

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES  
ENVIRONMENTAL PROTECTION  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(510) 567-6700  
FAX (510) 337-9335

RO0000211

March 11, 2002

Mr. Scott Hooton  
BP Oil  
295 SW 41<sup>st</sup> St, Bldg 13, Ste N  
Renton, WA 98055

Mr. Dave DeWitt  
Tosco/Phillips 66  
2000 Crow Canyon Rd  
San Ramon, CA 94583

**Re: Fuel Leak Site Case Closure for 7197 Village Parkway, Dublin, CA**

Dear Messrs. Hooton and DeWitt:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Protection Division is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed.

**SITE INVESTIGATION AND CLEANUP SUMMARY**

Please be advised that the following conditions exist at the site:

- up to 540ppm TPH as gasoline, 0.46ppm MtBE, and 1.8ppm benzene exists in soil beneath the site at 9.0 feet bgs;
- up to 440ppb TPHg, and 508ppb MtBE exists in groundwater beneath the site; and,
- a site safety plan must be prepared in the event excavation/trenching is proposed in the vicinity of residual soil and groundwater contamination.

If you have any questions, please contact me at (510) 567-6762.

eva chu  
Hazardous Materials Specialist

enclosures: 1. Case Closure Letter 2. Case Closure Summary

c: Dennis Carrington, City of Dublin, 100 Civic Plaza, P.O. Box 2340, Dublin, CA 94568  
files (bp11116-5)



ENVIRONMENTAL HEALTH SERVICES  
ENVIRONMENTAL PROTECTION  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(510) 567-6700  
FAX (510) 337-9335

**REMEDIAL ACTION COMPLETION CERTIFICATION**

**RO-211 - 7197 Village Parkway, Dublin, CA  
(1 UST removed in December 1988 and 4 USTs removed in July 1998)**

March 11, 2002

Mr. Scott Hooton  
BP Oil  
295 SW 41<sup>st</sup> St, Bldg 13, Ste N  
Renton, WA 98055

Mr. Dave DeWitt  
Tosco/Phillips 66  
2000 Crow Canyon Rd  
San Ramon, CA 94583

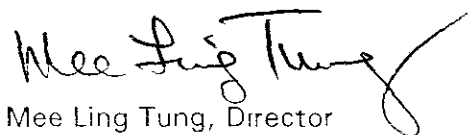
Dear Messrs. Hooton and DeWitt:

This letter confirms the completion of site investigation and corrective action for the underground storage tanks formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tanks are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank site is in compliance with the requirements of subdivisions (a) and (b) of Section 25299.37 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.77 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

This notice is issued pursuant to subdivision (h) of Section 25299.37 of the Health and Safety Code. Please contact our office if you have any questions regarding this matter.

Sincerely,

  
Mee Ling Tung, Director

cc: Chuck Headlee, RWQCB  
Dave Deaner, SWRCB  
William McCammon, Alameda County Fire (QIC 41401)  
files-ec (bp11116-4)

OCT 15 2001

**CASE CLOSURE SUMMARY**  
**Leaking Underground Fuel Storage Tank Program**      **QUALITY CONTROL BOARD**

**I. AGENCY INFORMATION**

Date: June 28, 2001

Agency name: **Alameda County-HazMat**  
 City/State/Zip: **Alameda, CA 94502**  
 Responsible staff person: **Eva Chu**

Address: **1131 Harbor Bay Pkwy**  
 Phone: **(510) 567-6700**  
 Title: **Hazardous Materials Spec.**

**II. CASE INFORMATION**Site facility name: **BP Oil Service Station No. 11116**Site facility address: **7197 Village Pkwy, Dublin, CA**RB LUSTIS Case No: **N/A**Local Case No./LOP Case No.: **RO-211/StID 2043**URF filing date: **12/16/88**SWEEPS No: **N/A**Responsible Parties:Addresses:Phone Numbers:

**Scott Hooton**  
**BP Oil**  
**295 SW 41<sup>st</sup> St. Bldg 13 Ste N**  
**Renton, WA 98055**  
**(425) 251-0689**

**Dave DeWitt**  
**Tosco**  
**2000 Crow Canyon Rd**  
**San Ramon, CA 94583**  
**(925) 277-2384**

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	280	Waste Oil	Removed	12/1988
2	10,000	Gasoline	"	7/1998
3	8,000	"	"	"
4	6,000	"	"	"
5	1,000	Waste Oil	"	"

**III. RELEASE AND SITE CHARACTERIZATION INFORMATION**Cause and type of release: **Unknown**Site characterization complete? **YES**Date approved by oversight agency: **6/18/2001**Monitoring Wells installed? **Yes**      Number: **6**Proper screened interval? **Adequate**Highest GW depth below ground surface: **4.50**      Lowest depth: **10.10'** in AW-6Flow direction: **Southeast** at **.004** ft/ftMost sensitive current use: **Commercial**Are drinking water wells affected? **No**      Aquifer name: **Amador Subbasin**Is surface water affected? **No**      Nearest affected SW name: **NA**Off-site beneficial use impacts (addresses/locations): **None**

Report(s) on file? **YES** Where is report(s) filed? **Alameda County**  
**1131 Harbor Bay**  
**Alameda, CA 94502**

**Treatment and Disposal of Affected Material:**

<u>Material</u>	<u>Amount</u> <u>(include units)</u>	<u>Action (Treatment</u> <u>or Disposal w/destination)</u>	<u>Date</u>
Tank	4 USTs	Disposed by ECI in Richmond, CA	7/1998
	1-280 gal UST	Unknown disposal destination	12/1988
Soil	250 cy	Unknown disposal destination	1989
	2284 tons	Disposed at Forward, Inc, in Manteca, CA	9/1998
Groundwater	28,000 gallons	Recycled at Tosco Refinery, in Rodeo, CA	1998

**Maximum Documented Contaminant Concentrations - - Before and After Cleanup**

Contaminant	Soil (ppm)		Water (ppb)	
	Before <sup>1</sup>	After <sup>2</sup>	Before <sup>3</sup>	After <sup>4</sup>
TPH (Gas)	130	540	140,000	440
TPH (Diesel)	36	1	60	ND
Benzene	ND	1.8	21,000	ND
Toluene	0.14	0.96	25,000	ND
Ethylbenzene	0.57	8.7	2,500	ND
Xylenes	0.38	23.6	14,000	ND
MTBE	0.26	0.46	50,000	508
Heavy Metals	within geogenic levels		see Note 5	
TOG	4,000	79	7,500	< 5000
Other HVOCs	ND	NA	ND	NA

- NOTE 1 soil sample from product piping trench (7/98), except TPHd and TOG from boring MW2, advanced adjacent to waste oil tank pit, 8/89
- 2 final soil samples collected after overexcavation of fuel tank pit, 8/98
- 3 maximum historic concentrations detected from groundwater monitoring wells
- 4 latest sampling event from tank cavity well (TC-1), 3/01, except TOG is from MW-3, 8/92
- 5 ND for Cd, Cr, Pb and 30ppb Ni, 1,160ppb Zn in grab groundwater sample from waste oil pit, 7/98

**IV. CLOSURE**

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? \_\_\_\_\_

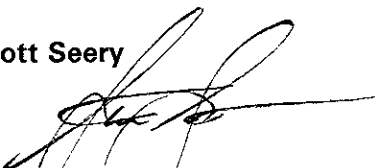
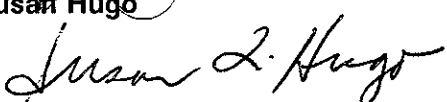
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? \_\_\_\_\_

Does corrective action protect public health for current land use? **YES**  
Site management requirements: **A site safety plan must be prepared for construction workers in the event excavation/trenching is proposed in the vicinity of residual soil and groundwater contamination.**  
Should corrective action be reviewed if land use changes? **YES**  
Monitoring wells Decommissioned: Yes, others to be decommissioned, pending site closure  
Number Decommissioned: **2** Number Retained: **4 (pending site closure)**  
List enforcement actions taken: **NA**  
List enforcement actions rescinded: **NA**

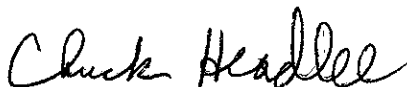
#### V. LOCAL AGENCY REPRESENTATIVE DATA

Name: **Eva Chu** Title: **Haz Mat Specialist**  
Signature:  Date: **10/5/01**

#### Reviewed by

Name: **Scott Seery** Title: **Haz Mat Specialist**  
Signature:  Date: **10-5-01**  
Name: **Susan Hugo** Title: **Acting Supervisor**  
Signature:  Date: **10/04/01**

#### VI. RWQCB NOTIFICATION

Date Submitted to RB: **10/12/01** RB Response: **concur**  
RWQCB Staff Name: **Chuck Headlee** Title: **AEG**  
Signature:  Date: **10/17/01**

#### VII. ADDITIONAL COMMENTS, DATA, ETC.

The site is located on the southeast corner of the intersection of Village Parkway and Amador Valley Boulevard in Dublin, CA. Until recently, the site consisted of an active gasoline service station. The property is up for sale and no business is currently operating at the site. (See Fig 1)

In December 1988 a 280-gallon waste oil tank, located behind the service station building, was removed and replaced with a new waste oil UST. Several holes were observed in the old tank. Two soil samples (WO-1 and WO-2) were collected beneath the tank at 10 and 18 feet bgs, respectively. Up to 550ppm TOG was detected at 10 feet bgs (see Fig 2). The pit was overexcavated laterally in two phases in December 1988. Final confirmatory soil samples (SW-1, SW-2, SW-3A, and SW-4) contained a maximum of 79ppm TOG and 20ppm TPHd at 10 feet bgs (see Fig 3 and Table 1).

In August 1989 three groundwater monitoring wells (MW1 through MW3) were installed around the former waste oil tank. Soil samples collected from the boreholes at 10' and 13' bgs contained up to 4,000ppm TOG. TPHg, TPHd, and BTEX levels were unremarkable. Groundwater samples also contained low levels of petroleum hydrocarbons, including 8.9ppm TOG. (See Fig 4 and Table 2)

In October 1990 eight temporary wells (TW-1 through TW-8) were drilled to 20' bgs. Grab groundwater samples were collected to assess the extent of the hydrocarbon plume and to determine possible locations for permanent wells. Based on this shallow groundwater survey, locations for three additional monitoring wells (AW-4 through AW-6) were selected. The wells were installed in October and November 1990, and three exploratory borings (B-1 through B-3) were also drilled in the vicinity of the former waste oil tank for the purpose of assessing the extent of TOG remaining in the soil at the site. (See Fig 5)

Soil analytical results did not identify TOG in any of the borings. Groundwater from TW-1, TW-7 and AW-6 contained benzene above the MCLs. The data appeared to demonstrate that the hydrocarbon release from the waste oil tank was limited in extent. However, the detection of benzene in boring TW-7 and AW-6 suggests there may have been a release from the fuel USTs. (See Tables 3 and 4)

Groundwater at the site was first encountered at various depths during drilling of the soil borings, depending on the permeability of the subsurface material encountered. With the exception of boring AW-6, the groundwater throughout the site appeared to be semi-confined by overlying silty clay to a depth of approximately 20 feet bgs. Groundwater stabilized at approximately 9 to 10 feet bgs. Boring AW-6 encountered a poorly graded sand at 4 to 15.5 feet bgs. (See Fig 6)

In July 1998, 1-10K, 1-8K, and 1-6K gallon gasoline USTs and 1-1000 gallon waste oil UST were removed. Groundwater was encountered at 10 feet bgs in the gasoline tank pit and at 9 feet in the waste oil tank pit. Following UST removal one groundwater sample (Water-FT) was collected from the gasoline tank pit, and another (Water-WO) was collected from the waste oil tank pit. Four soil samples (SW1 through SW4) were collected from the sidewalls of the gasoline tank pit at depths of approximately 9.5' bgs. One soil sample (WOSW1(8)) was collected from the west sidewall of the waste oil tank pit at a depth of approximately 9 feet bgs. (See Fig 7)

All soil samples revealed analytes below the laboratory detection limits. However, the groundwater sample from the waste oil tank pit contained 120ppb MTBE (using EPA Method 8020). The groundwater sample from the gasoline tank pit contained 10,000ppb TPHg, 450ppb benzene and 16,000ppb MTBE. (See Table 5)

In July 1998, the product dispensers and current product lines were removed. Five soil samples (P-1 through P-5) were collected in the piping trenches at approximately 4 to 5 feet bgs. TPHg concentrations ranged from 37 to 130ppm. MTBE ranged from ND to 0.26ppm. In August, all former generations of product lines were also removed. Eight soil samples (OP-1 through OP-8) were collected at depths ranging between 3 and 4 feet bgs. Low levels of TPHg, BTEX and MTBE were detected. (See Fig 7 and Table 5)

Approximately 436 tons of soil were excavated during the UST removal activities before the noted soil and water samples were collected. But based on visual observations and field instrument indications, an

additional 1850 tons of soil were removed. Confirmatory soil samples (S-1 through S-8) were collected from the end walls and bottom of the greatly expanded excavation, at 8 to 9 feet bgs. A maximum of 540ppm TPHG, and 1.8, 0.96, 8.7 and 23.6ppm BTEX, respectively, remains in the vicinity of sample S-6. (See Fig 8 and Table 6)

During excavation activities between July 31 and August 27, 1998, approximately 28,200 gallons of groundwater in the gasoline tank pit was removed. A water sample (W-1) was collected in August 2, 1998 after approximately 7,000 gallons of water was removed. Up to 4,400ppb MTBE (using EPA Method 8260) was identified in the water sample.

Before the USTs were removed, in anticipation of the extent of soil excavation that may be required at the site, monitoring wells AW-5 and AW-6 were destroyed. But before the overexcavated pit was filled, a tank cavity well (TC-1), constructed using a 6 inch diameter slotted PVC casing, was installed in the northwest corner of the excavation to facilitate future groundwater extraction, if deemed necessary.

Onsite groundwater monitoring wells were sampled from October 1990 to February 1998. Of significance was the detection of elevated TPHg and/or MTBE in wells AW-5 and AW-6. Over the years hydrocarbon constituents have steadily decreased. After wells AW-5 and AW-6 were destroyed, groundwater from the tank cavity well was sampled. In December 1999, 1,500ppb MTBE was identified. Groundwater was again sampled in March 2001, when 508ppb MTBE was detected. To demonstrate that the plume was stable and limited in extent, groundwater monitoring wells MW-6 and MW-7, owned by Shell Oil and located along Village Parkway, downgradient of the subject site, were sampled. Groundwater from these offsite wells did not contain TPHg, benzene, or MTBE when sampled in February 2001. (See Fig 9, Tables 7 and 8)

Residual petroleum hydrocarbon concentrations in soil were compared with the Final 2000 Draft RWQCB's Vadose-Zone Soil Screening Levels for Protection of Indoor Air Quality RBSLs (Table E-1). Maximum residual benzene concentration (1.8ppm) exceeded the RWQCB's RBSL for both a residential (0.18ppm) and commercial scenario (0.39ppm), assuming an excess cancer risk of  $10^{-6}$  (see Table 9). However, only a small pocket of soil, at 9 feet bgs (within or below the capillary fringe zone), contained up to 1.8ppm benzene. The average benzene concentration was calculated (using the 8 confirmation soil samples (S-1 through S-8) collected after the former tank pit was overexcavated) at 0.28ppm. The average residual benzene concentration should not pose a risk to human health at a residential or commercial scenario. Residual contaminants in soil should continue to naturally attenuate.

In summary, case closure is recommended because:

- the leak and ongoing sources have been removed;
- the site has been adequately characterized;
- the dissolved hydrocarbon plume is not migrating;
- no preferential pathways exist at the site;
- no water wells, deeper drinking water aquifers, surface water, or other sensitive receptors are likely to be impacted;  
*the plume does not extend much beyond the property, thus no likely offsite sensitive receptors*
- the site presents no significant risk to human health or the environment.







# KAPREALIAN ENGINEERING, INC.

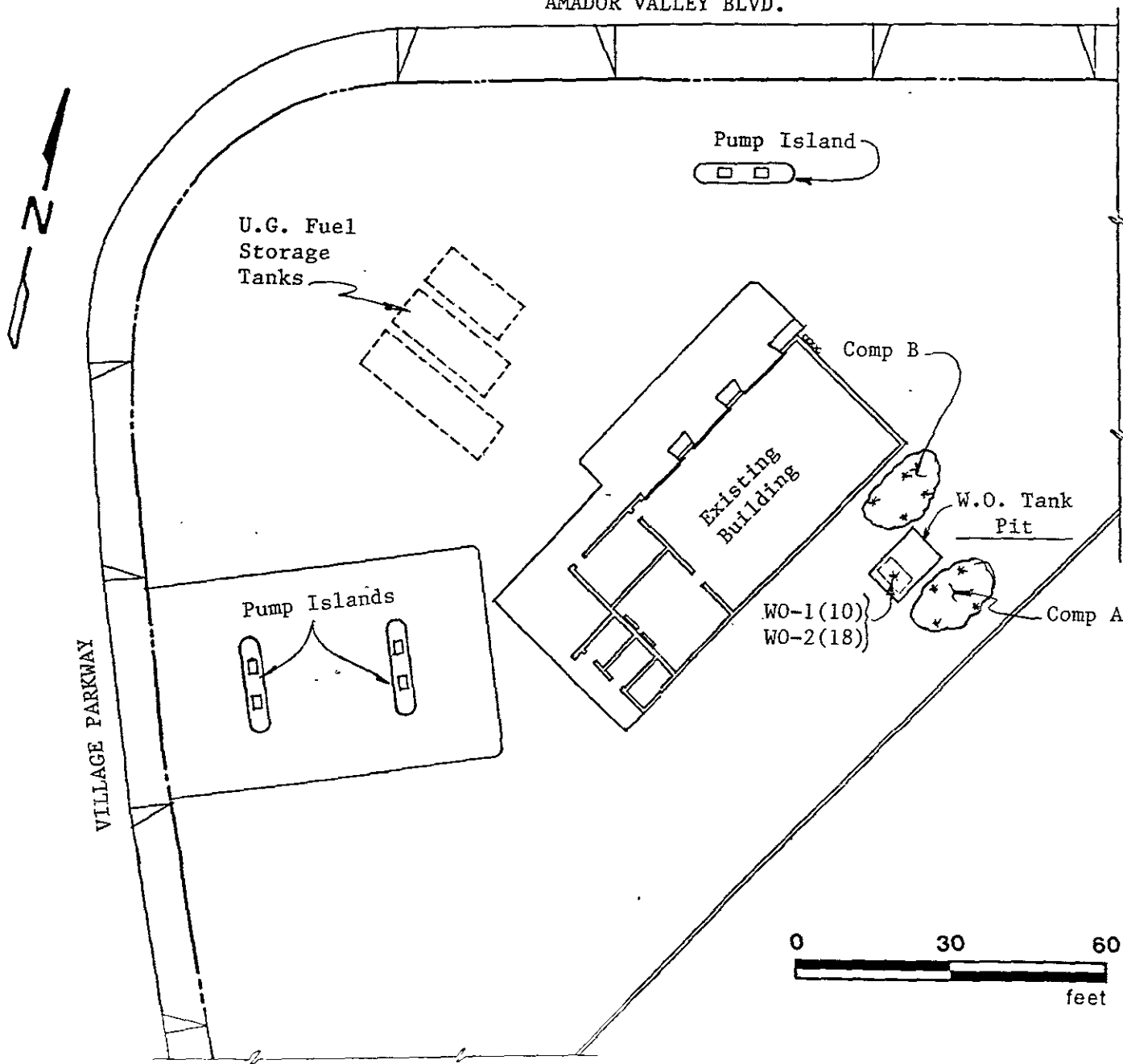
Consulting Engineers

P. O. BOX 913

BENICIA, CA 94510

(415) 676-9100 (707) 746-6915

AMADOR VALLEY BLVD.



SITE PLAN

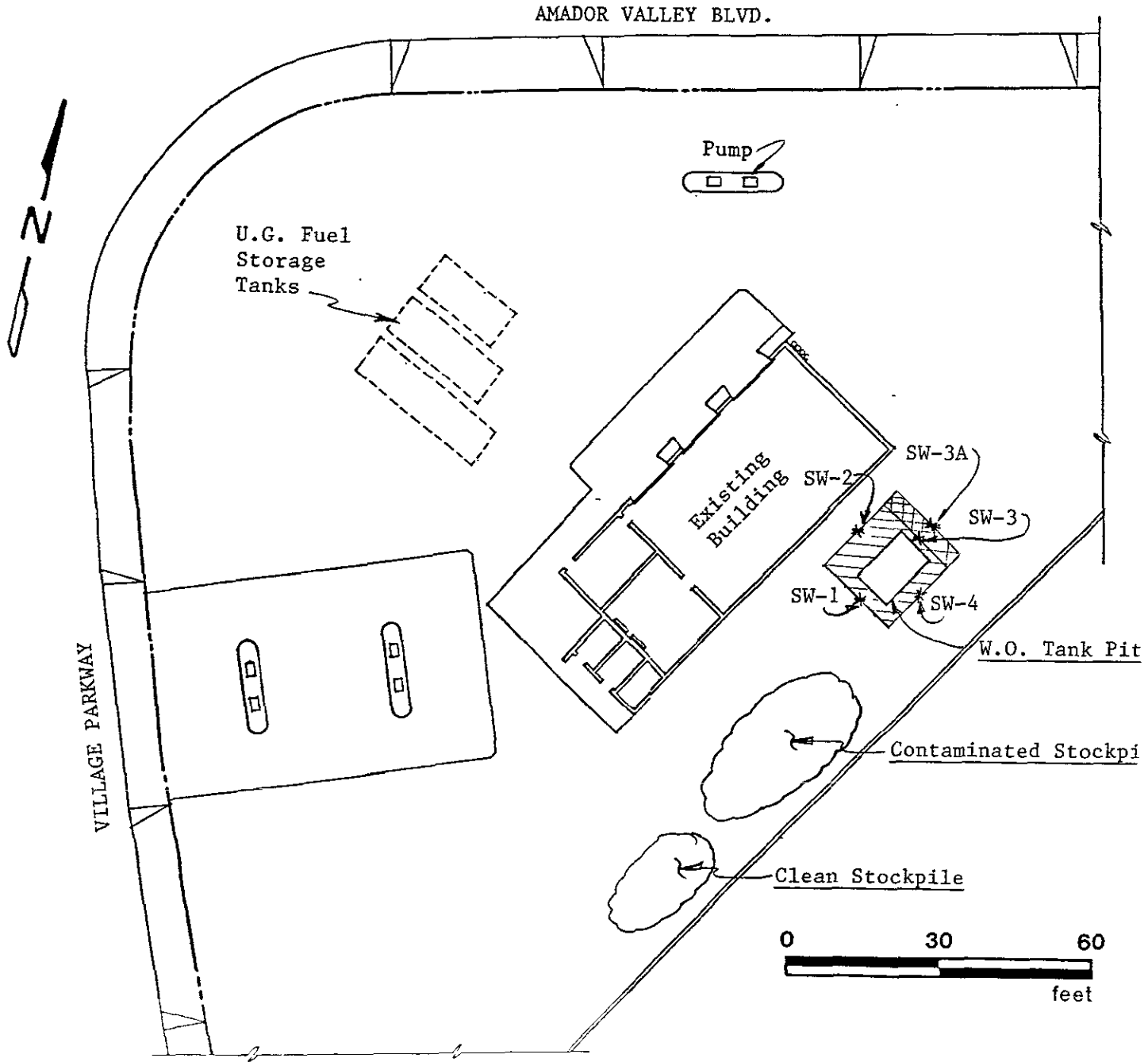
Figure 1

\*Sample Point Location

Mobil Service Station #10-KNK  
7197 Village Parkway  
Dublin, California



**KAPREALIAN ENGINEERING, INC.**  
 Consulting Engineers  
 P. O. BOX 913  
 BENICIA, CA 94510  
 (415) 676-9100 (707) 746-6915



SITE PLAN  
 Figure 2

- ★ Sample Point Location
- ▨ Lateral Area Excavated 12/15/88
- ▩ Lateral Area Excavated 12/20/88

Mobil Service Station #10-KNK  
 7197 Village Parkway  
 Dublin, California

KEI-J88-1206.R1  
January 11, 1989

TABLE 1  
SUMMARY OF LABORATORY ANALYSES  
(Results in ppm)

<u>Sample</u>	<u>Depth (feet)</u>	<u>TPH as Diesel</u>	<u>Total Oil &amp; Grease</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylenes</u>	<u>Ethyl- benzene</u>
WO-1(10)*	10	13	550	ND	0.015	0.110	0.055
WO-2(18)*	18	18	110	ND	ND	ND	ND
SW-1	10	4.0	60	--	--	--	--
SW-2	10	2.5	79	--	--	--	--
SW-3	10	20	1100	--	--	--	--
SW-4	10	ND	68	--	--	--	--
SW-3A	10	6.0	2.5	--	--	--	--
Comp A	--	35	17	--	--	--	--
Comp B	--	1.6	6.8	--	--	--	--

ND = Non-detectable

\*All EPA 8010 and 8020 constituents were not detectable except as noted.



# KAPREALIAN ENGINEERING, INC.

Consulting Engineers

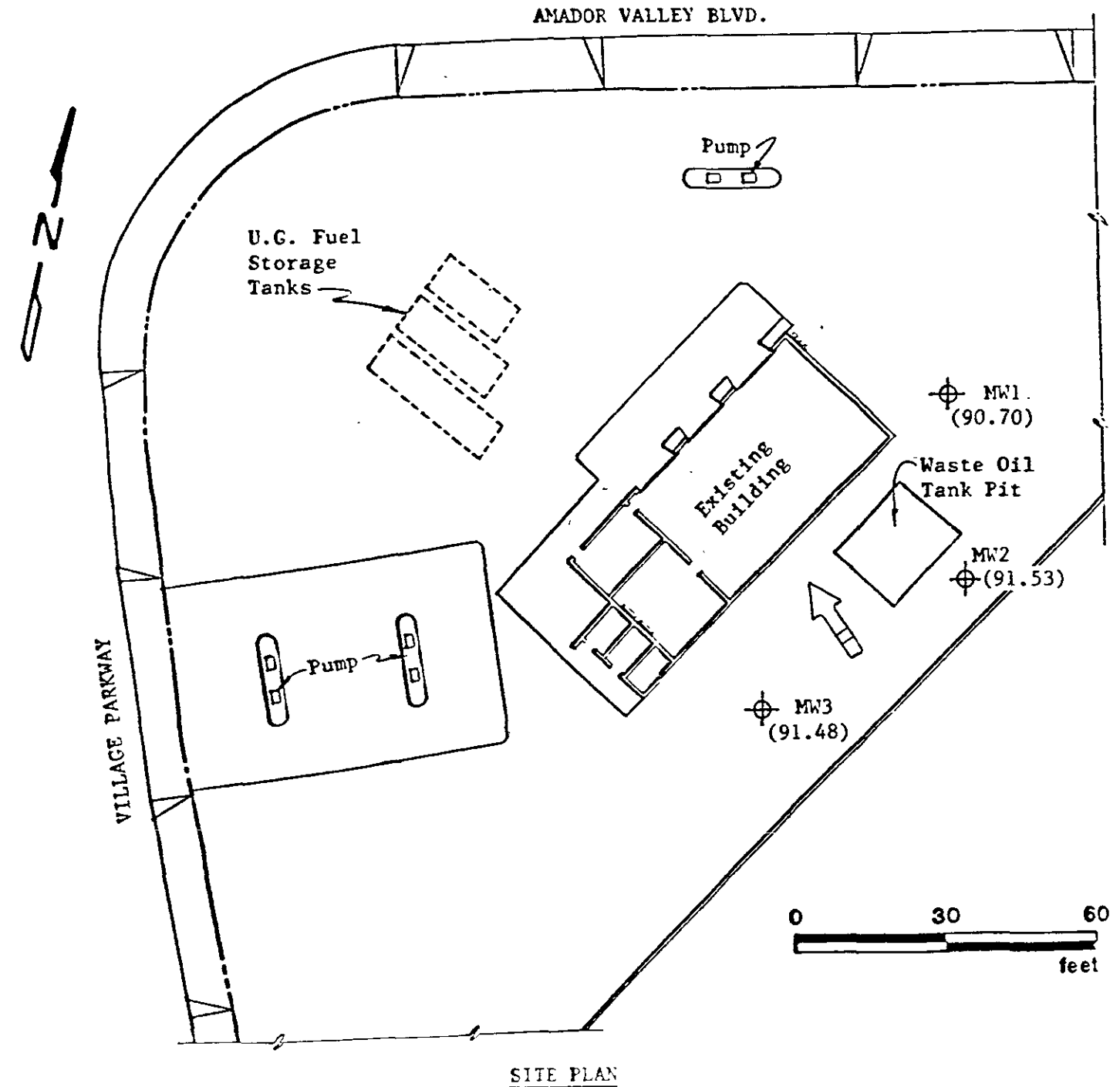
P. O. BOX 913

BENICIA, CA 94510

(707) 746-8915 (707) 746-8916

FAX: (707) 746-5581

FIG 4



SITE PLAN

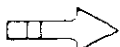


Monitoring Well

( )

Ground water elevation on 9/5/89  
Surface elevation at top of MW1  
assumed 100' as datum

Mobil Service Station #10-KNK  
7197 Village Parkway  
Dublin, California



Ground water flow direction

KEI-P88-1206.R2  
October 17, 1989

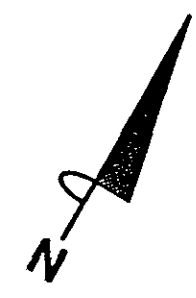
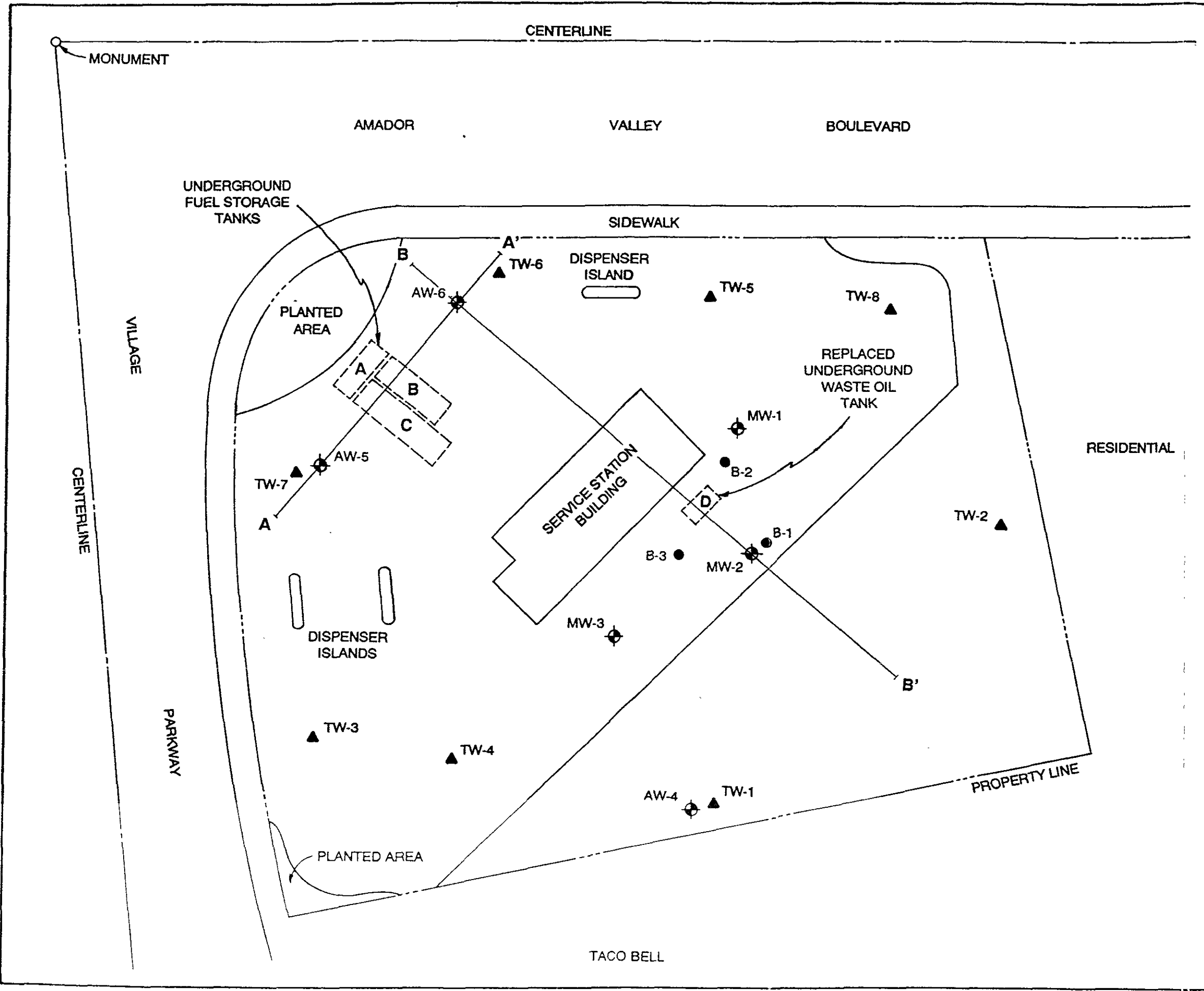
TABLE 2SUMMARY OF LABORATORY ANALYSES  
SOIL

(Results in ppm)  
(Collected on August 29, 1989)

<u>Sample Number</u>	<u>Depth (feet)</u>	<u>TPH as Diesel</u>	<u>TPH as Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylenes</u>	<u>Ethyl-benzene</u>	<u>TOG</u>
MW1	10	1.5	ND	ND	ND	ND	ND	490
MW1	13	1.6	ND	ND	ND	ND	ND	630
MW2	10	36	17	ND	ND	0.63	0.20	4,000
MW2	13.5	2.0	3.1	ND	ND	ND	ND	370
MW3	10	ND	4.4	ND	ND	ND	ND	35
MW3	13.5	ND	ND	ND	ND	ND	ND	750
Detection Limits		1.0	1.0	0.05	0.1	0.1	0.1	30





NOTE: EPA 8010 was non-detectable for all samples.

ND = Non-detectable.



SCALE: 1" = 30'

LEGEND

-  GROUND WATER MONITORING WELL
-  SOIL BORING
-  QUALITATIVE SHALLOW GROUND WATER SURVEY BORING
-  LINE OF GEOLOGIC CROSS SECTION

UNDERGROUND TANK CAPACITIES AND CONTENTS

- A: 6,000 GAL. UNLEADED PREMIUM
- B: 8,000 GAL. UNLEADED REGULAR
- C: 10,000 GAL. LEADED REGULAR
- D: 3,000 GAL. WASTE OIL (REPLACEMENT)

FIGURE 2  
SITE PLAN

FORMER MOBIL SERVICE STATION 10-KNK  
7197 VILLAGE PARKWAY  
DUBLIN, CALIFORNIA

ALTON GEOSCIENCE PROJECT NO. 30-095



**ALTON GEOSCIENCE**  
1000 Burnett Ave., Ste 140  
Concord, CA 94520

TABLE 2

## SUMMARY OF ANALYTICAL RESULTS OF SOIL SAMPLES

Former Mobil Oil Service Station 10-KNK  
7197 Village Parkway  
Dublin, California

## Concentrations in Parts Per Million

Boring Number	Depth in Feet	TPH <sup>a</sup> as Gasoline	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH as Diesel	TOG <sup>b</sup>	HVOC <sup>c</sup>
Date of Sampling - October 12, 1990									
B-1	11-11.5	ND <sup>d</sup> <0.5	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<10	ND<30	ND
B-1	16-16.5	ND<0.5	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<10	ND<30	ND
B-1	21-21.5	ND<0.5	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<10	ND<30	ND
B-2	11-11.5	ND<0.5	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<10	ND<30	ND
B-2	16-16.5	ND<0.5	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<10	ND<30	ND
B-2	22.5-23	ND<0.5	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<10	ND<30	ND
Date of Sampling - November 6, 1990									
B-3	10.5-11	ND<1.0	ND<0.003	ND<0.003	ND<0.003	ND<0.003	ND<10	ND<20	ND
B-3	16-16.5	ND<1.0	ND<0.003	ND<0.003	ND<0.003	0.013	ND<10	ND<20	ND
B-3	21-21.5	ND<1.0	ND<0.003	ND<0.003	ND<0.003	ND<0.003	ND<10	ND<20	ND
AW-4	6-6.5	ND<1.0	ND<0.003	ND<0.003	ND<0.003	ND<0.003	--- <sup>f</sup>	--	--
AW-4	21-21.5	ND<1.0	ND<0.003	ND<0.003	ND<0.003	ND<0.003	--	--	--
AW-5	6-6.5	6.0	0.25	0.018	0.033	0.088	--	--	--
AW-5	11-11.5	ND<1.0	ND<0.003	ND<0.003	ND<0.003	ND<0.003	--	--	--
AW-5	16-16.5	ND<1.0	ND<0.003	ND<0.003	ND<0.003	ND<0.003	--	--	--
AW-5	21-21.5	ND<1.0	ND<0.003	ND<0.003	ND<0.003	ND<0.003	--	--	--
AW-6	6-6.5	ND<1.0	ND<0.003	ND<0.003	ND<0.003	ND<0.003	--	--	--

<sup>a</sup>Represents Total Petroleum Hydrocarbons

<sup>b</sup>Represents Total Oil and Grease

<sup>c</sup>Represents Halogenated Volatile Organic Compounds - Refer to Laboratory Reports for Detection limits

<sup>d</sup>Not Detected above the reported detection limits

<sup>e</sup>Not Analyzed

TABLE 3

SUMMARY OF ANALYTICAL RESULTS OF GROUND WATER SAMPLES  
FROM QUALITATIVE SHALLOW GROUND WATER SURVEY

Former Mobil Service Station 10-KNK  
7197 Village Parkway  
Dublin, California

Concentrations in Parts Per Billion

Well Number	TPH <sup>a</sup> as Gasoline	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH as Diesel	TOG <sup>b</sup>	HVOC <sup>c</sup>
Date of Sampling - October 12, 1990								
MW-1	ND <sup>d</sup> <50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<50	ND<5	ND
MW-2	93	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<50	ND<5	ND
MW-3	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<50	ND<5	ND
TW-1	6,100	94	490	92	590	-- <sup>e</sup>	ND<5	--
TW-2	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	ND<5	--
TW-3	ND<50	0.8	ND<0.5	ND<0.5	ND<0.5	--	--	--
TW-4	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--
TW-5	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--
TW-6	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--
TW-7	11,000 <sup>f</sup>	250	580	344	1,700	--	--	--
TW-8	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--

<sup>a</sup>Represents Total Petroleum Hydrocarbons

<sup>b</sup>Represents Total Oil and Grease

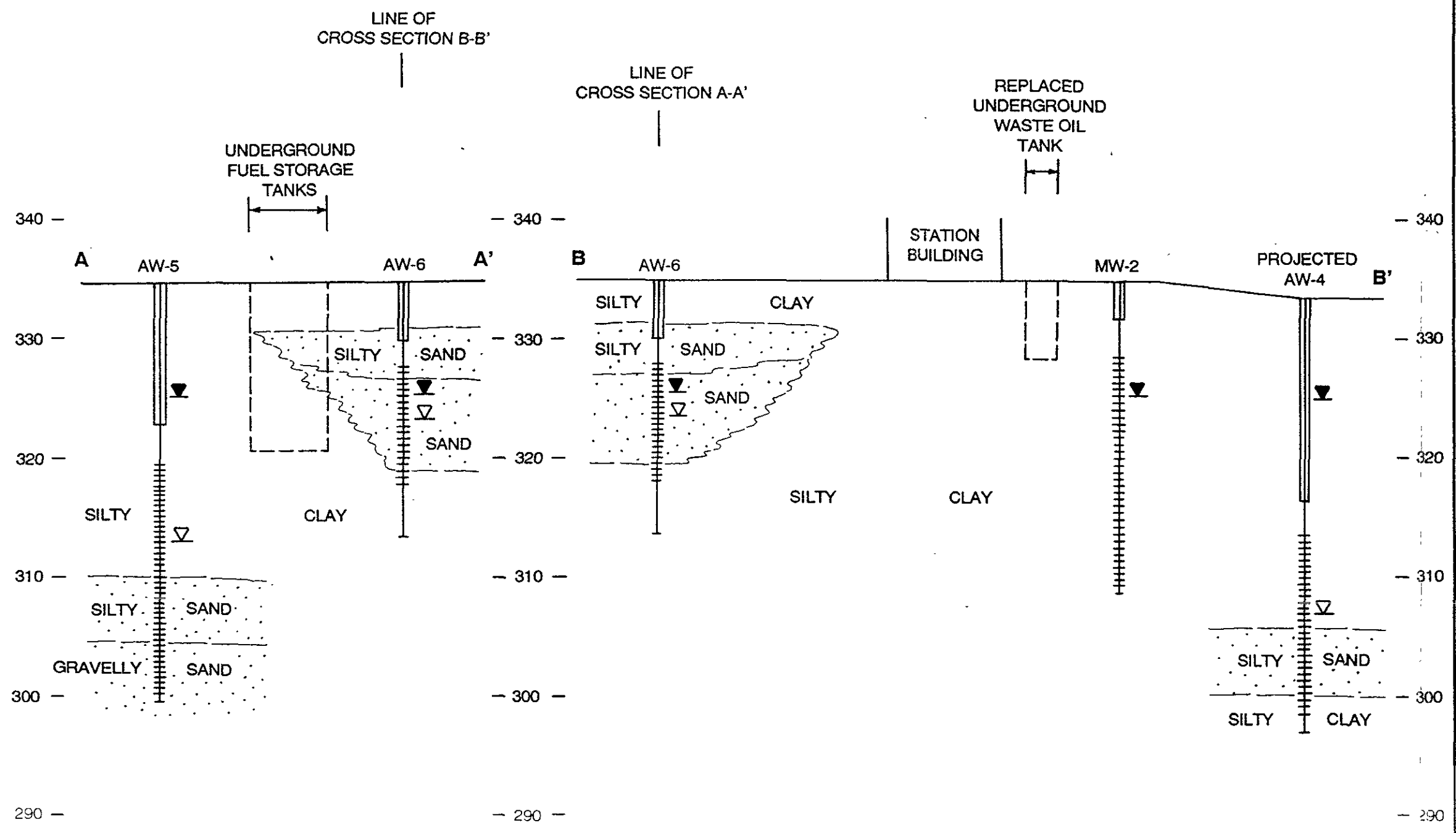
<sup>c</sup>Represents Halogenated Volatile Organic Compounds - Refer to Laboratory Reports for Detection limits

<sup>d</sup>Not detected above the given detection limits

<sup>e</sup>Not analyzed

<sup>f</sup>Estimated value below detection limits



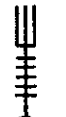






SCALE: 1" = 30' HORIZONTAL  
 1" = 10' VERTICAL

DISTANCES AND ELEVATIONS IN FEET

ELEVATIONS RELATIVE TO A MONUMENT  
 WITH AN ASSUMED ELEVATION OF  
 335.92 FEET ABOVE MEAN SEA LEVEL

LEGEND

-  GROUND WATER MONITORING WELL SHOWING SEAL AND SLOTTING
-  GEOLOGIC CONTACT
-  GROUND WATER ELEVATION AT TIME OF DRILLING
-  GROUND WATER ELEVATION ON NOVEMBER 15, 1990
-  PERMEABLE MATERIAL

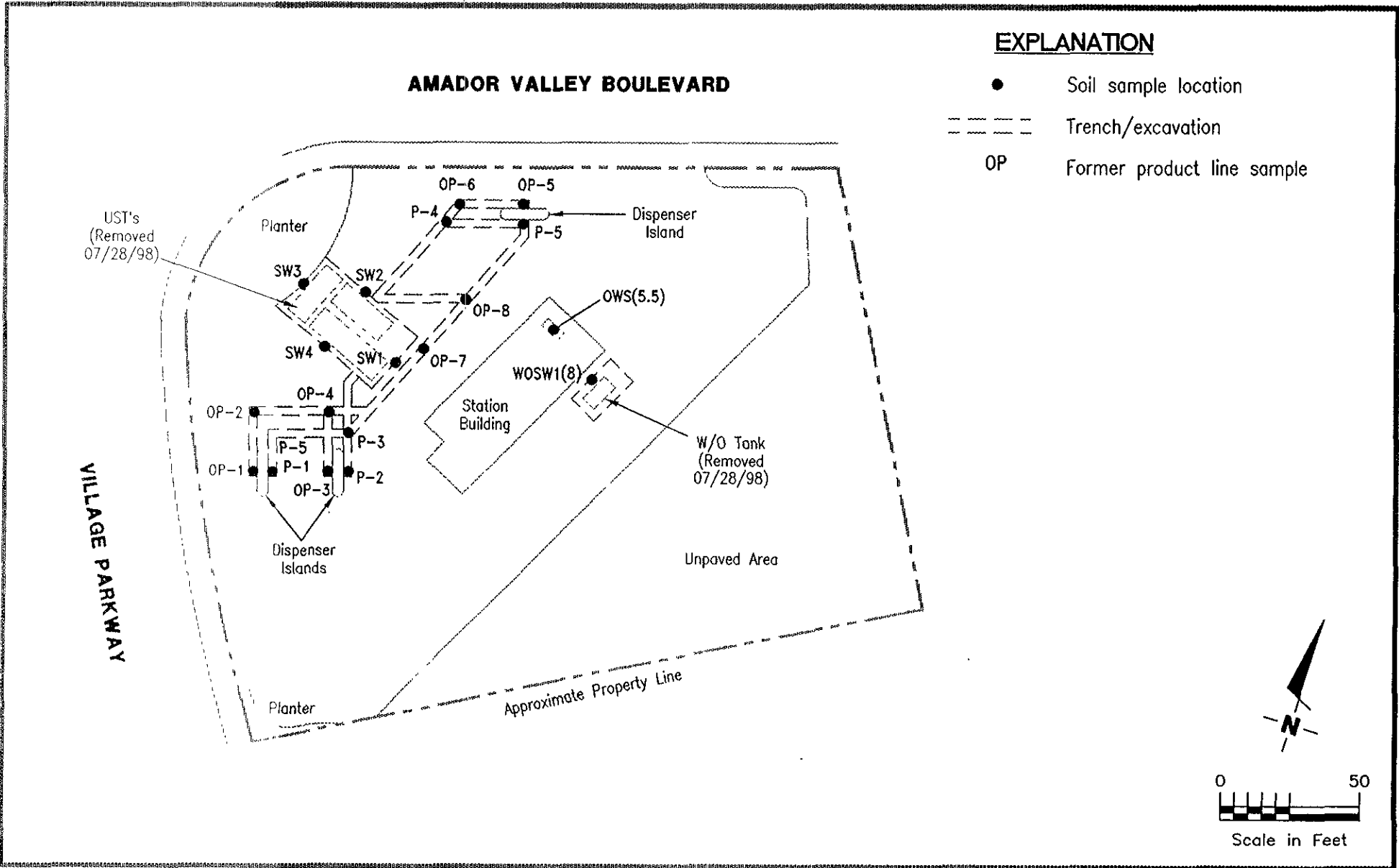
**FIGURE 4**  
**GEOLOGIC CROSS SECTIONS**  
**A-A' AND B-B'**

FORMER MOBIL OIL SERVICE STATION 10-KNK  
 7197 VILLAGE PARKWAY  
 DUBLIN, CALIFORNIA

ALTON GEOSCIENCE PROJECT NO. 30-095



**ALTON GEOSCIENCE**  
 1000 Burnett Ave., Ste 140  
 Concord, CA 94520



**Gottler - Ryan Inc.**

6747 Sierra Ct., Suite J (925) 551-7555  
Dublin, CA 94568

**SOIL SAMPLE LOCATION MAP**  
Former Tosco BP Branded Facility #11116  
7197 Village Parkway  
Dublin, California

FIGURE

**2**

JOB NUMBER  
140188.02

REVIEWED BY

DATE  
September, 1998

REVISED DATE

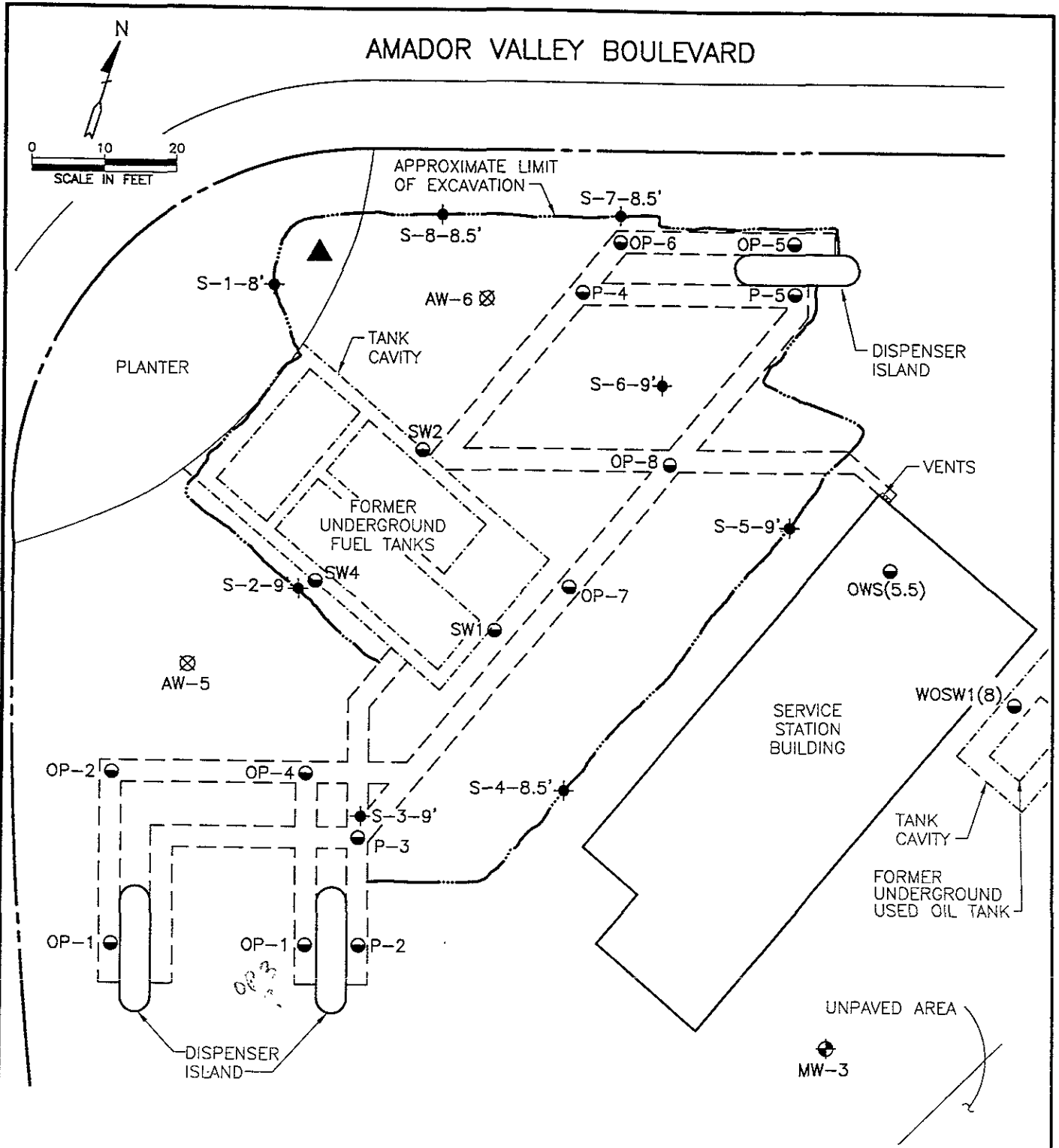
FIG 7

**Table 1 - Chemical Analytical Data**  
Former Tosco BP Branded Facility No. 11116  
7197 Village Parkway  
Dublin, California

Sample ID	Date Collected	Sample Depth (feet)	TPHg (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl-Benzene (ppm)	Xylenes (ppm)	MTBE (ppm)	TPHd (ppm)	LEAD (ppm)	HVOCs (ppm)	SVOCs (ppm)
<b><u>GASOLINE UST PIT EXCAVATION (SOIL)</u></b>												
SW1	7/28/98	9.5	ND	ND	ND	ND	ND	ND	NR	8.1	NR	NR
SW2	7/28/98	9.5	ND	ND	ND	ND	ND	ND	NR	5.2	NR	NR
SW3	7/28/98	9.5	ND	ND	ND	ND	ND	ND	NR	5.4	NR	NR
SW4	7/28/98	9.5	ND	ND	ND	ND	ND	ND	NR	5.7	NR	NR
<b><u>WASTE OIL UST PIT EXCAVATION (SOIL)</u></b>												
WOSW1 (8)	7/28/98	8.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<b><u>OIL/WATER SEPARATOR (SOIL)</u></b>												
OWS (5 5)	7/30/98	5.5	260 <sup>2</sup>	ND	ND	ND	0.890	ND	470 <sup>3</sup>	8.2	ND <sup>4</sup>	ND <sup>5</sup>
<b><u>PRODUCT PIPING TRENCHES (SOIL)</u></b>												
P-1	7/30/98	4.5	52 <sup>6</sup>	ND	0.11	0.16	0.38	ND	NR	5.0	NR	NR
P-2	7/30/98	4.5	ND	ND	ND	ND	ND	0.053	NR	6.7	NR	NR
P-3	7/30/98	4.5	ND	ND	ND	ND	ND	0.26	NR	5.4	NR	NR
P-4	7/30/98	5.0	130 <sup>6</sup>	ND	ND	0.57	0.26	ND	NR	9.4	NR	NR
P-5	7/30/98	4.0	37 <sup>6</sup>	ND	0.14	ND	0.27	ND	NR	5.6	NR	NR
<b><u>FORMER PRODUCT PIPING TRENCHES (SOIL)</u></b>												
OP-1	8/7/98	4.0	ND	ND	ND	ND	ND	ND	NR	8.9	NR	NR
OP-2	8/7/98	3.0	ND	ND	ND	ND	ND	ND	NR	7.7	NR	NR
OP-3	8/7/98	3.5	ND	ND	ND	ND	ND	0.23	NR	7.5	NR	NR
OP-4	8/7/98	3.0	ND	0.0064	ND	ND	0.035	ND	NR	6.5	NR	NR
OP-5	8/7/98	3.5	6.3	0.18	0.027	0.064	0.13	0.1	NR	10	NR	NR
OP-6	8/7/98	3.5	2.9	0.064	0.017	0.055	0.15	ND	NR	7.9	NR	NR
OP-7	8/7/98	4.0	13	0.36	0.048	1.0	0.42	0.26	NR	550	NR	NR
OP-8	8/7/98	3.0	3.6	0.030	0.013	0.11	0.068	0.0517	NR	6.6	NR	NR

**Table 1 - Chemical Analytical Data**  
 Former Tosco BP Branded Facility No. 11116  
 7197 Village Parkway  
 Dublin, California

Sample ID	Date Collected	Sample Depth (feet)	TPHg (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl-Benzene (ppm)	Xylenes (ppm)	MTBE (ppm)	TPHd (ppm)	LEAD (ppm)	HVOCs (ppm)	SVOCs (ppm)
<b>WASTE OIL UST PIT STOCKPILE</b>												
Comp WO	7/30/98	NA	ND	ND	ND	ND	ND	ND	ND	5.6	ND	ND
<b>GASOLINE UST PIT STOCKPILE</b>												
Comp A	7/30/98	NA	ND	ND	0.012	ND	0.024	ND	NR	5.5	NR	NR
Comp B	7/30/98	NA	ND	ND	0.0072	ND	0.015	ND	NR	4.1	NR	NR
<b>PRODUCT LINE STOCKPILE</b>												
Comp C	8/7/98	NA	1.0 <sup>7</sup>	ND	0.0075	ND	0.24	ND	NR	8.8	NR	NR
Sample ID	Date Collected	Sample Depth (feet)	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-Benzene (ppb)	Xylenes (ppb)	MTBE (ppb)	TPHd (ppb)	LEAD (ppm)	HVOCs (ppb)	SVOCs (ppb)
<b>GASOLINE UST PIT EXCAVATION (WATER)</b>												
Water-FT	7/28/98	NA	10,000	450	2,000	210	1,300	16,000	NR	ND	NR	NR
<b>WASTE OIL UST PIT EXCAVATION (WATER)</b>												
Water-WO	7/28/98	NA	ND	ND	ND	ND	ND	120	270 <sup>1</sup>	ND	ND	ND
Sample ID	Date Collected	Sample Depth (feet)	O&G (ppm)	Chromium (ppm)	Nickel (ppm)	Zinc (ppm)	Cadmium (ppm)					
WOSWI (8)	7/28/98	8.0	ND	33	42	38	ND					
Water-WO	7/28/98	NA	8.7	0.12	0.20	0.14	ND					
OWS (5.5)	7/30/98	5.5	2,700	ND	ND	1.5	ND					
Comp WO	7/30/98	NA	ND	6.8	41	28	ND					



**LEGEND**

- ⊕ GROUNDWATER MONITORING WELL
- BP OIL SOIL SAMPLE LOCATION
- TOSCO SOIL SAMPLE LOCATION
- ▲ TANK CAVITY WELL
- ⊗ DESTROYED WELL
- - - - - PRODUCT LINE TRENCH
- — — — — LIMIT OF EXCAVATION

**FIGURE 3**

**SOIL SAMPLE LOCATION MAP**

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

PROJECT NO. 10-017



**ALISTO ENGINEERING GROUP**  
 WASHINGTON, CALIFORNIA

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

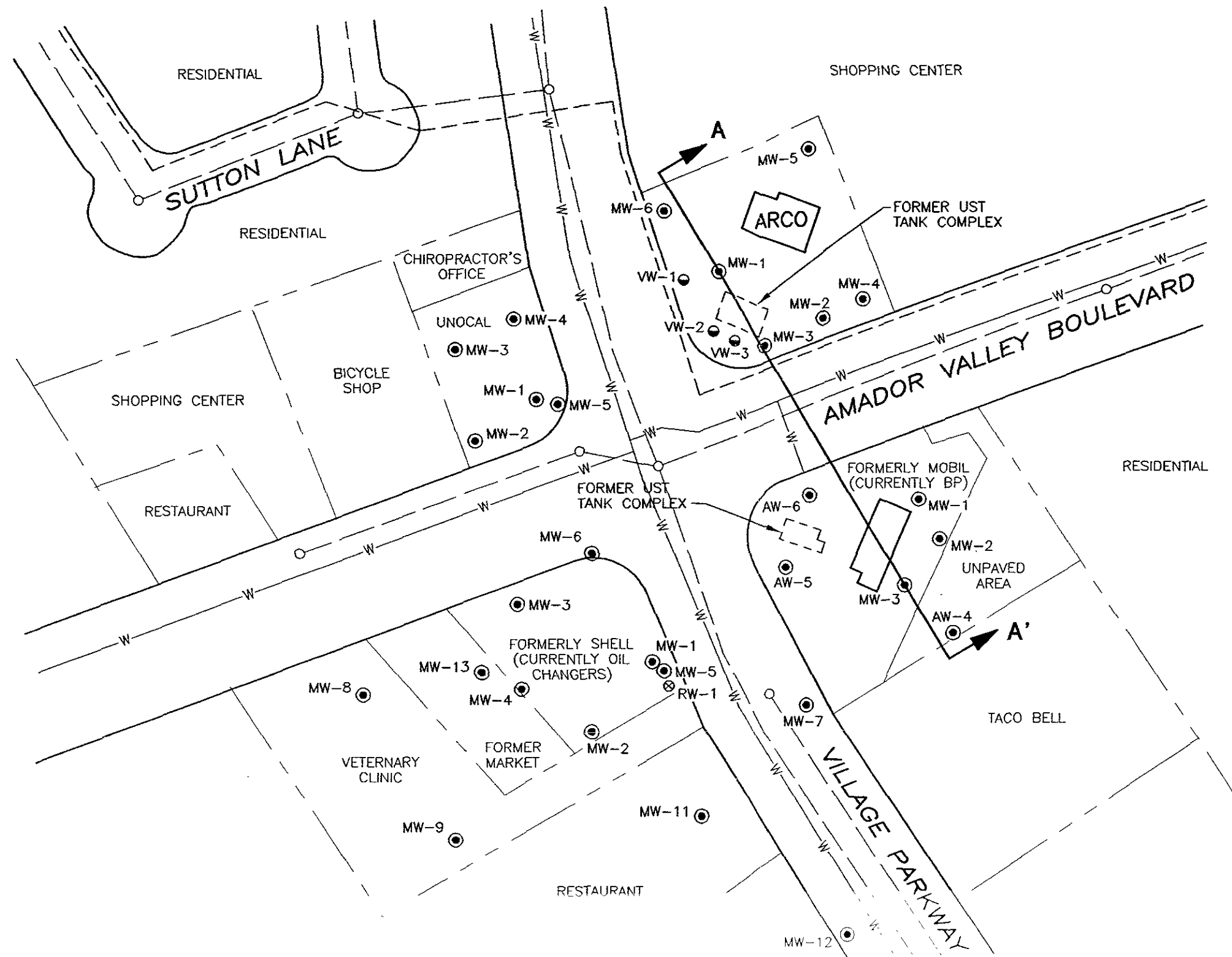
ALISTO PROJECT NO. 10-017

SOIL SAMPLE ID	SAMPLE DEPTH (feet)	DATE OF SAMPLING	TPH-G (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	LAB
S-1	8	08/19/98	0.05	ND<0.001	ND<0.002	ND<0.002	ND<0.002	ND<0.1	SPL
S-2	9	08/19/98	ND<0.05	ND<0.001	ND<0.002	ND<0.002	ND<0.002	ND<0.1	SPL
S-3	9	08/19/98	1.2	0.13	0.019	0.011	0.0255	0.17	SPL
S-4	8.5	08/19/98	130	0.26	ND<0.2	2.3	10.3	ND<10	SPL
S-5	9	08/25/98	0.73	0.021	ND<0.01	0.012	ND<0.01	0.46	SPL
S-6	9	08/25/98	540	1.8	0.96	8.7	23.6	ND<5.0	SPL
S-7	8.5	08/25/98	1.0	0.0076	0.0037	0.010	0.0185	ND<0.1	SPL
S-8	8.5	08/25/98	ND<0.05	ND<0.001	ND<0.002	ND<0.002	ND<0.002	ND<0.1	SPL

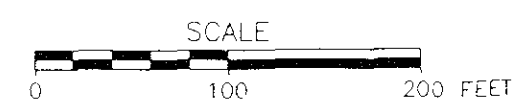
ABBREVIATIONS:

TPH-G Total petroleum hydrocarbons as gasoline  
 B Benzene  
 T Toluene  
 E Ethylbenzene  
 X Total xylenes  
 MTBE Methyl tert butyl ether  
 mg/kg Milligrams per kilogram  
 ND Not detected above reported detection limit  
 SPL Southern Petroleum Laboratories

DRAWN BY  
K Black  
DATE  
10-17-99  
NUMBER



- EXPLANATION**
- ⊙ Groundwater monitoring well
  - Vapor extraction well
  - ⊗ Recovery well
  - Storm drain
  - Sanitary sewer
  - W— Water line
  - ↑ Line of cross section

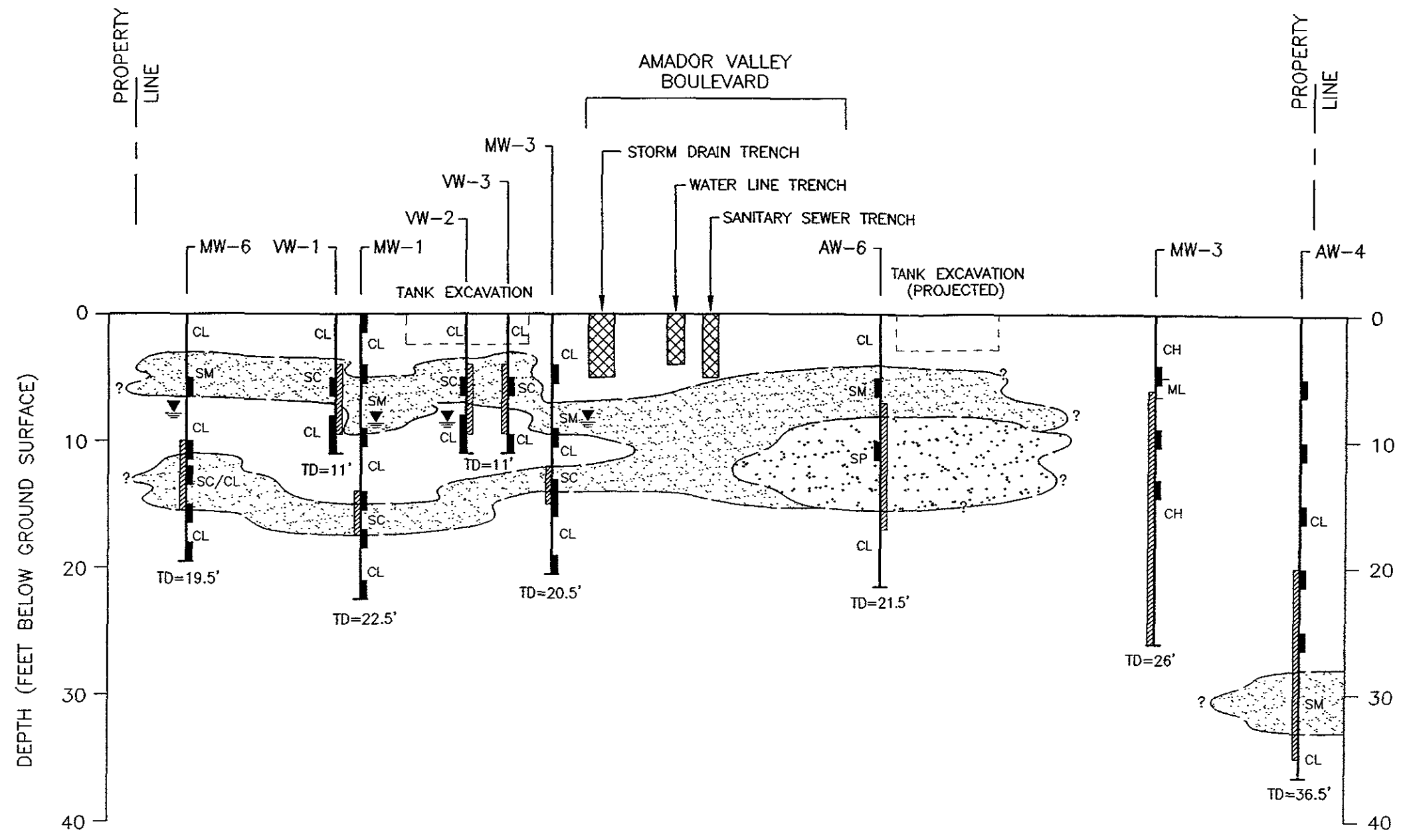


ARCO PRODUCTS COMPANY  
SERVICE STATION 6041


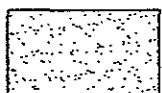
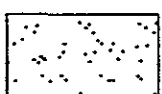



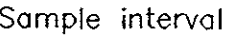
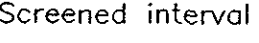
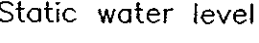

FIGURE 1  
SITE PLAN

7249 VILLAGE PARKWAY  
DUBLIN, CALIFORNIA

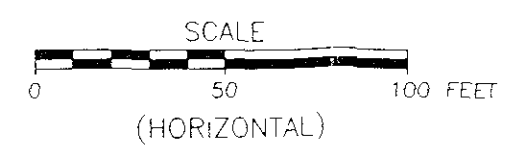
DRAWN BY  
K Black  
PROJECT NUMBER  
10-11-99  
791669



**EXPLANATION**

-  CLAY AND SILT (CL, CH, ML)
-  SAND WITH FINES (SC, SM)
-  SAND (SP)
-  Lithologic contact
-  MW-3 Boring/well designation
-  Bore hole
-  Sample interval
-  Screened interval
-  Static water level
-  TD=26' Total depth (feet)

NOTE: Depth to water measurements as of 2-17-99. Recent groundwater monitoring data was not available for all wells.




 IT CORPORATION	ARCO PRODUCTS COMPANY SERVICE STATION 6041
	FIGURE 2 CROSS SECTION A-A'  7249 VILLAGE PARKWAY DUBLIN, CALIFORNIA



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)	MTBE (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	---	---	---	---	---	---	---	---	---	---	ANA
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	---	---	---	---	---
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	---	ND<5000	41 (c)	---	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	---	7500	ND	---	SUP
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	---	ANA
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	---	---	---	---	---	---	---	ND<5000	ND	---	SEQ
MW-1	06/03/92	335.17	9.06	326.11	ND<50	---	---	---	---	---	---	---	---	---	---
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	---	ANA
MW-1	05/21/93	335.17	5.73	329.44	---	---	---	---	---	---	---	ND<5000	ND	---	PACE
MW-1	08/12/93	335.17	8.99	326.18	ND<50	---	---	---	---	---	---	---	---	---	---
MW-1	11/11/93	335.17	9.65	325.52	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
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	---	---	---	---	---
MW-1	05/17/94	335.17	8.17	327.00	---	---	---	---	---	---	---	ND<5000	ND	---	PACE
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	---	---	---	---	---
MW-1 (d)	11/18/94	335.17	8.65	326.52	---	---	---	---	---	---	---	---	---	6.5	PACE
MW-1	02/15/95	335.17	6.56	328.61	ND<50 (e)	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---
MW-1	05/24/95	335.17	6.80	328.37	---	---	---	---	---	---	---	---	---	---	ATI
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	---	---	---	---	---
MW-1	11/28/95	335.17	9.54	325.63	---	---	---	---	---	---	ND<5.0 (f)	---	---	8.7	ATI
MW-1	02/26/96	335.17	5.60	329.57	---	---	---	---	---	---	---	---	---	---	---
MW-1	05/23/96	335.17	7.13	328.04	---	---	---	---	---	---	---	---	---	---	---
MW-1	08/23/96	335.17	6.71	328.46	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	---
MW-1	12/02/96	335.17	8.58	326.59	---	---	---	---	---	---	---	---	---	5.7	SPL
MW-1	05/16/97	335.17	7.78	327.39	---	---	---	---	---	---	---	---	---	---	---
MW-1	08/22/97	335.17	8.80	326.37	---	---	---	---	---	---	---	---	---	---	---
MW-1	02/12/98	335.17	4.40	330.77	---	---	---	---	---	---	---	---	---	---	---
MW-1	02/23/98	335.17	4.31	330.86	---	---	---	---	---	---	---	---	---	---	---

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 (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)	MTBE (ug/l)	TOG (ug/l)	HVOC (ug/l)	DO (ppm)	LAB
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	---	---	---	---	---	---	---	---	---	---	ANA
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	---	---	---	---	---
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	---	ND<5000	45 (c)	---	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	---	6000	ND	---	SUP
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	---	ANA
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	---	---	---	---	---	---	---	ND<5000	ND	---	SEQ
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	---	---	---	---	---
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<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	ND<5000	ND	---	ANA
MW-2	05/21/93	334.58	6.96	327.62	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
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	---	---	---	---	---
MW-2	11/11/93	334.58	9.28	325.30	---	---	---	---	---	---	---	---	---	---	PACE
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	---	---	---	---	---
MW-2	05/17/94	334.58	7.71	326.87	---	---	---	---	---	---	---	---	---	---	PACE
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	---	---	---	---	---
MW-2 (d)	11/18/94	334.58	8.15	326.43	---	---	---	---	---	---	---	---	---	5.3	PACE
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	---	---	---	---	---
MW-2	05/24/95	334.58	6.50	328.08	---	---	---	---	---	---	---	---	---	---	ATI
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	ND<5.0 (f)	---	---	---	---
MW-2	11/28/95	334.58	9.05	325.53	---	---	---	---	---	---	---	---	---	8.7	ATI
MW-2	02/26/96	334.58	4.49	330.09	---	---	---	---	---	---	---	---	---	---	---
MW-2	05/23/96	334.58	6.95	327.63	---	---	---	---	---	---	---	---	---	---	---
MW-2	08/23/96	334.58	6.53	328.05	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	---
MW-2	12/02/96	334.58	8.40	326.18	---	---	---	---	---	---	---	---	---	5.3	SPL
MW-2	05/16/97	334.58	7.57	327.01	---	---	---	---	---	---	---	---	---	---	---
MW-2	08/22/97	334.58	8.55	326.03	---	---	---	---	---	---	---	---	---	---	---
MW-2	02/12/98	334.58	4.10	330.48	---	---	---	---	---	---	---	---	---	---	---
MW-2	02/23/98	334.58	4.03	330.55	---	---	---	---	---	---	---	---	---	---	---

Cont. Table 1

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 (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)	MTBE (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	---	---	---	---	---	---	---	---	---	---	ANA
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	---	---	---	---	---
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	---	SUP
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	---	ANA
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	---	---	---	---	---	---	---	---	---	---	SEQ
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	---	---	---	---	---
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	---	ANA
MW-3	05/21/93	335.13	7.69	327.44	---	---	---	---	---	---	---	ND<5000	ND	---	PACE
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	---	---	---	---	---
MW-3	11/11/93	335.13	9.78	325.35	---	---	---	---	---	---	---	---	---	---	PACE
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	---	---	---	---	---
MW-3 (d)	11/18/94	335.13	8.62	326.51	---	---	---	---	---	---	---	---	---	7.5	PACE
MW-3	02/15/95	335.13	6.61	328.52	ND<50	(e)	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---
MW-3	05/24/95	335.13	6.83	328.30	---	---	---	---	---	---	---	---	---	---	ATI
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	---	---	---	---	---
MW-3	11/28/95	335.13	8.57	326.56	---	---	---	---	---	---	ND<5.0 (f)	---	---	9.1	ATI
MW-3	02/26/96	335.13	5.15	329.98	---	---	---	---	---	---	---	---	---	---	---
MW-3	05/23/96	335.13	7.26	327.87	---	---	---	---	---	---	---	---	---	---	---
MW-3	08/23/96	335.13	6.84	328.29	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<1.0	---	---	---	---
MW-3	12/02/96	335.13	8.61	326.52	---	---	---	---	---	---	---	---	---	6.8	SPL
MW-3	05/16/97	335.13	7.93	327.20	---	---	---	---	---	---	---	---	---	---	---
MW-3	08/22/97	335.13	8.97	326.16	---	---	---	---	---	---	---	---	---	---	---
MW-3	02/12/98	335.13	4.22	330.91	---	---	---	---	---	---	---	---	---	---	---
MW-3	02/23/98	335.13	4.13	331.00	---	---	---	---	---	---	---	---	---	---	---

cont. TABLE 1

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

WFLI ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TOG (ug/l)	HVOC (ug/l)	DO (ppm)	LAB
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	---	---	---	---	---	---	---	---	---	---	---
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	---	---	---	---	SUP
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	---	---	---	---	ANA
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	---	---	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	SEQ
AW-4	06/03/92	333.41	7.41	326.00	ND<50	---	---	---	---	---	---	---	---	---	---
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 (g)	02/10/93	333.41	---	---	---	---	---	---	---	---	---	---	---	---	ANA
AW-4 (g)	05/21/93	333.41	---	---	---	---	---	---	---	---	---	---	---	---	ANA
AW-4 (g)	08/12/93	333.41	---	---	---	---	---	---	---	---	---	---	---	---	---
AW-4	11/11/93	333.41	---	---	---	---	---	---	---	---	---	---	---	---	---
AW-4	11/15/93	---	8.00	325.41	---	---	---	---	---	---	---	---	---	---	---
AW-4	02/11/94	333.41	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---
AW-4	05/17/94	333.41	6.84	326.57	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
AW-4	06/20/94	333.41	6.54	326.87	---	---	---	---	---	---	---	---	---	---	PACE
AW-4	10/04/94	333.41	5.70	327.71	---	---	---	---	---	---	---	---	---	---	---
AW-4	11/18/94	333.41	8.04	325.37	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---
AW-4 (d)	02/15/95	333.41	6.80	326.61	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	2.0	PACE
AW-4	05/24/95	333.41	4.91	328.50	ND<50	(e)	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	---	---	6.1	PACE
AW-4	08/29/95	333.41	5.32	328.09	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	2.3	PACE
AW-4	11/28/95	333.41	7.26	326.15	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	ATI
AW-4	02/26/96	333.41	7.81	325.60	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0 (f)	---	---	4.9	ATI
AW-4	05/23/96	333.41	3.85	329.56	---	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0 (f)	---	---	9.1	ATI
AW-4	08/23/96	333.41	5.17	328.24	---	---	---	---	---	---	---	---	---	5.3	ATI
AW-4	12/02/96	333.41	4.73	328.68	---	---	---	---	---	---	---	---	---	---	---
AW-4	05/16/97	333.41	6.43	326.98	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	---
AW-4	08/22/97	333.41	5.87	327.54	---	---	---	---	---	---	---	---	---	5.7	SPL
AW-4	02/12/98	333.41	6.92	326.49	---	---	---	---	---	---	---	---	---	---	---
AW-4	02/23/98	333.41	3.99	329.42	---	---	---	---	---	---	---	---	---	---	---
AW-4		333.41	3.86	329.55	---	---	---	---	---	---	---	---	---	---	---

Cont Table 1

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)	MTBE (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 (h)	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	140 (f)	---	---	---	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	670 (f)	---	---	---	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	240 (f)	---	---	---	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 (h)	11/21/94	---	---	---	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 (e)	---	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 (e)	---	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	820 (f)	---	---	---	8.5 ATI
AW-5	11/28/95	334.81	9.32	325.49	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	700 (f)	---	---	---	4.1 ATI
AW-5	02/26/96	334.81	7.13	327.68	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	670 (f)	---	---	---	8.1 SPL
AW-5	05/23/96	334.81	8.58	326.23	60	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	620	---	---	---	4.9 SPL
AW-5	08/23/96	334.81	8.18	326.63	520	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	520	---	---	---	5.1 SPL
QC-1 (h)	08/23/96	---	---	---	490	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	280	---	---	---	SPL
AW-5	12/02/96	334.81	7.90	326.91	390	---	ND<0.5	ND<1	ND<1	ND<1	600	---	---	---	5.6 SPL
QC-1 (h)	12/02/96	---	---	---	360	---	ND<0.5	ND<1	ND<1	ND<1	600	---	---	---	SPL
AW-5	05/16/97	334.81	9.24	325.57	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	4.9 SPL
QC-1 (h)	05/16/97	---	---	---	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	SPL
AW-5	08/22/97	334.81	10.27	324.54	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	4.3 SPL
AW-5	02/12/98	334.81	7.57	327.24	---	---	---	---	---	---	---	---	---	---	---
AW-5	02/23/98	334.81	7.45	327.36	5000	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	5600	---	---	---	3.8 SPL

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 (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)	MTBE (ug/l)	TOG (ug/l)	HVOC (ug/l)	DO (ppm)	LAB
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	---	---	---	---	---	---	---	---	---	---
AW-6	05/14/91	334.90	8.38	326.52	90	---	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	SUP
AW-6	08/23/91	334.90	9.61	325.29	57	---	2	ND<0.3	ND<0.3	ND<0.3	---	---	---	---	SUP
AW-6	11/13/91	334.90	9.58	325.32	200	---	ND<0.5	0.7	1.3	4.6	---	---	---	---	ANA
AW-6	02/25/92	334.90	8.00	326.90	19000	---	ND<0.3	ND<0.3	ND<0.3	0.94	---	---	---	---	SEQ
AW-6	03/05/92	334.90	7.98	326.92	14000	---	8000	4700	600	2400	---	---	---	---	SEQ
AW-6	04/15/92	334.90	8.33	326.57	1100	---	5200	2500	550	2200	---	---	---	---	SEQ
AW-6	06/03/92	334.90	8.91	325.99	77	---	400	ND<3.0	30	ND<3.0	---	---	---	---	SEQ
AW-6	08/12/92	334.90	9.61	325.29	80	---	4.4	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	ANA
AW-6	11/10/92	334.90	10.10	324.80	450	---	4.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	ANA
AW-6	02/10/93	334.90	7.13	327.77	14000	---	120	2.1	4.5	9.7	---	---	---	---	ANA
QC-1 (h)	02/10/93	---	---	---	12000	---	610	17	15	720	14000 (f)	---	---	---	PACE
AW-6	05/21/93	334.90	7.64	327.26	7900	---	520	15	13	810	17000 (f)	---	---	---	PACE
QC-1 (h)	05/21/93	---	---	---	7500	---	900	ND<12	20	ND<12	8000 (f)	---	---	---	PACE
AW-6	08/12/93	334.90	8.64	326.26	26000	---	620	ND<10	13	ND<10	7700 (f)	---	---	---	PACE
QC-1 (h)	08/12/93	---	---	---	27000	---	450	14	250	48	---	---	---	---	PACE
AW-6	11/11/93	334.90	8.67	326.23	---	---	510	43	270	42	---	---	---	---	PACE
AW-6	11/12/93	---	---	---	---	---	---	---	---	---	---	---	---	---	---
QC-1 (h)	11/12/93	---	---	---	62000	---	4600	420	310	1100	---	---	---	---	---
AW-6	02/11/94	334.90	8.04	326.86	63000	---	4100	360	290	1000	---	---	---	---	PACE
QC-1 (h)	02/11/94	---	---	---	140000	---	21000	25000	1100	13000	50000 (f)	---	---	---	PACE
AW-6	05/17/94	334.90	7.68	327.22	110000	---	17000	21000	770	10000	-47000 (f)	---	---	---	PACE
AW-6	06/20/94	334.90	7.82	327.08	---	---	---	---	---	---	---	---	---	---	---
QC-1 (h)	06/20/94	---	---	---	42000	---	2700	1300	1900	9100	6400 (f)	---	---	---	---
AW-6	10/04/94	334.90	9.33	325.57	41000	---	2800	1400	1900	8900	6600 (f)	---	---	2.1	PACE
QC-1 (h)	10/04/94	---	---	---	14000	---	2100	77	1000	760	---	---	---	---	PACE
AW-6 (d)	11/18/94	334.90	7.17	327.73	14000	---	14000	77	1100	790	---	---	---	6.1	PACE
AW-6	02/15/95	334.90	6.19	328.71	50000	---	2100	77	1100	790	---	---	---	---	PACE
QC-1 (h)	02/15/95	---	---	---	25000 (e)	---	53	1400	1200	4400	---	---	---	3.3	PACE
AW-6	05/24/95	334.90	6.87	328.03	25000 (e)	---	53	1400	1200	4400	---	---	---	---	ATI
QC-1 (h)	05/24/95	---	---	---	14000 (e)	---	730	140	570	1100	---	---	---	---	ATI
AW-6	08/29/95	334.90	8.38	326.52	15000 (e)	---	750	140	570	1100	---	---	---	5.7	ATI
QC-1 (h)	08/29/95	---	---	---	8300	---	430	ND<10	340	40	2600 (f)	---	---	---	ATI
AW-6	11/28/95	334.90	9.20	325.70	9400	---	430	12	360	37	2200 (f)	---	---	8.9	ATI
QC-1 (h)	11/28/95	---	---	---	4700	---	300	13	61	ND<20	3600	---	---	---	ATI
AW-6	02/26/96	334.90	5.78	329.12	5200	---	310	12	78	ND<20	3800	---	---	3.0	ATI
QC-1 (h)	02/26/96	---	---	---	3600	---	17	29	110	1100	68	---	---	---	ATI
AW-6	05/23/96	334.90	6.94	327.96	3600	---	17	28	100	1050	63	---	---	8.0	SPL
QC-1 (h)	05/23/96	---	---	---	1800	---	390	ND<2.5	76	49	560	---	---	---	SPL
AW-6	08/23/96	334.90	6.50	328.40	1800	---	380	ND<2.5	72	44	550	---	---	5.2	SPL
AW-6	12/02/96	334.90	8.46	326.44	2300	---	54	ND<1.0	ND<1.0	ND<1.0	4240	---	---	---	SPL
AW-6	05/16/97	334.90	7.55	327.35	1500	---	27	ND<1.0	ND<1.0	ND<1.0	1700	---	---	6.3	SPL
AW-6	08/22/97	334.90	8.58	326.32	110	---	0.5	ND<1.0	ND<1.0	ND<1.0	33	---	---	7.2	SPL
QC-1 (h)	08/22/97	---	---	---	100	---	16	ND<1.0	ND<1.0	3	2900	---	---	4.3	SPL
AW-6	02/12/98	334.90	4.50	330.40	100	---	18	ND<1.0	ND<1.0	ND<1.0	2500 (j)	---	---	6.3	SPL
AW-6	02/23/98	334.90	5.02	329.88	---	---	---	---	---	---	---	---	---	---	SPL
QC-1 (h)	02/23/98	---	---	---	ND<50	---	---	---	---	---	---	---	---	---	---
					ND<50	---	---	---	---	---	---	---	---	---	---
					---	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<1.0	---	---	---	---
					---	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<1.0	---	---	5.7	SPL
					---	---	---	---	---	---	---	---	---	---	SPL

cont. Table 1



TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

ABBREVIATIONS

TPH-G	Total petroleum hydrocarbons as gasoline
TPH-D	Total petroleum hydrocarbons as diesel
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total xylenes
MTBE	Methyl tert butyl ether
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/available/analyzed/measured
ANA	Anametix, Inc
SUP	Superior Analytical Laboratory
SEQ	Sequoia Analytical Laboratory
PACE	Pace, Inc
ATI	Analytical Technologies, Inc
SPL	Southern Petroleum Laboratories

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) MTBE peak present. See historical MTBE documentation in Appendix C of Alisto report 10-017-06-003.
- (f) A copy of the documentation for this data is included in Appendix C of Alisto report 10-017-06-003.
- (g) Well buried.
- (h) Blind duplicate.
- (i) Concentration revised by analytical laboratory after correction of incorrect calculation.
- (j) Travel blank.

Blaine Tech Services, Inc. began routine monitoring on March 21, 2001. Previous data supplied by Alisto Engineering Group.

Cont. Table 7



TABLE 2 - SUMMARY OF RESULTS OF TANK CAVITY WATER SAMPLING  
 SERVICE STATION NO. 11116  
 7197 VILLAGE PARKWAY, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-017

CONSTITUENTS	UNITS	MDL	W-1
DATE OF SAMPLING			08/02/98
Cyanide-Reactive	mg/kg	1	ND
Sulfide-Reactive	mg/kg	10	ND
pH	pH Units	—	7.22
Flash Points	Degree F	—	>210
Antimony, Sb	mg/l	0.1	ND
Arsenic, As	mg/l	0.1	ND
Barium, Ba	mg/l	0.005	0.473
Beryllium, Be	mg/l	0.003	ND
Cadmium, Cd	mg/l	0.005	ND
Chromium, total, Cr	mg/l	0.01	ND
Cobalt, Co	mg/l	0.01	ND
Copper, Cu	mg/l	0.01	0.01
Lead, total, Pb	mg/l	0.005	ND
Mercury, Hg	mg/l	0.0002	ND
Molybdenum, Mo	mg/l	0.02	0.1
Nickel, Ni	mg/l	0.02	0.03
Selenium, Se	mg/l	0.1	ND
Silver, Ag	mg/l	0.01	ND
Thallium, Tl	mg/l	0.1	ND
Vanadium, V	mg/l	0.005	0.02
Zinc, Zn	mg/l	0.02	1.16
Benzene	ug/l	5	18
MTBE	ug/l	250	4400
LAB	SPL		

ABBREVIATIONS

mg/l	Milligrams per liter
ug/l	Micrograms per liter
MDL	Method detection limit
MTBE	Methyl tert butyl ether
—	Not applicable
ND	Not detected above reported detection limit
SPL	SPL Laboratory

**Table 1**  
**Historical Groundwater Elevation and Analytical Data**  
**Petroleum Hydrocarbons and Their Constituents**  
**1995 - Present\*\***

**ARCO Service Station 6041**  
**7249 Village Parkway, Dublin, California**

Well Number	Date Gauged	FOC	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation (ft-MSL)	Date Sampled	TPH				Total Xylenes (µg/L)	MTBE 8021B* (µg/L)	MTBE 8260 (µg/L)	Dissolved Oxygen (mg/L)	Purged/ Not Purged (P/NP)
		Elevation (ft-MSL)					Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)					
Shell MW-6	12-27-00	NR	9.13	0.00	NR	12-27-00	74.7	<0.500	<0.500	<0.500	<0.500	<2.50		1.30	P
DUP	12-27-00	NR	NR	NR	NR	12-27-00	79.3	<0.500	<0.500	<0.500	<0.500	<2.50		NR	
Shell MW-6	02-09-01	NR	9.05	0.00	NR	02-09-01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50		1.29	P
Shell MW-7	12-27-00	NR	6.45	0.00	NR	12-27-00	<50.0	<0.500	0.696	<0.500	0.795	<2.50		1.33	P
Shell MW-7	02-09-01	NR	6.39	0.00	NR	02-09-01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50		1.13	P

Notes

FOC top of casing

ft-MSL elevation in feet relative to mean sea level

TPH total petroleum hydrocarbons, California DHS LUFT Method

BTEX benzene, toluene, ethylbenzene, total xylenes by EPA method 8021B. (EPA method 8020 prior to 03/01/00).

MTBE Methyl tert-butyl ether

EPA United States Environmental Protection Agency

\* EPA method 8020 prior to 03/01/00

µg/L micrograms per liter

mg/L milligrams per liter

ND none detected

NR not reported, data not available or not measurable

not analyzed or not applicable

< denotes concentration not present at or above laboratory detection limit stated to the right.

\*\* For previous historical groundwater elevation and analytical data please refer to Fourth Quarter 1995 Groundwater Monitoring Program Results, ARCO Service Station 6041, Dublin, California, (LACON, February 26, 1996)

TABLE E-1. VADOSE-ZONE SOIL SCREENING LEVELS FOR PROTECTION OF INDOOR AIR QUALITY  
(volatile chemicals only)

CHEMICAL	Physical State		Molecular Weight	Henry's Law constant (atm·m <sup>3</sup> /mol)	Residential		Occupational	
					Soil (Coarse Soils) (mg/kg)	Soil (Fine Soils) (mg/kg)	Soil (Coarse Soils) (mg/kg)	Soil (Fine Soils) (mg/kg)
ACENAPHTHENE	V	S	154	1.55E-04	1.2E+03	3.3E+05	4.0E+03	>1E+06
ACENAPHTHYLENE	V	S	152	1.45E-03	-	-	-	-
ACETONE	V	L	58	3.88E-05	4.3E+01	3.8E+03	1.4E+02	1.3E+04
ALDRIN	NV	S	365	4.96E-05	-	-	-	-
ANTHRACENE	V	S	178	6.51E-05	7.0E+04	>1E+06	>1000000	>1000000
ANTIMONY	NV	S	122	-	-	-	-	-
ARSENIC	NV	S	75	-	-	-	-	-
BARIUM	NV	S	137	-	-	-	-	-
BENZENE	V	L	78	5.56E-03	**0.18	**0.18	**0.39	**0.39
BENZO(a)ANTHRACENE	NV	S	228	5.50E-03	-	-	-	-
BENZO(b)FLUORANTHENE	NV	S	252	1.22E-05	-	-	-	-
BENZO(k)FLUORANTHENE	NV	S	252	3.87E-05	-	-	-	-
BENZO(g,h,i)PERYLENE	NV	S	276	1.44E-07	-	-	-	-
BENZO(a)PYRENE	NV	S	252	4.90E-07	-	-	-	-
BERYLLIUM	NV	S	9	-	-	-	-	-
BIPHENYL 1,1	V	S	150	3.00E-04	-	-	-	-
BIS(2-CHLOROETHYL)ETHER	V	L	142	1.80E-05	1.5E-02	3.1E+00	6.1E-02	1.3E+01
BIS(2-CHLOROISOPROPYL)ETHER	V	L	171	1.10E-04	-	-	-	-
BIS(2-ETHYLHEXYL)PHTHALATE	NV	S	391	3.00E-07	-	-	-	-
BORON	NV	S	11	-	-	-	-	-
BROMODICHLOROMETHANE	V	L	164	1.60E-03	2.5E-02	9.5E-01	9.8E-02	4.0E+00
BROMOFORM	NV	S	253	5.32E-04	-	-	-	-
BROMOMETHANE	V	G	95	6.20E-03	-	-	-	-
CADMIUM	NV	S	112	-	-	-	-	-
CARBON TETRACHLORIDE	V	L	154	3.00E-02	2.1E-02	5.9E-02	7.4E-02	2.5E-01
CHLORDANE	NV	S	410	4.79E-05	-	-	-	-

Table 9

## BORING LOG

Project No. KEI-P88-1206	Boring & Casing Diameter 9"                      2"	Logged By D.L.
Project Name Mobil, Dublin, Village Pkwy.	Well Head Elevation N/A	Date Drilled 8/29/89
Boring No. MW1	Drilling Method Hollow-stem Auger	Drilling Company EGI

Penetration blows/6"	G. W. level	Depth (ft) Samples	Strati- graphy USCS	Description
		0		A.C. Pavement Clay, sand and gravel: fill. Gravel to 8".
		5	CH ML SM	Clay, high plasticity, stiff, moist, black.  Silt, 10-15% clay, stiff, moist, dark gray. Silty sand, dense, moist, dark gray.
9/18/24		10	CH	Clay, high plasticity, stiff, moist, black, with cementation from 9-14', blocky.  Color change at 11' to very dark gray.
6/7/10		15		Clay, high plasticity, trace-20% silt and sand, stiff, moist, dark olive gray to very dark gray.
6/8/9	▼	20		

**B O R I N G   L O G**

Project No. KEI-P88-1206		Boring & Casing Diameter 9"    2"		Logged By D.L.	
Project Name Mobil, Dublin, Village Pkwy.		Well Head Elevation N/A		Date Drilled 8/29/89	
Boring No. MW1		Drilling Method Hollow-stem Auger		Drilling Company EGI	
Penetration blows/6"	G. W. level	Depth (ft) Samples	Strati- graphy USCS	Description	
		25	CH	<div style="border-left: 1px solid black; border-right: 1px solid black; height: 100px; width: 100%;"></div> <p>Clay, as above.</p> <p>-----</p> <p>Silty clay, high plasticity, stiff, moist, olive gray.</p>	
		30			
		35			
		40			
				TOTAL DEPTH 26'	

**B O R I N G   L O G**

<b>Project No.</b> KEI-P88-1206	<b>Boring &amp; Casing Diameter</b> 9"                      2"	<b>Logged By</b> D.L.
<b>Project Name</b> Mobil, Dublin, Village Pkwy.	<b>Well Head Elevation</b> N/A	<b>Date Drilled</b> 8/29/89
<b>Boring No.</b> MW3	<b>Drilling Method</b> Hollow-stem Auger	<b>Drilling Company</b> EGI

Penetra- tion blows/6"	G. W. level	Depth (ft) Samples	Strati- graphy USCS	Description
		0		A.C. Pavement Clay, sand and gravel: fill.
			CH	Clay, high plasticity, stiff, moist, black, silty above 3'.
10/16/22		5	ML	Silt, 10-15% clay, stiff, moist, dark gray.
				Clay, high plasticity, stiff, moist, very dark gray to black.
5/5/6		10	CH	Sandy clay, high plasticity, soft, moist to very moist, very dark gray, with cemented root holes, increasing with depth.
9/9/12				Silty clay, high plasticity, trace sand, firm, moist, dark olive gray, with cemented root holes, trace gravel below 13'.
4/7/9	▼	15		
				Clay, high plasticity, very stiff, moist, dark olive gray to very dark gray.
9/12/17		20		

**B O R I N G   L O G**

Project No. KEI-P88-1206		Boring & Casing Diameter 9"                          2"	Logged By D.L.
Project Name Mobil, Dublin, Village Pkwy.		Well Head Elevation N/A	Date Drilled 8/29/89
Boring No. MW3		Drilling Method          Hollow-stem Auger	Drilling Company EGI

Penetra- tion blows/6"	G. W. level	Depth (ft) Samples	Strati- graphy USCS	Description
				Clay, as above.
		25	CH	Silty clay, high plasticity, very stiff, moist, olive gray.
		30		
		35		
		40		
				TOTAL DEPTH 26'

ALTON GEOSCIENCE, Inc.  
LOG OF EXPLORATORY  
BORING



PROJECT NO. 30-095 DATE DRILLED 11/6/90  
CLIENT Mobil Oil Corporation  
LOCATION 7197 Village Pkwy, Dublin  
LOGGED BY B. Nagle APPROVED BY \_\_\_\_\_

BORING NO.  
AW-4  
WELL NO.  
AW-4

Page 1 of 2

FIELD SKETCH OF BORING LOCATION

TOP OF CASING ELEVATION 333.44

DRILLING METHOD Hollow stem auger HOLE DIAM. 10"  
SAMPLER TYPE Modified split spoon  
CASING DATA Perforations: 20-35'  
DRILLER West Hazmat

BLOWING PER FOOT (N)	CGI (PPM)	SAMPLE	DEPTH	WELL CONSTRUCTION OR BORING CLOSURE	USCS	PROFILE	WATER LEVEL			
							26'	8.51'		
							DATE	11/6/90	11/15/90	
							TIME	0930		
							DESCRIPTION			
			0	Street Box						
			2				SILTY CLAY; brown, damp to moist, moderate plasticity, stiff; minor lens of silty sand			
8, 5, 8	0		4							
			6		SM					
			8							
3, 4, 6	0		10		CL		Appearance of abundant rootlets; no sand lens			
			12							
4, 7, 10	0		14	4" sch. 40 PVC Casing						
			16				Appearance of occasional gravels to 1/2-inch diameter; no rootlets			
			18							
3, 4, 8	0		20				Appearance of minor sand; moisture change to moist			
			22							
5, 9, 9			24	4" sch. 40 PVC .010" Slot						
			26				Color change to mottled grayish brown and brown; moisture change to wet			
			28				Softer drilling at 28 feet			
3, 5, 11			30		SM		SILTY SAND; light brown, wet, medium dense			
			32							
			34		CL		SILTY CLAY; brown, damp to moist, low plasticity, very stiff			



ALTON GEOSCIENCE, Inc.  
LOG OF EXPLORATORY  
BORING



PROJECT NO. 30-095 DATE DRILLED 11/6/90  
 CLIENT Mobil Oil Corporation, USA  
 LOCATION 7197 Village Pkwy, Dublin  
 LOGGED BY B. Nagle APPROVED BY \_\_\_\_\_







BORING NO.  
AW-4  
WELL NO.  
AW-4

FIELD SKETCH OF BORING LOCATION

TOP OF CASING ELEVATION 333.4

DRILLING METHOD Hollow stem auger HOLE DIAM. 10"  
 SAMPLER TYPE Modified split spoon  
 CASING DATA Perforations: 20-35  
 DRILLER West Hazmat

BLOWS PER FOOT (N)	CGI (PPM)	SAMPLE	DEPTH	WELL CONSTRUCTION OR BORING CLOSURE	USGS	PROFILE	WATER LEVEL			
							DATE			
							TIME			
							DESCRIPTION			
5, 11, 12			34	End Cap						SILTY CLAY; brown, damp to moist, low plasticity, very stiff
			36							
			38							Boring terminated at 36.5'
			40							Free ground water encountered at approximately 26.5 feet below grade.
			42							
			44							
			46							
			48							
			50							

-  Portland Cement
-  Bentonite Pellets
-  Sample
-  Sand #3 Lonestar
-  Driven interval
-  Water level encountered during

**ALTON GEOSCIENCE, Inc.**  
**LOG OF EXPLORATORY BORING**



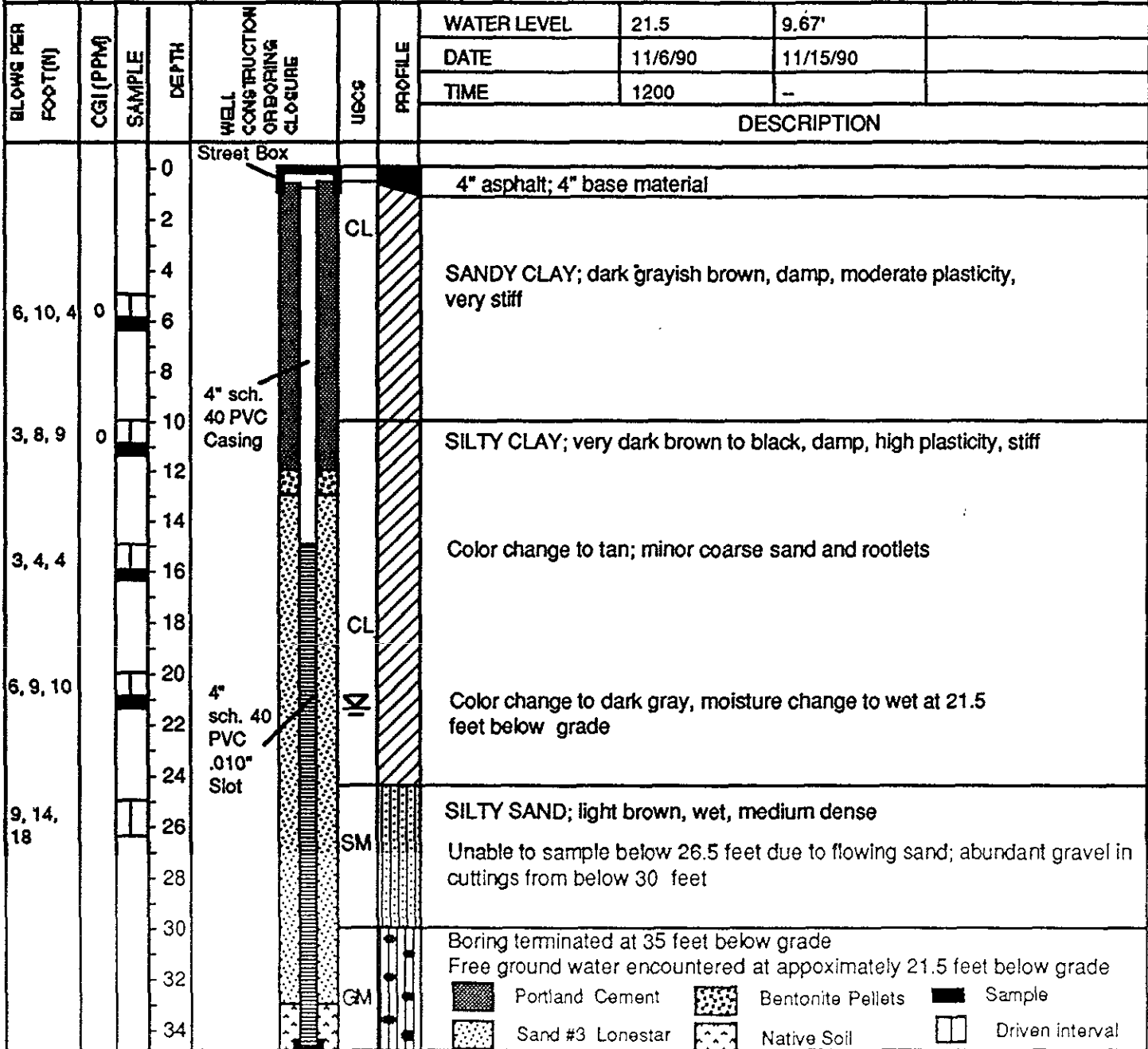
PROJECT NO. 30-095 DATE DRILLED 11/6/90  
 CLIENT Mobil Oil Corporation  
 LOCATION 7197 Village Pkwy, Dublin  
 LOGGED BY B. Nagle APPROVED BY \_\_\_\_\_

BORING NO. AW-5  
 WELL NO. AW-5

**FIELD SKETCH OF BORING LOCATION**

TOP OF CASING ELEVATION 334.81

DRILLING METHOD Hollow stem auger HOLE DIAM. 10"  
 SAMPLER TYPE Modified split spoon  
 CASING DATA Perforations: 15-35'  
 DRILLER West Hazmat



ALTON GEOSCIENCE, Inc.  
LOG OF EXPLORATORY  
BORING



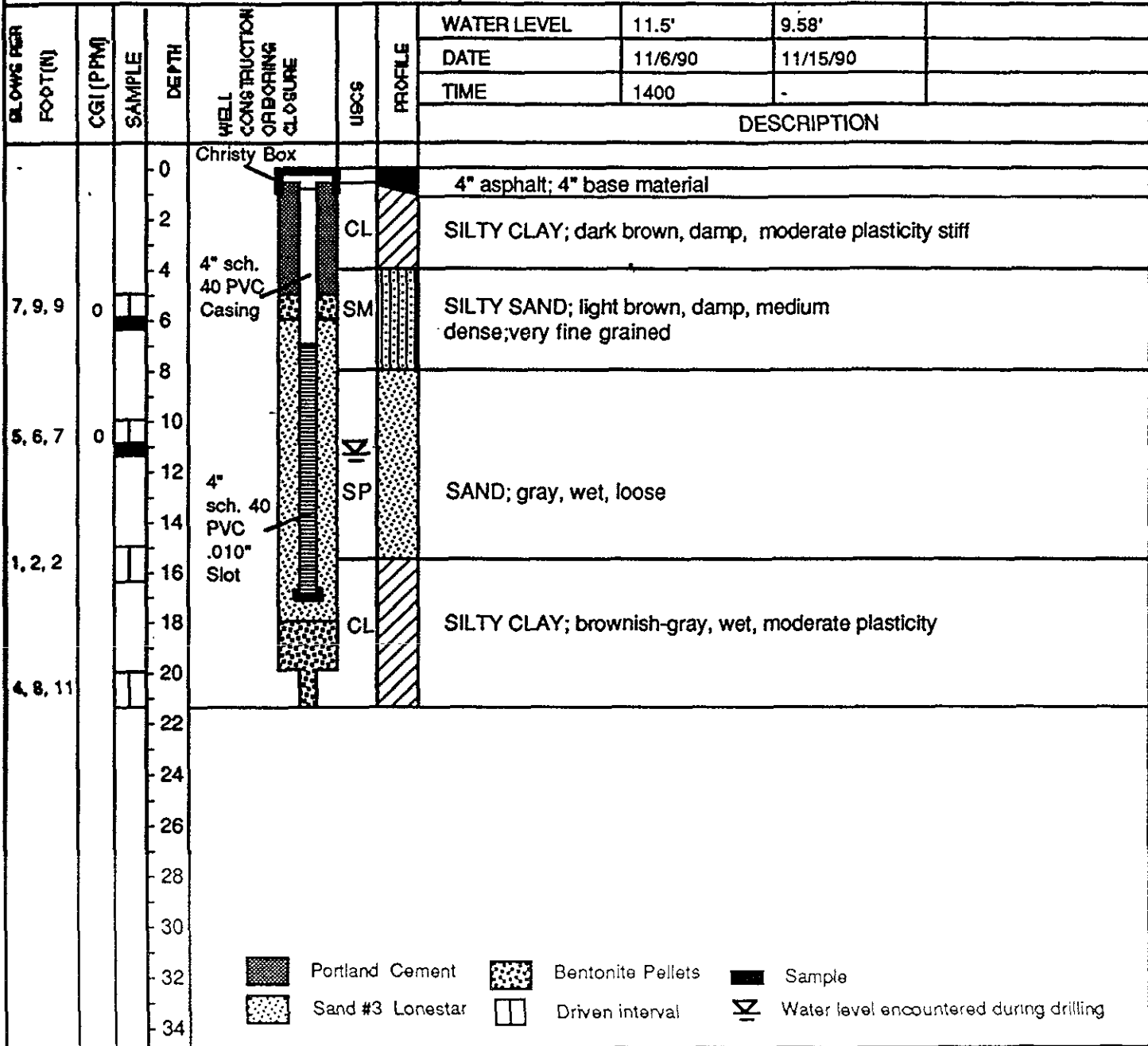
PROJECT NO. 30-095 DATE DRILLED 11/6/90  
CLIENT Mobil Oil Corporation  
LOCATION 7197 Village Pkwy, Dublin  
LOGGED BY B. Nagle APPROVED BY \_\_\_\_\_

BORING NO.  
AW-6  
WELL NO.  
AW-6

FIELD SKETCH OF BORING LOCATION

TOP OF CASING ELEVATION 334.93

DRILLING METHOD Hollow stem auger HOLE DIAM. 10"  
SAMPLER TYPE Modified split spoon  
CASING DATA Perforations: 7-17'  
DRILLER West Hazmat





ensco  
environmental  
services, Inc.

# EXPLORATORY BORING LOG

p 1 of 2

PROJECT NAME: FORMER SHELL STATION BORING NO. MW-6  
7194 AMADOR VALLEY  
BLVD., DUBLIN, CA

DATE DRILLED: 8/11/88

PROJECT NUMBER: 1826G

LOGGED BY: RAG

DEPTH (ft.)	SAMPLE No	BLOWS/FOOT 140 ft/lbs.	UNIFIED SOIL CLASSIFICATION	SOIL DESCRIPTION	WATER LEVEL	OVA READING ppm
1				Asphalt - 3", baserock - 11"		
2			CH	SILTY CLAY, black (10YR 2/1), some fine grained sands, no petroleum odor, high plasticity, moist		
3			CL	SILTY CLAY, very dark gray (10YR 3/1), some dark brown roots, faint petroleum odor, moderate plasticity, stiff, moist		
4			CL - SP	SANDY CLAY and SAND, dark gray 7.5YR 2/0), interbedded, fine grained sands, some roots, faint petroleum odor, stiff to medium dense, moist		0
5	MW-6-1	16				0
6			CL	SILTY CLAY, black (7.5YR 2/0) with light gray to white claystone/siltstone fragments, some roots, moderate plasticity, petroleum odor, very stiff, moist  8/26/88, Groundwater level - 9.69 ft.		10
7	MW-6-2	10				130
8	MW-6-3	16				125
9			CL	SILTY CLAY, dark grayish brown (10YR 4/7), some root holes/burrows, no petroleum odor, moderate plasticity, stiff, very moist  8/11/88, Groundwater encountered - 15 ft.		
10	MW-6-4	18				0
11	MW-6-5	14				
12						
13						
14						
15						
16	MW-6-6	12				
17						
18						
19						
20	MW-6-7	12				
21						

SUPERVISED AND APPROVED BY R.G./C.E.G. *LDP*



ensco  
environmental  
services, inc.

# EXPLORATORY BORING LOG

PROJECT NAME: FORMER SHELL STATION BORING NO.: MW-6  
7194 AMADOR VALLEY  
BLVD., DUBLIN, CA DATE DRILLED: 8/11/88  
PROJECT NUMBER: 1826G LOGGED BY: RAG

DEPTH (ft.)	SAMPLE No	BLOWS/FOOT 140 ft/lps.	UNIFIED SOIL CLASSIFICATION	SOIL DESCRIPTION	WATER LEVEL	OVA READING ppm
22	MW-6-8	22	CL	SILTY CLAY, dark grayish brown (10YR 4/4), some root hole/burrows, no petroleum odor, moderate plasticity, stiff, very moist		0
23			CL	SILTY CLAY, mottled light gray to olive gray (5Y 7/2 to 5Y 5/2), some fine grained sands locally up to 15%, no petroleum odor, moderate plasticity, very stiff, moist		
24						
25	Bottom of boring = 24.5 feet					
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						
41						
42						

SUPERVISED AND APPROVED BY R.G./C.E.G. *LDP*



ensco  
environmental  
services, Inc.

# EXPLORATORY BORING LOG

PROJECT NAME: FORMER SHELL STATION  
7194 AMADOR VALLEY  
BLVD., DUBLIN, CA

BORING NO. MW-7

DATE DRILLED: 8/11-12/88

PROJECT NUMBER: 1826G

LOGGED BY: RAG

DEPTH (ft.)	SAMPLE No	BLOWS/FOOT 140 ft/lbs.	UNIFIED SOIL CLASSIFICATION	SOIL DESCRIPTION	WATER LEVEL	OVA READING ppm
1				Asphalt - 3", baserock -11"		
2			CL	SANDY CLAY, dark grayish brown (10YR 4/2), fine grained sands up to 40%, no petroleum odor, moderate plasticity, stiff, moist		
3			CH	SILTY CLAY, very dark grayish brown (10YR 3/2), some fine to medium grained sands, no petroleum odor, moderately high plasticity, stiff, moist		
4						
5	MW-7-1	9	SC	CLAYEY SAND, light brownish gray (10YR 6/2), fine grained sands up to 50%, rounded gravels up to 0.5" across, no petroleum odor, stiff, moist		0
6						
7	MW-7-2	7	CL	SANDY CLAY, light brown (10YR 5/3), fine to medium sands up to 40%, rounded gravels up to 0.5" across, no petroleum odor, stiff, moist	▼	0
8	MW-7-3	9		SILTY CLAY, very dark gray (10YR 3/1) 8/26/88, with light gray to white claystone/ Groundwater siltstone fragments, roots and root holes, level - 7.94 ft.		0
9			CL	no petroleum odor, moderate plasticity, stiff, moist to very moist, some root holes contain "free" water		0
10	MW-7-4	14				0
11	MW-7-5	11				0
12			CL	SILTY CLAY, mottled gray to strong brown (7.5YR 5/0 to 7.5YR 5/6), roots and root holes, no petroleum odor, moderate plasticity, stiff, moist, some root holes contain "free" water		
13						
14				8/11/88, Groundwater encountered - 14 ft.	▽	
15						
16						0
17	MW-7-6	12				
18				Bottom of boring =17 feet		
19						
20						
21						

SUPERVISED AND APPROVED BY R.G./C.E.G. *LOP*

Depth of boring: 22-1/2 feet Diameter of boring: 10 inches Date drilled: 09/12/91  
 Well depth: 17-1/2 feet Material type: Sch 40 PVC Casing diameter: 4 inches  
 Screen interval: 14 to 17-1/2 feet Slot size: 0.020-inch  
 Drilling Company: Kvilhaug Drilling Driller: Rod and Brian  
 Method Used: Hollow-Stem Auger Field Geologist: Barbara Sieminski

Signature of Registered Professional: Dione M. Barclay  
 Registration No.: CEG 1366 State: CA

Depth	Sample No.	Blows	P.I.D.	USCS Code	Description	Well Const.
0					Paved area.	
				GP	Asphalt (6 inches).	
2				CL	Gravel, with some sand and clay, brown, damp, dense; baserock.	
4	S-4.5	10	34			
		28				
		28		SM	Sandy clay, with gravel, dark gray, damp, medium plasticity, hard.	
6					Silty sand, gray, damp, very dense; noticeable product odor.	
8					Moist at 9 feet.	
10	S-9.5	9	101			
		22		CL	Silty clay, black, damp, medium plasticity, hard; obvious product odor.	
		28				
12						
14	S-14.5	4	52		With gypsum crystals.	
		5				
		10		SC	Clayey sand, fine-grained, gray, wet, medium dense; noticeable product odor.	
16						
18	S-17.5	9	19			
		15		CL	Sandy clay, with some gravel, brownish-gray, damp, medium plasticity, hard.	
		20				

(Section continues downward)

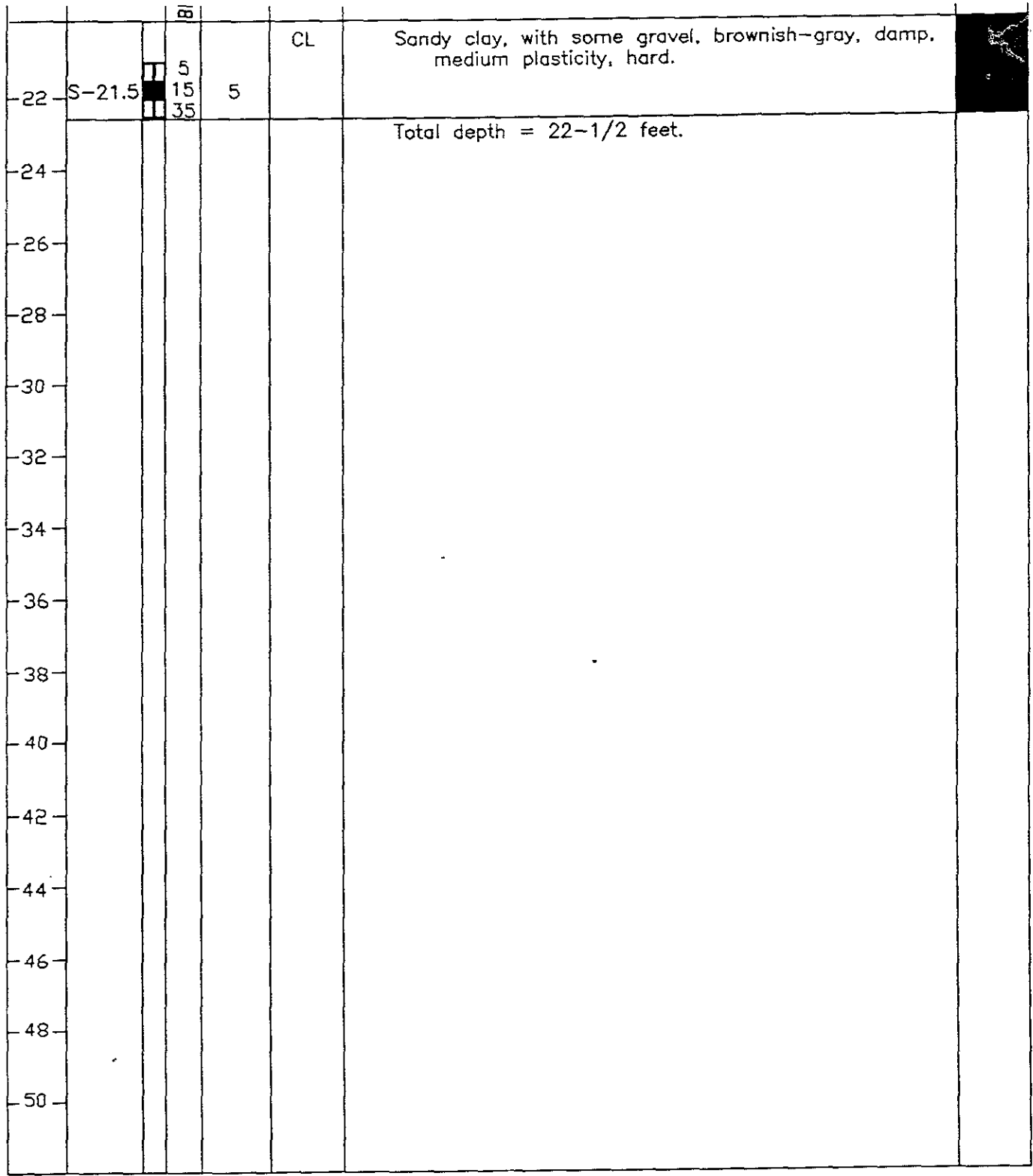
**RESNA**

LOG OF BORING B-1/MW-1  
 ARCO Service Station 6041  
 7249 Village Parkway  
 Dublin, California

PLATE

4

PROJECT: 60006.02



**RESNA**

PROJECT 60006.02

LOG OF BORING B-1/MW-1  
 ARCO Service Station 6041  
 7249 Village Parkway  
 Dublin, California

PLATE  
 5



Depth of boring: 16-1/2 feet Diameter of boring: 10 inches Date drilled: 09/13/91  
 Well depth: 14 feet Material type: Sch 40 PVC Casing diameter: 4 inches  
 Screen interval: 10-1/2 to 14 feet Slot size: 0.020-inch  
 Drilling Company: Kvilhaug Drilling Driller: Rod and Brian  
 Method Used: Hollow-Stem Auger Field Geologist: Barbara Sieminski  
 Signature of Registered Professional: *Diane M. Barclay*  
 Registration No.: CEG 1366 State: CA

Depth	Sample No.	Blows	P.I.D.	USCS Code	Description	Well Const.
0					Concrete slab.	
					Concrete (4 inches).	
				CH	Clay, black, damp, high plasticity, stiff.	
2				CL	Sandy clay, dark brown, damp, medium plasticity, hard.	
4	S-4.5	10 24 32	160			
6				SP	Sand, medium-grained, gray, damp, very dense; obvious product odor.	
8				CL	Silty clay, with fine gravel, dark gray, damp, medium plasticity, very stiff; obvious product odor.	
10	S-9.5	7 9 13	66	▼	Change to black, moist.	
12	S-11	3 5 5	137	SC	Clayey sand, fine-grained, dark gray, wet, loose; obvious product odor.	
14	S-14	4 6 8 10	0	CL	Sandy clay, with gravel, brownish-gray, wet, medium plasticity, stiff.	
16	S-15.5	18 10 24 30	0		Less sand and gravel, damp.	
					Hard.	
					Total depth = 16-1/2 feet.	

**RESNA**

LOG OF BORING B-2/MW-2  
 ARCO Service Station 6041  
 7249 Village Parkway  
 Dublin, California

PLATE

6

PROJECT: 60006.02

Depth of boring: 20-1/2 feet Diameter of boring: 10 inches Date drilled: 09/12/91  
 Well depth: 15 feet Material type: Sch 40 PVC Casing diameter: 4 inches  
 Screen interval: 12 to 15 feet Slot size: 0.020-inch  
 Drilling Company: Kvilhaug Drilling Driller: Rod and Brian  
 Method Used: Hollow-Stem Auger Field Geologist: Barbara Sieminski  
 Signature of Registered Professional: *Glenn M. Barclay*  
 Registration No.: CEG 1366 State: CA

Depth	Sample No.	Blows	P.I.D.	USCS Code	Description	Well Const.
0					Paved area.	
					Asphalt (6 inches).	
				GP	Gravel with sand and clay, brown, damp, medium dense;	
				CL	baserock.	
2					Sandy clay, dark gray, damp, medium plasticity, hard.	
4	S-4.5	7 12 30	3			
8				SM	Silty sand, dark gray, damp, medium dense.	
10	S-9.5	9 11 15	515	CL	Silty clay, black, damp, medium plasticity, hard; obvious product odor.	
12				SC	Clayey sand, fine-grained, dark gray, wet, loose; obvious product odor.	
14	S-13.5	3 6 8	75			
16	S-15	4 6 10	25	CL	Sandy clay, with gravel, brownish-gray, wet, medium plasticity, stiff; noticeable product odor. Moist at 16 feet.	
18						
20	S-19.5	8 12 20	5		Less gravel and sand, damp very stiff.	
Total depth = 20-1/2 feet						

**RESNA**

LOG OF BORING B-3/MW-3  
 ARCO Service Station 6041  
 7249 Village Parkway  
 Dublin, California

PLATE

7

PROJECT: 60006.02

Depth of boring: 18 feet Diameter of boring: 12 inches Date drilled: 10/26/92  
 Well depth: 15 feet Material type: Sch 40 PVC Casing diameter: 4 inches  
 Screen interval: 8-1/2 to 15 feet Filter pack: #3 Sand Slot size: 0.020-inch  
 Drilling Company: Exploration GeoServices Driller: John, Mike, and Dan  
 Method Used: Hollow-Stem Auger Field Geologist: Barbara Sieminski

Signature of Registered Professional [Signature]  
 Registration No.: RCE 044600 State: CA

Depth	Sample No.	Blows	P.I.D.	USCS Code	Description	Well Const.
0					Asphalt-covered surface.	
					Asphalt (4 inches).	
				GP	Sandy gravel, gray, damp, dense; baserock.	
				CL	Sandy clay, brown, damp, medium plasticity, stiff.	
2				SP	Sand, fine- to medium-grained, light brown, damp, medium dense; with roots.	
4						
6	S-5.5	6	NM			
		6		CL	Sandy clay, brown, damp, medium plasticity, stiff.	
8						
10	S-9.5	4	NM	SC	Clayey sand, fine- to coarse-grained, dark gray mottled white, moist to wet, medium dense; sand composed of gypsum crystals.	
		7				
	S-11	5	NM			
		6				
12						
		5				
14	S-13.5	4	NM		Decreasing clay.	
		4				
		5				
16	S-15.5	7	NM	CL	Sandy clay, trace gravel, brownish-gray, damp, medium plasticity, stiff.	
		8				
		7				
		8	NM			
18		11			Total depth = 18 feet.	
20					NM = Not measured due to OVM failure	



PROJECT 60006.04

LOG OF BORING B-4/MW-4  
 ARCO Service Station 6041  
 7249 Village Parkway  
 Dublin, California

PLATE  
 4

Depth of boring: 20-1/2 feet    Diameter of boring: 12 inches    Date drilled: 10/26/92  
 Well depth: 18 feet    Material type: Sch 40 PVC    Casing diameter: 4 inches  
 Screen interval: 11 to 18 feet    Filter pack: #3 Sand    Slot size: 0.020-inch  
 Drilling Company: Exploration GeoServices    Driller: John, Mike and Dan  
 Method Used: Hollow-Stem Auger    Field Geologist: Barbara Sieminski  
 Signature of Registered Professional: [Signature]  
 Registration No.: RCE 044600    State: CA

Depth	Sample No.	Blows	P.I.D.	USCS Code	Description	Well Const.
0					Asphalt-covered surface.	
				GP	Asphalt (4 inches).	
				CL	Sandy gravel, gray, damp, dense; baserock.	
2					Sandy clay, dark brown, damp, medium plasticity, hard.	
4						
6	S-5.5	8 18 25	NM		Increasing sand.	
				SC	Clayey sand, fine-grained, dark gray, damp to moist, dense.	
8	S-8.5	8 10 13	NM		Moist.	
				CL	Silty clay, black, damp, medium plasticity, very stiff.	
10	S-10	8 10 11	NM		Moist, with gypsum crystals.	
12	S-11.5	8 10 15	NM		Color change to dark gray.	
				SC/CL	Clayey sand, fine- to medium-grained, trace gravel, brown, wet, dense; interbedded with sandy clay, brown, moist, medium plasticity, very stiff.	
14	S-13.5	8 10 20	NM			
16	S-15	7 8 13	NM			
18				CL	Sandy clay, trace gravel, damp, brownish-gray, medium plasticity, very stiff.	
20	S-19.5	5 9 15	NM			
					Total depth = 20-1/2 feet.	
					NM = Not measured due to OVM failure	



LOG OF BORING B-5/MW-5  
 ARCO Service Station 6041  
 7249 Village Parkway  
 Dublin, California

PLATE

5

PROJECT 60006.04

Depth of boring: 19-1/2 feet Diameter of boring: 12 inches Date drilled: 10/26/92  
 Well depth: 16 feet Material type: Sch 40 PVC Casing diameter: 4 inches  
 Screen interval: 10 to 16 feet Filter pack: #3 Sand Slot size: 0.020-inch  
 Drilling Company: Exploration GeoServices Driller: John, Mike, and Dan  
 Method Used: Hollow-Stem Auger Field Geologist: Barbara Sieminski

Signature of Registered Professional: [Signature]  
 Registration No.: RCE 044600 State: CA

Depth	Sample No.	Blows	P.I.D.	USCS Code	Description	Well Const.
0					Asphalt-covered surface.	
					Asphalt (4 inches).	
				GP	Sandy gravel, gray, damp, dense; baserock.	
2				CL	Sandy clay, dark gray, damp, medium plasticity, stiff.	
4				SM	Silty sand, fine- to medium-grained, gray, damp, medium dense.	
6	S-5.5	6	NM			
		6				
		6				
8				CL	Silty clay, black, damp, medium plasticity, very stiff; with gypsum crystals.	
10	S-10.5	9	NM		With sand.	
		12			Moist.	
		18		SC/CL		
12	S-12.5	4	NM		Clayey sand, fine- to medium-grained, brownish-gray, wet, medium dense, interbedded with sandy clay, brownish-gray, moist, medium plasticity, stiff.	
		5				
		6				
16	S-15.5	8	NM	CL	Sandy clay, trace fine gravel, brownish-gray, damp, medium plasticity, very stiff.	
		9				
		15				
18	S-18.5	6	NM			
		12				
		13				
20					Total depth = 19-1/2 feet.	
					NM = Not measured due to OVM failure	

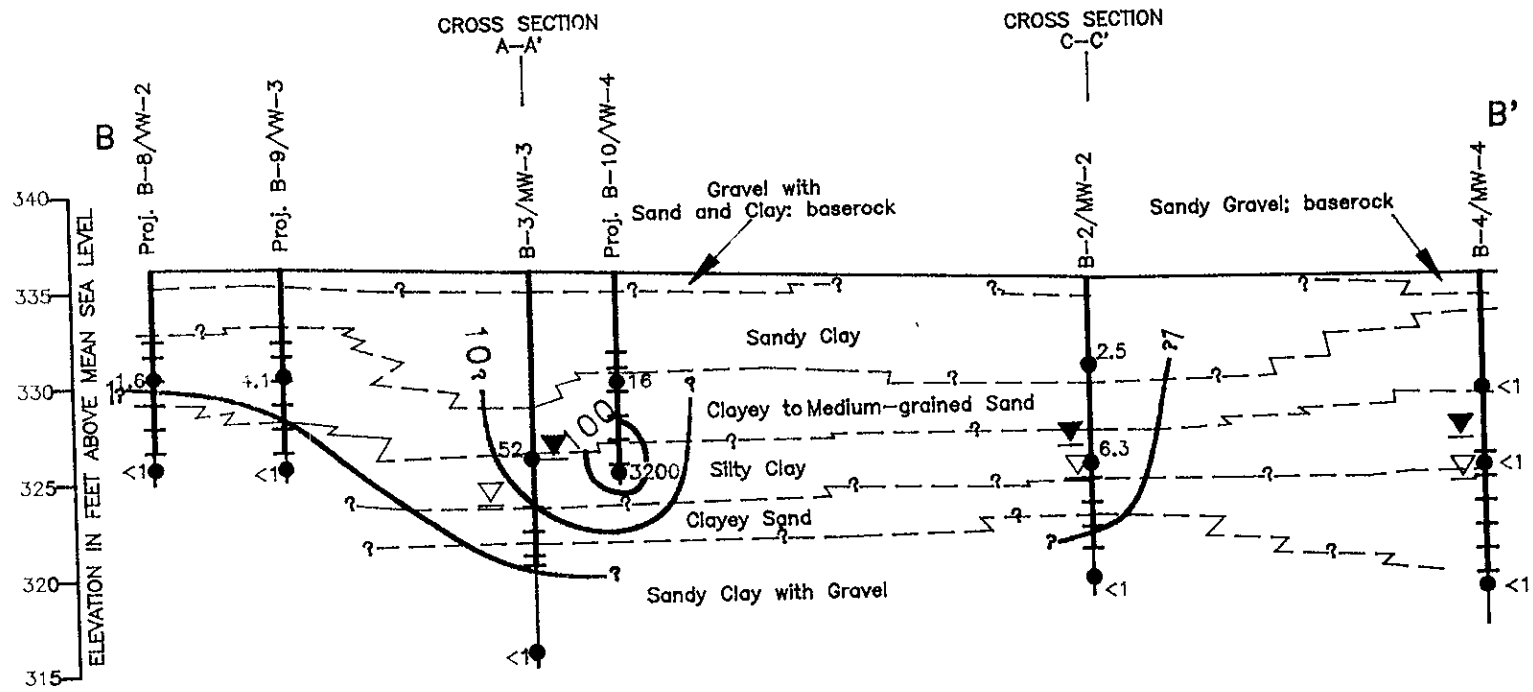


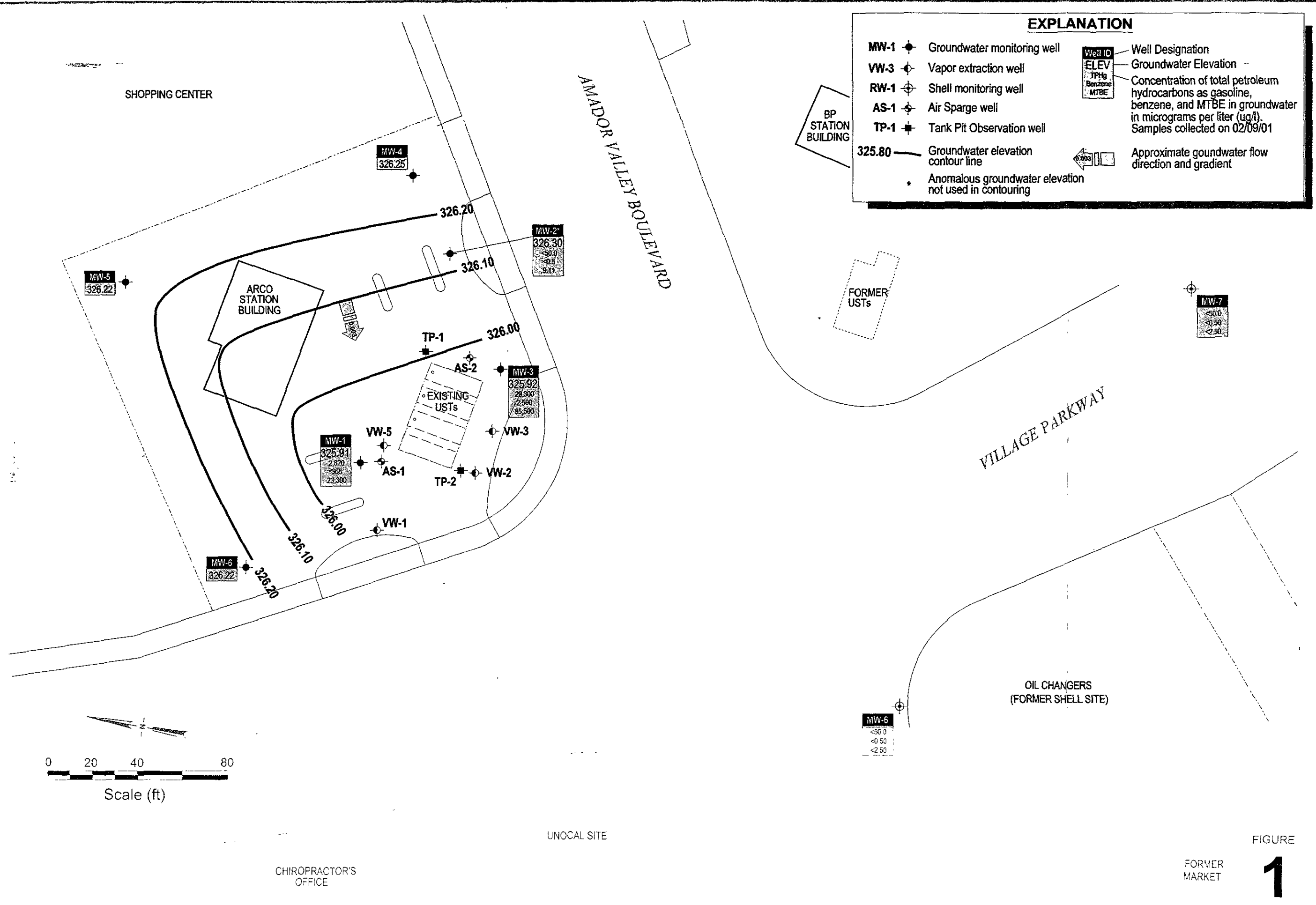
LOG OF BORING B-6/MW-6  
 ARCO Service Station 6041  
 7249 Village Parkway  
 Dublin, California

PLATE  
 6

PROJECT 60006.04





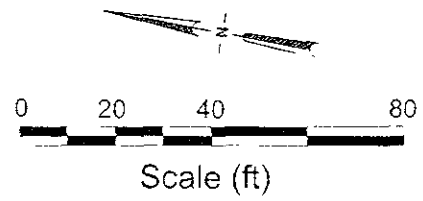


**EXPLANATION**

- MW-1 • Groundwater monitoring well
- VW-3 • Vapor extraction well
- RW-1 • Shell monitoring well
- AS-1 • Air Sparge well
- TP-1 • Tank Pit Observation well
- 325.80 — Groundwater elevation contour line
- \* Anomalous groundwater elevation not used in contouring

Well ID	Well Designation
ELEV	Groundwater Elevation
TPHg	Concentration of total petroleum hydrocarbons as gasoline, benzene, and MTBE in groundwater in micrograms per liter (ug/l). Samples collected on 02/09/01
Benzene	
MTBE	

← Approximate groundwater flow direction and gradient



1 - ARCO 6041 FIGURES - CMR/02/01/10/01 EDWS

CHIROPRACTOR'S OFFICE

UNOCAL SITE

FORMER MARKET

FIGURE 1