



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

REMEDIAL ACTION COMPLETION CERTIFICATION

StID 1054 - 7575 Dublin Blvd, Dublin, CA
(3-10K gallon gasoline tanks removed in May 1989)

May 6, 1998

Mr. Ed Koberstein
Montgomery Ward
1331 S Harbor Blvd
Fullerton, CA 92632

Dear Mr. Koberstein:

This letter confirms the completion of site investigation and remedial 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, no further action related to the underground tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, Section 2721(e) of the California Code of Regulations.

Please contact our office if you have any questions regarding this matter.

Sincerely,

Mee Ling Tung, Director
Mee Ling Tung, Director

cc: Richard Pantages, Chief of Division of Environmental Protection
Chuck Headlee, RWQCB
Dave Deaner, SWRCB
William McCammon, Alameda County Fire Department (QIC Code 41401)
files-ec (mtgmry-7)

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY
DAVID J. KEARS, Agency Director

ENVIRONMENTAL HEALTH SERVICES

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

StID 1054

May 6, 1998

Mr. Ed Koberstein
Montgomery Ward
1331 S Harbor Blvd
Fullerton, CA 92632

Re: **Fuel Leak Site Case Closure for Montgomery Wards, 7575 Dublin Blvd, Dublin CA**

Dear Mr. Koberstein:

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

SITE INVESTIGATION AND CLEANUP SUMMARY

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

- o up to 6,600 ppb TPH as gasoline and 6.8 ppb benzene exists in groundwater beneath the site; and,
- o a site safety plan is required in the event of trenching/excavation in the vicinity of the former underground storage tanks.

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

Eva Chu
Hazardous Materials Specialist

enclosures:

1. Case Closure Letter
2. Case Closure Summary

c: Dennis Carrington
City of Dublin
P.O. Box 2340
Dublin, CA 94568

files (mtgmry-8)

CLOSURE SUMMARY
 CASE CLOSURE SUMMARY \$7,007.87 PAID 1/19
 Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

Date: August 20, 1997

Agency name: Alameda County-HazMat Address: 1131 Harbor Bay Pkwy
 City/State/Zip: Alameda, CA 94502 Phone: (510) 567-6700
 Responsible staff person: Eva Chu Title: Hazardous Materials Spec.

II. CASE INFORMATION

Site facility name: Montgomery Wards
 Site facility address: 6900 Amador Plaza Road, Dublin, CA
 RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 1054
 URF filing date: SWEEPS No: N/A

Responsible Parties: Addresses: Phone Numbers:

Mr. Ed Koberstein 1331 S. Harbor Blvd
 Montgomery Ward Fullerton, CA 92632

<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	5/18-18/89
2	10,000	"	"	"
3	10,000	"	"	"

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: Leaking UST
 Site characterization complete? YES
 Date approved by oversight agency: 2/19/97
 Monitoring Wells installed? Yes Number: 12
 Proper screened interval? Yes
 Highest GW depth below ground surface: 9.40' Lowest depth: 12.69' in B-10
 Flow direction: East, southeast
 Most sensitive current use: Commercial
 Are drinking water wells affected? No Aquifer name: Dublin Subbasin
 Is surface water affected? No Nearest affected SW name: None
 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</u> <u>(include units)</u>	<u>Action (Treatment</u> <u>or Disposal w/destination)</u>	<u>Date</u>
Tank	3 USTs	Unknown	May 1989
Piping			
Free Product	1,350 gal.	Treated through Carbon and discharged to sanitary sewer system	
Soil	375 cy pea gravel,	aerated and disposed at BFI in Livermore	
Groundwater	~3.1 mil gal.	treated and disposed to sewer	2/92 to 10/95

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

<u>Contaminant</u>	<u>Soil (ppm)</u>		<u>Water (ppb)</u>	
	<u>Before¹</u>	<u>After²</u>	<u>Before³</u>	<u>After⁴</u>
TPH (Gas)	2,180	14.3	P F R	6,600
Benzene	2.0	ND	R O	6.8
Toluene	6.2	0.553	E D	0.79
Ethylbenzene	7.0	ND	U	760
Xylenes	37	1.580	E C	28
MTBE	NA	NA	T	<300
Heavy metals Lead				2,600
Other				7.9

- NOTE: 1 soil collected from CPT, boring SBCP-1 at 13' bgs, July 1994
 2 no overexcavation was performed, but these are maximum soil concentrations detected in soil collected from the capillary fringe (~9.5' bgs) from borings advanced near and around the former tank pit. Higher levels were detected below groundwater elevation (up to 290 ppm TPHg and 2.0 ppm benzene at ~13' bgs).
 3 2" to 3" of free product encountered in boring B-12 and B-13 in Jan 1989
 4 groundwater collected from monitoring wells, Oct 1996

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: **Site safety plan is required in the event of trenching/excavation in the vicinity of the former underground storage tanks.**
 Should corrective action be reviewed if land use changes? **YES**
 Monitoring wells Decommissioned: **No**
 Number Decommissioned: **0** Number Retained: **12**
 List enforcement actions taken: **None**
 List enforcement actions rescinded: **NA**

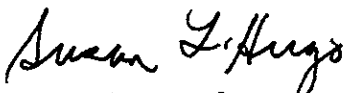
V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Eva Chu Title: Haz Mat Specialist

Signature:  Date: 10/10/97

Reviewed by

Name: Susan Hugo Title: Sr. Haz Mat Specialist

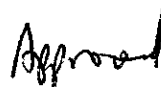
Signature:  Date: 9/30/97

Name: Thomas Peacock Title: Supervisor

Signature:  Date: 10-9-97

VI. RWQCB NOTIFICATION

Date Submitted to RB: 10/10/97

RB Response: 

RWQCB Staff Name: Kevin Graves

Title: AWRCE

Signature: 

Date: 10/22/97

VII. ADDITIONAL COMMENTS, DATA, ETC.

The site is currently part of the Montgomery Ward Department Store and is used as a tire, battery, accessory, and auto maintenance shop. Previously, the site operated a gasoline service station which consisted of three 10,000 gallon gasoline USTs. In late November 1988 it was determined that the unleaded UST was leaking. Immediately the operation of all the USTs was stopped and the dispensing pumps removed.

To ascertain the extent of the fuel release from the leaking UST, eight soil borings (5 through 10, 12, and 13) were installed in January 1989 as observation wells capable of being modified for free product or vapor extraction (wells were labeled B5 through B10, B12, and B13). Borings 5, 6, 8, and 9 were installed in the pea-gravel backfill of the tank pit.. Soil and liquid samples were collected from the borings. TPH concentrations in soil ranged from ND to 2,180 ppm; benzene concentrations ranged from 0.18 to 2.0 ppm. Borings 12 and 13 contained 2" to 3" of free product. Free product removal began immediately. Approximately 1,350 gallons of product was recovered in January 1989. (See Figs 1, 2 and Table 1)

In May 1989 the three USTs and fuel islands were removed, destroying wells B6, B7, B8, B9, and B13. Two replacement wells, B15 and B16 were installed in August 1989 (see Fig 3). The pit excavation measured 30'x40'x12' deep. The sidewalls were dense, stiff clay. Free product was evident in the bottom of the pit. The pea gravel removed was aerated and subsequently disposed of offsite.

A groundwater extraction system was installed in February 1990 using the well B12. Groundwater was extracted at a rate of 8 to 12 gallons per minute (gpm) and filtered through two 2,500 lb activated carbon canisters connected in series, and discharged to the sanitary sewer system. In March and June 1991 a draw-down pump test was performed to evaluate the ability of the extraction system to capture the contaminated groundwater. The results suggested that pumping groundwater at a rate of 8 gpm from well B12 would be sufficient to contain the groundwater beneath the site. Changes were made to improve the extraction system, consisting of the installation of an oil/water separator, product and surge tanks, transfer pump, and filter system. The extraction system was completed in February 1992 and operated until October 1995. Groundwater was actually extracted at an average of 3.37 gallons per minute. By October 1995 the benzene concentrations had decreased and stabilized at less than 10 ppb. Approximately 3.1 million gallons of groundwater was extracted, treated and disposed. An oxygen releasing compound (ORC) was installed in wells B-12 and B-5 after discontinuation of the extraction system.

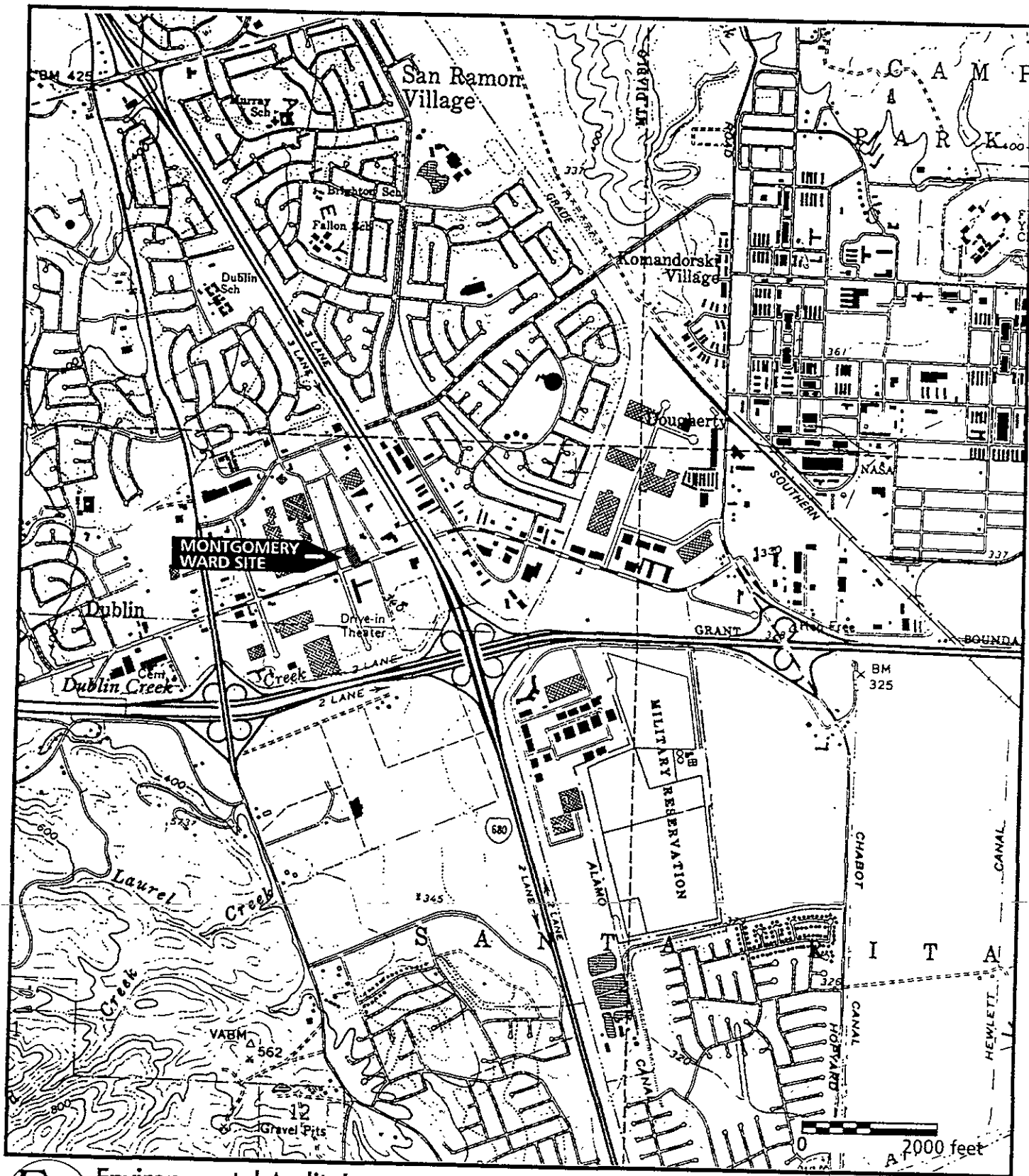
Quarterly groundwater monitoring began in April 1992. In May 1993 additional offsite monitoring wells, MW-100 through MW-102, and 8 hydropunches (HP-1 through HP-8) were advanced to further delineate the extent of soil and groundwater contamination (see Fig 3, Table 2). And in July 1994 Cone Penetrometer Tests (SBCP-1 through SBCP-4), soil and vapor sampling (SV-1 through SV-3), and "grab" groundwater sampling (HPCP-1) were conducted (see Fig 4, Table 3). Data from the various phases of subsurface investigations, combined with a separate investigation performed at a downgradient site, Enea Plaza, defined the groundwater contaminant plume in the northerly, southerly, and easterly directions.

In June 1995 ten borings (GP-1 through GP-10) were advanced near the former tank pit, using direct push technology, to collect additional soil samples. Soil analytical results suggested that additional soil excavation was not necessary at the site (see Fig 4, Table 4). A risk based corrective action analysis (RBCA) was completed in order to determine clean-up levels for BTEX and TPHg in groundwater. It was determined that TPHg and benzene concentrations in groundwater did not pose a risk in excess of 1×10^{-5} due to groundwater volatilization to outdoor and indoor air. (See Tables 5, 6)

Data collected from four years of groundwater monitoring/sampling suggest groundwater extraction (along with natural bioattenuation) has reduced hydrocarbon contamination to levels where they do not pose a risk to human health or the environment. (See Table 7)

In summary, case closure is recommended because:

- the leak and ongoing sources have been removed;
- the site has been adequately characterized;
- the dissolved plume is not migrating;
- 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.



Environmental Audit, Inc.

LOCATION MAP
Montgomery Ward Auto Service Center
Dublin, California

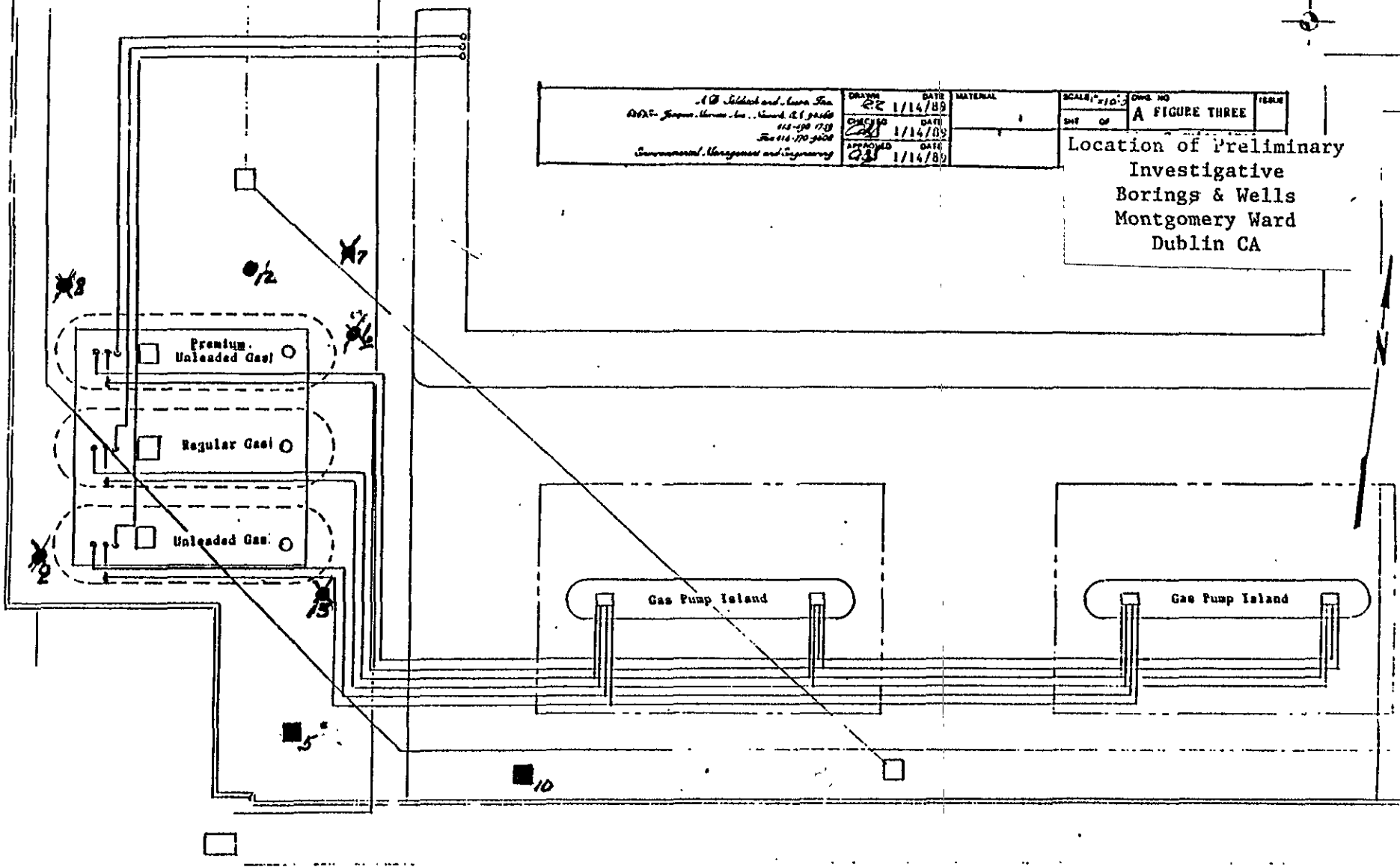
SOURCE: USGS TOPOGRAPHIC 7.5 MINUTE SERIES
 DUBLIN, CALIFORNIA QUADRANGLE

Project No. 1233
 KA1233\1233-L.M1.CDR

Figure 1

J.C. Seldner and Assoc. Inc. 2001-10000 ... Tel: 415-770-7000 Environmental, Management and Engineering		DRAWN EC	DATE 1/14/89	MATERIAL	SCALE: 1"=10'	DWG. NO. A FIGURE THREE	SHEET OF
		CHECKED [Signature]	DATE 1/14/89				
		APPROVED [Signature]	DATE 1/14/89				

Location of Preliminary
 Investigative
 Borings & Wells
 Montgomery Ward
 Dublin CA



- Vapor/Product Removal Well
- Monitoring Well
- ✕ Abandoned

Dublin Blvd.

FIG 2

Table 1
 Analytical Results of Samples Gathered
 Montgomery Ward, Dublin CA

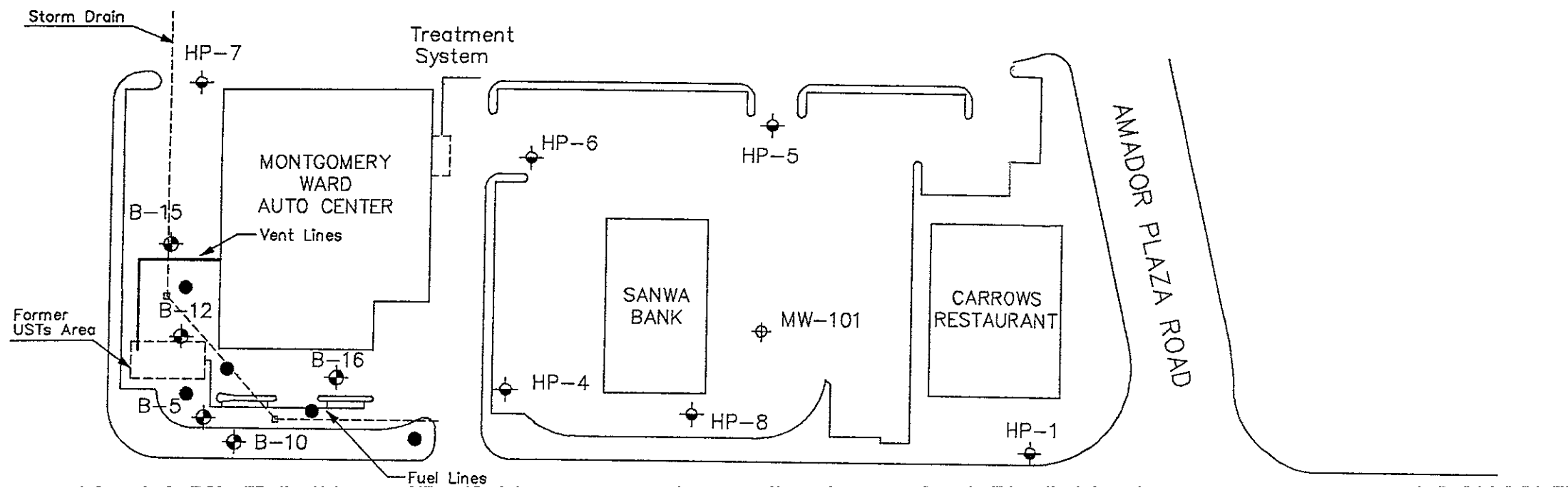
EPA Methods 8015, 8020 - mg/kg(ppm)

Sample Date	Sample I.D.No	Source	Matrix	TPH	Benzene	Toluene	Ethyl Benzene	Xylene	Lead
<u>Sump</u>									
5/18	1188002R SW-4	Sump	Soil	22	3.8	5.8	1.9	4.0	
5/24	1188002R SW-1	Sump	Water	88	14	13	1.6	2.3	
5/30	1188002R SW-1	Sump	Water	28	11	1.1	0.74	1.2	
6/9	1188002R SW	Sump	Water	120	16	7	4	1.5	
<u>Pit Walls</u>									
5/18	1188002R NW-3	Pit	Soil	5.1	<0.05	0.06	<0.05	0.06	
5/18	1188002R SE-2	Pit	Soil	18	0.22	1.2	0.92	2.9	
<u>Tanks</u>									
5/18	1188002R 6K	Tank	Water	196	20	15	15	13	
5/18	1188002R 20K	Tank	Water	48	11	12	0.22	2.0	
<u>MW-5</u>									
6/9	1188002R 5W	5	Water	52	6.5	7.5	2.5	2.0	
<u>MW-10</u>									
2/8/9	1188002R-10								
	10-5-1	10	Soil	0.5					
	10-10-2	10	Soil	3.3	1.1	1.2	<0.1	0.5	
	10-15-3	10	Soil	8.0	0.9	0.8	<0.1	0.3	
	10-20-4	10	Soil	1.6					
5/24	1188002R STRW	10	Water	95	14	14	1.6	2.4	
6/6	12188002R 10W	10	Water	105	20	16	2.0	2.8	
<u>MW-12</u>									
12/2	1188002R-12-1-2	12	Soil	0.7					
	12-2-2	12	Soil	87					
	12-4-2	12	Soil	4.5					
	12-5-2	12	Soil	<0.5	<0.1	<0.1	<0.1	<0.1	
12/5	1188002R-12W	12	Water**	95%					
5/18/9	1188002R DOIW	12	Water	478	55	103	23	50	
5/30	1188002R N-1	12	Water	313	46	58	19	32	
6/6	1188002R 12W	12	Water	570	38	70	27	17	
<u>MW-13</u>									
12/2	1188002R 13X	13	Soil	2180	0.18	0.30	0.06	0.09	
12/5	13W	13	Water	118	13.9	18.3	2.8	4.1	
2/13/9	13W	13	Water	376	35	48	10	12	

**Free Product 2" A.T.D.

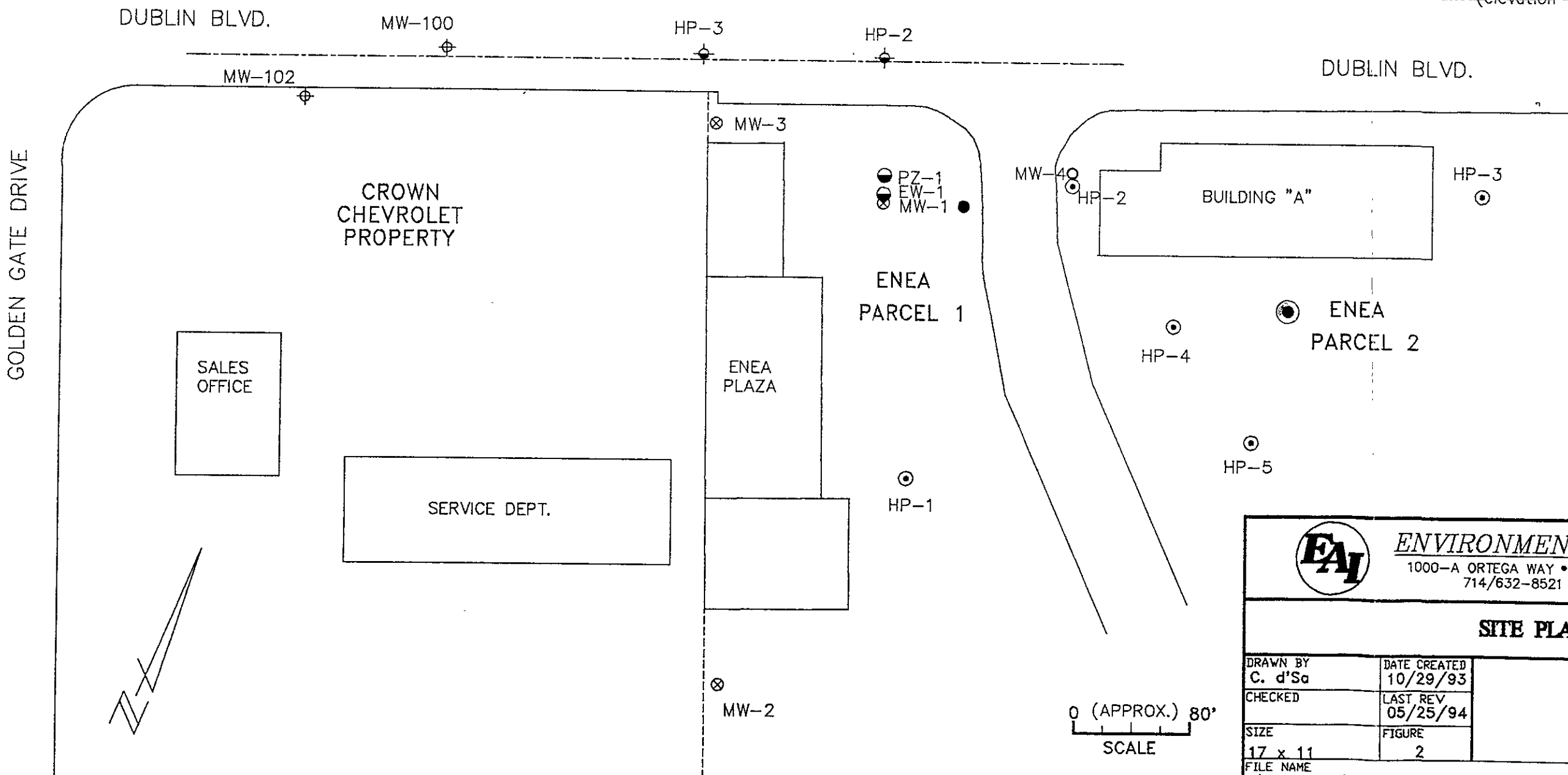
See Exhibit VI for Well Construction Details

• Unpurged



- EXPLANATION:**
- ⊕ ADS GROUND WATER MONITORING WELL
 - ⊕ EAI GROUND WATER MONITORING WELL
 - ⊕ EAI HYDROPUNCH LOCATION
 - ⊗ HLA GROUND WATER MONITORING WELL
 - ⊙ EPIGENE HYDROPUNCH
 - EPIGENE GROUND WATER MONITORING WELL
 - CYPRESS GROUND WATER MONITORING WELL
 - PROPOSED CPT LOCATION
 - ⊙ PROPOSED CPT WATER SAMPLING LOCATION

• All wells surveyed to the city of Dublin Benchmark No DUB-680 (elevation = 331.60 feet MSL)



0 (APPROX.) 80'
SCALE

EAI ENVIRONMENTAL AUDIT, INC.
 1000-A ORTEGA WAY • PLACENTIA, CA 92670-7125
 714/632-8521 • FAX: 714/632-6754

SITE PLAN

DRAWN BY C. d'Sa	DATE CREATED 10/29/93
CHECKED	LAST REV 05/25/94
SIZE 17 x 11	FIGURE 2
FILE NAME I:\MONTGOM\08\14308002	

**MONTGOMERY WARD
 AUTO SERVICE CENTER
 7575 DUBLIN BOULEVARD
 DUBLIN, CALIFORNIA**

TABLE 2

**ANALYTICAL TESTING RESULTS
FOR GROUND WATER SAMPLES**

Montgomery Ward Site

Parts per billion (ppb)

Page 3 of 3

Well MW-102

Compounds	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	Lead
05-13-93	3600	17	ND	130	63	NA
07-14-93	1500	13	ND	64	4.9	ND
10-14-93	24000	9.6	5.2	60	60	ND
01-13-94	2000	22	ND	26	55	ND
04-04-94	2100	16	2.5	15	35	ND

5-13-93

Hydropunch ID	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	Lead
HP-1	ND	ND	ND	ND	ND	ND
HP-2	ND	ND	ND	ND	ND	ND
HP-3	5700	12	ND	180	50	ND
HP-4	680	6.6	ND	4.1	15	ND
HP-5	ND	ND	ND	ND	ND	ND
HP-6	ND	ND	ND	ND	ND	ND
HP-7	ND	ND	ND	ND	ND	ND
HP-8	ND	ND	ND	ND	ND	ND

ND Not Detected
NA Not Analyzed

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MONTGOMERY
WARD
AUTO CENTER

FORMER LOCATION OF USTs

B-15
STORM DRAIN
FIRE MAIN

B-12
SV1
GP-4
SBCP4

SBCP3
SV2
GP-3
SBCP1
SBCP2

GP-5
GP-9
GP-10
GP-1

SV3
GP-2
GP-8
GP-7
GP-6

B-16
CONCRETE PAD

B-10

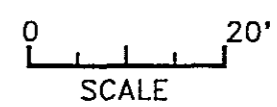
SIDEWALK

SIDEWALK

DUBLIN BLVD.

EXPLANATION:

- ADS GROUND WATER MONITORING WELL LOCATION
- EAI CPT LOCATION
- STRATAPROBE BORING LOCATION



ENVIRONMENTAL AUDIT, INC.
1000-A ORTEGA WAY • PLACENTIA, CA 92670-7125
714/632-8521 • FAX: 714/632-6754

SITE PLAN

DRAWN BY M.C.	DATE CREATED 04/18/95
CHECKED	LAST REV 08/22/95
SIZE 17 x 11	FIGURE # 4
FILE NAME I:\MONTGOM\08\14308011	

**MONTGOMERY WARD
AUTO SERVICE CENTER
7575 DUBLIN BOULEVARD
DUBLIN, CALIFORNIA**

TABLE 3

ANALYTICAL TESTING RESULTS

**Montgomery Ward Auto Service Center
and Enea Properties Sites
Dublin, California**

Parts per Million (ppm)

Sample ID	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes
SOIL SAMPLES					
SBCP-1 @ 9-9.5'	ND	ND	ND	ND	ND
SBCP-1 @ 13-13.5'	290	2.0	6.2	7.0	37
SBCP-2 @ 13-13.5'	230	1.7	1.1	4.4	23
SBCP-2 @ 15-15.5'	5.3	0.065	0.030	0.19	0.41
SBCP-3 @ 13-13.5'	71	0.68	4.8	1.7	8.9
SBCP-3 @ 15-15.5'	1.9	0.012	0.037	0.027	0.11
SBCP-4 @ 12'	81	0.29	0.20	0.91	4.3
GROUND WATER SAMPLES HPCP-1					
07/21/94	ND	ND	ND	ND	ND
07/22/94	ND	ND	ND	ND	ND

ND = Not Detected.

CHRIS-1233-RJT

TABLE 34

CONCENTRATIONS OF TPH-G AND BTEX IN SOIL SAMPLES

(in parts per million)

Page 1 of 1

Sample ID #	TPH-G	Benzene	Toluene	Ethylbenzene	Total Xylenes
GP-1 @ 9.5-10'	ND	ND	0.439	ND	0.607
GP-1 @ 12.5-13'	ND	ND	0.156	1.040	5.410
GP-1 @ 15.5-16'	ND	ND	ND	ND	0.162
GP-2 @ 9.5-10'	ND	ND	0.435	ND	0.579
GP-2 @ 12.5-13'	10.5	ND	0.111	ND	1.040
GP-2 @ 15.5-16'	ND	ND	0.389	ND	0.578
GP-3 @ 9.5-10'	ND	ND	0.482	ND	0.629
GP-3 @ 12.5-13'	36.7	ND	0.713	ND	1.350
GP-3 @ 15.5-16'	11.5	ND	0.978	ND	1.250
GP-4 @ 9.5-10'	14.3	ND	0.444	ND	0.608
GP-4 @ 12.5-13'	21.8	ND	1.400	0.480	1.970
GP-4 @ 15.5-16'	ND	ND	0.456	ND	0.559
GP-5 @ 9.5-10'	ND	ND	0.437	ND	0.562
GP-5 @ 12.5-13'	10.6	ND	0.734	ND	1.050
GP-5 @ 15.5-16'	ND	ND	0.663	ND	0.923
GP-6 @ 9.5-10'	ND	ND	0.445	ND	0.612
GP-6 @ 12.5-13'	19.8	ND	0.079	0.492	1.980
GP-6 @ 15.5-16'	18.0	ND	0.392	ND	0.617
GP-7 @ 9.5-10'	ND	ND	0.406	0.423	1.580
GP-7 @ 12.5-13'	35.5	ND	0.837	0.681	4.260
GP-7 @ 15.5-16'	12.9	ND	0.428	0.338	1.450
GP-8 @ 9.5-10'	ND	ND	0.553	ND	0.876
GP-8 @ 12.5-13'	15.6	ND	0.460	0.236	1.660
GP-8 @ 15.5-16'	ND	ND	0.397	ND	0.619
GP-9 @ 9.5-10'	ND	ND	0.389	ND	0.616
GP-9 @ 12.5-13'	44.9	ND	0.962	ND	1.790
GP-9 @ 15.5-16'	ND	ND	0.444	ND	0.722
GP-10 @ 9.5-10'	ND	ND	0.442	ND	0.659

(1) ND = Not Detected above detection limits. Detection limits: TPH-G=10 ppm and BTEX=0.005 ppm.

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TABLE 5

SUMMARY OF OUTDOOR
AND INDOOR (ENCLOSED SPACE) AIR
HEALTH RISK ASSESSMENT

RISK	1×10^{-6}		1×10^{-5}	
	TPH	BENZENE	TPH	BENZENE
	$\mu\text{g/l}$	$\mu\text{g/l}$	$\mu\text{g/l}$	$\mu\text{g/l}$
OUTDOOR AIR	35,216	2,064	352,164	20,644
INDOOR AIR	1,113	65.3	11,132	653.3

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Maximum allowable TPH / Benzene concentrations
in groundwater

TABLE 56

**COMPARISON OF CALCULATED MAXIMUM GROUND WATER CONCENTRATIONS BASED ON EMISSIONS TO OUTDOOR AIR, EMISSIONS INTO ENCLOSED SPACE, AND RISK BASED CLEAN UP LEVELS TO 1994
GROUND WATER MONITORING DATA FOR MONTGOMERY WARD AND ENEA PROPERTIES SITES**

Ground Water Monitoring Data

	TPH (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)
Montgomery Ward site including off-site wells (MW-100, MW-101 and MW-102)	18 ①	0.990 ①	0.340	1.30	2.40
Enea Properties wells	7	0.0277	0.030	0.260	0.140

Calculated Values

Maximum ground water concentrations based on emissions to outdoor air	39.2	2.08	2,426	5,813	46,697
Maximum ground water concentrations based on emissions into enclosed space	12.4	0.727	76.7	183	1,476
RBCL	21.9 to 57	0.098	20	10	200

① Data from well B-10 based on ground water samples obtained on January 13, 1994. Although these concentrations are higher than the maximum allowable concentrations for TPH and benzene in ground water based on emissions to enclosed space, these data are not representative for the entire Montgomery Ward site (see Section 6.2 for detailed explanation)

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TABLE 7

ANALYTICAL TESTING RESULTS
 Montgomery Ward Auto Service Center
 ENEA Properties
 Dublin, California
 Parts per billion (ppb)

Compounds	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	Lead	MTBE
Well B-5							
04-16-92	4400	670	160	280	320	<5	NA
07-24-92	31000	5400	2600	2200	5800	<5	NA
10-22-92	9100	1100	190	520	740	<5	NA
01-15-93	2300	530	160	300	470	7.9	NA
04-15-93	4900	600	160	470	390	<5	NA
07-14-93	8800	590	210	840	1100	9.9	NA
10-14-93	4500	530	46	490	350	<20	NA
01-13-94	120	15	1.9	12	11	<20	NA
04-04-94	5700	450	39	350	400	<20	NA
07-05-94	2200	69	13	150	95	<20	NA
10-03-94	4700	190	38	510	570	<50	NA
01-18-95	2200	53	27	120	280	<2	NA
04-21-95	5800	90	74	300	910	4.0	NA
07-28-95	2600	57	26	190	570	2.5	<100
10-20-95	3400	27	15	210	530	4.2	<50
01-12-96	2100	37	12	130	320	7.5	<250
04-11-96	5700	120	41	450	1200	<2	290
07-17-96	2400	55	2.8	170	99	<2	NA
10-24-96	420	6.8	0.79	49	3.8	7.9	<30
Well B-10							
04-16-92	7300	1400	640	880	1100	<5	NA
07-24-92	27000	3800	1600	2000	4000	<5	NA
10-22-92	16000	2300	340	1100	1200	<5	NA
01-15-93	10000	1400	310	730	1100	13	NA
04-15-93	8100	580	270	810	580	19	NA
07-14-93	6400	840	120	750	800	7.1	NA
10-14-93	100000	720	120	930	1100	<20	NA
01-13-94	18000	990	180	1300	2400	<20	NA
04-04-94	12000	370	96	900	1800	<20	NA
07-05-94	7800	170	50	550	810	<20	NA
10-03-94	6300	120	33	480	630	<50	NA
01-18-95	3300	38	28	160	450	2.9	NA
04-21-95	4200	39	8.6	220	310	<2	NA
07-28-95	2900	22	4.3	140	330	2.0	55
10-20-95	1900	3.9	1.5	74	170	<2	13
01-12-96	3400	24	5.4	130	260	4.5	94
04-11-96	2200	3.6	<1	180	84	<2	<100
07-17-96	2200	2.5	0.78	180	86	4.2	NA
10-24-96	6600	<5	<5	760	28	2.3	<300
Well B-12							
04-16-92	12000	1300	1100	510	1200	<5	NA
07-24-92	12000	1000	630	520	1000	<5	NA

cont. TABLE 87

ANALYTICAL TESTING RESULTS
 Montgomery Ward Auto Service Center
 ENEA Properties
 Dublin, California
 Parts per billion (ppb)

Page 2 of 5

Compounds	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	Lead	MTBE
10-22-92	11000	370	230	400	940	<5	NA
01-15-93	120	2.8	<0.5	1.6	3.6	11	NA
04-15-93	7100	730	240	350	570	<5	NA
07-14-93	4500	540	97	380	610	<5	NA
10-14-93	11000	710	170	650	1600	<20	NA
01-13-94	6000	330	100	330	620	24	NA
04-04-94	8700	350	58	350	660	<20	NA
07-05-94	8800	250	340	370	920	<20	NA
10-03-94	1300	63	42	110	140	<50	NA
01-18-95	5000	93	65	190	510	<2	NA
04-21-95	14000	190	320	420	1500	<2	NA
07-28-95	10000	110	120	490	1500	<2	<100
10-20-95	1400	16	13	81	180	<2	<10
01-12-96	2900	23	3.6	130	240	7.0	<50
04-11-96	2600	23	12	130	200	16	82
07-17-96	7100	53	20	450	770	5.2	NA
10-24-96	520	<0.5	0.56	11	46	<2	<30

Well B-15

04-16-92	65	4.4	2.4	6.1	2.8	<5	NA
07-24-92	<50	3.6	1.5	3.1	1.6	<5	NA
10-22-92	<50	1.7	0.89	0.78	0.88	<5	NA
01-15-93	<50	<0.5	<0.5	<0.5	<0.5	13	NA
04-15-93	<50	2.8	<0.5	3.0	1.5	<5	NA
07-14-93	<50	<0.5	<0.5	0.57	0.74	7.8	NA
10-14-93	<50	0.96	2.6	1.3	3.6	25	NA
01-13-94	<50	<0.5	0.92	0.70	2.0	<20	NA
04-04-94	<50	<0.5	<0.5	0.56	1.0	<20	NA
07-05-94	<50	<0.5	<0.5	<0.5	<0.5	<20	NA
10-03-94	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
01-18-95	<50	<0.5	0.69	<0.5	2.2	<2	NA
04-21-95	<50	<0.5	1.0	<0.5	2.5	<2	NA
07-28-95	<50	<0.5	<0.5	<0.5	<0.5	<2	<10
10-20-95	<50	<0.5	<0.5	<0.5	<0.5	<2	<10
01-12-96	NS	NS	NS	NS	NS	NS	NS
04-11-96	NS	NS	NS	NS	NS	NS	NS
07-17-96	NS	NS	NS	NS	NS	NS	NS
10-24-96	NS	NS	NS	NS	NS	NS	NS

Well B-16

04-16-92	1300	390	1.7	35	9.3	5.7*	NA
07-24-92	1600	120	5.7	120	410	<5	NA
10-22-92	1000	76	<0.5	55	130	<5	NA
01-15-93	160	6.5	0.86	2.3	2.6	5.5	NA
04-15-93	300	65	<0.5	13	2.0	13*	NA
07-14-93	170	5.9	<0.5	4.6	12	<5	NA
10-14-93	390	11	2.4	16	45	21	NA

Cont. TABLE 87

ANALYTICAL TESTING RESULTS

Montgomery Ward Auto Service Center

ENEA Properties

Dublin, California

Parts per billion (ppb)

Page 3 of 5

Compounds	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	Lead	MTBE
01-13-94	350	8.7	0.62	25	68	<20	NA
04-04-94	550	8.7	<0.5	35	81	<20	NA
07-05-94	850	14	5.6	52	130	<20	NA
10-03-94	210	5.3	<0.5	26	5.8	<50	NA
01-18-95	<50	<0.5	0.94	<0.5	1.3	2.7	NA
04-21-95	<50	<0.5	0.66	<0.5	<0.5	<2	NA
07-28-95	57	0.71	<0.5	1.6	2.6	<2	<10
10-20-95	810	4.1	<0.5	22	100	<2	<10
01-12-96	NS	NS	NS	NS	NS	NS	NS
04-11-96	55	<0.5	<0.5	0.73	0.60	<2	<50
07-17-96	NS	NS	NS	NS	NS	NS	NS
10-24-96	400	1.0	<0.5	17	19	<2	<30

Well MW-100

05-13-93	13000	83	<0.5	960	820	NA	NA
07-14-93	13000	32	<0.5	1400	790	8.0	NA
10-14-93	7500	48	16	900	520	22	NA
01-13-94	7000	51	<0.5	590	330	<20	NA
04-04-94	9800	69	<0.5	540	410	<20	NA
07-05-94	5900	31	8.7	190	190	<20	NA
10-03-94	3900	<0.5	<0.5	220	200	<50	NA
01-18-95	3700	48	31	190	120	2.8	NA
04-21-95	3100	10	<3	130	44	<2	NA
07-28-95	3300	<3	<3	100	42	<2	<50
10-20-95	2200	<0.5	<0.5	72	27	<2	15
01-12-96	1400	<0.5	<0.5	43	19	<2	<50
04-11-96	1600	7.7	1.3	23	9.0	<2	<50
07-17-96	1600	<0.5	<0.5	26	12	<2	NA
10-24-96	1300	<0.5	<0.5	24	8.4	<2	<30

Well MW-101

05-13-93	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
07-14-93	<50	<0.5	<0.5	<0.5	<0.5	11	NA
10-14-93	<50	0.65	0.89	<0.5	1.1	<20	NA
01-13-94	<50	<0.5	<0.5	<0.5	<0.5	28	NA
04-04-94	<50	<0.5	<0.5	<0.5	<0.5	<20	NA
07-05-94	<50	<0.5	<0.5	<0.5	<0.5	<20	NA
10-03-94	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
01-18-95	<50	<0.5	<0.5	<0.5	<0.5	2.6	NA
04-21-95	<50	<0.5	<0.5	<0.5	<0.5	<2	NA
07-28-95	<50	<0.5	<0.5	<0.5	<0.5	<2	<10
10-20-95	<50	<0.5	<0.5	<0.5	<0.5	<2	<10
01-12-96	NS	NS	NS	NS	NS	NS	NS
04-11-96	NS	NS	NS	NS	NS	NS	NS
07-17-96	NS	NS	NS	NS	NS	NS	NS
10-24-96	NS	NS	NS	NS	NS	NS	NS

cont. TABLE 17

ANALYTICAL TESTING RESULTS
 Montgomery Ward Auto Service Center
 ENEA Properties
 Dublin, California
 Parts per billion (ppb)

Page 4 of 5

Compounds	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	Lead	MTBE
Well MW-102							
05-13-93	3600	17	<0.5	130	63	NA	NA
07-14-93	1500	13	<0.5	64	4.9	<5	NA
10-14-93	24000	9.6	5.2	60	60	<20	NA
01-13-94	2000	22	<0.5	26	55	<20	NA
04-04-94	2100	16	2.5	15	35	<20	NA
07-05-94	1300	7.0	2.9	10	23	<20	NA
10-03-94	620	5.1	<0.5	5.2	11	<50	NA
01-18-95	440	<0.5	<0.5	3.0	5.3	3.7	NA
04-21-95	250	<0.5	0.78	0.96	0.63	<2	NA
07-28-95	140	<0.5	<0.5	<0.5	0.70	<2	<10
10-20-95 ⁽¹⁾	NS	NS	NS	NS	NS	NS	NS
01-12-96	1500	<0.5	<0.5	0.68	<0.5	<2	<50
04-11-96	190	<0.5	<0.5	<0.5	<0.5	<2	<50
07-17-96	280	<0.5	0.60	<0.5	<0.5	<2	NA
10-24-96	280	<0.5	<0.5	<0.5	<0.5	<2	<30
ENEA MW-1							
10-14-93	5700	76	19	460*	160*	<20	NA
01-13-94	NS	NS	NS	NS	NS	NS	NS
04-04-94	7000	27	<0.5	260	49	<20	NA
07-05-94	5100	23	<0.5	260	50	<20	NA
10-03-94	4400	8.1	<0.5	170	50	<50	NA
01-18-95	2000	7.1	2.4	47	5.5	2.2	NA
04-21-95	1400	2.9	9.0	22	1.2	5.8	NA
07-28-95	1100	<0.5	<0.5	14	1.4	<2	10
10-20-95	1700	<0.5	2.2	22	3.6	<2	23
01-12-96	920	<0.5	<0.5	9.9	2.2	<2	<50
04-11-96	1100	<0.5	<0.5	3.3	1.6	<2	<50
07-17-96	710	<0.5	<0.5	1.2	<0.5	<2	NA
10-24-96	920	<0.5	<0.5	1.9	<0.5	<2	<30
ENEA MW-2							
10-14-93	<50	<0.5	<0.5	0.71*	1.1*	21	NA
01-13-94	NS	NS	NS	NS	NS	NS	NS
04-04-94	<50	<0.5	<0.5	<0.5	<0.5	21	NA
07-05-94	<50	<0.5	<0.5	<0.5	<0.5	<20	NA
10-03-94	590	1.1	<0.5	22	6.5	<50	NA
01-18-95	<50	<0.5	<0.5	<0.5	<0.5	2.4	NA
04-21-95	<50	<0.5	<0.5	<0.5	<0.5	<2	NA
07-28-95	<50	<0.5	<0.5	<0.5	0.57	<2	<10
10-20-95	<50	<0.5	<0.5	<0.5	<0.5	<2	<10
01-12-96	NS	NS	NS	NS	NS	NS	NS
04-11-96	<50	<0.5	<0.5	<0.5	<0.5	<2	<50
07-17-96	NS	NS	NS	NS	NS	NS	NS
10-24-96	NS	NS	NS	NS	NS	NS	NS

cont. TABLE 7

ANALYTICAL TESTING RESULTS
 Montgomery Ward Auto Service Center
 ENEA Properties
 Dublin, California
 Parts per billion (ppb)


Compounds	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	Lead	MTBE
ENE A MW-3							
10-14-93	2600	26	30	130*	100*	<20	NA
01-13-94	NS	NS	NS	NS	NS	NS	NS
04-04-94	2600	13	3.4	90	140	<20	NA
07-05-94	3400	15	5.0	31	48	<20	NA
10-03-94	1400	6.3	<0.5	31	36	<50	NA
01-18-95	2300	5.1	1.6	2.9	18	2.1	NA
04-21-95	1900	5.3	<0.5	7.5	4.2	<2	NA
07-28-95	1400	<0.5	<0.5	5.5	1.5	<2	11
10-20-95	730	<0.5	<0.5	1.7	<0.5	<2	<10
01-12-96	370	<0.5	<0.5	<0.5	<0.5	<2	<50
04-11-96	410	<0.5	<0.5	<0.5	<0.5	<2	<50
07-17-96	450	<0.5	<0.5	<0.5	<0.5	<2	NA
10-24-96	290	<0.5	<0.5	<0.5	<0.5	<2	<30
ENE A MW-4							
04-04-94	<50	<0.5	<0.5	<0.5	<0.5	23	NA
07-05-94	<50	<0.5	0.5	<0.5	0.62	<20	NA
10-03-94	<50	<0.5	<0.5	<0.5	<0.5	<50	NA
01-18-95	<50	<0.5	0.87	<0.5	<0.5	7.2	NA
04-21-95	<50	<0.5	1.7	<0.5	<0.5	2.8	NA
07-28-95	<50	<0.5	<0.5	<0.5	<0.5	2.9	<10
10-20-95	<50	<0.5	<0.5	<0.5	<0.5	<2	<10
01-12-96	NS	NS	NS	NS	NS	NS	NS
04-11-96	<50	<0.5	<0.5	<0.5	<0.5	2.6	<50
07-17-96	NS	NS	NS	NS	NS	NS	NS
10-24-96	NS	NS	NS	NS	NS	NS	NS

NOTES:

- TPH-G = Total Petroleum Hydrocarbons as Gasoline
- MTBE = Methyl-Tertiary-Butylether
- (1) - Well MW-102 was not sampled because well was inaccessible due to street construction.
- NA-Not Analyzed
- ND-Not Detected
- NS-Not Sampled
- * - Data points corrected on June 1, 1996.
- < = Not detected at or above concentration limit listed.

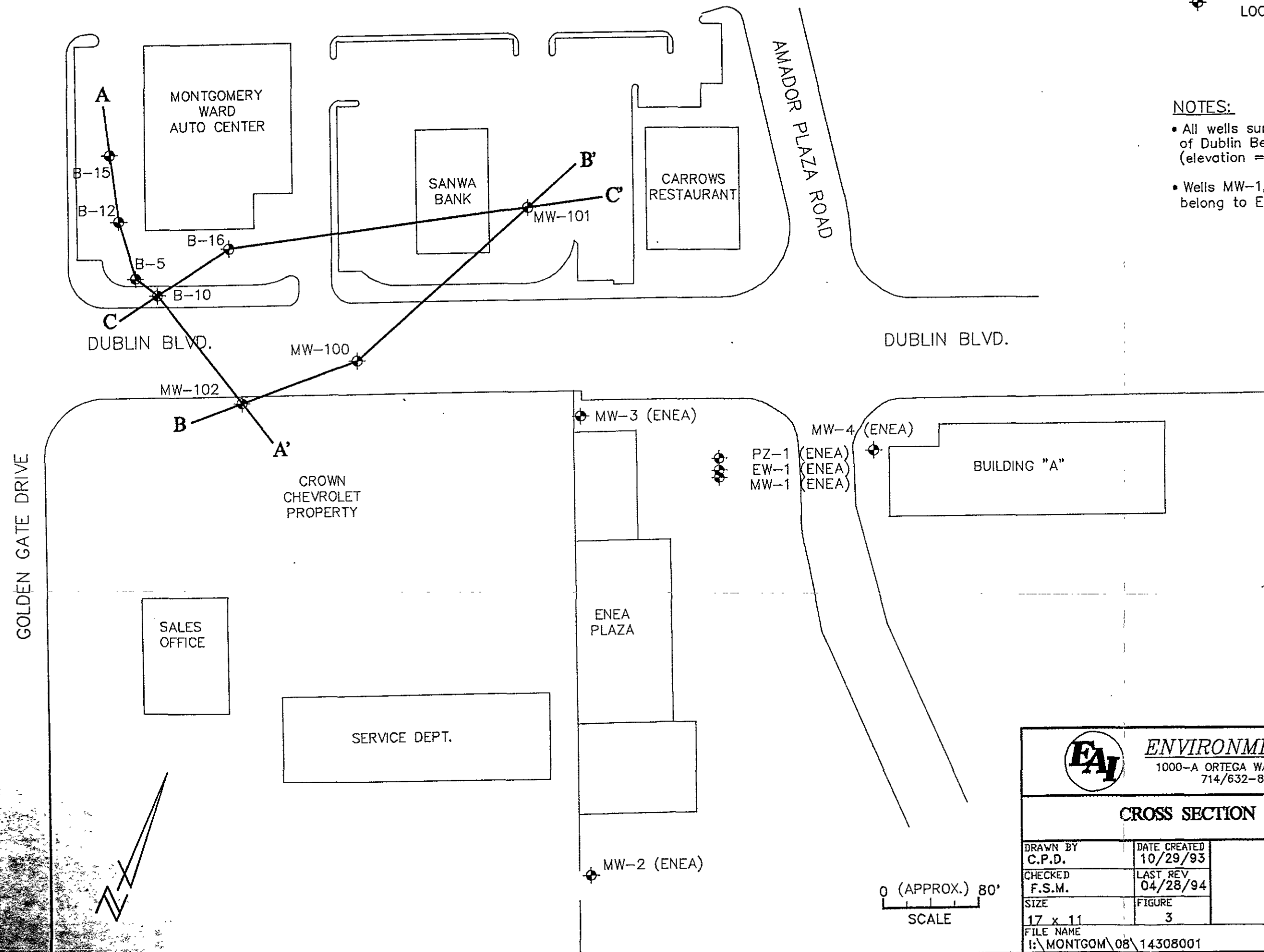
K-1233-ANALYTIC.DOC

EXPLANATION:


MW-1  GROUND WATER MONITORING WELL LOCATION

NOTES:

- All wells surveyed to the city of Dublin Benchmark No DUB-680 (elevation = 331.60 feet MSL)
- Wells MW-1, MW-2, MW-3, PZ-1 & EW-1 belong to ENEA Properties.

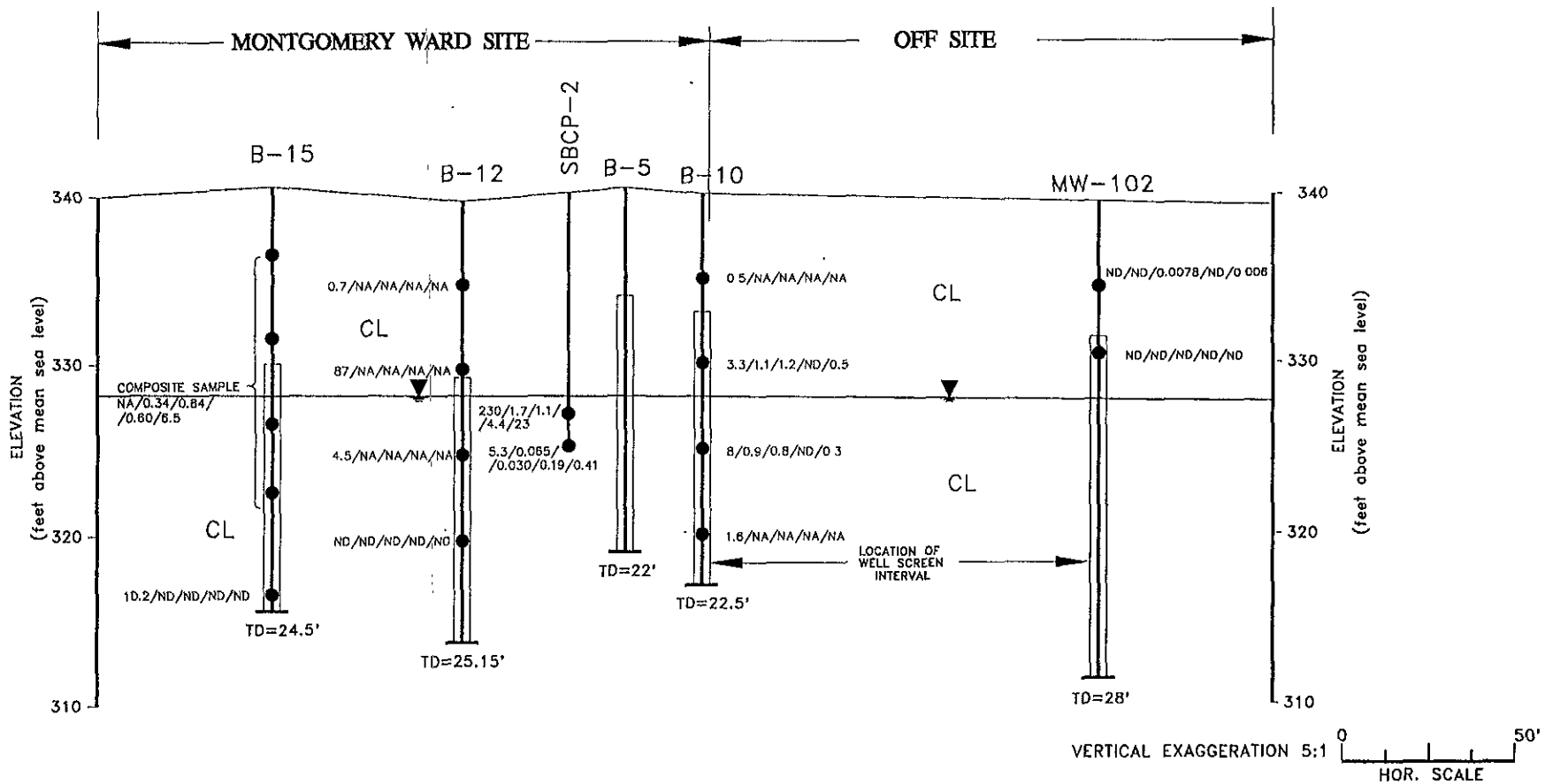


0 (APPROX.) 80'
SCALE

 ENVIRONMENTAL AUDIT, INC. 1000-A ORTEGA WAY • PLACENTIA, CA 92670-7125 714/632-8521 • FAX: 714/632-6754		
CROSS SECTION LOCATION MAP		
DRAWN BY C.P.D.	DATE CREATED 10/29/93	MONTGOMERY WARD AUTO SERVICE CENTER 7575 DUBLIN BOULEVARD DUBLIN, CALIFORNIA
CHECKED F.S.M.	LAST REV 04/28/94	
SIZE 17 x 11	FIGURE 3	
FILE NAME I:\MONTGOM\08\14308001		

A
NORTHWEST

A'
SOUTHEAST



EXPLANATION:

- CH - CLAY, HIGH PLASTICITY
- CL - SILTY CLAY, LOW PLASTICITY
- ND - NOT DETECTED
- NA - NOT ANALYZED
- ▽ - WATER TABLE (01-13-94)
- - SOIL SAMPLE LOCATION

CONSTITUENTS SHOWN: TPH/B/T/E/X (mg/kg)

- TPH = TOTAL PETROLEUM HYDROCARBONS
- B = BENZENE
- T = TOLUENE
- E = ETHYLBENZENE
- X = XYLENES



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714/632-8521 • FAX: 714/632-6754

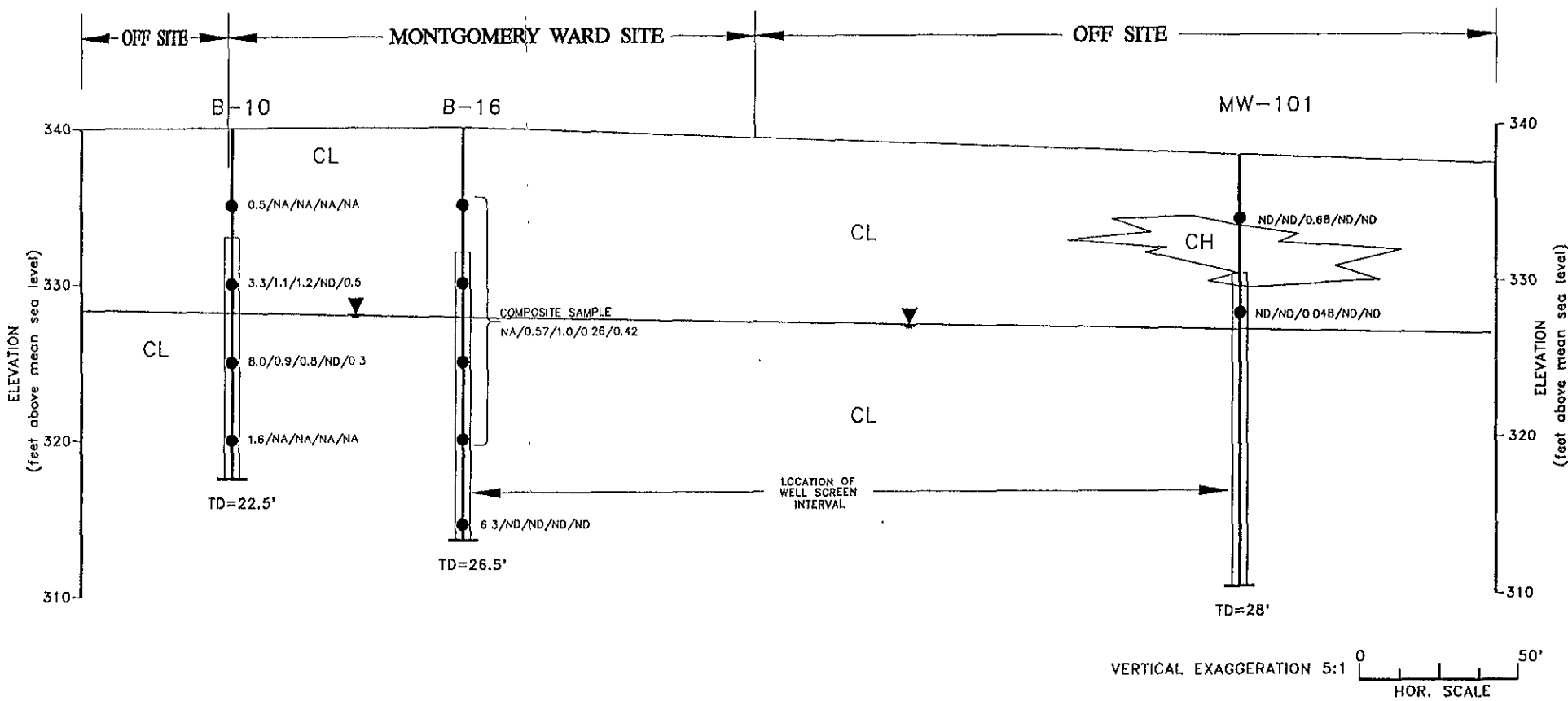
CROSS SECTION A-A'

DRAWN BY M.C.	DATE CREATED 03/11/94
CHECKED B.H.M.	LAST REV 08/22/95
SIZE 11 x 8.5	FIGURE 4
FILE NAME I:\MONTGOM\08\14308009	

MONTGOMERY WARD
AUTO SERVICE CENTER
DUBLIN, CALIFORNIA

B
WEST

B'
EAST



EXPLANATION:

- CH - CLAY, HIGH PLASTICITY
- CL - SILTY CLAY, LOW PLASTICITY
- ND - NOT DETECTED
- NA - NOT ANALYZED
- ▼ - WATER TABLE (01-13-94)
- - SOIL SAMPLE LOCATION

CONSTITUENTS SHOWN: TPH/B/T/E/X (mg/kg)

- TPH = TOTAL PETROLEUM HYDROCARBONS
- B = BENZENE
- T = TOLUENE
- E = ETHYLBENZENE
- X = XYLENES



ENVIRONMENTAL AUDIT, INC.
 1000-A ORTEGA WAY • PLACENTIA, CA 92670-7125
 714/632-8521 • FAX: 714/632-6754

CROSS SECTION B-B*

DRAWN BY	DATE ORIAED
M.C.	03/14/94
CHECKED	LAST REV
B.H.M.	08/22/95
SIZE	FIGURE
11 x 8.5	5

MONTGOMERY WARD
 AUTO SERVICE CENTER
 DUBLIN, CALIFORNIA

FILE NAME
 I:\MONTGOM\08\14308010

WELL LOG

115-140-1759 115-770-9008	A.D. Seidlich and Assoc. Inc. 6267 th - Graham Street - Newark, C.L. 94560	Project Name: MONTGOMERY WARD DUBLIN
Boring/Well ID: 1188002R-5	Date Started: 1/11/89	Date Completed: 1/11/89
Project and Task Number: 1188002R	Datum:	No. of Samples: 4
Size and Type of Casing: 2" PVC	Completion Depth: 22'	Water Level Depth: 12" ATD
Drilling Method/Equip: DIETRICH D-25	Perf: 0.02 Slotted	From: 7" To: 22"
Drilling Agency: ENSCO	Pack: Sand	From: 5" To: 22"
Driller: Cam	Drill Bit: 3' Hollow Core	Seal 1: Bentonite From: 4" To: 5"
Elev TOC: MSL	Elev WL: MSL	Seal 2: Concrete From: Grade To: 4"

Depth (feet)	Sample	Blws/ft	LITHOLOGIC DESCRIPTION	WELL	REMARKS
			AC Black top	*	
			BC Gravel, medium brown, sandy, silty, slightly moist,	*	
			Clay, medium to dark brown, sandy, silty, moist, becoming more sandy	*	
5	15		Clay, light brown, stiff, moist, slightly silty,	*	Sample No. 5-1-2 No Odor
10	11		Clay, light gray, mottled brown, soft, moist to wet.	*	Sample No. 5-2-2 Slight odor at tip ▽ ATD
15	5		Clay, light gray, mottled brown, sandy, wet, soft,	*	Sample No 5-3-2 No Odor
20	8		Clay, light brown mottled gray, soft moist.	*	Sample No. 5-4-2 No Odor
			Bottom Of Boring		
25					
30					

5

Logged by: IME
Figure
Page 1 of

* INDICATE WELL COVER AND / OR LOCK

WELL LOG

415-290-1759 Fax 415-770-9608		<i>A.D. Selditch and Assoc. Inc.</i> 6267 ^{1/2} - Joaquin Murria Ave., Newark, C.A. 94560		Project Name: <u>Montgomery Ward</u> <u>Dublin</u>	
Boring/Well ID: 1188002-R-6		Date Started: 1-11-89		Date Completed: 1-20-89	
Project and Task Number: 1188002-R		Datum:		No. of Samples: None	
Size and Type of Casing: 4" PVC		Completion Depth: 12'6"		Water Level Depth: 11'6"	
Drilling Method/Equip: Mobil B-61		Perf: 0.020 Slots		From: 2' To: 12'6"	
Drilling Agency: ENSCO		Pack: Pea Gravel		From: 2' To: 12'6"	
Driller: Scott Davison		Drill Bit: 10" Hollow Core		Seal 1: Bentonite	
Elev TOC: MSL		Elev WL: MSL		Seal 2: Concrete	
				From: 1' To: 2'	
				From: 0' To: 1'	

Depth (feet)	Sample	Blws/ft	LITHOLOGIC DESCRIPTION	WELL	REMARKS
			AC		
			BC Gravel, light brown, sandy, silty, moist		
			Gravel, light to dark, gray, moist.		
			"Pea gravel"		
5					
10					
					▽ ATD
			Bottom of Boring		Strong product odor on bottom auger.
15			Refusal--Concrete Pad, Suspected Tank Hold Down		Permanent "Cap" on bottom of casing
20					
25					
30					

Logged by: IMH
Figure
Page 1 of 1

* INDICATE WELL COVER AND / OR LOCK

WELL LOG

+15-190-1739 Fax 415-770-9608		<i>A.D. Seidlich and Assoc. Inc.</i> 62676 - Joaquin Mureta Ave., Newark, Ct. 94560		Project Name: <u>Montgomery Ward</u> <u>Dublin</u>	
Boring/Well ID: <u>1188002-R-7</u>		Date Started: <u>1/11/89</u>		Date Completed: <u>1/12/89</u>	
Project and Task Number: <u>1188002-R</u>		Datum:		No. of Samples:	
Size and Type of Casing: <u>4" PVC</u>		Completion Depth:		Water Level Depth:	
Drilling Method/Equip: <u>Diedrich D-25</u>		Perf: <u>N/A</u>		From: To:	
Drilling Agency: <u>ENSCO</u>		Pack: <u>N/A</u>		From: To:	
Driller: <u>CAM</u>		Drill Bit: <u>6" cont. flight</u>		Seal 1: From: To:	
Elev TOC: <u>MSL</u>		Elev WL: <u>MSL</u>		Seal 2: From: To:	

Depth (feet)	Sample	Blws/ft	LITHOLOGIC DESCRIPTION	WELL	REMARKS
			AC		
			BC gravel, light brown, sandy, silty, moist	*	
			Clay, medium gray, silty, moist		
			Bottom of Boring		
5			BORING ABANDONED		
10					
15					
20					
25					
30					

Note: Hit white PVC irrigation line @ 1'±
Damage repaired 1-12-89

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* INDICATE WELL COVER AND / OR LOCK

WELL LOG

115-100-1759 Fax 415-770-9608		<i>A.D. Schuch and Assoc. Inc.</i> 62671 - Joann Harro Ave., Newark, Ct 04560		Project Name: MONTGOMERY WARD DUBLIN	
Boring/Well ID: 1188002R-8		Date Started: 1/12/89		Date Completed: 1/12/89	
Project and Task Number: 1188002R		Datum:		No. of Samples: NONE	
Size and Type of Casing: 4" pvc		Completion Depth: 12'6"		Water Level Depth: 11'6"	
Drilling Method/Equip: Diedrich D-25		Perf: 0.02" Slotted		From: 2' To: 12'6"	
Drilling Agency: ENSCO		Pack: Pea Gravel		From: 2' To: 12'6"	
Driller: JR		Drill Bit 10' Hollow Core		Seal 1: Concrete From: Grade To: 2'	
Elev TOC: MSL		Elev WL: MSL		Seal 2: From: To:	

Depth (feet)	Sample	Blows/ft	LITHOLOGIC DESCRIPTION	WELL	REMARKS
			AC Black Top	/ / /	Note: Friction Cap Installed Pending Installation of Vapor Recovery System
			BC Gravel, light Brown, sandy, silty, slightly moist to moist	/ / /	
5			Gravel, light to dark gray, moist (Pea Gravel Backfill)	/ / /	
10			Free Product on Augers, Strong Product Odor on Bottom Auger Refusal at 12'6" (Concrete slab 12')	/ / /	▽ ATD
15			Bottom of Bore	/ / /	
20				/ / /	
25				/ / /	
30				/ / /	

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* INDICATE WELL COVER AND / OR LOCK

WELL LOG

#15-190-1739 Fax #15-770-9608		A.D. Selditch and Assoc. Inc. 6267 th - Joaquin Murieto Ave., Newark, Ct. 04560		Project Name:	
Boring/Well ID: 1188002-R-9		Date Started: 1-12-89		Date Completed: 1-20-89	
Project and Task Number: 1188002-R		Datum:		No. of Samples: None	
Size and Type of Casing: 4" PVC		Completion Depth: 12.5'		Water Level Depth: 11.5'	
Drilling Method/Equip: Mobil B-61		Perf: 0.020 slots:		From: 2' To: 12.5'	
Drilling Agency: ENSCO		Pack: Pea Gravel		From: 2' To: 12.5'	
Driller: Scott		Drill Bit: 10" Hollow Stem		Seal 1: Bentonite	
Elev TOC: MSL		Elev WL: MSL		Seal 2: Concrete	
				From: 0' To: 1'	

Depth (feet)	Sample	Blws/ft	LITHOLOGIC DESCRIPTION	WELL	REMARKS
			AC:	*	
			BC Gravel, light brown, sandy, silty, slightly moist.		(Gray PVC conduit for abandoned electrical at 14"-)
5			Gravel, light to dark gray, moist. "Pea Gravel"		
10			Refusal--Concrete Slab Believed to be Tank Holddown Slab		▽ ATD
			Bottom of Boring		Slight product odor
15					
20					
25					
30					

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* INDICATE WELL COVER AND / OR LOCK

WELL LOG

415-790-1739

A.D. Selditch and Assoc. Inc.

Project Name:

Fax 415-770-9608

63675 - Joaquin Maroto Ave., Newark, C.A. 94560

Boring/Well ID: 1188002R-10		Date Started: 2/8/89	Date Completed: 2/8/89	
Project and Task Number: 1188002R		Datum:	No. of Samples: 4	
Size and Type of Casing: 2" PVC		Completion Depth: 22' 6"	Water Level Depth: 12' 6" ATD	
Drilling Method/Equip: Mobile Drill B-34		Perf: 0.020 Slots	From: 6' 6"	To: 22"
Drilling Agency: ENSCO		Pack: #3 Sand	From: 5'	To: 22"
Driller: Frank	Drill Bit: 8" Hollow Core	Seal 1: Bentonite	From: 4'	To: 5'
Elev TOC: MSL	Elev WL: MSL	Seal 2: Concrete	From: 0'	To: 4'

Depth (feet)	Sample	Blws/ft	LITHOLOGIC DESCRIPTION	WELL	REMARKS
			GC (Ground Cover)		
			Gravel, light to medium gray, clayey, sandy, silty, slightly moist, fine to coarse.		
			Clay (CL), medium to dark gray, trace gravel, sandy, silty, moist.		
5		40	Clay (CL), brown-gray, sandy, silty, slightly moist, stiff to very stiff.		5-1-2
10		21	Clay (CL), as above, less stiff		10-2-2 ▽ ATD
15		10	Clay (CL), light to medium brown, sandy, silty, moist, firm. Trace rootlets.		15-3-2
20		8	Clay (CL), light to medium brown, sandy, silty, moist, soft.		20-4-2
			Bottom of Boring		
25					
30					

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* INDICATE WELL COVER AND / OR LOCK

WELL LOG

415-290-1739 Fax 415-770-9008		<i>A.D. Schlich and Assoc. Inc.</i> 62671 - Joaquin Murria Ave... Newark, C.L. 94560		Project Name: Montgomery Ward Dublin	
Boring/Well ID: 1188002R-111		Date Started: 12-1-88		Date Completed: 12-1-88	
Project and Task Number: 1188002R		Datum:		No. of Samples: 2	
Size and Type of Casing: 4" PVC		Completion Depth: 13'6"		Water Level Depth: NA	
Drilling Method/Equip: Mobile B-611		Perf: 0.02"		From: 1'0" To: 13'6"	
Drilling Agency: Ensco		Pack: Monterey Sand #2		From: 1'0" To: 13'6"	
Driller: Scott Davison		Drill Bit: 8" Hollow Core		Seal 1: Bentonite From: 0" To: 1'0"	
Elev TOC: MSL		Elev WL: MSL		Seal 2: From: To:	

Depth (feet)	Sample	Blows/ft	LITHOLOGIC DESCRIPTION	WELL	REMARKS
			6" Asphalt	*	
5	5i		Pea gravel	*	No odor Sample Lost
10					
15			100% Product Wet Pea Gravel		Strong gasoline odor
			Refusal at 13'6" - 12" concrete slab		Disturbed pea gravel (Sample #11-0-1) Gasoline Sample #RW-1
20					
25					
30					

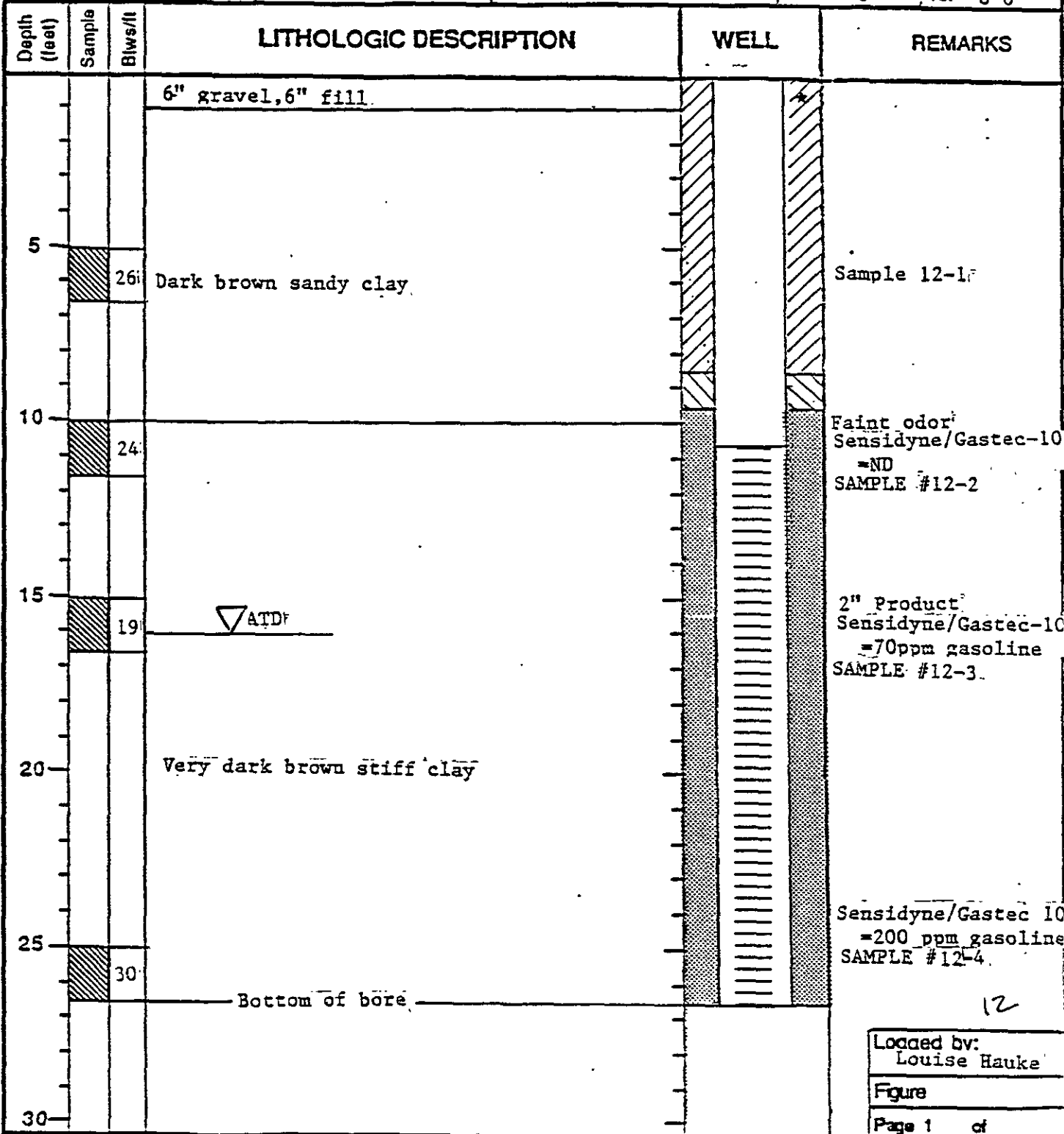
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* INDICATE WELL COVER AND / OR LOCK

WELL LOG

115-190-1754 Fax 415-771-9008		<i>A.D. Seidlich and Assoc. Inc.</i> 62675 - Joaquin Marra - Inc. Newark, Ct. 94500		Project Name: Montgomery Ward, Dublin CA	
Boring/Well ID: 118800 2R-12		Date Started: 12-2-88		Date Completed: 12-2-88	
Project and Task Number: 1188002R		Datum:		No. of Samples: 4	
Size and Type of Casing: 4" PVC		Completion Depth: 26'6"		Water Level Depth: 16' ATD	
Drilling Method/Equip: Mobile B-61		Perf: 0.02"		From: 10'6" To: 26'6"	
Drilling Agency: Ensco		Pack: Monterey Sand #2		From: 9'6" To: 26'6"	
Driller: Scott Davison		Drill Bit: 8" Hollow Core		Seal 1: Bentonite	
Elev TOC: MSL		Elev WL: MSL		Seal 2: Concrete	
				From: 8'6" To: 9'6"	
				From: 0 To: 8'6"	



* INDICATE WELL COVER AND / OR LOCK

WELL LOG

118-200-1759 Fax 118-770-9008		A.D. Seditch and Assoc. Inc. 6267th - Jamaica Avenue - Newark, C.T. 94560		Project Name: Montgomery Ward Dublin	
Boring/Well ID: 1188002R-13		Date Started: 12-1-88		Date Completed: 12-1-88	
Project and Task Number: 1188002R		Datum:		No. of Samples: 2	
Size and Type of Casing: 4" PVC		Completion Depth: 13'6"		Water Level Depth: NA	
Drilling Method/Equip: Mobile B-611		Perf: 0.02"		From: 11'0" To: 13'6"	
Drilling Agency: ENSCO		Pack: Monterey Sand #2		From: 1'0" To: 13'6"	
Driller: Scott Davison		Drill Bit: 8" Hollow Core		Seal 1: Bentonite	
Elev TOC: MSL		Elev WL: MSL		Seal 2:	
				From: To:	

Depth (feet)	Sample	Blws/ft	LITHOLOGIC DESCRIPTION	WELL	REMARKS
			6" Asphalt	/	
5	S1		Pea gravel	/	No odor Sample Lost
10				/	
15			100% Product Wet Pea Gravel	/	Strong gasoline odor
			Refusal at 13'6" - 12" concrete slab	/	Disturbed pea grave (Sample #11-0- Gasoline Sample #RW
20				/	
25				/	
30				/	

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* INDICATE WELL COVER AND / OR LOCK