

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

November 25, 2002

Mr. Randy Smith  
Oil Changer  
P.O. Box 9037  
Pleasanton, CA 94566

Ms. Karen Petryna  
Shell Oil  
P.O. Box 7869  
Burbank, CA 91501-7869

Dear Mr. Smith and Ms. Petryna:

Subject: Fuel Leak Site Case Closure for Former Shell Service Station (Oil Changer #301) at 7194 Village Parkway, Dublin, CA 94568; Case No. R00000259

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 Health (ACEH) 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 1,900ppm TPH as gasoline, and 140ppm benzene exists in soil beneath the sidewalk (along Amador Valley Blvd and Village Parkway) and at the property boundary lines at approximately 7 feet bgs;
- A site health and 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 call Ms. eva chu at (510) 567-6762. Thank you.

Sincerely,

Donna L. Drogos, P.E.  
LOP Program Manager

Enclosures:

1. Case Closure Letter
2. Case Closure Summary

c: ✓ Ms. Betty Graham (w/enc)  
Regional Water Quality Control Board  
San Francisco Bay Region  
1515 Clay Street, Suite 1400  
Oakland, CA 94612

Mr. Toru Okamoto (w/enc)  
State Water Resources Control Board  
Underground Storage Tank Cleanup Fund  
P.O. Box 944212  
Sacramento, CA 94244-2120

Mr. Dennis Carrington (w/enc)  
City of Dublin, Planning Dept.  
100 Civic Plaza  
P.O.Box 2340  
Dublin, CA 94568

Mr. Matt Katen (w/enc)  
Zone 7, Flood Control & Water Conservation  
5997 Parkside Drive  
Pleasanton, CA 94588

Roseanna Garcia (w/enc)



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**REMEDIAL ACTION COMPLETION CERTIFICATION**

**RO-259 - 7194 Village Parkway, Dublin, CA  
(3-10K gallon and 2-280 gallon tanks removed in August 1987)**

November 13, 2002

Mr. Randy Smith  
Oil Changer  
P.O. Box 9037  
Pleasanton, CA 94566

Ms. Karen Petryna  
Shell Oil  
P.O. Box 7869  
Burbank, CA 91501-7869

Dear Mr. Smith and Ms. Petryna:

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

PB#01-1634

CASE CLOSURE SUMMARY  
Leaking Underground Fuel Storage Tank Program

FEB 14 2002

QUALITY CONTROL BOARD

I. AGENCY INFORMATION

Date: February 6, 2002

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.

MAR 05 2002

II. CASE INFORMATION

Site facility name: Former Shell Service Station (Oil Changer #301)  
Site facility address: 7194 Village Parkway, Dublin, CA 94568  
RB LUSTIS Case No: N/A Local Case No./LOP Case No.: R00000259  
URF filing date: 6/23/87 SWEEPS No: N/A

<u>Responsible Parties:</u>	<u>Addresses:</u>	<u>Phone Numbers:</u>
Randy Smith Oil Changer	P.O. Box 9037 Pleasanton, CA 94566	(510) 734-5816
Shell Oil c/o Karen Petryna	P.O. Box 7869 Burbank, CA 91501-7869	(559) 645-9306

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	10,000	Gasoline	Removed	Aug 1987
2	10,000	"	"	"
3	10,000	"	"	"
4	280	Waste Oil	"	"

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: **Unknown**  
Site characterization complete? **YES**  
Date approved by oversight agency:  
Monitoring Wells installed? **Yes** Number: **14 (13 MWs, 1 RW)**  
Proper screened interval? **Yes**  
Highest GW depth below ground surface: **5.60'** Lowest depth: **10.04'** in MW-1  
Flow direction: **NE to SE**  
Most sensitive current use: **Commercial**  
Are drinking water wells affected? **No** Aquifer name: **Dublin 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 Pkwy, Alameda, CA 94502**

**Treatment and Disposal of Affected Material:**

<u>Material</u>	<u>Amount (include units)</u>	<u>Action (Treatment or Disposal w/destination)</u>	<u>Date</u>
Tank & Piping	4 USTs	Unknown	Aug 1987
Soil	6,500 cy	Aerated and reused onsite	

**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)	1,900	1,900	200,000	65
TPH (Diesel)				
TOG	45			
Benzene	31	140	6,700	8.6
Toluene	22	48	880	2.0
Ethylbenzene	NA	40	830	0.9
Xylenes	60	260	780	0.68
MTBE				2.7

- NOTE:
- 1 Soil sample collected from sidewalls of gasoline UST pit (at approximately 11 feet bgs) after UST removal, Aug 1987. TOG from waste oil tank pit at 9 feet bgs.
  - 2 soil samples (TR-1 through TR-6) from final excavation at 6 inches above groundwater elevation, Feb 1988
  - 3 groundwater sample collected from well MW-1, 1988-89
  - 4 Groundwater samples collected from onsite wells, Aug 1996. Note that grab groundwater from boring B-3, advanced in 9/98, identified 120,000ppb TPHg and 19,000ppb benzene from the rear western property boundary, adjacent to the former Dutch Pride Dairy, and upgradient of all Shell source areas.

**IV. CLOSURE**

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? **Undetermined**

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? **Undetermined**

Does corrective action protect public health for current land use? **YES**

Site management requirements: **A Risk Management Plan has been submitted for the site that will be protective of construction workers.**

Should corrective action be reviewed if land use changes? **YES**

Monitoring wells Decommissioned: **Yes**

Number Decommissioned: **1** Number Retained: **13**

List enforcement actions taken: **None**

List enforcement actions rescinded: **NA**

**V. LOCAL AGENCY REPRESENTATIVE DATA**

Name: **Eva Chu** Title: **Haz Mat Specialist**

Signature:  Date: **2/11/02**

**Reviewed by**

Name: **Scott Seery** Title: **Haz Mat Specialist**

Signature:  Date: **2-11-02**

Name: **Barney Chan** Title: **Haz Mat Specialist**

Signature:  Date: **2/6/02**

**VI. RWQCB NOTIFICATION**

Date Submitted to RB: **2/14/02** RB Response: **Concurrence**

RWQCB Staff Name: **Chuck Headlee** Title: **AEG**

Signature:  Date: **2/20/02**

**VII. ADDITIONAL COMMENTS, DATA, ETC.**

The former Shell service station site was located on the southwest corner of the intersection of Amador Valley Boulevard and Village Parkway in Dublin. The site is currently occupied by an Oil Changers facility. (See Figs 1 and 2)

In August 1987 four USTs (3-10K gallon gasoline tanks in a common pit and 1-280 gallon waste oil tank in a separate pit) were removed. Following removal of the waste oil tank a soil sample (WO-1) was collected from native soil at approximately 9 feet bgs. The sample contained 45 ppm TOG. BTX and volatile organic compounds were not detected. No additional excavation was performed at the waste oil pit.

When the fuel USTs were removed, groundwater was encountered at approximately 11.5 feet bgs. Four sidewall soil samples (A1, B1, C1, and D1) were collected at approximately 11 feet bgs and analyzed for petroleum hydrocarbons. Up to 1,900 ppm TPHg and 31 ppm benzene were detected (see Fig 3, Table 1). Based on the initial soil sampling results, a series of ten (10) overexcavations were performed to delineate the extent of and to remove petroleum hydrocarbon-impacted soil. Almost the entire site was excavated to groundwater. Approximately 6,500 cy of soil was removed. These excavations took place between August 1987 and February 1988. Confirmatory soil samples collected from the sidewalls of the excavations (TR-1 through TR-6) at 6 inches above groundwater elevation contained TPHg concentrations ranging from 9.9 to 990 ppm, and benzene concentrations ranging from 2.3 to 140 ppm. (See Figs 4, 5 and Table 2)

Due to the proposed construction of the Oil Changer building, additional excavation ceased. The new building was constructed in the area where overexcavation had been completed. The building was constructed partially below grade (to approximately 7 feet bgs) and completed by the end of the summer of 1988. Soil vapor samples were later collected at the property boundary to determine the approximate location of residual hydrocarbons in soil (BTEX analyses was not performed). Based on the results of the soil gas survey, soil borings B-1 through B-6 were advanced along the streets (Amador Valley Blvd and Village Parkway) bordering the property. Boring B-5 and B-6 contained elevated TPHg (420 ppm) and benzene (9.8 ppm) concentrations at 6.5 to 8 feet bgs. Further offsite soil investigations were not pursued at the time due to ongoing soil and groundwater investigations at the remaining three corners of the same intersection, each an operating gasoline service station. (See Fig 6, Tables 3 and 4)

Excavated soils (6,500 cy) were aerated onsite in selected volumes. When acceptable petroleum hydrocarbons levels were achieved (<100ppm TPH and <1.0ppm benzene) through aeration, the soils were used as fill material to backfill the excavation.

In April 1988 four groundwater monitoring wells (MW-1 through MW-4) were installed. By February 1989 a total of 12 groundwater monitoring wells (MW-1 through MW-12) and one groundwater recovery well (RW-1) were installed, both on- and off-site to delineate the extent of the plume.

Groundwater has been sampled for five to six years. Cumulative groundwater data indicate that petroleum hydrocarbon concentrations in groundwater from the wells downgradient of the former tank and pump island locations (wells MW-1 and MW-6) are consistently decreasing over time. It appears extensive soil excavation activities and natural bioattenuation processes have been effective in remediating petroleum hydrocarbons in groundwater, as well as limiting the areal extent of petroleum hydrocarbons in the subsurface. The contaminant plume also appears limited in extent, based on low to non-detectable concentrations of TPHg/BTEX in offsite wells MW-2, MW-3, MW-7, and MW-11. (See Table 5 - Well Concentrations)

Groundwater data from well MW-10, installed at the adjoining property (former Dutch Pride Dairy), indicated an off-site source of contamination migrating onto the former Shell site. USTs near well MW-10 were identified and removed, destroying well MW-10 in the process. Elevated hydrocarbon levels were identified (up to 6,000 ppm TPHg and 0.019 ppm benzene) in soil. Hydrocarbon-impacted soil was overexcavated up to the property line between the former Shell site and the Dutch Pride Dairy sites. Well MW-13 was installed to replace previously destroyed well MW-10. Initial groundwater sampling results from well MW-13 identified up to 1,100 ppb TPHg and 430 ppb benzene.

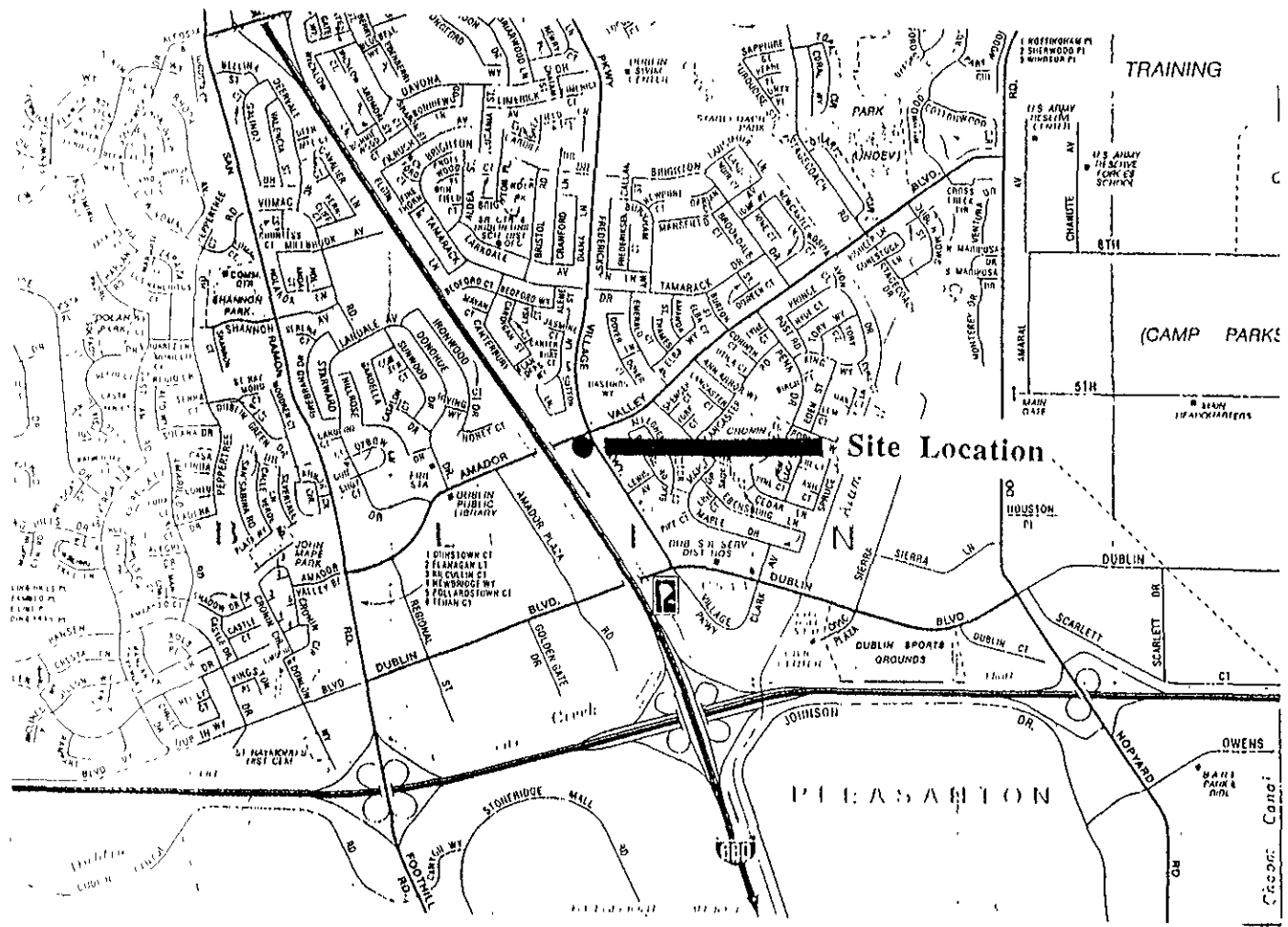
In September 1995, in order to delineate the extent of the dissolved hydrocarbon plume from the former Dutch Pride Dairy, three soil borings (B-1 through B-3) were installed near the south property line on the former Shell site. Soil sample S-1, taken from boring B-3 at a depth of 12 feet bgs contained 1,100 ppm TPHg and 8.4 ppm benzene. A grab water sample from this boring contained 120,000 ppb TPHg and 19,000 ppb benzene (see Fig 7, Tables 6, 7 and Boring Logs). It appears residual soil and groundwater contamination exists along the property line separating the former Shell and former Dutch Pride Dairy sites. Migration/leaching of the contaminants appear limited in extent based on low to non-detectable concentrations in downgradient wells MW-4, and MW-2, as well as other perimeter wells.

Residual benzene in soil is presently under the sidewalk and perimeter of the property, within and below the capillary fringe zone. Workers and customers will not be directly exposed to these soils due to the depth at which soil contamination remains (6.5 to 11 feet bgs), and the concrete/asphalt sidewalk and parking lot barriers. Volatilization of vapors from soil and/or groundwater into the Oil Changer building is not likely to occur since the portion of the building below grade is completely sealed with a sand-resin, providing water- and vapor-proofness (per John Reed for Oil Changers, 11/14/96). In addition, during normal daily operations, roll-up doors are raised on opposing sides of the building, facilitating flow-through air circulation. And, volatilization of vapor from groundwater to outdoor air does not pose a health risk based on RBCA Tier 1 Screen Level Look-Up Table.

In summary, case closure is recommended because:

- the leak and ongoing sources have been removed;  
*All USTs were removed. Nearly the entire site was excavated to groundwater. Approximately 6,500 cubic yards of impacted soil were removed, remediated by aeration, then re-used onsite..*
- the site has been adequately characterized;
- the dissolved plume is not migrating;  
*Perimeter wells are now exhibiting low to non-detectable levels of TPHg/BTEX. Offsite, downgradient wells have not detected TPHg/BTEX.*
- no water wells, surface water, or other sensitive receptors are likely to be impacted; and,
- the site presents no significant risk to human health or the environment.  
*A risk management plan has been submitted that will protect construction workers in the event of excavation/trenching in the area with residual hydrocarbon contamination.*





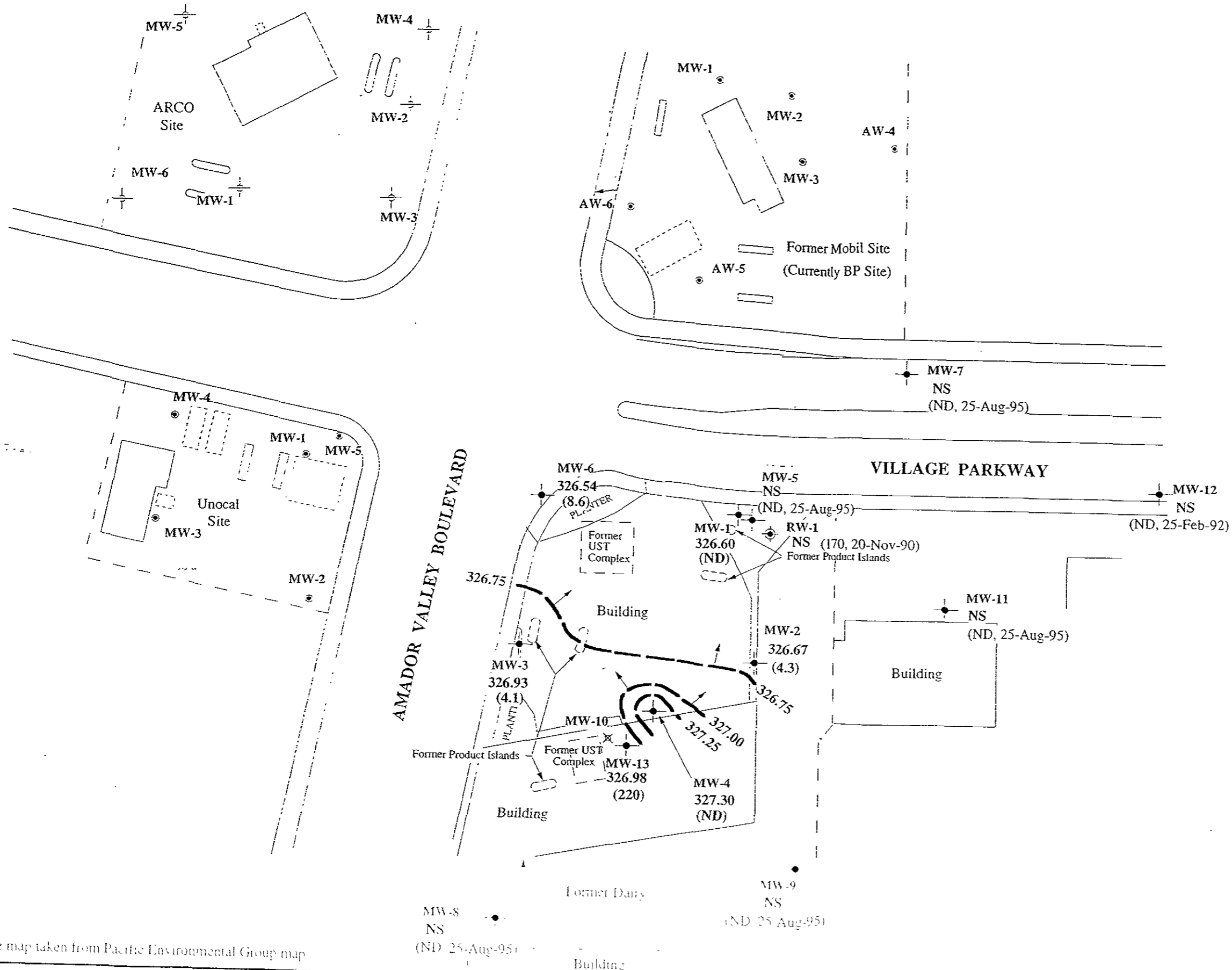
Note Vicinity Map taken from California State AAA map.

<p>PLATE</p> <p><b>1</b></p>	<p><b>SITE VICINITY MAP</b>          Shell Oil Company          7194 Amador Valley Boulevard          Dublin, California</p>	<p><b>enviros</b><sup>®</sup>          95285</p>
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<p>Drawn By: JLP</p>	<p>Date: 4-26-95</p>	
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<p>Approved By: <i>JLP</i></p>	<p>Date: 2-NOV-95</p>
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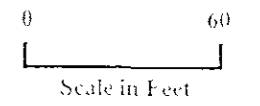
FIG 1



EXPLANATION	
	Shell Monitoring Well
	Unocal Monitoring Well
	Mobil Monitoring Well
	ARCO Monitoring Well
	Abandoned Well
	Recovery Well
	Groundwater elevation contour in feet reference to mean sea level (MSL). Arrows indicate approximate groundwater flow direction.
329.42	Ground water elevation in feet MSL
(0.8)	Benzene concentration in ppb
(ND, 25-Aug-95)	Last benzene concentration and date of last sampling
ND	Not detected
NS	Not sampled
Notes: Water levels measured on 23-Aug-96	
Approximate Hydraulic Gradient = 0.005	

Base map taken from Pacific Environmental Group map

**PLATE 2**  
**GROUND WATER CONTOUR/BENZENE CONCENTRATION MAP**  
 Former Shell Service Station  
 7194 Amador Valley Boulevard  
 Dublin California



Drawn By: BJ

Date: 10-15-88

Approved By:

Date: 10-15-88

*enviros*

0283

FIG 2



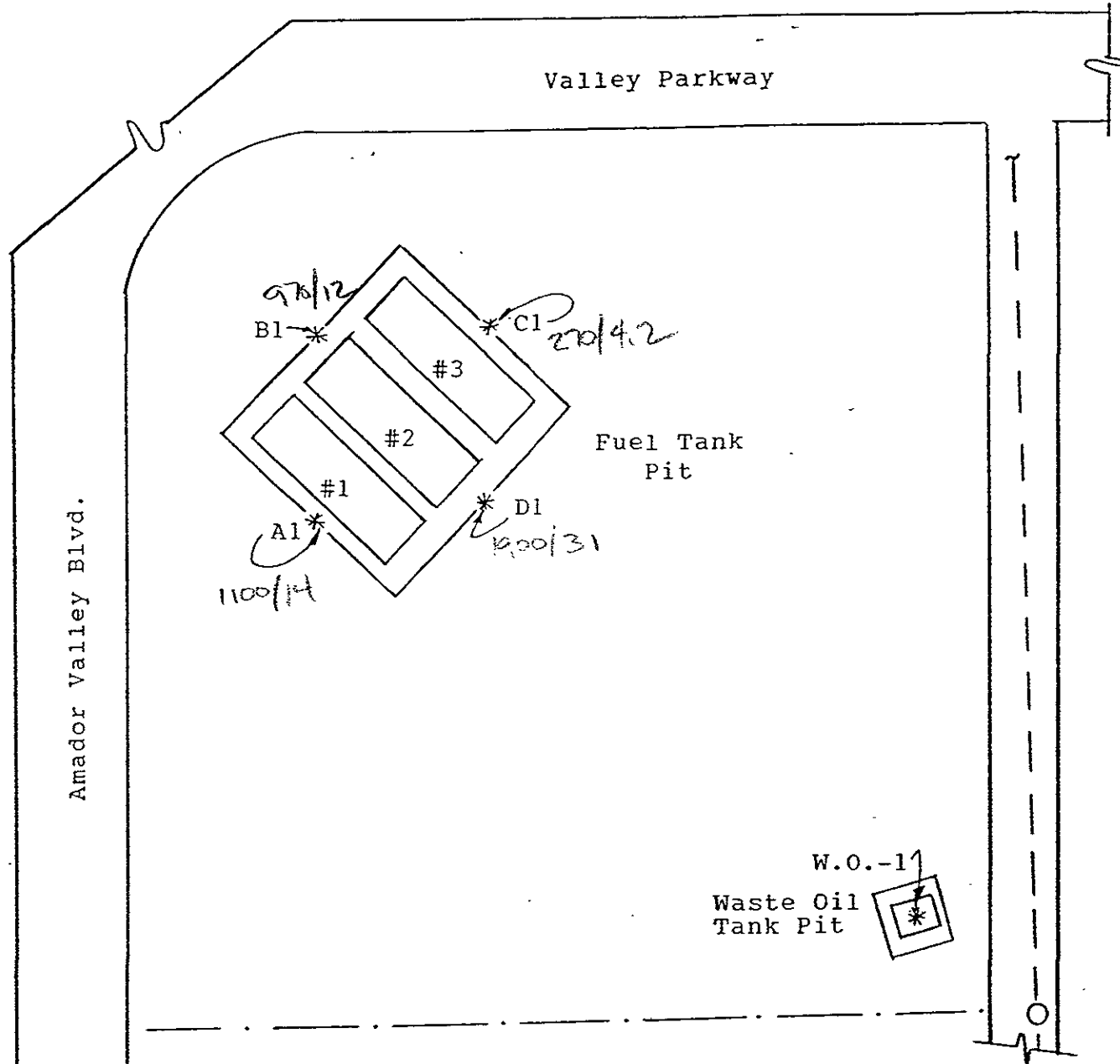
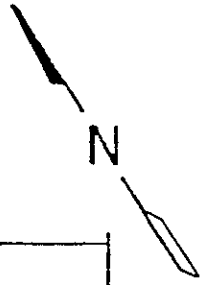
# KAPREALIAN ENGINEERING, INC.

Consulting Engineers

P. O. BOX 913

BENICIA, CA 94510

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



LOCATION PLAN  
(not to scale)

\* soil sample location

ABANDONED SHELL S/S  
7194 Amador Valley Blvd.  
Dublin, California

TABLE 1

SUMMARY OF LABORATORY ANALYSES

(Soil analyses in parts per million,  
Water analysis in parts per billion)

<u>Sample #</u>	<u>Type</u>	<u>Total Hydrocarbon</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylene</u>
A1	soil	1100	14	4.5	37
B1	soil	970	12	22	60
C1	soil	270	4.2	0.45	2.7
D1	soil	1900	31	5.5	36
W.O.-1*	soil	45	<0.05	<0.05	----
W1	water	85,000	1,400	3,600	11,000

\* Gravimetric waste oil for this sample was 45 ppm.



**KAPREALIAN ENGINEERING, INC.**

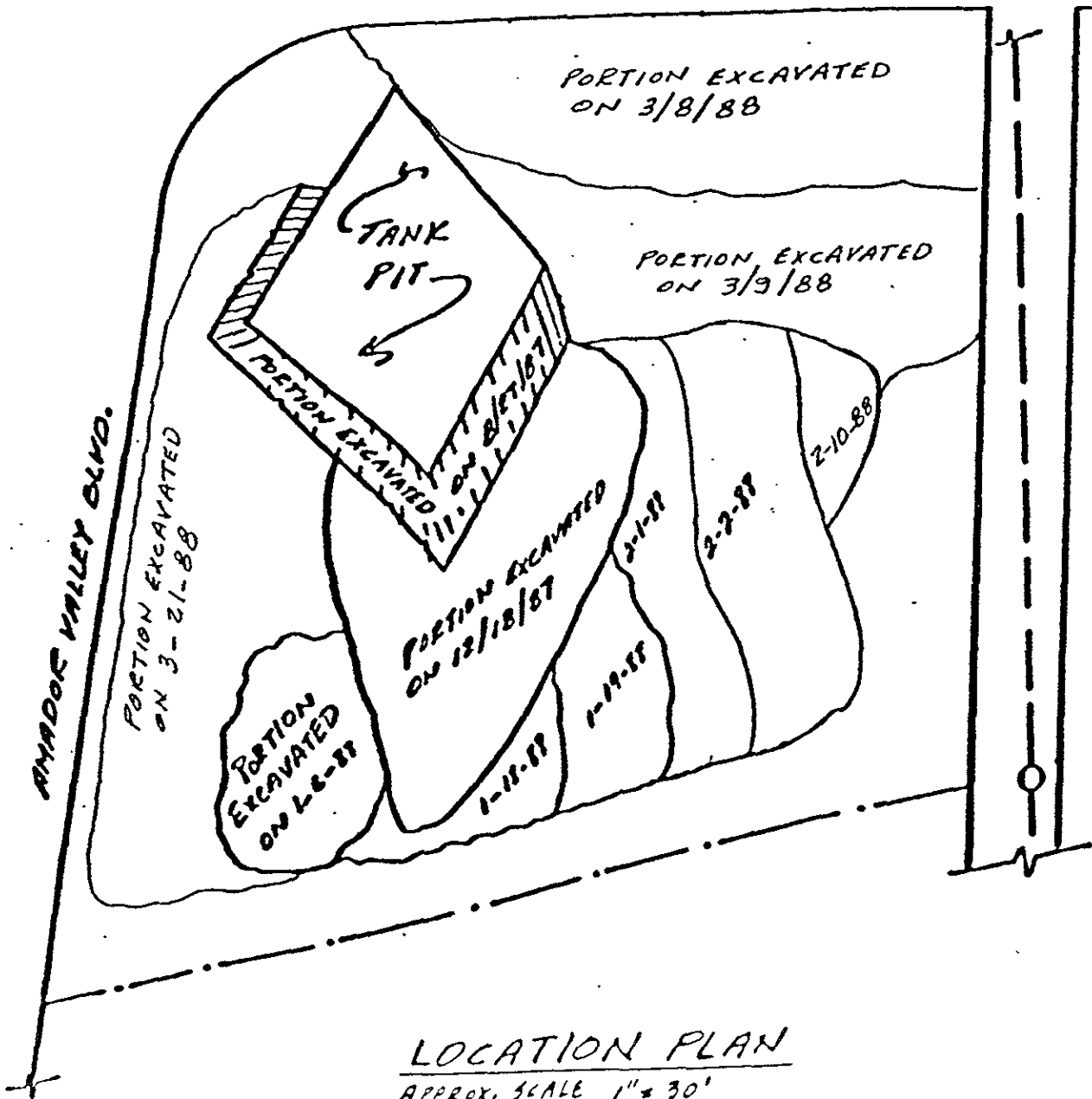
Consulting Engineers

P. O. BOX 913

BENICIA, CA 94510

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

VILLAGE  
VALLEY PARKWAY



LOCATION PLAN  
APPROX. SCALE 1" = 30'

SHELL SERVICE STATION  
7194 AMADOR VALLEY  
DUBLIN, CALIFORNIA

FIGURE 34



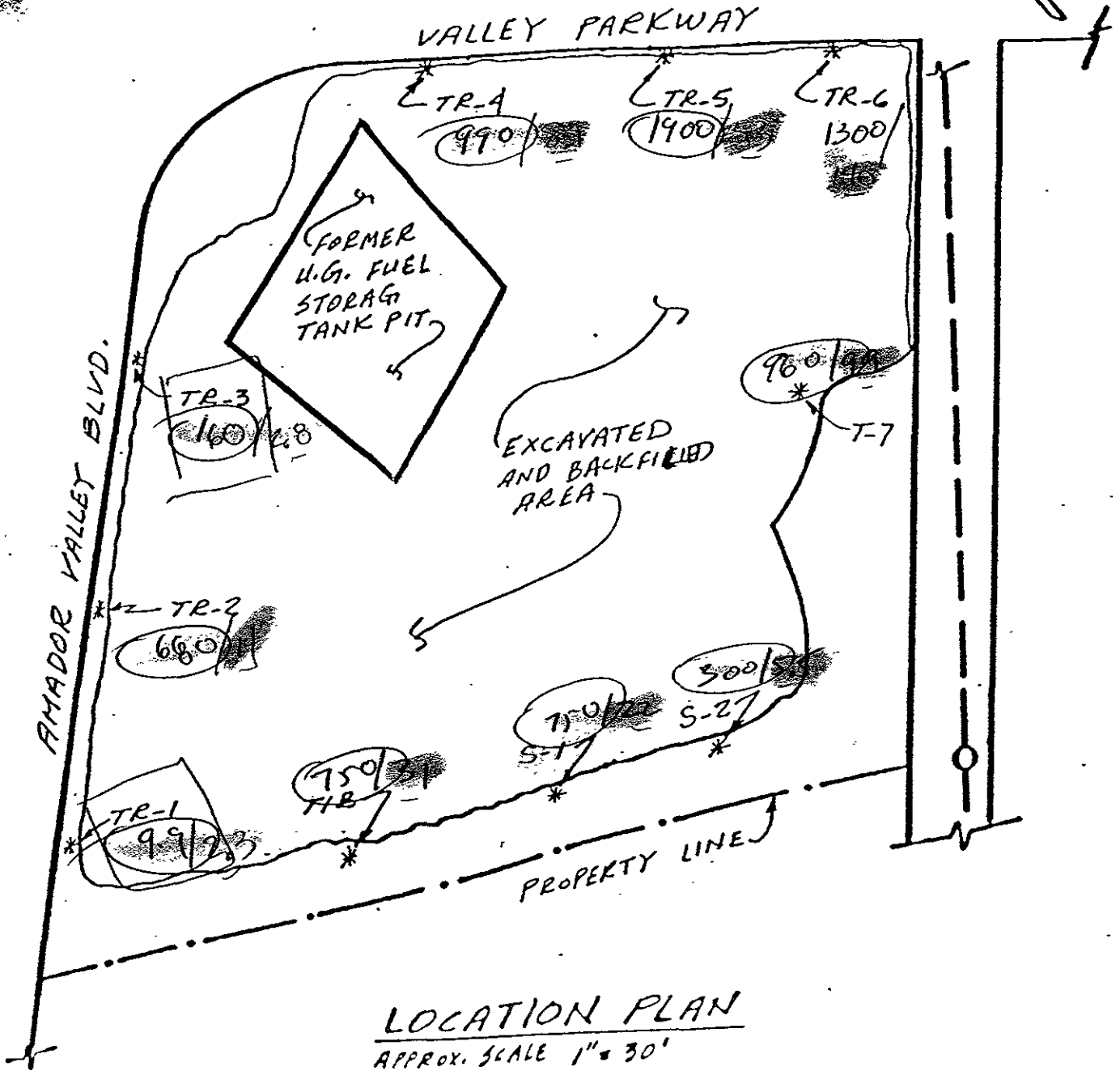
# KAPREALIAN ENGINEERING, INC.

Consulting Engineers

P. O. BOX 913

BENICIA, CA 94510

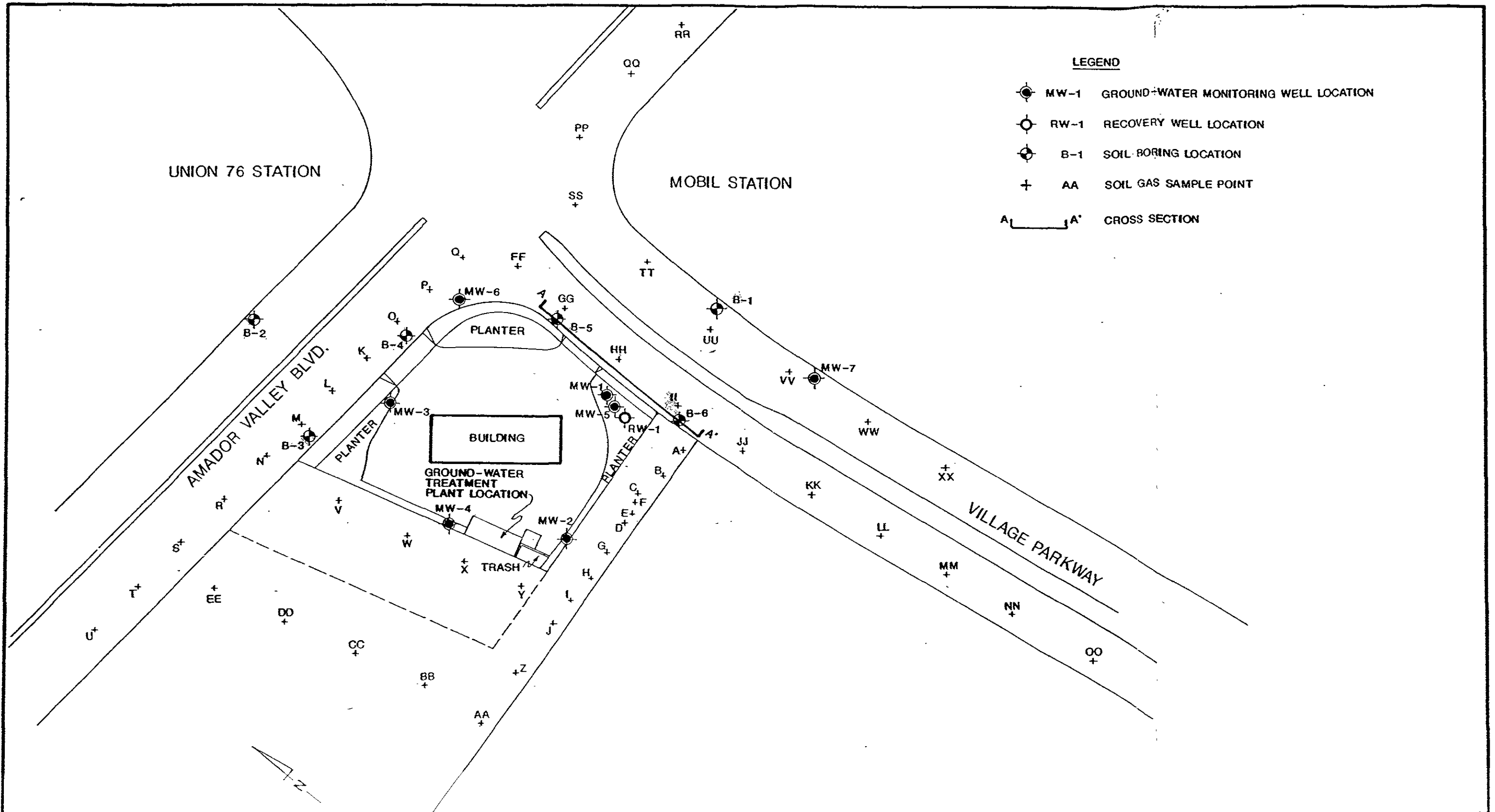
(415) 676-9100 (707) 746-6915



ppm TPH-G / ppm benzene  
collected 2/29/88

SHELL SERVICE STATION  
7194 AMADOR VALLEY BLVD  
DUBLIN, CALIFORNIA

FIGURE 5



<b>SITE PLAN</b>	
FORMER SHELL STATION	
7194 AMADOR VALLEY BLVD	
DUBLIN, CALIFORNIA	

REVIEWED BY <i>[Signature]</i>	APPROVED BY <i>[Signature]</i>
DATE 1826G	DRAWN BY J.C.
DATE 9-12-88	DRAWING # FIG. 2

FIG 6

TABLE 2

Summary of Sidewall and Trench Samples

<u>Sampling Date</u>	<u>Sample</u>	<u>TPH</u>	<u>B</u>	<u>T</u>	<u>X</u>	<u>E</u>
12/17/87	T1-B	750	31	37	170	32
2/01/88	S-1	750	22	34	180	25
	S-2	300	5.5	1.8	98	18
2/08/88	T-7	960	99	99	260	42
2/29/88	TR-1	9.9	2.3	<0.1	1.2	0.7
	TR-2	680	14	1.1	54	35
	TR-3	160	2.8	<0.1	13	9.5
	TR-4	990	8.1	5.8	110	36
	TR-5	1900	53	27	230	40
	TR-6	1300	140	48	260	35



## SECTION 2

Results

## Soil Vapor Concentrations

PROBE #	DEPTH*	TH** (ppm)
A	8'	40
B	8'	55
C	8'	55
D	8'	45,000
E	8'	45,000
F	8'	750
G	8'	35,000
H	8'	26,000
I	8'	10,000
J	8'	5,000
K	8'	35,000
L	8'	23,000
M	8'	5,000
N	8'	12,500
O	8'	117,000
P	8'	114,000
Q	8'	89,000
R	8'	125
S	8'	4,900
T	8'	13,000
U	8'	ND
V	8'	12,500
W	8'	300
X	8'	300
Y	8'	ND

Probes A thru Y analyzed on 7/19/88

\* Probe Depth in Feet

\*\* Total Hydrocarbons (TH) as propane, C<sub>3</sub> in PPM m/m

ND Below the detection limit of 5 PPM m/m

Table 3

## SECTION 2

Results

## Soil Vapor Concentrations

PROBE #	DEPTH*	TH**(PPM)
Z	8'	7,500
AA	8'	ND
BB	8'	ND
CC	8'	66,000
DD	8'	16,000
EE	8'	23,500
FF	8'	130,000
GG	8'	120,000
HH	8'	125,000
II	8'	129,000
JJ	8'	100,000
KK	8'	ND
LL	8'	75,000
MM	8'	1,500
NN	8'	ND
OO	8'	ND
PP	8'	1,500
QQ	8'	ND
RR	8'	400
SS	8'	ND
TT	8'	36,500
UU	8'	115,00
VV	8'	350
WW	8'	ND
XX	8'	ND

Probes Z thru XX were analyzed 7/20/88

\* Probe Depth in Feet

\*\* Total Hydrocarbons (TH) as propane, C<sub>3</sub> in PPM m/m

ND Below the detection limit of 5 PPM m/m

cont. Table 3

**TABLE 2**  
**SOIL ANALYSIS RESULTS SUMMARY**

Contaminants (ppm)

<u>Sample Location</u>	<u>Approximate Depth (ft.)</u>	<u>TPH</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylene</u>
B-1	COMP	ND	NA	NA	NA
B-1	8	22	NA	NA	NA
B-2	COMP	ND	NA	NA	NA
B-3	COMP	ND	NA	NA	NA
B-4	COMP	ND	NA	NA	NA
B-5	COMP	ND	NA	NA	NA
B-5	8	420	9.8	1.8	36
B-5	10	43	NA	NA	NA
B-5	12	170	9.3	1.3	14
B-5	13	10	NA	NA	NA
B-6	COMP	ND	NA	NA	NA
B-6	7	66	4.8	5.6	1.8
B-6	9	540	3.9	6.4	42
B-6	10	130	ND	1.3	11
B-6	12	14	NA	NA	NA
B-6	13	ND	NA	NA	NA
MW-6	COMP	ND	NA	NA	NA
MW-6	10	11	NA	NA	NA
MW-6	12	75	NA	NA	NA
MW-7	COMP	ND	NA	NA	NA
RWQCB Priority Level (Ref. 9.3)		100	None	None	None
SWRCB Appraisal Limits (Ref. 9.4)		None	100	80	40

*No odor  
in air*

NOTES:

1. See Figure 2 for monitoring well and soil boring locations.
2. COMP: The sample analyzed was a composite of samples from several depths
3. ND: Not detected using EPA standard laboratory procedure.
4. NA: The sample was not analyzed for that compound.

*Table 4*

TABLE 4B  
RESULTS OF ANALYSES FOR SOIL AND GROUND WATER

FORMER SHELL SERVICE STATION  
7194 AMADOR VALLEY BLVD  
DUBLIN, CALIFORNIA

SAMPLE LOCATION	SAMPLE NUMBER	DEPTH OF SAMPLE	SAMPLE MATRIX	ANALYTICAL RESULTS (ppb)			
				TVH	BENZENE	TOLUENE	XYLENES
MW-1	SDC-1002	9-10.5 FT.	SOIL	18,000	160	190	1,300
	SDC-1027	--	WATER	440	120	50	120
MW-2	SDC-1007	9-10.5 FT.	SOIL	95,000	1,500	410	11,000
	SDC-1028	--	WATER	ND<0.5	ND<0.5	ND<0.5	ND<0.5
MW-3	SDC-10012	10-11.5 FT.	SOIL	270,000	5,700	1,200	30,000
	SDC-1029	--	WATER	76	10	4.40	15
MW-4	SDC-1017	10-11.5 FT.	SOIL	290,000	3,800	10,000	23,000
	SDC-1030	--	WATER	290	76	33	150

TVH = Total Volatile Hydrocarbons

ppb = parts per billion

ND<0.5 = None Detected Above Indicated Detection Limit

Current California Department Of Health Services  
Action Levels For Water:

Benzene 0.7 ppb

Toluene 100 ppb

Xylenes 620 ppb

Note: Subject to change at DOHS discretion.

TABLE 4-B

SOIL ANALYSES RESULTS

Shell Oil Company  
7194 Amador Valley Boulevard, Dublin, California

EES Project No. 1826G

Sample Number	TPHG (ppm)	TPHD (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl Benzene (ppm)	Total Xylenes (ppm)	Organic Lead (ppm)	Total Lead (ppm)
MW-8-1, 2, 3, 4 (Composite)	ND	ND	NA	NA	NA	NA	ND	6.50
MW-9-1, 2, 3, 4 (Composite)	3	ND	ND	ND	ND	ND	ND	6.25
MW-10	2,600	53	7	52	44	210	ND*	6.90*
MW-10-2	1,100	70	4	22	20	94	ND*	6.90*
MW-10-3	2	ND	ND	ND	ND	ND	ND*	6.90*
MW-11-1, 2 (Composite)	ND	ND	NA	NA	NA	NA	ND	9.50
MW-12-1, 2, 3 (Composite)	ND	ND	NA	NA	NA	NA	ND	7.35

ppm = parts per million

ND = None Detected at laboratory method quantitation limit

NA = Not Analyzed

\* = MW-10-1, 2, and three samples composited for lead analyses

TPHG = Total Petroleum Hydrocarbons as Gasoline

TPHD = Total Petroleum Hydrocarbons as Diesel

Soil Sampling Dates = 2/12/89 through 2/23/89

Note: For detection limits, refer to laboratory reports

**TABLE 5**  
**WELL CONCENTRATIONS**  
**Shell Oil Products Company**  
**7194 Amador Valley Boulevard**  
**Dublin, California**  
**WIC #204-2277-0105**

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
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MW-1	Top casing elevation (ft):									
		<b>334.83</b>								
9-May-88	8.72	326.11	0.00	440	120	50	NA	120	NA	
26-Aug-88	9.15	325.68	0.00	200000	4400	260	300	450	NA	
5-Oct-88	8.54	326.29	0.00	17000	6700	360	210	730	NA	
22-Nov-88	9.31	325.52	0.00	8000	3900	830	250	340	NA	
9-Dec-88	9.33	325.50	0.00	11000	790	36	7.3	68	NA	
13-Jan-89	NA	NA	NA	8800	3800	110	330	90	NA	
10-Feb-89	8.51	326.32	0.00	18000	4700	400	660	190	NA	
2-Mar-89	8.71	326.12	0.00	14000	6100	770	320	440	NA	
4-Apr-89	7.93	326.90	0.00	11000	4800	770	270	780	NA	
1-May-89	8.43	326.40	0.00	11000	2800	880	410	780	NA	
1-Jun-89	8.56	326.27	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
29-Jun-89	8.60	326.23	0.00	4700	310	160	75	260	NA	
9-Aug-89	8.43	326.40	0.00	12000	1300	620	830	680	NA	
11-Sep-89	8.65	326.18	0.00	<50	<0.5	<0.5	<0.5	2.2	NA	
10-Oct-89	8.52	326.31	0.00	8700	1100	310	180	590	NA	
25-Oct-89	8.56	326.27	0.00	7500	660	250	460	480	NA	
20-Dec-89	8.80	326.03	0.00	6200	270	110	260	220	NA	
17-Jan-90	8.47	326.36	0.00	7400	200	170	160	260	NA	
23-Feb-90	8.25	326.58	0.00	1500	130	13	30	24	NA	
4-Jun-90	8.62	326.21	0.00	830	88	10	2.6	28	NA	
20-Nov-90	9.50	325.33	0.00	NA	NA	NA	NA	NA	NA	
12-Feb-91	9.51	325.32	0.00	1500	180	39	82	110	NA	
6-May-91	8.34	326.49	0.00	510	41	11	25	35	NA	
28-Aug-91	9.28	325.55	0.00	450	41	16	24	34	NA	
13-Nov-91	9.59	325.24	0.00	320	41	14	23	33	NA	
25-Feb-92	7.49	327.34	0.00	240	24	9.2	14	20	NA	
12-May-92	8.64	326.19	0.00	320	60	25	29	41	NA	

**TABLE 5**  
**WELL CONCENTRATIONS**  
Shell Oil Products Company  
7194 Amador Valley Boulevard  
Dublin, California  
WIC #204-2277-0105

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
12-Aug-92	9.15	325.68	0.00	230	26	16	20	25	NA	
10-Nov-92	10.04	324.79	0.00	120	13	8.8	9	13	NA	
10-Feb-93	7.24	327.59	0.00	80	3.3	2.9	2.4	5.1	NA	
10-May-93	7.78	327.05	0.00	100	8.5	5.5	5.2	10	NA	
12-Aug-93	8.54	326.29	0.00	130	10	11	8.3	32	NA	
11-Nov-93	8.56	326.27	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
11-Feb-94	8.62	326.21	0.00	110	12	4.6	6.4	13	NA	
17-May-94	7.96	326.87	0.00	<50	0.53	<0.5	<0.5	0.71	NA	
25-Aug-94	9.24	325.59	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
23-Nov-94	8.74	326.09	0.00	<50	0.9	<0.5	<0.5	<0.5	NA	
15-Feb-95	6.84	327.99	0.00	330	2.7	1.3 <sup>b</sup>	1.5	2.3	NA	
24-May-95	7.91	326.92	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
25-Aug-95	8.11	326.72	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
26-Feb-96	5.60	329.23	0.00	<50	<0.5	0.6	<0.5	<0.5	NA	
23-Aug-96	8.23	326.60	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	

MW-2	Top casing elevation (ft):		336.96							
9-May-88	10.85	326.11	0.00	<50	<0.5	<0.5	NA	<0.5	NA	
26-Aug-88	11.29	325.67	0.00	1700	230	16	87	120	NA	
5-Oct-88	10.83	326.13	0.00	200	20	2.3	8.3	12	NA	
22-Nov-88	11.42	325.54	0.00	800	93	1.6	4.3	60	NA	
9-Dec-88	11.45	325.51	0.00	270	45	3.6	7.2	14	NA	
13-Jan-89	NA	NA	NA	180	26	2.3	17	7	NA	
10-Feb-89	10.74	326.22	0.00	320	43	1.7	34	15	NA	
2-Mar-89	10.91	326.05	0.00	230	24	0.9	9.2	18	NA	
4-Apr-89	10.06	326.90	0.00	230	53	2.3	7.1	20	NA	
1-May-89	10.58	326.38	0.00	<50	2.7	<0.5	<0.5	<0.5	NA	
1-Jun-89	10.73	326.23	0.00	120	14	<0.5	3.9	7.6	NA	

TABLE 5

WELL CONCENTRATIONS  
 Shell Oil Products Company  
 7194 Amador Valley Boulevard  
 Dublin, California  
 WIC #204-2277-0105

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
29-Jun-89	10.90	326.06	0.00	<50	4.1	<0.5	<0.5	<0.5	NA	
9-Aug-89	10.78	326.18	0.00	88	3.9	<0.5	<0.5	<0.5	NA	
11-Sep-89	10.97	325.99	0.00	<50	3.2	<0.5	<0.5	<0.5	NA	
10-Oct-89	10.88	326.08	0.00	110	6.7	<0.5	<0.5	<0.5	NA	
25-Oct-89	11.00	325.96	0.00	<50	2.5	<0.5	<0.5	1.9	NA	
20-Dec-89	11.06	325.90	0.00	<50	7.1	<0.5	5.0	9.8	NA	
17-Jan-90	10.78	326.18	0.00	<50	4.4	<0.5	1.6	1.4	NA	
23-Feb-90	10.35	326.61	0.00	70	6.3	<0.5	2.7	2.5	NA	
4-Jun-90	10.72	326.24	0.00	60	2.4	<0.5	0.8	<0.5	NA	
20-Nov-90	11.35	325.61	0.00	60	5.6	<0.5	<0.5	<0.5	NA	
12-Feb-91	11.64	325.32	0.00	130	14	<0.5	0.9	0.5	NA	
6-May-91	10.05	326.91	0.00	60	1.5	<0.5	5	<0.5	NA	
28-Aug-91	11.16	325.80	0.00	100	6.3	<0.5	1.0	1.1	NA	
13-Nov-91	11.57	325.39	0.00	<50	11	<0.5	1.3	<0.5	NA	
25-Feb-92	9.66	327.30	0.00	<50	3.8	<0.5	<0.5	<0.5	NA	
12-May-92	10.97	325.99	0.00	<50	6	<0.5	<0.5	<0.5	NA	
12-Aug-92	11.58	325.38	0.00	110	6.8	<0.5	1.0	<0.5	NA	
10-Nov-92	12.05	324.91	0.00	56	4.5	<0.5	<0.5	<0.5	NA	
10-Feb-93	9.28	327.68	0.00	81	4.8	0.6	1.4	1.9	NA	
10-May-93	9.65	327.31	0.00	90	0.8	0.8	0.6	3.2	NA	
12-Aug-93	10.70	326.26	0.00	420	61	18	21	53	NA	
11-Nov-93	11.36	325.60	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
11-Feb-94	11.04	325.92	0.00	<50	0.64	<0.5	<0.5	<0.5	NA	
17-May-94	10.29	326.67	0.00	<50	3.0	<0.5	<0.5	0.5	NA	
25-Aug-94	11.29	325.67	0.00	<50	17	<0.5	<0.5	<0.5	NA	
23-Nov-94	10.92	326.04	0.00	<50	9.3	<0.5	<0.5	<0.5	NA	
15-Feb-95	8.90	328.06	0.00	160	4.4	1.1 <sup>p</sup>	0.6	1.5	NA	
24-May-95	10.02	326.94	0.00	70	3.9	<0.5	1.4	<0.5	NA	



**TABLE 5**

**WELL CONCENTRATIONS**  
**Shell Oil Products Company**  
**7194 Amador Valley Boulevard**  
**Dublin, California**  
**WIC #204-2277-0105**

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
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25-Aug-95	10.24	326.72	0.00	<50	20	<0.5	<0.5	<0.5	NA	
26-Feb-96	7.54	329.42	0.00	<50	0.8	<0.5	<0.5	<0.5	NA	
23-Aug-96	10.29	326.67	0.00	<50	4.3	<0.50	<0.50	<0.50	<2.5	

MW-3	Top casing elevation (ft):		336.96							
9-May-88	10.59	326.37	0.00	76	10	4.4	NA	15	NA	
26-Aug-88	11.10	325.86	0.00	5200	170	6	32	54	NA	
5-Oct-88	10.43	326.53	0.00	260	100	2.7	5.8	7.0	NA	
22-Nov-88	11.16	325.80	0.00	180	75	1.4	8.1	4.0	NA	
9-Dec-88	11.24	325.72	0.00	160	5	5.9	<0.5	<0.5	NA	
13-Jan-89	NA	NA	NA	160	36	1.2	3	2.0	NA	
10-Feb-89	10.43	326.53	0.00	300	83	<0.5	8.6	8.0	NA	
2-Mar-89	10.59	326.37	0.00	570	160	1.0	17	9.0	NA	
4-Apr-89	9.45	327.51	0.00	150	64	0.8	2.7	6.0	NA	
1-May-89	10.20	326.76	0.00	130	48	1.2	3.4	2.0	NA	
1-Jun-89	10.40	326.56	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
29-Jun-89	10.60	326.36	0.00	90	68	0.7	<0.5	5.1	NA	
9-Aug-89	10.64	326.32	0.00	150	23	5.3	2.6	<0.5	NA	
11-Sep-89	10.83	326.13	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-Oct-89	10.95	326.01	0.00	80	6.4	0.72	<0.5	<0.5	NA	
25-Oct-89	10.86	326.10	0.00	150	11	<0.5	1.6	<0.5	NA	
20-Dec-89	11.09	325.87	0.00	<50	6.8	<0.5	<0.5	<0.5	NA	
17-Jan-90	10.90	326.06	0.00	<50	4.0	<0.5	6.8	<0.5	NA	
23-Feb-90	10.52	326.44	0.00	50	10	<0.5	1.2	0.9	NA	
4-Jun-90	10.52	326.44	0.00	80	10	<0.5	1.4	<0.5	NA	
20-Nov-90	12.65	324.31	0.00	100	26	0.7	1.2	1.9	NA	
12-Feb-91	11.16	325.80	0.00	130	27	<0.5	<0.5	<0.5	NA	
	New top casing elevation (ft):		336.93							

TABLE 5

WELL CONCENTRATIONS  
Shell Oil Products Company  
7194 Amador Valley Boulevard  
Dublin, California  
WIC #204-2277-0105

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
6-May-91	9.85	327.08	0.00	120	31	0.8	2.1	0.8	NA	
28-Aug-91	10.90	326.03	0.00	340	87	1.1	6.5	3.8	NA	
13-Nov-91	11.28	325.65	0.00	240	140	<0.5	3.1	0.9	NA	
25-Feb-92	9.04	327.89	0.00	80	17	<0.5	<0.5	<0.5	NA	
12-May-92	10.50	326.43	0.00	74	31	<0.5	2.6	<0.5	NA	
12-Aug-92	10.94	325.99	0.00	160	24	0.5	2.9	<0.5	NA	
10-Nov-92	11.84	325.09	0.00	130	27	<0.5	1.1	0.9	NA	
10-Feb-93	8.82	328.11	0.00	92	5.7	<0.5	<0.5	<0.5	NA	
10-May-93	8.88	328.05	0.00	250	100	<0.5	<0.5	<0.5	NA	
12-Aug-93	10.36	326.57	0.00	380	110	16	13	43	NA	
11-Nov-93	10.64	326.29	0.00	170	35	8.0	29	9.2	NA	
11-Feb-94	10.68	326.25	0.00	76	23	<0.5	<0.5	<0.5	NA	
17-May-94	9.92	327.01	0.00	84	26	<0.5	2.2	<0.5	NA	
25-Aug-94	11.30	325.63	0.00	<50	7.7	<0.5	0.6	<0.5	NA	
23-Nov-94	10.48	326.45	0.00	<50	2.7	<0.5	<0.5	<0.5	NA	
15-Feb-95	8.35	328.58	0.00	50	19	0.9 <sup>b</sup>	1.4	1.5	NA	
24-May-95	9.67	327.26	0.00	380	200	1.7	<0.5	0.6	NA	
25-Aug-95	9.36	327.57	0.00	70	22	<0.5	4.1	<0.5	NA	
26-Feb-96	7.04	329.89	0.00	150	41	<0.5	7.8	0.8	NA	
23-Aug-96	10.00	326.93	0.00	<50	4.1	<0.50	2.0	<0.50	2.7	MTBE by 8260: <2.0 ppb (*)

MW-3 (DUP)										
10-Nov-92	NA	NA	NA	110	2.6	<0.5	1.1	0.7	NA	
10-Feb-93	NA	NA	NA	80	5.2	<0.5	<0.5	<0.5	NA	
10-May-93	NA	NA	NA	200	80	<0.5	2.4	<0.5	NA	
25-Aug-94	NA	NA	NA	<50	14	<0.5	1.5	<0.5	NA	
25-Aug-95	NA	NA	NA	70	37	<0.5	6.2	<0.5	NA	

TABLE 5

WELL CONCENTRATIONS  
Shell Oil Products Company  
7194 Amador Valley Boulevard  
Dublin, California  
WIC #204-2277-0105

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
<b>MW-4</b>	<b>Top casing elevation (ft):</b>		<b>337.14</b>							
9-May-88	10.88	326.26	0.00	290	76	33	NA	150	NA	
26-Aug-88	11.34	325.80	0.00	210	640	41	110	160	NA	
5-Oct-88	10.87	326.27	0.00	450	110	6.3	16	20	NA	
22-Nov-88	11.41	325.73	0.00	500	110	4	20	27	NA	
9-Dec-88	11.46	325.68	0.00	260	920	7.5	5.9	11	NA	
13-Jan-89	NA	NA	NA	990	200	6.5	46	14	NA	
10-Feb-89	10.78	326.36	0.00	290	90	3.6	8.8	9	NA	
2-Mar-89	10.92	326.22	0.00	630	210	6.2	34	7	NA	
4-Apr-89	10.04	327.10	0.00	640	340	13	25	40	NA	
1-May-89	10.52	326.62	0.00	100	65	2	3	4	NA	
1-Jun-89	10.62	326.52	0.00	60	<0.5	<0.5	<0.5	<0.5	NA	
29-Jun-89	11.00	326.14	0.00	110	62	1.3	<0.5	4.8	NA	
9-Aug-89	10.92	326.22	0.00	160	110	2	6.4	<0.5	NA	
11-Sep-89	11.05	326.09	0.00	94	45	0.5	3.8	<0.5	NA	
10-Oct-89	10.97	326.17	0.00	90	30	1	1.9	<0.5	NA	
25-Oct-89	11.35	325.79	0.00	<50	3.4	<0.5	<0.5	<0.5	NA	
20-Dec-89	11.07	326.07	0.00	<50	35	1.1	3.6	1.6	NA	
17-Jan-90	11.08	326.06	0.00	<50	4.0	<0.5	6.8	<0.5	NA	
23-Feb-90	10.90	326.24	0.00	<50	8.0	<0.5	1.1	0.7	NA	
4-Jun-90	10.74	326.40	0.00	160	85	1.1	1.9	<0.5	NA	
20-Nov-90	11.45	325.69	0.00	140	52	1	0.8	0.9	NA	
12-Feb-91	11.50	325.64	0.00	130	48	<0.5	1.5	<0.5	NA	
6-May-91	10.04	327.10	0.00	140	49	1.3	4.1	1.7	NA	
28-Aug-91	11.18	325.96	0.00	90	13	<0.5	1	1.1	NA	
13-Nov-91	11.60	325.54	0.00	<50	10	<0.5	<0.5	<0.5	NA	
25-Feb-92	9.45	327.69	0.00	120	47	<0.5	0.5	0.5	NA	
12-May-92	10.84	326.30	0.00	NA	NA	NA	NA	NA	NA	Well now sampled semi-annually

TABLE 5

WELL CONCENTRATIONS  
 Shell Oil Products Company  
 7194 Amador Valley Boulevard  
 Dublin, California  
 WIC #204-2277-0105

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
12-Aug-92	11.36	325.78	0.00	<50	3.5	<0.5	<0.5	<0.5	NA	
10-Nov-92	12.12	325.02	0.00	NA	NA	NA	NA	NA	NA	
10-Feb-93	11.36	325.78	0.00	190	59	3.2	3.6	3.1	NA	
10-May-93	9.54	327.60	0.00	NA	NA	NA	NA	NA	NA	
12-Aug-93	10.68	326.46	0.00	50	4.1	1.1	1.3	3.2	NA	
11-Nov-93	11.97	325.17	0.00	NA	NA	NA	NA	NA	NA	
11-Feb-94	10.71	326.43	0.00	<50	0.62	<0.5	<0.5	<0.5	NA	
17-May-94	10.30	326.84	0.00	NA	NA	NA	NA	NA	NA	
25-Aug-94	10.81	326.30	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
23-Nov-94	10.78	326.36	0.00	NA	NA	NA	NA	NA	NA	
15-Feb-95	9.49	327.65	0.00	<50	13	0.9 <sup>b</sup>	<0.5	1.5	NA	
24-May-95	10.73	326.41	0.00	NA	NA	NA	NA	NA	NA	
25-Aug-95	10.22	326.92	0.00	<50	2.4	<0.5	<0.5	<0.5	NA	
26-Feb-96	7.52	329.62	0.00	<50	<0.5	<0.5	<0.5	0.7	NA	
23-Aug-96	9.84	327.30	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
<b>MW-4 (DUP)</b>										
23-Aug-96	NA	NA	NA	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
<b>MW-5</b>										
	Top casing elevation (ft):			334.96						
26-Aug-88	9.10	325.86	0.00	210	6.0	44.0	9.0	19.0	NA	
5-Oct-88	9.95	325.01	0.00	7500	2700	<0.5	110	590	NA	
22-Nov-88	8.93	326.03	0.00	150	21	26	3.0	2.0	NA	
9-Dec-88	10.48	324.48	0.00	240	37	2.2	6.7	7.7	NA	
13-Jan-89	NA	NA	NA	80	1.6	<0.5	7.7	2.0	NA	
10-Feb-89	10.35	324.61	0.00	60	<0.5	<0.5	<0.5	<0.5	NA	
2-Mar-89	8.50	326.46	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
4-Apr-89	7.72	327.24	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	

**TABLE 5**  
**WELL CONCENTRATIONS**  
**Shell Oil Products Company**  
**7194 Amador Valley Boulevard**  
**Dublin, California**  
**WIC #204-2277-0105**

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
1-May-89	8.21	326.75	0.00	<50	1.3	<0.5	<0.5	<0.5	NA	
1-Jun-89	8.40	326.56	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
29-Jun-89	8.65	326.31	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
9-Aug-89	8.76	326.20	0.00	89	8.5	1.8	1.5	2.2	NA	
11-Sep-89	8.80	326.16	0.00	1100	7.8	1.4	<0.5	6.3	NA	
10-Oct-89	11.92	323.04	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
25-Oct-89	9.03	325.93	0.00	<50	1.4	<0.5	<0.5	1.6	NA	
20-Dec-89	11.26	323.70	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
17-Jan-90	9.95	325.01	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
23-Feb-90	8.30	326.66	0.00	<50	<0.5	<0.5	0.6	<0.5	NA	
4-Jun-90	8.57	326.39	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
20-Nov-90	9.45	325.51	0.00	<50	<0.5	<0.5	<0.5	1.0	NA	
12-Feb-91	9.27	325.69	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
6-May-91	7.90	327.06	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
28-Aug-91	9.28	325.68	0.00	<50	<0.5	<0.5	<0.5	1.0	NA	
13-Nov-91	9.36	325.60	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
25-Feb-92	9.02	325.94	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
12-May-92	8.65	326.31	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
12-Aug-92	9.40	325.56	0.00	56	0.5	<0.5	<0.5	<0.5	NA	
10-Nov-92	9.68	325.28	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-Feb-93	7.97	326.99	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-May-93	7.76	327.20	0.00	<50	1.5	<0.5	1.2	5.2	NA	
12-Aug-93	8.75	326.21	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
11-Nov-93	9.32	325.64	0.00	<50	12	<0.5	1.2	<0.5	NA	
11-Feb-94	8.97	325.99	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
17-May-94	8.12	326.84	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
25-Aug-94	9.19	325.77	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
23-Nov-94	8.78	326.18	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	

**TABLE 5**  
**WELL CONCENTRATIONS**  
**Shell Oil Products Company**  
**7194 Amador Valley Boulevard**  
**Dublin, California**  
**WIC #204-2277-0105**

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
MW-1	<b>Top casing elevation (ft):</b>			<b>334.83</b>						
9-May-88	8.72	326.11	0.00	440	120	50	NA	120	NA	
26-Aug-88	9.15	325.68	0.00	200000	4400	260	300	450	NA	
5-Oct-88	8.54	326.29	0.00	17000	6700	360	210	730	NA	
22-Nov-88	9.31	325.52	0.00	8000	3900	830	250	340	NA	
9-Dec-88	9.33	325.50	0.00	11000	790	36	7.3	68	NA	
13-Jan-89	NA	NA	NA	8800	3800	110	330	90	NA	
10-Feb-89	8.51	326.32	0.00	18000	4700	400	660	190	NA	
2-Mar-89	8.71	326.12	0.00	14000	6100	770	320	440	NA	
4-Apr-89	7.93	326.90	0.00	11000	4800	770	270	780	NA	
1-May-89	8.43	326.40	0.00	11000	2800	880	410	780	NA	
1-Jun-89	8.56	326.27	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
29-Jun-89	8.60	326.23	0.00	4700	310	160	75	260	NA	
9-Aug-89	8.43	326.40	0.00	12000	1300	620	830	680	NA	
11-Sep-89	8.65	326.18	0.00	<50	<0.5	<0.5	<0.5	2.2	NA	
10-Oct-89	8.52	326.31	0.00	8700	1100	310	180	590	NA	
25-Oct-89	8.56	326.27	0.00	7500	660	250	460	480	NA	
20-Dec-89	8.80	326.03	0.00	6200	270	110	260	220	NA	
17-Jan-90	8.47	326.36	0.00	7400	200	170	160	260	NA	
23-Feb-90	8.25	326.58	0.00	1500	130	13	30	24	NA	
4-Jun-90	8.62	326.21	0.00	830	88	10	2.6	28	NA	
20-Nov-90	9.50	325.33	0.00	NA	NA	NA	NA	NA	NA	
12-Feb-91	9.51	325.32	0.00	1500	180	39	82	110	NA	
6-May-91	8.34	326.49	0.00	510	41	11	25	35	NA	
28-Aug-91	9.28	325.55	0.00	450	41	16	24	34	NA	
13-Nov-91	9.59	325.24	0.00	320	41	14	23	33	NA	
25-Feb-92	7.49	327.34	0.00	240	24	9.2	14	20	NA	
12-May-92	8.64	326.19	0.00	320	60	25	29	41	NA	

**TABLE 5**

**WELL CONCENTRATIONS**  
**Shell Oil Products Company**  
**7194 Amador Valley Boulevard**  
**Dublin, California**  
**WIC #204-2277-0105**

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
12-Aug-92	9.15	325.68	0.00	230	26	16	20	25	NA	
10-Nov-92	10.04	324.79	0.00	120	13	8.8	9	13	NA	
10-Feb-93	7.24	327.59	0.00	80	3.3	2.9	2.4	5.1	NA	
10-May-93	7.78	327.05	0.00	100	8.5	5.5	5.2	10	NA	
12-Aug-93	8.54	326.29	0.00	130	10	11	8.3	32	NA	
11-Nov-93	8.56	326.27	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
11-Feb-94	8.62	326.21	0.00	110	12	4.6	6.4	13	NA	
17-May-94	7.96	326.87	0.00	<50	0.53	<0.5	<0.5	0.71	NA	
25-Aug-94	9.24	325.59	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
23-Nov-94	8.74	326.09	0.00	<50	0.9	<0.5	<0.5	<0.5	NA	
15-Feb-95	6.84	327.99	0.00	330	2.7	1.3 <sup>p</sup>	1.5	2.3	NA	
24-May-95	7.91	326.92	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
25-Aug-95	8.11	326.72	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
26-Feb-96	5.60	329.23	0.00	<50	<0.5	0.6	<0.5	<0.5	NA	
23-Aug-96	8.23	326.60	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	

MW-2	Top casing elevation (ft):		336.96							
9-May-88	10.85	326.11	0.00	<50	<0.5	<0.5	NA	<0.5	NA	
26-Aug-88	11.29	325.67	0.00	1700	230	16	87	120	NA	
5-Oct-88	10.83	326.13	0.00	200	20	2.3	8.3	12	NA	
22-Nov-88	11.42	325.54	0.00	800	93	1.6	4.3	60	NA	
9-Dec-88	11.45	325.51	0.00	270	45	3.6	7.2	14	NA	
13-Jan-89	NA	NA	NA	180	26	2.3	17	7	NA	
10-Feb-89	10.74	326.22	0.00	320	43	1.7	34	15	NA	
2-Mar-89	10.91	326.05	0.00	230	24	0.9	9.2	18	NA	
4-Apr-89	10.06	326.90	0.00	230	53	2.3	7.1	20	NA	
1-May-89	10.58	326.38	0.00	<50	2.7	<0.5	<0.5	<0.5	NA	
1-Jun-89	10.73	326.23	0.00	120	14	<0.5	3.9	7.6	NA	

TABLE 5

WELL CONCENTRATIONS  
Shell Oil Products Company  
7194 Amador Valley Boulevard  
Dublin, California  
WIC #204-2277-0105

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
29-Jun-89	10 90	326.06	0.00	<50	4.1	<0.5	<0.5	<0.5	NA	
9-Aug-89	10 78	326.18	0.00	88	3.9	<0.5	<0.5	<0.5	NA	
11-Sep-89	10 97	325.99	0.00	<50	3.2	<0.5	<0.5	<0.5	NA	
10-Oct-89	10 88	326.08	0.00	110	6.7	<0.5	<0.5	<0.5	NA	
25-Oct-89	11 00	325.96	0.00	<50	2.5	<0.5	<0.5	1.9	NA	
20-Dec-89	11 06	325.90	0.00	<50	7.1	<0.5	5.0	9.8	NA	
17-Jan-90	10 78	326.18	0.00	<50	4.4	<0.5	1.6	1.4	NA	
23-Feb-90	10 35	326.61	0.00	70	6.3	<0.5	2.7	2.5	NA	
4-Jun-90	10 72	326.24	0.00	60	2.4	<0.5	0.8	<0.5	NA	
20-Nov-90	11 35	325.61	0.00	60	5.6	<0.5	<0.5	<0.5	NA	
12-Feb-91	11 64	325.32	0.00	130	14	<0.5	0.9	0.5	NA	
6-May-91	10 05	326.91	0.00	60	1.5	<0.5	5	<0.5	NA	
28-Aug-91	11 16	325.80	0.00	100	6.3	<0.5	1.0	1.1	NA	
13-Nov-91	11 57	325.39	0.00	<50	11	<0.5	1.3	<0.5	NA	
25-Feb-92	9 66	327.30	0.00	<50	3.8	<0.5	<0.5	<0.5	NA	
12-May-92	10 97	325.99	0.00	<50	6	<0.5	<0.5	<0.5	NA	
12-Aug-92	11 58	325.38	0.00	110	6.8	<0.5	1.0	<0.5	NA	
10-Nov-92	12 05	324.91	0.00	56	4.5	<0.5	<0.5	<0.5	NA	
10-Feb-93	9 28	327.68	0.00	81	4.8	0.6	1.4	1.9	NA	
10-May-93	9 65	327.31	0.00	90	0.8	0.8	0.6	3.2	NA	
12-Aug-93	10 70	326.26	0.00	420	61	18	21	53	NA	
11-Nov-93	11 36	325.60	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
11-Feb-94	11 04	325.92	0.00	<50	0.64	<0.5	<0.5	<0.5	NA	
17-May-94	10 29	326.67	0.00	<50	3.0	<0.5	<0.5	0.5	NA	
25-Aug-94	11 29	325.67	0.00	<50	17	<0.5	<0.5	<0.5	NA	
23-Nov-94	10 92	326.04	0.00	<50	9.3	<0.5	<0.5	<0.5	NA	
15-Feb-95	8 90	328.06	0.00	160	4.4	1.1 <sup>b</sup>	0.6	1.5	NA	
24-May-95	10 02	326.94	0.00	70	3.9	<0.5	1.4	<0.5	NA	



**TABLE 5**  
**WELL CONCENTRATIONS**  
**Shell Oil Products Company**  
**7194 Amador Valley Boulevard**  
**Dublin, California**  
**WIC #204-2277-0105**

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
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25-Aug-95	10.24	326.72	0.00	<50	20	<0.5	<0.5	<0.5	NA	
26-Feb-96	7.54	329.42	0.00	<50	0.8	<0.5	<0.5	<0.5	NA	
23-Aug-96	10.29	326.67	0.00	<50	4.3	<0.50	<0.50	<0.50	<2.5	

MW-3	Top casing elevation (ft):		336.96							
9-May-88	10.59	326.37	0.00	76	10	4.4	NA	15	NA	
26-Aug-88	11.10	325.86	0.00	5200	170	6	32	54	NA	
5-Oct-88	10.43	326.53	0.00	260	100	2.7	5.8	7.0	NA	
22-Nov-88	11.16	325.80	0.00	180	75	1.4	8.1	4.0	NA	
9-Dec-88	11.24	325.72	0.00	160	5	5.9	<0.5	<0.5	NA	
13-Jan-89	NA	NA	NA	160	36	1.2	3	2.0	NA	
10-Feb-89	10.43	326.53	0.00	300	83	<0.5	8.6	8.0	NA	
2-Mar-89	10.59	326.37	0.00	570	160	1.0	17	9.0	NA	
4-Apr-89	9.45	327.51	0.00	150	64	0.8	2.7	6.0	NA	
1-May-89	10.20	326.76	0.00	130	48	1.2	3.4	2.0	NA	
1-Jun-89	10.40	326.56	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
29-Jun-89	10.60	326.36	0.00	90	68	0.7	<0.5	5.1	NA	
9-Aug-89	10.64	326.32	0.00	150	23	5.3	2.6	<0.5	NA	
11-Sep-89	10.83	326.13	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-Oct-89	10.95	326.01	0.00	80	6.4	0.72	<0.5	<0.5	NA	
25-Oct-89	10.86	326.10	0.00	150	11	<0.5	1.6	<0.5	NA	
20-Dec-89	11.09	325.87	0.00	<50	6.8	<0.5	<0.5	<0.5	NA	
17-Jan-90	10.90	326.06	0.00	<50	4.0	<0.5	6.8	<0.5	NA	
23-Feb-90	10.52	326.44	0.00	50	10	<0.5	1.2	0.9	NA	
4-Jun-90	10.52	326.44	0.00	80	10	<0.5	1.4	<0.5	NA	
20-Nov-90	12.65	324.31	0.00	100	26	0.7	1.2	1.9	NA	
12-Feb-91	11.16	325.80	0.00	130	27	<0.5	<0.5	<0.5	NA	
New top casing elevation (ft):			336.93							

TABLE 5

WELL CONCENTRATIONS  
 Shell Oil Products Company  
 7194 Amador Valley Boulevard  
 Dublin, California  
 WIC #204-2277-0105

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
6-May-91	9.85	327.08	0.00	120	31	0.8	2.1	0.8	NA	
28-Aug-91	10.90	326.03	0.00	340	87	1.1	6.5	3.8	NA	
13-Nov-91	11.28	325.65	0.00	240	140	<0.5	3.1	0.9	NA	
25-Feb-92	9.04	327.89	0.00	80	17	<0.5	<0.5	<0.5	NA	
12-May-92	10.50	326.43	0.00	74	31	<0.5	2.6	<0.5	NA	
12-Aug-92	10.94	325.99	0.00	160	24	0.5	2.9	<0.5	NA	
10-Nov-92	11.84	325.09	0.00	130	27	<0.5	1.1	0.9	NA	
10-Feb-93	8.82	328.11	0.00	92	5.7	<0.5	<0.5	<0.5	NA	
10-May-93	8.88	328.05	0.00	250	100	<0.5	<0.5	<0.5	NA	
12-Aug-93	10.36	326.57	0.00	380	110	16	13	43	NA	
11-Nov-93	10.64	326.29	0.00	170	35	8.0	29	9.2	NA	
11-Feb-94	10.68	326.25	0.00	76	23	<0.5	<0.5	<0.5	NA	
17-May-94	9.92	327.01	0.00	84	26	<0.5	2.2	<0.5	NA	
25-Aug-94	11.30	325.63	0.00	<50	7.7	<0.5	0.6	<0.5	NA	
23-Nov-94	10.48	326.45	0.00	<50	2.7	<0.5	<0.5	<0.5	NA	
15-Feb-95	8.35	328.58	0.00	50	19	0.9 <sup>b</sup>	1.4	1.5	NA	
24-May-95	9.67	327.26	0.00	380	200	1.7	<0.5	0.6	NA	
25-Aug-95	9.36	327.57	0.00	70	22	<0.5	4.1	<0.5	NA	
26-Feb-96	7.04	329.89	0.00	150	41	<0.5	7.8	0.8	NA	
23-Aug-96	10.00	326.93	0.00	<50	4.1	<0.50	2.0	<0.50	2.7	MTBE by 8260: <2.0 ppb (*)

MW-3 (DUP)										
10-Nov-92	NA	NA	NA	110	2.6	<0.5	1.1	0.7	NA	
10-Feb-93	NA	NA	NA	80	5.2	<0.5	<0.5	<0.5	NA	
10-May-93	NA	NA	NA	200	80	<0.5	2.4	<0.5	NA	
25-Aug-94	NA	NA	NA	<50	14	<0.5	1.5	<0.5	NA	
25-Aug-95	NA	NA	NA	70	37	<0.5	6.2	<0.5	NA	

**TABLE 5**  
**WELL CONCENTRATIONS**  
**Shell Oil Products Company**  
**7194 Amador Valley Boulevard**  
**Dublin, California**  
**WIC #204-2277-0105**

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
<b>MW-4</b>	<b>Top casing elevation (ft):</b>			<b>337.14</b>						
9-May-88	10.88	326.26	0.00	290	76	33	NA	150	NA	
26-Aug-88	11.34	325.80	0.00	210	640	41	110	160	NA	
5-Oct-88	10.87	326.27	0.00	450	110	6.3	16	20	NA	
22-Nov-88	11.41	325.73	0.00	500	110	4	20	27	NA	
9-Dec-88	11.46	325.68	0.00	260	920	7.5	5.9	11	NA	
13-Jan-89	NA	NA	NA	990	200	6.5	46	14	NA	
10-Feb-89	10.78	326.36	0.00	290	90	3.6	8.8	9	NA	
2-Mar-89	10.92	326.22	0.00	630	210	6.2	34	7	NA	
4-Apr-89	10.04	327.10	0.00	640	340	13	25	40	NA	
1-May-89	10.52	326.62	0.00	100	65	2	3	4	NA	
1-Jun-89	10.62	326.52	0.00	60	<0.5	<0.5	<0.5	<0.5	NA	
29-Jun-89	11.00	326.14	0.00	110	62	1.3	<0.5	4.8	NA	
9-Aug-89	10.92	326.22	0.00	160	110	2	6.4	<0.5	NA	
11-Sep-89	11.05	326.09	0.00	94	45	0.5	3.8	<0.5	NA	
10-Oct-89	10.97	326.17	0.00	90	30	1	1.9	<0.5	NA	
25-Oct-89	11.35	325.79	0.00	<50	3.4	<0.5	<0.5	<0.5	NA	
20-Dec-89	11.07	326.07	0.00	<50	35	1.1	3.6	1.6	NA	
17-Jan-90	11.08	326.06	0.00	<50	4.0	<0.5	6.8	<0.5	NA	
23-Feb-90	10.90	326.24	0.00	<50	8.0	<0.5	1.1	0.7	NA	
4-Jun-90	10.74	326.40	0.00	160	85	1.1	1.9	<0.5	NA	
20-Nov-90	11.45	325.69	0.00	140	52	1	0.8	0.9	NA	
12-Feb-91	11.50	325.64	0.00	130	48	<0.5	1.5	<0.5	NA	
6-May-91	10.04	327.10	0.00	140	49	1.3	4.1	1.7	NA	
28-Aug-91	11.18	325.96	0.00	90	13	<0.5	1	1.1	NA	
13-Nov-91	11.60	325.54	0.00	<50	10	<0.5	<0.5	<0.5	NA	
25-Feb-92	9.45	327.69	0.00	120	47	<0.5	0.5	0.5	NA	
12-May-92	10.84	326.30	0.00	NA	NA	NA	NA	NA	NA	Well now sampled semi-annually

**TABLE 5**  
**WELL CONCENTRATIONS**  
**Shell Oil Products Company**  
**7194 Amador Valley Boulevard**  
**Dublin, California**  
**WIC #204-2277-0105**

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
12-Aug-92	11.36	325.78	0.00	<50	3.5	<0.5	<0.5	<0.5	NA	
10-Nov-92	12.12	325.02	0.00	NA	NA	NA	NA	NA	NA	
10-Feb-93	11.36	325.78	0.00	190	59	3.2	3.6	3.1	NA	
10-May-93	9.54	327.60	0.00	NA	NA	NA	NA	NA	NA	
12-Aug-93	10.68	326.46	0.00	50	4.1	1.1	1.3	3.2	NA	
11-Nov-93	11.97	325.17	0.00	NA	NA	NA	NA	NA	NA	
11-Feb-94	10.71	326.43	0.00	<50	0.62	<0.5	<0.5	<0.5	NA	
17-May-94	10.30	326.84	0.00	NA	NA	NA	NA	NA	NA	
25-Aug-94	10.81	326.30	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
23-Nov-94	10.78	326.36	0.00	NA	NA	NA	NA	NA	NA	
15-Feb-95	9.49	327.65	0.00	<50	13	0.9 <sup>b</sup>	<0.5	1.5	NA	
24-May-95	10.73	326.41	0.00	NA	NA	NA	NA	NA	NA	
25-Aug-95	10.22	326.92	0.00	<50	2.4	<0.5	<0.5	<0.5	NA	
26-Feb-96	7.52	329.62	0.00	<50	<0.5	<0.5	<0.5	0.7	NA	
23-Aug-96	9.84	327.30	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	

MW-4 (DUP)										
23-Aug-96	NA	NA	NA	<50	<0.50	<0.50	<0.50	<0.50	<2.5	

MW-5	Top casing elevation (ft):									
26-Aug-88	9.10	325.86	0.00	210	6.0	44.0	9.0	19.0	NA	
5-Oct-88	9.95	325.01	0.00	7500	2700	<0.5	110	590	NA	
22-Nov-88	8.93	326.03	0.00	150	21	26	3.0	2.0	NA	
9-Dec-88	10.48	324.48	0.00	240	37	2.2	6.7	7.7	NA	
13-Jan-89	NA	NA	NA	80	1.6	<0.5	7.7	2.0	NA	
10-Feb-89	10.35	324.61	0.00	60	<0.5	<0.5	<0.5	<0.5	NA	
2-Mar-89	8.50	326.46	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
4-Apr-89	7.72	327.24	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	

**TABLE 5**  
**WELL CONCENTRATIONS**  
**Shell Oil Products Company**  
**7194 Amador Valley Boulevard**  
**Dublin, California**  
**WIC #204-2277-0105**

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
1-May-89	8.21	326.75	0.00	<50	1.3	<0.5	<0.5	<0.5	NA	
1-Jun-89	8.40	326.56	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
29-Jun-89	8.65	326.31	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
9-Aug-89	8.76	326.20	0.00	89	8.5	1.8	1.5	2.2	NA	
11-Sep-89	8.80	326.16	0.00	1100	7.8	1.4	<0.5	6.3	NA	
10-Oct-89	11.92	323.04	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
25-Oct-89	9.03	325.93	0.00	<50	1.4	<0.5	<0.5	1.6	NA	
20-Dec-89	11.26	323.70	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
17-Jan-90	9.95	325.01	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
23-Feb-90	8.30	326.66	0.00	<50	<0.5	<0.5	0.6	<0.5	NA	
4-Jun-90	8.57	326.39	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
20-Nov-90	9.45	325.51	0.00	<50	<0.5	<0.5	<0.5	1.0	NA	
12-Feb-91	9.27	325.69	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
6-May-91	7.90	327.06	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
28-Aug-91	9.28	325.68	0.00	<50	<0.5	<0.5	<0.5	1.0	NA	
13-Nov-91	9.36	325.60	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
25-Feb-92	9.02	325.94	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
12-May-92	8.65	326.31	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
12-Aug-92	9.40	325.56	0.00	56	0.5	<0.5	<0.5	<0.5	NA	
10-Nov-92	9.68	325.28	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-Feb-93	7.97	326.99	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-May-93	7.76	327.20	0.00	<50	1.5	<0.5	1.2	5.2	NA	
12-Aug-93	8.75	326.21	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
11-Nov-93	9.32	325.64	0.00	<50	12	<0.5	1.2	<0.5	NA	
11-Feb-94	8.97	325.99	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
17-May-94	8.12	326.84	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
25-Aug-94	9.19	325.77	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
23-Nov-94	8.78	326.18	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	

**TABLE 5**

**WELL CONCENTRATIONS**  
**Shell Oil Products Company**  
**7194 Amador Valley Boulevard**  
**Dublin, California**  
**WIC #204-2277-0105**

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
15-Feb-95	6.88	328.08	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
24-May-95	8.04	326.92	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
25-Aug-95	8.34	326.62	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
<b>MW-6</b>	<b>Top casing elevation (ft):</b>			<b>335.42</b>						
26-Aug-88	9.69	325.73	0.00	15000	390	390	670	1700	NA	
5-Oct-88	9.27	326.15	0.00	2700	130	38	960	220	NA	
22-Nov-88	9.77	325.65	0.00	NA	NA	NA	NA	NA	NA	
9-Dec-88	9.85	325.57	0.00	540	62	3.0	26	5.0	NA	
13-Jan-89	NA	NA	NA	980	160	22	120	29	NA	
10-Feb-89	9.10	326.32	0.00	1900	290	24	93	48	NA	
2-Mar-89	9.29	326.13	0.00	1400	160	20	130	33	NA	
4-Apr-89	8.48	326.94	0.00	1200	220	27	74	69	NA	
1-May-89	8.90	326.52	0.00	790	120	11	25	17	NA	
1-Jun-89	9.16	326.26	0.00	1200	49	49	69	30	NA	
29-Jun-89	9.30	326.12	0.00	940	130	15	69	35	NA	
9-Aug-89	9.30	326.12	0.00	1400	280	39	170	64	NA	
11-Sep-89	9.31	326.11	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-Oct-89	9.32	326.10	0.00	1000	85	11	12	16	NA	
25-Oct-89	9.30	326.12	0.00	1500	67	20	50	39	NA	
20-Dec-89	9.58	325.84	0.00	<50	4.9	5.1	<0.5	<0.5	NA	
17-Jan-90	9.46	325.96	0.00	<50	67	12	48	18	NA	
23-Feb-90	8.94	326.48	0.00	1.0	150	16	47	30	NA	
4-Jun-90	9.22	326.20	0.00	190	<0.5	<0.5	<0.5	0.6	NA	
20-Nov-90	9.65	325.77	0.00	730	120	12	39	21	NA	
12-Feb-91	9.85	325.57	0.00	550	65	10	33	16	NA	
6-May-91	9.12	326.30	0.00	550	72	11	38	23	NA	
28-Aug-91	9.68	325.74	0.00	580	82	7.6	28	20	NA	

**TABLE 5**  
**WELL CONCENTRATIONS**  
**Shell Oil Products Company**  
**7194 Amador Valley Boulevard**  
**Dublin, California**  
**WIC #204-2277-0105**

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
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13-Nov-91	10.00	325.42	0.00	430	60	7.6	20	12	NA	
25-Feb-92	8.44	326.98	0.00	400	52	6.6	18	11	NA	
12-May-92	9.11	326.31	0.00	950	260	36	12	49	NA	
12-Aug-92	9.72	325.70	0.00	660	90	15	55	18	NA	
10-Nov-92	10.56	324.86	0.00	350	23	3.7	15	6.8	NA	
10-Feb-93	7.65	327.77	0.00	660	42	11	29	17	NA	
10-May-93	8.10	327.32	0.00	190	<0.5	<0.5	<0.5	<0.5	NA	
12-Aug-93	9.18	326.24	0.00	360	39	15	23	38	NA	
11-Nov-93	9.38	326.04	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
11-Feb-94	9.02	326.40	0.00	370	32	7.0	19	9.3	NA	
17-May-94	8.58	326.84	0.00	<50	42	13	33	22	NA	
25-Aug-94	9.79	325.63	0.00	190	0.6	<0.5	<0.5	<0.5	NA	
23-Nov-94	9.20	326.22	0.00	310	5.0	1.2	1.9	<0.5	NA	
15-Feb-95	7.36	328.06	0.00	360	46	11 <sup>b</sup>	19	18	NA	
24-May-95	8.80	326.62	0.00	280	22	<0.5	<0.5	<0.5	NA	
25-Aug-95	8.50	326.92	0.00	150	16	3.2	9.1	4.0	NA	
26-Feb-96	5.94	329.48	0.00	<50	1.1	0.6	0.6	<0.5	NA	
23-Aug-96	8.88	326.54	0.00	65	8.6	0.52	0.90	0.68	<2.5	

MW-6 (DUP)										
12-Aug-93	NA	NA	NA	330	43	16	23	40	NA	
24-May-95	NA	NA	NA	330	25	<0.5	<0.5	<0.5	NA	
26-Feb-96	NA	NA	NA	<50	1.9	0.8	1.3	<0.5	NA	

MW-7										
Top casing elevation (ft):		333.23								
26-Aug-88	7.94	325.29	0.00	<50	0.8	<0.5	<0.5	<0.5	NA	
5-Oct-88	7.54	325.69	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
22-Nov-88	NA	NA	NA	700	41	9.0	1.0	20	NA	

**TABLE 5**  
**WELL CONCENTRATIONS**  
**Shell Oil Products Company**  
**7194 Amador Valley Boulevard**  
**Dublin, California**  
**WIC #204-2277-0105**

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
9-Dec-88	7.53	325.70	0.00	<50	<0.5	<0.5	<0.5	0.6	NA	
13-Jan-89	NA	NA	NA	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-Feb-89	6.62	326.61	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
2-Mar-89	7.03	326.20	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
4-Apr-89	6.80	326.43	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
1-May-89	6.53	326.70	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
1-Jun-89	6.93	326.30	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
29-Jun-89	6.85	326.38	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
9-Aug-89	6.67	326.56	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
11-Sep-89	6.90	326.33	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-Oct-89	6.90	326.33	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
25-Oct-89	7.29	325.94	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
20-Dec-89	7.47	325.76	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
17-Jan-90	7.49	325.74	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
23-Feb-90	6.92	326.31	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
4-Jun-90	6.95	326.28	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
20-Nov-90	8.10	325.13	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
12-Feb-91	8.04	325.19	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
6-May-91	6.37	326.86	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
28-Aug-91	7.94	325.29	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
13-Nov-91	8.41	324.82	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
25-Feb-92	6.99	326.24	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
12-May-92	7.42	325.81	0.00	NA	NA	NA	NA	NA	NA	Well now sampled semi-annually
12-Aug-92	8.65	324.58	0.00	52	0.8	0.9	<0.5	<0.5	NA	
10-Nov-92	8.82	324.41	0.00	NA	NA	NA	NA	NA	NA	
10-Feb-93	6.06	327.17	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-May-93	6.68	326.55	0.00	NA	NA	NA	NA	NA	NA	
12-Aug-93	6.83	326.40	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	



TABLE 5

WELL CONCENTRATIONS  
 Shell Oil Products Company  
 7194 Amador Valley Boulevard  
 Dublin, California  
 WIC #204-2277-0105

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
11-Nov-93	6.90	326.33	0.00	NA	NA	NA	NA	NA	NA	
11-Feb-94	6.12	327.11	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
17-May-94	6.06	327.17	0.00	NA	NA	NA	NA	NA	NA	
25-Aug-94	6.76	326.47	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
23-Nov-94	6.75	326.48	0.00	NA	NA	NA	NA	NA	NA	
15-Feb-95	5.40	327.83	0.00	<50	1.9	1.5 <sup>b</sup>	<0.5	2.0	NA	
24-May-95	6.82	326.41	0.00	NA	NA	NA	NA	NA	NA	
25-Aug-95	6.46	326.77	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	

MW-8	Top casing elevation (ft):		335.80							
1-Mar-89	8.28	327.52	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
4-Apr-89	7.31	328.49	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
1-May-89	8.97	326.83	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
31-May-89	9.17	326.63	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
28-Jun-89	9.40	326.40	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
8-Aug-89	9.42	326.38	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
7-Sep-89	8.50	327.30	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-Oct-89	9.46	326.34	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
26-Oct-89	9.56	326.24	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
21-Dec-89	9.57	326.23	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
18-Jan-90	9.29	326.51	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
26-Feb-90	8.50	327.30	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
4-Jun-90	9.04	326.76	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
20-Nov-90	NA	NA	NA	<50	<0.5	<0.5	<0.5	<0.5	NA	
11-Feb-91	9.40	326.40	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
6-May-91	8.70	327.10	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
28-Aug-91	9.68	326.12	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
13-Nov-91	9.87	325.93	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	

**TABLE 5**  
**WELL CONCENTRATIONS**  
**Shell Oil Products Company**  
**7194 Amador Valley Boulevard**  
**Dublin, California**  
**WIC #204-2277-0105**

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
25-Feb-92	7.45	328.35	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
12-May-92	9.19	326.61	0.00	NA	NA	NA	NA	NA	NA	Well now sampled semi-annually
12-Aug-92	9.82	325.98	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-Nov-92	10.41	325.39	0.00	NA	NA	NA	NA	NA	NA	
10-Feb-93	7.35	328.45	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-May-93	8.00	327.80	0.00	NA	NA	NA	NA	NA	NA	
16-Sep-93	9.00	326.80	0.00	<50	0.7	<0.5	<0.5	1.4	NA	
11-Nov-93	9.47	326.33	0.00	NA	NA	NA	NA	NA	NA	
11-Feb-94	8.80	327.00	0.00	<50	1.3	<0.5	0.71	2.5	NA	
17-May-94	8.21	327.59	0.00	NA	NA	NA	NA	NA	NA	
25-Aug-94	9.52	326.28	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
23-Nov-94	9.08	326.72	0.00	NA	NA	NA	NA	NA	NA	
15-Feb-95	6.67	329.13	0.00	<50	<0.5	<0.5	<0.5	1.4	NA	
24-May-95	7.56	328.24	0.00	NA	NA	NA	NA	NA	NA	
25-Aug-95	8.60	327.20	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	

MW-9	Top casing elevation (ft):	334.57								
1-Mar-89	8.48	326.09	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
4-Apr-89	7.69	326.88	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
1-May-89	8.20	326.37	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
31-May-89	8.72	325.85	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
28-Jun-89	9.00	325.57	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
8-Aug-89	8.53	326.04	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
7-Sep-89	8.99	325.58	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-Oct-89	8.89	325.68	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
26-Oct-89	9.02	325.55	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
21-Dec-89	9.48	325.09	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
18-Jan-90	8.73	325.84	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	

**TABLE 5**  
**WELL CONCENTRATIONS**  
**Shell Oil Products Company**  
**7194 Amador Valley Boulevard**  
**Dublin, California**  
**WIC #204-2277-0105**

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
26-Feb-90	9.06	325.51	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
4-Jun-90	8.64	325.93	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
20-Nov-90	9.95	324.62	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
11-Feb-91	9.85	324.72	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
6-May-91	10.05	324.52	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
28-Aug-91	10.34	324.23	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
13-Nov-91	9.39	325.18	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
25-Feb-92	7.18	327.39	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
12-May-92	8.54	326.03	0.00	NA	NA	NA	NA	NA	NA	Well now sampled semi-annually
12-Aug-92	8.97	325.60	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-Nov-92	9.61	324.96	0.00	NA	NA	NA	NA	NA	NA	
10-Feb-93	7.20	327.37	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-May-93	7.56	327.01	0.00	NA	NA	NA	NA	NA	NA	
12-Aug-93	8.25	326.32	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
11-Nov-93	10.30	324.27	0.00	NA	NA	NA	NA	NA	NA	
11-Feb-94	8.88	325.69	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
17-May-94	8.06	326.51	0.00	NA	NA	NA	NA	NA	NA	
25-Aug-94	8.79	325.78	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
23-Nov-94	8.65	325.92	0.00	NA	NA	NA	NA	NA	NA	
15-Feb-95	7.36	327.21	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
24-May-95	7.75	326.82	0.00	NA	NA	NA	NA	NA	NA	
25-Aug-95	7.90	326.67	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	

MW-10	Top casing elevation (ft):	335.37								
2-Mar-89	8.95	326.42	0.00	1000	140	36	<0.5	77	NA	
4-Apr-89	7.89	327.48	0.00	3300	760	240	46	630	NA	
1-May-89	9.07	326.30	0.00	680	99	24	8.1	32	NA	
1-Jun-89	8.86	326.51	0.00	1400	120	39	<0.5	45	NA	

**TABLE 5**  
**WELL CONCENTRATIONS**  
 Shell Oil Products Company  
 7194 Amador Valley Boulevard  
 Dublin, California  
 WIC #204-2277-0105

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
29-Jun-89	9.05	326.32	0.00	1300	51	1.4	6.1	91	NA	
9-Aug-89	9.70	325.67	0.00	860	310	26	45	82	NA	
11-Sep-89	8.14	327.23	0.00	390	55	2.9	4	18	NA	
10-Oct-89	9.21	326.16	0.00	460	85	7.6	10	45	NA	
25-Oct-89	9.60	325.77	0.00	270	20	1.4	3.5	9.3	NA	
20-Dec-89	9.42	325.95	0.00	<50	5.7	<0.5	<0.5	<0.5	NA	
18-Jan-90	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1-Jun-90	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Destroyed

MW-11	Top casing elevation (ft):	334.20								
2-Mar-89	8.30	325.90	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
4-Apr-89	7.52	326.68	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
1-May-89	7.97	326.23	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
31-May-89	8.13	326.07	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
28-Jun-89	8.30	325.90	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
8-Aug-89	8.22	325.98	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
7-Sep-89	8.32	325.88	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
9-Oct-89	8.28	325.92	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
24-Oct-89	8.38	325.82	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
20-Dec-89	8.48	325.72	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
18-Jan-90	8.20	326.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
26-Feb-90	7.86	326.34	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
4-Jun-90	8.13	326.07	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
20-Nov-90	8.83	325.37	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
11-Feb-91	8.95	325.25	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
6-May-91	7.71	326.49	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
28-Aug-91	8.62	325.58	0.00	<50	<0.5	<0.5	<0.5	1.0	NA	
15-Nov-91	8.99	325.21	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	

**TABLE 5**  
**WELL CONCENTRATIONS**  
Shell Oil Products Company  
7194 Amador Valley Boulevard  
Dublin, California  
WIC #204-2277-0105

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
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25-Feb-92	7.21	326.99	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
12-May-92	8.26	325.94	0.00	NA	NA	NA	NA	NA	NA	Well now sampled semi-annually
12-Aug-92	8.75	325.45	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-Nov-92	9.47	324.73	0.00	NA	NA	NA	NA	NA	NA	
11-Feb-93	6.79	327.41	0.00	61 <sup>a</sup>	<0.5	<0.5	<0.5	<0.5	NA	
10-May-93	7.18	327.02	0.00	NA	NA	NA	NA	NA	NA	
12-Aug-93	8.10	326.10	0.00	140	18	13	7.5	32	NA	
11-Nov-93	8.50	325.64	0.00	NA	NA	NA	NA	NA	NA	
11-Feb-94	8.21	325.99	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
17-May-94	7.61	326.59	0.00	NA	NA	NA	NA	NA	NA	
25-Aug-94	8.68	325.52	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
23-Nov-94	8.27	325.93	0.00	NA	NA	NA	NA	NA	NA	
15-Feb-95	6.46	327.74	0.00	<50	<0.5	0.6 <sup>b</sup>	<0.5	<0.5	NA	
24-May-95	7.69	326.51	0.00	NA	NA	NA	NA	NA	NA	
25-Aug-95	7.70	326.50	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	

MW-12	Top casing elevation (ft):		332.53							
2-Mar-89	6.94	325.59	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
4-Apr-89	6.33	326.20	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
1-May-89	6.62	325.91	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
1-Jun-89	6.82	325.71	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
29-Jun-89	7.00	325.53	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
9-Aug-89	6.76	325.77	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
7-Sep-89	6.81	325.72	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
9-Oct-89	7.11	325.42	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
24-Oct-89	7.60	324.93	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
20-Dec-89	8.25	324.28	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
18-Jan-90	8.23	324.30	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	

**TABLE 5**

**WELL CONCENTRATIONS**  
**Shell Oil Products Company**  
**7194 Amador Valley Boulevard**  
**Dublin, California**  
**WIC #204-2277-0105**

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
26-Feb-90	7.54	324.99	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
4-Jun-90	7.96	324.57	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
20-Nov-90	8.80	323.73	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
12-Feb-91	7.85	324.68	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
6-May-91	7.35	325.18	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
28-Aug-91	7.79	324.74	0.00	<50	<0.5	<0.5	<0.5	1.0	NA	
13-Nov-91	7.89	324.64	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
25-Feb-92	6.14	326.39	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
12-May-92	7.54	324.99	0.00	NA	NA	NA	NA	NA	NA	Well Removed from Sampling Program
12-Aug-92	9.83	322.70	9.83	NA	NA	NA	NA	NA	NA	
10-Nov-92	8.32	324.21	8.32	NA	NA	NA	NA	NA	NA	
10-Feb-93	6.75	325.78	6.75	NA	NA	NA	NA	NA	NA	
10-May-93	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
12-Aug-93	6.23	326.30	6.23	NA	NA	NA	NA	NA	NA	
11-Nov-93	7.43	325.10	7.43	NA	NA	NA	NA	NA	NA	
11-Feb-94	7.18	325.35	7.18	NA	NA	NA	NA	NA	NA	
17-May-94	6.80	325.73	6.80	NA	NA	NA	NA	NA	NA	
24-Aug-94	7.24	325.29	7.24	NA	NA	NA	NA	NA	NA	
23-Nov-94	7.16	325.37	7.16	NA	NA	NA	NA	NA	NA	
15-Feb-95	5.16	327.37	5.16	NA	NA	NA	NA	NA	NA	
24-May-95	6.95	325.58	6.95	NA	NA	NA	NA	NA	NA	
25-Aug-95	5.63	326.90	5.63	NA	NA	NA	NA	NA	NA	

MW-13	Top casing elevation (ft):	335.64								
6-May-91	8.37	327.27	0.00	1100	430	30	41	130	NA	
28-Aug-91	9.82	325.82	0.00	1000	350	6.4	44	43	NA	
13-Nov-91	10.19	325.45	0.00	680	320	5.6	38	17	NA	
25-Feb-92	7.66	327.98	0.00	780	260	3.5	26	15	NA	

**TABLE 5**  
**WELL CONCENTRATIONS**  
**Shell Oil Products Company**  
**7194 Amador Valley Boulevard**  
**Dublin, California**  
**WIC #204-2277-0105**

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
12-May-92	9.16	326.48	0.00	660	210	3.5	26	5.8	NA	
12-Aug-92	10.91	324.73	0.00	400	140	9.6	21	23	NA	
10-Nov-92	10.69	324.95	0.00	60	220	2.9	23	11	NA	
11-Feb-93	7.49	328.15	0.00	970	340	11	29	32	NA	
10-May-93	8.06	327.58	0.00	2300	440	<0.5	<0.5	<0.5	NA	
12-Aug-93	8.73	326.91	0.00	8900	670	23	76	61	NA	
11-Nov-93	9.15	326.49	0.00	470	230	<2.5	27	11	NA	
11-Feb-94	9.12	326.52	0.00	200	39	<0.5	4.7	3.9	NA	
17-May-94	8.62	327.02	0.00	<50	88	<0.5	12	10	NA	
25-Aug-94	9.32	326.32	0.00	410	110	4.2	10	15	NA	
23-Nov-94	9.37	326.27	0.00	180	66	4.8	8.2	9.8	NA	
15-Feb-95	8.42	327.22	0.00	320	79	5.6 <sup>b</sup>	7.5	23	NA	
24-May-95	9.90	325.74	0.00	230	32	1.2	1.1	2.5	NA	
25-Aug-95	8.32	327.32	0.00	930	320	17	48	36	NA	
26-Feb-96	5.76	329.88	0.00	160	24	1.7	7.8	3.9	NA	
23-Aug-96	8.66	326.98	0.00	980	220	22	56	64	<25	

<b>MW-13 (DUP)</b>										
11-Nov-93	NA	NA	NA	610	190	<2.5	21	8.0	NA	
11-Feb-94	NA	NA	NA	290	55	1.3	8.8	4.8	NA	
17-May-94	NA	NA	NA	<50	96	<0.5	13	11	NA	
23-Nov-94	NA	NA	NA	240	430	6.5	11	13	NA	
15-Feb-95	NA	NA	NA	300	90	5.7 <sup>b</sup>	7.4	24	NA	

<b>RW-1</b>	<b>Top casing elevation (ft):</b>		<b>336.19</b>							
9-Dec-89	10.73	325.46	0.00	6800	740	5.0	11	37	NA	
13-Jan-89	NA	NA	NA	10000	3200	27	60	<0.5	NA	
10-Feb-89	10.91	325.28	0.00	6000	2800	<0.5	<0.5	<0.5	NA	

**TABLE 5**  
**WELL CONCENTRATIONS**  
**Shell Oil Products Company**  
**7194 Amador Valley Boulevard**  
**Dublin, California**  
**WIC #204-2277-0105**

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
<i>RW-1</i>										
2-Mar-89	10 15	326.04	0.00	3900	2400	<0.5	<0.5	<0.5	NA	
5-Apr-89	9 34	326.85	0.00	1700	1000	<0.5	9.0	<0.5	NA	
1-May-89	9.85	326.34	0.00	900	390	5.0	10	<0.5	NA	
1-Jun-89	9 96	326.23	0.00	1100	1.4	3.3	<0.5	13	NA	
30-Jun-89	9 90	326.29	0.00	1400	<0.5	<0.5	<0.5	<0.5	NA	
9-Aug-89	9 80	326.39	0.00	7500	1700	210	280	300	NA	
11-Sep-89	10 02	326.17	0.00	97	1.7	2.1	2.3	14	NA	
10-Oct-89	9.88	326.31	0.00	1400	48	4.5	<0.5	3.0	NA	
25-Oct-89	9 80	326.39	0.00	820	51	1.2	25	3.0	NA	
21-Dec-89	10 25	325.94	0.00	490	16	1.0	8.5	19	NA	
17-Jan-90	9 80	326.39	0.00	<50	27	1.7	14	1.6	NA	
23-Feb-90	9 60	326.59	0.00	420	42	1.8	13	2.7	NA	
4-Jun-90	9 97	326.22	0.00	180	23	0.7	5.3	1.2	NA	
20-Nov-90	10 50	325.69	0.00	1900	170	52	29	38	NA	
11-Feb-91	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well not sampled
25-Feb-92	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well not gauged
12-May-92	NA	NA	NA	NA	NA	NA	NA	NA	NA	
12-Aug-92	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10-Nov-92	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10-May-93	9 26	326.93	0.00	NA	NA	NA	NA	NA	NA	
12-Aug-93	NA	NA	NA	NA	NA	NA	NA	NA	NA	
11-Nov-93	NA	NA	NA	NA	NA	NA	NA	NA	NA	
11-Feb-94	9 98	326.21	0.00	NA	NA	NA	NA	NA	NA	
17-May-94	9 29	326.90	0.00	NA	NA	NA	NA	NA	NA	
25-Aug-94	10 56	325.63	0.00	NA	NA	NA	NA	NA	NA	
23-Nov-94	10 07	326.12	0.00	NA	NA	NA	NA	NA	NA	
15-Feb-95	8 20	327.99	0.00	NA	NA	NA	NA	NA	NA	



**TABLE 5**  
**WELL CONCENTRATIONS**  
**Shell Oil Products Company**  
**7194 Amador Valley Boulevard**  
**Dublin, California**  
**WIC #204-2277-0105**

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
24-May-95	9.66	326.53	0.00	NA	NA	NA	NA	NA	NA	
25-Aug-95	9.37	326.82	0.00	NA	NA	NA	NA	NA	NA	

Abbreviations:

TPPH = Total Purgeable Petroleum Hydrocarbons carbon range C6 to C12 by Modified EPA Method 8015  
 (previously reported as Total Petroleum Hydrocarbons as Gasoline)

BTEX = benzene, toluene, ethylbenzene, xylenes analyzed by EPA Method 8020

MTBE = methyl-tertiary-butyl ether by EPA Method 8020

<x = Not detected at detection limit of x

NA = Not analyzed or not available

(DUP) = Duplicate sample

Notes

a = Laboratory noted concentration is not indicative of gasoline.

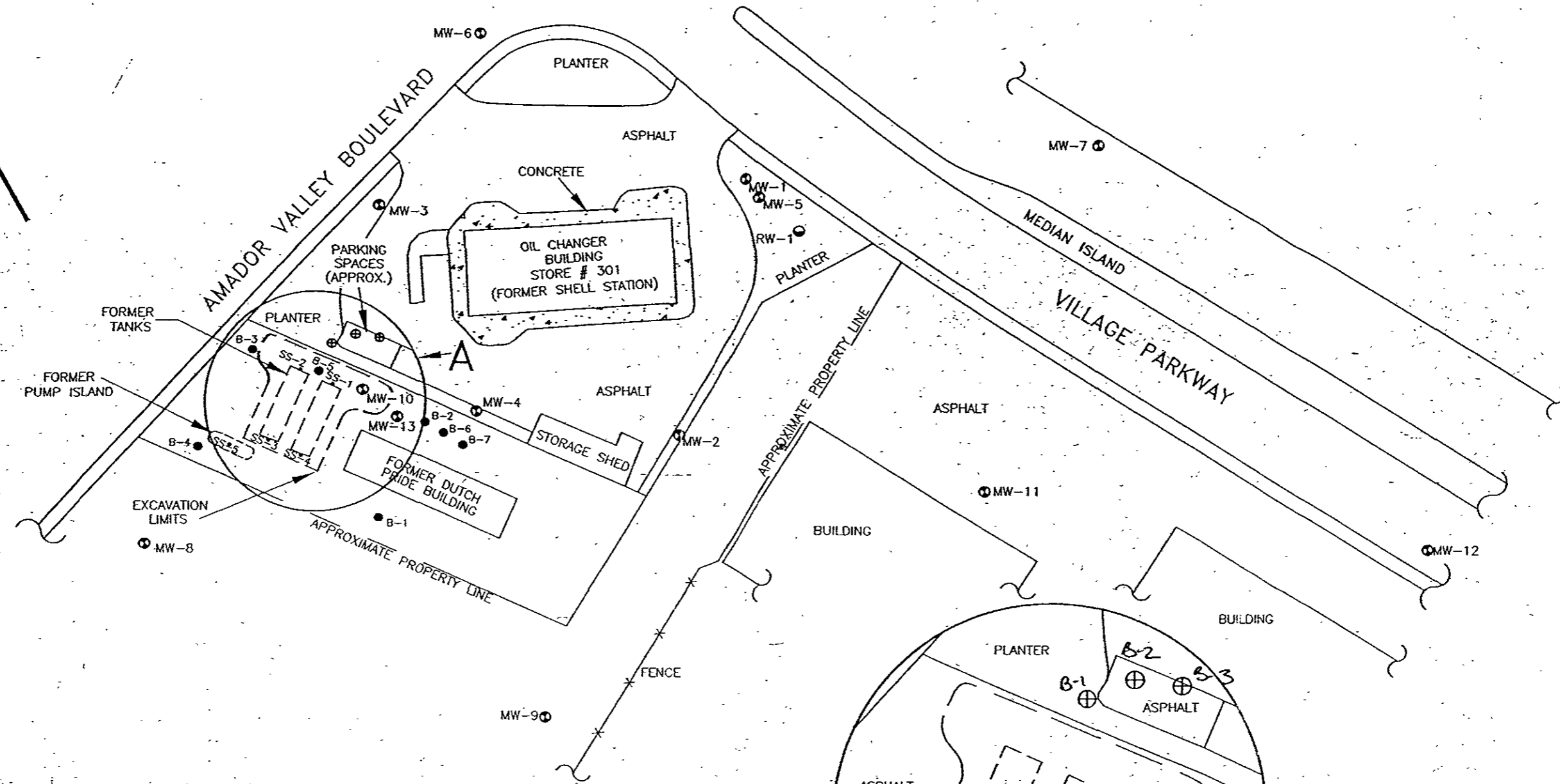
b = National Environmental Testing, Inc. noted toluene in the equipment and trip blanks at 1.1 and 1.0 ppb, respectively. This may have affected results for this quarter.

(\*) = Well MW-2 did not confirm MTBE by EPA method 8260 therefore all MTBE results for this site should be considered estimated.

Elevations referenced to Mean Sea Level

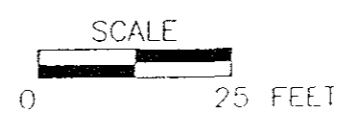
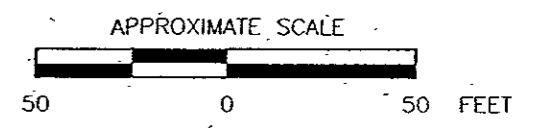
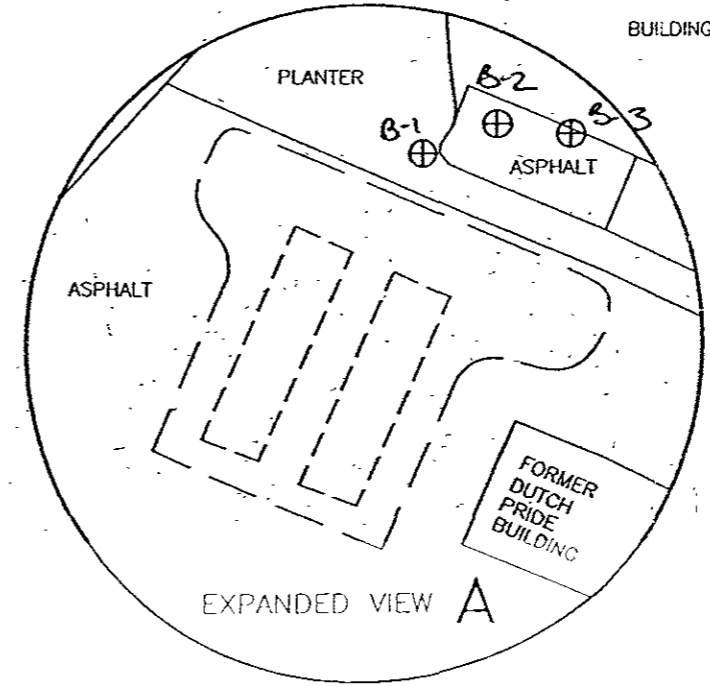
Depth to water measured from top of casing

DRAWING NUMBER 94-270-B1



**LEGEND:**

- MW-13 ⊕ = Former Shell groundwater monitoring well
- RW-1 ⊕ = Former Shell recovery well
- B-7 ● = Soil boring (TMC Environmental Inc., January 1992)
- SS-5 ● = Soil sample (TMC Environmental Inc., January 1990)
- ⊕ = Proposed soil boring



GENERALIZED SITE PLAN  
 DODGE PROPERTY  
 7400 AMADOR VALLEY BOULEVARD  
 DUBLIN, CALIFORNIA

PREPARED FOR  
 MS. JEANNE DODGE  
 WALNUT CREEK, CALIFORNIA

**SMTH**

NO.	DATE	ISSUE / REVISION	BY	CHKD BY	APP'D BY
1			PAJ		JB

Source: Modified from map obtained from TMC ENVIRONMENTAL INC.

DATE	2-14-95	FIGURE 1	DRAWING NUMBER
SCALE	AS SHOWN		94-270-B1

FIG 7

TABLE 1

LABORATORY ANALYTICAL RESULTS - SOIL  
OIL CHANGER PROPERTY  
DUBLIN, CALIFORNIA

from  
Boring K-3  
Std. Sp. 6

Sample Number	Date Sampled	Sample Depth (feet)	TPH-G (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Total Xylenes (ppm)	Total Lead (ppm)
S-1	9/5/95	12	1,100	8.4	35	17	99	NR
SC-1	9/5/95	NA	< 1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 5.0

Notes:

TPH-G Total petroleum hydrocarbons as gasoline  
 ppm Parts per million (kg/mg)  
 < Less than listed laboratory detection limit in ppm  
 NA Not applicable  
 NR Analyses not required

Table 6



TABLE 2

LABORATORY ANALYTICAL RESULTS - WATER  
OIL CHANGER PROPERTY  
DUBLIN, CALIFORNIA

*from  
Boring B-3  
Rinseate*

Sample Number	Date Sampled	TPH-G (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Total Xylenes (ppb)
W-1	9/5/95	120,000	19,000	12,000	2,600	15,000
RW-1	9/5/95	< 250	< 2.5	< 2.5	< 2.5	< 2.5

Notes:

TPH-G Total petroleum hydrocarbons as gasoline

ppb Parts per billion (ug/l)

< Less than listed laboratory detection limit in ppb

*Table 7*

TABLE 1

LABORATORY ANALYTICAL RESULTS - SOIL  
OIL CHANGER PROPERTY  
DUBLIN, CALIFORNIA

from  
Boring B-3  
St. 426

Sample Number	Date Sampled	Sample Depth (feet)	TPH-G (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Total Xylenes (ppm)	Total Lead (ppm)
S-1	9/5/95	12	1,100	8.4	35	17	99	NR
SC-1	9/5/95	NA	< 1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 5.0

Notes:

TPH-G Total petroleum hydrocarbons as gasoline  
 ppm Parts per million (kg/mg)  
 < Less than listed laboratory detection limit in ppm  
 NA Not applicable  
 NR Analyses not required

Table 10

PROJECT No. 94-270-01-10  
 BORING No. B-1  
 LOGGED BY RICH GARLOW

PROJECT NAME: DODGE PROPERTY  
 BORING LOCATION: DUBLIN, CALIFORNIA  
 DRILLER: PRECISION SAMPLING  
 SURFACE ELEV.:  
 DATE STARTED: 09/05/95 DATE FINISHED: 09/05/95

DEPTH (ft)	SAMPLE		BLOW COUNT			REC (in)	USCS CLASS	GRAPHIC LOG	WC (%)	G <sub>v</sub> (tsf)	LAYER DEPTH	SOIL DESCRIPTION AND REMARKS	PIEZO		
	No.	TYPE	INTERVAL		0'									6'	12'
			FROM	TO	5'									12'	18'
0.0	1	CR	0.0	4.0			6				Grass, roots and soil.				
4.0	2	CR	4.0	7.0			34				Dark brown, silty CLAY, traces of sand and gravel, roots and root holes, medium plasticity, moist.				
7.0	3	CR	7.0	10.0			35				Increasing sand. OVM - 7 ppm				
10.0	4	CR	10.0	13.0			38				Dark brown, sandy CLAY, fine grained sand, trace of gravel, medium plasticity, moist.				
13.0	5	CR	13.0	16.0			35				Dark gray, clayey SAND, fine grained sand, moist to very moist. OVM - 15 ppm				
											Dark gray, silty CLAY, trace of sand and gravel, fine grained sand stringers -1 to 5 mm across, free-water in sand stringers below -14 feet, high plasticity, moist.				
											OVM - 2,100 ppm				
											OVM - 1,800 ppm				
											OVM - 2,140 ppm				
											OVM - 2,200 ppm				

BORING LOGS

PROJECT No. 94-270-01-10

BORING No. B-1

LOGGED BY RICH GARLOW

PROJECT NAME: DODGE PROPERTY

BORING LOCATION: DUBLIN, CALIFORNIA

SURFACE ELEV: \_\_\_\_\_

DRILLER: PRECISION SAMPLING

DATE STARTED: 09/05/95

DATE FINISHED: 09/05/95

DEPTH (ft)	SAMPLE		BLOW COUNT			REC (in)	USCS CLASS	GRAPHIC LOG	WC (%)	Q <sub>u</sub> (tsf)	LAYER DEPTH	SOIL DESCRIPTION AND REMARKS		
	No.	TYPE	INTERVAL		0"								6"	12"
			FROM	TO	6"								12"	18"
6	CR	16.0	19.0				OH					OVM - 89 ppm OVM - 24 ppm OVM - 4 ppm		
7	CR	19.0	22.0				OH					Small shell fragments. OVM - 6 ppm OVM - 3 ppm		
20							SC				20.5	Dark gray, clayey SAND, fine grained sand, very moist to wet. OVM - 4 ppm		
8	CR	22.0	25.0				OH				21.5	Dark gray, silty CLAY, trace of sand and gravel, fine gravel, sand stringers ~1 to 5 mm across, free-water in sand stringers, moist.		
25											25	Bottom of Boring at 25 feet.		
30												Notes: 1. Boring was advanced by driving 2-inch casing 2. Free-water encountered in sand stringers below ~14 feet 3. After completion the boring was backfilled with cement grout to the surface. 4. Organic vapor meter (OVM) readings record in parts per million (ppm). Background ~3 ppm.		

PROJECT No. 94-270-01-10

BORING No. B-2

LOGGED BY RICH GARLOW

PROJECT NAME: DODGE PROPERTY

BORING LOCATION: DUBLIN, CALIFORNIA

SURFACE ELEV: \_\_\_\_\_

DRILLER: PRECISION SAMPLING

DATE STARTED: 09/05/95

DATE FINISHED: 09/05/95

DEPTH (ft)	SAMPLE		BLOW COUNT			REC (in)	USCS CLASS	GRAPHIC LOG	WC (%)	Q <sub>u</sub> (tsf)	LAYER DEPTH	SOIL DESCRIPTION AND REMARKS	PIEZO		
	No.	TYPE	INTERVAL		0"									6"	12"
			FROM	TO	6"									12"	18"
	1	CR	0.0	4.0								Asphalt and base rock.			
						6					.5	Dark gray, silty CLAY, trace of sand and gravel, roots and root holes, medium plasticity, moist.			
5	2	CR	4.0	7.0		9	CL					OVM - 15 ppm			
											7	Dark gray, silty CLAY, trace of sand and gravel, high plasticity, moist. OVM - 14 ppm			
	3	CR	7.0	10.0		34	OH					OVM - 36 ppm			
10	4	CR	10.0	13.0		35	SW				11.5	Dark gray SAND, fine to medium grained sand, trace of gravel, moist. OVM - 2,500 ppm			
											12.5	Dark gray, silty CLAY, trace of sand and gravel, fine grained sand stringers ~1 to 5 mm across, tree-water in sand stringers below ~14 feet, high plasticity, moist. OVM - >2,500 ppm			
15	5	CR	13.0	16.0		36	OH					OVM - 700 ppm			



PROJECT No. 94-270-01-10

BORING No. B-2

LOGGED BY RICH GARLOW

PROJECT NAME: DODGE PROPERTY

BORING LOCATION: DUBLIN, CALIFORNIA

SURFACE ELEV: \_\_\_\_\_

DRILLER: PRECISION SAMPLING

DATE STARTED: 09/05/95

DATE FINISHED: 09/05/95

DEPTH (ft)	SAMPLE				BLOW COUNT			REC (in)	USCS CLASS	GRAPHIC LOG	WC (%)	G <sub>v</sub> (tsf)	LAYER DEPTH	SOIL DESCRIPTION AND REMARKS	PIEZO
	No.	TYPE	INTERVAL		0'	6'	12'								
			FROM	TO	6"	12"	18"								
6	CR	16.0	19.0				36							OVM - 100 ppm	
7	CR	19.0	21.5				35	OH						OVM - 5 ppm	
20														OVM - 5 ppm	
														OVM - 11 ppm	
													21.5	OVM - 6 ppm	
														Bottom of Boring at 21.5 feet.	
														Notes:	
														1. Boring advanced by driving 2-inch casing.	
														2. Free-water encountered in sand stringers below ~14 feet.	
														3. After completion the boring was backfilled with cement grout and capped with asphalt plug at surface.	
														4. Organic vapor meter (OVM) readings recorded in parts per million (ppm). Background ~3 ppm.	
25															
30															

PROJECT No. 94-270-01-10

BORING No. B-3

LOGGED BY RICH GARLOW

PROJECT NAME: DODGE PROPERTY

BORING LOCATION: DUBLIN, CALIFORNIA

DRILLER: PRECISION DRILLING

SURFACE ELEV: \_\_\_\_\_

DATE STARTED: 09/05/95

DATE FINISHED: 09/05/95

DEPTH (ft)	SAMPLE		BLOW COUNT			REC (in)	USCS CLASS	GRAPHIC LOG	WC (%)	G <sub>u</sub> (tsf)	LAYER DEPTH	SOIL DESCRIPTION AND REMARKS	PIEZO		
	No.	TYPE	INTERVAL		0"									6"	12"
			FROM	TO	6"									12"	18"
0	1	CR	0.0	4.0											
5	2	CR	4.0	7.0		35	CL					Asphalt and base rock. Dark gray, silty CLAY, trace of sand and gravel, roots and root holes, medium plasticity, moist.			
10	3	CR	7.0	10.0		36	OH					Dark gray, silty CLAY, trace of sand and gravel, high plasticity, moist. OVM - 7 ppm OVM - 6 ppm OVM - 70 ppm OVM - 188 ppm			
15	4	CR	10.0	13.0		34									
15	S-1	SOIL	12.0	12.5		6	SC					Dark gray, clayey SAND, fine to medium grained sand, trace of gravel, moist to very moist. OVM - >2,500 ppm			
15	5	CR	13.0	16.0		34	OH					Dark gray, silty CLAY, trace of sand and gravel, fine grained sand stringers 1 to 5 mm across, free-water in sand stringer below ~14 feet, high plasticity, moist. OVM - >2,500 ppm OVM - 2,000 ppm			

PROJECT No. 94-270-01-10

BORING No. B-3

LOGGED BY RICH GARLOW

PROJECT NAME: DODGE PROPERTY

BORING LOCATION: DUBLIN, CALIFORNIA

SURFACE ELEV: \_\_\_\_\_

DRILLER: PRECISION DRILLING

DATE STARTED: 09/05/95

DATE FINISHED: 09/05/95

DEPTH (ft)	SAMPLE		BLOW COUNT			REC (in)	USCS CLASS	GRAPHIC LOG	WC (%)	G <sub>u</sub> (tsf)	LAYER DEPTH	SOIL DESCRIPTION AND REMARKS		
	No.	TYPE	INTERVAL		0"								6"	12"
			FROM	TO	6"								12"	18"
16.0 - 19.0	6	CR	16.0	19.0								OVM - 1,400 ppm  OVM - 50 ppm  OVM - 3 ppm		
19.0 - 19.0						36	OH					Bottom of Boring at 19 feet.  Notes: 1. Boring advanced by driving 2-inch casing. 2. Free-water encountered in sand stringers below ~14 feet. 3. After completion a grab water sample was collected and then the boring was backfilled with cement grout and capped with asphalt plug at surface. 4. Organic vapor meter (OVM) reading recorded in parts per million (ppm). Background ~3 ppm.		



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# EXPLORATORY BORING LOG

PROJECT NAME: Shell Oil Company  
Dublin, CA

BORING NO. MW-1

DATE DRILLED: 28-Apr-88

PROJECT NUMBER: 1826G

LOGGED BY: J. Rike

DEPTH (ft.)	SAMPLE No	BLOYS/FOOT 140 ft./lbs.	UNIFIED SOIL CLASSIFICATION	SOIL DESCRIPTION	WATER LEVEL	OVA READING ppm
1			CH	SILTY CLAY - very dark grey (2.5 YR N3), 5 to 10% medium gravel, medium stiff, plastic, moist, organic odor and slight product odor.	▼	12
2						
3						
4						
5	SDC-1001	14				
6						
7						
8						
9				Static Water Level Measured 9-May-88 At 8.72 Feet.		
10	SDC-1002	11				20
11						
12						
13						
14				- grades to dark grayish brown (10YR, 4/2), mottled with oxidation staining, no product odor.		
15	SDC-1003	8				14
16						
17						
18			CL	SILTY CLAY - dark grey (7.5 YR N5), stiff, low plasticity, wet, no product odor.		
19						
20	SDC-1004	19				8
Continued Next Page						



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# EXPLORATORY BORING LOG

PROJECT NAME: Shell Oil Company  
Dublin, CA  
PROJECT NUMBER: 1826G

BORING NO. MW-1  
DATE DRILLED: 28-Apr-88  
LOGGED BY: J. Rike

DEPTH (ft.)	SAMPLE No	BLOWS/FOOT 140 ft/lbs.	UNIFIED SOIL CLASSIFICATION	SOIL DESCRIPTION	WATER LEVEL	OVA READING ppm
21	SDC- 1005	25	CL	SILTY CLAY - dark grey (7.5 YR N5), stiff, low plasticity, wet, no product odor.  - grades to dark greenish grey (5GY 5/1),		1
22						
23						
24						
25				Bottom Of Boring 25.5 Feet		
26						

SUPERVISED AND APPROVED BY: L. D. Powell

C.E.G. No. 1187

# Monitoring Well Detail

PROJECT NUMBER 1826G  
 PROJECT NAME Shell Oil Company-Dublin  
 COUNTY Alameda  
 WELL PERMIT NO. 88082

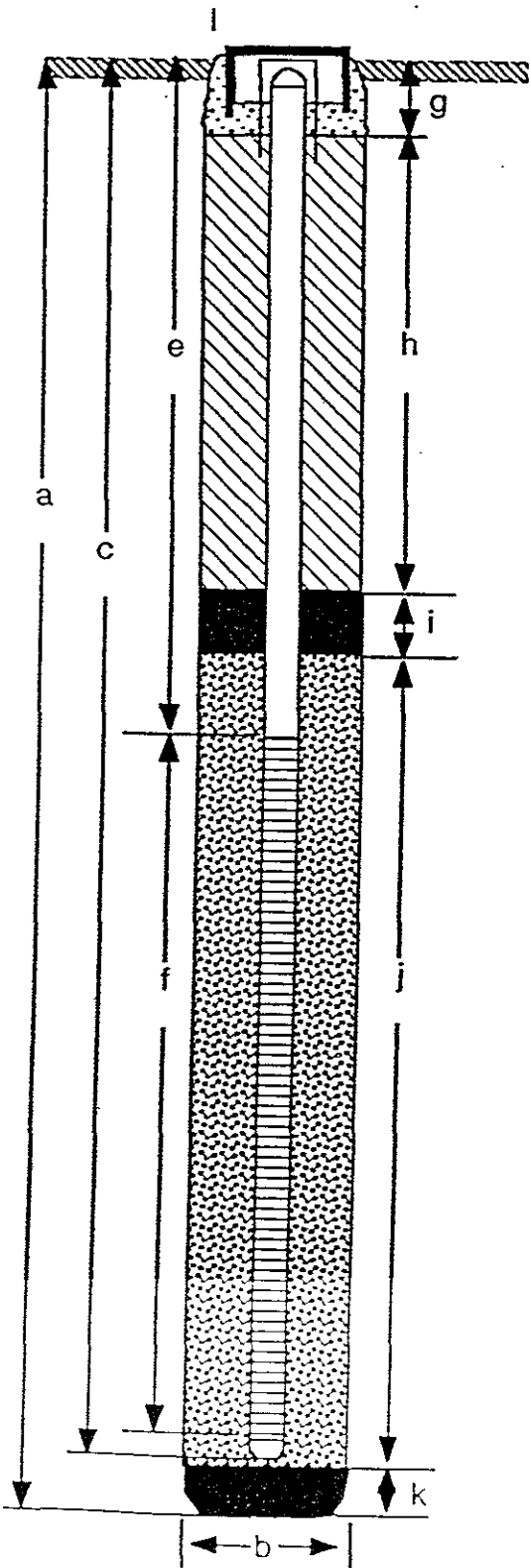
BORING / WELL NO. MW-1  
 TOP OF CASING ELEV. 334.84  
 GROUND SURFACE ELEV. ---  
 DATUM Mean Sea Level

## EXPLORATORY BORING

a. Total Depth 25.5 ft.  
 b. Diameter 10 in.  
 Drilling method Hollow Stem Auger

## WELL CONSTRUCTION

c. Casing length 25.28 ft.  
 Material Schedule 40 PVC  
 d. Diameter 4 in.  
 e. Depth to top perforations 5 ft.  
 f. Perforated length 20 ft.  
 Perforated interval from 5 to 25 ft.  
 Perforation type machine slot  
 Perforation size 0.02 in.  
 g. Surface seal .5 ft.  
 Seal Material Concrete  
 h. Backfill 3 ft.  
 Backfill material Neat Cement Grout  
 i. Seal 1 ft.  
 Seal Material 1/2 In. Bentonite Pellets  
 j. Gravel pack 21 ft.  
 Pack material 2/20 Monterey Type Sand  
 k. Bottom seal --- ft.  
 Seal material n/a  
 l. Steel Protective Casing With Locking Cover





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# EXPLORATORY BORING LOG

PROJECT NAME: Shell Oil Company  
Dublin, CA  
PROJECT NUMBER: 1826G

BORING NO. MW-2  
DATE DRILLED: 28-Apr-88  
LOGGED BY: J. Rike

DEPTH (ft.)	SAMPLE No	BLOWS/FOOT 140 ft/lbs.	UNIFIED SOIL CLASSIFICATION	SOIL DESCRIPTION	WATER LEVEL	OVA READING ppm
1			CH	<p>SILTY CLAY - very dark grey (2.5 YR N3), trace very fine sand, trace gravel (&lt;5%), medium stiff, plastic, damp, organic odor and slight product odor, minor small wood fragments and oxidation staining.</p> <p>- stiff and strong product odor at 10 feet, moist</p> <p>Static Water Level Measured 9-May-88 At 10.85 Feet.</p> <p>- grades to dark greyish brown (10YR 4/2), mottling with grey, stiff, moist, plastic, no product odor.</p>		5
2						
3						
4						
5	SDC-1006	9				
6						
7						
8						
9						
10	SDC-1007	17				
11						60
12						
13						
14						
15	SDC-1008	14				7
16						
17						
18			CL	<p>SILTY CLAY - dark gray (5YR, 4/1), very stiff to stiff, plastic, moist, no product odor.</p>		
19						
20	SDC-1009	24				
Continued Next Page						



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# EXPLORATORY BORING LOG

PROJECT NAME: Shell Oil Company  
Dublin, CA  
PROJECT NUMBER: 1826G

BORING NO. MW-2  
DATE DRILLED: 28-Apr-88  
LOGGED BY: J. Rike

DEPTH (ft.)	SAMPLE No	BLOWS/FOOT 140 ft/lps.	UNIFIED SOIL CLASSIFICATION	SOIL DESCRIPTION	WATER LEVEL	OVA READING ppm
21			CL	SILTY CLAY - dark grey (5 YR 4/1), stiff to very stiff, less plastic, moist, no product odor.		
22						
23				- grades to dark greenish grey (5GY 5/1),		
24						
25	SDC-1010	24				1
26				Bottom Of Boring 25.5 Feet		

SUPERVISED AND APPROVED BY: L. D. Powell

C.E.G. No. 1187



# Monitoring Well Detail

PROJECT NUMBER 1826G  
 PROJECT NAME Shell Oil Company-Dublin  
 COUNTY Alameda  
 WELL PERMIT NO. 88082

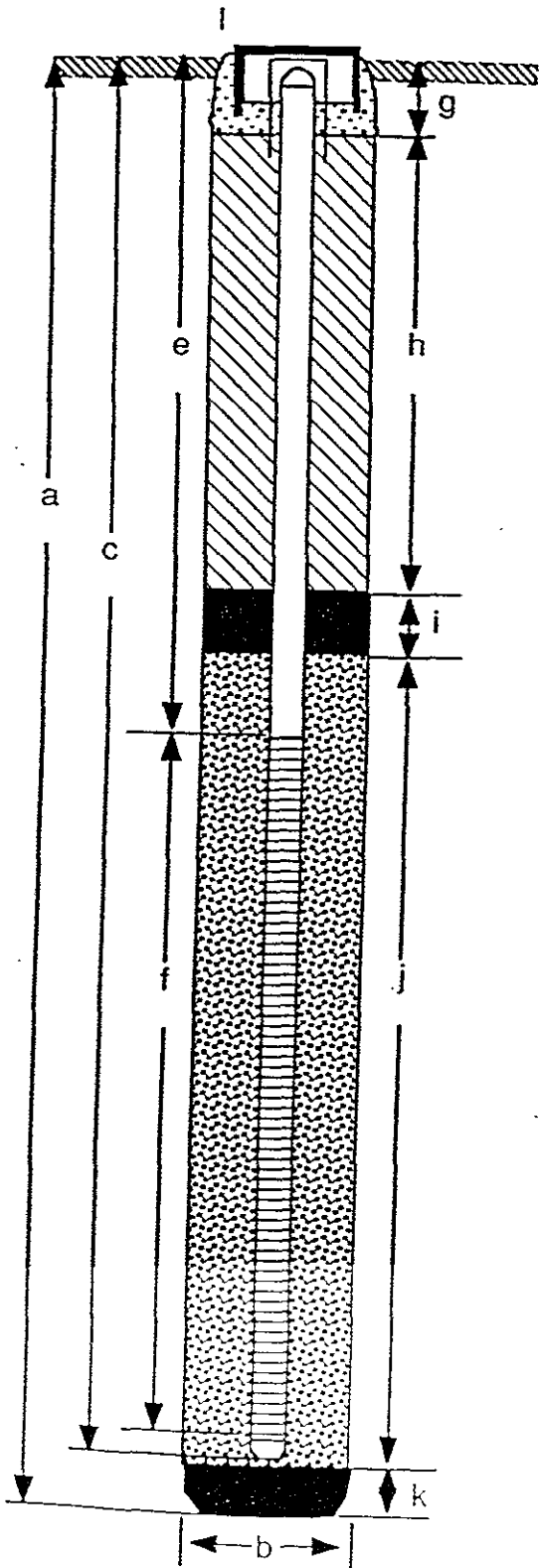
BORING / WELL NO. MW-2  
 TOP OF CASING ELEV. 336.96  
 GROUND SURFACE ELEV. ---  
 DATUM Mean Sea Level

## EXPLORATORY BORING

a. Total Depth 25.5 ft.  
 b. Diameter 10 in.  
 Drilling method Hollow Stem Auger

## WELL CONSTRUCTION

c. Casing length 24.66 ft.  
 Material Schedule 40 PVC  
 d. Diameter 4 in.  
 e. Depth to top perforations 6 ft.  
 f. Perforated length 18 ft.  
 Perforated interval from 6 to 24 ft.  
 Perforation type machine slot  
 Perforation size 0.02 in.  
 g. Surface seal .5 ft.  
 Seal Material Concrete  
 h. Backfill 3 ft.  
 Backfill material Neat Cement Grout  
 i. Seal 1 ft.  
 Seal Material 1/2 In. Bentonite Pellets  
 j. Gravel pack 20 ft.  
 Pack material 2/20 Monterey Type Sand  
 k. Bottom seal --- ft.  
 Seal material n/a  
 l. Steel Protective Casing With Locking Cover



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# EXPLORATORY BORING LOG

PROJECT NAME: Shell Oil Company  
Dublin, CA  
PROJECT NUMBER: 1826G

BORING NO. MW-3  
DATE DRILLED: 29-Apr-88  
LOGGED BY: B. Von Thaden

DEPTH (ft.)	SAMPLE No	BLOWS/FOOT 140 ft/lbs.	UNIFIED SOIL CLASSIFICATION	SOIL DESCRIPTION	WATER LEVEL	OVA READING ppm
1			OL	SILTY CLAY - very dark grey (2.5 YR N3), trace fine sand, trace gravel (<5%), stiff, low to moderate plasticity, damp, organic odor, no product odor.		
2						
3						
4						
5	SDC-1011	19				1
6						
7						
8				- increasing moisture at 8 feet		
9						
10	SDC-1012	14		- at 10 feet, strong product odor		
11				Static Water Level Measured 9-May-88 At 10.59 Feet.	▼	64
12						
13						
14						
15	SDC-1013	8		- grades to dark grayish brown (2.5YR, 4/2), mottled with oxidation staining, medium plasticity, firm, wet, no product odor.		3
16						
17						
18			CL	SILTY CLAY - dark greenish grey (7.5 YR N5) mottled with dark grayish brown (2.5YR 4/2), low to medium plasticity, stiff, wet, no product odor.		
19						
20	SDC-1014	9				7
				Continued Next Page		



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# EXPLORATORY BORING LOG

PROJECT NAME: Shell Oil Company  
Dublin, CA  
PROJECT NUMBER: 1826G

BORING NO. MW-3  
DATE DRILLED: 29-Apr-88  
LOGGED BY: B. Von Thaden

DEPTH (ft.)	SAMPLE No	BLOWS/FOOT 140 ft/lbs.	UNIFIED SOIL CLASSIFICATION	SOIL DESCRIPTION	WATER LEVEL	OVA READING ppm
21	SDC- 1015	21	CL	SILTY CLAY - dark greenish grey (7.5 YR N5) mottled with dark grayish brown (2.5YR 4/2), low to medium plasticity, stiff, wet, no product odor.		0
22						
23						
24						
25						
26				Bottom Of Boring 25.5 Feet		

SUPERVISED AND APPROVED BY: L. Di Paolo

C.E.G. No. 1187

# Monitoring Well Detail

PROJECT NUMBER 1826G  
 PROJECT NAME Shell Oil Company-Dublin  
 COUNTY Alameda  
 WELL PERMIT NO. 88082

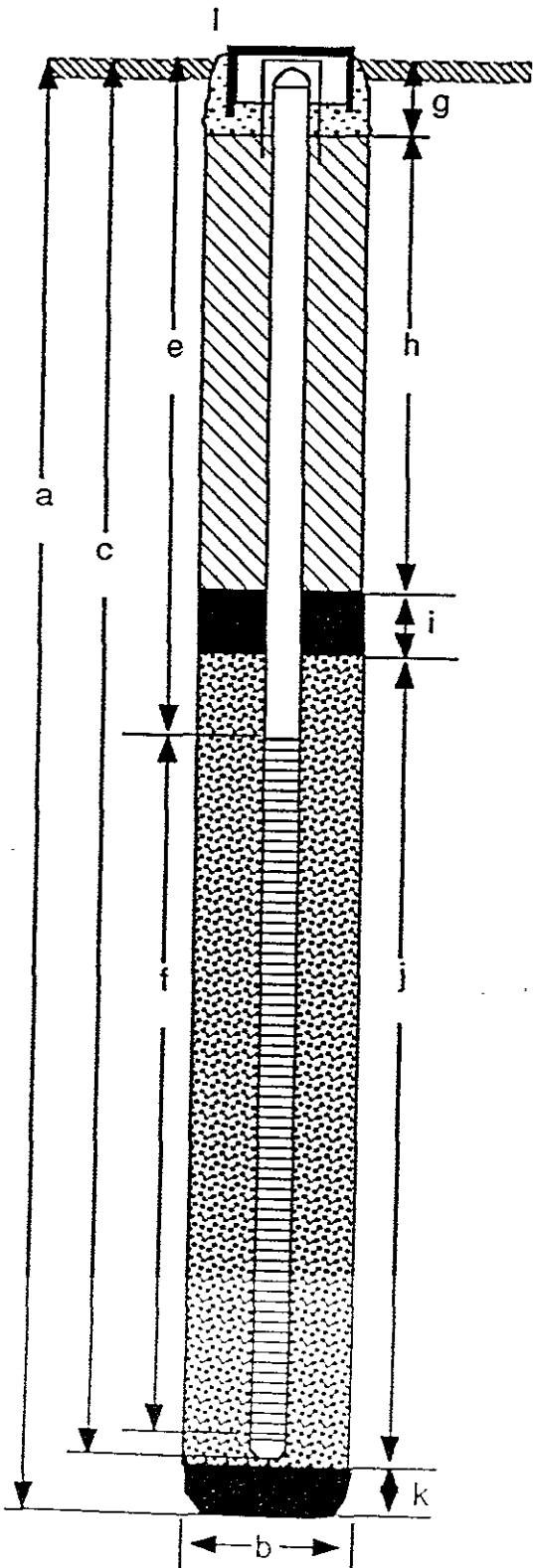
BORING / WELL NO. MW-3  
 TOP OF CASING ELEV. 336.97  
 GROUND SURFACE ELEV. ---  
 DATUM Mean Sea Level

## EXPLORATORY BORING

a. Total Depth 25.5 ft.  
 b. Diameter 10 in.  
 Drilling method Hollow Stem Auger

## WELL CONSTRUCTION

c. Casing length 24.44 ft.  
 Material Schedule 40 PVC  
 d. Diameter 4 in.  
 e. Depth to top perforations 6 ft.  
 f. Perforated length 18 ft.  
 Perforated interval from 6 to 24 ft.  
 Perforation type machine slot  
 Perforation size 0.02 in.  
 g. Surface seal .5 ft.  
 Seal Material Concrete  
 h. Backfill 3 ft.  
 Backfill material Neat Cement Grout  
 i. Seal 1 ft.  
 Seal Material 1/2 In. Bentonite Pellets  
 j. Gravel pack 20 ft.  
 Pack material 2/20 Monterey Type Sand  
 k. Bottom seal --- ft.  
 Seal material n/a  
 l. Steel Protective Casing With Locking Cover





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# EXPLORATORY BORING LOG

PROJECT NAME: Shell Oil Company  
Dublin, CA  
PROJECT NUMBER: 1826G

BORING NO. MW-4  
DATE DRILLED: 29-Apr-88  
LOGGED BY: B. Von Thaden

DEPTH (ft.)	SAMPLE No	BLOWS/FOOT 140 ft/lbs.	UNIFIED SOIL CLASSIFICATION	SOIL DESCRIPTION	WATER LEVEL	OYA READING ppm
1			CL	SILTY CLAY - grey brown, ~ 40% silt, trace fine sand, stiff, low plasticity, damp, slight product odor.		
2						
3						
4						
5	SDC-1016	15				22
6						
7						
8			OL	SILTY CLAY - very dark gray, low to medium plasticity, stiff, minor roots, damp to moist, strong product odor.		
9						
10	SDC-1017	15				62
11				Static Water Level Measured 9-May-88 At 10.88 Feet.	▼	
12						
13						
14				- grades to dark grayish brown (2.5YR, 4/2), slight mottling, medium plasticity, stiff, moist to wet, no product odor.		
15	SDC-1018	11				3
16						
17						
18			CL	SILTY CLAY - dark greenish grey (7.5 YR N5) mottled with dark grayish brown (2.5YR 4/2), low to medium plasticity, medium stiff, wet, no product		
19						
20	SDC-1019	5				0
Continued Next Page						



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# EXPLORATORY BORING LOG

PROJECT NAME: Shell Oil Company  
Dublin, CA  
PROJECT NUMBER: 1826G

BORING NO. MW-4  
DATE DRILLED: 29-Apr-88  
LOGGED BY: B. Von Thaden

DEPTH (ft.)	SAMPLE No	BLOWS/FOOT 140 ft./lbs.	UNIFIED SOIL CLASSIFICATION	SOIL DESCRIPTION	WATER LEVEL	OVA READING ppm
21			CL	SILTY CLAY - dark greenish grey (7.5 YR N5) mottled with dark grayish brown (2.5YR 4/2), low to medium plasticity, medium stiff, wet, no product odor.		0
22						
23						
24						
25	SDC- 1020	18				
26				Bottom Of Boring 25.5 Feet		

SUPERVISED AND APPROVED BY: L. D. Parker

C.E.G. No. 1187

# Monitoring Well Detail

PROJECT NUMBER 1826G  
 PROJECT NAME Shell Oil Company-Dublin  
 COUNTY Alameda  
 WELL PERMIT NO. 88082

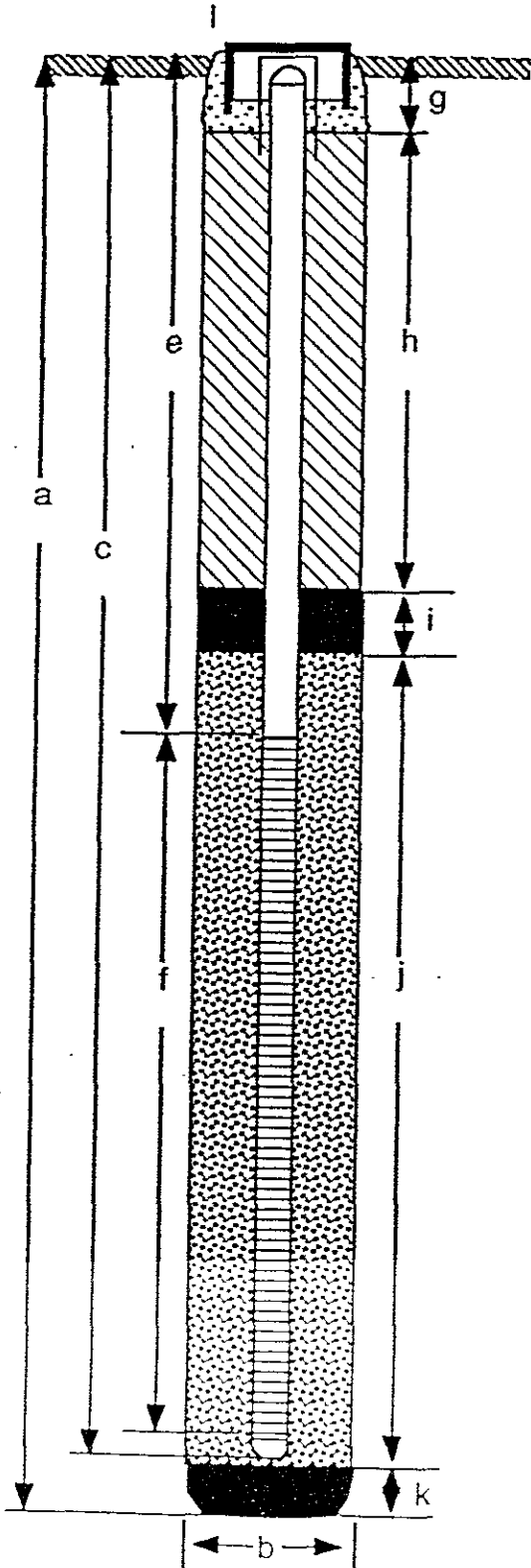
BORING / WELL NO. MW-4  
 TOP OF CASING ELEV. 337.15  
 GROUND SURFACE ELEV. ---  
 DATUM Mean Sea Level

## EXPLORATORY BORING

a. Total Depth 25.5 ft.  
 b. Diameter 10 in.  
 Drilling method Hollow Stem Auger

## WELL CONSTRUCTION

c. Casing length 24.90 ft.  
 Material Schedule 40 PVC  
 d. Diameter 4 in.  
 e. Depth to top perforations 6 ft.  
 f. Perforated length 18 ft.  
 Perforated interval from 6 ft. to 24 ft.  
 Perforation type machine slot  
 Perforation size 0.02 in.  
 g. Surface seal .5 ft.  
 Seal Material Concrete  
 h. Backfill 3 ft.  
 Backfill material Neat Cement Grout  
 i. Seal 1 ft.  
 Seal Material 1/2 In. Bentonite Pellets  
 j. Gravel pack 20 ft.  
 Pack material 2/20 Monterey Type Sand  
 k. Bottom seal --- ft.  
 Seal material n/a  
 l. Steel Protective Casing With Locking Cover



# Monitoring Well Detail

PROJECT NUMBER 1826G Shell Oil  
 PROJECT NAME 7194 Amador Valley Bl.  
 COUNTY Alameda  
 WELL PERMIT NO. 88336

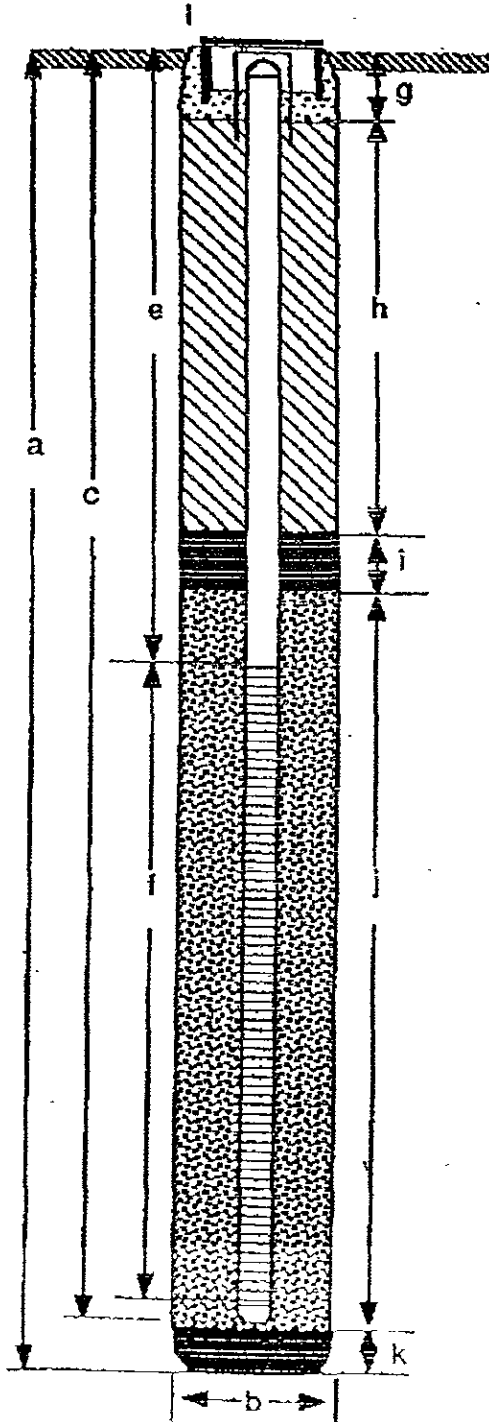
BORING / WELL NO. MW-5  
 TOP OF CASING ELEV. \_\_\_\_\_  
 GROUND SURFACE ELEV. \_\_\_\_\_  
 DATUM Mean Sea Level

## EXPLORATORY BORING

a. Total Depth 46.5 ft.  
 b. Diameter 10 in.  
 Drilling method Hollow Stem Auger

## WELL CONSTRUCTION

c. Casing length 45 ft.  
 Material Schedule 40 PVC  
 d. Diameter 4 in.  
 e. Depth to top perforations 40 ft.  
 f. Perforated length 5 ft.  
 Perforated interval from 45 to 40 ft.  
 Perforation type machine slot  
 Perforation size 0.020 in.  
 g. Surface seal \_\_\_\_\_ ft.  
 Seal Material n/a  
 h. Backfill 37 ft.  
 Backfill material Grout  
 i. Seal 2 ft.  
 Seal Material Bentonite  
 j. Gravel pack 6 ft.  
 Pack material 2/12 Monterey Type Sand  
 k. Bottom seal \_\_\_\_\_ ft.  
 Seal material n/a  
 l. Steel Protective Casing With Locking Cover, padlock







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PROJECT NAME: Shell Oil, Dublin  
7194 Amador Valley Road

page 3 of 3

PROJECT NUMBER: 1826 G

BORING NO. MW-5

DATE DRILLED: 7-19-88

EXPLORATORY BORING LOG

LOGGED BY: SC

DEPTH (ft.)	SAMPLE No	BLOWS/FOOT 140 lb./ft.	UNIFIED SOIL CLASSIFICATION	SOIL DESCRIPTION	WATER LEVEL	OWA READING ppt
43	MW5 -9	32		- as above, color to gray (5Y 5/1), sand slightly coarser, locally over 50% sand		0
44						
45						
46						
47				BOTTOM OF BOREHOLE - 46.5 FEET		
48						

SUPERVISED AND APPROVED BY R.G.J.C.E.G.



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PROJECT NAME: Shell Oil, Dublin  
7194 Amador Valley Bl.

PROJECT NUMBER: 1826G

EXPLORATORY BORING LOG

BORING NO. MW-5

DATE DRILLED: 7-19-88

LOGGED BY: SC

DEPTH (ft.)	SAMPLE No	BLOWS/FOOT 140 ft./lbs.	UNIFIED SOIL CLASSIFICATION	SOIL DESCRIPTION	WATER LEVEL	OVA READING PPM
22			CL			
23						
24						
25						
26	MW5 -5	33	CH	SILTY CLAY, olive gray (5Y 5/2), trace fine sand, trace black organic staining, moderate plasticity, 0 to 5% caliche, hard, moist		1
27						
28						
29						
30						
31	MW5 -6	24		- as above, color to dark gray (5Y 4/1), 10 to 15% fine sand, few rootholes (some stained with caliche), rare root fibers, very stiff, damp to moist		1
32						
33			SP-SC	SAND, dark gray (5Y 4/1), predominantly fine to medium sand, 5 to 10% clay, rare root remains, rare rootholes (stained white), medium dense, moist to wet		
34						
35						
36	MW5 -7	16	CH	SILTY CLAY, dark gray (5Y 4/1), trace fine sand, few rootholes (oxidized to reddish brown), very stiff, moist		0
37						
38						
39						
40						
41	MW5 -8	17		- as above, color to dark greenish gray (5GY 4/1), 10 to 15% clay, very highly plastic, stiff, moist		
42			CH	SANDY CLAY, dark gray (5Y 4/1), 35 to 40% fine sand, moderate to high plasticity, very stiff, very moist		0

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PROJECT NAME: Shell Oil, Dublin  
7194 Amador Valley Bl.

PROJECT NUMBER: 1826 G

page 1 of 3  
25/1W 36P9  
BORING NO. MW-5  
DATE DRILLED: 7-19-88  
LOGGED BY: SC

EXPLORATORY BORING LOG

DEPTH (ft.)	SAMPLE No	BLOWS/FOOT 140 ft/lbs.	UNIFIED SOIL CLASSIFICATION	SOIL DESCRIPTION	WATER LEVEL	DVA READING PPM	
1				FILL: CLAYEY SAND, dark grayish brown (2.5Y 4/2), fine to coarse sand, 30% fine gravel, 20 to 30% clay, rare coarse gravel, dry			
2							
3							
4			OH	SILTY CLAY, black (10YR 2/1), trace fine to coarse sand, trace fine gravel, rare roots, high plasticity, faint product odor, stiff, damp			
5							
6	MW1 -1	13					14
7							
8							
9							
10							
11	MW1 -2	6		- as above, color to vary dark gray (5Y 3/1) with minor black (2.5Y N2/0) mottling, trace fine to medium sand, 10% coarse sand to fine gravel, faint product odor, firm, wet	▽	20	
12							
13							
14							
15							
16	MW1 -3	8	CL	SILTY CLAY, grayish brown (2.5Y 5/2), trace fine to coarse sand, few rootholes (wet), rare roots, low to moderate plasticity, firm, wet		2	
17							
18							
19							
20							
21	MW1 -3	12		- as above, trace fine to coarse sand, few to common rootholes, stiff, wet, abundant water seen in broken sample, water measured at 15 feet prior to sampling		1.5	

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# Monitoring Well Detail

PROJECT NUMBER 1826G  
 PROJECT NAME 7194 AMADOR VALLEY BLVD.  
 COUNTY ALAMEDA  
 WELL PERMIT NO. 88383

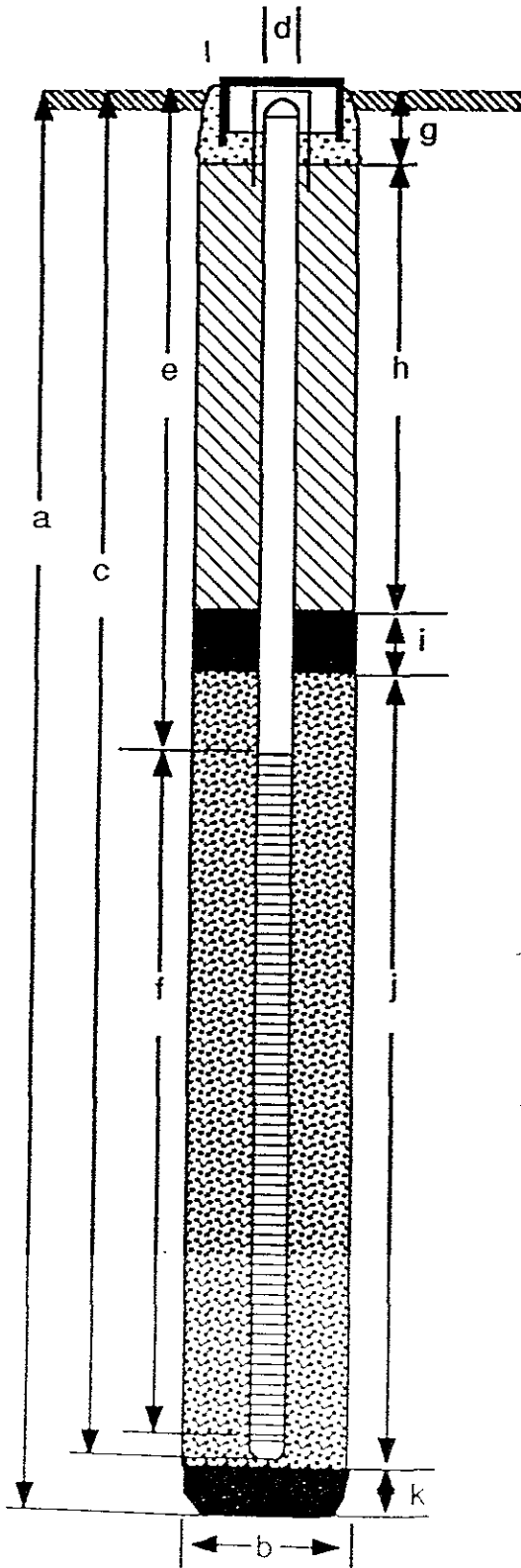
BORING / WELL NO. MW-7  
 TOP OF CASING ELEV. 335.42  
 GROUND SURFACE ELEV. 336.03  
 DATUM LOCAL

## EXPLORATORY BORING

a. Total Depth 17 ft.  
 b. Diameter 10 in.  
 Drilling method Hollow Stem Auger

## WELL CONSTRUCTION

c. Casing length 17 ft.  
 Material Schedule 40 PVC  
 d. Casing diameter 4 in.  
 e. Depth to top perforations 7 ft.  
 f. Perforated length 10 ft.  
 Perforated interval from 7 to 17 ft.  
 Perforation type Machine Slot  
 Perforation size 0.02 in.  
 g. Surface seal 1 ft.  
 Seal Material Concrete  
 h. Backfill 4 ft.  
 Backfill material Cement Grout  
 i. Seal 1 ft.  
 Seal Material Bentonite  
 j. Gravel pack 11 ft.  
 Pack material 2/12 Sand  
 k. Bottom seal 0 ft.  
 Seal material None  
 l. Traffic Rated Vault Box With Locking  
 Device



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# EXPLORATORY BORING LOG

PROJECT NAME: FORMER SHELL STATION BORING NO. MW-7  
7194 AMADOR VALLEY  
BLVD., DUBLIN, CA DATE DRILLED: 8/11-12

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						
4			CH	SILTY CLAY, very dark grayish brown (10YR 3/2), some fine to medium grained sands, no petroleum odor, moderately high plasticity, stiff, moist		
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					▼	0
9	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
10	MW-7-4	14	CL	no petroleum odor, moderate plasticity, stiff, moist to very moist, some root holes contain "free" water		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						

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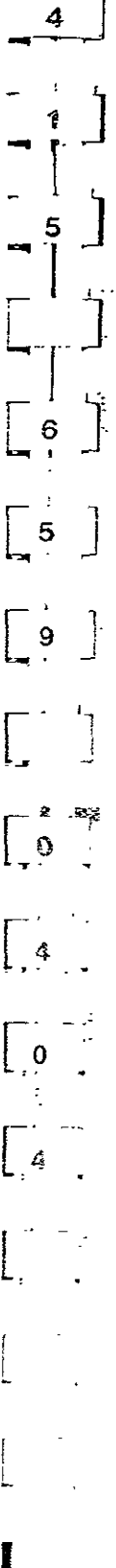
# EXPLORATORY BORING LOG

PROJECT NAME: Former Shell Station  
 7194 Amador Valley Blvd.  
 Dublin, CA  
 PROJECT NUMBER: 1826G

BORING NO. MW-8  
 DATE DRILLED: 2/2  
 LOGGED BY: R.A.G

DEPTH (ft.)	SAMPLE No	BLOWS/FOOT 14.0 ft./lbs.	UNIFIED SOIL CLASSIFICATION	SOIL DESCRIPTION	WATER LEVEL
0 - 1				Asphalt 4", Baserock 8"	
1 - 5			CL	SANDY CLAY to SILTY CLAY, very dark grayish brown (2.5Y 3/2), up to 40% fine grained sands, medium plasticity, very stiff, damp to moist, no petroleum odor	
5 - 6			SP	SAND, gray (2.5Y 6/0 to 5/0), well sorted, fine grained sand, some clay, medium dense, moist, no petroleum odor	
6 - 11	MW-8-1	19	OH	SILTY CLAY, very dark gray to black (2.5Y 3/0 to 2/0), localized areas of fine grained sand, high plasticity, stiff, moist, no petroleum odor	Groundwater level 3/1/89 - 8.28 feet
11 - 14	MW-8-2	11		roots, rootholes and light brown claystone fragments	
14 - 15				increasing sand content	Groundwater encountered = 14 feet
15 - 16	MW-8-3	8		color change to very dark grayish brown to dark grayish brown (2.5Y 4/2 to 3/2), moderate to high plasticity, stiff, moist to very moist	
16 - 17	MW-8-4	9			
17 - 21				Bottom of boring = 17 feet	

Screened interval 6-16'



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# EXPLORATORY BORING LOG

PROJECT NAME: Former Shell Station  
7194 Amador Valley Blvd.  
Dublin, CA  
PROJECT NUMBER: 1826G

BORING NO. MW-9  
DATE DRILLED: 2/22  
LOGGED BY: R.A.G.

DEPTH (ft.)	SAMPLE No	BLOWS/FOOT 14.0 ft/lps.	UNIFIED SOIL CLASSIFICATION	SOIL DESCRIPTION	WATER LEVEL
0 - 1				Asphalt 4", Baserock 8"	
1 - 6	MW-9-1	16	OH	SILTY CLAY, dark grayish brown to very dark grayish brown (2.5Y 4/2 to 3/2), moderate to high plasticity, stiff, moist, no petroleum odor	
6 - 9			CL	SANDY CLAY, gray to dark gray (2.5Y 5/0 to 4/0), up to 30% fine grained sand interbedded with silty clay, medium plasticity, stiff, moist to very moist, no petroleum odor	
9 - 10				Groundwater level 3/1/89- 8.48 feet	
10 - 15	MW-9-2	15	OH	SILTY CLAY, very dark gray to dark olive gray (5Y 3/1 to 3/2), up to 15% fine grained sand, some light brown claystone fragments, root holes, high plasticity, stiff, moist, no petroleum odor	
15 - 16	MW-9-3	11		Groundwater encountered ≈ 15 feet	
16 - 18	MW-9-4	8	SP		

Perforated interval 8'-18'

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# EXPLORATORY BORING LOG

PROJECT NAME: Former Shell Station  
7194 Amador Valley Blvd.  
Dublin, CA  
PROJECT NUMBER: 1826G

BORING NO. MW-10  
DATE DRILLED: 2/22/88  
LOGGED BY: R.A.G.

DEPTH (ft.)	SAMPLE No	BLOWS/FOOT 14.0 ft/lbs.	UNIFIED SOIL CLASSIFICATION	SOIL DESCRIPTION	WATER LEVEL	O.V.A. READING
1				Asphalt 4", Baseroack 8"		
2			CL	SILTY CLAY, dark olive gray (5Y 4/2), some fine grained sand, moderate plasticity, medium stiff to stiff, moist, no petroleum odor		
3						
4			SP	SAND, light olive gray to olive gray (5Y 6/2 to 5/2), fine grained, well sorted sand with some well rounded to subrounded coarse sand up to 1/4" across, loose, moist, strong petroleum odor		
5						
6	MW-10-1	8				
7			OH	SILTY CLAY, dark gray to very dark gray (2.5Y 4/0 to 3/0), high plasticity, stiff, moist, strong petroleum odor		500
8						
9					Groundwater level 3/1/89 - 8.95 feet	
10	MW-10-2	11			Groundwater encountered = 10 feet	350
11				moisture increase to very moist, light brown claystone fragments		
12						
13						
14						
15		9				
16	MW-10-3	9		color change to dark grayish brown (2.5Y 4/2), up to 15% localized fine grained sand, light brown claystone fragments, high plasticity, stiff, moist, no petroleum odor		0
17						
18				Bottom of boring = 17 feet		
19						
20						
21						

perforated interval 7-17

SUPERVISED AND APPROVED BY R.G./C.L.C.





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# EXPLORATORY BORING LOG

PROJECT NAME: Former Shell Station  
7194 Amador Valley Blvd.  
Dublin, CA  
PROJECT NUMBER: 1826G

BORING NO. MW  
DATE DRILLED: 2  
LOGGED BY: RJA

DEPTH (ft.)	SAMPLE No	BLOWS/FOOT 14.0 ft./1bs.	UNIFIED SOIL CLASSIFICATION	SOIL DESCRIPTION	WATER LEVEL
1				Asphalt 4", Baserock 8"	
2			OH	SILTY CLAY, very dark gray (2.5Y 3/0), roots, root holes, high plasticity, stiff, moist, no petroleum odor	
3					
4					
5					
6	MW-11-1	11	C L- S C	SANDY CLAY to CLAYEY SAND, dark gray to gray (2.5Y 4/0 to 5/0), very fine to fine grained sand, medium dense, moist, no petroleum odor	
7			OH	SILTY CLAY, very dark gray (2.5Y 3/0), roots, root holes, up to 15% fine grained sand with some coarse grained sands, high plasticity, stiff, moist, no petroleum odor	
8					
9					
10		12		no sample recovery	Groundwater level 3/1/89 - 8.30 feet
11					
12				light brown claystone fragments isolated, well rounded gravels up to 1/2" across	
13					
14					Groundwater encountered = 14 feet
15		10		color change to dark gray brown to very dark grayish brown (2.5Y 4/2 to 3/2) with some olive gray (5Y 5/2) mottling, localized fine grained sand, moderate to high pasticity, medium stiff to stiff, moist to very moist, free water in many roots holes, no petroleum odor	
16					
17	MW-11-2	8			
18				Bottom of boring = 17 feet	
19					
20					
21					

perforated interval 7-17'

SUPERVISED AND APPROVED BY R G / C I C



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# EXPLORATORY BORING LOG

PROJECT NAME: Former Shell Station  
7194 Amador Valley Blvd.  
Dublin, CA  
PROJECT NUMBER: 1826G

BORING NO. MW-12

DATE DRILLED: 2/2/89

LOGGED BY: R.A.G.

DEPTH (ft.)	SAMPLE No	BLOWS/FOOT 140 ft/lps.	UNIFIED SOIL CLASSIFICATION	SOIL DESCRIPTION	WATER LEVEL
0 - 1				Asphalt 4", Baserock 8"	
1 - 6	MW-12-1	22	CL	SANDY CLAY, dark gray to olive gray (5Y 4/1 to 5/2), up to 40% fine grained sand, moderate plasticity, very stiff, moist to very moist, no petroleum odor	
6 - 7				Groundwater level 3/1/89 - 6.94 feet	6.94
7 - 9			CL-OH	SANDY CLAY and SILTY CLAY, very dark gray to brown (5Y 3/1 to 10YR 5/3), localized sandy and silty clays, fine grained sand, isolated well rounded gravels up to 1/2" across, moderate plasticity, stiff to very stiff, moist, no petroleum odor	
9 - 10	MW-12-2	16	OH	SILTY CLAY, very dark gray to dark olive gray (5Y 3/1 to 3/2), isolated fine grained sands and gravels, light brown claystone fragments, high plasticity, stiff, moist, no petroleum odor	
10 - 13				Groundwater encountered ≈ 13.5 feet	13.5
13 - 15	MW-12-3	7		color change to dark gray to very dark gray (5Y 4/1 to 3/1) with some olive gray (5Y 4/2) mottling, disseminated fine to medium grained sand, moist to very moist, no petroleum odor	
15 - 18		16		becoming very stiff, no sample recovery	
18 - 21				Bottom of boring = 18 feet	

Perforated interval 8-18'

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



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# EXPLORATORY BORING LOG

PROJECT NAME: FORMER SHELL STATION BORING NO. B-1

7194 AMADOR VALLEY

BLVD., DUBLIN, CA

DATE DRILLED: 8/12/8

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	SILTY CLAY, very dark grayish brown (10YR 3/1), some fine to medium grained sands, no petroleum odor, moderate plasticity, stiff, moist		
3			CH	SILTY CLAY, black (10YR 2/1), some fine grained sands, no petroleum odor, moderately high plasticity stiff, moist		
4						
5	B-1-1	12	CL	SANDY CLAY, very dark gray (7YR 3/0), fine grained sands up to 40%, occasional medium to coarse sands, no petroleum odor, moderate plasticity, very stiff, moist		0
6						
7	B-1-2	25				15
8			CL - SC	SANDY CLAY to CLAYEY SAND, very dark gray to gray (7.5YR 3/0 to 7.5YR 6/0), fine to medium grained sands, sand lenses, petroleum odor especially in sands, medium stiff to loose, moist to very moist		60
9	B-1-3	6		Groundwater encountered- 9 ft. ▽		
10	B-1-4	8	CL	SILTY CLAY, dark gray (7.5YR 4/0) with light gray claystone/siltstone fragments, faint petroleum odor, moderate plasticity, stiff, moist		10
11	B-1-5	9		Some roots, no petroleum odor		0
12				Bottom of boring = 11.5 feet		
13						
14						
15						
16						
17						
18						
19						
20						
21						

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



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# EXPLORATORY BORING LOG

PROJECT NAME: FORMER SHELL STATION BORING NO. B-2

7194 AMADOR VALLEY  
BLVD., DUBLIN, CA

DATE DRILLED: 8/1

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, very dark gray (7.5YR 3/0), some fine grained sands, no petroleum odor, moderately high plasticity, stiff, moist		
3						
4						
5		12	CL	SANDY CLAY, dark gray (5Y 4/1), fine grained sands up to 40%, no petroleum odor, moderate plasticity, stiff, moist		
6			SC	CLAYEY SAND, dark gray (5Y 4/1), 60 - 70% fine grained sands, no petroleum odor, loose, moist		
7	B-2-1	15	CL	SILTY CLAY, very dark gray (7.5YR 3/0), some roots, no petroleum odor, moderate plasticity, stiff, moist		0
8	B-2-2	12				0
9			CL	SILTY CLAY, dark gray (7.5YR 4/0), with light gray to white claystone/siltstone fragments, no petroleum odor, moderate plasticity, stiff, moist		
10	B-2-3	11				0
11				Bottom of boring = 10 feet		
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						

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



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# EXPLORATORY BORING LOG

PROJECT NAME: FORMER SHELL STATION BORING NO. B-3  
7194 AMADOR VALLEY  
BLVD., DUBLIN, CA

DATE DRILLED: 8/15/

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 - 7"		
2			CL	SANDY CLAY, dark gray (7.5YR 4/0), some fine grained sands, no petroleum odor, moderate plasticity, stiff, moist		
3			CH	SILTY CLAY, very dark gray, (7.5YR 3/0), no petroleum odor, moderately high plasticity, stiff, moist		
4						
5	B-3-1	11	CL - SC	SILTY CLAY and SANDY CLAY, dark gray to gray (7.5YR 4/0 to 7.5YR 5/0), interbedded, some rounded gravels up to 0.5" across, possible petroleum odor, moderate plasticity, stiff, moist		0
6						
7	B-3-2	13				0
8						
9	B-3-3	22	CL	SILTY CLAY, very dark gray (7.5YR 3/0) with light gray to white claystone/siltstone fragments, some roots, possible petroleum odor, moderate plasticity, stiff to very stiff, moist		0
10	B-3-4	12				0
11				Bottom of boring = 10 feet		
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						

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



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# EXPLORATORY BORING LOG

PROJECT NAME: FORMER SHELL STATION BORING NO. B-4  
7194 AMADOR VALLEY  
BLVD., DUBLIN, CA

DATE DRILLED: 8/15/8

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
1				Asphalt - 3", baserock - 5"		
2			CL	SANDY CLAY, dark gray (7.5YR 4/0), some fine grained sands, no petroleum odor, moderate plasticity, stiff, moist		
3			CH	SILTY CLAY, very dark gray to black (7.5YR 3/0 to 7.5YR 2/0), no petroleum odor, moderately high - plasticity, stiff, moist		
4						
5	B-4-1	12	S C - CL	SANDY CLAY to CLAYEY SAND, very dark gray to dark gray (7.5YR 3/0 and 7.5YR 4/0), interbedded, fine grained sands, roots, no petroleum odor, stiff to loose, moist		0
6						
7	B-4-2	11				0
8	B-4-3	14	CL	SILTY CLAY, very dark gray (7.5YR 3/0), with light gray to white claystone/siltstone fragments, roots, no petroleum odor, moderate plasticity, stiff, moist		0
9						
10	B-4-4	14				0
11				Bottom of boring =10 feet		
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						

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

*LOP*



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# EXPLORATORY BORING LOG

PROJECT NAME: FORMER SHELL STATION BORING NO. B-5  
7194 AMADOR VALLEY  
BLVD., DUBLIN, CA

DATE DRILLED: 8/15/8

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 - 5"		
2			CH	SILTY CLAY, dark gray, (7.5YR 4/0), some fine grained sands, no petroleum odor, moderately high plasticity, stiff, moist		
3			SC - CL	SANDY CLAY and CLAYEY SAND, dark gray (7.5YR 4/0), interbedded, fine grained sands, roots, no petroleum odor, stiff to loose, moist		
4						
5	B-5-1	6	CL	SILTY CLAY, gray to dark gray (7.5YR 5/0 to 7.5YR 4/0), petroleum odor, moderate plasticity, medium stiff, moist		55
6						
7		12	CL	SILTY CLAY, very dark gray to black (7.5YR 3/0 to 7.5YR 2/0), with light gray to white claystone/siltstone fragments, roots, moderate plasticity, strong petroleum odor, stiff, moist		
8	B-5-2	14				>200
9						
10	B-5-3	11				190
11	B-5-4	14				>200
12			CL	SILTY CLAY, mottled very dark gray to dark grayish brown (10YR 3/1 to 10YR 4/2), some angular to subrounded gravels up to 0.5" across, no petroleum odor, moderate plasticity, stiff, moist		
13	B-5-5	16				0
14				Bottom of boring = 13 feet		
15						
16						
17						
18						
19						
20						
21						

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

*RAG*



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# EXPLORATORY BORING LOG

PROJECT NAME: FORMER SHELL STATION BORING NO. B-6

7194 AMADOR VALLEY  
BLVD., DUBLIN, CA

DATE DRILLED: 8/15

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 -6"		
2			SC-CL	SANDY CLAY and CLAYEY SAND, dark gray (7.5YR 4/0), interbedded, some fine grained sands and gravels up to 0.5" across, no petroleum odor, stiff to loose, moist		
3			CL	SANDY CLAY, gray to dark gray (7.5YR 5/0 to 7.5YR 4/0), fine grained sands, petroleum odor, stiff, moist		
4						
5	B-6-1	11				100
6						
7	B-6-2	11	CL	SILTY CLAY, very dark gray to black (7.5YR 3/0 to 7.5YR 2/0), with light gray to white claystone/siltstone fragments, roots, petroleum odor, moderate plasticity, stiff, moist		>200
8	B-6-3	11				275
9						
10	B-6-4	11				160
11	B-6-5	14	CL	SILTY CLAY, mottled very dark gray to dark grayish brown (10YR 3/1 to 10YR 4/2), some subangular gravels up to 0.5" across, possible petroleum odor, moderate plasticity, very stiff, moist		190
12						
13	B-6-6	18				10
14				Bottom of boring =13 feet		
15						
16						
17						
18						
19						
20						
21						

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

*LOP*





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PROJECT NAME: Shell Oil, Dublin  
7194 Amador Valley Blvd.

BORING NO. RW-1

DATE DRILLED: 7/27/89

PROJECT NUMBER: 1826G

LOGGED BY: S.C.

DEPTH (ft.)	SAMPLE No	BLOWS/FOOT	UNIFIED SOIL CLASSIFICATION	SOIL DESCRIPTION	WATER LEVEL	OVM READING ppm
1				FILL: Sandy Gravel, 75% fine to coarse gravel, 25% medium to coarse sand, damp to dry		
2						
3			CH	SILTY CLAY, black (5YR 2.5/1), trace fine sand, trace fine gravel, high plasticity, stiff, damp		
4						
5						
6	R1-1	13				5
7						
8						
9						
10						
11	R1-2	10				20
12				CLAY, black (10YR 2/1), trace of sand, minor roots, high plasticity, stiff, moist		310
13						
14						
15						
16	R1-3	8	CH	Color change to dark grayish brown (2.5Y 4/2) mottled with very dark gray (10YR 3/1), becomes silty, trace fine to coarse sand, rare fine gravel, few to common decayed roots, common rootholes (wet), medium stiff, wet, water noted in holes		0.5
17						
18						
19						
20						
21	R1-3	10		Color change to black (5Y 2.5/1), no gravel, no roots, few rootholes (wet), stiff, wet		0.5

REVIEWED BY R.G./C.E.G.



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PROJECT NAME: Shell Oil, Dublin  
7194 Amador Valley Blvd.

BORING NO. RW-1

DATE DRILLED: 7/27/89

PROJECT NUMBER: 1826G

LOGGED BY: S.C.

DEPTH (ft.)	SAMPLE No	BLOWS/FOOT	UNIFIED SOIL CLASSIFICATION	SOIL DESCRIPTION	WATER LEVEL	OVM READING ppm
-22	R1-5	16	CH	SILTY CLAY, as above		0.5
-23			CL	SANDY CLAY, dark gray (5Y 4/1), 15% fine to coarse sand, rare root fibers, rare root holes, trace black organic staining, low to moderate plasticity, stiff, damp		
-24						
-25	R1-6	19	CL	SANDY CLAY, dark gray (5Y 4/1), 15% fine to coarse sand, rare root fibers, rare root holes, trace black organic staining, low to moderate plasticity, stiff, damp		0.5
-26			CH	SANDY CLAY, dark gray (5Y 4/1) with very slight orange-brown staining, 15% fine sand, becomes 40% fine to coarse sand at shoe, some rootholes, very stiff, wet		
-27						
-28						
-29						
-30						
-31						
-32				Bottom of Boring = 31.5 feet		
-33						
-34						
-35						
-36						
-37						
-38						
-39						
-40						
-41						
-42						

REVIEWED BY R.G./C.E.G.

# Recovery Well Detail

PROJECT NUMBER 1826G Shell Oil  
 PROJECT NAME 7194 Amador Valley Blvd.  
 COUNTY Alameda  
 WELL PERMIT NO. \_\_\_\_\_

BORING / WELL NO. RW-1  
 TOP OF CASING ELEV. \_\_\_\_\_  
 GROUND SURFACE ELEV. \_\_\_\_\_  
 DATUM Mean Sea Level

## EXPLORATORY BORING

a. Total Depth 31.5 ft.  
 b. Diameter 10 in.  
 Drilling method Hollow Stem Auger

## WELL CONSTRUCTION

c. Casing length 30 ft.  
 Material Schedule 40 PVC  
 d. Diameter 6 in.  
 e. Depth to top perforations 10 ft.  
 f. Perforated length 20 ft.  
 Perforated interval from 30 to 10 ft.  
 Perforation type Machine Slot  
 Perforation size 0.020 in.  
 g. Surface seal — ft.  
 Seal Material n/a  
 h. Backfill 8 ft.  
 Backfill material Grout  
 i. Seal 1 ft.  
 Seal Material Bentonite  
 j. Gravel pack 21 ft.  
 Pack material 2/12 Monterey Type Sand  
 k. \_\_\_\_\_

