FEBRUARY 10, 1993)

BP OIL SERVICE STATION NO. 11116
 7197 VILLAGE PARKWAY
 DUBLIN, CALIFORNIA
 PROJECT NO. 10-017

10017E-E.DWG 4-28-93 1-30

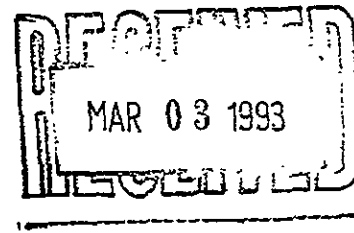
APPENDIX A

WATER SAMPLING FIELD SURVEY FORMS

APPENDIX B

LABORATORY REPORT AND CHAIN OF CUSTODY RECORD

February 24, 1993



Mr. Brady Nagle
Alisto Engineering Group
1000 Burnett Ave., Ste. 420
Concord, CA 94520

RE: PACE Project No. 430211.510
Client Reference: BP Station # 11116

Dear Mr. Nagle:

Enclosed is the report of laboratory analyses for samples received February 11, 1993.

Footnotes are given at the end of the report.

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

Sincerely,

A handwritten signature in cursive script that reads "Stephanie Matzo".

Stephanie Matzo
Project Manager

Enclosures

Alisto Engineering Group
 1000 Burnett Ave., Ste. 420
 Concord, CA 94520

February 24, 1993
 PACE Project Number: 430211510

Attn: Mr. Brady Nagle

Client Reference: BP Station # 11116

PACE Sample Number: 70 0008476
 Date Collected: 02/10/93
 Date Received: 02/11/93
 Client Sample ID: MW-1

<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):			-	02/15/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	02/15/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	02/15/93
Benzene	ug/L	0.5	ND	02/15/93
Toluene	ug/L	0.5	ND	02/15/93
Ethylbenzene	ug/L	0.5	ND	02/15/93
Xylenes, Total	ug/L	0.5	ND	02/15/93

HALOGENATED VOLATILE COMPOUNDS EPA 8010

Dichlorodifluoromethane	ug/L	2.0	ND	02/23/93
Chloromethane	ug/L	2.0	ND	02/23/93
Vinyl Chloride	ug/L	2.0	ND	02/23/93
Bromomethane	ug/L	2.0	ND	02/23/93
Chloroethane	ug/L	2.0	ND	02/23/93
Trichlorofluoromethane (Freon 11)	ug/L	2.0	ND	02/23/93
1,1-Dichloroethene	ug/L	0.5	ND	02/23/93
Methylene Chloride	ug/L	2.0	ND	02/23/93
trans-1,2-Dichloroethene	ug/L	0.5	ND	02/23/93
cis-1,2-Dichloroethene	ug/L	0.5	ND	02/23/93
1,1-Dichloroethane	ug/L	0.5	ND	02/23/93
Chloroform	ug/L	0.5	ND	02/23/93
1,1,1-Trichloroethane (TCA)	ug/L	0.5	ND	02/23/93
Carbon Tetrachloride	ug/L	0.5	ND	02/23/93
1,2-Dichloroethane (EDC)	ug/L	0.5	ND	02/23/93
Trichloroethene (TCE)	ug/L	0.5	ND	02/23/93
1,2-Dichloropropane	ug/L	0.5	ND	02/23/93
Bromodichloromethane	ug/L	0.5	ND	02/23/93
2-Chloroethylvinyl ether	ug/L	0.5	ND	02/23/93
cis-1,3-Dichloropropene	ug/L	0.5	ND	02/23/93

Mr. Brady Nagle
 Page 2

February 24, 1993
 PACE Project Number: 430211510

Client Reference: BP Station # 11116

PACE Sample Number: 70 0008476
 Date Collected: 02/10/93
 Date Received: 02/11/93
 Client Sample ID: MW-1

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>		<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

HALOGENATED VOLATILE COMPOUNDS EPA 8010

trans-1,3-Dichloropropene	ug/L	0.5	ND	02/23/93
1,1,2-Trichloroethane	ug/L	0.5	ND	02/23/93
Tetrachloroethene	ug/L	0.5	ND	02/23/93
Dibromochloromethane	ug/L	0.5	ND	02/23/93
Chlorobenzene	ug/L	0.5	ND	02/23/93
Bromoform	ug/L	0.5	ND	02/23/93

1,1,2,2-Tetrachloroethane	ug/L	0.5	ND	02/23/93
1,3-Dichlorobenzene	ug/L	0.5	ND	02/23/93
1,4-Dichlorobenzene	ug/L	0.5	ND	02/23/93
1,2-Dichlorobenzene	ug/L	0.5	ND	02/23/93
Bromochloromethane (Surrogate Recovery)			100%	02/23/93
1,4-Dichlorobutane (Surrogate Recovery)			108%	02/23/93

EXTRACTABLE FUELS EPA 3510/8015

Extractable Fuels, as Diesel	mg/L	0.05	ND	02/15/93
Date Extracted			02/12/93	

OIL AND GREASE, SILICA GEL (LUFT)

Oil and Grease, Gravimetric (SM5520)	mg/L	5.0	ND	02/15/93
Date Extracted			02/13/93	

Mr. Brady Nagle

Page 3

February 24, 1993

PACE Project Number: 430211510

Client Reference: BP Station # 11116

PACE Sample Number:

70 0008484

Date Collected:

02/10/93

Date Received:

02/11/93

Client Sample ID:

MW-3

Parameter

Units

MDL

DATE ANALYZED

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):

Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	-	02/15/93
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PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	02/15/93
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Benzene	ug/L	0.5	ND	02/15/93
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Toluene	ug/L	0.5	ND	02/15/93
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Ethylbenzene	ug/L	0.5	ND	02/15/93
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Xylenes, Total	ug/L	0.5	ND	02/15/93
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HALOGENATED VOLATILE COMPOUNDS EPA 8010

Dichlorodifluoromethane	ug/L	2.0	ND	02/23/93
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Chloromethane	ug/L	2.0	ND	02/23/93
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Vinyl Chloride	ug/L	2.0	ND	02/23/93
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Bromomethane	ug/L	2.0	ND	02/23/93
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Chloroethane	ug/L	2.0	ND	02/23/93
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Trichlorofluoromethane (Freon 11)	ug/L	2.0	ND	02/23/93
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1,1-Dichloroethene	ug/L	0.5	ND	02/23/93
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Methylene Chloride	ug/L	2.0	ND	02/23/93
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trans-1,2-Dichloroethene	ug/L	0.5	ND	02/23/93
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cis-1,2-Dichloroethene	ug/L	0.5	ND	02/23/93
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1,1-Dichloroethane	ug/L	0.5	ND	02/23/93
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Chloroform	ug/L	0.5	ND	02/23/93
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1,1,1-Trichloroethane (TCA)	ug/L	0.5	ND	02/23/93
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Carbon Tetrachloride	ug/L	0.5	ND	02/23/93
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1,2-Dichloroethane (EDC)	ug/L	0.5	ND	02/23/93
--------------------------	------	-----	----	----------

Trichloroethene (TCE)	ug/L	0.5	ND	02/23/93
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1,2-Dichloropropane	ug/L	0.5	ND	02/23/93
---------------------	------	-----	----	----------

Bromodichloromethane	ug/L	0.5	ND	02/23/93
----------------------	------	-----	----	----------

2-Chloroethylvinyl ether	ug/L	0.5	ND	02/23/93
--------------------------	------	-----	----	----------

cis-1,3-Dichloropropene	ug/L	0.5	ND	02/23/93
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trans-1,3-Dichloropropene	ug/L	0.5	ND	02/23/93
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1,1,2-Trichloroethane	ug/L	0.5	ND	02/23/93
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Tetrachloroethene	ug/L	0.5	ND	02/23/93
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Mr. Brady Nagle
 Page 4

February 24, 1993
 PACE Project Number: 430211510

Client Reference: BP Station # 11116

PACE Sample Number: 70 0008484
 Date Collected: 02/10/93
 Date Received: 02/11/93
 Client Sample ID: MW-3

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>		<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

HALOGENATED VOLATILE COMPOUNDS EPA 8010

Dibromochloromethane	ug/L	0.5	ND	02/23/93
Chlorobenzene	ug/L	0.5	ND	02/23/93
Bromoform	ug/L	0.5	ND	02/23/93
1,1,2,2-Tetrachloroethane	ug/L	0.5	ND	02/23/93
1,3-Dichlorobenzene	ug/L	0.5	ND	02/23/93
1,4-Dichlorobenzene	ug/L	0.5	ND	02/23/93
1,2-Dichlorobenzene	ug/L	0.5	ND	02/23/93
Bromochloromethane (Surrogate Recovery)			101%	02/23/93
1,4-Dichlorobutane (Surrogate Recovery)			107%	02/23/93

EXTRACTABLE FUELS EPA 3510/8015

Extractable Fuels, as Diesel	mg/L	0.05	ND	02/15/93
Date Extracted			02/12/93	

OIL AND GREASE, SILICA GEL (LUFT)

Oil and Grease, Gravimetric (SM5520)	mg/L	5.0	ND	02/15/93
Date Extracted			02/13/93	

Mr. Brady Nagle
 Page 5

February 24, 1993
 PACE Project Number: 430211510

Client Reference: BP Station # 11116

PACE Sample Number: 70 0008492
 Date Collected: 02/10/93
 Date Received: 02/11/93
 Client Sample ID: MW-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):		-	02/15/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND 02/15/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			
Benzene	ug/L	0.5	ND 02/15/93
Toluene	ug/L	0.5	ND 02/15/93
Ethylbenzene	ug/L	0.5	ND 02/15/93
Xylenes, Total	ug/L	0.5	ND 02/15/93

Mr. Brady Nagle
 Page 6

February 24, 1993
 PACE Project Number: 430211510

Client Reference: BP Station # 11116

PACE Sample Number: 70 0008506
 Date Collected: 02/10/93
 Date Received: 02/11/93
 Client Sample ID: AW-5

<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):				02/15/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	82	02/15/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):				02/15/93
Benzene	ug/L	0.5	ND (MT)	02/15/93
Toluene	ug/L	0.5	ND	02/15/93
Ethylbenzene	ug/L	0.5	ND	02/15/93
Xylenes, Total	ug/L	0.5	ND	02/15/93

Mr. Brady Nagle
 Page 7

February 24, 1993
 PACE Project Number: 430211510

Client Reference: BP Station # 11116

PACE Sample Number: 70 0008514
 Date Collected: 02/10/93
 Date Received: 02/11/93
 Client Sample ID: AW-6

<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):			-	02/16/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	500	14000	02/16/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	02/16/93
Benzene	ug/L	5.0	610 (MT)	02/16/93
Toluene	ug/L	5.0	17	02/16/93
Ethylbenzene	ug/L	5.0	15	02/16/93
Xylenes, Total	ug/L	5.0	720	02/16/93

Mr. Brady Nagle
 Page 8

February 24, 1993
 PACE Project Number: 430211510

Client Reference: BP Station # 11116

PACE Sample Number: 70 0008522
 Date Collected: 02/10/93
 Date Received: 02/11/93
 Client Sample ID: QC-1

<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	250	12000
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			
Benzene	ug/L	2.5	520 (MT)
Toluene	ug/L	2.5	15
Ethylbenzene	ug/L	2.5	13
Xylenes, Total	ug/L	2.5	610

Mr. Brady Nagle
 Page 9

February 24, 1993
 PACE Project Number: 430211510

Client Reference: BP Station # 11116

PACE Sample Number: 70 0008530
 Date Collected: 02/10/93
 Date Received: 02/11/93
 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):			-	02/15/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	02/15/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	02/15/93
Benzene	ug/L	0.5	ND	02/15/93
Toluene	ug/L	0.5	ND	02/15/93
Ethylbenzene	ug/L	0.5	ND	02/15/93
Xylenes, Total	ug/L	0.5	ND	02/15/93

These data have been reviewed and are approved for release.

Darrell Cain
 Darrell C. Cain
 Regional Director

Mr. Brady Nagle
Page 10

FOOTNOTES
for pages 1 through 9

February 24, 1993
PACE Project Number: 430211510

Client Reference: BP Station # 11116

MDL Method Detection Limit
ND Not detected at or above the MDL.
(MT) A peak eluting earlier than Benzene and suspected to be methyl tert butyl ether was present in samples AW-5, AW-6, and QC-1 at approximately 140 ppb, 14000 ppb, and 17000 ppb respectively.

Mr. Brady Nagle
 Page 11

QUALITY CONTROL DATA

February 24, 1993
 PACE Project Number: 430211510

Client Reference: BP Station # 11116

EXTRACTABLE FUELS EPA 3510/8015

Batch: 70 18767

Samples: 70 0008476, 70 0008484

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Extractable Fuels, as Diesel	mg/L	0.05	ND

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Extractable Fuels, as Diesel	mg/L	0.05	1.00	69%	61%	12%

Mr. Brady Nagle
 Page 12

QUALITY CONTROL DATA

February 24, 1993
 PACE Project Number: 430211510

Client Reference: BP Station # 11116

OIL AND GREASE, SILICA GEL (LUFT)
 Batch: 70 18772
 Samples: 70 0008476, 70 0008484

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Oil and Grease, Gravimetric (SM5520)	mg/L	5.0	ND

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Oil and Grease, Gravimetric (SM5520)	mg/L	5.0	20.0	85%	80%	6%

Mr. Brady Nagle
 Page 13

QUALITY CONTROL DATA

February 24, 1993
 PACE Project Number: 430211510

Client Reference: BP Station # 11116

PURGEABLE FUELS AND AROMATICS
 Batch: 70 18765
 Samples: 70 0008514, 70 0008522

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	Dupl		
			Value	Recv	Recv	RPD
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	1000	99%	105%	5%
Benzene	ug/L	0.5	40.0	97%	99%	2%
Toluene	ug/L	0.5	40.0	96%	98%	2%
Ethylbenzene	ug/L	0.5	40.0	97%	99%	2%
Xylenes, Total	ug/L	0.5	120	96%	98%	2%

Mr. Brady Nagle
 Page 14

QUALITY CONTROL DATA

February 24, 1993
 PACE Project Number: 430211510

Client Reference: BP Station # 11116

PURGEABLE FUELS AND AROMATICS

Batch: 70 18784

Samples: 70 0008476, 70 0008484, 70 0008492, 70 0008506, 70 0008530

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	105%	103%	1%
Benzene	ug/L	0.5	40.0	110%	109%	0%
Toluene	ug/L	0.5	40.0	109%	108%	0%
Ethylbenzene	ug/L	0.5	40.0	110%	110%	0%
Xylenes, Total	ug/L	0.5	120	119%	119%	0%

Mr. Brady Nagle
Page 15

QUALITY CONTROL DATA

February 24, 1993
PACE Project Number: 430211510

Client Reference: BP Station # 11116

VOLATILE HALOCARBONS AND AROMATICS

Batch: 70 18948
Samples: 70 0008476, 70 0008484

METHOD BLANK:

Parameter	Units	MDL	Method Blank
VOLATILE HALOCARBONS BY EPA 8010			
Dichlorodifluoromethane	ug/L	2.0	ND
Chloromethane	ug/L	2.0	ND
Vinyl Chloride	ug/L	2.0	ND
Bromomethane	ug/L	2.0	ND
Chloroethane	ug/L	2.0	ND
Trichlorofluoromethane (Freon 11)	ug/L	2.0	ND
1,1-Dichloroethene	ug/L	0.5	ND
Methylene Chloride	ug/L	2.0	ND
trans-1,2-Dichloroethene	ug/L	0.5	ND
cis-1,2-Dichloroethene	ug/L	0.5	ND
1,1-Dichloroethane	ug/L	0.5	ND
Chloroform	ug/L	0.5	ND
1,1,1-Trichloroethane (TCA)	ug/L	0.5	ND
Carbon Tetrachloride	ug/L	0.5	ND
1,2-Dichloroethane (EDC)	ug/L	0.5	ND
Trichloroethene (TCE)	ug/L	0.5	ND
1,2-Dichloropropane	ug/L	0.5	ND
Bromodichloromethane	ug/L	0.5	ND
2-Chloroethylvinyl ether	ug/L	0.5	ND
cis-1,3-Dichloropropene	ug/L	0.5	ND
trans-1,3-Dichloropropene	ug/L	0.5	ND
1,1,2-Trichloroethane	ug/L	0.5	ND
Tetrachloroethene	ug/L	0.5	ND
Dibromochloromethane	ug/L	0.5	ND
Chlorobenzene	ug/L	0.5	ND
Bromoform	ug/L	0.5	ND
1,1,2,2-Tetrachloroethane	ug/L	0.5	ND
1,3-Dichlorobenzene	ug/L	0.5	ND
1,4-Dichlorobenzene	ug/L	0.5	ND
1,2-Dichlorobenzene	ug/L	0.5	ND
Bromochloromethane (Surrogate Recovery)			103%

Mr. Brady Nagle
 Page 16

QUALITY CONTROL DATA

February 24, 1993
 PACE Project Number: 430211510

Client Reference: BP Station # 11116

VOLATILE HALOCARBONS AND AROMATICS

Batch: 70 18948
 Samples: 70 0008476, 70 0008484

METHOD BLANK:

Parameter	Units	MDL	Method Blank
1,4-Dichlorobutane (Surrogate Recovery)			98%
VOLATILE AROMATICS BY EPA 8020			
Benzene	ug/L	0.3	ND
Toluene	ug/L	0.3	ND
Ethylbenzene	ug/L	0.5	ND
Xylenes, Total	ug/L	0.5	ND
Fluorobenzene (Surrogate Recovery)			104%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference	Dupl		
			Value	Recv	Recv	RPD
1,1-Dichloroethane	ug/L	0.5	10.00	74%	81%	9%
Trichloroethene (TCE)	ug/L	0.5	10.00	77%	76%	1%
trans-1,3-Dichloropropene	ug/L	0.5	3.8	84%	83%	1%
Tetrachloroethene	ug/L	0.5	10.00	93%	93%	0%
Benzene	ug/L	0.3	10.00	67%	70%	4%
Toluene	ug/L	0.3	10.00	74%	76%	2%
Xylenes, Total	ug/L	0.5	20.00	96%	95%	1%

Mr. Brady Nagle
Page 17

FOOTNOTES
for pages 11 through 16

February 24, 1993
PACE Project Number: 430211510

Client Reference: BP Station # 11116

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

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client ALISTO ENGINEERING
Address 1000 BURNETT AVE 420
CONCORD CA
Phone 510 798 4070

Report To: BRADY NAGLE
Bill To: BP OIL
P.O. # / Billing Reference 10-017
Project Name / No. BP11116 Dublin

Pace Client No. _____
Pace Project Manager _____
Pace Project No. 730211.510
*Requested Due Date: _____

Sampled By (PRINT) DAN BIRCH
Sampler Signature [Signature] Date Sampled 2-10-93

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	PRESERVATIVES				ANALYSES REQUEST		REMARKS	
						UNPRESERVED	H ₂ SO ₄	HNO ₃	VOA	PH6BTEX	TPH-DUSEL		
1	MW-1	1343	W	847.6	8					X	X	X	
2	MW-2	1315		49.2	3					X	X	X	
3	MW-3	1239		48.4	8					X	X	X	
4	AW-5	1459		50.6	3					X			
5	AW-6	1417		51.4	1					X			
6	QC-1	1419		52.2	0					X			
7	QC-2	1510		53.0	2					X			

COOLER NOS.	BAILERS	SHIPMENT METHOD		ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
		OUT / DATE	RETURNED / DATE					
511, 611					D. Birch BT's	Brady Nagle Alisto	2/11	9:24
Additional Comments:					D. Birch Alisto	Ed [unclear] Alisto	2/11	13:30
					Ed [unclear] Alisto	Ed [unclear] Alisto	2/11	16:00

VOAS PRESERVED FOR CLIENT - 02/11