BP OIL

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

January 4, 1996

Ms. Eva Chu:
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway Room 250
Alameda CA 94502-6577

RE: BP OIL FACILITY #11116
7194 Village Parkway
Dublin CA

Dear Ms. Chu:

Attached please find our **GROUNDWATER MONITORING AND SAMPLING REPORT, Dated November 8, 1995,** for the above referenced facility. Please note that a cumulative volume of 502 gallons of groundwater has been removed from well AW-6 through August 29, 1995.

You will also note that the enclosed report shows chemical data for samples collected from monitoring wells installed at the BP, Shell, Unocal, and Arco stations located at the intersection of Amador Valley Boulevard and Village Parkway. I believe the data demonstrates that further assessment does not appear to be necessary or warranted at the BP site. Please give me a call if you have concerns relative to the assessment performed. Plans for the following quarter include joint groundwater monitoring and sampling.

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

Respectfully,

Scott T. Hooton
Environmental Resources Management

STH:aa msword\ER\11116

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, 1575 Treat Blvd. Ste 201, Walnut Creek, CA 94598

Mr. Kyle Christie, ARCO Products Company, 2155 South Bascom Ave, Ste 202, Campbell, CA 95008

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 [illegible] WEST
7197 Village Parkway
Dublin, California

Project No. 10-017-05-001

① Consider ORC in AW-6
② Include quarterly MTBE
③ Discontinue sampling of all MWS except AW 5 and AW-6

Prepared for:

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

Prepared by:

Alisto Engineering Group
1575 Treat Boulevard, Suite 201
Walnut Creek, California

November 8, 1995

Ken Simas
Project Manager

Al Sevilla, P.E.
Principal

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

GROUNDWATER MONITORING AND SAMPLING REPORT

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

Project No. 10-017-05-001

November 8, 1995

INTRODUCTION

This report presents the results and findings of the August 29, 1995 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 on Figure 1.

FIELD PROCEDURES

Field activities were performed in accordance with the procedures and guidelines of the Alameda County Health Care Services Agency and the California Regional Water Quality Control Board, San Francisco Bay Region.

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

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, electrical conductivity, and dissolved oxygen. Groundwater samples were collected for laboratory analysis by lowering a bottom-fill, disposable bailer to just below the water level in the well. The samples were transferred from the bailer into laboratory-supplied containers. The water sampling field survey forms are presented in Appendix A

SAMPLING AND ANALYTICAL RESULTS

The results of monitoring and laboratory analysis of the groundwater samples collected for this and previous events are summarized in Table 1. The potentiometric groundwater elevation contour map is shown on Figure 2. The results of groundwater analysis are shown on Figure 3. The laboratory report and chain of custody record are presented in Appendix B.

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
BP OIL COMPANY SERVICE STATION NO. 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 (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	TOG (ug/l)	HVOC (ug/l)	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	325.52	---	---	---	---	---	---	---	---	---	---
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 1 (d)	11/18/94	335.17	8.65	326 52	---	---	---	---	---	---	---	---	---	---
MW-1	02/15/95	335.17	6 56	328.61	ND<50	---	ND<0 50	ND<0 50	ND<0 50	ND<1.0	---	---	---	ATI
MW 1	05/24/95	335.17	6.80	328.37	---	---	---	---	---	---	---	---	---	---
MW 1	08/29/95	335.17	8.72	326.45	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	8.7	ATI
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	60	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
MW 2 (d)	11/18/94	334.58	8.15	326 43	---	---	---	---	---	---	---	---	---	---
MW 2	02/15/95	334.58	5.97	328.61	ND<50	---	ND<0 50	ND<0.50	ND<0.50	ND<1.0	---	---	---	ATI
MW 2	05/24/95	334.58	6.50	328.08	---	---	---	---	---	---	---	---	---	---
MW 2	08/29/95	334.58	8.35	326 23	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	8.7	ATI

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 (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	TOG (ug/l)	HVOC (ug/l)	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
MW-3 (d)	11/18/94	335.13	8.62	326.51	---	---	---	---	---	---	---	---	---	---
MW-3	02/15/95	335.13	8.61	326.52	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	ATI
MW 3	05/24/95	335.13	6.83	328 30	---	---	---	---	---	---	---	---	---	---
MW 3	08/29/95	335.13	8.88	326.25	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	9.1	ATI
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	---	---	---	---	---	---	---	---	---	---	---	---
AW 4 (e)	05/21/93	333.41	---	---	---	---	---	---	---	---	---	---	---	---
AW-4 (e)	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
AW 4 (d)	11/18/94	333.41	6.80	326.61	ND<50	---	ND<0.5	ND<0.5	ND<0 5	ND<0.5	---	---	2.3	PACE
AW-4	02/15/95	333.41	4.91	328 50	ND<50	---	ND<0 50	ND<0.50	ND<0.50	ND<1.0	---	---	---	ATI
AW 4	05/24/95	333.41	5.32	328.09	ND<50	---	ND<0.50	ND<0 50	ND<0 50	ND<1.0	---	---	4.9	ATI
AW-4	08/29/95	333.41	7.26	326.15	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	9.1	ATI

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 (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	TOG (ug/l)	HVOC (ug/l)	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	7.89	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 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 5 (d)	11/18/94	334 81	8.20	326.61	640	---	ND<0.5	ND<0.5	ND<0 5	ND<0.5	---	---	4.1	PACE
QC 1 (d)(f)	11/18/94	---	---	---	660	---	ND<0 5	ND<0 5	ND<0.5	ND<0.5	---	---	---	PACE
AW 5	02/15/95	334.81	6.65	328.16	220	---	ND<0 50	ND<0.50	ND<0.50	ND<1 0	---	---	---	ATI
AW 5	05/24/95	334.81	7.27	327.54	220	---	ND<0.50	ND<0.50	ND<0 50	ND<1.0	---	---	5 2	ATI
AW 5	08/29/95	334.81	8 70	326.11	190	---	ND<1.0	ND<1.0	ND<1.0	ND<2 0	---	---	8 5	ATI
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 (f)	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 (f)	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 (f)	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 (f)	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 (f)	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 (f)	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 (f)	10/04/94	---	---	---	14000	---	2100	77	1100	790	---	---	---	PACE
AW-6 (d)	11/18/94	334.90	7.17	327.73	50000	---	550	8500	2500	14000	---	---	3.3	PACE
AW 6	02/15/95	334.90	6.19	328.71	25000	---	53	1400	1200	4400	---	---	---	ATI
QC-1 (f)	02/15/95	---	---	---	25000	---	53	1400	1200	4400	---	---	---	ATI
AW 6	05/24/95	334.90	6.87	328.03	14000	---	730	140	570	1100	---	---	5.7	ATI
QC 1 (f)	05/24/95	---	---	---	15000	---	750	140	570	1100	---	---	---	ATI
AW 6	08/29/95	334.90	8.38	326.52	8300	---	430	ND<10	340	40	---	---	8 9	ATI
QC-1 (f)	08/29/95	---	---	---	9400	---	430	12	360	37	---	---	---	ATI

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 (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	TOG (ug/l)	HVOC (ug/l)	DO (ppm)	LAB
QC 2 (g)	11/10/92	---	---	---	ND<50	---	ND<0 5	ND<0.5	ND<0 5	ND<0 5	---	---	---	ANA
QC 2 (g)	02/10/93	---	---	---	ND<50	---	ND<0.5	ND<0 5	ND<0.5	ND<0.5	---	---	---	PACE
QC-2 (g)	05/21/93	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
QC 2 (g)	08/12/93	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
QC-2 (g)	11/12/93	---	---	---	ND<50	---	ND<0.5	ND<0 5	ND<0.5	ND<0.5	---	---	---	PACE
QC 2 (g)	02/11/94	---	---	---	ND<50	---	ND<0 5	ND<0.5	ND<0 5	ND<0.5	---	---	---	PACE
QC 2 (g)	06/20/94	---	---	---	ND<50	---	ND<0.5	ND<0 5	ND<0.5	ND<0.5	---	---	---	PACE
QC 2 (g)	10/04/94	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
QC 2 (d)(g)	11/18/94	---	---	---	ND<50	---	ND<0 5	ND<0.5	ND<0 5	ND<0 5	---	---	---	PACE
QC 2 (g)	02/15/95	---	---	---	ND<50	---	ND<0 50	ND<0.50	ND<0.50	ND<1.0	---	---	---	ATI
QC 2 (g)	05/24/95	---	---	---	ND<50	---	ND<0.50	ND<0 50	ND<0.50	ND<1.0	---	---	---	ATI
QC 2 (g)	08/29/95	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	ATI

ABBREVIATIONS

TPH G	Total petroleum hydrocarbons as gasoline
TPH D	Total petroleum hydrocarbons as diesel
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total xylenes
TOG	Total oil and grease
HVOC	Halogenated volatile organic compounds
DO	Dissolved oxygen
ug/l	Micrograms per liter
ppm	Parts per million
ND	Not detected above reported detection limit
---	Not applicable/analyzed/measured
ANA	Anametrix, Inc
SUP	Superior Analytical Laboratory
SEQ	Sequoia Analytical laboratory
PACE	Pace, Inc
ATI	Analytical Technologies, 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) Groundwater samples collected on November 21,1994.

(e) Well buried.

(f) Blind duplicate.

(g) Travel blank.

I \10\10-01\017 5 1\TAWQ2

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 SAMPLING/ MONITORING	CASING ELEVATION (Feet)	(a)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (Feet)	(b)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	LAB
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-1	02/11/94	336.07	(c)	9.72	326.35		---	---	---	---	---	---	---
MW-1	05/17/94	336.07		9 26	326.81		---	---	---	---	---	---	---
MW-1	08/25/94	336.07		10.58	325.49		---	---	---	---	---	---	---
MW-1	11/18/94	336.07		9.69	326.38		---	---	---	---	---	---	---
MW-1	02/15/95	336.07		7.80	328.27		---	---	---	---	---	---	---
MW-1	05/24/95	336.07		8.98	327.09		1300	---	28	ND<0.50	15	ND<0.50	SEQ
MW-1	08/25/95	336.07		9.68	326.39		530	2300	16	ND<0.50	2.2	13	SEQ
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-2	02/11/94	336.78	(c)	9.85	326.93		---	---	---	---	---	---	---
MW-2	05/17/94	336.78		9.31	327.47		---	---	---	---	---	---	---
MW-2	08/25/94	336.78		10.75	326 03		---	---	---	---	---	---	---
MW-2	11/18/94	336.78		9.95	326.83		---	---	---	---	---	---	---
MW-2	02/15/95	336.78		7.58	329.20		---	---	---	---	---	---	---
MW-2	05/24/95	336.78		8.33	328.45		---	---	---	---	---	---	---
MW-2	08/25/95	336.78		9.76	327.02		---	---	---	---	---	---	---
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-3	02/11/94	336.98	(c)	10 01	326.97		---	---	---	---	---	---	---
MW-3	05/17/94	336.98		9.49	327.49		---	---	---	---	---	---	---
MW-3	08/25/94	336.98		10.93	326.05		---	---	---	---	---	---	---
MW-3	11/18/94	336.98		10.15	326.83		---	---	---	---	---	---	---
MW-3	02/15/95	336.98		7.62	329.36		---	---	---	---	---	---	---
MW-3	05/24/95	336.98		8.26	328.72		---	---	---	---	---	---	---
MW-3	08/25/95	336.98		10.03	326.95		---	---	---	---	---	---	---

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 SAMPLING/ MONITORING	CASING ELEVATION (Feet)	(a)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (Feet)	(b)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	LAB
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		---	---	---	---	---	---	---
MW-4	02/11/94	336.43	(c)	10.10	326.33		---	---	---	---	---	---	---
MW-4	05/17/94	336.43	(c)	9.63	326 80		---	---	---	---	---	---	---
MW-4	08/25/94	336.43	(c)	10.94	325.49		---	---	---	---	---	---	---
MW-4	11/18/94	336.43	(c)	10.10	326.33		---	---	---	---	---	---	---
MW-4	02/15/95	336.43	(c)	8.12	328.31		---	---	---	---	---	---	---
MW-4	05/24/95	336.43	(c)	8 68	327.75		---	---	---	---	---	---	---
MW-4	08/25/95	336.43	(c)	10.08	326.35		---	---	---	---	---	---	---
MW-5	02/11/94	335.96	(c)	10.08	325 88		---	---	---	---	---	---	---
MW-5	05/17/94	335.96	(c)	9.24	326.72		---	---	---	---	---	---	---
MW-5	08/25/94	335.96	(c)	10.43	325.53		---	---	---	---	---	---	---
MW-5	11/18/94	335.96	(c)	10.09	325.87		---	---	---	---	---	---	---
MW-5	02/15/95	335.96	(c)	7.76	328.20		---	---	---	---	---	---	---
MW-5	05/24/95	335.96	(c)	7.98	327 98		14000	---	2200	ND<0.50	2200	ND<0 50	SEQ
MW-5	08/25/95	335.96	(c)	9.57	326.39		3100	---	43	ND<0.50	590	8.4	SEQ

ABBREVIATIONS

TPH-G	Total petroleum hydrocarbons as gasoline
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total xylenes
ug/l	Micrograms per liter
ND	Not detected above reported detection limit
---	Not sampled/analyzed/available
SEQ	Sequoia Analytical laboratory

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) Top of casing elevations surveyed to the nearest 0.01 foot relative to a brass disc stamped VL-PKAMVY 1997, on the westerly center island of Amador Valley Boulevard and Village Parkway, with an elevation of 337.40 feet above mean sea level.

E:\0\10-017\017-5-1B WQ2

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 SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	LAB
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-1	02/11/94	334.83	8.62	326.21	---	---	---	---	---	---
MW-1	05/17/94	334.83	7.96	326 87	---	---	---	---	---	---
MW-1	08/25/94	334.83	9.24	325.59	---	---	---	---	---	---
MW-1	11/23/94	334.83	8.74	326.09	---	---	---	---	---	---
MW-1	02/15/95	334.83	6 84	327.99	---	---	---	---	---	---
MW-1	05/24/95	334.83	7.91	326.92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NET
MW-1	08/25/95	334.83	8.11	326.72	ND<50	ND<0.5	ND<0 5	ND<0.5	ND<0 5	NET
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-2	02/11/94	336.96	11 04	325.92	---	---	---	---	---	---
MW-2	05/17/94	336 96	10.29	326 67	---	---	---	---	---	---
MW-2	08/25/94	336.96	11.29	325.67	---	---	---	---	---	---
MW-2	11/23/94	336.96	10.92	326.04	---	---	---	---	---	---
MW-2	02/15/95	336.96	8.90	328.06	---	---	---	---	---	---
MW-2	05/24/95	336.96	10.02	326.94	70	3.9	ND<0.5	1.4	ND<0.5	NET
MW-2	08/25/95	336.96	10.24	326.72	ND<50	20	ND<0.5	ND<0.5	ND<0.5	NET
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-3	02/11/94	336.93	10.68	326.25	---	---	---	---	---	---
MW-3	05/17/94	336.93	9.92	327.01	---	---	---	---	---	---
MW-3	08/25/94	336.93	11.30	325.63	---	---	---	---	---	---
MW-3	11/23/94	336.93	10.48	326.45	---	---	---	---	---	---
MW-3	02/15/95	336.93	8.35	328.58	---	---	---	---	---	---
MW-3	05/24/95	336.93	9.67	327.26	380	200	1.7	ND<0.5	0.6	NET
MW-3	08/25/95	336.93	9.36	327.57	70	22	ND<0.5	4.1	ND<0.5	NET

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 SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	LAB
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-4	02/11/94	337.14	10.71	326.43	---	---	---	---	---	---
MW-4	05/17/94	337.14	10.30	326.84	---	---	---	---	---	---
MW-4	08/25/94	337.14	10.84	326.30	---	---	---	---	---	---
MW-4	11/23/94	337.14	10.78	326.36	---	---	---	---	---	---
MW-4	02/15/95	337.14	9.49	327.65	---	---	---	---	---	---
MW-4	05/24/95	337.14	10.73	326.41	---	---	---	---	---	---
MW-4	08/25/95	337.14	10.22	326.92	ND<50	2.4	ND<0.5	ND<0.5	ND<0.5	NET
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-5	02/11/94	334.96	8.97	325.99	---	---	---	---	---	---
MW-5	05/17/94	334.96	8.12	326.84	---	---	---	---	---	---
MW-5	08/25/94	334.96	9.19	325.77	---	---	---	---	---	---
MW-5	11/23/94	334.96	8.78	326.18	---	---	---	---	---	---
MW-5	02/15/95	334.96	6.88	328.08	---	---	---	---	---	---
MW-5	05/24/95	334.96	8.04	326.92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NET
MW-5	08/25/95	334.96	8.34	326.62	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NET
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 6	02/11/94	335.42	9.02	326.40	---	---	---	---	---	---
MW 6	05/17/94	335.42	8.58	326.84	---	---	---	---	---	---
MW-6	08/25/94	335.42	9.79	325.63	---	---	---	---	---	---
MW-6	11/23/94	335.42	9.20	326.22	---	---	---	---	---	---
MW-6	02/15/95	335.42	7.36	328.06	---	---	---	---	---	---
MW 6	05/24/95	335.42	8.80	326.62	280	22	ND<0.5	ND<0.5	ND<0.5	NET
QC-1 (c)	05/24/95	---	---	---	330	25	ND<0.5	ND<0.5	ND<0.5	NET
MW-6	08/25/95	335.42	8.50	326.92	150	16	3.2	9.1	4.0	NET

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 SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	LAB
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-7	02/11/94	333.23	6.12	327.11	---	---	---	---	---	---
MW-7	05/17/94	333.23	6.06	327.17	---	---	---	---	---	---
MW-7	08/25/94	333.23	6.76	326.47	---	---	---	---	---	---
MW-7	11/23/94	333.23	6.75	326.48	---	---	---	---	---	---
MW-7	02/15/95	333.23	5.40	327.83	---	---	---	---	---	---
MW-7	05/24/95	333.23	6.82	326.41	---	---	---	---	---	---
MW-7	08/25/95	333.23	6.46	326.77	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NET
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	6.65	329.15	---	---	---	---	---	---
MW-8	08/12/93	335.80	6.83	328.97	---	---	---	---	---	---
MW-8	11/11/93	335.80	6.90	328.90	---	---	---	---	---	---
MW-8	02/11/94	335.80	6.12	329.68	---	---	---	---	---	---
MW-8	05/17/94	335.80	6.06	329.74	---	---	---	---	---	---
MW-8	08/25/94	335.80	6.76	329.04	---	---	---	---	---	---
MW-8	11/23/94	335.80	6.75	329.05	---	---	---	---	---	---
MW-8	02/15/95	335.80	5.40	330.40	---	---	---	---	---	---
MW-8	05/24/95	335.80	7.56	328.24	---	---	---	---	---	---
MW-8	08/25/95	335.80	8.60	327.20	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NET
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-9	02/11/94	334.57	8.88	325.69	---	---	---	---	---	---
MW-9	05/17/94	334.57	8.06	326.51	---	---	---	---	---	---
MW-9	08/25/94	334.57	8.79	325.78	---	---	---	---	---	---
MW-9	11/23/94	334.57	8.65	325.92	---	---	---	---	---	---
MW-9	02/15/95	334.57	7.36	327.21	---	---	---	---	---	---
MW-9	05/24/95	334.57	7.75	326.82	---	---	---	---	---	---
MW-9	08/25/95	334.57	7.90	326.67	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NET

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 SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	LAB
MW-10 (d)	---	---	---	---	---	---	---	---	---	---
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-11	02/11/94	334.20	8.21	325.99	---	---	---	---	---	---
MW-11	05/17/94	334.20	7.61	326.59	---	---	---	---	---	---
MW-11	08/25/94	334.20	8.68	325.52	---	---	---	---	---	---
MW-11	11/23/94	334.20	8.27	325.93	---	---	---	---	---	---
MW-11	02/15/95	334.20	6.46	327.74	---	---	---	---	---	---
MW-11	05/24/95	334.20	7.69	326.51	---	---	---	---	---	---
MW-11	08/25/95	334.20	7.70	326.50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NET
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 (e)	05/10/93	332.53	---	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-12	02/04/94	332.53	7.18	325.35	---	---	---	---	---	---
MW-12	05/17/94	332.53	6.80	325.73	---	---	---	---	---	---
MW-12	08/25/94	332.53	7.24	325.29	---	---	---	---	---	---
MW-12	11/23/94	332.53	7.16	325.37	---	---	---	---	---	---
MW-12	02/15/95	332.53	5.16	327.37	---	---	---	---	---	---
MW-12	05/24/95	332.53	6.95	325.58	---	---	---	---	---	---
MW-12	08/25/95	332.53	5.63	326.90	---	---	---	---	---	---

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 SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	LAB
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	---	---	---	---	---	---
MW-13	02/11/94	335.64	9.12	326.52	---	---	---	---	---	---
MW-13	05/17/94	335.64	8.62	327.02	---	---	---	---	---	---
MW-13	08/25/94	335.64	9.32	326.32	---	---	---	---	---	---
MW-13	11/23/94	335.64	9.37	326.27	---	---	---	---	---	---
MW-13	02/15/95	335.64	8.42	327.22	---	---	---	---	---	---
MW-13	05/24/95	335.64	9.90	325.74	230	32	1.2	1.1	2.5	NET
MW-13	08/25/95	335.64	8.32	327.32	930	320	17	48	36	NET
RW-1 (f)	02/11/94	336.19	9.98	326.21	---	---	---	---	---	---
RW-1 (f)	05/17/94	336.19	9.29	326.90	---	---	---	---	---	---
RW-1 (f)	08/25/94	336.19	10.56	325.63	---	---	---	---	---	---
RW-1 (f)	11/23/94	336.19	10.07	326.12	---	---	---	---	---	---
RW-1 (f)	02/15/95	336.19	8.20	327.99	---	---	---	---	---	---
RW-1 (f)	05/24/95	336.19	9.66	326.53	---	---	---	---	---	---
RW-1 (f)	08/25/95	336.19	9.37	326.82	---	---	---	---	---	---
QC-2 (g)	05/24/95	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NET

ABBREVIATIONS

TPH-G	Total petroleum hydrocarbons as gasoline
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total xylenes
ug/l	Micrograms per liter
ND	Not detected above reported detection limit
---	Not analyzed/available
NET	National Environmental Testing, Inc.

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) Blind duplicate.

(d) Monitoring Well MW-10 was destroyed.

(e) Well inaccessible due to parked car.

(f) Location of well is unknown.

(g) Trip blank.

E:\0\10-017\017-5-1C WQ2

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)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	LAB
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	336.56	---	---	---	---	---	---	---	---	---
MW-1	11/11/93	336.56	10.70	325.86	---	---	---	---	---	---	---
MW-1	02/11/94	336.56	10 35	326.21	---	---	---	---	---	---	---
MW-1	05/27/94	336.56	10.40	326.16	---	---	---	---	---	---	---
MW-1 (c)	08/25/94	336.56	---	---	---	---	---	---	---	---	---
MW-1	11/18/94	336.56	10 25	326.31	---	---	---	---	---	---	---
MW-1	02/15/95	336.56	8.53	328.03	---	---	---	---	---	---	---
MW-1	05/24/95	336.56	9.00	327 56	---	---	---	---	---	---	---
MW-1	08/25/95	336 56	6.93	329.63	780	2	ND<1	2	2	2500	CAS
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	334.80	---	---	---	---	---	---	---	---	---
MW-2	11/11/93	334.80	9 02	325.78	---	---	---	---	---	---	---
MW-2	02/11/94	334.80	8 59	326 21	---	---	---	---	---	---	---
MW-2	05/27/94	334.80	8.51	326.29	---	---	---	---	---	---	---
MW 2 (c)	08/25/94	334.80	---	---	---	---	---	---	---	---	---
MW-2	11/18/94	334.80	8.70	326.10	---	---	---	---	---	---	---
MW-2	02/15/95	334.80	6.75	328.05	---	---	---	---	---	---	---
MW-2	05/24/95	334.80	6.88	327.92	---	---	---	---	---	---	---
MW-2	08/25/95	334.80	7.91	326.89	150	6	ND<1	1	ND<1	2700	CAS
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	335.53	---	---	---	---	---	---	---	---	---
MW-3	11/11/93	335.53	9.81	325.72	---	---	---	---	---	---	---
MW-3	02/11/94	335.53	9 60	325.93	---	---	---	---	---	---	---
MW-3	05/27/94	335.53	9.51	326.02	---	---	---	---	---	---	---
MW-3 (c)	08/25/94	335.53	---	---	---	---	---	---	---	---	---
MW-3	11/18/94	335.53	9.79	325.74	---	---	---	---	---	---	---
MW-3	02/15/95	335.53	8.55	326 98	---	---	---	---	---	---	---
MW-3	05/24/95	335.53	8.17	327.36	---	---	---	---	---	---	---
MW-3	08/25/95	335.53	9 27	326.26	210	3.6	ND<0.5	2.9	0.6	20000	CAS

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)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	LAB
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	334.22	---	---	---	---	---	---	---	---	---
MW-4	11/11/93	334.22	8.48	325.74	---	---	---	---	---	---	---
MW-4	02/11/94	334.22	8.15	326.07	---	---	---	---	---	---	---
MW-4	05/27/94	334 22	7.83	326.39	---	---	---	---	---	---	---
MW-4 (c)	08/25/94	334 22	---	---	---	---	---	---	---	---	---
MW-4	11/18/94	334.22	8.31	325.91	---	---	---	---	---	---	---
MW-4	02/15/95	334.22	7 85	326.37	---	---	---	---	---	---	---
MW-4	05/24/95	334.22	6.68	327.54	---	---	---	---	---	---	---
MW-4	08/25/95	334 22	6.93	327.29	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	CAS
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	335.87	---	---	---	---	---	---	---	---	---
MW-5	11/11/93	335.87	10.09	325.78	---	---	---	---	---	---	---
MW-5	02/11/94	335.87	9.63	326.24	---	---	---	---	---	---	---
MW-5	05/27/94	335 87	9.60	326.27	---	---	---	---	---	---	---
MW-5 (c)	08/25/94	335.87	---	---	---	---	---	---	---	---	---
MW 5	11/18/94	335.87	9 65	326.22	---	---	---	---	---	---	---
MW-5	02/15/95	335.87	7.80	328.07	---	---	---	---	---	---	---
MW-5	05/24/95	335.87	8.10	327.77	---	---	---	---	---	---	---
MW-5	08/25/95	335.87	9.43	326.44	---	---	---	---	---	---	---
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	335.84	---	---	---	---	---	---	---	---	---
MW 6	11/11/93	335.84	10.02	325.82	---	---	---	---	---	---	---
MW-6	02/11/94	335.84	9.66	326.18	---	---	---	---	---	---	---
MW-6	05/27/94	335.84	9.69	326.15	---	---	---	---	---	---	---
MW 6 (c)	08/25/94	335.84	---	---	---	---	---	---	---	---	---
MW-6	11/18/94	335.84	9.54	326.30	---	---	---	---	---	---	---
MW-6	02/15/95	335.84	7.81	328.03	---	---	---	---	---	---	---
MW-6	05/24/95	335.84	8.35	327.49	---	---	---	---	---	---	---
MW-6	08/25/95	335.84	9.71	326.13	---	---	---	---	---	---	---

TPH-G Total petroleum hydrocarbons as gasoline
B Benzene
T Toluene
E Ethylbenzene
X Total xylenes
MTBE Methyl T-Butyl Ether
(ug/l) Micrograms per liter
CAS Columbia Analytical Services, Inc.

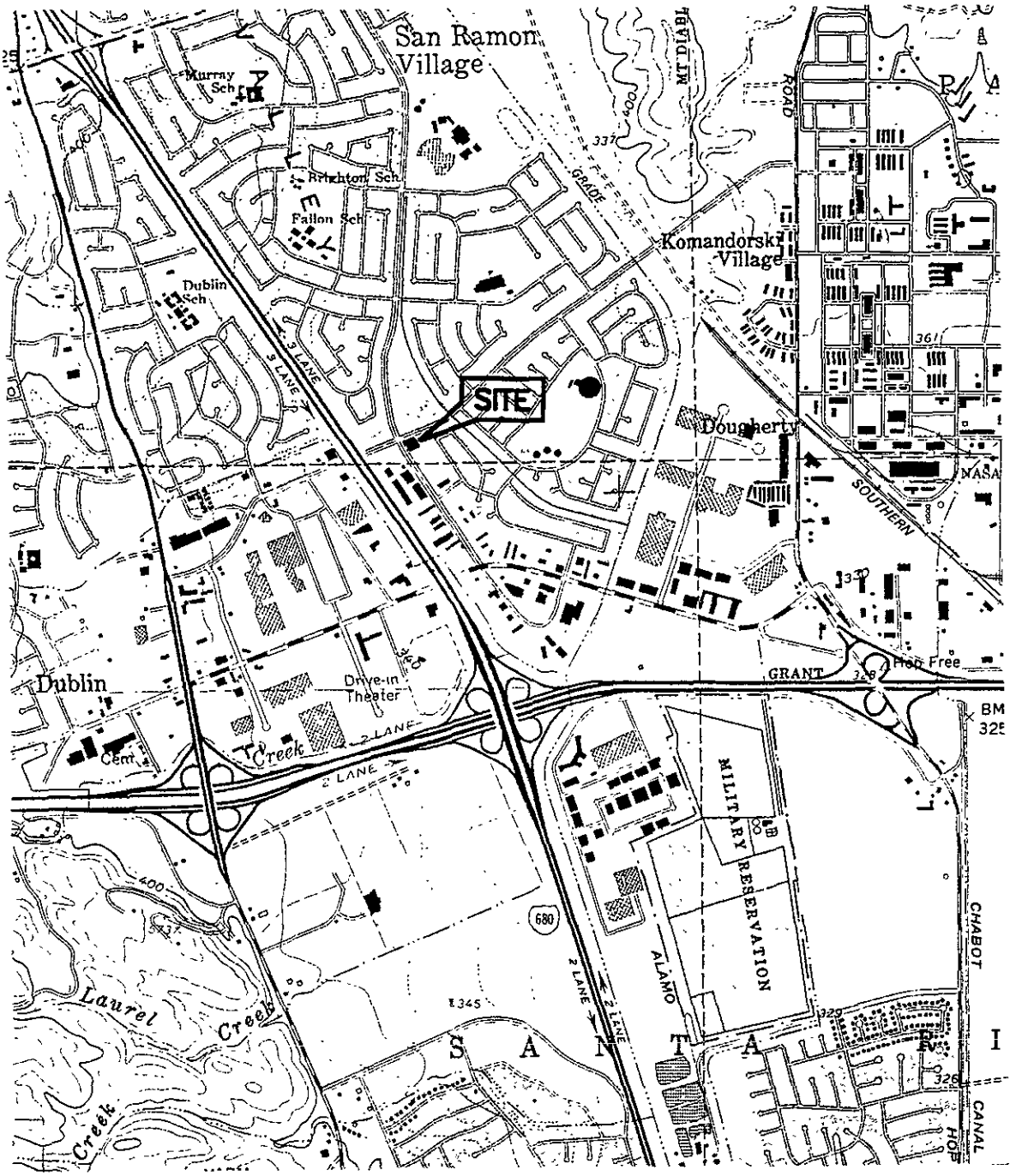
NOTES:

(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) Data not available.

F:\0\10-017\017-5-1D.WQ2



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

N

0 1000' 2000'

FIGURE 1

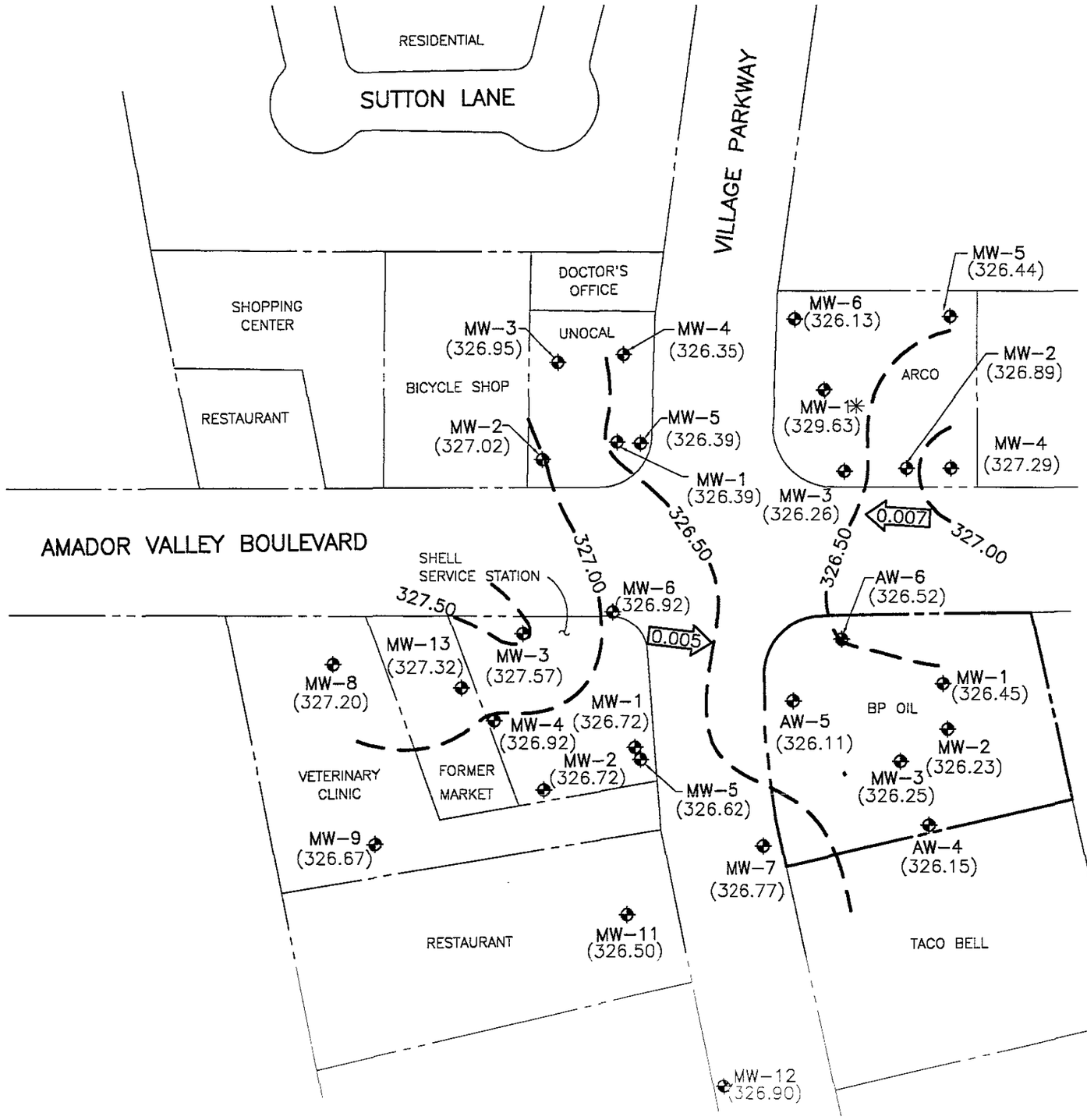
SITE VICINITY MAP

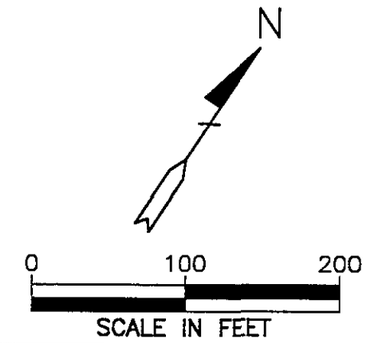
BP OIL SERVICE STATION NO. 11116
7197 VILLAGE PARKWAY
DUBLIN, CALIFORNIA

PROJECT NO. 10-017

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

10017B DWG 7 20 93 KH 1-1





LEGEND

- ◆ GROUNDWATER MONITORING WELL
- (326.45) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- 326.50 GROUNDWATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL (CONTOUR INTERVAL–0.50 FOOT)
- 0.005 CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE IN FOOT PER FOOT
- * GROUNDWATER ELEVATION NOT USED IN PREPARING CONTOURS

FIGURE 2

POTENTIOMETRIC GROUNDWATER ELEVATION CONTOUR MAP

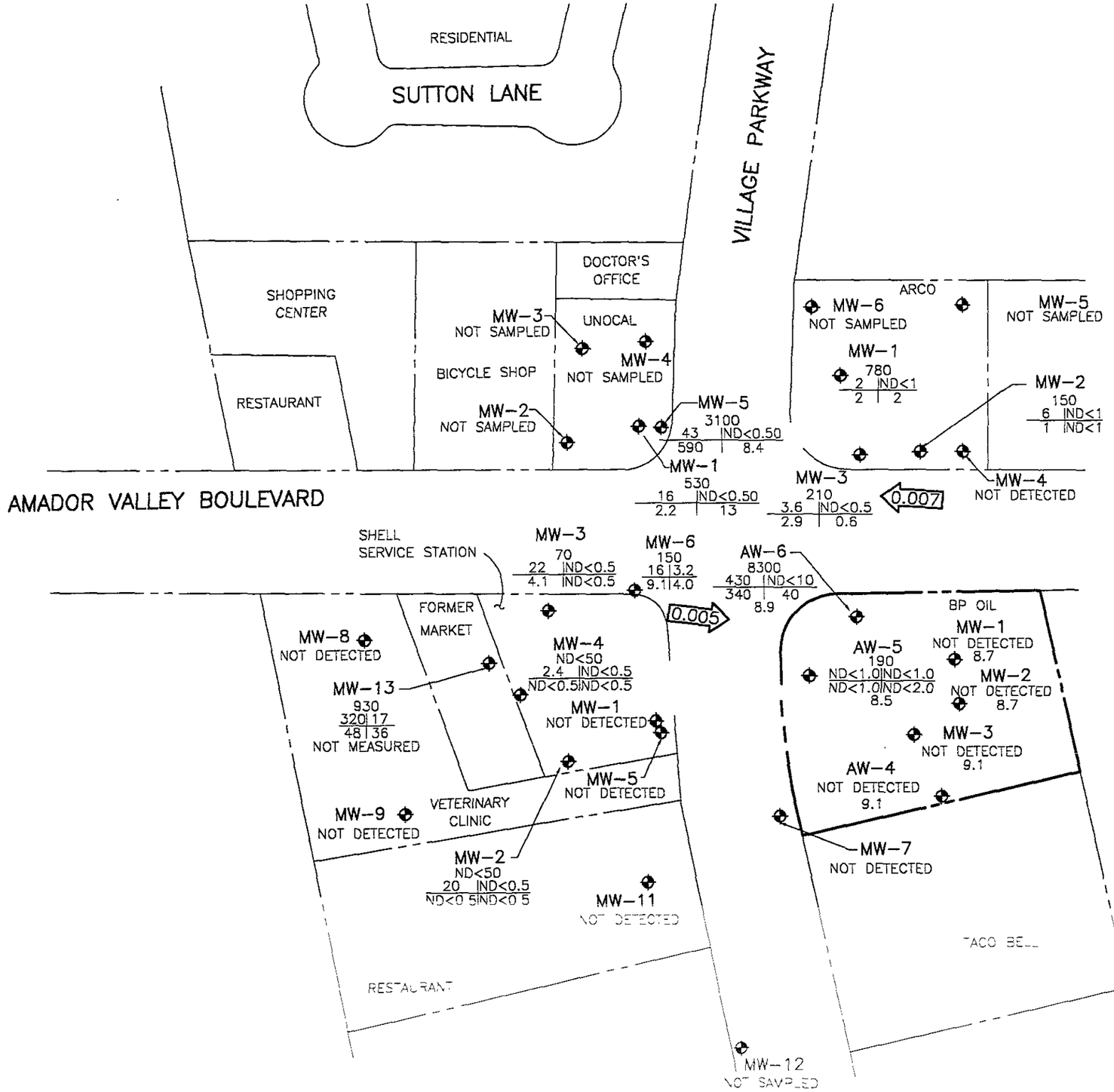
AUGUST 25, 1995

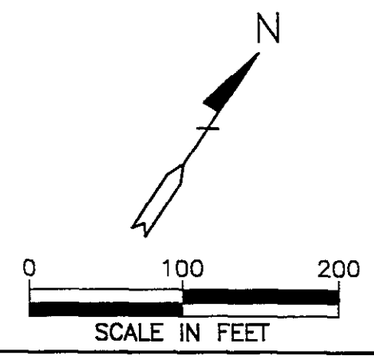
BP OIL SERVICE STATION NO. 11116
7197 VILLAGE PARKWAY
DUBLIN, CALIFORNIA

PROJECT NO. 10–017

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

10017D.DWG 11/6/95 MAP 1=100





LEGEND

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

FIGURE 3

CONCENTRATIONS OF PETROLEUM HYDROCARBONS IN GROUNDWATER

AUGUST 25, 1995

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

PROJECT NO. 10-017

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

APPENDIX A

WATER SAMPLING FIELD SURVEY FORMS

ALISTO

ENGINEERING

GROUP

1575 TREAT BOULEVARD, SUITE 201
WALNUT CREEK CA 94598 (510) 295-1650 FAX 295-1823

Field Report / Sampling Data Sheet

Project No. 10-017-05-001 Date: 8/29/95
Address 7197 Village Parkway Day: M (T) W TH F
Contract No. Pending City: Dublin
Station No. BP 11116 Sampler: DC

WELL ID	SAMPLE ID	DEPTH TO WATER	TOTAL DEPTH	PRODUCT THICKNESS	TIME	COMMENTS:
MW-1	5-1	8.72	25.90	⌀	0949	
MW-2	5-3	8.35	25.45		0948	
MW-3	5-4	8.88	25.90		0946	
AW-4	5-2	7.26	34.15		0947	
AW-5	5-5	8.20	32.90		0951	
AW-6	5-6	8.38	16.50	↓	0957	

FIELD INSTRUMENT CALIBRATION DATA

Ph METER Hydac 4.00 ___ 7.00 ✓ 10.00 ✓ TEMPERATURE COMPENSATED (Y) N TIME 1030 WEATHER Sunny

D.O. METER YSI ZERO d.O. SOLUTION ✓ BAROMETRIC PRESSURE 762 TEMP 72°F

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

Well ID MW-3 | Depth to Water 8.88 | Diam 2" | Cap/Lock OK | Product Dept ⌀ | Irridensence Y (N)

Total Depth - Water Level= x Well Vol. Factor= x#vol. to Purge PurgeVol.

25.90 - 8.88 = 17.02 x .16 = 2.72 x 3 = 8.17

Purge Method: X Surface Pump ODisp.Tube OWinch ODisp. Bailer(s)___ OSys Port

Comments:

Gal.	Time	Temp °F	pH	E.C.	D.O.
3	1034	72.8	7.44	1.60	8.5
6	1037	74.2	7.31	1.58	
8.25	1040	73.7	7.30	1.52	9.1

O EPA 601___ X TPH-G/BTEX Hydac O TPH Diesel___ O TOG 5520 ___

TIME/SAMPLE ID: 1043 / 5-1

Well ID AW-4 | Depth to Water 7.26 | Diam 4" | Cap/Lock OK | Product Dept ⌀ | Irridensence Y (N)

Total Depth - Water Level= x Well Vol. Factor= x#vol. to Purge PurgeVol.

34.15 - 7.26 = 26.89 x .65 = 17.47 x 3 = 52.44

Purge Method: X Surface Pump ODisp.Tube OWinch ODisp. Bailer(s)___ OSys Port

Comments:

Gal.	Time	Temp °F	pH	E.C.	D.O.
20	1047	71.0	7.74	1.12	8.8
40	1053	69.5	7.58	1.12	
52.50	1058	70.4	7.47	1.11	9.1

O EPA 601___ X TPH-G/BTEX Hydac O TPH Diesel___ O TOG 5520 ___

TIME/SAMPLE ID: 1100 / 5-2

Well ID MW-2 | Depth to Water 8.35 | Diam 2" | Cap/Lock OK | Product Dept ⌀ | Irridensence Y (N)

Total Depth - Water Level= x Well Vol. Factor= x#vol. to Purge PurgeVol.

25.45 - 8.35 = 17.1 x .16 = 2.74 x 3 = 8.21

Purge Method: X Surface Pump ODisp.Tube OWinch ODisp. Bailer(s)___ OSys Port

Comments:

Gal.	Time	Temp °F	pH	E.C.	D.O.
3	1105	72.7	7.46	1.26	8.7
6	1108	73.1	7.33	1.36	
8.25	1111	72.7	7.33	1.30	8.7

O EPA 601___ X TPH-G/BTEX Hydac O TPH Diesel___ O TOG 5520 ___

TIME/SAMPLE ID: 1114 / 5-3

ALISTO

Field Report / Sampling Data Sheet

ENGINEERING
GROUP
1575 TREAT BOULEVARD, SUITE 201
WALNUT CREEK CA 94598 (510) 295-1650 FAX 295-1823

Project No. 10-017-05-001 Date: 8/29/95
Address 7197 Village Parkway Day: M T W TH F
Contract No. Pending City: Dublin
Station No. BP 11116 Sampler: DC

Well ID	Depth to Water	Diam	Cap/Lock	Product Dept	Irridensence	Gal.	Time	Temp *F	pH	E.C.	D.O.
MW-1	8.72	2"	OL	Φ	Y (N)	3	1117	72.4	7.44	1.13	8.5
						6	1120	73.9	7.32	1.09	
						8.25	1122	73.2	7.29	1.08	8.7

Total Depth - Water Level= x Well Vol. Factor= x#vol. to Purge PurgeVol.
25.80 - 8.72 = 17.08 x .16 = 2.73 x 3 = 8.20
Purge Method: (X) Surface Pump ODisp.Tube OWinch ODisp. Bailer(s)___ OSys Port
Comments:

O EPA 601____
(X) TPH-G/BTEX H
O TPH Diesel____
O TOG 5520 ___
TIME/SAMPLE ID
1124 / S4

Well ID	Depth to Water	Diam	Cap/Lock	Product Dept	Irridensence	Gal.	Time	Temp *F	pH	E.C.	D.O.
AW-5	8.70	4"	OL	Φ	Y (N)	15	1130	72.4	7.59	0.36	8.3
						30	1136	74.3	7.52	0.27	
						47.25	1141	74.0	7.52	0.29	8.5

Total Depth - Water Level= x Well Vol. Factor= x#vol. to Purge PurgeVol.
32.90 - 8.70 = 24.20 x .65 = 15.73 x 3 = 47.19
Purge Method (X) Surface Pump ODisp.Tube OWinch ODisp. Bailer(s)___ OSys Port
Comments:

O EPA 601____
(X) TPH-G/BTEX H
O TPH Diesel____
O TOG 5520 ___
TIME/SAMPLE ID
1146 / S-5

Well ID	Depth to Water	Diam	Cap/Lock	Product Dept	Irridensence	Gal.	Time	Temp *F	pH	E.C.	D.O.
AW-6	8.38	4"	OL	Φ	Y (N)	5	1149	74.1	7.53	0.96	8.6
						10	1153	75.6	7.24	1.97	
						16	1200	76.1	7.19	1.90	8.9

Total Depth - Water Level= x Well Vol. Factor= x#vol. to Purge PurgeVol.
16.50 - 8.38 = 8.12 x .65 = 5.28 x 3 = 15.83
Purge Method (X) Surface Pump ODisp.Tube OWinch ODisp. Bailer(s)___ OSys Port
Comments: Q1 - 1 from this well (S-6)

O EPA 601____
O TPH-G/BTEX___
O TPH Diesel____
O TOG 5520 ___
TIME/SAMPLE ID
1202 / S-6

APPENDIX B

LABORATORY REPORT AND CHAIN OF CUSTODY RECORD

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

ATI I.D.: 508297

September 13, 1995

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

Project Name: BP SITE#11116/7179 VILLAGE PKWY DUBLIN, CA
Project # : G317853/10-017-05-001

Attention: BILL HOWELL

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

Date Received	Quantity	Matrix
August 31, 1995	8	WATER

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

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

GARY STEWART
VOLATILES SUPERVISOR

ALAN J. KLEINSCHMIDT
LABORATORY MANAGER

SAMPLE CROSS REFERENCE

Client : ALISTO ENGINEERING
Project # : G317853/10-017-05-001
Project Name: BP SITE#11116/7179 VILLAGE PKWY DUBLIN, CA

Report Date: September 13, 1995
ATI I.D. : 508297

ATI #	Client Description	Matrix	Date Collected
1	S-1	WATER	29-AUG-95
2	S-2	WATER	29-AUG-95
3	S-3	WATER	29-AUG-95
4	S-4	WATER	29-AUG-95
5	S-5	WATER	29-AUG-95
6	S-6	WATER	29-AUG-95
7	S-7	WATER	29-AUG-95
8	S-8	WATER	29-AUG-95

---TOTALS---

Matrix	# Samples
WATER	8

ATI STANDARD DISPOSAL PRACTICE

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

ANALYTICAL SCHEDULE

Client : ALISTO ENGINEERING
Project # : G317853/10-017-05-001
Project Name: BP SITE#11116/7179 VILLAGE PKWY DUBLIN, CA

ATI I.D.: 50829

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

GAS CHROMATOGRAPHY RESULTS

Test : MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)
Client : ALISTO ENGINEERING ATI I.D. : 508297
Project # : G317853/10-017-05-001
Project Name: BP SITE#11116/7179 VILLAGE PKWY DUBLIN, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
1	S-1	WATER	29-AUG-95	N/A	11-SEP-95	1.00
2	S-2	WATER	29-AUG-95	N/A	11-SEP-95	1.00
3	S-3	WATER	29-AUG-95	N/A	12-SEP-95	1.00

Parameter	Units	1	2	3
METHYL T-BUTYL ETHER	UG/L	<5.0	<5.0	<5.0
BENZENE	UG/L	<0.50	<0.50	<0.50
TOLUENE	UG/L	<0.50	<0.50	<0.50
ETHYLBENZENE	UG/L	<0.50	<0.50	<0.50
XYLENES (TOTAL)	UG/L	<1.0	<1.0	<1.0
FUEL HYDROCARBONS	UG/L	<50	<50	<50
HYDROCARBON RANGE		C6-C12	C6-C12	C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE	GASOLINE	GASOLINE
SURROGATES				
TRIFLUOROTOLUENE	%	90	92	90

GAS CHROMATOGRAPHY RESULTS

Test : MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)
Client : ALISTO ENGINEERING ATI I.D. : 508297
Project # : G317853/10-017-05-001
Project Name: BP SITE#11116/7179 VILLAGE PKWY DUBLIN, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
4	S-4	WATER	29-AUG-95	N/A	12-SEP-95	1.00
5	S-5	WATER	29-AUG-95	N/A	12-SEP-95	2.00
6	S-6	WATER	29-AUG-95	N/A	12-SEP-95	20.00

Parameter	Units	4	5	6
METHYL T-BUTYL ETHER	UG/L	<5.0	820	2600
BENZENE	UG/L	<0.50	<1.0	430
TOLUENE	UG/L	<0.50	<1.0	<10
ETHYLBENZENE	UG/L	<0.50	<1.0	340
XYLENES (TOTAL)	UG/L	<1.0	<2.0	40
FUEL HYDROCARBONS	UG/L	<50	190	8300
HYDROCARBON RANGE		C6-C12	C6-C12	C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE	GASOLINE	GASOLINE
SURROGATES				
TRIFLUOROTOLUENE	%	94	92	108

GAS CHROMATOGRAPHY RESULTS

Test : MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)
Client : ALISTO ENGINEERING ATI I.D. : 508297
Project # : G317853/10-017-05-001
Project Name: BP SITE#11116/7179 VILLAGE PKWY DUBLIN, CA

Sample #	Client ID	Matrix	Date Sampled	Date Extracted	Date Analyzed	Dil. Factor
7	S-7	WATER	29-AUG-95	N/A	12-SEP-95	20.00
8	S-8	WATER	29-AUG-95	N/A	12-SEP-95	1.00

Parameter	Units	7	8
METHYL T-BUTYL ETHER	UG/L	2200	<5.0
BENZENE	UG/L	430	<0.50
TOLUENE	UG/L	12	<0.50
ETHYLBENZENE	UG/L	360	<0.50
XYLENES (TOTAL)	UG/L	37	<1.0
FUEL HYDROCARBONS	UG/L	9400	<50
HYDROCARBON RANGE		C6-C12	C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE	GASOLINE
SURROGATES			
TRIFLUOROTOLUENE	%	103	90

GAS CHROMATOGRAPHY - QUALITY CONTROL

REAGENT BLANK

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
Blank I.D. : 36673
Client : ALISTO ENGINEERING
Project # : G317853/10-017-05-001
Project Name: BP SITE#11116/7179 VILLAGE PKWY DUBLIN, CA

ATI I.D. : 508297
Date Extracted: N/A
Date Analyzed : 11-SEP-95
Dil. Factor : 1.00

Parameters	Units	Results
METHYL T-BUTYL ETHER	UG/L	<5.0
BENZENE	UG/L	<0.50
TOLUENE	UG/L	<0.50
ETHYLBENZENE	UG/L	<0.50
XYLENES (TOTAL)	UG/L	<1.0
FUEL HYDROCARBONS	UG/L	<50
HYDROCARBON RANGE		C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE
SURROGATES		
TRIFLUOROTOLUENE	%	97

GAS CHROMATOGRAPHY - QUALITY CONTROL

REAGENT BLANK

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
Blank I.D. : 36704
Client : ALISTO ENGINEERING
Project # : G317853/10-017-05-001
Project Name: BP SITE#11116/7179 VILLAGE PKWY DUBLIN, CA

ATI I.D. : 508297
Date Extracted: N/A
Date Analyzed : 12-SEP-95
Dil. Factor : 1.00

Parameters	Units	Results
METHYL T-BUTYL ETHER	UG/L	<5.0
BENZENE	UG/L	<0.50
TOLUENE	UG/L	<0.50
ETHYLBENZENE	UG/L	<0.50
XYLENES (TOTAL)	UG/L	<1.0
FUEL HYDROCARBONS	UG/L	<50
HYDROCARBON RANGE		C6-C12
HYDROCARBONS QUANTITATED USING		GASOLINE
SURROGATES		
TRIFLUOROTOLUENE	%	97

GAS CHROMATOGRAPHY - QUALITY CONTROL

MSMSD

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
MSMSD # : 78465
Client : ALISTO ENGINEERING

Project # : G317853/10-017-05-001
Project Name: BP SITE#11116/7179 VILLAGE PKWY DUBLIN, CA

ATI I.D. : 508297
Date Extracted: N/A
Date Analyzed : 12-SEP-95
Sample Matrix : WATER
REF I.D. : 508297-01

Parameters	Units	Sample Result	Conc Spike	Spiked Sample	% Rec	Dup Spike	Dup % Rec	RPD
BENZENE	UG/L	<0.50	5.0	5.0	100	5.4	108	8
TOLUENE	UG/L	<0.50	5.0	5.1	102	5.7	114	11

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

GAS CHROMATOGRAPHY - QUALITY CONTROL

BLANK SPIKE

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
Blank Spike #: 58774
Client : ALISTO ENGINEERING
Project # : G317853/10-017-05-001
Project Name : BP SITE#11116/7179 VILLAGE PKWY DUBLIN, CA

ATI I.D. : 508297
Date Extracted: N/A
Date Analyzed : 11-SEP-95
Sample Matrix : WATER

Parameters	Units	Blank Result	Spiked Sample	Spike Conc.	% Rec
BENZENE	UG/L	<0.50	4.9	5.0	98
TOLUENE	UG/L	<0.50	5.0	5.0	100

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

GAS CHROMATOGRAPHY - QUALITY CONTROL

BLANK SPIKE

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
Blank Spike #: 58815
Client : ALISTO ENGINEERING
Project # : G317853/10-017-05-001
Project Name : BP SITE#11116/7179 VILLAGE PKWY DUBLIN, CA

ATI I.D. : 508297
Date Extracted: N/A
Date Analyzed : 12-SEP-95
Sample Matrix : WATER

Parameters	Units	Blank Result	Spiked Sample	Spike Conc.	% Rec
BENZENE	UG/L	<0.50	5.2	5.0	104
TOLUENE	UG/L	<0.50	5.3	5.0	106

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

ACCESSION #: 508297 INITIALS: LG

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

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

Describe "no" items: _____

Was client contacted? yes / no

If yes, Date: _____ Name of Person contacted:

Describe actions taken or client instructions: _____

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

CHAIN OF CUSTODY

No. 055925 Page 1 of 1

CONSULTANT'S NAME: Atlas Environmental	ADDRESS: 1575 Tice Blvd	CITY: Walnut Creek	STATE: CA	ZIP CODE: 94595
BP SITE NUMBER: 11116	BP CORNER ADDRESS/CITY: 7179 Village Pkwy, Dublin CA			CONSULTANT PROJECT NUMBER: 10-017-05-001
CONSULTANT PROJECT MANAGER: Bill Thurell	PHONE NUMBER: (510) 295 1050	FAX NUMBER: (510) 295 1823		CONSULTANT CONTRACT NUMBER: (Reply) G317553
BP CONTACT: Linda Hinton	BP ADDRESS: Renton Wa	PHONE NUMBER: (206)251-8208		FAX NO:
LAB CONTACT: ATL Inc	LABORATORY ADDRESS: San Diego CA	PHONE NUMBER: (619)458-9141		FAX NO: (619)450-9181
SAMPLED BY (Please Print Name): Dan Gibson	SAMPLED BY (Signature): Dan Gibson	SHIPMENT DATE: 8-30-95		SHIPMENT METHOD: Fed Ex

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

ANALYSIS REQUIRED

AIRBILL NUMBER: 6680233902

SAMPLE DESCRIPTION	COLLECTION DATE / TIME	MATRIX SOIL/WATER	CONTAINERS NO.	CONTAINERS TYPE (VOL.)	PRESERVATIVE LAB SAMPLE #	TPH 5030 Purge									COMMENTS
S-1	8/29/95	H2O	2	VOA	01	X									
S-2					02										
S-3					03										
S-4					04										
S-5					05										
S-6					06										
S-7					07										
S-8					08										

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Dan Gibson/ATL	8/29/95	1550	Patricia Yellow	8/29/95	1555
Patricia Yellow	8/30/95	1500	Lucy Chiang	8/31/95	9:20 AM

ADDITIONAL COMMENTS: Temp 2.0°

LAB ID. 508217

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