

BP Amoco



October 27, 2000

Alameda County Health Care Services Department
Attention Mr. Scott Seery
1131 Harbor Bay Parkway, Room 250
Alameda, CA 94502-6577

RE: BP Oil Site No. 11117
7210 Bancroft Avenue (at 73rd)
Oakland, CA

Dear Mr. Seery:

This letter transmits the *Potential Receptor Survey, Expanded Site Plan and Well Search* prepared by Alisto Engineering Group on behalf of BP.

Please give me a call at (425) 251-0689 if you have any comments or questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Hooton".

Scott Hooton

attachments

cc: site file
D. Camille - Tosco (w/attachments)
Bancroft Oakland Investment Company, c/o SB Management Corporation, Attention Ms.
K. R. Stimson, 422 North Camden Drive, STE#1070, Beverly Hills, CA 90210
(w/attachments)
Khaled Rahman - Cambria (w/attachment)

Scott T. Hooton
Portfolio Manager

BP Exploration & Oil Inc.
295 SW 41st Street
Bldg. 13, Ste. "N"
Renton, Washington 98055

Phone: (425) 251-0689
Fax: 425-251-0736
Internet: hootonst@bp.com

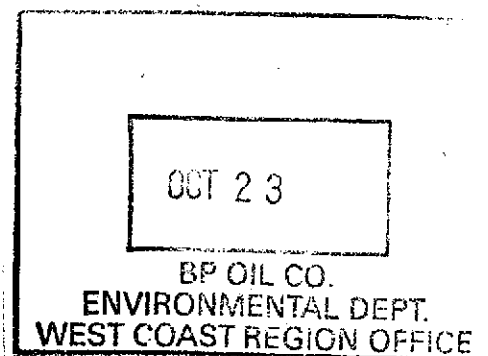
A BP Amoco Group Company



ALISTO ENGINEERING GROUP

October 19, 2000

Mr. Scott Hooton
Environmental Resources Management
BP Oil Company
295 S.W. 41st Street
Building 13, Suite N
Renton, Washington 98055



10-018-08-05

Subject: Potential Receptor Survey, Expanded Site Plan and Well Search
BP Oil Company Service Station No. 11117
7210 Bancroft Avenue
Oakland, California

Dear Mr. Hooton:

Alisto Engineering Group is pleased to submit the completed BP Oil Potential Receptor Survey, the expanded site plan and utility map, and the results of the well search to identify wells in the vicinity of BP Oil Company Service Station No. 11117, 7210 Bancroft Avenue, Oakland, California.

A review of the files of the State of California Department of Water Resources (DWR) was performed to identify all wells within a one-half-mile radius of the site. The results of the well search reveal that there are 17 wells other than onsite monitoring wells. Of these, 11 are offsite monitoring wells, four are cathodic protection wells, one is an industrial well, and one is an irrigation well. No water supply wells were identified from review of the DWR files.

Attached for your use are the following:

- The completed Potential Receptor Survey
- Expanded Site Plan and Utility Map showing the locations of nearby offsite properties and structures, including the locations of underground utilities
- Table presenting available property addresses and owners by assessor's parcel number
- Well Location Map
- Well Survey Summary Table
- Water Well Drillers Reports

F:\00\10-018-08-05 letter

Mr. Scott Hooton
October 19, 2000
Page 2

Please call if you have questions or comments.

Sincerely,

ALISTO ENGINEERING GROUP

A handwritten signature in cursive script, appearing to read "Brady Nagle".

Brady Nagle
Project Manager

Enclosures

Potential Receptor SurveySite # 11117

Site # 11117
 Address 7210 Bancroft Ave.
 City/State Oakland, CA
 County Alameda
 Quadrangle Latitude 37° 45' 59"
 Longitude 122° 10' 33"

Signature of ~~Inspector~~ William A. Bin
 Company: Alisto Engineering Group
 Date: 4/18/00

1. Potential Receptors

Provide Information for the following potential receptors	Yes/ No	Field Verify	Date Verify	Distance	Direction	Depth
	Y/N			Complete as appropriate		
Is a basement or subsurface foundation within 100 feet of the source or source area?	N	Y	4/18/00	NA	NA	
Is a school within 1000 feet of the source or source area?	Y	Y	4/18/00	500 FT	SW	
Is a storm sewer within 50 feet of the source or source area?	Y	Y	4/18/00	30 FT	S	Unknown
Is a sanitary sewer within 50 feet of the source or source area?	Y	Y	4/18/00	40 FT	S	Unknown
Is a septic system leach field within 50 feet of the source or source area?	N	Y	4/18/00	NA	NA	
Is a water line main within 50 feet of source or source area?	Y	Y	4/18/00	50 FT	W	Unknown
Is a natural gas line main within 50 feet of the source or source area?	N	Y	4/18/00	NA	NA	NA
Is a buried telephone/television cable main within 50 feet of the source or source area?	Y	Y	4/18/00	40 FT	S	Unknown
Is a buried electrical cable main within 50 feet of source or source area?	Y	Y	4/18/00	40 FT	S	Unknown
Is a subway within 1000 feet of the source or source area?	N	Y	4/18/00	NA	NA	NA
Is the bedrock area prone to dissolution along joints or fractures within 100 feet of the source or source area?	N	Y	4/18/00			
Is there a fault or known fracture within 100 feet of the source or source area?	N	Y	4/18/00			

Potential Receptor Survey

Site # 11117

Source of information Site Visit, PG&E, Pacific Bell, EBMUD, Geologic Maps of Upper Cenozoic Deposits in Central California, 1993

Verified By William Bir Date 4/18/00

2. Sensitive Areas

Provide Information for the following potential receptors	Yes/No	Field Verify	Date Verify	If yes, give a brief explanation of classification		
	Y/N		Complete as appropriate			
Is this property classified as a sensitive area?	N	Y	4/18/00			

Source of information California Department of Fish and Game Website *

Verified By William Bir Date 4/18/00

3. Drinking Water Supply

Provide Information for the following potential receptors	Yes/No	Field Verify	Date Verify	Distance	Direction	Production Rate
	Y/N		Complete as appropriate			
Is a public water supply well within 3 miles of the source or source area?	N	Y	4/18/00			
Is a public water supply intake within 3 miles of the source or source area?	N	Y	4/18/00			
Is a private water supply well within 0.5 miles of the source or source area?	N	Y	4/18/00			

Source of information California Dept. of Water Resources **

Verified By William Bir Date 4/18/00

* California Department of Fish and Game Website; Habitat Conservation Division; Wetlands Inventory and Conservation Unit; View Maps; Wetland and Riparian Classification for Bay Area Region of California (urban areas listed as "other")

**Review of DWR Well Data Sheets from the Sacramento office.

Potential Receptor Survey

Site # 11117

4. Surface Water Body

Provide Information for the following potential receptors	Yes	No	If yes, provide the following information.	
	Check one		Complete as appropriate	
Are there surface waters located within 1000 feet of the property?		<input checked="" type="checkbox"/>	Name	
			Type	
			Distance from property	
			Direction from property	
			Name	
			Type	
			Distance from property	
			Direction from property	

Source of information USGS Oakland East Quad

Verified By William Pir Date 4/18/00

5. Describe type of local water supply:

Public Private

Supplier's Name East Bay Municipal Utilities District

Supplier's water supply source Mokelumne River

Water supply source distance and direction from property Approximately 150 Miles East

Intake distance and direction from property NA

Source of information EBMUD

Verified By William Pir Date 4/18/00

6. Aquifer Classification (include a brief explanation for classification)

Class I: Special Ground Waters, Irreplaceable Drinking Water Source or Ecologically Vital

Class II: Current or Potential Drinking Water Source

Class III: Not Potential Source of Drinking Water

Potential Receptor SurveySite # 11117Is this a sole source aquifer? Yes No Depth to top of aquifer: UnknownSource of information California Dept. of Water ResourcesVerified By William Bir Date 4/18/00**7. Describe monitoring wells, if any:**Number: 7Free Product: Yes No Well(s) MW-2, MW-4Source of information Alisto Engineering GroupVerified By William Bir Date 4/18/00**8.0 Relevant Ecological Receptors and Habitats****8.1 Property Characteristics**

Size of Property (acres)	→	0.48 Acres
% of property that is wooded	→	0%
Dominant tree type	→	NA
% of property that is scrub/shrub	→	2%
Dominant Vegetation	→	Ornamental Plants/Shrubs
% of property that is open land	→	0%
% of property that is grass area	→	0%
% of property that is agricultural crops	→	0%
% of property that is barren	→	0%
% of property that is commercial or industrial use including paved areas	→	98%

Source of information Site VisitVerified By William Bir Date 4/18/00

Potential Receptor Survey

Site # 11117

8.2 Fauna

List any fauna (e.g., mammals, birds, fish, reptiles) that are either observed or evidenced to be on property.	→	None
	→	
	→	
	→	
	→	
	→	
	→	
	→	

Source of information Site Visit

Verified By William Bir Date 4/18/00

8.3 Water Bodies on the Property

Identify the type of water body (e.g., river, creek, lake, stream)	→	None
Is water body naturally developed or man made?	→	NA
List the uses of the water body	→	NA
What is the source of the water for the water body	→	NA
What is the nature of the bottom of the water body (e.g., rocky or concrete bottom, drainage ways or impoundments)	→	NA
Describe the observed biota	→	NA

Source of information Site Visit

Verified By William Bir Date 4/18/00

Potential Receptor Survey

Site # 11117

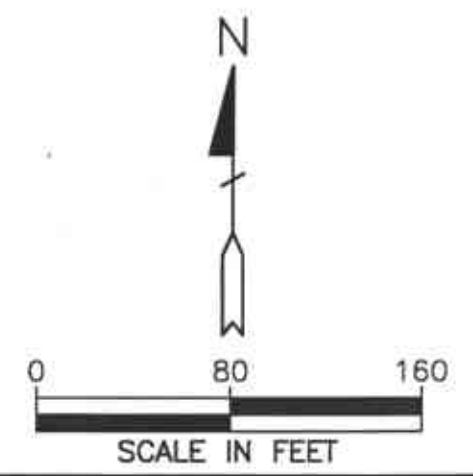
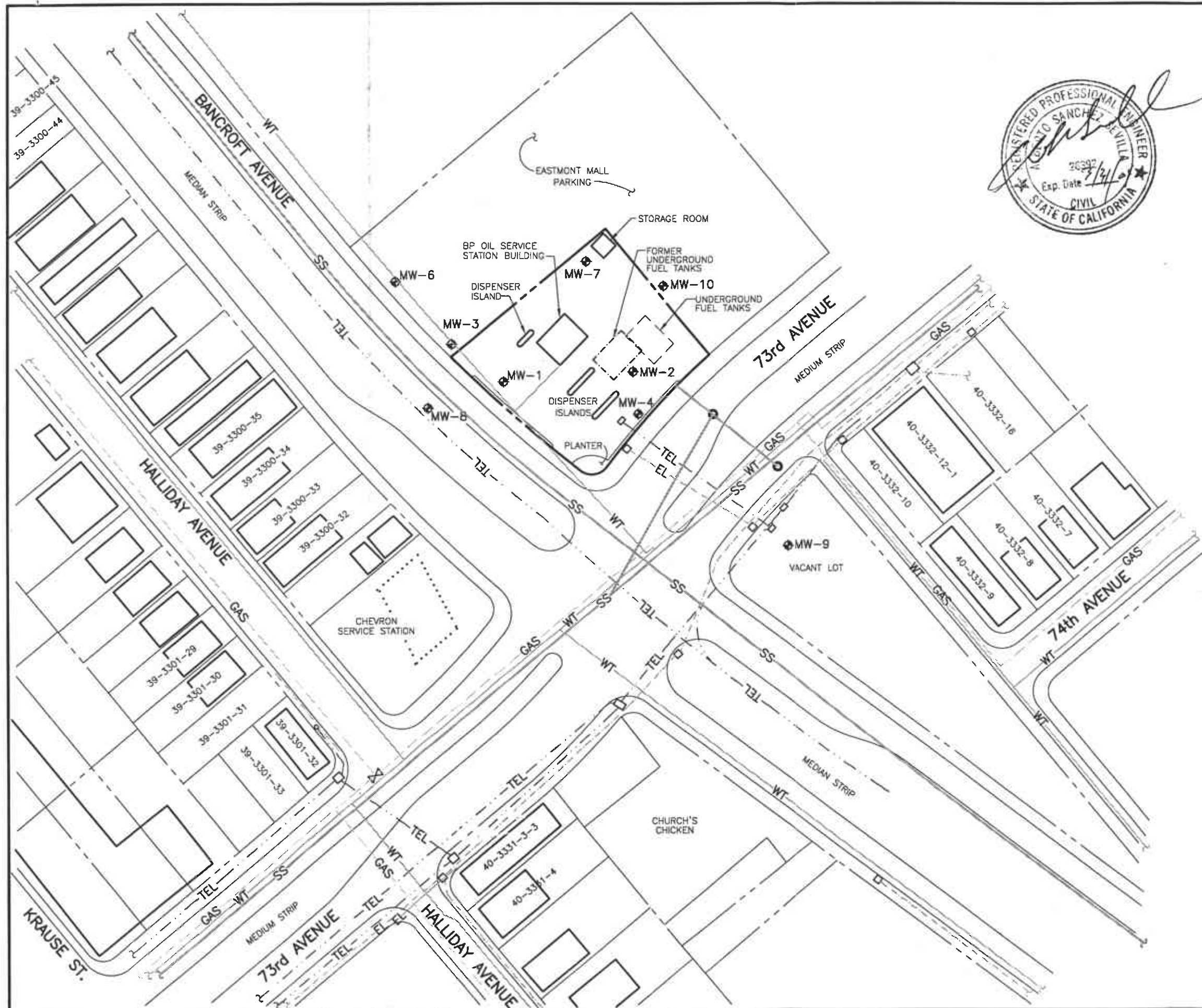
8.4 Wetlands

Are there any wetlands present on the property?	→	No
Describe the type of vegetation present	→	NA
Identify the source of water	→	NA
Is the wetlands influenced by tidal changes?	→	NA
Describe the observed biota	→	NA

Source of information Site Visit

Verified By William Bir Date 4/18/00





- LEGEND**
- ◆ GROUNDWATER MONITORING WELL
 - ? ASSESSOR'S PARCEL NUMBER
 - DROP INLET GRATE
 - MANHOLE
 - ABOVE/UNDERGROUND TRANSFORMER
 - ⊠ TELEVISION CABLE VAULT
 - SSCO ○ SANITARY SEWER CLEANOUT
 - FIRE HYDRANT
 - ⊗ VALVE
 - POWER POLE

- UNDERGROUND UTILITY LINES**
- SS — SANITARY SEWER PIPE
 - SD — STORM DRAIN PIPE
 - WT — WATER SERVICE PIPE
 - GAS — GAS PIPE
 - EL — ELECTRICAL LINE
 - TEL — TELEPHONE LINE
 - TCL — TELEVISION CABLE LINE
 - — UNKNOWN DESTINATION
 - — END OF PIPE
 - (?) INVERT ELEVATION RELATIVE TO BENCH MARK

NOTE:
 Location of utilities are approximate and based upon information provided at time of preparation. This map is not to be used for any construction or related activities.

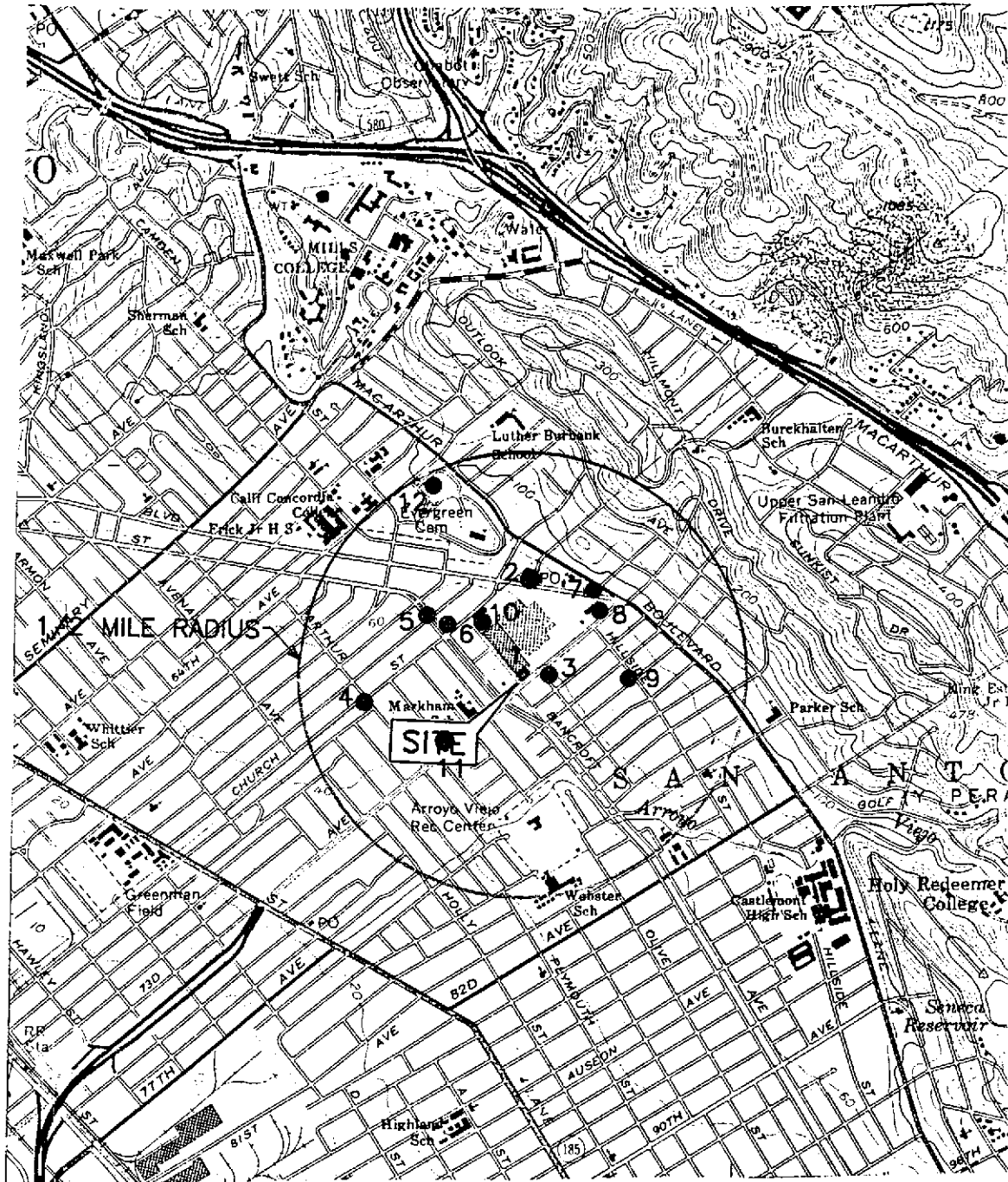
BP OIL SERVICE STATION NO. 11117
7210 BANCROFT AVENUE
OAKLAND, CALIFORNIA
PROJECT NO. 10-018



**ADJACENT PROPERTIES
BP OIL COMPANY SERVICE STATION NO. 11117
7210 BANCROFT AVENUE, OAKLAND, CALIFORNIA**

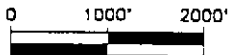
APN	Property Address	Owner
39-3300-30-3	7225 Bancroft Avenue Oakland, CA 94605	Chevron USA Inc. c/o: Bill Bossard 2 Annabel Lane San Ramon, CA 94583
39-3299-2-2	7000 Bancroft Avenue Oakland, CA 94605	Eastmont Town Center Company LLC 7200 Bancroft Avenue Oakland, CA 94605
39-3299-1-2	7000 Bancroft Avenue Oakland, CA 94605	Eastmont Town Center Compnay LLC 7200 Bancroft Avenue Oakland, CA 94605
39-3300-44	7000 Halliday Avenue Oakland, CA 94605	DeMetrio & Theresa Perez 7000 Halliday Avenue Oakland, CA 94605
39-3300-45	6946 Halliday Avenue Oakland, CA 94605	James & Hattie Lee 6231 Hilton Street Oakland, CA 94605
39-3300-46	6940 Halliday Avenue Oakland, CA 94605	Rufus & Martea Waller 6940 Halliday Avenue Oakland, CA 94605
39-3300-47	6932 Halliday Avenue Oakland, CA 94605	Jose L. Ayaquica & T. Socorro 6932 Halliday Avenue Oakland, CA 94605
39-3300-32	7212 Halliday Avenue Oakland, CA 94605	Louis Greer 1413 Harmon Street Berkeley, CA 94702
39-3300-30-3	7225 Bancroft Avenue Oakland, CA 94605	Chevron USA Incorporated c/o: Bill Bossard 2 Annabel Lane San Ramon, CA 94583
39-3300-33	7206 Halliday Avenue Oakland, CA 94605	Darnell McGowan 1530 Filbert Street Oakland, CA 94607
39-3300-34	7200 Halliday Avenue Oakland, CA 94605	Bankers Trust Company c/o: RSD Department 505 South Main Street Orange, CA 92868
39-3300-35	7122 Halliday Avenue Oakland, CA 94605	Merle E. Smith & Olga Edsman P.O. Box 43234 Oakland, CA 94624
40-3332-10	7306 Bancroft Avenue Oakland, CA 94605	Patrick Realty Corporation c/o: Eller Media Company 1601 Maritime Street Oakland, CA 94607
40-3332-12-1	2510 73rd Avenue Oakland, CA 94605	Paul K. & Whechin Law 2510 73rd Avenue Oakland, CA 94605

40-3332-16	2516 73rd Avenue Oakland, CA 94605	Pacific Gas & Electric Company c/o: B.E. Nelson/DIR-Taxes P.O. Box 770000 TX Dept. B8E San Francisco, CA 94177
40-3332-9	2501 74th Avenue Oakland, CA 94605	Jane L. Perkinson 6335 Cooper Avenue Fontana, CA 92336
40-3332-8	2507 74th Avenue Oakland, CA 94605	Willie A. Hampton 2507 74th Avenue Oakland, CA 94605
40-3332-7	2515 74th Avenue Oakland, CA 94605	John F. & Callie Hodges 10782 Hillman Street Oakland, CA 94605
40-3333-12-5	7301 Bancroft Avenue Oakland, CA 94605	Paulette R. Wood c/o: Ad Valorem Tax #182 P.O. Box BH001 San Antonio, TX 78201
40-3333-9-5	7301 Bancroft Avenue Oakland, CA 94605	Paulette R. Wood c/o: Ad Valorem Tax #182 P.O. Box BH001 San Antonio, TX 78201
39-3301-32	2387 73rd Avenue Oakland, CA 94605	Chhim & Kimberly B. 2570 61st Avenue Oakland, CA 94605
39-3301-33	2381 73rd Avenue Oakland, CA 94605	Sidney & Carrie Lawrence 2381 73rd Avenue Oakland, CA 94605
39-3301-31	7227 Halliday Avenue Oakland, CA 94605	Martin & Rafaela Ruiz 2238 62nd Avenue Oakland, CA 94605
39-3301-30	7221 Halliday Avenue Oakland, CA 94605	Lenora L. Johnson 7221 Halliday Avenue Oakland, CA 94605
39-3301-29	7215 Halliday Avenue Oakland, CA 94605	Cynthia Turner 7215 Halliday Avenue Oakland, CA 94605
39-3301-35	7220 Krause Avenue Oakland, CA 94605	Oakland Unified School District c/o: Property Manager 1025 2nd Avenue Oakland, CA 94606
40-3331-3-3	Halliday Avenue Oakland, CA 94621	City of Oakland 505 14th Street Oakland, CA 94612
40-3331-4	7314 Halliday Avenue Oakland, CA 94605	Danilo Mayorga 3857 Sheffield Court Danville, CA 94506
39-3291-19	6929 Foothill Boulevard Oakland, CA 94605	Eastmont Town Center Company LLC 7200 Bancroft Avenue Oakland, CA 94605



● WELL LOCATION

SOURCE:
USGS MAP, OAKLAND EAST QUADRANGLE,
CALIFORNIA, 7.5 MINUTE SERIES, 1959.
PHOTOREVISED 1980.



WELL LOCATION MAP

BP OIL SERVICE STATION NO. 11117
7210 BANCROFT AVENUE
OAKLAND, CALIFORNIA
PROJECT NO. 10-018



ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

WELL SURVEY
BP Oil Co. Service Station No. 11117
7210 Bancroft Avenue
Oakland, California

Allisto Project No. 10-018

COUNTY\STATE WELL NO.	ALISTO MAP REFERENCE NO.	OTHER WELL NO.	WELL OWNER	WELL DEPTH (feet)	SEAL DEPTH (feet)	WELL USE	STATUS
2S/13W10Q8	1	MW-1	BP Oil Company 2868 Prospect Park Drive Rancho Cordova, CA 95670	40	19	Monitoring	Active
2S/3W10Q9	1	MW-2	BP Oil Company 2868 Prospect Park Drive Rancho Cordova, CA 95670	40	18	Monitoring	Active
2S/3W10Q3	1	MW-3	Topa Savings Bank 1800 Avenue of the Stars Los Angeles, CA 90067	45	25	Test Well	Active
2S/3W10Q09	1	MW-4	BP Oil Company 16400 South Center Pkwy, Ste. 300 Tukwila, WA 98188	40	18	Monitoring	Active
2S/3W10Q10	1	MW-6	BP Oil Company 16400 South Center Pkwy, Ste. 300 Tukwila, WA 98188	40	18	Monitoring	Active
2S/3W10Q1	2		Chevrolet-Oakland Div. of GM Foothill Boulevard and 69th Avenue Oakland, CA	400	0	Industrial	Unknown
2S/3W10Q	3	3350B	East Bay M.U.D. 2139 Adeline Street Oakland, CA 94607	65	33	Cathodic Protection	Active
2S/3W10P1	4	1-1253	Pacific Gas & Electric 4801 Oakport Street Oakland, CA 94601	120	120	Cathodic Protection	Active
2S/3W10L1	5		Exxon Oil USA	50	20	Other/ Monitoring	Unknown
2S/3W10K1	6	MW-2	Topa Savings Bank 1800 Avenue of the Stars Los Angeles, CA 90067	35	15	Test Well	Active
2S/3W10J1	7	MW-4	Topa Savings Bank 1800 Avenue of the Stars Los Angeles, CA 90067	25	8	Test Well	Active

WELL SURVEY
BP Oil Co. Service Station No. 11117
7210 Bancroft Avenue
Oakland, California

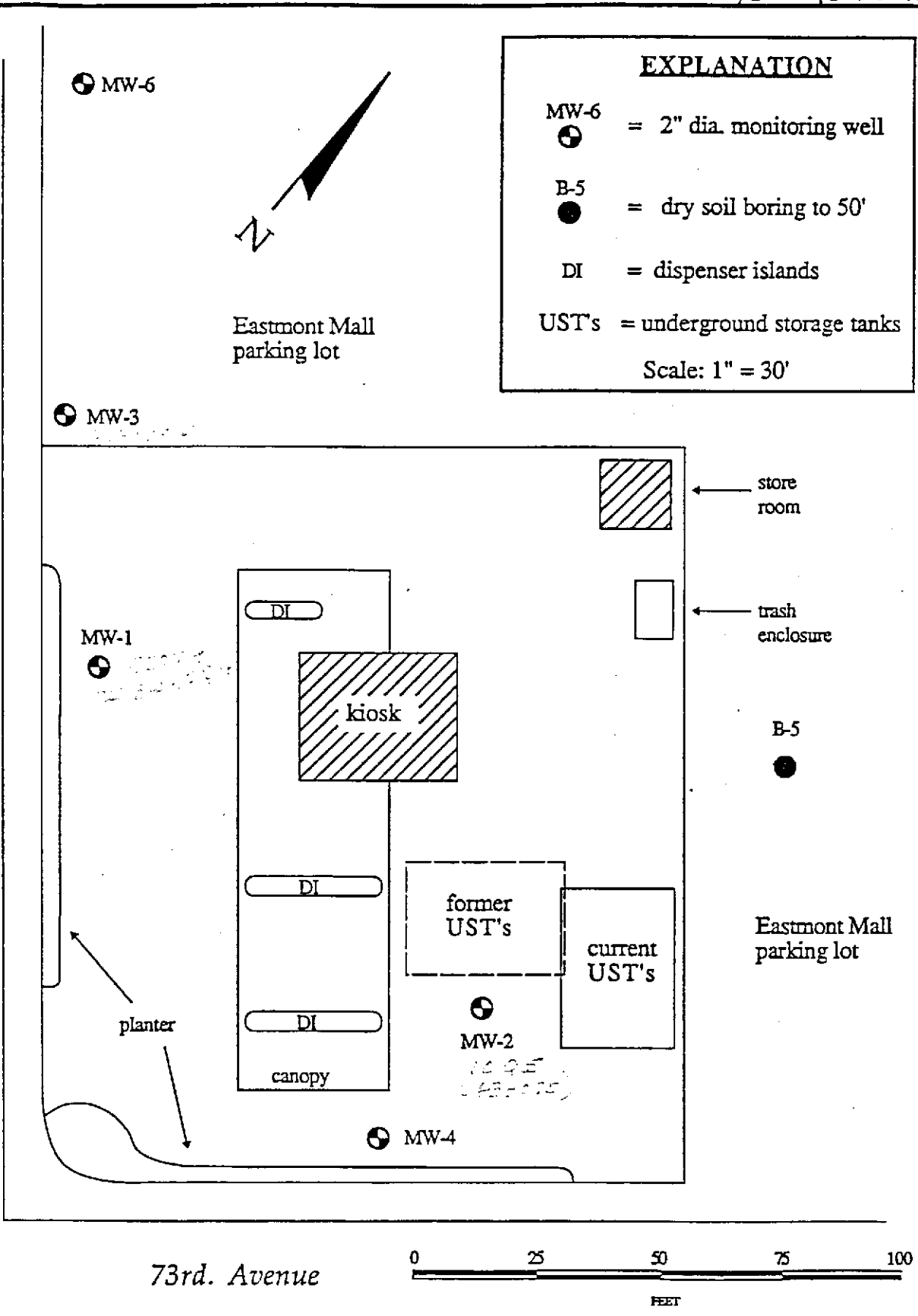
Allsto Project No. 10-018

COUNTY\STATE WELL NO.	ALISTO MAP REFERENCE NO.	OTHER WELL NO.	WELL OWNER	WELL DEPTH (feet)	SEAL DEPTH (feet)	WELL USE	STATUS
2S/3W10J4	8		City of Oakland 7100 Foothill Boulevard Oakland, CA 94605	25	9	Monitoring	Active
2S/3W10R1	9		Pacific Gas & Electric 4801 Oakport Street Oakland, CA	120	Unknown	Cathodic Protection	Active
2S/3W10Q11-15	10	MW-5	Eastmont Mall One Eastmont Mall Oakland, CA 94605	50	28	Monitoring	Active
2S/3W10Q11-15	10	MW-6	Eastmont Mall One Eastmont Mall Oakland, CA 94605	50	28	Monitoring	Active
2S/3W10Q11-15	10	MW-7	Eastmont Mall One Eastmont Mall Oakland, CA 94605	50	23	Monitoring	Active
2S/3W10Q11-15	10	MW-8	Eastmont Mall One Eastmont Mall Oakland, CA 94605	49	25	Monitoring	Active
2S/3W10Q11-15	10	MW-9	Eastmont Mall One Eastmont Mall Oakland, CA 94605	50	33	Monitoring	Active
2S/3W-10J2	10	DM-1	J. C. Penny's	28	10	Monitoring	Active
2S/3W-10J3	10	DM-2	J. C. Penny's	28	8	Monitoring	Active
2S/3W15C1	11		East Bay Municipal Utilities P.O. Box 24055 Oakland, CA 94623	65	53	Cathodic Protection	Unknown
2S/3W10G1	12		Evergreen Cemetery 64th Ave. Oakland, CA	440	0	Irrigation	Unknown

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED



**HYDRO-
ENVIRONMENTAL
TECHNOLOGIES, INC.**

SITE PLAN
 BP Service Station No. 11117
 7210 Bancroft Avenue
 Oakland, California

Job No.
 9-029
 Figure
 2

25/3W 1008-

SITE/LOCATION 7210 Bancroft Avenue, Oakland, CA		BEGUN 12/27/91	BORING DIAMETER 8 Inches	ANGLE/BEARING 90 Degrees	BORING NO MW-1
DRILLING CONTRACTOR Bayland Drilling		COMPLETED 12/27/91	FIRST ENCOUNTERED WATER DEPTH 28 Feet		
OPERATOR Jim Schmidt		LOGGED BY T. Lane	STATIC WATER DEPTH/DATE 29 Feet		
DRILL MAKE & MODEL CME 75		SAMPLING METHOD California modified split spoon			BOTTOM OF BORING 40 Feet
WELL MATERIAL 2" SCH 40 PVC	SLOT SIZE 0.020"	FILTER PACK #2/16	WELL SEAL Neat cement over bentonite		WELL NO. MW-1

FIELD HEADSPACE*	DEPTH	SAMPLE	WATER LEVEL	WELL CONSTR.	GRAPHIC LOG	MATERIAL CLASSIFICATION & PHYSICAL DESCRIPTION
	1					ASPHALT
	2					BASEROCK
	3					Silty CLAY (CL) dark brown, low plasticity, 20-25% silt, trace fine to coarse sand, trace pebble gravel, dry.
	4					
0.0	5					Sandy CLAY (CL) yellow-brown, low plasticity, 30-35% fine sand, trace pebble gravel, trace rootlets, moist.
	6					
	7					Gravelly SAND (SW) med. brown, well graded, medium to coarse grained, 15% sub-rounded pebble gravel, moist.
	8					
0.0	9					Silty CLAY (CL) medium brown, low plasticity, 15-20% silt, trace medium sand, damp.
	10					
	11					Sandy CLAY (CL) medium brown, low plasticity, 35-40% fine sand, trace rounded pebble gravel, wet.
0.0	12					
	13					Silty CLAY (CL) medium yellow-brown, low plasticity, 15-20% silt, trace angular pebble gravel, trace charcoal fragments, wet.
	14					
0.0	15					Gravelly CLAY (CL) medium brown, low plasticity, 10-15% pebble gravel, damp.
	16					
	17					
0.0	18					
	19					
	20					
	21					
	22					
	23					
0.0	24					
	25					
	26					
	27					
	28					
* PID (ppm)	29					
	30					

HYDRO- ENVIRONMENTAL TECHNOLOGIES, INC.	SOIL BORING LOG MW-1 AND WELL CONSTRUCTION MW-1	PLATE A-2
	BP Oil Station No. 11117 7210 Bancroft Avenue Oakland, CA	JOB NO. 9-029
DATE:		
APPROVED BY: Frederick G. Moss, PE No. 35162		

4330-4

25/3W10Q8

SITE/LOCATION 7210 Bancroft Avenue, Oakland, CA		BEGUN 12/27/91	BORING DIAMETER 8 Inches	ANGLE/BEARING 90 Degrees	BORING NO MW-1
DRILLING CONTRACTOR Bayland Drilling		COMPLETED 12/27/91	FIRST ENCOUNTERED WATER DEPTH 28 Feet		
OPERATOR Tom Schmidt		LOGGED BY T. Lane	STATIC WATER DEPTH/DATE 29 Feet		
DRILL MAKE & MODEL CME 75		SAMPLING METHOD California modified split spoon			BOTTOM OF BORING 40 Feet
WELL MATERIAL 2" SCH 40 PVC	SLOT SIZE 0.020"	FILTER PACK #2/16	WELL SEAL Neat cement over bentonite		WELL NO. MW-1

FIELD HEADSPACE *	DEPTH	SAMPLE	WATER LEVEL	WELL CONSTR.	GRAPHIC LOG	MATERIAL CLASSIFICATION & PHYSICAL DESCRIPTION
	31					Gravelly CLAY (CL) medium brown, low plasticity, 20-30% sub-rounded coarse gravel, wet.
	32					
	33					
	34					
	35					
	36					
	37					
	38					
	39					
	40					
	41					
	42					
	43					
	44					
	45					
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	54					
	55					
	56					
	57					
	58					
	59					
	60					

* PID (ppm)

HYDRO-ENVIRONMENTAL TECHNOLOGIES, INC. DATE: APPROVED BY: Frederick G. Moss, PE No. 35162	SOIL BORING LOG MW-1 AND WELL CONSTRUCTION MW-1 BP Oil Station No. 11117 7210 Bancroft Avenue Oakland, CA	PLATE A-3
		JOB NO. 9-029

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

25/3W 10Q9

SITE/LOCATION 7210 Bancroft Avenue, Oakland, CA		BEGUN 12/27/91	BORING DIAMETER 8 Inches	ANGLE/BEARING 90 Degrees	BORING NO MW-2
DRILLING CONTRACTOR Bavland Drilling		COMPLETED 12/27/91	FIRST ENCOUNTERED WATER DEPTH 30 Feet		
DRILLER John Schmidt		LOGGED BY T. Lane	STATIC WATER DEPTH/DATE 30 Feet		
DRILL MAKE & MODEL CME 75		SAMPLING METHOD California modified split spoon			BOTTOM OF BORING 40 Feet
WELL MATERIAL 2" SCH 40 PVC	SLOT SIZE 0.020"	FILTER PACK #2/16	WELL SEAL Neat cement over bentonite		WELL NO. MW-2

FIELD HEADSPACE *	DEPTH	SAMPLE	WATER LEVEL	WELL CONSTR.	GRAPHIC LOG	MATERIAL CLASSIFICATION & PHYSICAL DESCRIPTION
	1					ASPHALT
	2					BASEROCK
	3					Silty CLAY (CL) dark brown, low plasticity, 20-25% silt, trace fine to coarse sand, trace pebble gravel, dry.
	4					
0.0	5					Sandy CLAY (CL) yellow-brown, low plasticity, 30-35% fine sand, trace pebble gravel, trace rootlets, moist.
	6					
	7					Gravelly SAND (SW) med. brown, well graded, medium to coarse grained, 15% sub-rounded pebble gravel, moist.
	8					
0.0	9					Silty CLAY (CL) medium brown, low plasticity, 15-20% silt, trace medium sand, damp.
	10					
	11					
	12					
0.0	13					Sandy CLAY (CL) medium brown, low plasticity, 35-40% fine sand, trace rounded pebble gravel, wet.
	14					
	15					Silty CLAY (CL) medium yellow-brown, low plasticity, 15-20% silt, trace angular pebble gravel, trace charcoal fragments, wet.
	16					
0.0	17					
	18					
	19					
0.0	20					Gravelly SAND (SW) medium brown, well graded coarse sand, 10-15% well rounded pebble gravel, wet.
	21					
	22					
	23					
0.0	24					Gravelly CLAY (CL) medium brown, low plasticity, 10-15% pebble gravel, damp.
	25					
	26					
	27					
	28					
	29					
	30					

HYDRO-ENVIRONMENTAL TECHNOLOGIES, INC.

DATE:

APPROVED BY: Frederick G. Moss, PE No. 35162

SOIL BORING LOG MW-2 AND WELL CONSTRUCTION MW-2

BP Oil Station No. 11117
7210 Bancroft Avenue
Oakland, CA

PLATE
A-4

JOB NO.
9-029

25/3w1009-

SITE/LOCATION 7210 Bancroft Avenue, Oakland, CA		BEGUN 12/27/91	BORING DIAMETER 8 Inches	ANGLE/BEARING 90 Degrees	BORING NO MW-2
DRILLING CONTRACTOR Portland Drilling		COMPLETED 12/27/91	FIRST ENCOUNTERED WATER DEPTH 30 Feet		
DRILLER Tom Schmidt		LOGGED BY T. Lane	STATIC WATER DEPTH/DATE 30 Feet		
DRILL MAKE & MODEL CME 75		SAMPLING METHOD California modified split spoon		BOTTOM OF BORING 40 Feet	
WELL MATERIAL 2" SCH 40 PVC	SLOT SIZE 0.020"	FILTER PACK #2/16	WELL SEAL Neat cement over bentonite		WELL NO. MW-2

FIELD HEADSPACE *	DEPTH	SAMPLE	WATER LEVEL	WELL CONSTR.	GRAPHIC LOG	MATERIAL CLASSIFICATION & PHYSICAL DESCRIPTION
	31					Gravelly CLAY (CL) medium brown, low plasticity, 20-30% sub-rounded coarse gravel, wet.
	32					
	33					
	34					
	35					
	36					
	37					
	38					
	39					
	40					
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	60					




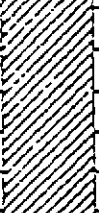
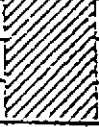


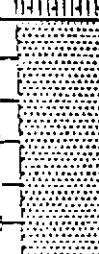
* PID
(ppm)

HYDRO- ENVIRONMENTAL TECHNOLOGIES, INC.	SOIL BORING LOG MW-2 AND WELL CONSTRUCTION MW-2	PLATE A-5
	BP Oil Station No. 11117 7210 Bancroft Avenue Oakland, CA	JOB NO. 9-029
DATE:		
APPROVED BY: Frederick G. Moss, PE No. 35162		

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

 557 Center Avenue, Suite 350 Martinez, California 94553 415-372-3637				LOG OF BORING NO. MW-3 PROJECT NO: 02-401-002 CLIENT: TOPA SITE LOCATION: EASTMONT MALL OAKLAND, CA. BORING LOCATION: SEE FIG 1 ORDER: GREGG DRILLING & TESTING LOGGED BY: J. BRYSON SUPERVISOR: S. WICKHAM <i>Susan Wickham</i>		PAGE 1 of 2 DATE: 12/6/89 REF. ELEV. - METHOD: HOLLOW STEM AUGER HOLE DIA: 8"	
DEPTH (FT)	GRAPHIC LOG	BLOW/FT VAPOR (PPH)	SAMPLE TYPE AND DEPTH	UNIFIED SOIL CLASSIFICATION	DESCRIPTION	WELL CONSTRUCTION	
0					3" Asphalt @ Surface		
0-2				CL	CLAY, black-gray, stiff, slightly moist, some silt, no odor.		
2-4			ND RING @ 5'	CL	SILTY CLAY, brown, stiff, slightly moist, trace of gravel, no odor.		
4-10			ND RING @ 10'	CL	As above, some medium sand to coarse gravel.		
10-14			ND RING @ 15'	SM	SILTY SAND, brown, some clay & gravel, medium to coarse grained, medium dense, slightly moist, no odor.		
14-20			ND RING @ 20'	SM	As above.		
20-24			ND RING @ 25'	SM	SAND, brown with silt and small gravel, moist, medium dense, no odor.		
24-28							

Completed By:
HUNTER ENVIRONMENTAL SERVICES, INC.
 December 6, 1989

**SOIL BORING LOG MW-3
 AND
 WELL CONSTRUCTION MW-3**
 BP Oil Station No. 1117
 7210 Bancroft Avenue
 Oakland, CA

PLATE
A-6
 JOB NO.
9-029



597 Center Avenue, Suite 350
 Martinez, California 94553
 415-372-3637

LOG OF BORING NO. MW-3 PAGE 2 of 2
 PROJECT NO: 02-401-002 DATE: 12/6/89
 CLIENT: TOPA REF. ELEV. -
 SITE LOCATION: EASTMONT MALL METHOD: HOLLOW STEM
 OAKLAND, CA. AUGER
 BORING LOCATION: SEE FIG 1 HOLE DIA: 8"
 DRILLER: GREGG DRILLING & TESTING
 LOGGED BY: J. BRYSON
 SUPERVISOR: S. WICKHAM *S. Wickham* PG 3351
 DESCRIPTION

DEPTH (FT)	GRAPHIC LOG	BLOW/FT	VAPOR (PPM)	SAMPLE TYPE AND DEPTH	UNSATURATED SOIL CLASSIFICATION	WELL CONSTRUCTION
29				NO RING @ 30' SW	As above.	
31						
33						
35				NO RING @ 35' SW	As above, moist.	
37					▽	
39					As above, saturated.	
41						
43						
45					CLAY, silty, light brown, firm, slightly moist, no odor.	
47					TOTAL DEPTH - 45'	
49					Well Construction: 2" (0.02") slotted PVC 45'-30'; blank 2" PVC 30'-0'; #3 lenscap sand 45'-25'; bentonite 25'-3'; cement 3'-0.	
51						
53						
55						
57						

Completed By:
HUNTER ENVIRONMENTAL SERVICES, INC.
 December 6, 1989

SOIL BORING LOG MW-3 AND WELL CONSTRUCTION MW-3
 BP Oil Station No. 11117
 7210 Bancroft Avenue
 Oakland, CA

PLATE
A-7
 JOB NO.
9-029

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

433083

28/3W 10Q 09

SITE/LOCATION 7210 Bancroft Avenue, Oakland, CA		BEGUN 7/22/92	BORING DIAMETER 8 Inches	ANGLE/BEARING 90 Degrees	BORING NO MW-4
DRILLING CONTRACTOR Bayland Drilling		COMPLETED 7/22/92	FIRST ENCOUNTERED WATER DEPTH 31 Feet		
OPERATOR Frank Bartolovich		LOGGED BY T. Ramirez	STATIC WATER DEPTH/DATE 32.5 Feet		
DRILL MAKE & MODEL CME 55		SAMPLING METHOD California modified split spoon			BOTTOM OF BORING 40 Feet
WELL MATERIAL 2" SCH 40 PVC		SLOT SIZE 0.020"	FILTER PACK #2/12	WELL SEAL Neat cement with 5% bentonite over hydrated pellets	
				WELL NO. MW-4	

BLOWS/FOOT	FIELD HEADSPACE*	DEPTH	SAMPLE	WATER LEVEL	WELL CONSTR.	GRAPHIC LOG	MATERIAL CLASSIFICATION & PHYSICAL DESCRIPTION
		1					ASPHALT
		2					BASEROCK
		3					CLAY (CL) medium brown, moderate plasticity, 5-10% medium to coarse sand, dry.
7		4					
24	462	5					Sandy CLAY (CL) light brown, low plasticity, 40% fine to medium angular sand, dry.
24		6					
		7					Sandy CLAY (CL) greenish-brown, moderate plasticity, 30% fine sub-angular to sub-rounded sand, 5-10% silt content, dry.
4		8					
12	106	9					
23		10					Sandy CLAY (CL) medium brown, low plasticity, 25-30% fine to coarse angular to sub-rounded sand, occasional gravel clast up to 5cm, dry.
		11					
		12					
13		13					
14	464	14					Sandy CLAY (CL) interbedded light brown and dark brown layers. Dark brown sandy clay is 30% fine to medium sand, with moderate plasticity. Light brown sandy clay is 20% fine sand, 10% silt content, with low plasticity. Both are damp, with increasing moisture, clay content and plasticity with depth.
22		15					
		16					
6		17					
10	442	18					
13		19					Clayey SAND (SC) medium brown, fine to medium sub-rounded to rounded sand, 5% gravel with clasts up to 3cm, 15% clay content, moist.
		20					
		21					
3		22					
13	673	23					
21		24					
		25					
		26					
		27					
		28					
		29					
		30					

HYDRO-ENVIRONMENTAL TECHNOLOGIES, INC.

SOIL BORING LOG MW-4 AND WELL CONSTRUCTION MW-4

BP Oil Station No. 11117
7210 Bancroft Avenue
Oakland, CA

PLATE A-8
JOB NO. 9-029

DATE: _____

APPROVED BY: Frederick G. Moss, PE No. 35162

2S/3W 10Q 09

435015

SITE/LOCATION 7210 Bancroft Avenue, Oakland, CA		BEGUN 7/22/92	BORING DIAMETER 8 Inches	ANGLE/BEARING 90 Degrees	BORING NO MW-4		
DRILLING CONTRACTOR Dayland Drilling		COMPLETED 7/22/92	FIRST ENCOUNTERED WATER DEPTH 31 Feet				
OPERATOR Frank Bartolovich		LOGGED BY T. Ramirez	STATIC WATER DEPTH/DATE 32.5 Feet				
DRILL MAKE & MODEL CME 55		SAMPLING METHOD California modified split spoon			BOTTOM OF BORING 40 Feet		
WELL MATERIAL 2" SCH 40 PVC		SLOT SIZE 0.020"	FILTER PACK #2/12	WELL SEAL Neat cement with 5% bentonite over hydrated pellets			
				WELL NO. MW-4			
BLOWS/FOOT	FIELD HEAD-SPACE *	DEPTH	SAMPLE	WATER LEVEL	WELL CONSTR.	GRAPHIC LOG	MATERIAL CLASSIFICATION & PHYSICAL DESCRIPTION
13 50/6	691	31		▽			Sandy CLAY (CL) medium brown, low plasticity, 30% fine to coarse, sub-angular to rounded sand, occasional gravel clast up to 2cm, moist to wet.
		32		▽			CLAY (CL) dark brown, high plasticity, wet.
6 8 9		33					Silty SAND (SM) grey to light brown, fine to medium sand, 10% gravel up to 5cm, sub-rounded to rounded clasts, 20% silt content, saturated.
		34					CLAY (CL) med. brown, moderate plasticity, approx. 5% rounded medium sand, wet.
		35					
		36					
		37					
		38					
		39					
3 6 8		40					
		41					
		42					
		43					
		44					
		45					
		46					
		47					
		48					
		49					
		50					
		51					
		52					
		53					
		54					
		55					
		56					
		57					
		58					
		59					
		60					

*PID (ppm)

HYDRO-ENVIRONMENTAL TECHNOLOGIES, INC.

SOIL BORING LOG MW-4
AND
WELL CONSTRUCTION MW-4

BP Oil Station No. 11117
7210 Bancroft Avenue
Oakland, CA

PLATE
A-9

JOB NO.
9-029

DATE:

APPROVED BY: Frederick G. Moss, PE No. 35162

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

433372

25/3W 10Q 10

SITE/LOCATION 7210 Bancroft Avenue, Oakland, CA		BEGUN 7/23/92	BORING DIAMETER 8 Inches	ANGLE/BEARING 90 Degrees	BORING NO MW-6
DRILLING CONTRACTOR Bavland Drilling		COMPLETED 7/23/92	FIRST ENCOUNTERED WATER DEPTH 31.5 Feet		
DRILLER Kurt Voss		LOGGED BY T. Ramirez	STATIC WATER DEPTH/DATE 31.5 Feet		
DRILL MAKE & MODEL CME 75		SAMPLING METHOD California modified split spoon			BOTTOM OF BORING 40 Feet
WELL MATERIAL 2" SCH 40 PVC	SLOT SIZE 0.020"	FILTER PACK #2/12	WELL SEAL Neat cement with 5% bentonite over hydrated pellets		WELL NO. MW-6

BLOWS/FOOT	FIELD HEAD-SPACE*	DEPTH	SAMPLE	WATER LEVEL	WELL CONSTR.	GRAPHIC LOG	MATERIAL CLASSIFICATION & PHYSICAL DESCRIPTION
	* PD (ppm)	1					ASPHALT
		2					CLAY (CL) dark brown, high plasticity, 10% sub-angular to sub-rounded fine to medium sand, moist.
4		3					
6		4					Sandy CLAY (CL) dark brown, high plasticity, 25% fine to coarse sand with occasional gravel clasts up to 3cm, dry.
9	0.0	5					CLAY (CL) light brown, moderate plasticity, 5-10% fine sand, dry.
		6					
		7					
6		8					
9		9					
15	0.0	10					Sandy CLAY (SC) dark brown, high plasticity, 20% fine to coarse angular to sub-rounded sand, occasional gravel clasts up to 4cm, dry.
		11					
		12					
5		13					
	0.0	14					Sandy CLAY (CL) yellow brown, moderate plasticity, 20% fine to medium sand, 10% silt content, occasional gravel clasts up to 8cm, dry.
		15					
		16					
		17					
8		18					
12		19					Sandy CLAY (CL) light brown, moderate plasticity, 40% fine to coarse sand, occasional angular to sub-rounded gravel clasts up to 10 cm, moist.
15	0.0	20					
		21					
		22					
10		23					Sandy CLAY (CL) same as above except only 25% sand content.
13		24					
16	0.0	25					
		26					
		27					
		28					
9		29					Gravelly CLAY (CL) medium brown, 25% angular to sub-rounded gravel clasts up to 5cm, 20% fine to coarse sand, decrease gravel and sand content with depth, moist.
16		30					
20	0.0						

	SOIL BORING LOG MW-6 AND WELL CONSTRUCTION MW-6	PLATE A-12
	BP Oil Station No. 11117 7210 Bancroft Avenue Oakland, CA	JOB NO. 9-029
DATE:		
APPROVED BY: Frederick G. Moss, PE No. 35162		

SITE/LOCATION 7210 Bancroft Avenue, Oakland, CA		BEGUN 7/23/92	BORING DIAMETER 8 Inches	ANGLE/BEARING 90 Degrees	BORING NO MW-6
DRILLING CONTRACTOR Rayland Drilling		COMPLETED 7/23/92	FIRST ENCOUNTERED WATER DEPTH 31.5 Feet		
OPERATOR Kurt Voss		LOGGED BY T. Ramirez	STATIC WATER DEPTH/DATE 31.5 Feet		
DRILL MAKE & MODEL CME 75		SAMPLING METHOD California modified split spoon		BOTTOM OF BORING 40 Feet	
WELL MATERIAL 2" SCH 40 PVC	SLOT SIZE 0.020"	FILTER PACK #2/12	WELL SEAL Neat cement with 5% bentonite over hydrated pellets		WELL NO. MW-6

BLOWS/ FOOT	FIELD HEAD- SPACE*	DEPTH	SAMPLE	WATER LEVEL	WELL CONSTR.	GRAPHIC LOG	MATERIAL CLASSIFICATION & PHYSICAL DESCRIPTION
4		31					
12		32					Silty CLAY (CL) yellow-brown, 30% silt content, 10% sub-angular to sub-rounded gravel clasts up to 10cm, approx. 5% medium to coarse sand, increase sand content with depth, wet.
20		33					
		34					
		35					
		36					
		37					Sandy GRAVEL (GP) light brown, gravel clasts up to 7cm, 30% fine to coarse sand, 10% silt content, saturated.
5		38					Silty SAND (SM) light grey, fine to medium sand with <5% coarse sand, 35% silt content, saturated.
9		39					
15		40					
		41					
		42					
		43					
		44					
		45					
		46					
		47					
		48					
		49					
		50					
		51					
		52					
		53					
		54					
		55					
		56					
		57					
		58					
		59					
		60					

*PID (ppm)

HYDR- ENVIRONMENTAL TECHNOLOGIES, INC.	SOIL BORING LOG MW-6 AND WELL CONSTRUCTION MW-6	PLATE A-13
	BP Oil Station No. 11117 7210 Bancroft Avenue Oakland, CA	JOB NO. 9-029
DATE:		
APPROVED BY: Frederick G. Moss, PE No. 35162		

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

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STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

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STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

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STATE OF CALIFORNIA DWR
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STATE OF CALIFORNIA DWR
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(WELL LOGS)

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STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

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STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

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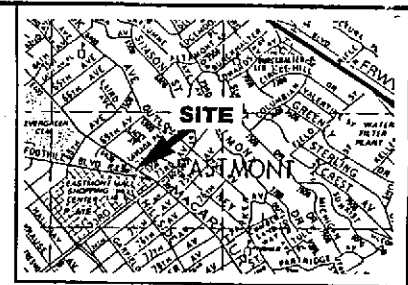
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WELL COMPLETION REPORT
(WELL LOGS)

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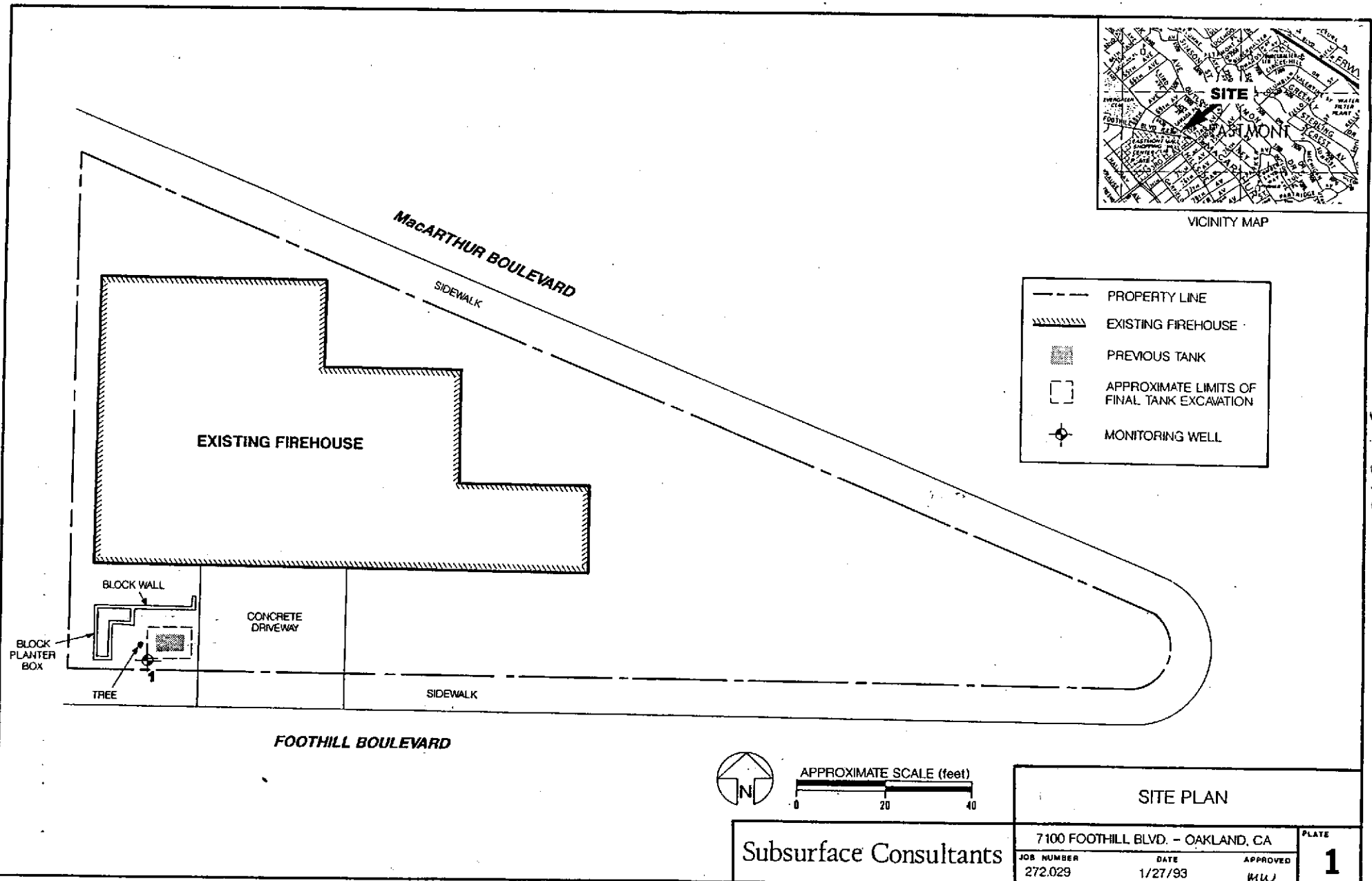
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STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

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VICINITY MAP



- PROPERTY LINE
- ▨ EXISTING FIREHOUSE
- ▤ PREVIOUS TANK
- APPROXIMATE LIMITS OF FINAL TANK EXCAVATION
- ⊕ MONITORING WELL



APPROXIMATE SCALE (feet)
0 20 40

SITE PLAN		
7 100 FOOTHILL BLVD. - OAKLAND, CA		
JOB NUMBER 272.029	DATE 1/27/93	APPROVED MW
		PLATE 1

Subsurface Consultants

MAP REFERENCE NO. 8

346372

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

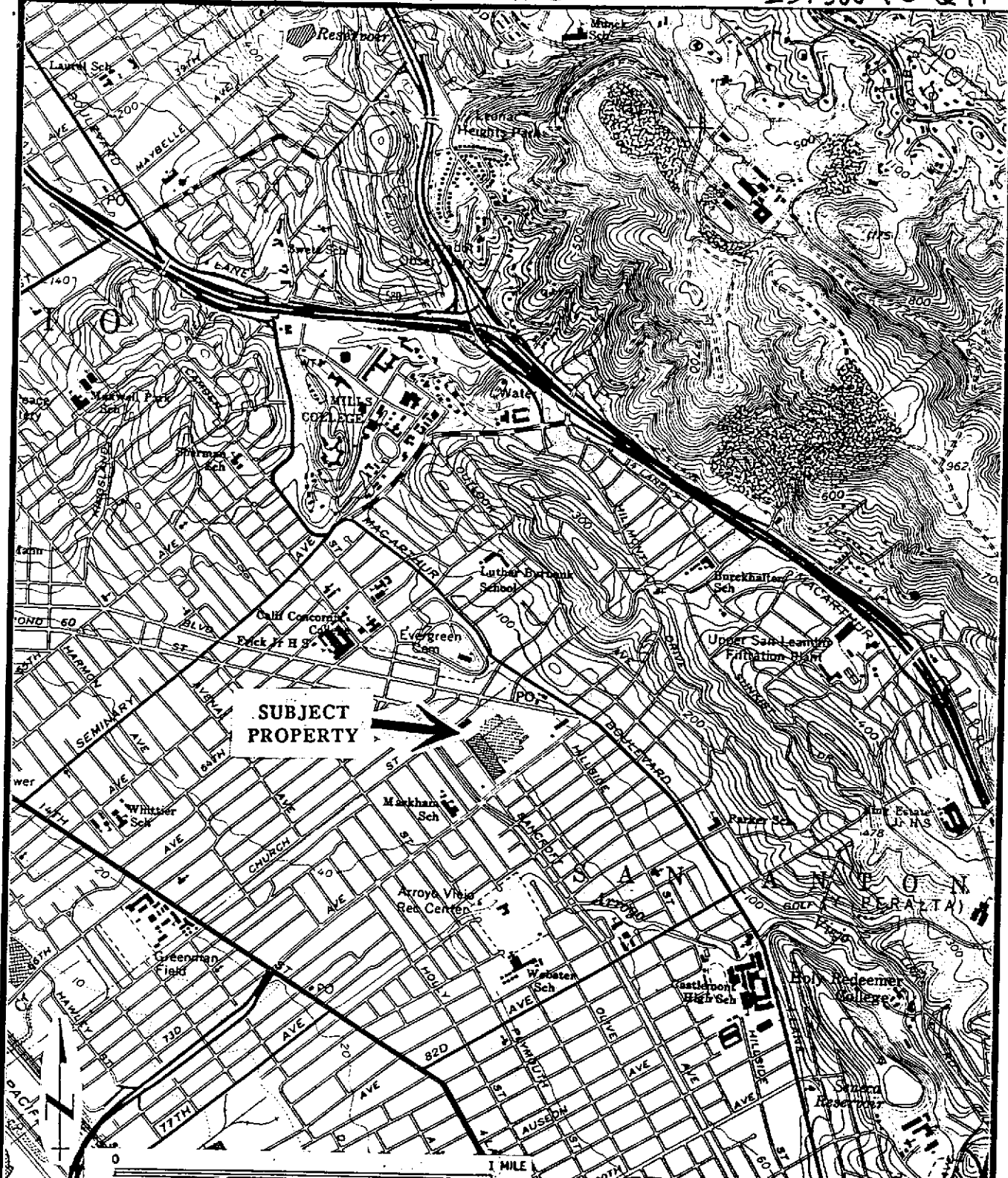
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STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

2513W 10 Q 11-15



Artesian Environmental Consultants
 3175 Kerner Blvd., Suite E
 San Rafael, California 94901
 415-257-4801
 Fax 257-4805

REGIONAL MAP

One Eastmont Mall
 Oakland, California 94605

Project No: 93-001-01

Date: 8/27/93

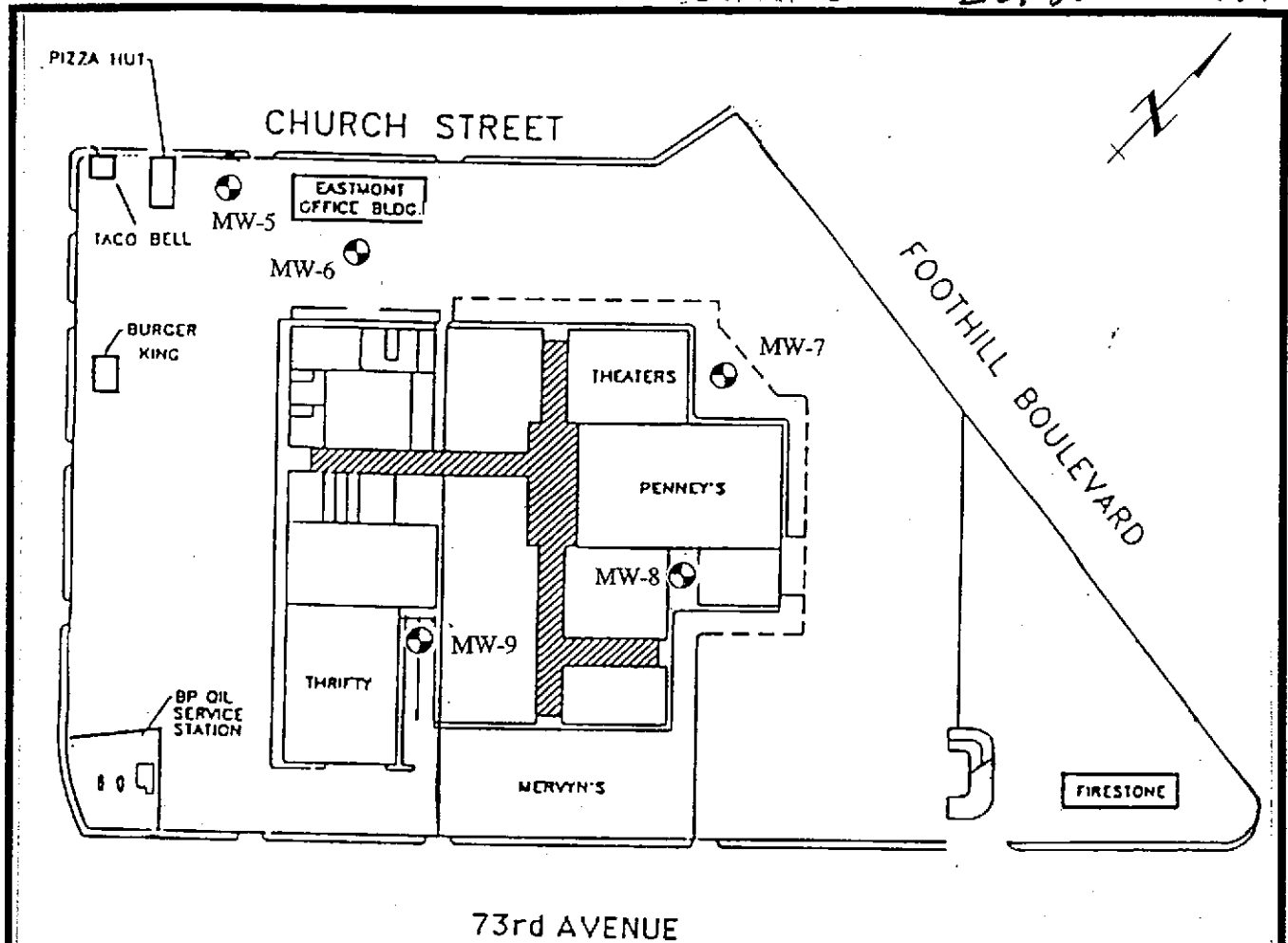
Drawn by: BIM


Figure 1

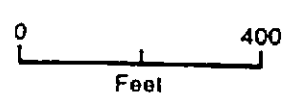
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2S/3W 10Q11-15



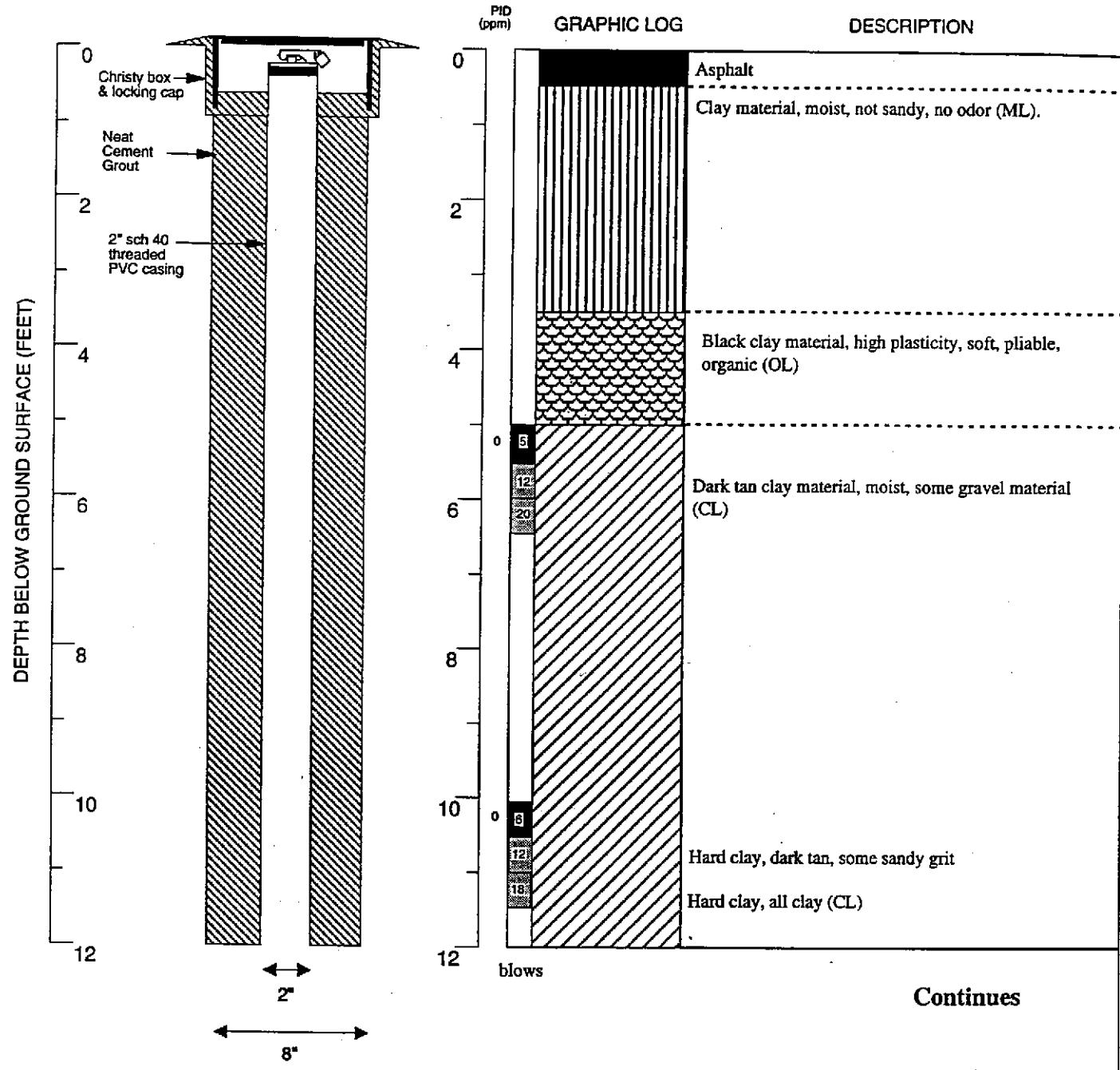

 Installed Monitor Wells
 Artesian Environmental



After Dames & Moore, 1991

Artesian Environmental Consultants 3175 Kerner Blvd., Suite E San Rafael, California 94901 415-257-4801 Fax 257-4805		GROUNDWATER GRADIENT MAP One Eastmont Mall Oakland, California 94605	
Project No: 93-001-01	Date: 8/27/93	Drawn by: BIM	Figure 3

MAP REFERENCE NO. 10



Logged by: Benjamin L Mira	Drilling Company: West HazMat	Well Head Completion: Christy box & locking cap
Inspector:	Drilling Method: Hollow Stem Auger	Type of Sampler: California Split Spoon
Dates Drilled: 9/13/93	Driller: Bill Smith	TD (Total Depth): 50.0 ft.

EXPLANATION	
	Water level during drilling
	Water level in completed well
	Location of drill sample
	Location of sample sealed for chemical analysis
	Sieve sample
	Grab sample
	Contacts: Solid where certain
	Dotted where approximate
	Dashed where uncertain
	est K Estimated permeability (hydraulic conductivity) 1K = primary 2K = secondary
	NR No recovery

Boring Log and Well Completion Details
MW-5

One Eastmont Mall
Oakland, California

ARTESIAN ENVIRONMENTAL CONSULTANTS
3175 KERNER BOULEVARD, SUITE E, SAN RAFAEL, CALIFORNIA 94901 (415) 257-4801

MONITOR WELL

5

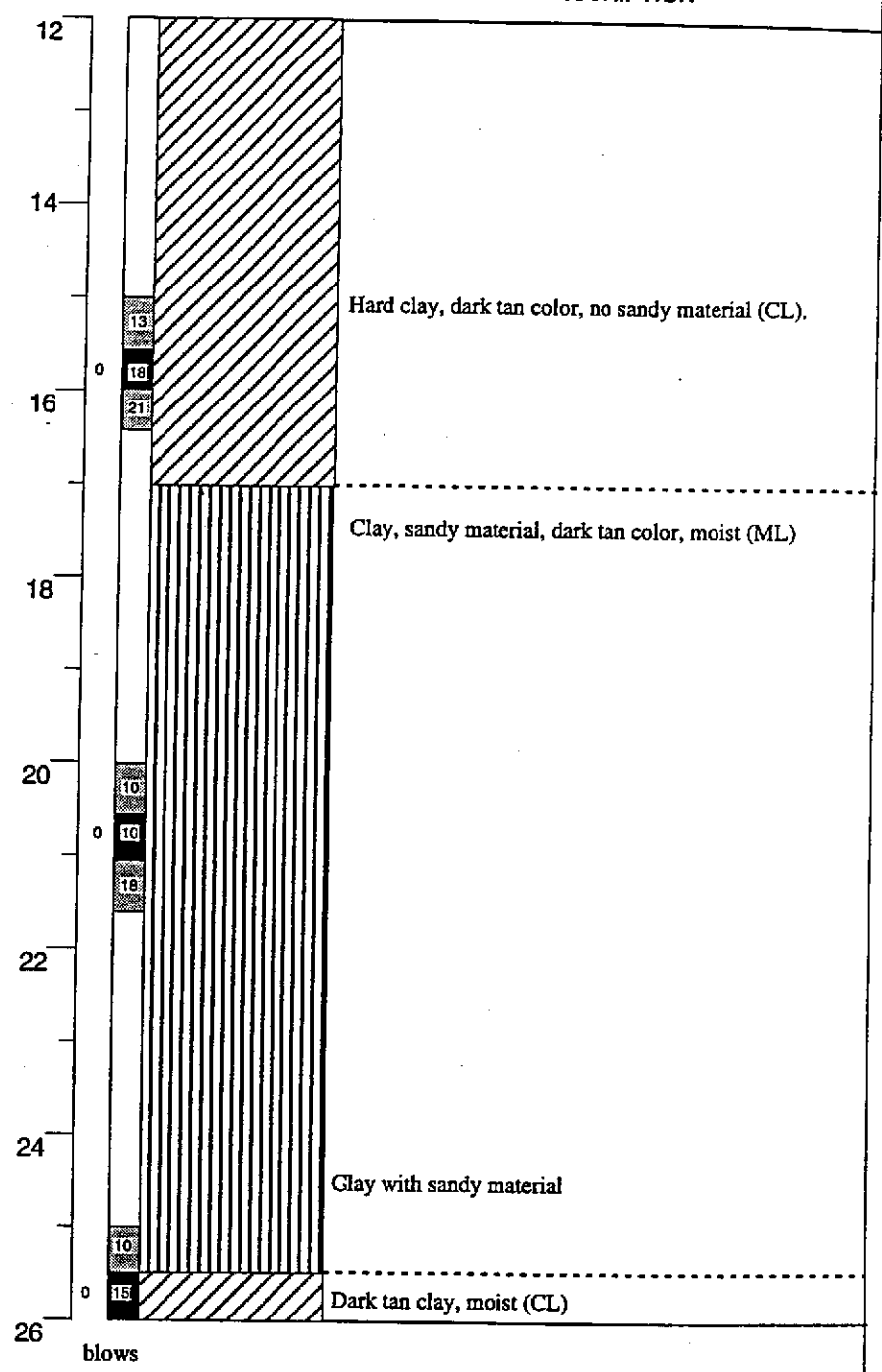
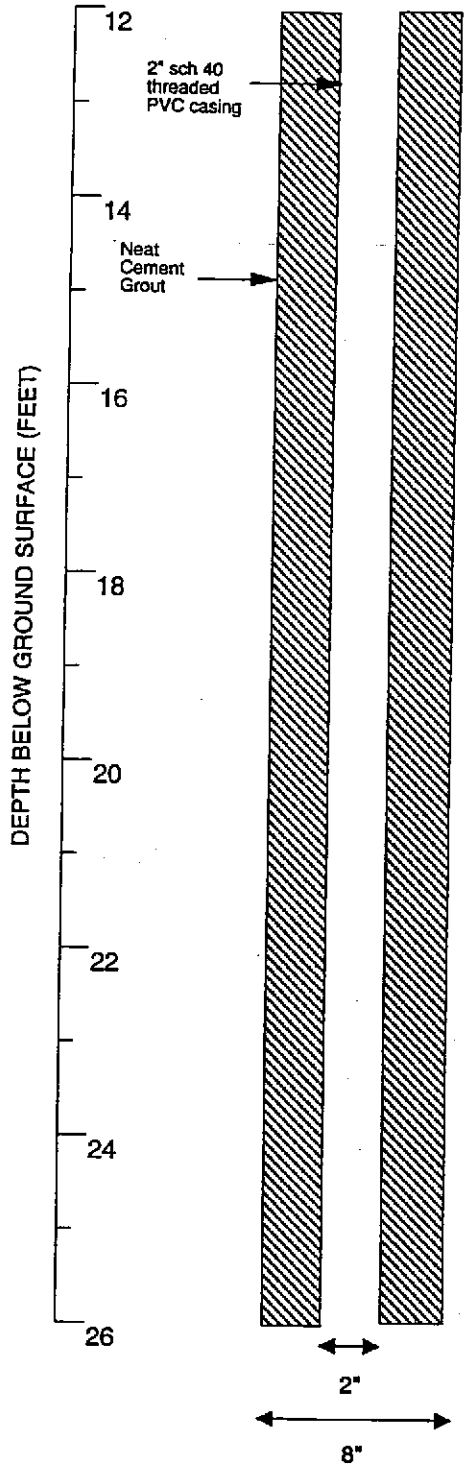
110-01-01

537

434117A

2S/3W 10 Q11

PID (ppm) GRAPHIC LOG DESCRIPTION



Continues

EXPLANATION	
	Water level during drilling
	Water level in completed well
	Location of drill sample
	Location of sample sealed for chemical analysis
	Sieve sample
	Grab sample
	Contacts: Solid where certain
	Dotted where approximate
	Dashed where uncertain
est K	Estimated permeability (hydraulic conductivity) 1K = primary 2K = secondary
NR	No recovery

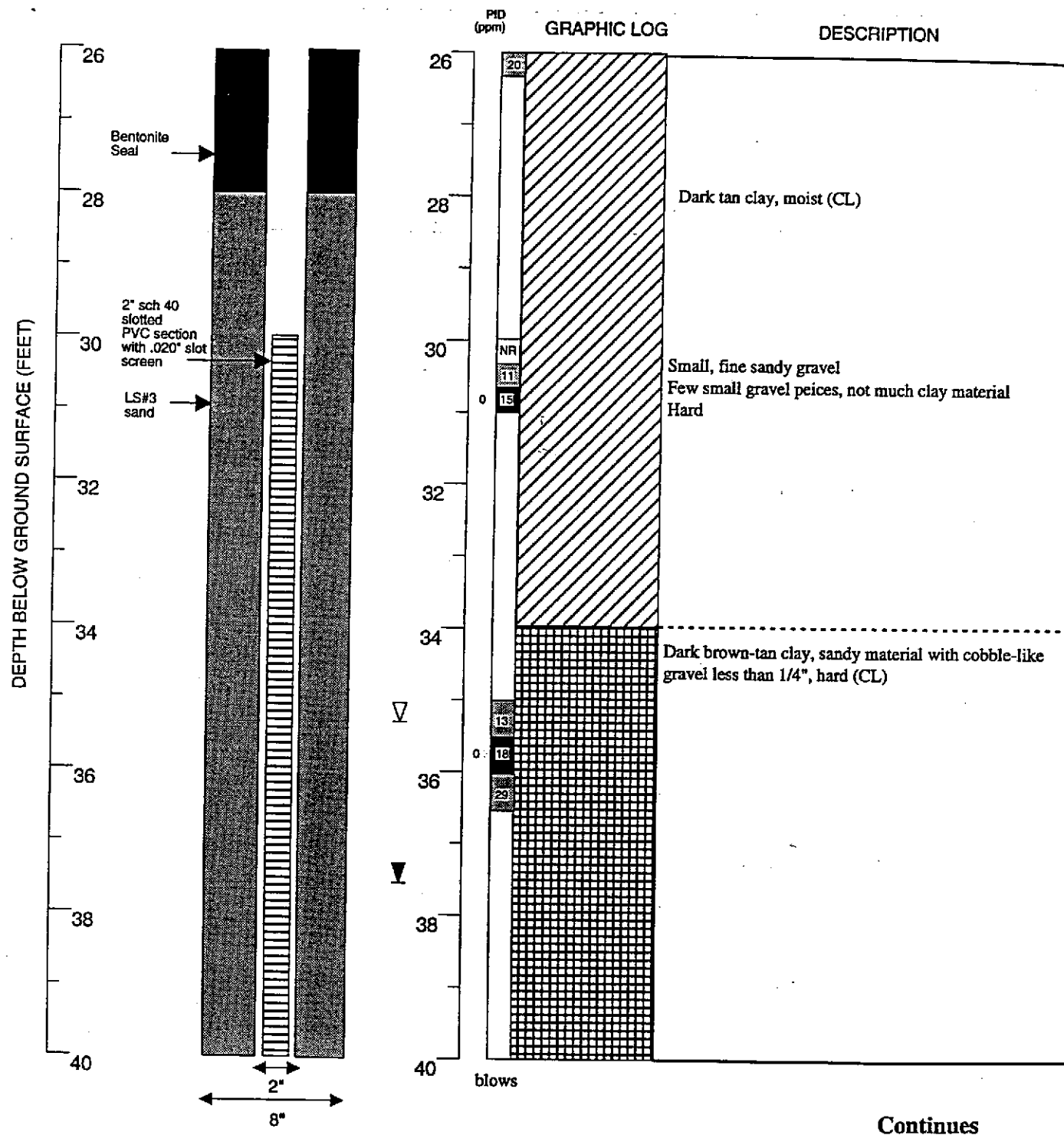
Boring Log and Well Completion Details MW-5		MONITOR WELL
One Eastmont Mall Oakland, California		5
ARTESIAN ENVIRONMENTAL CONSULTANTS 3175 KERNER BOULEVARD, SUITE E, SAN RAFAEL, CALIFORNIA 94901 (415) 257-4801		110-01-01

MAP REFERENCE NO. 10

627

434117A

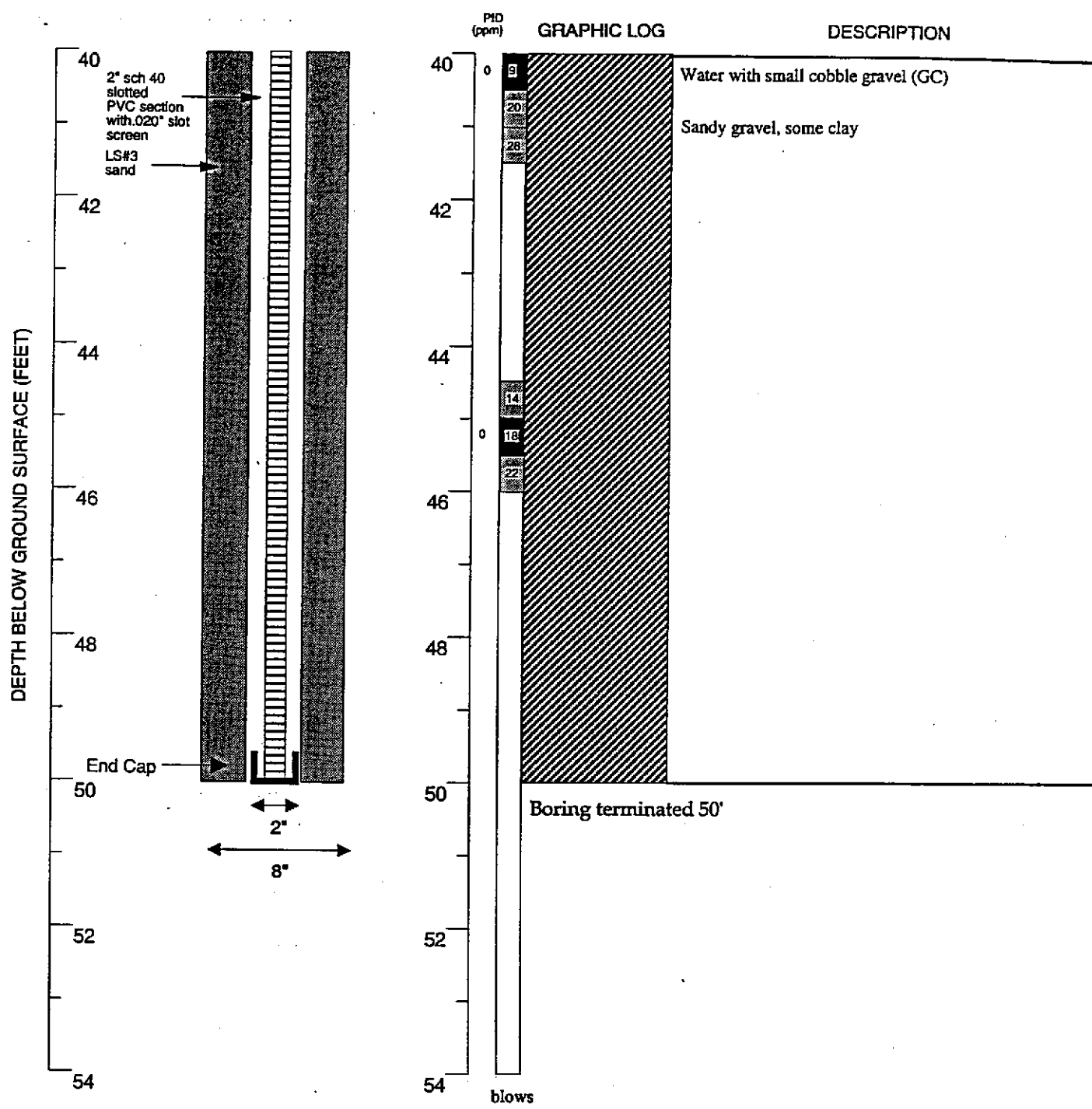
2513W10Q11



Continues

EXPLANATION		Boring Log and Well Completion Details MW-5	MONITOR WELL
<ul style="list-style-type: none"> ▽ Water level during drilling ∇ Water level in completed well ■ Location of recovered drill sample ■ Location of sample sealed for chemical analysis ▣ Sieve sample ⊠ Grab sample 	<ul style="list-style-type: none"> — Contacts: Solid where certain ⋯ Dotted where approximate - - - Dashed where uncertain est K Estimated permeability (hydraulic conductivity) 1K = primary 2K = secondary NR No recovery 		
		ARTESIAN ENVIRONMENTAL CONSULTANTS 3175 KERNER BOULEVARD, SUITE E, SAN RAFAEL, CALIFORNIA 94901 (415) 257-4801	110-01-01

MAP REFERENCE NO. 10



Final Page

EXPLANATION

	Water level during drilling		Contacts: Solid where certain
	Water level in completed well		Dotted where approximate
	Location of recovered drill sample		Dashed where uncertain
	Location of sample sealed for chemical analysis	est K	Estimated permeability (hydraulic conductivity) 1K = primary 2K = secondary
	Sieve sample	NR	No recovery
	Grab sample		

Boring Log and Well Completion Details
MW-5

One Eastmont Mall
Oakland, California

ARTESIAN ENVIRONMENTAL CONSULTANTS
3175 KERNER BOULEVARD, SUITE E, SAN RAFAEL, CALIFORNIA 94901 (415) 257-4801

MONITOR WELL

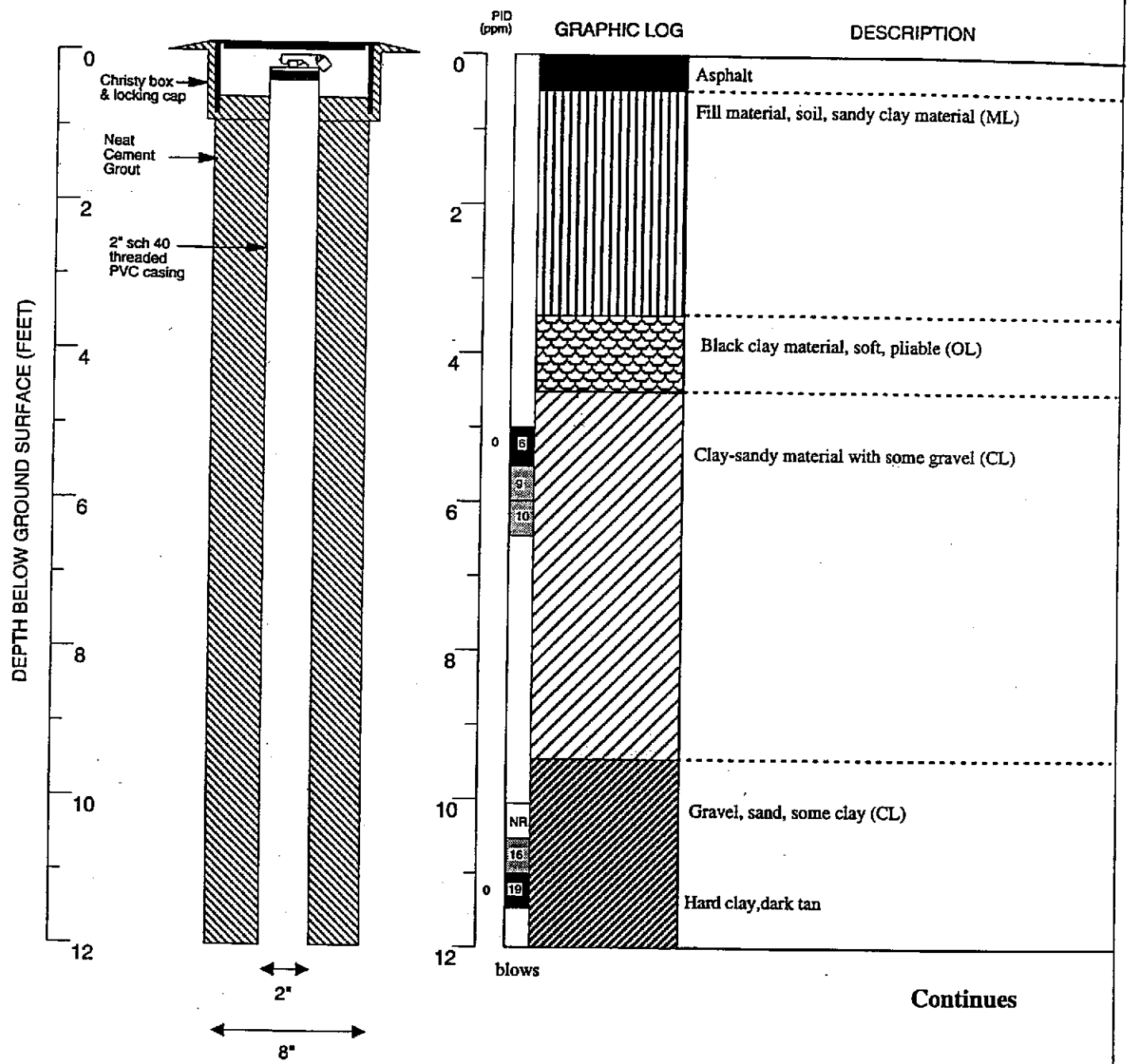
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110-01-01

427

434117B

2S13W10Q12



Continues

Logged by: Benjamin L Mira	Drilling Company: West HazMat	Well Head Completion: Christy box & locking cap
Inspector:	Drilling Method: Hollow Stem Auger	Type of Sampler: California Split Spoon
Dates Drilled: 9/13/93	Driller: Bill Smith	TD (Total Depth): 50.0 ft.

EXPLANATION	
	Water level during drilling
	Water level in completed well
	Location of drill sample
	Location of sample sealed for chemical analysis
	Sieve sample
	Grab sample
	Contacts: Solid where certain
	Dotted where approximate
	Dashed where uncertain
	est K Estimated permeability (hydraulic conductivity) 1K - primary 2K - secondary
	NR No recovery

Boring Log and Well Completion Details
 MW-6

One Eastmont Mall
 Oakland, California

ARTESIAN ENVIRONMENTAL CONSULTANTS
 3175 KERNER BOULEVARD, SUITE E, SAN RAFAEL, CALIFORNIA 94901 (415) 257-4801

MONITOR WELL

6

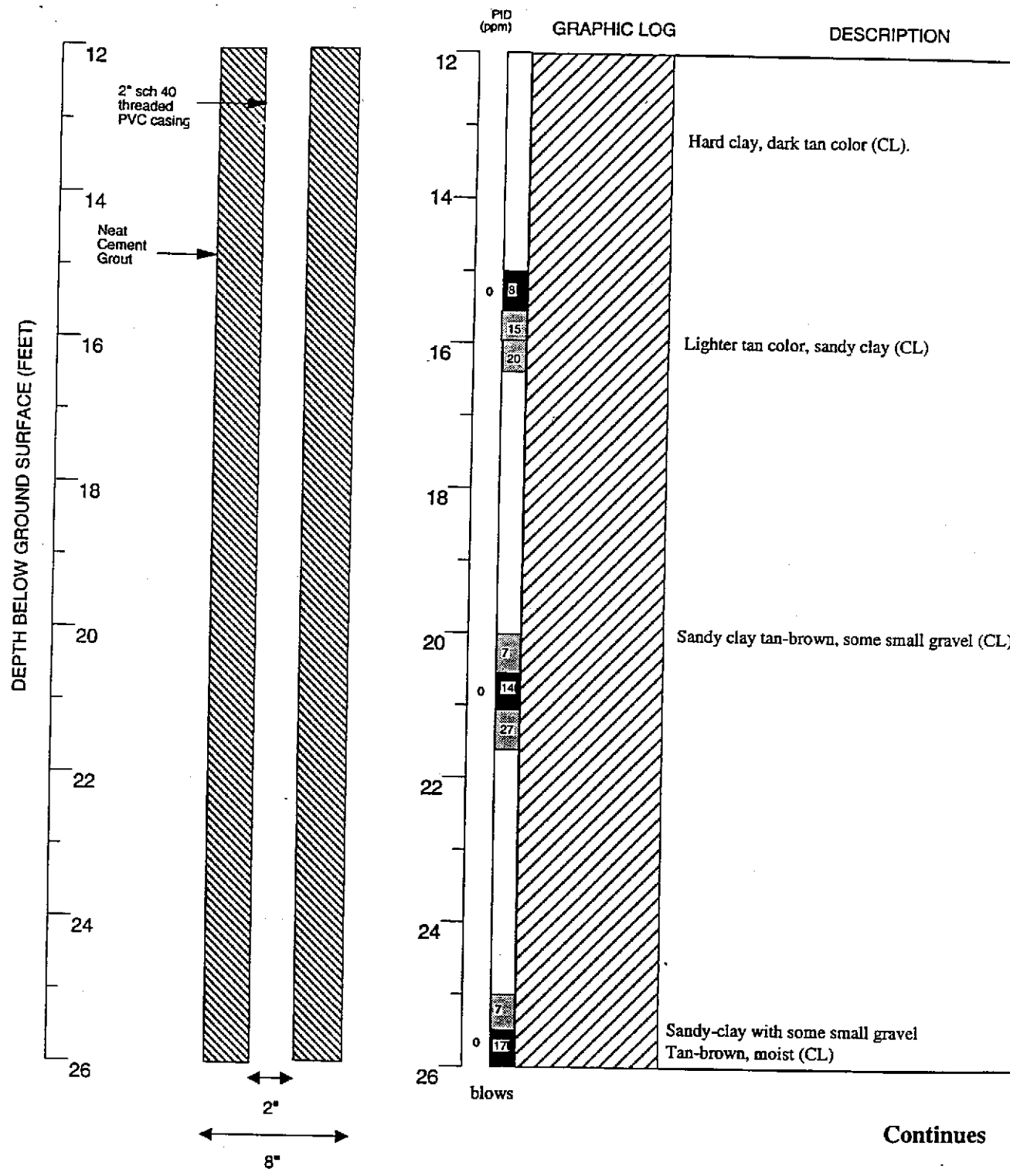
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MAP REFERENCE NO. 10

577

254117.3

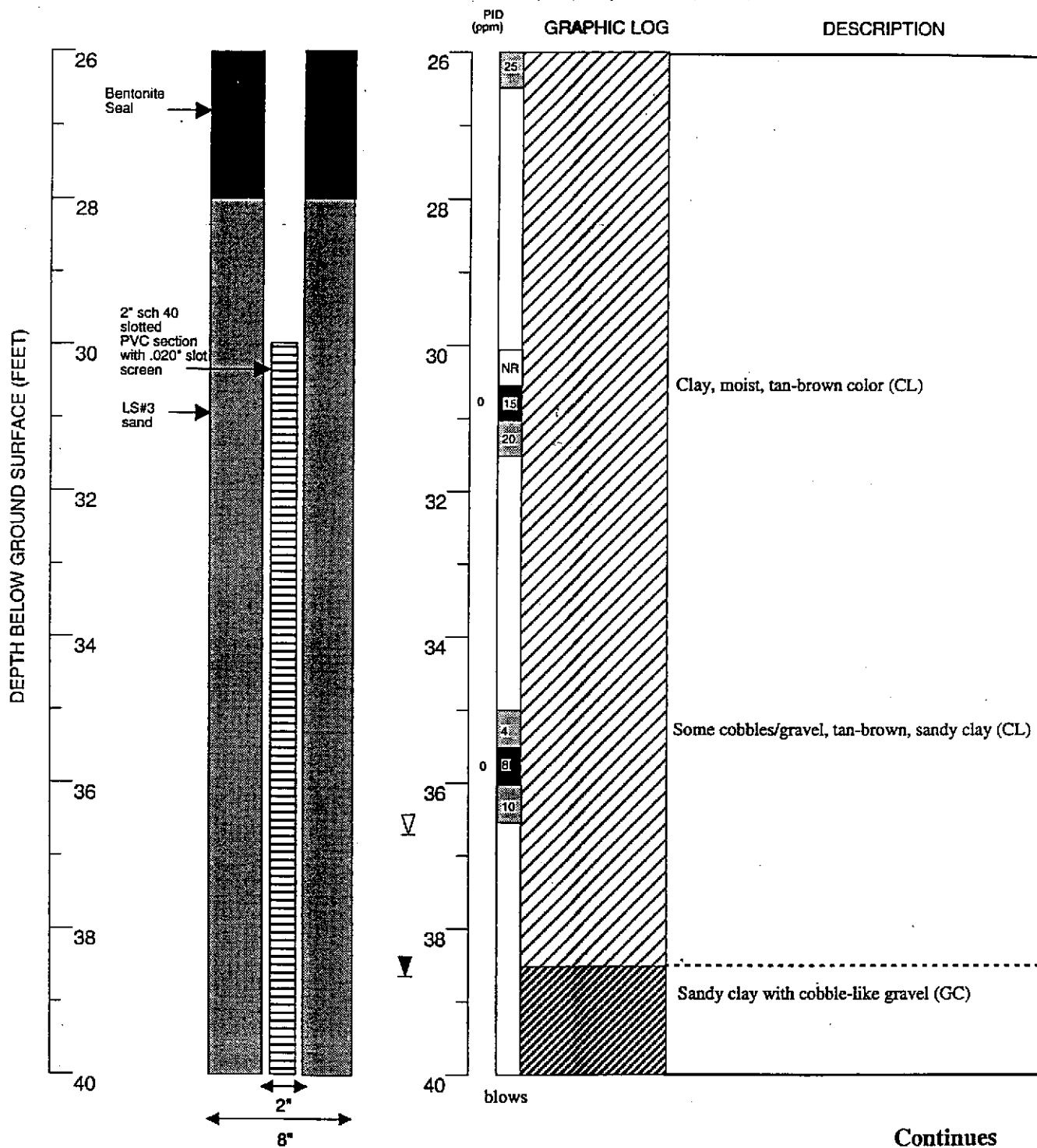
2S/3W 10Q12



Continues

EXPLANATION	
▼	Water level during drilling
⊗	Water level in completed well
■	Location of drill sample
■	Location of sample sealed for chemical analysis
⊕	Sieve sample
⊗	Grab sample
—	Contacts: Solid where certain
⋯	Dotted where approximate
- - -	Dashed where uncertain
est K	Estimated permeability (hydraulic conductivity) 1K = primary 2K = secondary
NR	No recovery

Boring Log and Well Completion Details MW-6		MONITOR WELL 6
One Eastmont Mall Oakland, California		
ARTESIAN ENVIRONMENTAL CONSULTANTS 3175 KERNER BOULEVARD, SUITE E, SAN RAFAEL, CALIFORNIA 94901 (415) 257-4801		110-01-01 MAP REFERENCE NO. 10



EXPLANATION	
	Water level during drilling
	Water level in completed well
	Location of recovered drill sample
	Location of sample sealed for chemical analysis
	Sieve sample
	Grab sample
	Contacts: Solid where certain
	Dotted where approximate
	Dashed where uncertain
est K	Estimated permeability (hydraulic conductivity) 1K = primary 2K = secondary
NR	No recovery

Boring Log and Well Completion Details
MW-6

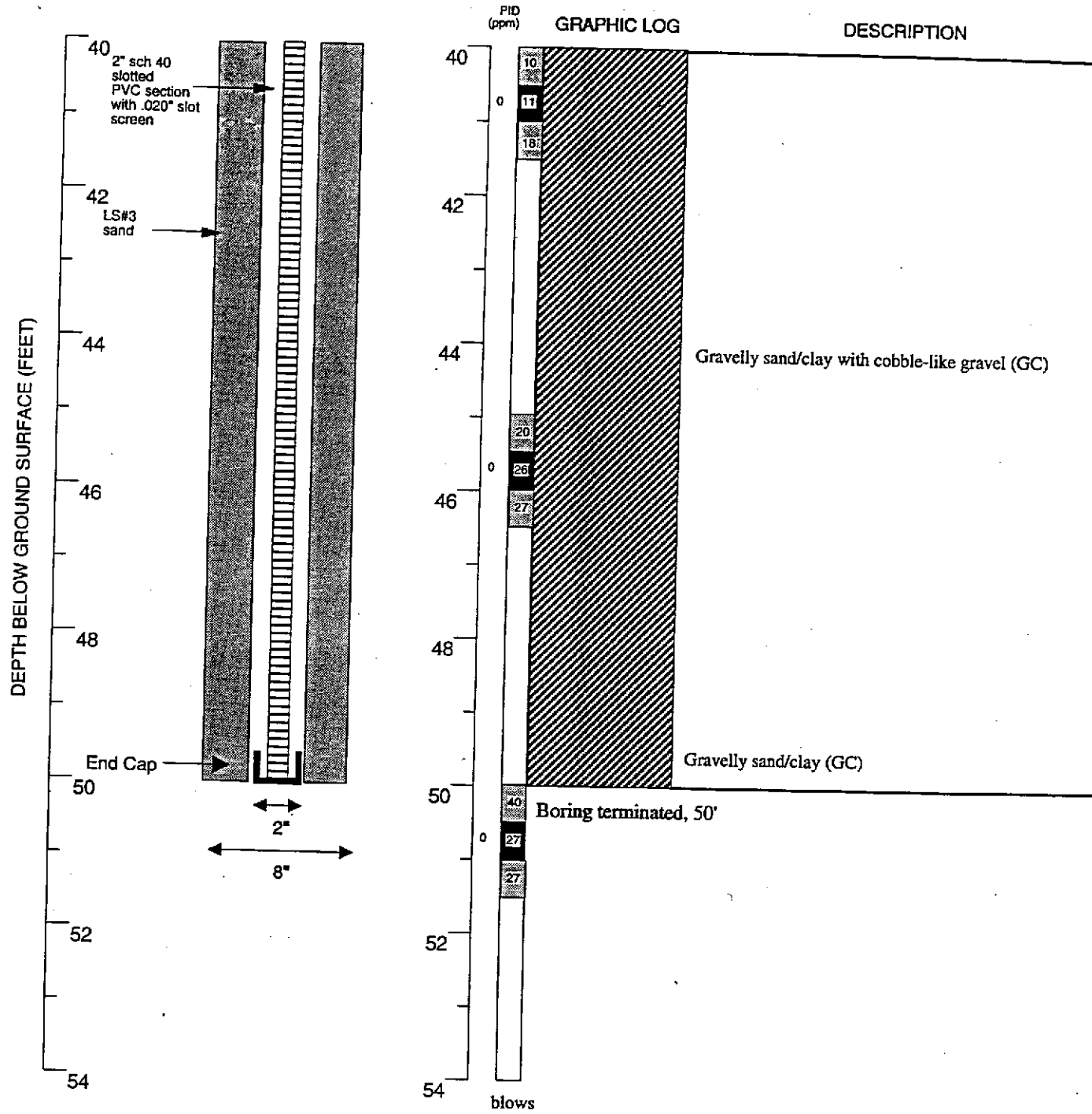
One Eastmont Mall
 Oakland, California

ARTESIAN ENVIRONMENTAL CONSULTANTS
 3175 KERNER BOULEVARD, SUITE E, SAN RAFAEL, CALIFORNIA 94901 (415) 257-4801

MONITOR WELL

6

110-01-01



Final Page

EXPLANATION

	Water level during drilling		Contacts: Solid where certain
	Water level in completed well		Dotted where approximate
	Location of recovered drill sample		Dashed where uncertain
	Location of sample sealed for chemical analysis	est K	Estimated permeability (hydraulic conductivity) 1K = primary 2K = secondary
	Sieve sample	NR	No recovery
	Grab sample		

Boring Log and Well Completion Details
MW-6

One Eastmont Mall
Oakland, California

ARTESIAN ENVIRONMENTAL CONSULTANTS
3175 KERNER BOULEVARD, SUITE E, SAN RAFAEL, CALIFORNIA 94901 (415) 257-4801

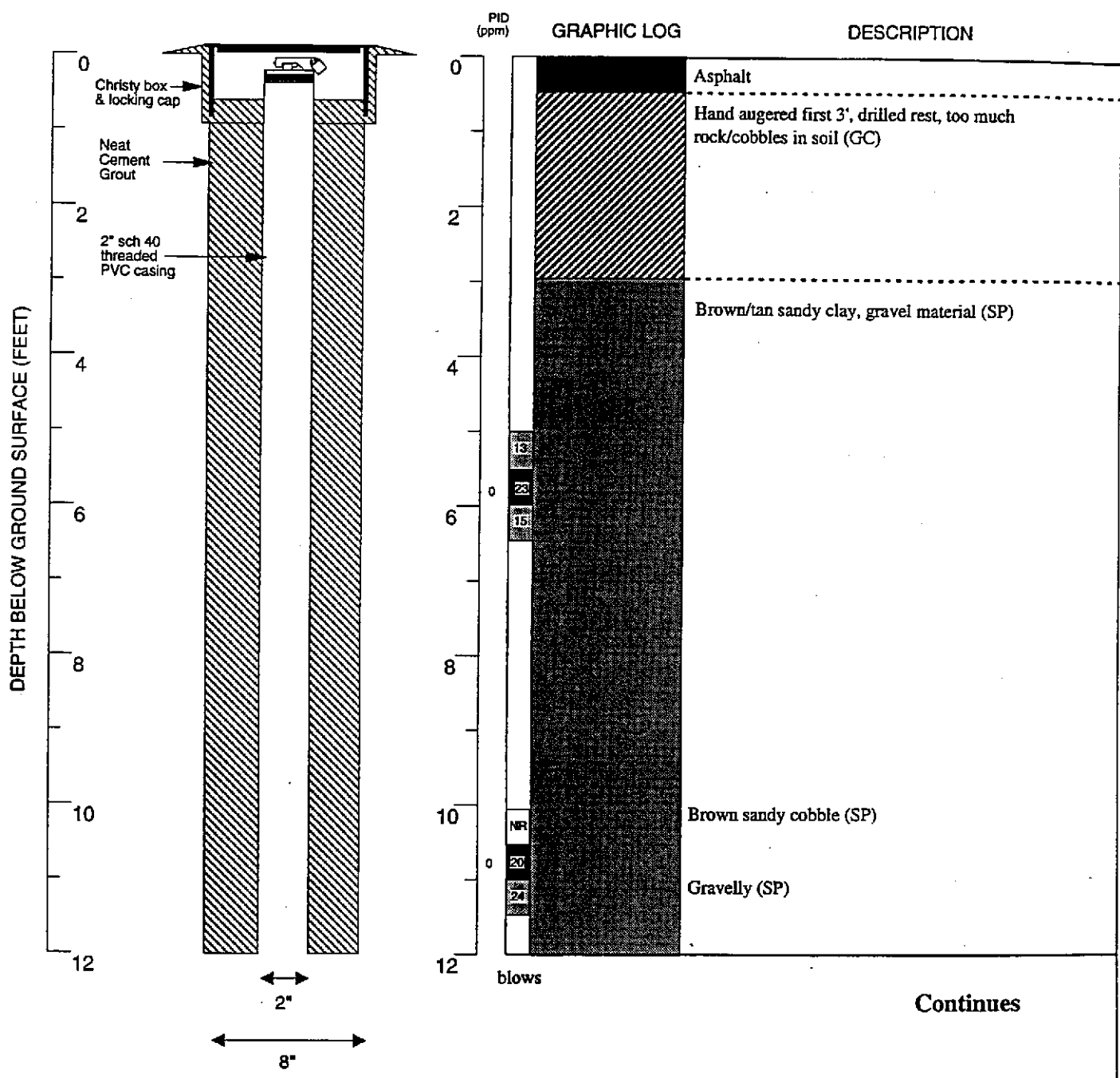
MONITOR WELL

6

110-01-01

434117 E.C

2S/3W 10Q13

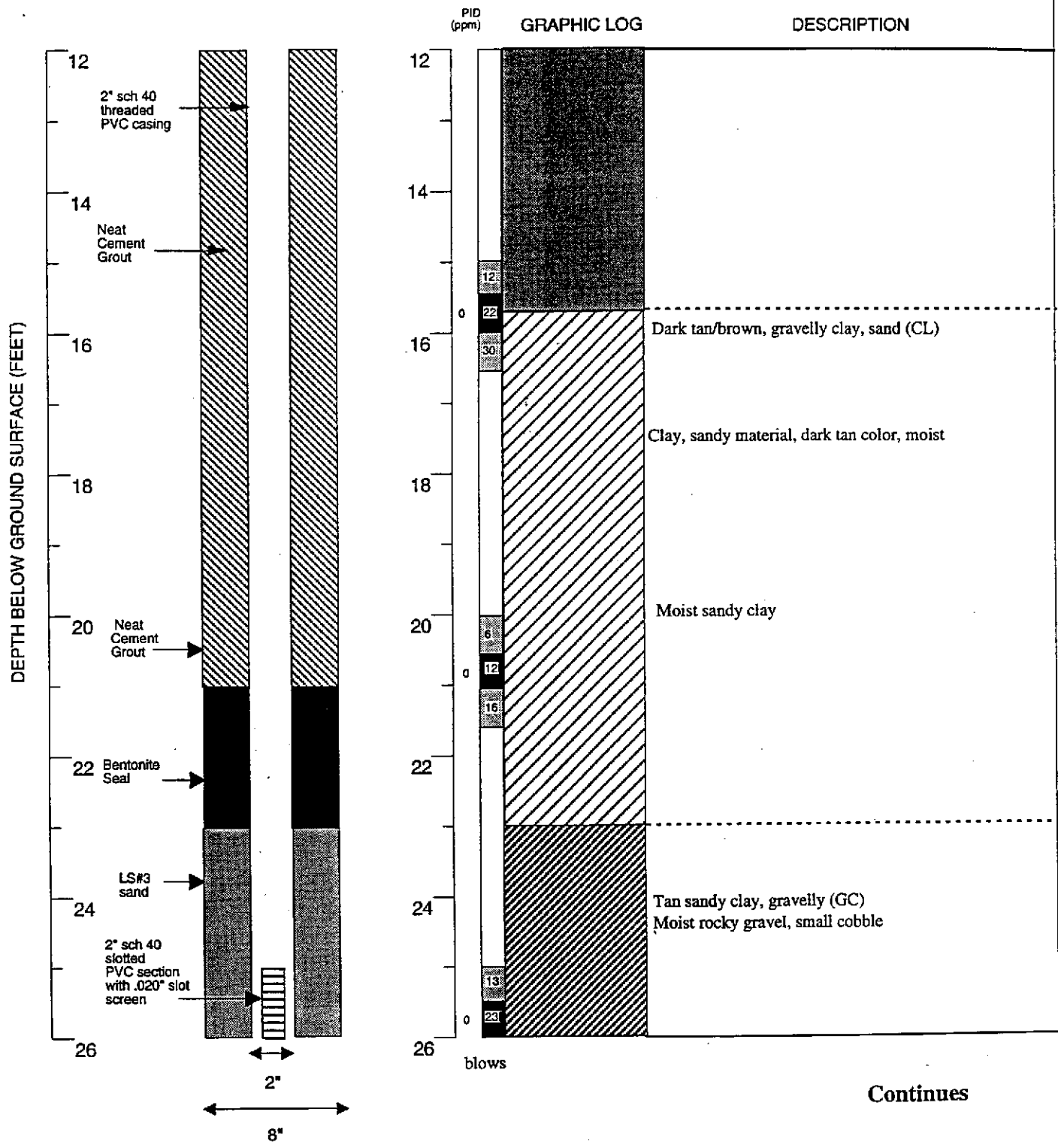


Logged by: Benjamin I. Mira Drilling Company: West HazMat Well Head Completion: Christy box & locking cap
 Inspector: Drilling Method: Hollow Stem Auger Type of Sampler: California Split Spoon
 Dates Drilled: 9/13/93 Driller: Bill Smith TD (Total Depth): 50.0 ft.

EXPLANATION	
Water level during drilling	Contacts: Solid where certain.
Water level in completed well	Dotted where approximate
Location of drill sample	Dashed where uncertain
Location of sample sealed for chemical analysis	Hachured where gradational
Sieve sample	est K Estimated permeability (hydraulic conductivity) 1K = primary 2K = secondary
Grab sample	NR No recovery

Boring Log and Well Completion Details MW-7		MONITOR WELL <h1 style="margin: 0;">7</h1>
One Eastmont Mall Oakland, California		
ARTESIAN ENVIRONMENTAL CONSULTANTS 3175 KERNER BOULEVARD, SUITE E, SAN RAFAEL, CALIFORNIA 94901 (415) 257-4801		110-01-01

MAP REFERENCE NO. 10.



Continues

EXPLANATION

	Water level during drilling		Contacts: Solid where certain
	Water level in completed well		Dotted where approximate
	Location of drill sample		Dashed where uncertain
	Location of sample sealed for chemical analysis		Hachured where gradational
	Sieve sample	est K	Estimated permeability (hydraulic conductivity) 1K = primary 2K = secondary
	Grab sample	NR	No recovery

Boring Log and Well Completion Details
MW-7

One Eastmont Mall
Oakland, California

ARTESIAN ENVIRONMENTAL CONSULTANTS
3175 KERNER BOULEVARD, SUITE E, SAN RAFAEL, CALIFORNIA 94901 (415) 257-4801

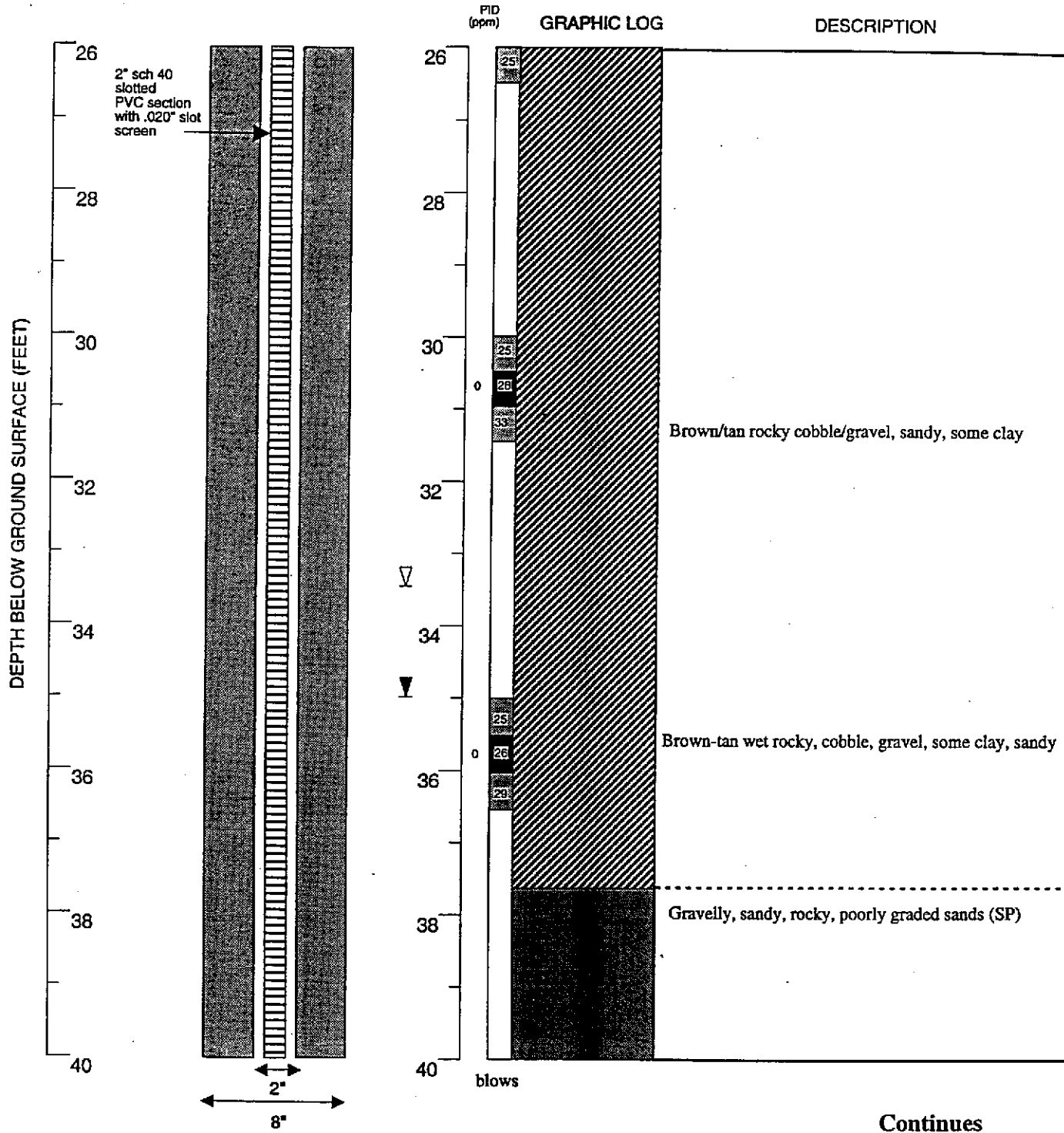
MONITOR WELL

7

110-01-01

+34117C

2513W 10Q13



EXPLANATION	
	Water level during drilling
	Water level in completed well
	Location of recovered drill sample
	Location of sample sealed for chemical analysis
	Sieve sample
	Grab sample
	Contacts: Solid where certain
	Dotted where approximate
	Dashed where uncertain
	Hachured where gradational
	Estimated permeability (hydraulic conductivity) 1K = primary 2K = secondary
	No recovery

Boring Log and Well Completion Details
MW-7

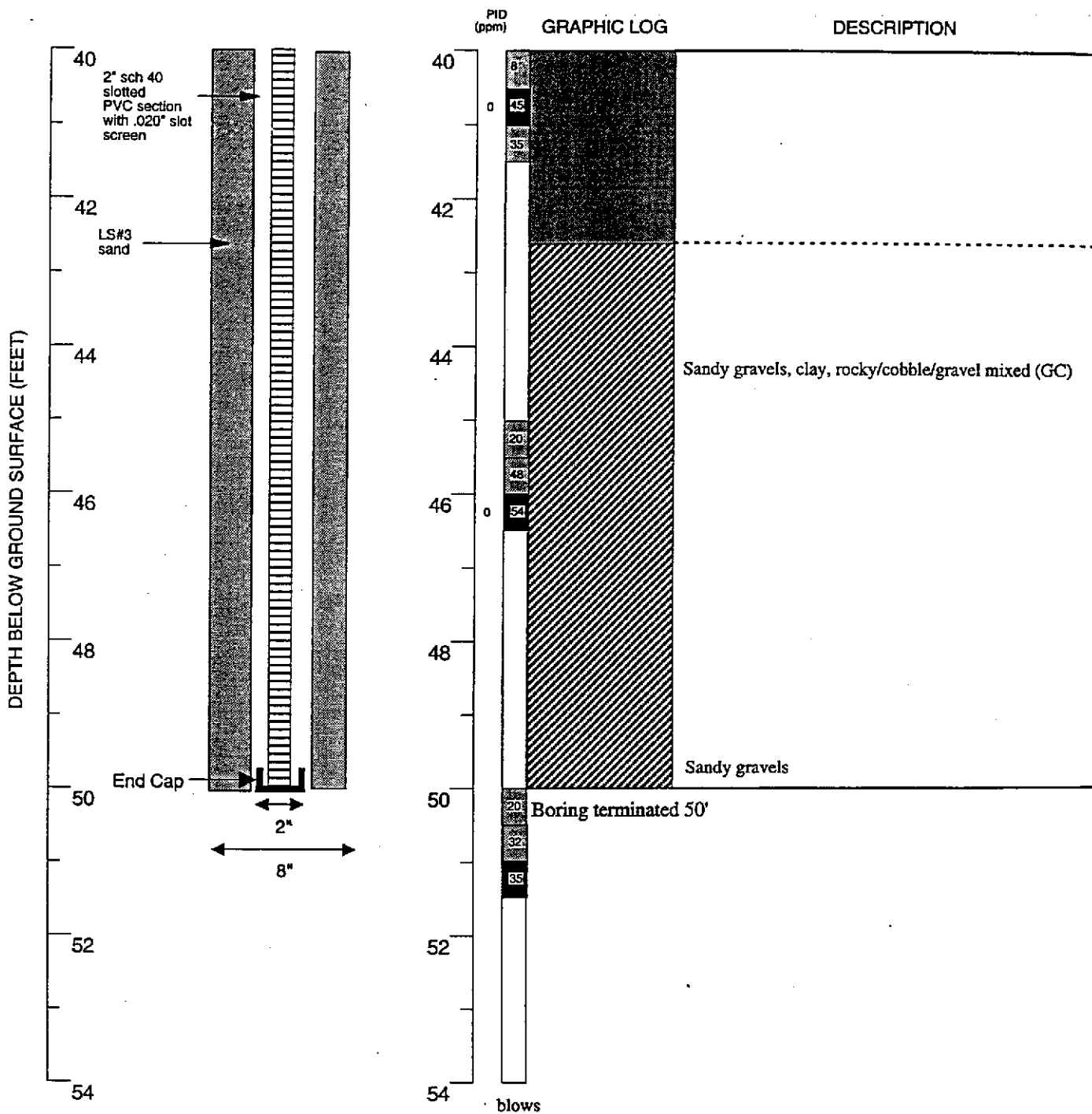
One Eastmont Mall
 Oakland, California

ARTESIAN ENVIRONMENTAL CONSULTANTS
 3175 KERNER BOULEVARD, SUITE E, SAN RAFAEL, CALIFORNIA 94901 (415) 257-4801

MONITOR WELL

7

110-01-01



Final Page

EXPLANATION	
▼ Water level during drilling	— Contacts: Solid where certain
⊘ Water level in completed well Dotted where approximate
■ Location of recovered drill sample	- - - Dashed where uncertain
■ Location of sample sealed for chemical analysis	////// Hachured where gradational
▣ Sieve sample	est K Estimated permeability (hydraulic conductivity) 1K = primary 2K = secondary
⊠ Grab sample	NR No recovery

Boring Log and Well Completion Details
MW-7

One Eastmont Mall
 Oakland, California

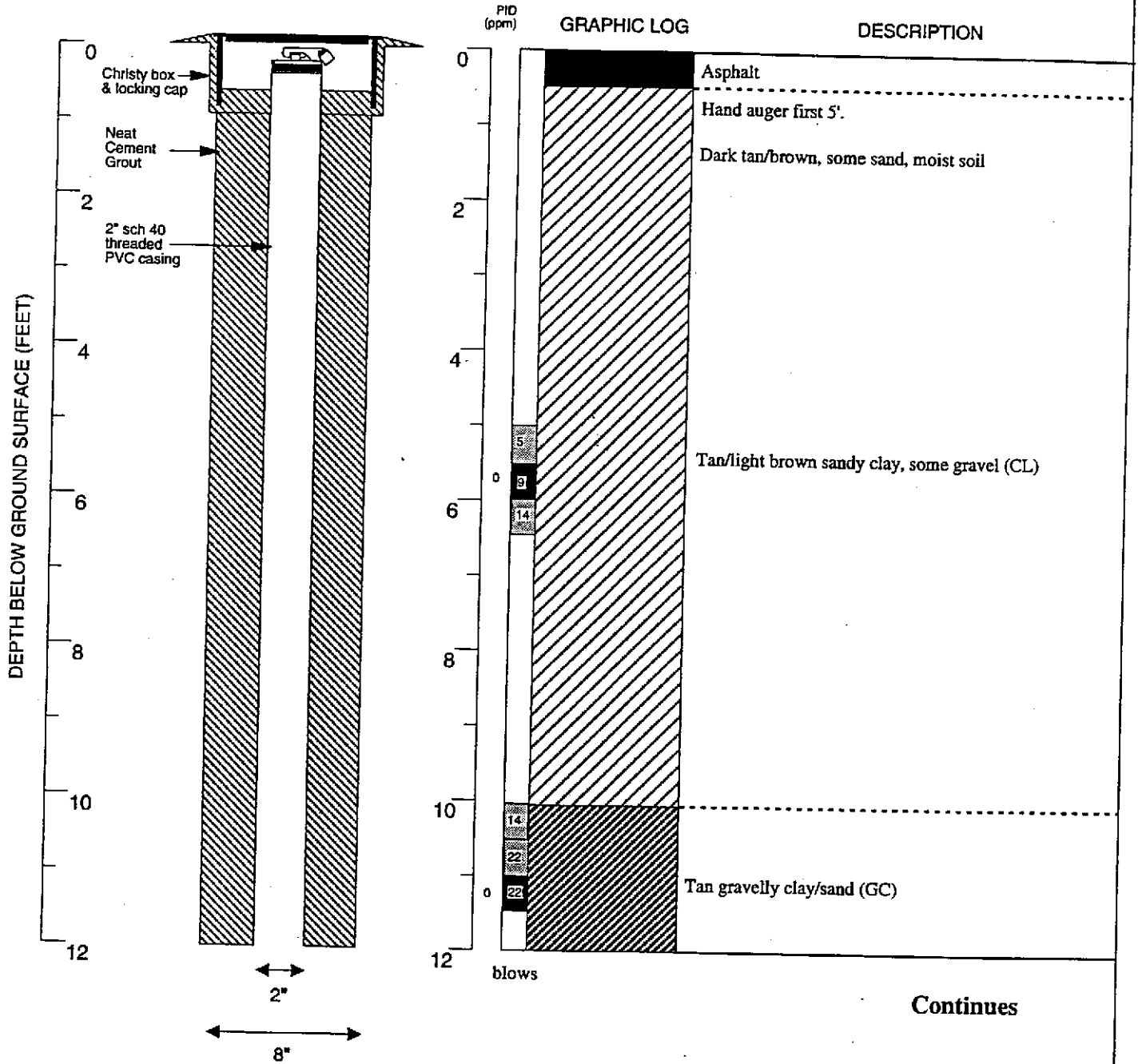
ARTESIAN ENVIRONMENTAL CONSULTANTS
 3175 KERNER BOULEVARD, SUITE E, SAN RAFAEL, CALIFORNIA 94901 (415) 257-4801

MONITOR WELL

7

110-01-01

2S/3W10Q/4



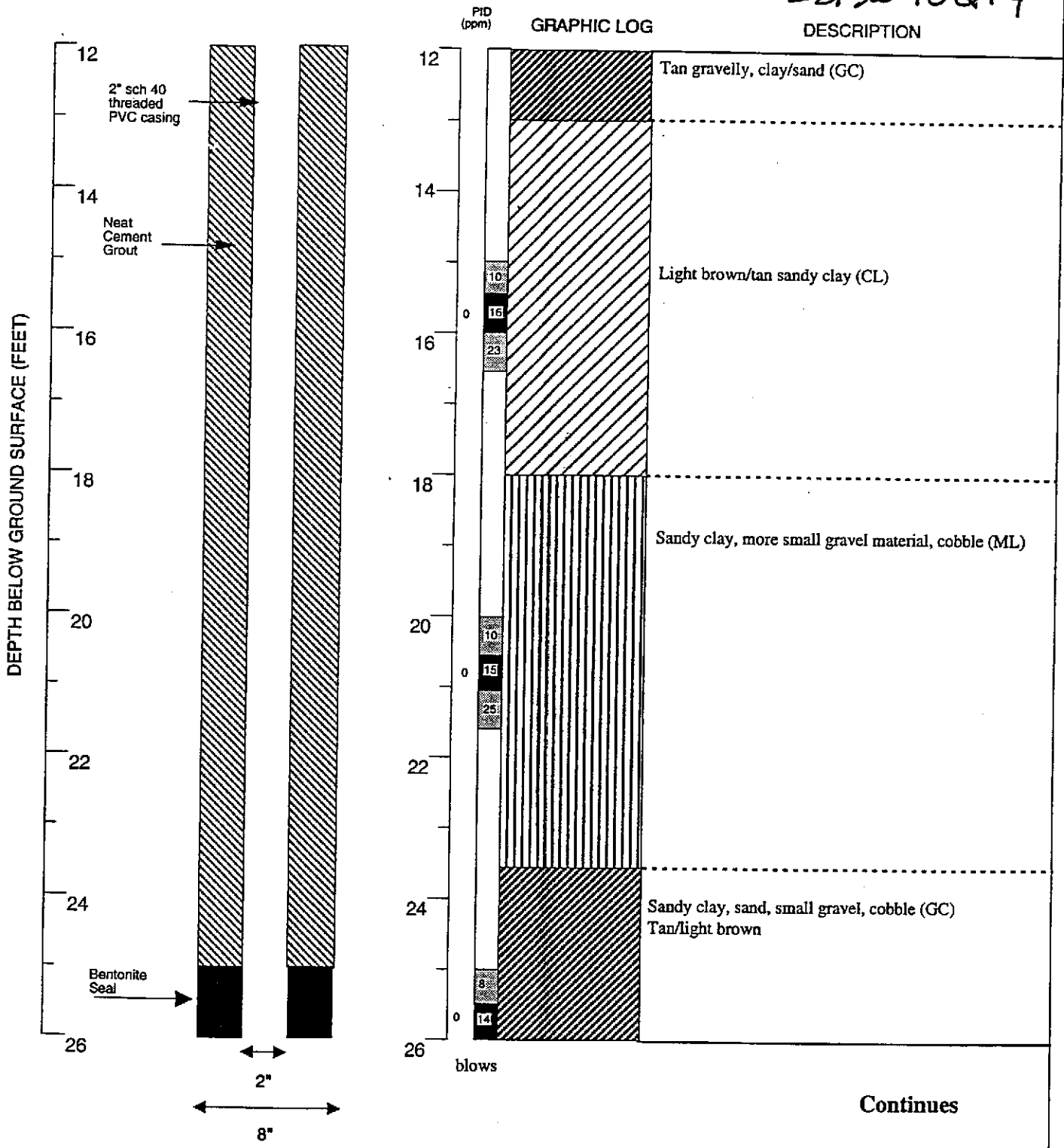
Logged by: Benjamin I. Mira Drilling Company: West HazMat Well Head Completion: Christy box & locking cap
 Inspector: Drilling Method: Hollow Stem Auger Type of Sampler: California Split Spoon
 Dates Drilled: 9/14/93 Driller: Bill Smith ID (Total Depth): 49.0 ft.

EXPLANATION

	Water level during drilling		Contacts: Solid where certain
	Water level in completed well		Dotted where approximate
	Location of drill sample		Dashed where uncertain
	Location of sample sealed for chemical analysis		Hachured where gradational
	Sieve sample	est K	Estimated permeability (hydraulic conductivity) 1K = primary 2K = secondary
	Grab sample	NR	No recovery

Boring Log and Well Completion Details MW-8 One Eastmont Mall Oakland, California	MONITOR WELL 8
ARTESIAN ENVIRONMENTAL CONSULTANTS 3175 KERNER BOULEVARD, SUITE E, SAN RAFAEL, CALIFORNIA 94901 (415) 257-4801	110-01-01

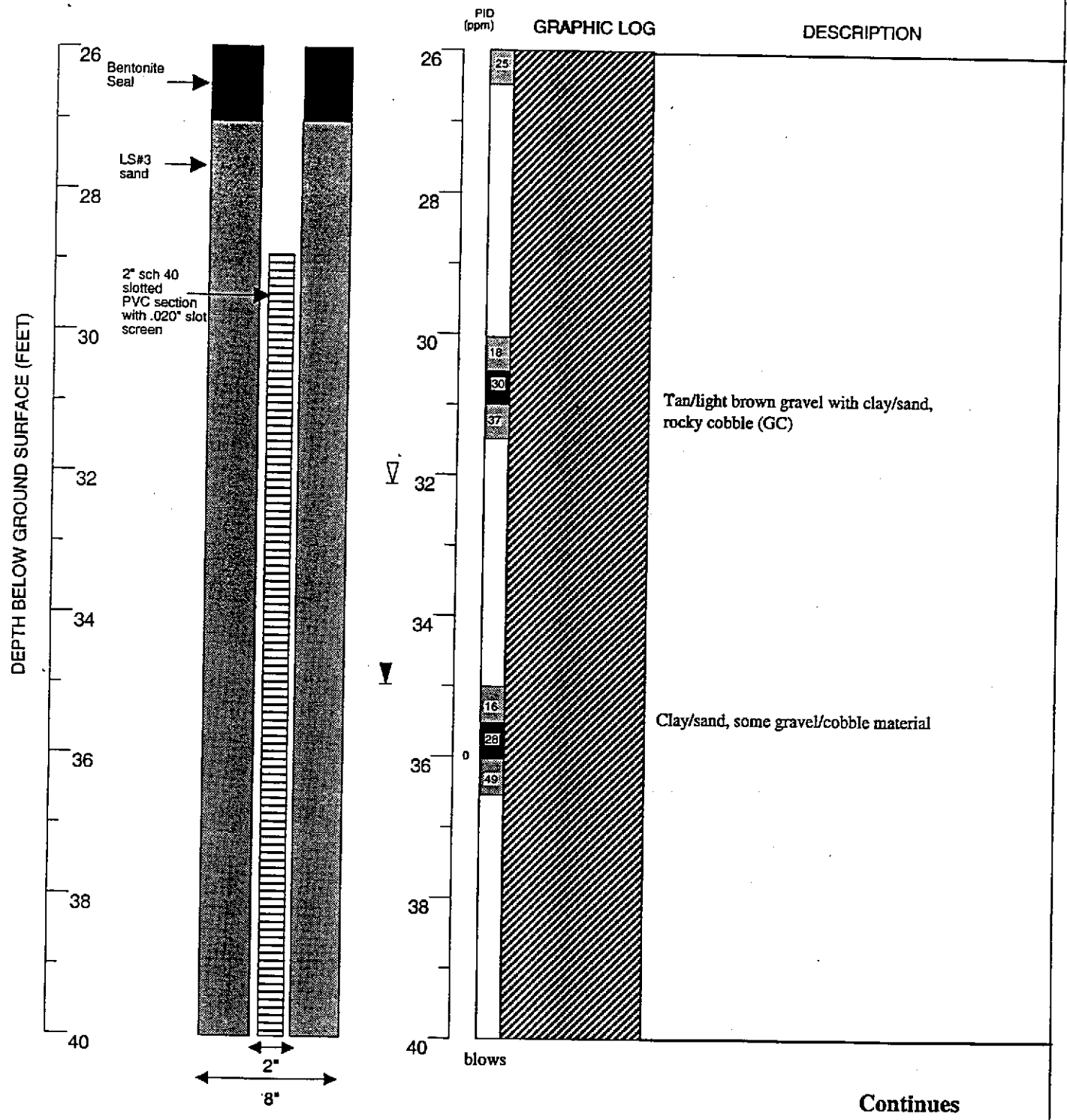
2S/3W 10Q14



EXPLANATION

▼ Water level during drilling	— Contacts: Solid where certain
⊠ Water level in completed well Dotted where approximate
■ Location of drill sample	- - - Dashed where uncertain
■ Location of sample sealed for chemical analysis	////// Hachured where gradational
⊠ Sieve sample	est K Estimated permeability (hydraulic conductivity) 1K - primary 2K - secondary
⊠ Grab sample	NR No recovery

Boring Log and Well Completion Details MW-8		MONITOR WELL 8
One Eastmont Mall Oakland, California		
ARTESIAN ENVIRONMENTAL CONSULTANTS 3175 KERNER BOULEVARD, SUITE E, SAN RAFAEL, CALIFORNIA 94901 (415) 257-4801		110-01-01



EXPLANATION

	Water level during drilling		Contacts: Solid where certain
	Water level in completed well		Dotted where approximate
	Location of recovered drill sample		Dashed where uncertain
	Location of sample sealed for chemical analysis		Hatched where gradational
	Sieve sample	est K	Estimated permeability (hydraulic conductivity) 1K = primary 2K = secondary
	Grab sample	NR	No recovery

Boring Log and Well Completion Details
MW-8

One Eastmont Mall
 Oakland, California

ARTESIAN ENVIRONMENTAL CONSULTANTS
 3175 KERNER BOULEVARD, SUITE E, SAN RAFAEL, CALIFORNIA 94901 (415) 257-4801

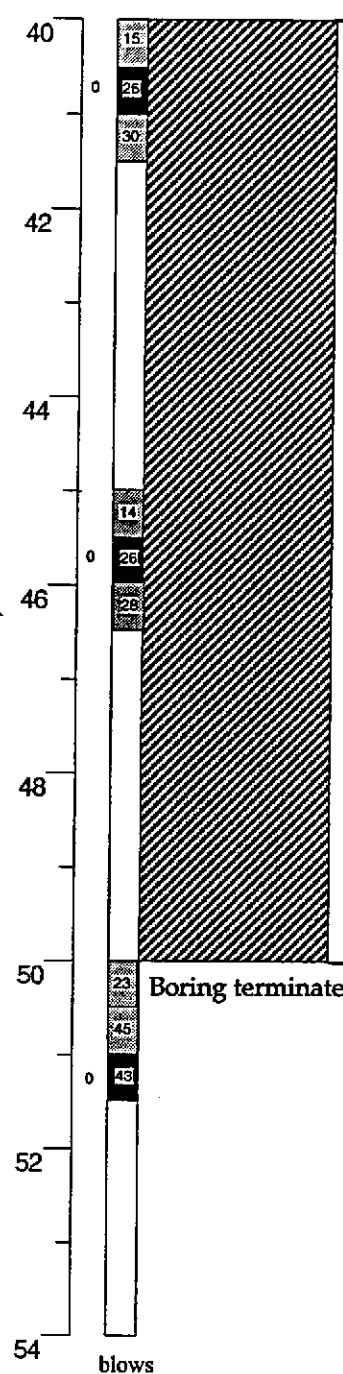
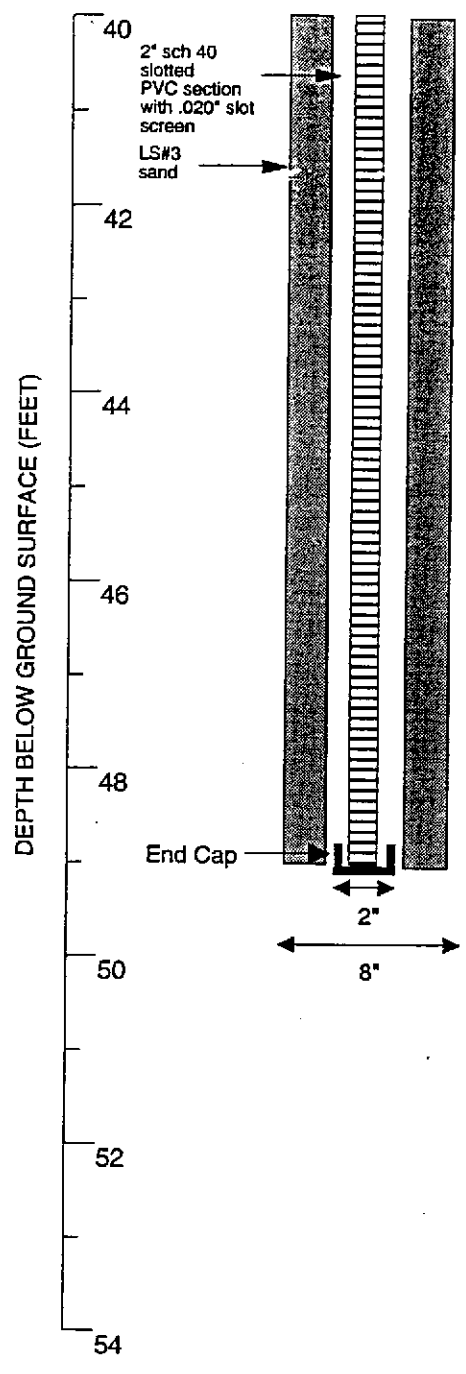
MONITOR WELL

8

110-01-01

PID (ppm) GRAPHIC LOG

DESCRIPTION

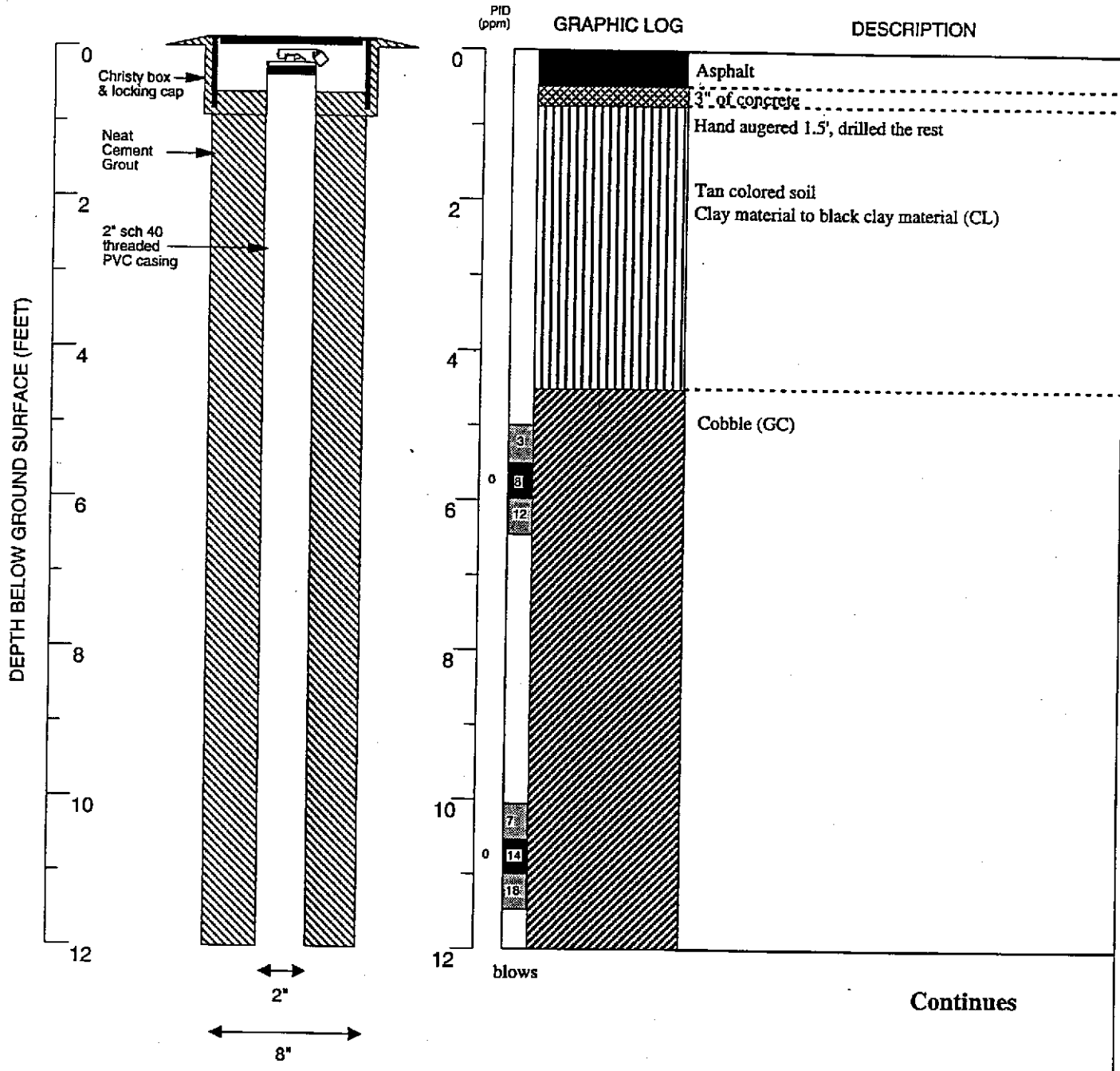


DEPTH (FEET)	PID (ppm)	DESCRIPTION
40	0	
41	15	
42	26	
43	30	
44	14	
45	26	
46	26	
47		
48		
49		
50		Boring terminated, 50'
51	23	
52	0	
53	45	
54	48	

Final Page

EXPLANATION	
	Water level during drilling
	Water level in completed well
	Location of recovered drill sample
	Location of sample sealed for chemical analysis
	Sieve sample
	Grab sample
	Contacts: Solid where certain
	Dotted where approximate
	Dashed where uncertain
	Hachured where gradational
	est K Estimated permeability (hydraulic conductivity) 1K = primary 2K = secondary
	NR No recovery

Boring Log and Well Completion Details MW-8		MONITOR WELL
One Eastmont Mall Oakland, California		8
ARTESIAN ENVIRONMENTAL CONSULTANTS 3175 KERNER BOULEVARD, SUITE E, SAN RAFAEL, CALIFORNIA 94901 (415) 257-4801		110-01-01



Logged by: Benjamin I. Mira	Drilling Company: West HazMat	Well Head Completion: Christy box & locking cap
Inspector:	Drilling Method: Hollow Stem Auger	Type of Sampler: California Split Spoon
Dates Drilled: 9/14/93	Driller: Bill Smith	TD (Total Depth): 50.0 ft.

EXPLANATION

☒ Water level during drilling	——— Contacts: Solid where certain
☒ Water level in completed well Dotted where approximate
■ Location of drill sample	- - - Dashed where uncertain
▨ Location of sample sealed for chemical analysis	▨▨▨▨ Hachured where gradational
☒ Sieve sample	est K Estimated permeability (hydraulic conductivity) 1K - primary 2K - secondary
☒ Grab sample	NR No recovery

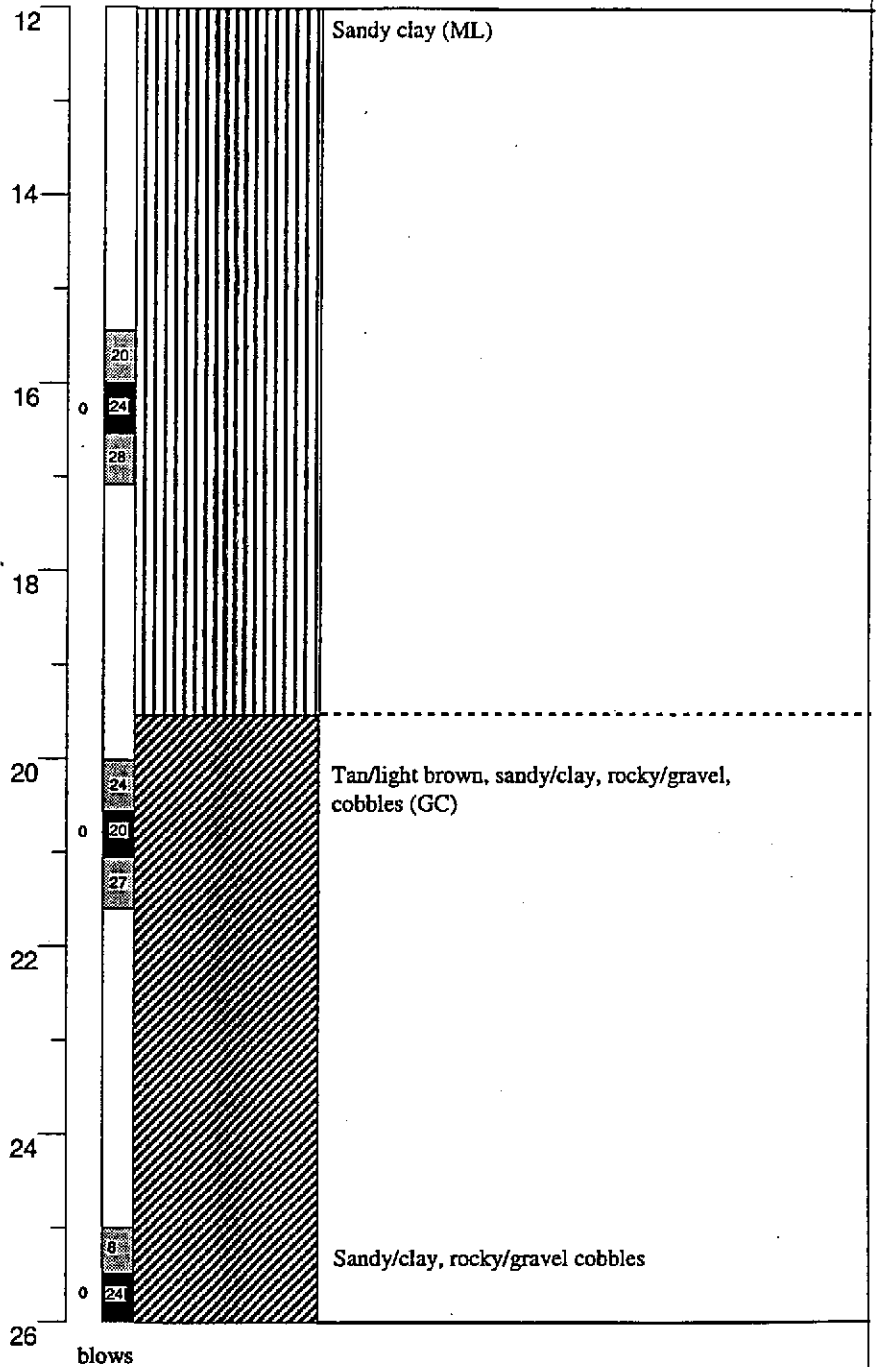
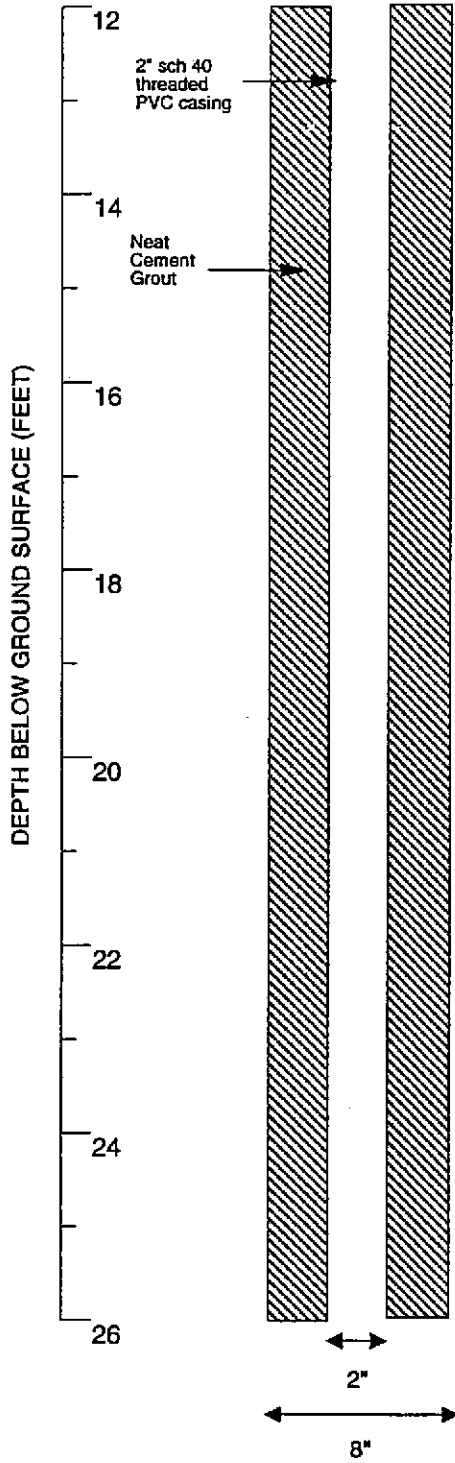
Boring Log and Well Completion Details		MONITOR WELL
MW-9		
One Eastmont Mall Oakland, California		9
ARTESIAN ENVIRONMENTAL CONSULTANTS 3173 KERNER BOULEVARD, SUITE E, SAN RAFAEL, CALIFORNIA 94901 (415) 257-4801		110-01-01

2S13W 10Q15

PID (ppm)

GRAPHIC LOG

DESCRIPTION



Continues

EXPLANATION

- Water level during drilling
- Water level in completed well
- Location of drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- Contacts: Solid where certain
- Contacts: Dotted where approximate
- Contacts: Dashed where uncertain
- Hachured where gradational
- est K Estimated permeability (hydraulic conductivity) 1K = primary 2K = secondary
- NR No recovery

Boring Log and Well Completion Details
MW-9

One Eastmont Mall
Oakland, California

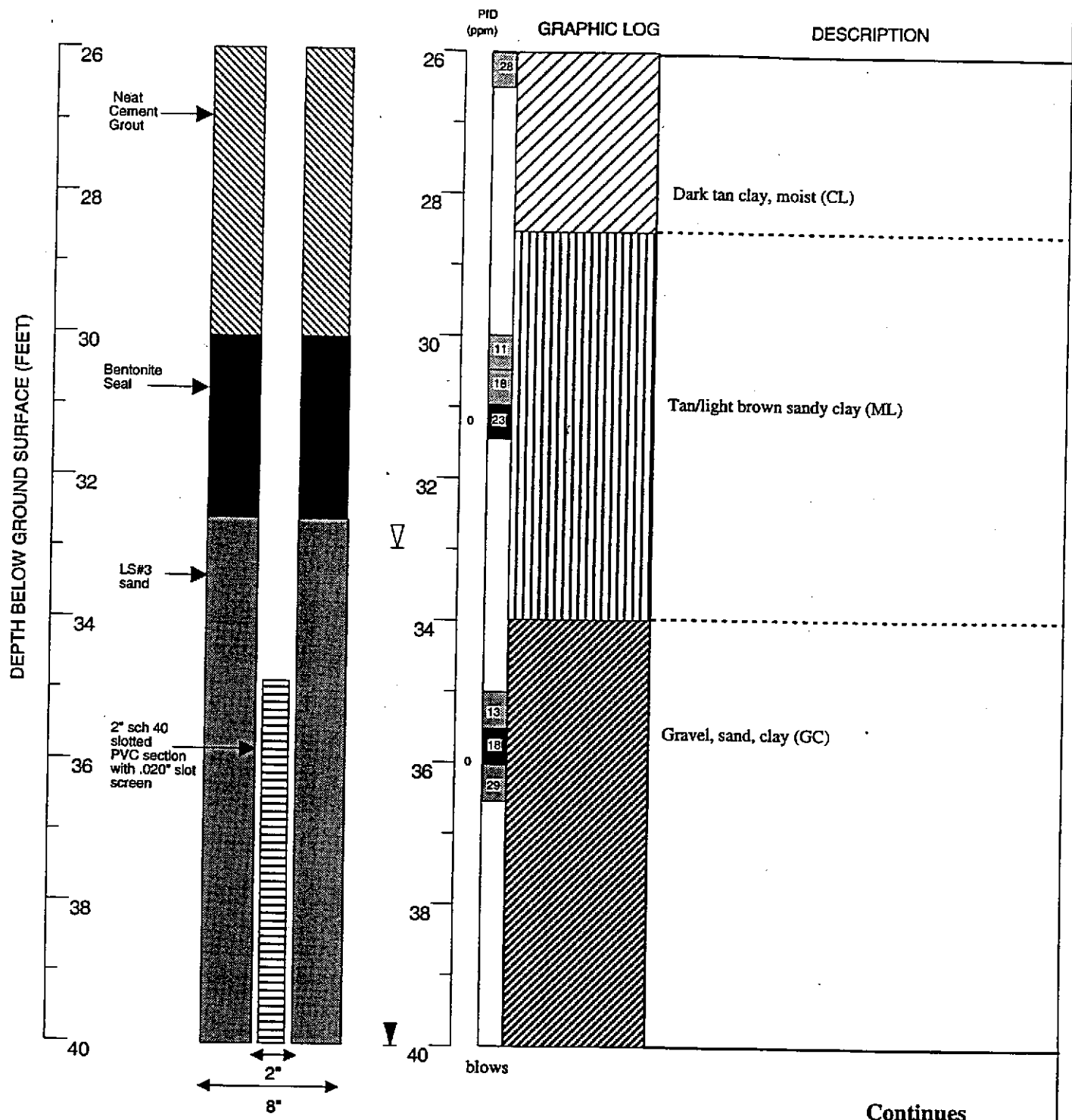
ARTESIAN ENVIRONMENTAL CONSULTANTS
3175 KERNER BOULEVARD, SUITE E, SAN RAFAEL, CALIFORNIA 94901 (415) 257-4801

MONITOR WELL

9

110-01-01

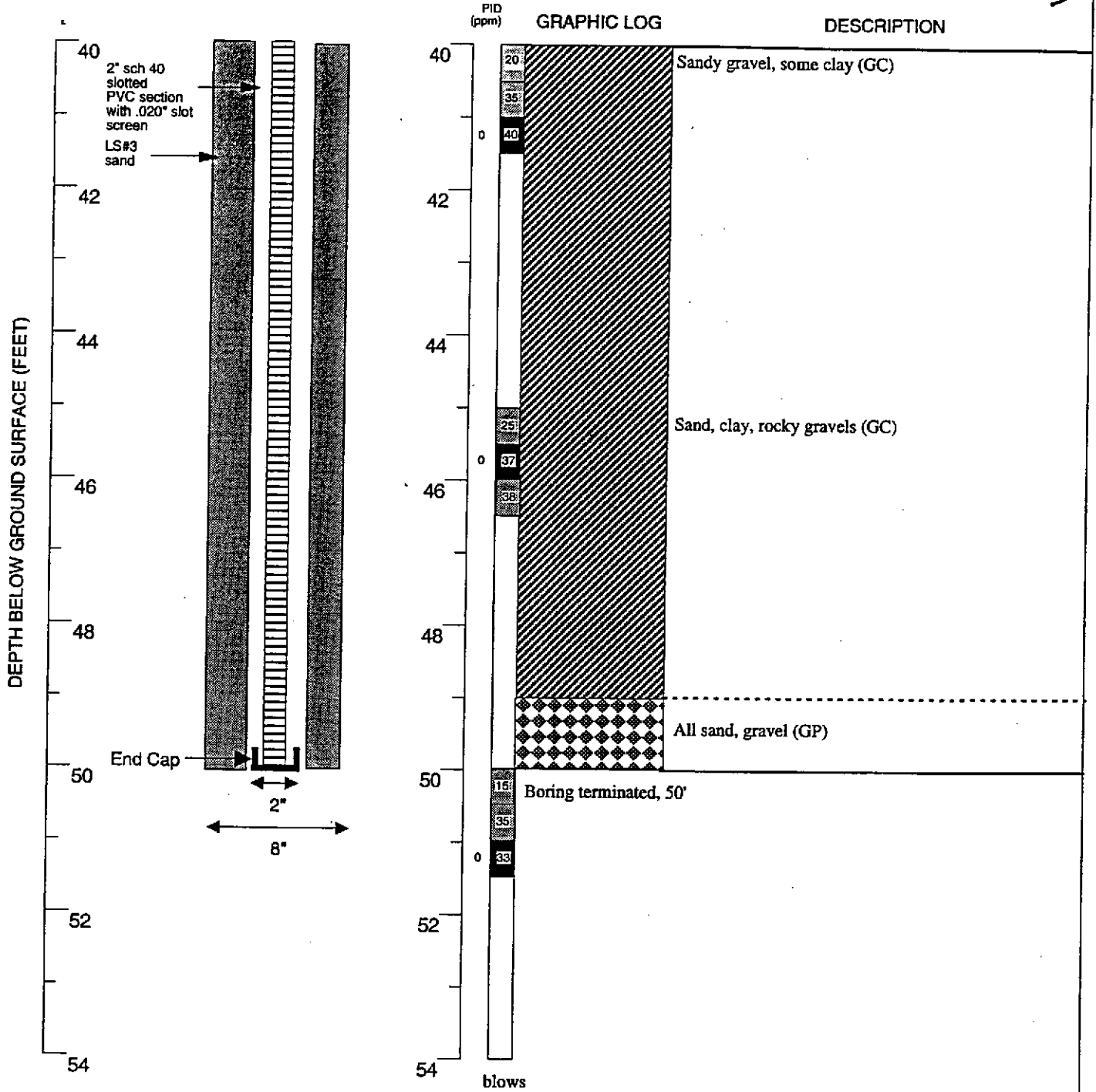
2513W 10 Q 15



Continues

EXPLANATION		Boring Log and Well Completion Details MW-9	MONITOR WELL
	Water level during drilling	One Eastmont Mall Oakland, California	9
	Water level in completed well		
	Location of recovered drill sample		
	Location of sample sealed for chemical analysis		
	Sieve sample		
	Grab sample		
	Contacts: Solid where certain		
	Dotted where approximate		
	Dashed where uncertain		
	Hachured where gradational		
	est K Estimated permeability (hydraulic conductivity) 1K = primary 2K = secondary	ARTESIAN ENVIRONMENTAL CONSULTANTS 3175 KERNER BOULEVARD, SUITE E, SAN RAFAEL, CALIFORNIA 94901 (415) 257-4801	
	NR No recovery	110-01-01	

2513W 10Q15



Final Page

EXPLANATION

▼ Water level during drilling	— Contacts: Solid where certain
⚡ Water level in completed well	⋯ Dotted where approximate
■ Location of recovered drill sample	- - - Dashed where uncertain
▲ Location of sample sealed for chemical analysis	//// Hachured where gradational
⊞ Sieve sample	est K Estimated permeability (hydraulic conductivity) 1K = primary 2K = secondary
⊠ Grab sample	NR No recovery

Boring Log and Well Completion Details
MW-9

One Eastmont Mall
Oakland, California

ARTESIAN ENVIRONMENTAL CONSULTANTS
3175 KERNER BOULEVARD, SUITE E, SAN RAFAEL, CALIFORNIA 94901 (415) 257-4801

MONITOR WELL

9

110-01-01

MAP REFERENCE NO. 10

25/3W-10J2

25/3W-10J2

DRILLING CONTR. Skill being learning

No 1390750

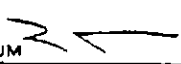
BY: [Signature] DATE: 1-1-91

201 (3) (REV 11-80)

LOCATION OF BORING

Footbill
UDM-1
⊙

Firestone Building



JOB NO. 00443 090 043	CLIENT J.C. Penny - Co	LOCATION Footland
DRILLING METHOD: W. bit P-61 12" hollow auger		BORING NO. DM-1
SAMPLING METHOD: 2" D. bit sampler C.C. Rings		SHEET 1 of 2
WATER LEVEL		DRILLING
TIME		START TIME
DATE		FINISH TIME
CASING DEPTH		DATE

DATUM ELEVATION

SAMPLER TYPE	INCHES DRIVEN	DEPTH OF CASING	SAMPLE NO	BLOWS/FT SAMPLER	NUMBER OF RINGS	DEPTH IN FEET	SOIL GRAPH	SURFACE CONDITIONS:
DM	12	4 1/2	A	20	1202	0	Asphalt	Asphalt
						1		Asphalt
						2	CL	Reddish brown, silty clay w/ some gravels stiff, moist
						3		
						4	CL	Yellowish red, silty clay very stiff moist with some coarse sands
DM	12	4 1/2	A	20	1202	5		
						6		
						7		
						8		
						9		
DM	17	9 1/2	B	12	1212	10	ML CL	Yellowish red to brownish yellow, clayey silt w/ some hard moist, poorly graded medium grain sand
						11		
						12		
						13		
DM	16	15	C	15		15	ML CL	Brownish yellow clayey silt w/ sand hard, moist w/ some angular cobbles
						16		
						17		
						18		
						19		
						20		Water encountered

MAP REFERENCE NO. 10

LOCATION OF BORING

JOB NO.

CLIENT

LOCATION

CC443090043

J.C. Penney

Cockburn

Co - Pg 1

DRILLING METHOD:

BORING NO.

DM-1

SAMPLING METHOD:

SHEET

2 OF 2

DRILLING

START TIME

FINISH TIME

WATER LEVEL

TIME

DATE

CASING DEPTH

DATE

DATE

4/1/61

4/1/61

DATUM

ELEVATION

SURFACE CONDITIONS:

SAMPLER TYPE	INCHES DRIVER RECOVERED	DEPTH OF CASING	SAMPLE NO	BLOWS/FT SAMPLER	NUMBER OF RINGS	DEPTH IN FEET	SOIL GRAPH
						20	
						1	
						2	
						3	
						4	
						5	
						6	
						7	
						8	
						9	
						30	
						1	
						2	
						3	
						4	
						5	
						6	
						7	
						8	
						9	
						10	

Brownish yellow sandy clay cuttings -

Bottom of Boring 28'

DRILLING CONTR.

No. 139076

CHK'D BY

DATE

REV 51-801

MAP REFERENCE NO. 10

permit # 91164
 Kriebel 1545
 057 422-390
 (415) 208-1354

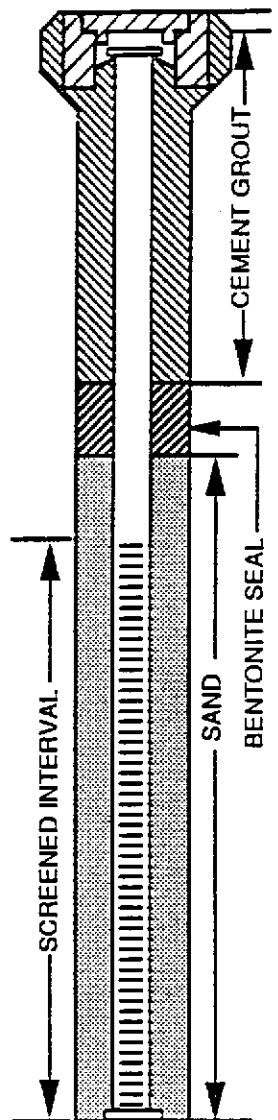
DM-1

DATE DRILLED: 4/1/91

DEPTH IN FEET	SAMPLING		
	HNu (ppm)	TYPE OF SAMPLER	SAMPLING RESISTANCE
0			
5	0	U	70
10		U	95
15		U	90
20			
25			
30			
35			



SYMBOLS	DESCRIPTION
	ASPHALT
CL	REDDISH BROWN SILTY CLAY with some gravel (moist) (stiff)
CL	YELLOWISH RED SILTY CLAY with some coarse sand (moist) (very stiff)
ML	YELLOWISH RED TO BROWNISH YELLOW CLAYEY SILT with poorly graded, medium-grained sand (moist) (dense)
	Grades with angular cobbles



NOTES:

1. Boring completed at a depth of 28.0 feet on 4/1/91.
2. 4-inch PVC observation well installed to a depth of 28.0 feet; screened interval from 13.0 to 28.0 feet.
3. Sampling resistance is measured in blows per foot required to drive the sampler 12 inches with a 140 lb. hammer falling 30 inches after sampler has been seated 6 inches.
4. Boring log indicates interpreted subsurface conditions only at the location and the time the boring was drilled.
5. For an explanation of terms used see the Soil Classification Chart and Key to Test Data.

LOG OF BORING
 Dames & Moore

LOCATION OF BORING: **2533W 1053**
Super site

DATUM: *N*

ELEVATION: *1300 ft*

DM-2

JOB NO. **00443090** CLIENT **J H Parroy** LOCATION **Cotland**

DRILLING METHOD: **Winkler B-61** BORING NO. **DM-2**

12" narrow auger SHEET **1 OF 2**

SAMPLING METHOD: **Hand Dash** DRILLING

WATER LEVEL					START TIME	FINISH TIME
TIME					DATE	DATE
DATE						
CASING DEPTH						

No. 139077

BY _____ DATE _____ CHK'D BY _____

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO / SAMPLE DEPTH	BLOWS/FT SAMPLER	NUMBER OF RINGS	DEPTH IN FEET	SOIL GRAPH	SURFACE CONDITIONS:
						0		Working facility
						1	CL	Asphalt
						2		DK Brown, silty clay, stiff, moist w/ trace medium to fine sands
						3		
						4		
						5	CL	Reddish Brown, silty clay, very stiff, moist
						6		
						7		
						8		
						9		
						10	CL	Yellowish red, sandy clay, very stiff, moist w/ fine to coarse sand trace no gravels
						11	CL-SM	Yellowish red, silty sand w/ gravel, dense moist +20-0
						12		
						13		
						14	CL	Brownish yellow clayey silt, very stiff, moist +20-0
						15		
						16		
						17		
						18		
						19		
						20		

LOCATION OF BORING

JOB NO.

CLIENT

LOCATION

00443-90143

T. J. FURRY

Carroll

DRILLING METHOD:

BORING NO.

SAMPLING METHOD:

SHEET

2 OF 2

DRILLING

START FINISH

TIME TIME

WATER LEVEL

TIME

DATE

CASING DEPTH

DATE DATE

See Plan
2S13W 10J3

DATUM

ELEVATION

SURFACE CONDITIONS:

DRILLING CONTR

No. 1391178

BY _____ DATE _____
CHK'D BY _____

SAMPLER TYPE	INCHES DRIVEN INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO SAMPLE DEPTH	BLOWS/FT SAMPLER	NUMBER OF RINGS	DEPTH IN FEET	SOIL GRAPH
						0	
						1	
						2	
						3	
						4	
Dill 18/17	345	E 25'	0915			25	
						6	
						7	
						8	
						9	
						30	
						1	
						2	
						3	
						4	
						5	
						6	
						7	
						8	
						9	
						0	

Brownish yellow silty clay, w. occasional silt
silt inlets.

POB 26'

permit # 91164

DM-2

DATE DRILLED:

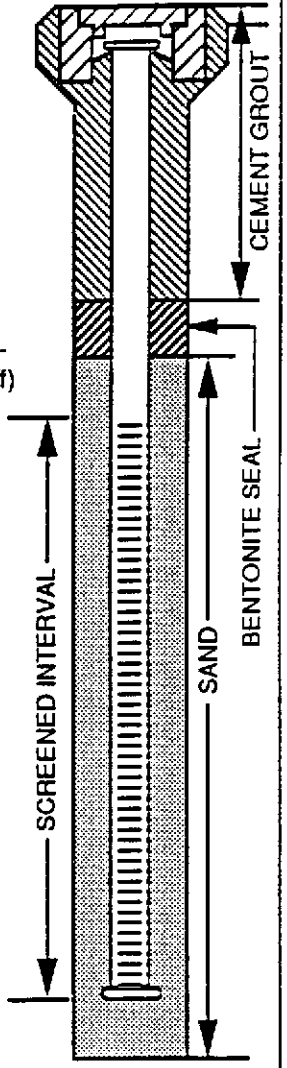
DEPTH IN FEET	SAMPLING		
	HNu (ppm)	TYPE OF SAMPLER	SAMPLING RESISTANCE
0			
5		U	43
10	0	U	67
15	0	U	80
20	0	U	-
25	0	U	-
30			
35			

SAMPLES

SYMBOLS

DESCRIPTION

		ASPHALT
	CL	DARK BROWN SILTY CLAY with trace medium to fine-grained sand (moist) (stiff)
	CL	REDDISH BROWN SILTY CLAY (moist) (very stiff)
	ML	YELLOWISH RED SANDY SILTY with fine to coarse-grained sand and trace pea gravel (moist) (very stiff)
	SM	YELLOWISH RED SILTY SAND with gravel (moist) (dense)
	ML	BROWNISH YELLOW CLAYEY SILT (moist) (very stiff)
		Grades with 1-2 inch gravel lens.



NOTES:

1. Boring completed at a depth of 28.0 feet on 4/1/91.
2. 4-inch PVC observation well installed to a depth of 30.0 feet; screened interval from 23.0 to 28.5 feet.
3. Sampling resistance is measured in blows per foot required to drive the sampler 12 inches with a 140 lb. hammer falling 30 inches after sampler has been seated 6 inches.
4. Boring log indicates interpreted subsurface conditions only at the location and the time the boring was drilled.
5. For an explanation of terms used see the Soil Classification Chart and Key to Test Data.

LOG OF BORING
Dames & Moore

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED