



Subsurface Consultants, Inc.

20114

CLOSED

January 31, 2003
Project No. 03.126

Alameda County
FEB 04 2003
Environmental Health

Attention: Mr. Barney Chan
Alameda County Health Agency
Department of Environmental Protection
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502

**Monitoring Well Decommissioning Report
Housewives Marketplace
Oakland, California**

Dear Mr. Gomez:

Subsurface Consultants, Inc./Fugro West, Inc. (SCI) has prepared this letter to document the decommissioning of monitoring wells MW-1 through MW-3 at the subject site. This work was completed on behalf of the City of Oakland Public Works Agency (City).

Prior to well decommissioning activities, SCI obtained a drilling permit from ACPWA (attached). HEW Drilling (HEW), a licensed drilling contractor conducted the well decommissioning on January 24, 2003. Well decommissioning activities consisted of the following:

- Each 2-inch diameter PVC wells was sounded to confirm no obstruction was present.
- The wells were then grouted with neat cement and pressure was applied to the well using a compressor. HEW maintained a pressure of approximately 25 pounds per square inch (psi) for about 10 minutes at each grout-filled well, then topped with grout.
- At each well, the upper 1-foot was filled in to grade with rapid set concrete to match existing grade.

SCI has attached copies of the well construction details for the three wells, a site plan prepared by Harding ESE that shows their location, and copies of the Department of Water Resources Well Drillers Report, Forms 188. SCI did not remove the upper three to five feet of the casing for each well because the developer is planning to regrade the site

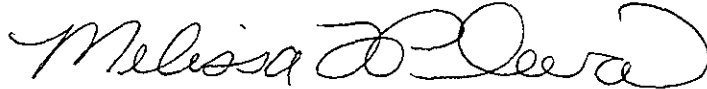
Mr. Barney Chan
Alameda County Health Agency
January 31, 2003
Project No. 03.126
Page 2

Subsurface Consultants, Inc.

We trust this provides the information required at this time. Please call if you have any questions.

Yours very truly,

Subsurface Consultants, Inc.



Melissa L. Pleva
Staff Engineer & Geologist



Stephen J. Osborne, GE
Principal Engineer



MLP:SJO: am G:\jobdocs\03.126\Well Decommissioning.doc

1 copy submitted

Attachments: ACPWA Permit
Department of Water Resources Water Well Drillers Reports (DWR.188)
Harding ESE site plan
Harding ESE well completion logs for MW-1, MW-2, and MW-3

cc: Mr. Mark Gomez
City of Oakland Public Works
Environmental Service Department
250 Frank H. Ogawa Plaza, Suite 5301
Oakland, California

California Department of Water Resources
3251 S Street
Sacramento, California 95816

Alameda County Public Works Agency
Water Resource Section
399 Elmhurst St
Hayward, CA 94544



1000 Broadway, Suite 200
Oakland, California 94607
Tel: (510) 268-0461
Fax: (510) 268-0137

January 24, 2003
03.126

Mr. Larry Johmann
Alameda County Public Works Agency
399 Elmhurst Street
Hayward, California 94544-1395

**Permit for Well Destruction
City Block Bounded by Clay, Jefferson, 8th, and 9th Streets
Oakland, California**

Dear Mr. Johmann:

Fugro West, Inc. (Fugro) will abandon one additional well on the referenced property on January 24, 2003. Yesterday, when we permitted the destruction of MW-2 and 3, we believed that MW-1 had already been destroyed. Today, we observed that the well is still in place and has a depth of 33 feet. The location of MW-1 is shown on the attached site plan. We have attached a drilling permit application for this well destruction. MW-1 was constructed by Harding Lawson Associates. We do not have access to the permit number that your agency gave the wells when Harding Lawson Associates obtained the well permit.

Well destruction will consist of the following:

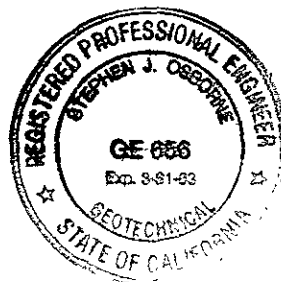
- The 2-inch diameter PVC well will be sounded to confirm no obstruction is present.
- The well box cover will be removed.
- The well will then be grouted with neat cement using a tremie pipe. The well driller, HEW Drilling, will then top it off with grout.
- The well will then be filled in to grade with neat cement and quick setting concrete.

We trust this provides the information required at this time. We appreciate your flexibility in allowing us to destroy these wells with very short notice. Please call if you have any questions.

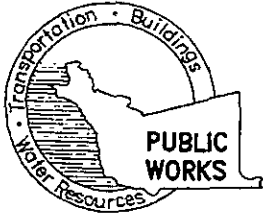
Yours very truly,

Fugro West, Inc.


Stephen Osborne, GE
Principal Engineer



Attachments Drilling Permit Application
 Harding ESE Site Plan, Plate 1



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-6633 James Yoo
FAX (510) 782-1939

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT CITY BLOCK BOUNDED
BY 8TH, 9TH, SEFFELSON, AND
CLAY STREETS

CLIENT MARK GOMBZ
Name CITY OF OAKLAND, ENVIRONMENTAL SERVICES
Address 250 FRANK OGDEN Phone 510 238 7314
City Oakland CA Zip 94612

APPLICANT
Name Stephen OSBORNE
EUGROWEST INC Fax 510 268 0137
Address 1000 BROADWAY #10 Phone 510 267 4411
City Oakland CA Zip 94607

TYPE OF PROJECT

Well Construction Geotechnical Investigation
Cathodic Protection General
Water Supply Contamination
Monitoring Well Destruction

PROPOSED WATER SUPPLY WELL USE

New Domestic Replacement Domestic
Municipal Irrigation
Industrial Other _____

DRILLING METHOD:

Mud Rotary Air Rotary Auger
Cable Other PRESSURE GROUT

DRILLER'S NAME HEW DRILLING

DRILLER'S LICENSE NO. 604 987

WELL PROJECTS

Drill Hole Diameter _____ in. Maximum
Casing Diameter _____ in. Depth 33 ft.
Surface Seal Depth _____ ft. Owner's Well Number NW-1

GEOTECHNICAL PROJECTS

Number of Borings _____ Maximum
Hole Diameter _____ in. Depth _____ ft.

STARTING DATE JANUARY 24, 2003

COMPLETION DATE JANUARY 24, 2003

FOR OFFICE USE

PERMIT NUMBER _____
WELL NUMBER _____
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

A. GENERAL

1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date

B. WATER SUPPLY WELLS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL

Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

E. CATHODIC

Fill hole anode zone with concrete placed by tremie.

F. WELL DESTRUCTION

Send a map of work site. A separate permit is required for wells deeper than 45 feet.

G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED _____ DATE _____

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68

APPLICANT'S SIGNATURE [Signature] DATE JANUARY 24, 2003

PLEASE PRINT NAME _____ Rev 9-18-02

ORIGINAL
File with DWR

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

DWR USE ONLY — DO NOT FILL IN

STATE WELL NO./STATION NO.

LATITUDE LONGITUDE

APN/TRS/OTHER

Page of
 Owner's Well No. MW-1 No.
 Date Work Began 1-24-03 Ended 1-24-03
 Local Permit Agency Alameda County Public Works Agency
 Permit No. Permit Date

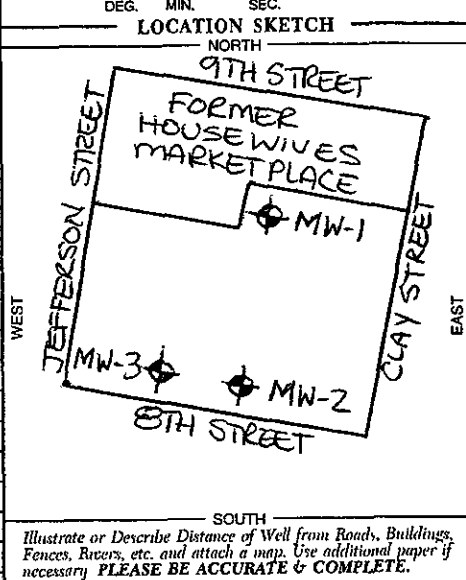
ORIENTATION (≠)		GEOLOGIC LOG	
		<input checked="" type="checkbox"/> VERTICAL	<input type="checkbox"/> HORIZONTAL
		ANGLE (SPECIFY) <u> </u>	
DEPTH FROM SURFACE		DRILLING METHOD	FLUID
FL	to FL	<u>auger</u>	<u>N/A</u>
DESCRIPTION			
Describe material, grain size, color, etc.			
0	0.5	ASPHALT CONCRETE	
0.5	1.8	Brown SILTY SAND (SM) medium dense, moist (FILL)	
1.8	2.5	Brown SAND (SP) trace brick moist, loose to medium dense (FILL)	
2.5	20.0	Dark to light brown SAND (SP) moist, medium dense	
20.0	36.5	Light brown SILTY SAND (SM) moist, dense	
TOTAL DEPTH OF BORING <u>36.5</u> (Feet)			
TOTAL DEPTH OF COMPLETED WELL <u>36.5</u> (Feet)			

WELL OWNER

Name City of Oakland Public Works
 Mailing Address 250 Frank Ogawa Plaza
Oakland CA 94607
 CITY STATE ZIP

WELL LOCATION

Address City Block bounded by 8th, Jefferson, 9th & Clay
 City Oakland
 County Alameda
 APN Book Page Parcel
 Township Range Section
 Latitude NORTH Longitude WEST
 DEG. MIN. SEC. DEG. MIN. SEC.



- ACTIVITY (≠)
- NEW WELL
- MODIFICATION/REPAIR
- Deepen
- Other (Specify)
- DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")
- PLANNED USES (≠)
- WATER SUPPLY
- Domestic Public
- Irrigation Industrial
- MONITORING
- TEST WELL
- CATHODIC PROTECTION
- HEAT EXCHANGE
- DIRECT PUSH
- INJECTION
- VAPOR EXTRACTION
- SPARGING
- REMEDICATION
- OTHER (SPECIFY)

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER 23 (FL) BELOW SURFACE

DEPTH OF STATIC WATER LEVEL 23.5 (FL) & DATE MEASURED 5/3/2001

ESTIMATED YIELD * (GPM) & TEST TYPE

TEST LENGTH (Hrs.) TOTAL DRAWDOWN (FL)

* May not be representative of a well's long-term yield.

DEPTH FROM SURFACE	BORE-HOLE DIA. (Inches)	CASING (S)							
		TYPE (≠)				MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
FL	to FL	BLANK	SCREEN	CON-DUCTOR	FILL PIPE				
0	24	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Schedule 40 PVC	2		
24	36.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Screen - 40 PVC	2	0.02	

DEPTH FROM SURFACE	ANNULAR MATERIAL				
	TYPE				
FL	to FL	CE-MENT (≠)	BEN-TONITE (≠)	FILL (≠)	FILTER PACK (TYPE/SIZE)
0	18	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
18	20	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
20	36.5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SAND 2/12

- ATTACHMENTS (≠)
- Geologic Log
- Well Construction Diagram
- Geophysical Log(s)
- Soil/Water Chemical Analyses
- Other
- ATTACH ADDITIONAL INFORMATION IF IT EXISTS

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

NAME
 (PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

ADDRESS CITY STATE ZIP

Signed WELL DRILLER/AUTHORIZED REPRESENTATIVE DATE SIGNED C 57 LICENSE NUMBER

ORIGINAL
File with DWR

STATE OF CALIFORNIA
WELL COMPLETION REPORT

Refer to Instruction Pamphlet

OWR USE ONLY - DO NOT FILL IN

STATE WELL NO./STATION NO.	
LATITUDE	LONGITUDE
APN/TRS/OTHER	

Page ___ of ___

Owner's Well No. MW-2

No.

Date Work Began _____, Ended _____

Local Permit Agency Alameda County Public Works Agency

Permit No. _____ Permit Date _____

GEOLOGIC LOG			
ORIENTATION (±)		DRILLING METHOD	FLUID
<input checked="" type="checkbox"/> VERTICAL _____ HORIZONTAL _____ ANGLE _____ (SPECIFY)		<u>Auger</u>	<u>N/A</u>
DEPTH FROM SURFACE	DESCRIPTION		
FL to FL	Describe material, grain size, color, etc.		
0 0.5	ASPHALT CONCRETE		
0.5 1.5	Gravelly CLAY with Sand, medium stiff, moist (CL) (FILL)		
1.5 11.0	Light Brown SAND (SP) dense, moist		
11.0 20.0	Light brown CLAYEY SAND (SC), dense, moist		
20.0 30.5	Light gray SILTY SAND (SM), dense, saturated		
30.5 31.5	Light brown to light gray fine Sand, medium dense to dense		
TOTAL DEPTH OF BORING _____ (Feet)			
TOTAL DEPTH OF COMPLETED WELL _____ (Feet)			

WELL OWNER

Name City of Oakland Public Works

Mailing Address 250 Frank Ogawa Plaza

Oakland CA 94607

CITY STATE ZIP

WELL LOCATION

Address City Block bounded by 8th, Jefferson, 9th & Clay

City Oakland

County Alameda

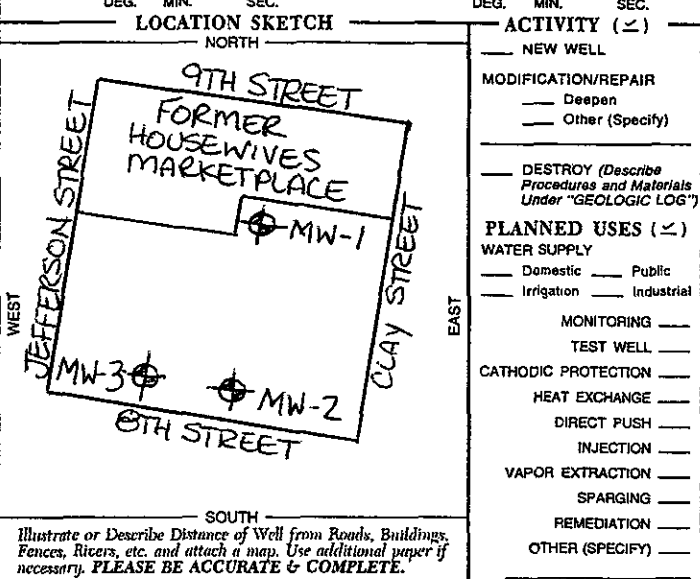
APN Book _____ Page _____ Parcel _____

Township _____ Range _____ Section _____

Latitude _____ North _____ West _____

DEG. MIN. SEC.

Longitude _____



WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER 20 (FL) BELOW SURFACE

DEPTH OF STATIC WATER LEVEL ~ 21.8 (FL) & DATE MEASURED 5-3-2001

ESTIMATED YIELD _____ (GPM) & TEST TYPE _____

TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (FL)

* May not be representative of a well's long-term yield.

DEPTH FROM SURFACE	BORE-HOLE DIA. (Inches)	CASING (S)					DEPTH FROM SURFACE	ANNULAR MATERIAL			
		TYPE (±)	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)		CE-MENT (±)	BEN-TONITE (±)	FILL (±)	FILTER PACK (TYPE/SIZE)
0 20.0		✓	Sched 40 PIC	2			0 17.5	✓			
20.0 30.0		✓	Sched 40 PIC	2		0.02	17.5 18.0		✓		
							18.0 30.0				SAND 2/12

- ATTACHMENTS (±)
- Geologic Log
 - Well Construction Diagram
 - Geophysical Log(s)
 - Soil/Water Chemical Analyses
 - Other _____
- ATTACH ADDITIONAL INFORMATION IF IT EXISTS

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

NAME _____ (PERSON, FIRM OR CORPORATION) (TYPED OR PRINTED)

ADDRESS _____ CITY _____ STATE _____ ZIP _____

Signed _____ WELL DRILLER/AUTORIZED REPRESENTATIVE DATE SIGNED _____ C-57 LICENSE NUMBER _____

ORIGINAL
File with DWR

STATE OF CALIFORNIA
WELL COMPLETION REPORT

Refer to Instruction Pamphlet

Page ___ of ___

Owner's Well No. MW-3

No. _____

Date Work Began _____ Ended _____

Local Permit Agency Alameda County Public Works Agency

Permit No. _____ Permit Date _____

DWR USE ONLY - DO NOT FILL IN	
STATE WELL NO./STATION NO.	
LATITUDE	LONGITUDE
APN/TRS/OTHER	

GEOLOGIC LOG

WELL OWNER

ORIENTATION (°)	<input checked="" type="checkbox"/> VERTICAL	<input type="checkbox"/> HORIZONTAL	ANGLE _____	(SPECIFY)
DEPTH FROM SURFACE	DRILLING METHOD	FLUID		
FL to FL	<u>Auger</u>	<u>N/A</u>		
DESCRIPTION				
<i>Describe material, grain size, color, etc.</i>				
<u>0</u>	<u>1.0</u>	<u>ASPHALT CONCRETE and Dark brown Sand (Fill)</u>		
<u>1.0</u>	<u>15.0</u>	<u>Light brown SAND (SP), dense, moist</u>		
<u>15.0</u>	<u>26.0</u>	<u>Light brown SILTY SAND (SM), dense, moist</u>		
<u>26.0</u>	<u>30.0</u>	<u>Light brown to gray FINE SAND dense, saturated</u>		

Name City of Oakland Public Works
 Mailing Address 250 Frank Ogawa Plaza
Oakland CA 94607
 CITY STATE ZIP

WELL LOCATION
 Address City Block Bounded by 8th, Jefferson, 9th, Clay
 City Oakland
 County Alameda
 APN Book _____ Page _____ Parcel _____
 Township _____ Range _____ Section _____
 Latitude _____ Longitude _____
DEG. MIN. SEC. NORTH SOUTH

LOCATION SKETCH

NORTH

SOUTH

Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (°)
 NEW WELL
 MODIFICATION/REPAIR
 Deepen
 Other (Specify) _____
 DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")
PLANNED USES (°)
 WATER SUPPLY
 Domestic Public
 Irrigation Industrial
 MONITORING _____
 TEST WELL _____
 CATHODIC PROTECTION _____
 HEAT EXCHANGE _____
 DIRECT PUSH _____
 INJECTION _____
 VAPOR EXTRACTION _____
 SPARGING _____
 REMEDIATION _____
 OTHER (SPECIFY) _____

TOTAL DEPTH OF BORING _____ (Feet)
 TOTAL DEPTH OF COMPLETED WELL _____ (Feet)

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER 26 (FL) BELOW SURFACE
 DEPTH OF STATIC WATER LEVEL 21.6 (FL) & DATE MEASURED 5-3-2001
 ESTIMATED YIELD * _____ (GPM) & TEST TYPE _____
 TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (FL)
 * May not be representative of a well's long-term yield.

DEPTH FROM SURFACE	BORE-HOLE DIA. (Inches)	CASING (S)						
		TYPE (°)				MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS
FL to FL	BLANK	SCREEN	CON-DUCTOR	FILL PIPE				
<u>0</u> : <u>20</u>	<input checked="" type="checkbox"/>				<u>Schedule 40 PVC</u>	<u>2</u>		
<u>20</u> : <u>30</u>		<input checked="" type="checkbox"/>			<u>Schedule 40 PVC</u>	<u>2</u>	<u>0.02</u>	

DEPTH FROM SURFACE	ANNULAR MATERIAL			
	TYPE			
FL to FL	CE-MENT (°)	BEN-TONITE (°)	FILL (°)	FILTER PACK (TYPE/SIZE)
<u>0</u> : <u>17.5</u>	<input checked="" type="checkbox"/>			
<u>17.5</u> : <u>180</u>		<input checked="" type="checkbox"/>		
<u>180</u> : <u>300</u>				<u>Sand 2/12</u>

ATTACHMENTS (°)

- Geologic Log
 - Well Constructor Diagram
 - Geophysical Log(s)
 - Soil/Water Chemical Analyses
 - Other _____
- ATTACH ADDITIONAL INFORMATION IF IT EXISTS

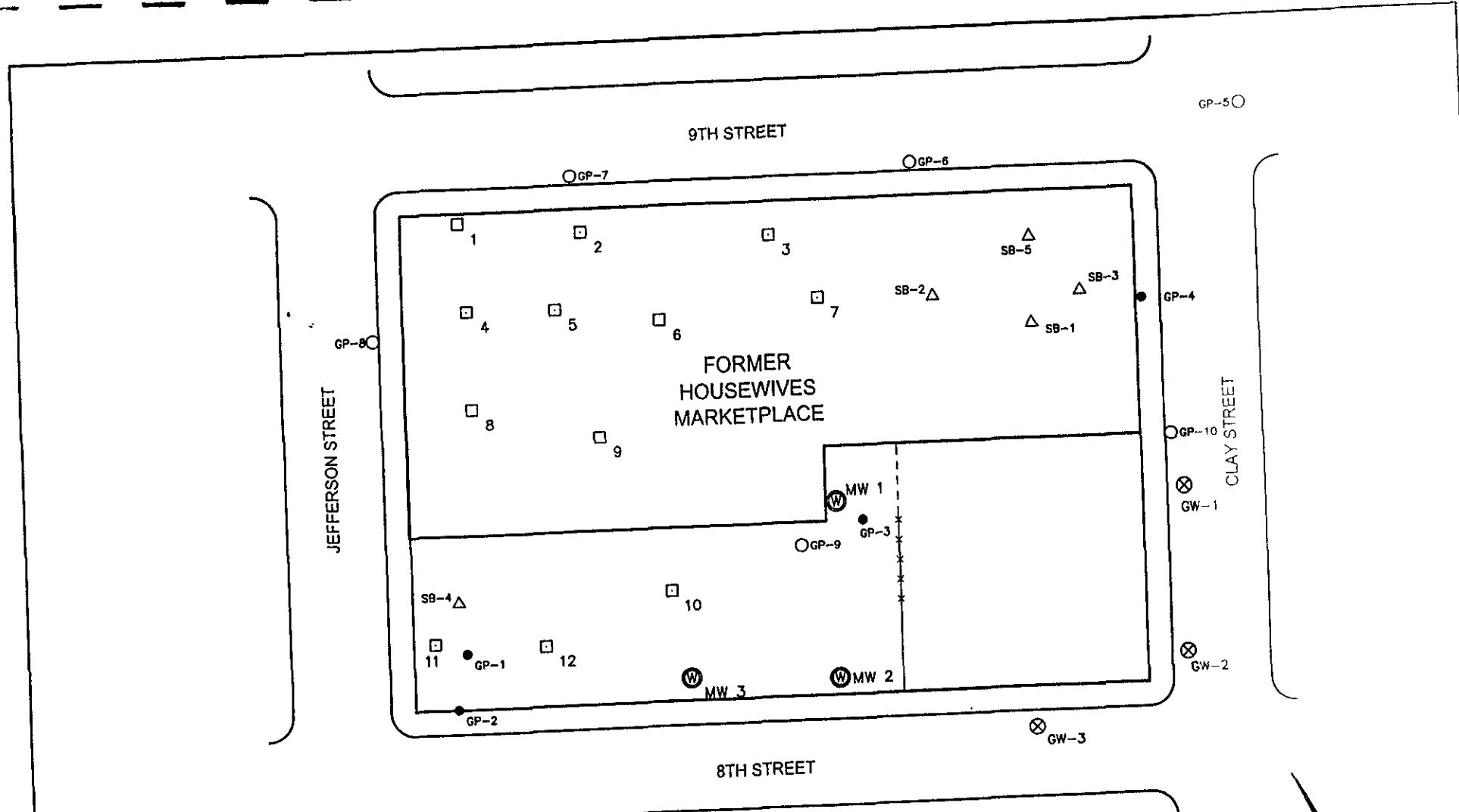
CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

NAME _____
(PERSON, FIRM, OR CORPORATION); (TYPED OR PRINTED)

ADDRESS _____ CITY _____ STATE _____ ZIP _____

Signed _____ DATE SIGNED _____ C-57 LICENSE NUMBER _____
APPROVED DRILLER/TESTER REPRESENTATIVE



EXPLANATION:

- MEASURED LOCATION OF SECOR BORING
- ESTIMATED LOCATION OF SECOR BORING
- △ ACTUAL LOCATION OF HARDING/ESE BORING
- ACTUAL LOCATION OF SHALLOW HARDING ESE BORING
- Ⓜ ACTUAL LOCATION OF HARDING ESE MONITORING WELL
- ⊗ ESTIMATED LOCATION OF HARDING ESE GROUNDWATER SAMPLE

Site Plan
 Locations of Borings, Samples and Monitoring Wells
 Housewives Marketplace
 801 Clay Street
 Oakland, California

APPROVED

DATE
 09/01

REVISED DATE

PLATE

1

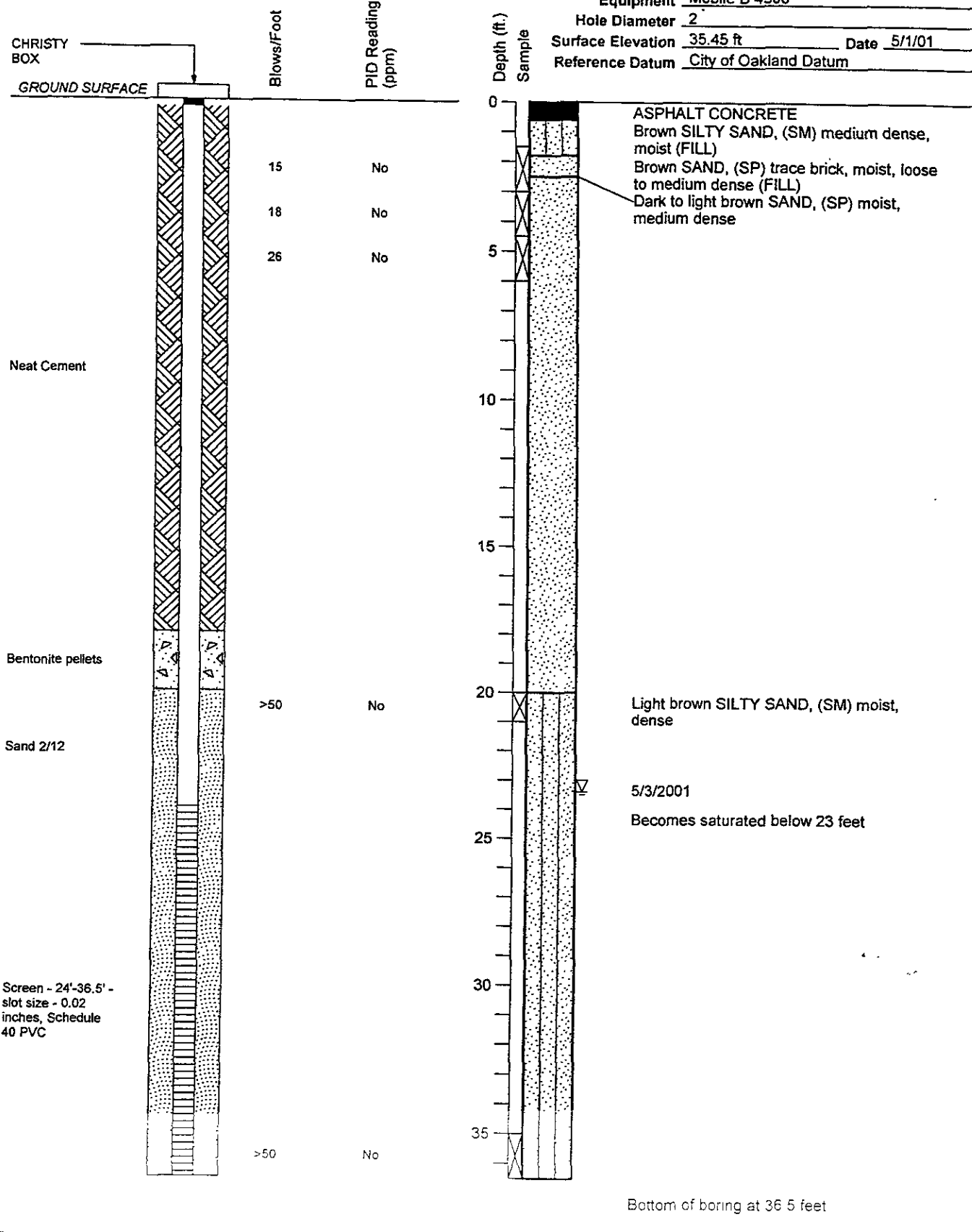


DRAWN
 SS

JOB NUMBER
 54023.1

54023001.DWG 1.0
 20010913.1004

Equipment Mobile B 4500
 Hole Diameter 2
 Surface Elevation 35.45 ft Date 5/1/01
 Reference Datum City of Oakland Datum



BORING WELL HARDINGESE 54023.GPJ GEOLOG.GDT 9/26/01

Screen - 24'-36.5' -
 slot size - 0.02
 inches, Schedule
 40 PVC

Bottom of boring at 36.5 feet



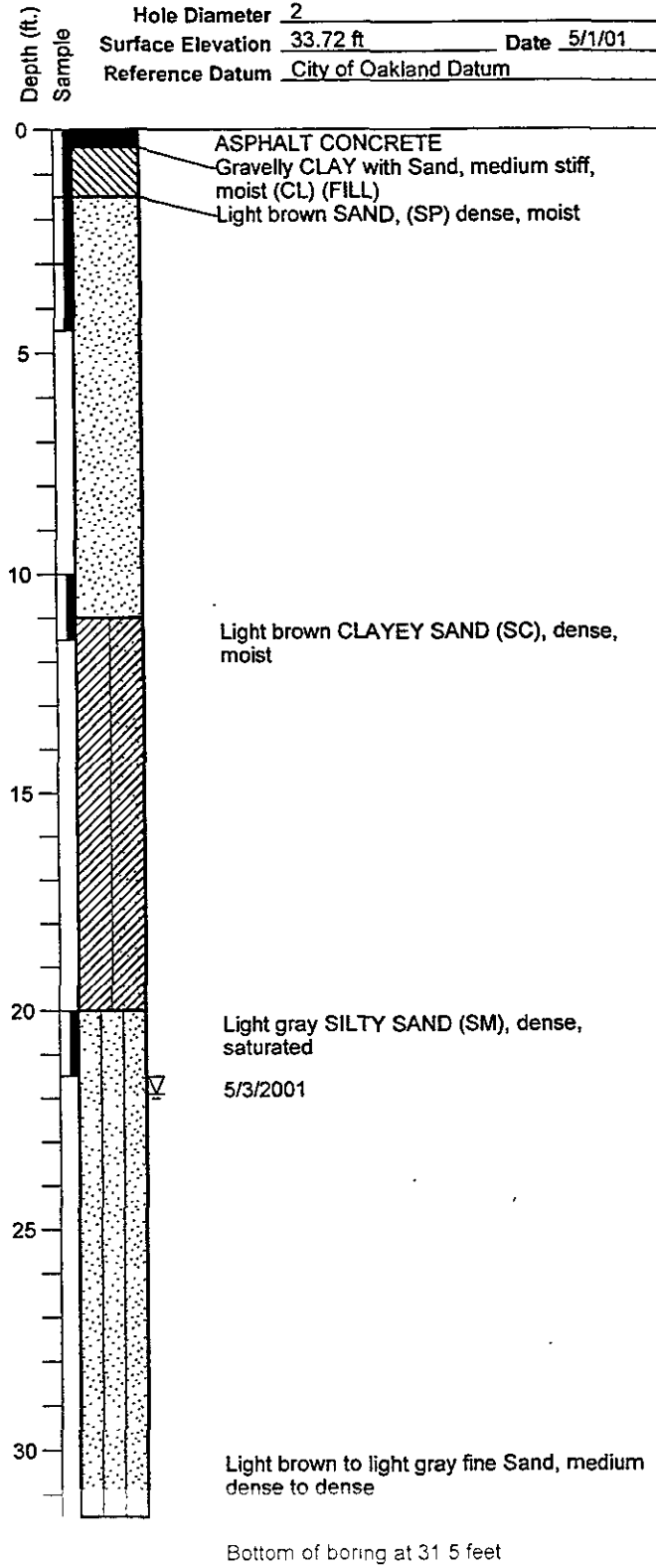
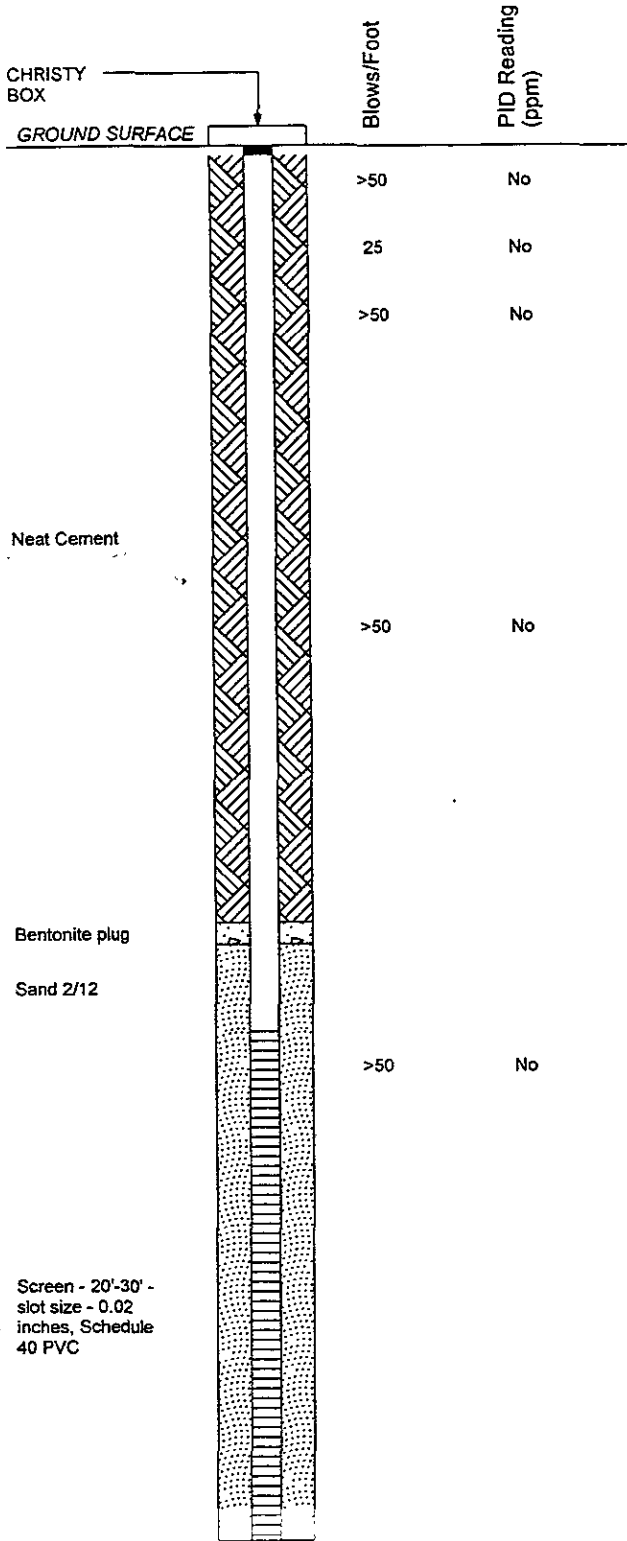
Well Construction Details and
 Log of Boring MW-1
 Housewives Marketplace
 801 Clay Street
 Oakland, California

PLATE

4

DRAWN SS	JOB NUMBER 54023	APPROVED	DATE 9/01	REVISED DATE
-------------	---------------------	----------	--------------	--------------

Equipment Mobile B 4500
 Hole Diameter 2
 Surface Elevation 33.72 ft Date 5/1/01
 Reference Datum City of Oakland Datum



BORING WELL HARDINGESE 54023.GPJ GEOL GDT 9/13/01



Harding ESE
 A MACTEC COMPANY

Well Construction Details and
 Log of Boring MW-2
 Housewives Marketplace
 801 Clay Street
 Oakland California

PLATE

5

DRAWN SS	JOB NUMBER 54023	APPROVED	DATE 9/01	REVISED DATE
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Equipment Mobile B 4500

Hole Diameter 2

Surface Elevation 33.41 ft

Date 5/1/01

Reference Datum City of Oakland Datum

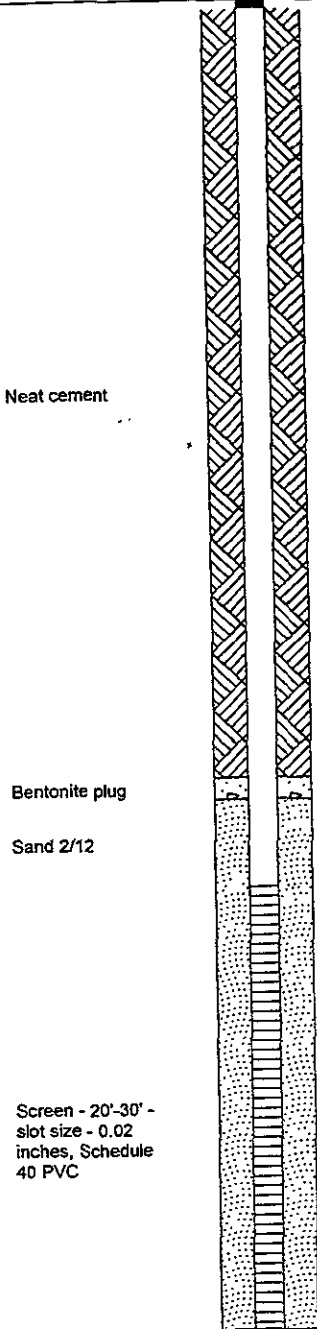
CHRISTY BOX

GROUND SURFACE

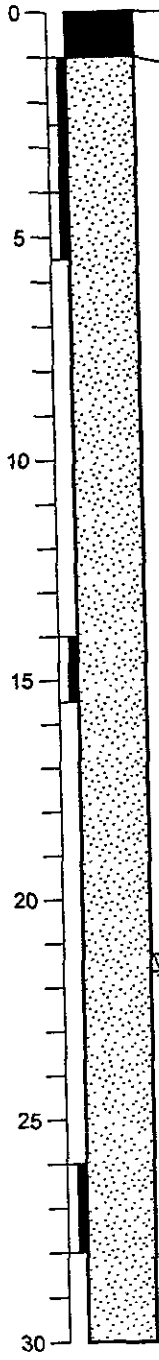
Blows/Foot

PID Reading (ppm)

Depth (ft.)
Sample



Blows/Foot	PID Reading (ppm)
17	No
22	No
>50	No
>50	No
>50	No



ASPHALT CONCRETE and Dark brown SAND (FILL)
Light brown SAND, (SP) dense, moist

Light brown SILTY SAND, dense, moist

5/3/2001

Light brown to gray FINE SAND, dense, saturated

Bottom of boring at 30 feet

BORING WELL HARDINGESE 54023.GPJ GEOL.GDT 9/25/01

Well Construction Details and Log of Boring MW-3

Housewives Marketplace
801 Clay Street
Oakland California

PLATE

6



Harding ESE
A MACTEC COMPANY

DRAWN
SS

JOB NUMBER
54023

APPROVED

DATE
9/01

REVISED DATE