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Alameda County
Environmental Health



ENVIRONMENTAL ENGINEERING, INC.
6620 Owens Drive, Suite A • Pleasanton, CA 94588
TEL (925)734-6400 • FAX (925)734-6401
www.somaenv.com

January 14, 2011

Mr. Jerry Wickham
Alameda County
Department of Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Subject: **Fuel Leak Case#RO0000265**
Site Address: 3609 International Blvd., Oakland, California

Dear Mr. Wickham:

SOMA's "Decommissioning of Wells and Dismantling of Extraction and Treatment Systems" report for the subject property has been uploaded to the State's GeoTracker database and Alameda County's FTP site for your review.

Thank you for your time in reviewing our report. If you have any questions or comments, please call me at (925) 734-6400.

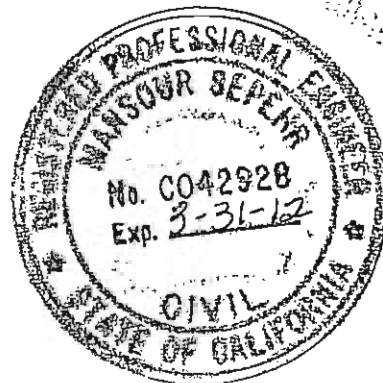
Sincerely,

Mansour Sepéhr, Ph.D., PE
Principal Hydrogeologist

Enclosure

cc: Mr. Abolghassem Razi w/report enclosure
Tony's Express Auto Service

Mr. Vince Tong w/report enclosure
Traction International



**Decommissioning of Wells and
Dismantling of Extraction
and Treatment Systems**

**3609 International Boulevard
Oakland, California**

January 14, 2011

Project 2332

**Prepared for
Mr. Abolghassem Razi
25 N. Terrace
Tiburon, California 94920**

Certification Statement

Chief Executive Officer

Abolghassem Razi
Name


Owner
Title

3609 International Boulevard
Street Address

Oakland
City

94601
Zip

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that the qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.


Signature

01-14-2011
Date

CERTIFICATION

SOMA Environmental Engineering, Inc. has prepared this report on behalf of Mr. Abolghassem Razi, owner of the property located at 3609 International Blvd, Oakland, California, to document SOMA's decommissioning of wells (groundwater monitoring, remediation, soil vapor extraction, air sparging), dismantling of groundwater and soil vapor extraction and treatment systems, and related activities. The work was performed in response to requirements contained in Alameda County Environmental Health Services correspondence dated October 5, 2010, which granted case closure pending completion of above-described well decommissioning and treatment systems dismantling.



Mansour Sepehr, PhD, PE
Principal Hydrogeologist



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1. INTRODUCTION

SOMA Environmental Engineering, Inc. (SOMA) has prepared this report on behalf of Mr. Abolghassem Razi, owner of the property located at 3609 International Boulevard, Oakland, California (APN 33-2177-1-1, Figure 1). The site is bordered generally by commercial and residential property. A summary of previous environmental assessment and remediation activities is included in Appendix A.

This report details SOMA's well decommissioning activities on December 3 and 6, 2010, and dismantling of groundwater and soil vapor extraction and treatment systems in response to requirements in October 5, 2010 correspondence from Alameda County Environmental Health Services (ACEHS), which granted case closure and requested herein-described completion of well decommissioning, systems dismantling and other specified tasks.

2. SCOPE OF WORK

Per above-referenced ACEHS correspondence, all existing wells (groundwater monitoring and remediation, soil vapor extraction [SVE], air sparging) were decommissioned in compliance with California Well Standards and Alameda County specifications. In-ground piping associated with the treatment system was abandoned in place and associated components dismantled and disposed of. All equipment related to environmental work at the site was removed. Wastes generated during the decommissioning process or previous investigations were properly disposed of and the site was cleared of all items related to present and historical environmental investigations and/or remedial activities.

The following tasks were performed to implement the scope of work:

- Task 1: Acquire Permits, Prepare Site Health and Safety Plan
- Task 2: Decommission Wells
- Task 3: Dismantle Groundwater and SVE Extraction and Treatment Systems
- Task 4: Dispose of Waste
- Task 5: Prepare Report

3. PERMIT ACQUISITION, HEALTH AND SAFETY PLAN, SUBSURFACE UTILITY CLEARANCE

Before initiating field activities, SOMA obtained well permits from Alameda County Public Works Department (ACPWD) (permits W2010-0922 through

W2010-0933). On November 29, 2010, ACPWD and ACEHS were given required 72-hour notice in advance of drilling and a well grouting inspection was scheduled with Vicky Hamlin, ESA. Verbal permission for off-site access was acquired from the property manager of the parking lot where MW-12 was located and from the current renter of the adjacent property where MW-11 was located. Permits are included in Appendix B.

Before conducting field activities, a site-specific health and safety plan (HASP) was prepared by SOMA. The HASP is a requirement of the Occupational Safety and Health Administration (OSHA), "Hazardous Waste Operation and Emergency Response" guidelines (29 CFR 1910.120) and the California Occupational Safety and Health Administration (Cal/OSHA) "Hazardous Waste Operation and Emergency Response" guidelines (CCR Title 8, section 5192). It is designed to address safety provisions during field activities and protect the field crew from physical and chemical hazards resulting from drilling and sampling. It establishes personnel responsibilities, general safe work practices, field procedures, personal protective equipment standards, decontamination procedures, and emergency action plans. Field staff and contractors reviewed and signed the HASP prior to beginning field operations.

On November 30, 2010, prior to well decommissioning activities, SOMA's field crew visited the site and marked well locations, using chalk-based white paint. Underground Service Alert (USA) clearance verifying that drilling areas were clear of underground utilities was obtained on November 30, 2010 (Tickets 358944, 358949, and 358956).

4. WELL DECOMMISSIONING

On December 3 and 6, 2010, SOMA's field geologist oversaw decommissioning of 24 wells (monitoring wells MW-1 through MW-8 and MW-10 through MW-12, air sparging wells AS-1 through AS-5 (original permit W2005-1008)), SVE wells SVE-1 through SVE-3 (original permit W2005-1089)), and French drain risers FD-East, FD-Center, and FD-West) by Fisch Drilling (C-57 683865) in accordance with California Well Standards. (Note: former vapor extraction probes (P-1 through P-4) were no longer present at the site.)

All wells except MW-11 were decommissioned by tremie grouting the borings with Type I/II cement grout or a Type I/II cement/bentonite grout mixture. The French drain risers and EX-1 extraction pumps were removed and the wells were tremie grouted with a thicker cement/bentonite grout mixture as approved by ACPWD. Well boxes were removed at each location and wells were completed to grade with concrete.

Because of limited access to its location in the fenced-in area on East 12 Street, MW-11 was decommissioned by pressure grouting the boring with bentonite grout. The pressure grouting was accomplished by pumping grout into the well

and holding under pressure at 25 psi for 5 minutes. The well was finished to grade with concrete. State well completion reports were submitted (Appendix B). Photographs taken during well decommissioning are included in Appendix C.

5. DISMANTLING OF GROUNDWATER AND SOIL VAPOR EXTRACTION AND TREATMENT SYSTEMS

The groundwater and soil vapor extraction and treatment systems were dismantled, and pumps and all equipment were removed from the site. In-ground piping was abandoned in place. Removed piping was disposed of off-site. Between December 3, 2010 and December 10, 2010, SOMA dismantled and removed the groundwater and soil vapor extraction and treatment system related equipment and piping. Liquid and vapor carbon tanks and drums were off-hauled by Baker Tank Corp. on December 10, 2010.

On December 16, 2010, SOMA oversaw repair of cracked/sunken concrete above the former SVE trench. Jim's Quality Paving performed concrete restoration; photographs of the restoration are included in Appendix C. On January 11, 2011, SOMA grouted the area of former vent piping associated with the former treatment system (Appendix C).

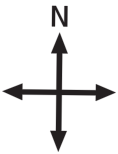
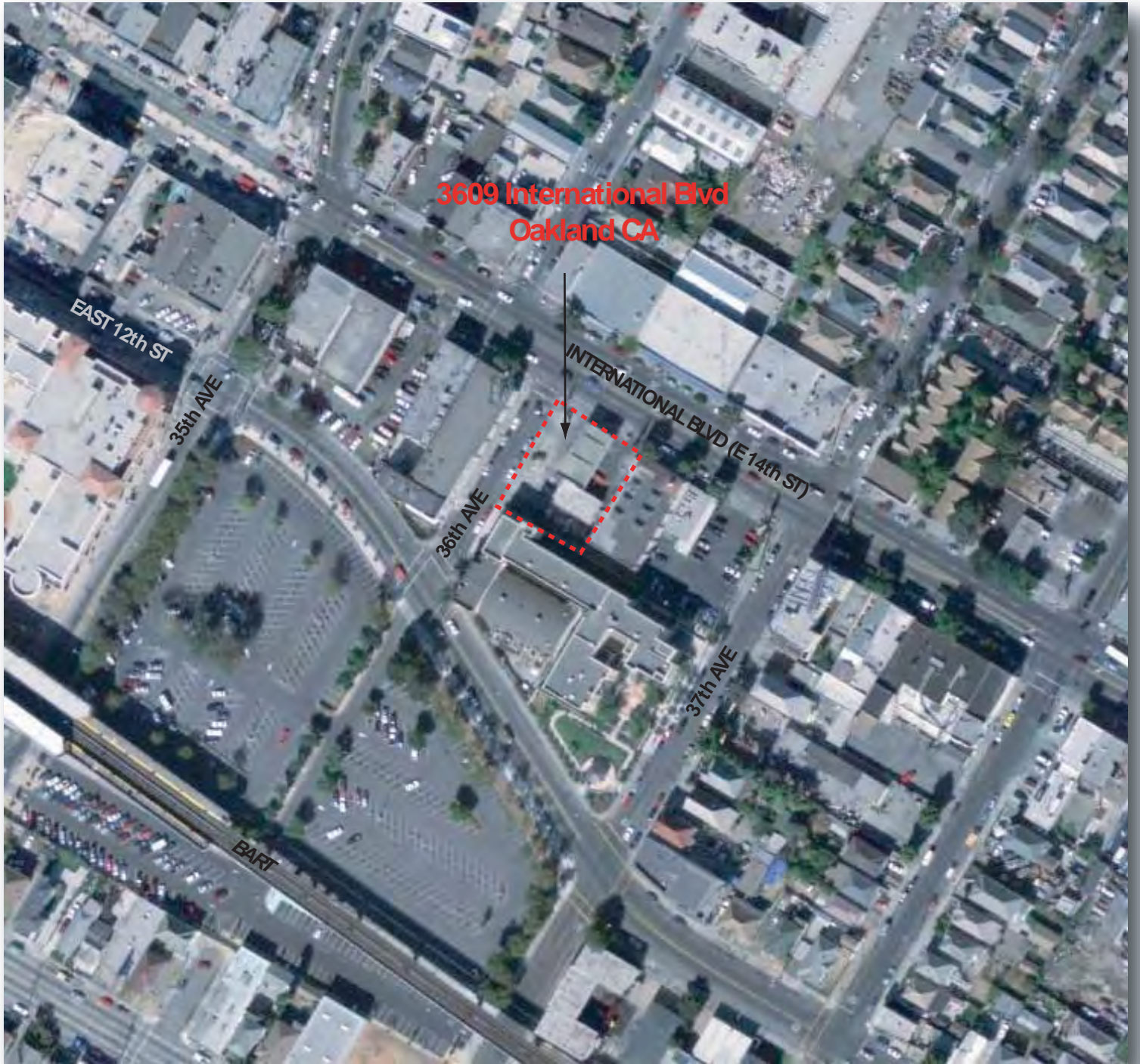
6. WASTE DISPOSAL

Waste generated during well decommissioning was temporarily stored on-site in 55-gallon drums. On December 20, 2010, four 55-gallon drums of non-hazardous solid waste (well construction material) and one 55-gallon drum of non-hazardous liquid waste (purge water) were transported from the site to a licensed disposal facility (waste manifest, Appendix D).

7. CONCLUSIONS

This report documents that all existing wells have been decommissioned in accordance with California Well Standards and requirements of Alameda County. No wells or remediation equipment remain on-site. All wastes generated during decommissioning and previous environmental investigations have been removed from the site and properly disposed of. All extraction and remediation systems have been dismantled and either abandoned in place or disposed of off-site. Site conditions are in accordance with ACEHS conditions for approval of case closure.

FIGURES



approximate scale in feet

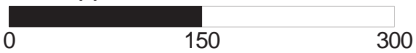
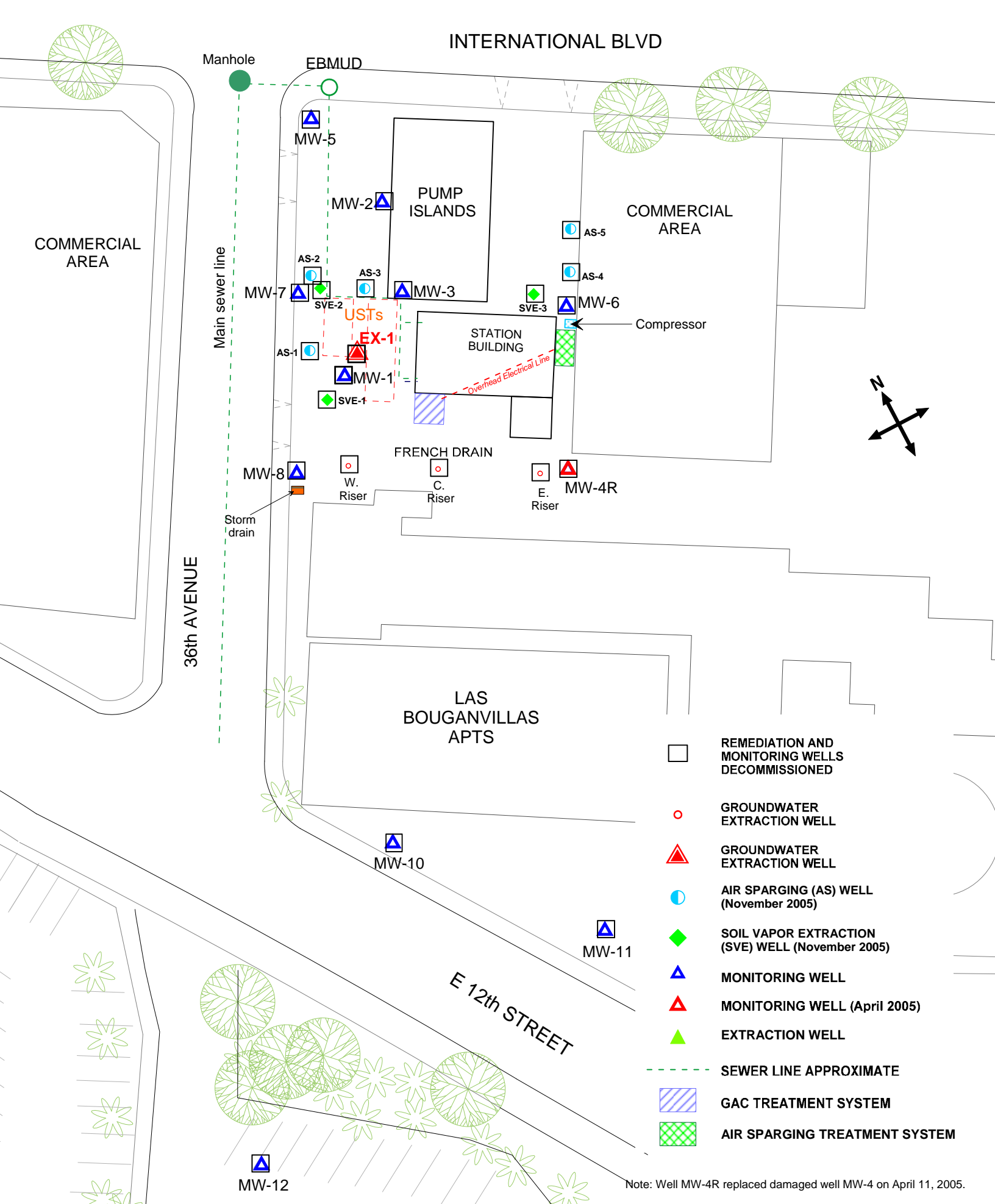


Figure 1: Site vicinity map.



approximate scale in feet

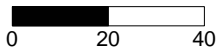


Figure 2: Site Map Showing Locations of Decommissioned Wells

APPENDIX A

Environmental Assessment and Remediation History

Previous Activities

1992: Soil Tech Engineering, Inc. conducted an initial environmental investigation to determine whether soil near the product lines and USTs had been impacted by petroleum hydrocarbons.

July 1993: Soil Tech Engineering, Inc. removed one single-walled 10,000-gallon gasoline UST, one single-walled 6,000-gallon gasoline UST, and one 550-gallon waste oil UST, and replaced them with the three double-walled USTs currently beneath the Site: one 10,000-gallon gasoline UST, and two 6,000-gallon gasoline USTs. UST locations are shown in Figure 2.

December 1997: Mr. Razi retained Western Geo-Engineers to conduct additional investigations and quarterly groundwater monitoring, results of which indicated elevated levels of petroleum hydrocarbons and methyl tertiary-butyl ethyl (MtBE) in groundwater.

April 1999: Mr. Razi retained SOMA to conduct groundwater monitoring, risk-based corrective action (RBCA) and corrective action plan (CAP) studies, and soil and groundwater remediation. RBCA study categorized the site as a high-risk groundwater site, thereby warranting soil and groundwater remediation in on- and off-site areas. The source of petroleum hydrocarbons in groundwater was believed to be the USTs removed in 1993, which had stored gasoline. CAP study results indicated that installation of a French drain combined with a vapor extraction system would be the most cost-effective remediation alternative.

August 1999: SOMA installed a French drain and groundwater treatment system to prevent further migration of chemically impacted groundwater. This treatment system has been in operation since early December 1999.

July 2000: Following ACEHS approval, SOMA installed a vapor extraction system as recommended in the CAP document dated July 1, 1999.

January 2002: Environmental Fabric removed old product dispensers and installed new ones in the fuel islands.

July 25, 2003: SOMA installed an additional on-site extraction pump in the western French drain riser, to create a capture zone around the USTs and contain off-site migration in the southwestern corner of the site.

April 1, 2005: SOMA conducted a pilot test to evaluate use of ozone sparging to actively remediate groundwater at the site. The test revealed that the unsaturated zone was permeable enough to allow operation of an ozone sparging system. However, ozone injection, especially in the region of more impacted wells MW-1 and MW-3 in the vicinity of the UST cavity, posed a potential explosion hazard.

Based on safety concerns, air-sparging technology was selected for site remediation.

November 17 to 23, 2005: SOMA oversaw installation of air sparge and vapor extraction wells by Woodward Drilling of Rio Vista, California.

February 22 to March 6, 2006: SOMA oversaw installation of the air sparge system by ACRC, Inc. of San Ramon, California.

February 5, 2007: An extraction well, EX-1, was installed in the vicinity of the UST cavity due to the continued significant contaminant source within this region. The well diameter is 4 inches with an approximate depth of 20 feet.

April 2007: SOMA began extracting groundwater from the new groundwater extraction well EX-1.

Impacted groundwater from the well is being treated and discharged through the granular activated carbon (GAC) system. Increased groundwater contaminant removal within the UST cavity is being achieved since startup of extraction from EX-1. Well and remedial line locations are shown in Figure 2.

December 2007 to October 2008: Following a pilot test in December 2007, SOMA conducted six monthly multi-phase extraction (MPE) events on the site from March through October 2008. As of the October 2008 MPE event, the cumulative total mass of VOCs extracted by MPE from extraction wells is 612.64 lbs; this includes 64 lbs extracted during the December 2007 pilot test, 24.3 lbs during the March 2008 event, 43.06 lbs during the April 2008 event, 46.19 lbs during the May 2008 event, 58.0 lbs during the June 2008 event, 239.48 lbs during the September 2008 Event and 137.61 lbs during the October 2008 Event.

October-November 2008: ACEHS approved SOMA's workplan for vapor intrusion evaluation in their letter dated October 7, 2008. SOMA performed the approved soil vapor sampling on November 14, 2008. TPH-g was elevated in one of the seven soil vapor samples and it was concluded that the fine-grained soils surrounding the French drain were acting as a filter retaining petroleum hydrocarbons. Results of above sampling are summarized in Table A1.

May 2010: SOMA conducted a reevaluation of soil vapor intrusion per request by ACEHS (April 1, 2010), installing four soil vapor probes. Although volatile chemicals may have been present in the subsurface around the French drain area, the calculated hazard index and indoor air concentration of TPH-g did not exceed the established hazard index values for non-carcinogenic chemicals, therefore, the exposure pathway from the contaminant source to the building occupant (receptor) is deemed incomplete and no significant risk to human health from vapor intrusion of TPH-g exists at this time. Therefore, based on

results of current soil gas investigation, SOMA recommended adopting NFA status for this site.

Groundwater monitoring was conducted at the site between December 1997 and Third Quarter 2009. During the Third Quarter 2009 monitoring event, the highest TPH-g concentration was detected at MW-8 at 6,500 µg/L. TPH-g concentrations have decreased in all sampled wells. MtBE concentrations in groundwater have decreased across the site and were observed at concentrations below the ESL. The highest benzene, toluene and xylene concentrations were detected at MW-8 at 120 µg/L, 22 µg/L, and 480 µg/L. The highest ethyl benzene was detected in MW-6 at 70 µg/L.

The GAC and SVE systems have been effective in reducing peak contaminant levels beneath the site. Since initial start up, approximately 250.82 lbs of hydrocarbons and 87.78 lbs of MtBE have been removed from groundwater. Approximately 967.2 pounds of petroleum hydrocarbons have been removed from the vadose zone. The treatment system was shut down on January 28, 2010 per CRWQCB directive.

MPE events at the site have effectively reduced contaminant concentrations; a cumulative total mass of VOCs extracted by MPE during pilot testing and the eight subsequent MPE events is 817.34 lbs. Benzene concentrations are dramatically reduced compared to pre-MPE event sampling in the source area.

APPENDIX B

Drilling Permits and Well Completion Reports

Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 11/29/2010 By jamesy

Permit Numbers: W2010-0922 to W2010-0933
Permits Valid from 12/03/2010 to 12/07/2010

Application Id: 1290625149631
Site Location: 3609 International Blvd,

City of Project Site:Oakland

Project Start Date: Oakland CA
12/03/2010
Assigned Inspector: Contact Vicky Hamlin at (510) 670-5443 or vickyh@acpwa.org

Completion Date:12/07/2010

Applicant: SOMA Environmental Engineering, Inc. -

Phone: 925-734-6400

Mansour Sepehr
6620 Owens Drive, Suite A, Pleasanton, CA 94588

Property Owner: Adolghassem Razi
25 N. Terrace, Tiburon, CA 94920

Phone: --

Client: ** same as Property Owner **

	Total Due:	\$4632.00
Receipt Number: WR2010-0404	Total Amount Paid:	\$4632.00
Payer Name : Mansour Sepehr	Paid By: CHECK	PAID IN FULL

Works Requesting Permits:

Remediation Well Destruction-Extraction - 12 Wells
Driller: Fisch Drilling - Lic #: 683865 - Method: press

Work Total: \$265.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth	State Well #	Orig. Permit #	DWR #
W2010-0922	11/29/2010	03/03/2011	AS-1	8.00 in.	2.00 in.	13.00 ft	20.00 ft	2S/3W8	W2005-1088	No Records
W2010-0922	11/29/2010	03/03/2011	AS-2	8.00 in.	2.00 in.	13.00 ft	20.00 ft	2S/3W8	W2005-1088	No Records
W2010-0922	11/29/2010	03/03/2011	AS-3	8.00 in.	2.00 in.	13.00 ft	20.00 ft	2S/3W8	W2005-1088	No Records
W2010-0922	11/29/2010	03/03/2011	AS-4	8.00 in.	2.00 in.	13.00 ft	20.00 ft	2S/3W8	W2005-1088	No Records
W2010-0922	11/29/2010	03/03/2011	AS-5	8.00 in.	2.00 in.	13.00 ft	20.00 ft	2S/3W8	W2005-1088	No Records
W2010-0922	11/29/2010	03/03/2011	C. Riser	6.00 in.	6.00 in.	10.00 ft	20.00 ft	2S/3W8	No Records	No Records
W2010-0922	11/29/2010	03/03/2011	E. Riser	6.00 in.	6.00 in.	10.00 ft	20.00 ft	2S/3W8	No Records	No Records
W2010-0922	11/29/2010	03/03/2011	EX-1	10.00 in.	4.00 in.	3.00 ft	20.00 ft	2S/3W8	W2007-0065	No Records
W2010-0922	11/29/2010	03/03/2011	SVE-1	10.00 in.	4.00 in.	2.00 ft	7.00 ft	2S/3W8	No Records	No Records
W2010-0922	11/29/2010	03/03/2011	SVE-2	10.00 in.	4.00 in.	2.00 ft	7.00 ft	2S/3W8	No Records	No Records
W2010-0922	11/29/2010	03/03/2011	SVE-3	10.00 in.	4.00 in.	2.00 ft	7.00 ft	2S/3W8	No Records	No Records
W2010-0922	11/29/2010	03/03/2011	W. Riser	6.00 in.	6.00 in.	10.00 ft	20.00 ft	2S/3W8	No Records	No Records

Specific Work Permit Conditions

1. Drilling Permit(s) can be voided/ cancelled only in writing. It is the applicant's responsibility to notify Alameda County

Alameda County Public Works Agency - Water Resources Well Permit

Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.

2. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including permit number and site map.
3. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.
4. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
5. Remove the Christy box or similar structure. Pressure Grout with Cement (Less than 30 ft in depth). After the seal has set, backfill the remaining hole with concrete or compacted material to match existing.
6. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.
7. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

Well Destruction-Monitoring - 11 Wells

Driller: Fisch Drilling - Lic #: 683865 - Method: press

Work Total: \$4367.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth	Stata Well #	Orig. Permit #	DWR #
W2010-0923	11/29/2010	03/03/2011	MW-1	8.00 in.	2.00 in.	8.00 ft	30.00 ft	STMW-1	No Records	No Records
W2010-0924	11/29/2010	03/03/2011	MW-10	8.00 in.	2.00 in.	6.00 ft	25.00 ft	STMW-10	No Records	No Records
W2010-0925	11/29/2010	03/03/2011	MW-11	8.00 in.	2.00 in.	6.00 ft	25.00 ft	STMW-11	No Records	No Records
W2010-0926	11/29/2010	03/03/2011	MW-12	10.00 in.	4.00 in.	9.00 ft	30.00 ft	MW-12	No Records	No Records
W2010-0927	11/29/2010	03/03/2011	MW-2	8.00 in.	4.00 in.	8.00 ft	30.00 ft	STMW-2	No Records	No Records
W2010-0928	11/29/2010	03/03/2011	MW-3	8.00 in.	4.00 in.	8.00 ft	30.00 ft	STMW-3	No Records	No Records
W2010-0929	11/29/2010	03/03/2011	MW-4R	8.00 in.	2.00 in.	6.00 ft	27.00 ft	2S/3W8	W05-0391	No Records
W2010-0930	11/29/2010	03/03/2011	MW-5	8.00 in.	2.00 in.	5.00 ft	26.00 ft	STMW-5	No Records	No Records
W2010-	11/29/2010	03/03/2011	MW-6	8.00 in.	2.00 in.	5.00 ft	26.00 ft	STMW-6	No Records	No Records

Alameda County Public Works Agency - Water Resources Well Permit

0931

W2010-0932	11/29/2010	03/03/2011	MW-7	8.00 in.	4.00 in.	5.00 ft	26.00 ft	STMW-7	No Records	No Records
W2010-0933	11/29/2010	03/03/2011	MW-8	8.00 in.	2.00 in.	6.00 ft	26.00 ft	STMW-8	No Records	No Records

Specific Work Permit Conditions

1. Drilling Permit(s) can be voided/ cancelled only in writing. It is the applicant's responsibility to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.

2. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

3. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including permit number and site map.

4. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost and liability in connection with or resulting from the exercise of this Permit including, but not limited to, property damage, personal injury and wrongful death.

5. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

6. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

7. Remove the Christy box or similar structure.

Destroy well by grouting neat cement with a tremie pipe or pressure grouting (25 psi for 5min.) to the bottom of the well and by filling with neat cement to three (3-5) feet below surface grade. Allow the sealing material to spill over the top of the casing to fill any annular space between casing and soil.

After the seal has set, backfill the remaining hole with concrete or compacted material to match existing conditions.

8. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

Alameda County Public Works Agency - Water Resources Well Permit

PROGRAMS AND SERVICES

Well Standards Program

The Alameda County Public Works Agency, Water Resources is located at:

399 Elmhurst Street

Hayward, CA 94544

For Driving Directions or General Info, Please Contact 510-670-5480 or wells@acpwa.org

For Drilling Permit information and process contact James Yoo at

Phone: 510-670-6633

FAX: 510-782-1939

Email: Jamesy@acpwa.org

Alameda County Public Works is the administering agency of General Ordinance Code, Chapter 6.88 . The purpose of this chapter is to provide for the regulation of groundwater wells and exploratory holes as required by California Water Code. The provisions of these laws are administered and enforced by Alameda County Public Works Agency through its Well Standards Program.

Drilling Permit Jurisdictions In Alameda County: There are four jurisdictions in Alameda County.

Location: Agency with Jurisdiction Contact Number

Berkeley City of Berkeley Ph: 510-981-7460

Fax: 510-540-5672

Fremont, Newark, Union City Alameda County Water District Ph: 510-668-4460

Fax: 510-651-1760

Pleasanton, Dublin, Livermore, Sunol Zone 7 Water Agency Ph: 925-454-5000

Fax: 510-454-5728

The Alameda County Public Works Agency, Water Resources has the responsibility and authority to issue drilling permits and to enforce the County Water Well Ordinance 73-68. This jurisdiction covers the western Alameda County area of Oakland, Alameda, Piedmont, Emeryville, Albany, San Leandro, San Lorenzo, Castro Valley, and Hayward . The purpose of the drilling permits are to ensure that any new well or the destruction of wells, including geotechnical investigations and environmental sampling within the above jurisdiction and within Alameda County will not cause pollution or contamination of ground water or otherwise jeopardize the health, safety or welfare of the people of Alameda County.

Permits are required for all work pertaining to wells and exploratory holes at any depth within the jurisdiction of the Well Standards Program. A completed permit application (30 Kb)* , along with a site map, should be submitted at least **ten (10) working days prior to the planned start of work**. Submittals should be sent to the address or fax number provided on the application form. When submitting an application via fax, please use a high resolution scan to retain legibility.

Fees

Beginning April 11, 2005 , the following fees shall apply:

A permit to construct, rehabilitate, or destroy wells, including cathodic protection wells, but excluding dewatering wells (*Horizontal hillside dewatering and dewatering for construction period only), shall cost \$300.00 per well.

A permit to bore exploratory holes, including temporary test wells, shall cost \$200 per site. A site includes the project parcel as well as any adjoining parcels.

Please make checks payable to: **Treasurer, County of Alameda**

Permit Fees are exempt to State & Federal Projects

Applicants shall submit a letter from the agency requesting the fee exemption.

Scheduling Work/Inspections:

Alameda County Public Works Agency (ACPWA), Water Resources Section requires scheduling and inspection of permitted work. All drilling activities must be scheduled in advance. Availability of inspections will vary from week to week and will come on a first come, first served basis. To ensure inspection availability on your desired or driller scheduled date, the following procedures are required:

Please contact **James Yoo at 510-670-6633** to schedule the inspection date and time (You must have drilling permit approved prior to scheduling).

Schedule the work as far in advance as possible (at least 5 days in advance); and confirm the scheduled drilling date(s) at least 24 hours prior to drilling.

Once the work has been scheduled, an ACPWA Inspector will coordinate the inspection requirements as well as how the Inspector can be reached if they are not at the site when inspection is required. Expect for special circumstances given, all work will require the inspection to be conducted during the working hours of 8:30am to 2:30pm., Monday to Friday, excluding holidays.

Request for Permit Extension:

Permits are only valid from the start date to the completion date as stated on the drilling permit application and Conditions of Approval. To request an extension of a drilling permit application, applicants must request in writing prior to the completion date as set forth in the Conditions of Approval of the drilling permit application. Please send fax or email to Water Resources Section, Fax 510-782-1939 or email at wells@acpwa.org. There are no additional fees for permit extensions or for re-scheduling inspection dates. You may not extend your drilling permit dates beyond 90 days from the approval date of the permit application. **NO** refunds shall be given back after 90 days and the permit shall be deemed voided.

Cancel a Drilling Permit:

Applicants may cancel a drilling permit only in writing by mail, fax or email to Water Resources Section, Fax 510-782-1939 or email at wells@acpwa.org. If you do not cancel your drilling permit application before the drilling completion date or notify in writing within 90 days, Alameda County Public Works Agency, Water Resources Section may void the permit and No refunds may be given back.

Refunds/Service Charge:

A service charge of \$25.00 dollars for the first check returned and \$35.00 dollars for each subsequent check returned.

Applicants who cancel a drilling permit application **before** we issue the approved permit(s), will receive a **FULL** refund (at any amount) and will be mailed back within two weeks.

Applicants who cancel a drilling permit application **after** a permit has been issued will then be charged a service fee of \$50.00 (fifty Dollars).

To collect the remaining funds will be determined by the amount of the refund to be refunded (see process below).

Board of Supervisors Minute Order, File No. 9763, dated January 9, 1996, gives blanket authority to the Auditor-Controller to process claims, from all County departments for the refund of fees which do not exceed \$500 (Five Hundred Dollars)(with the exception of the County Clerk whose limit is \$1,500).

Refunds over the amounts must be authorized by the Board of Supervisors Minute Order, File No. 9763 require specific approval by the Board of Supervisors. The forms to request for refunds under \$500.00 (Five Hundred Dollars) are available at this office or any County Offices. If the amount is exceeded, a Board letter and Minute Order must accompany the claim. Applicant shall fill out the request form and the County Fiscal department will process the request.

Enforcement

Penalty. Any person who does any work for which a permit is required by this chapter and who fails to obtain a permit shall be guilty of a misdemeanor punishable by fine not exceeding Five Hundred Dollars (\$500.00) or by imprisonment not exceeding six months, or by both such fine and imprisonment, and such person shall be deemed guilty of a separate offense for each and every day or portion thereof during which any such

violation is committed, continued, or permitted, and shall be subject to the same punishment as for the original offense. (Prior gen. code §3-160.6)

Enforcement actions will be determined by this office on a case-by-case basis

Drilling without a permit shall be the cost of the permit(s) and a fine of \$500.00 (Five Hundred Dollars).

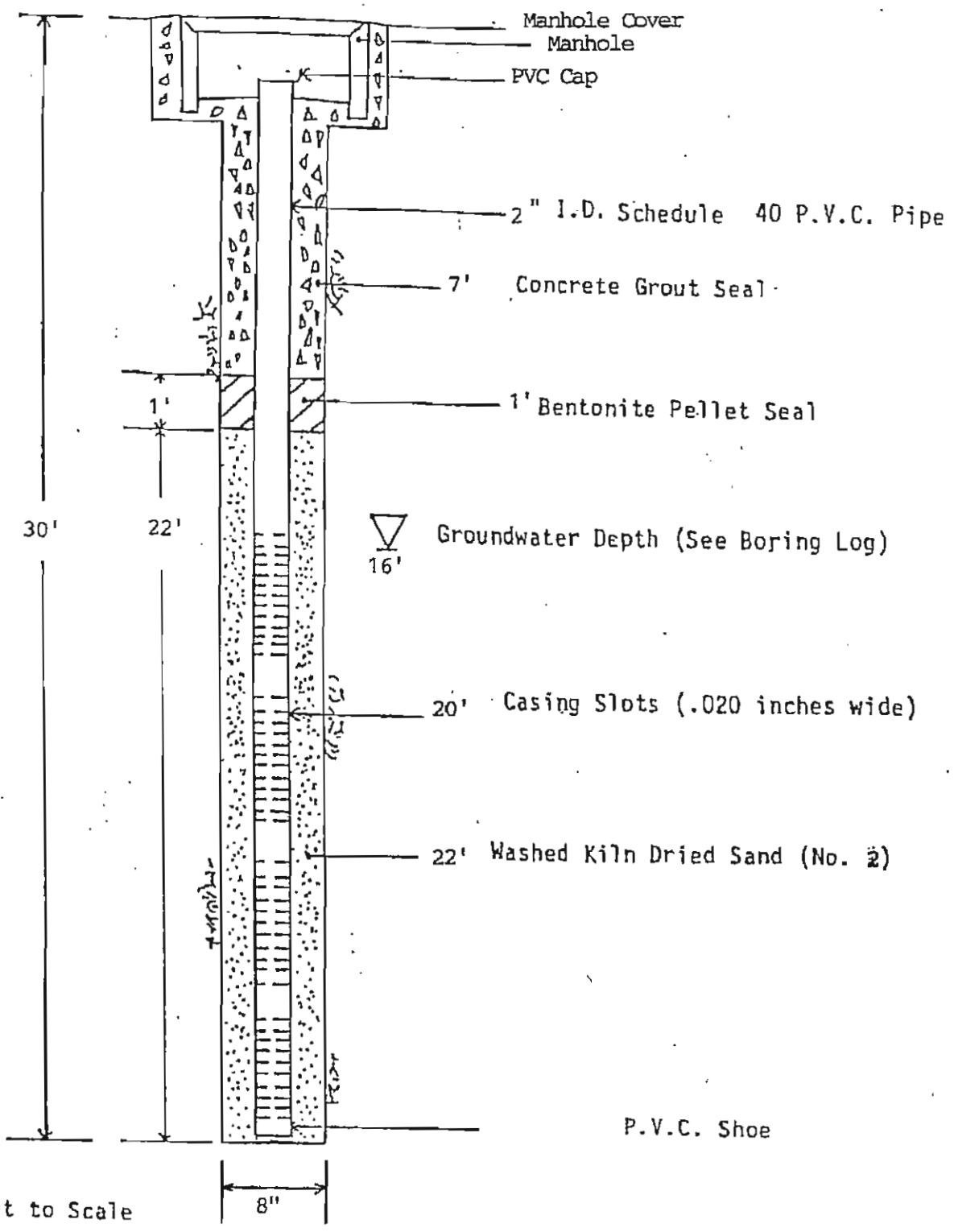
Well Completion Reports (State DWR-188 forms) must be filed with the Well Standards Program within 60 days of completing work. Staff will review the report, assign a state well number, and then forward it to the California Department of Water Resources (DWR). Drillers should not send completed reports to DWR directly. Failure to file a Well Completion Report or deliberate falsification of the information is a misdemeanor; it is also grounds for disciplinary action by the Contractors' State License Board. Also note that filed Well Completion Reports are considered private record protected by state law and can only be released to the well owner or those specifically authorized by government agencies.

See our website (www.accgov.org/pwa/wells/index.shtml) for links to additional forms.

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WELL COMPLETION REPORT
(WELL LOGS)

REMOVED



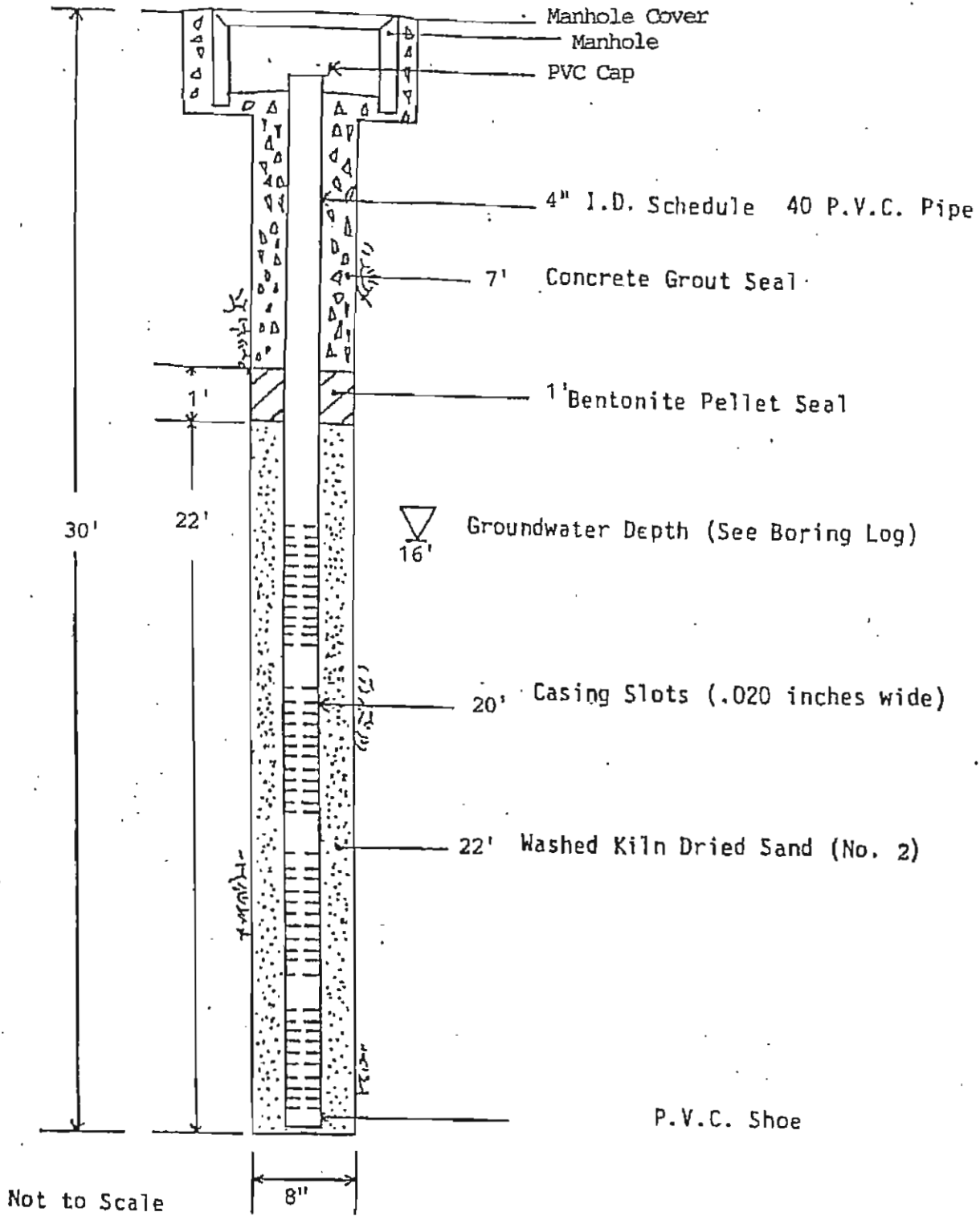
SIMW-1

Piezometer Schematic

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SIMW-2

Piezometer Schematic

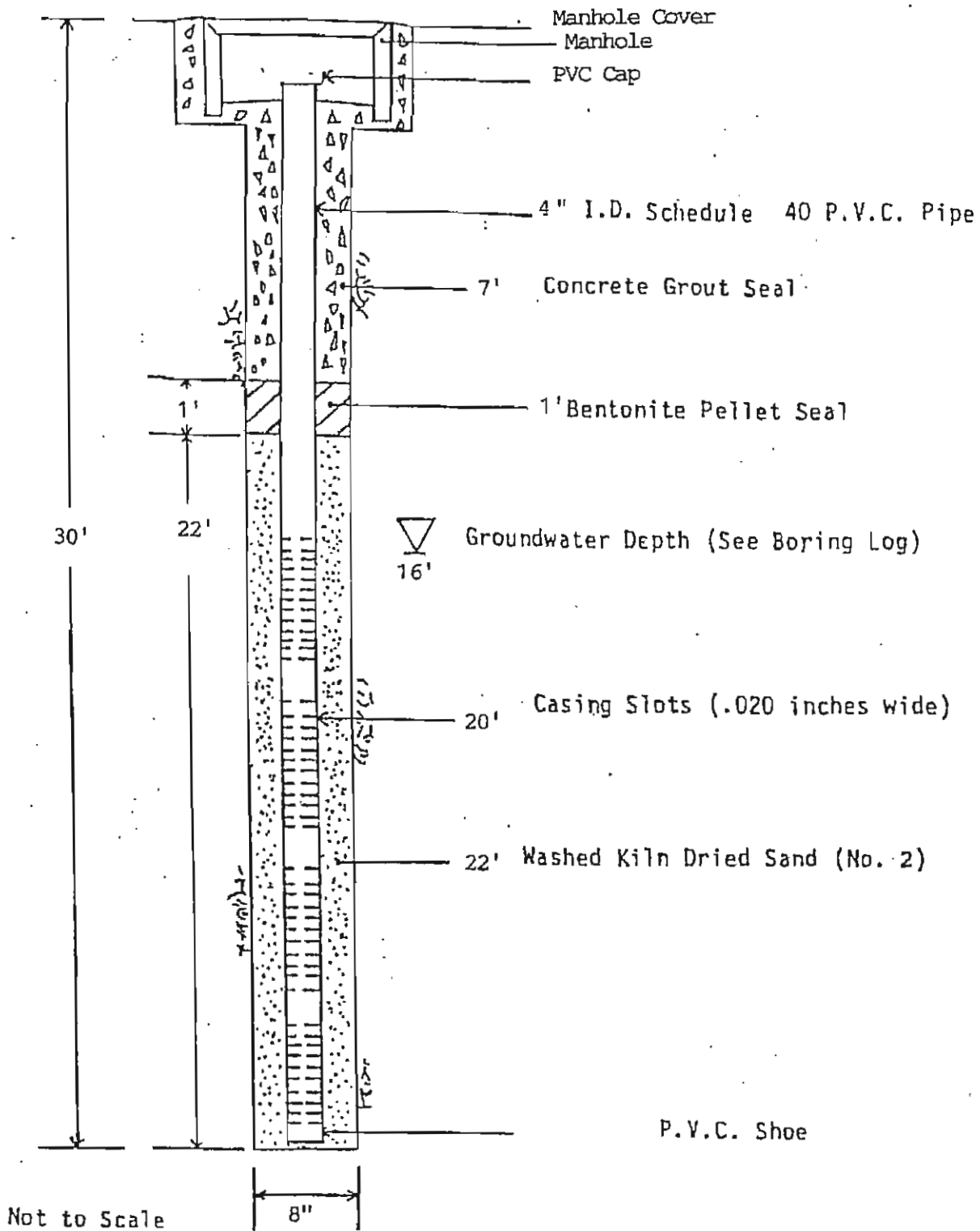
SOIL TECH ENGINEERING, INC.

PS2

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SIMW-3

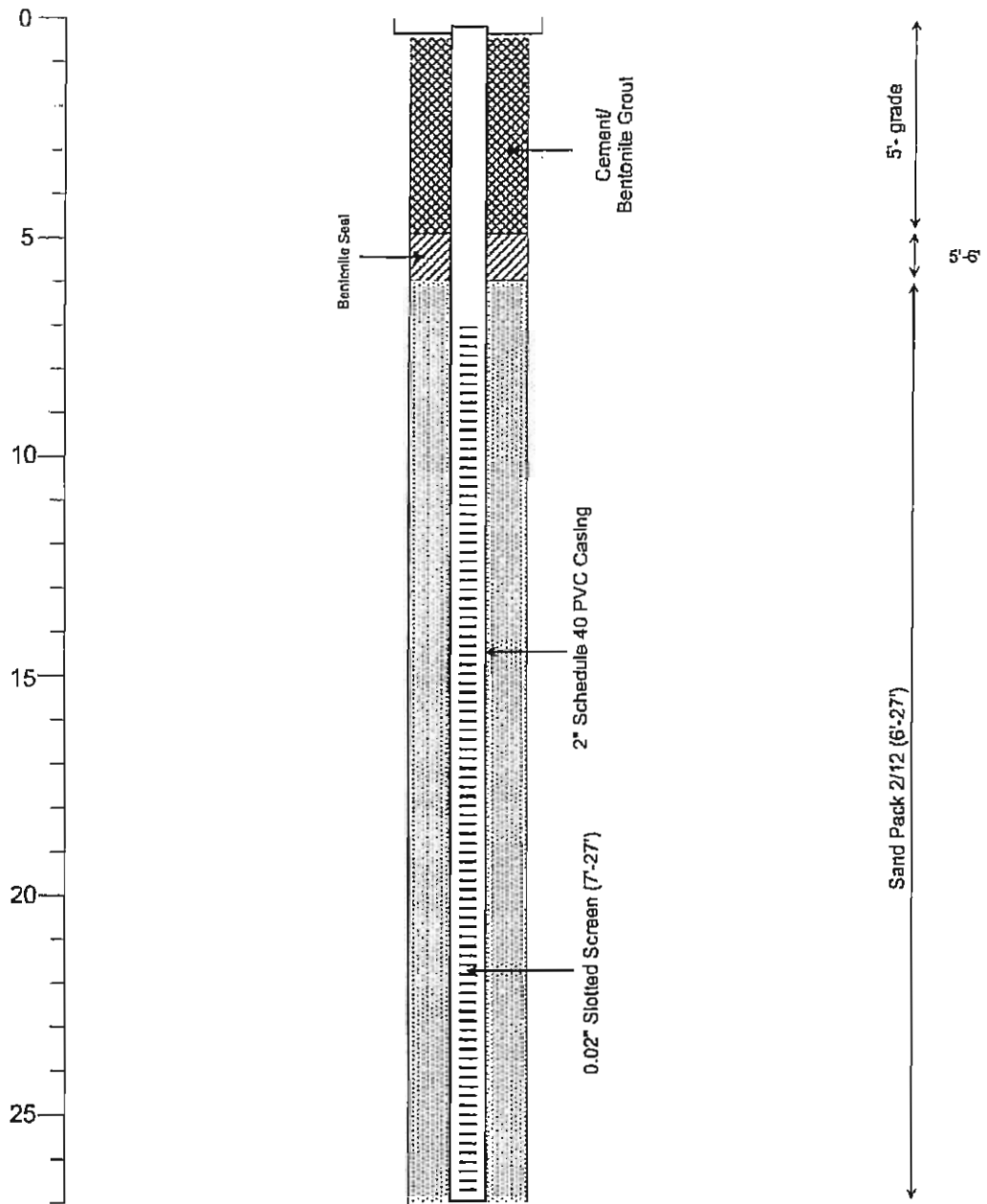
Piezometer Schematic.

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(WELL LOGS)

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MW-4R



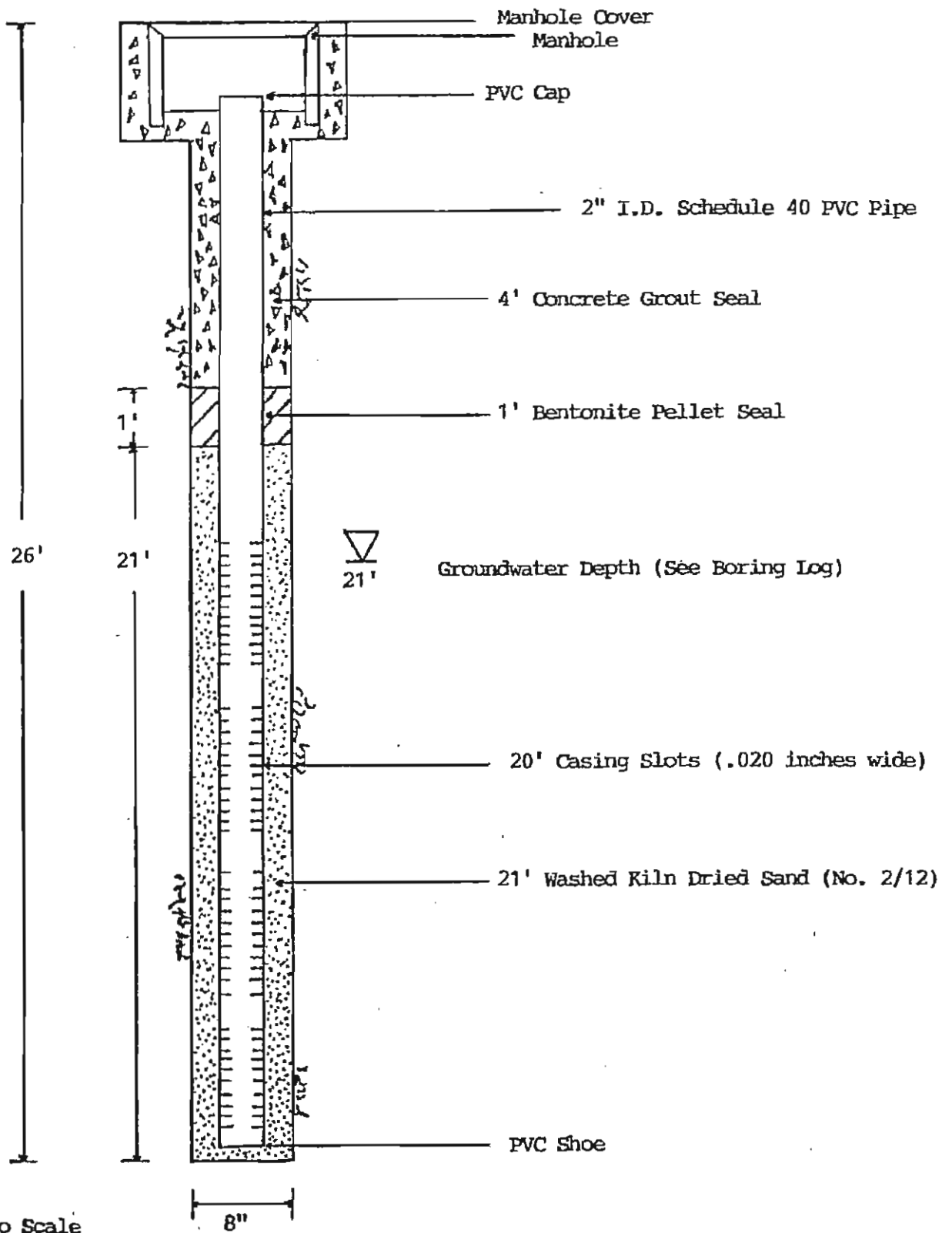
Total Depth 27' bgs

Figure 2: Well Construction Diagram (MW-4R)

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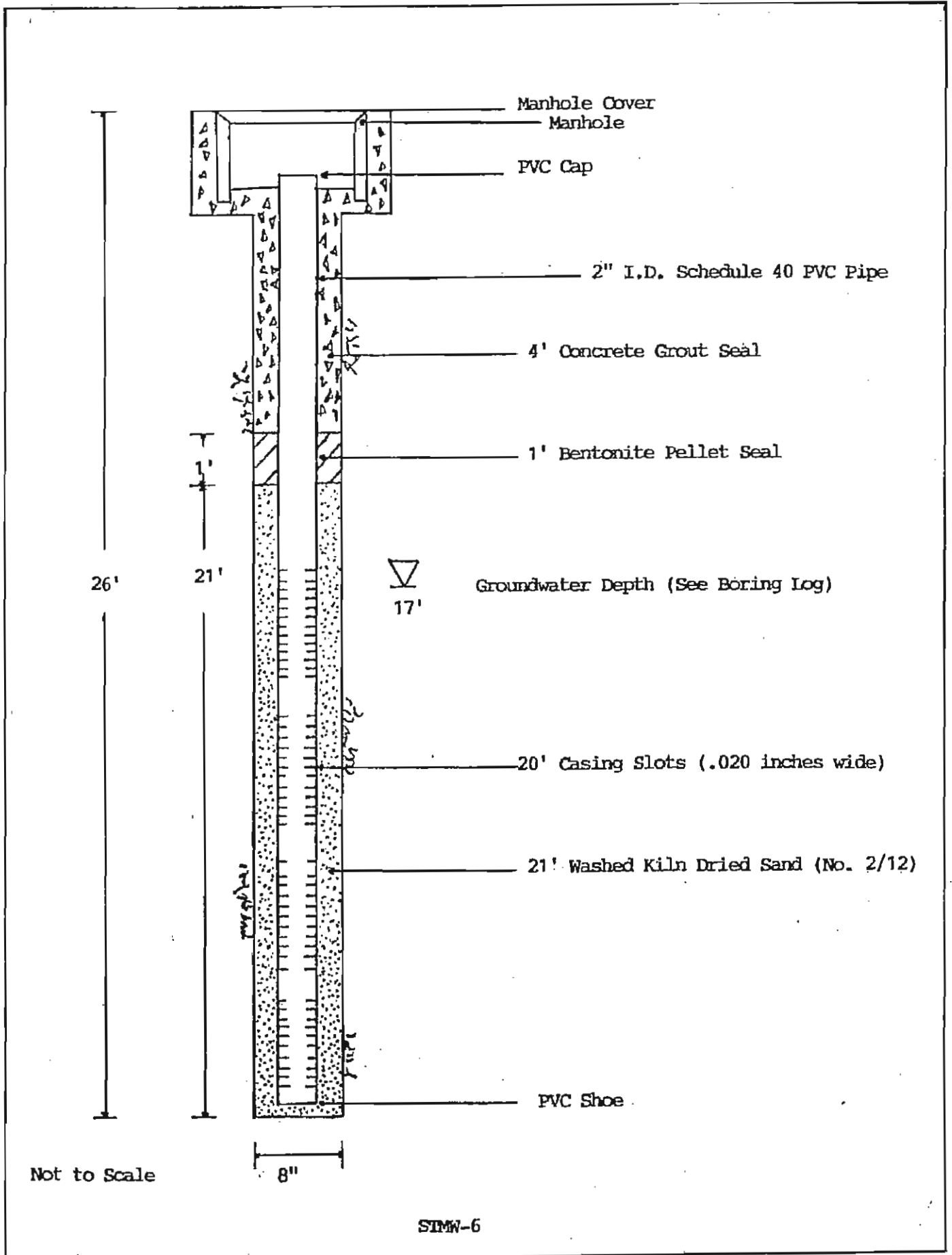


STMW-5

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WELL COMPLETION REPORT
(WELL LOGS)

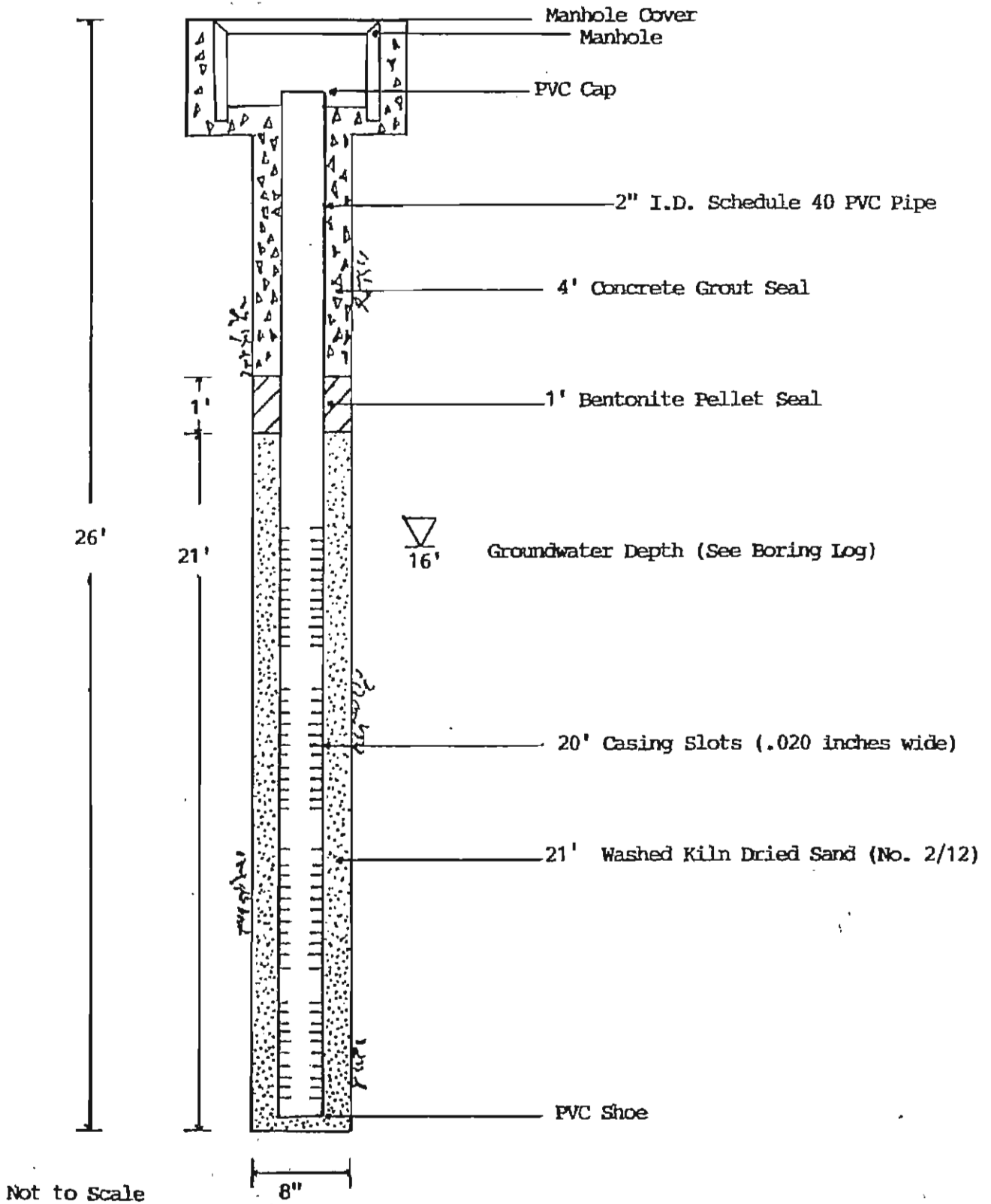
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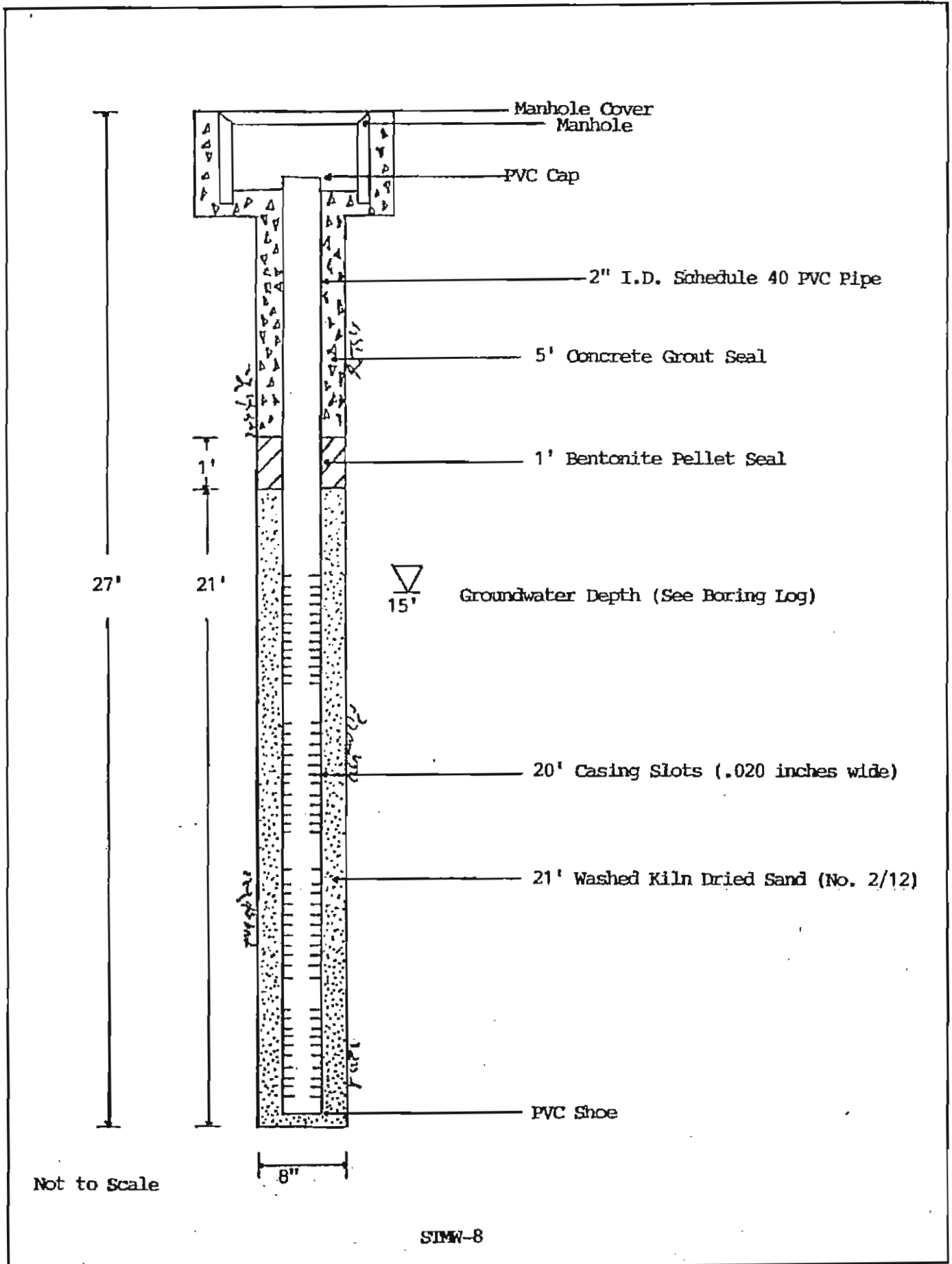


SIMW-7

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(WELL LOGS)

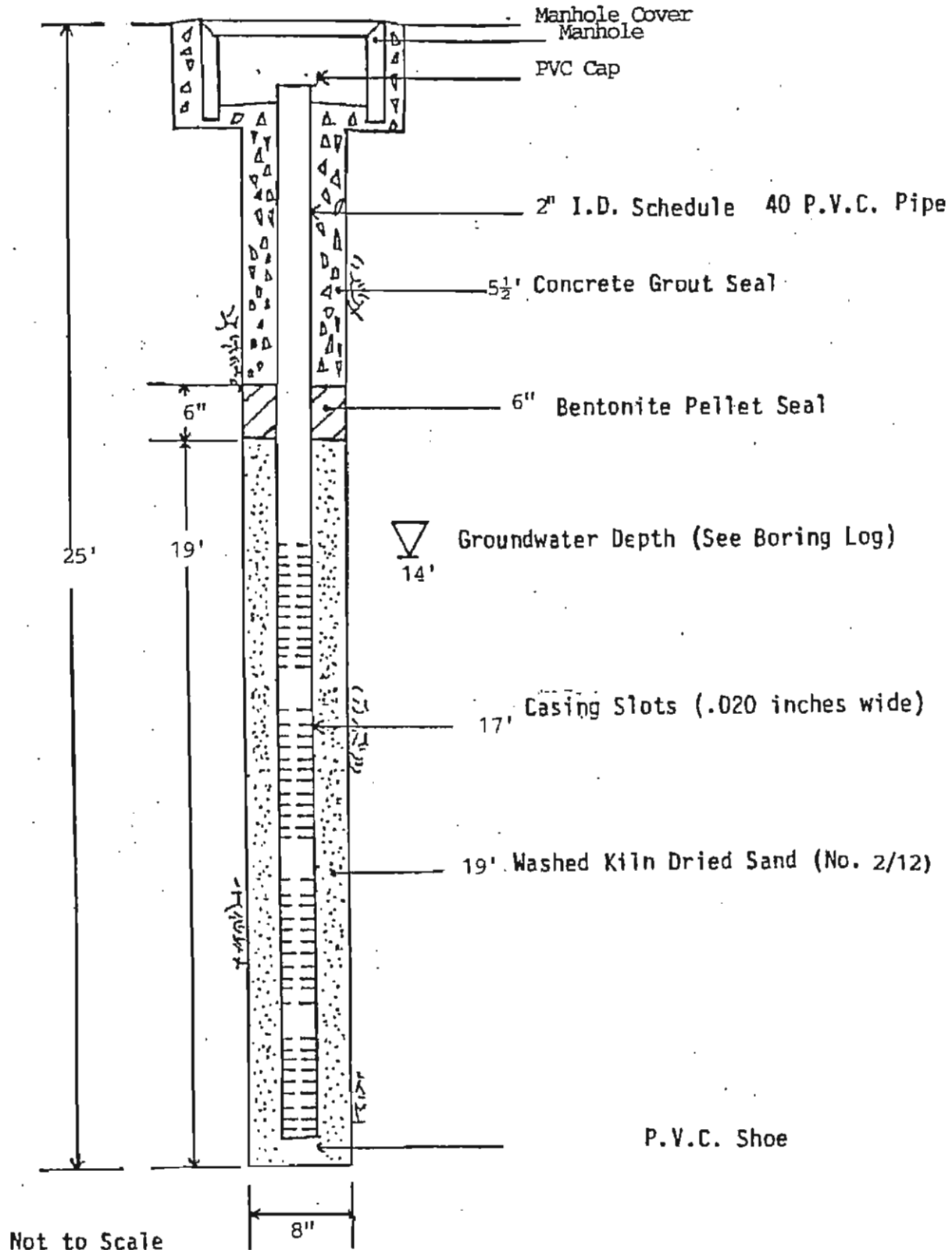
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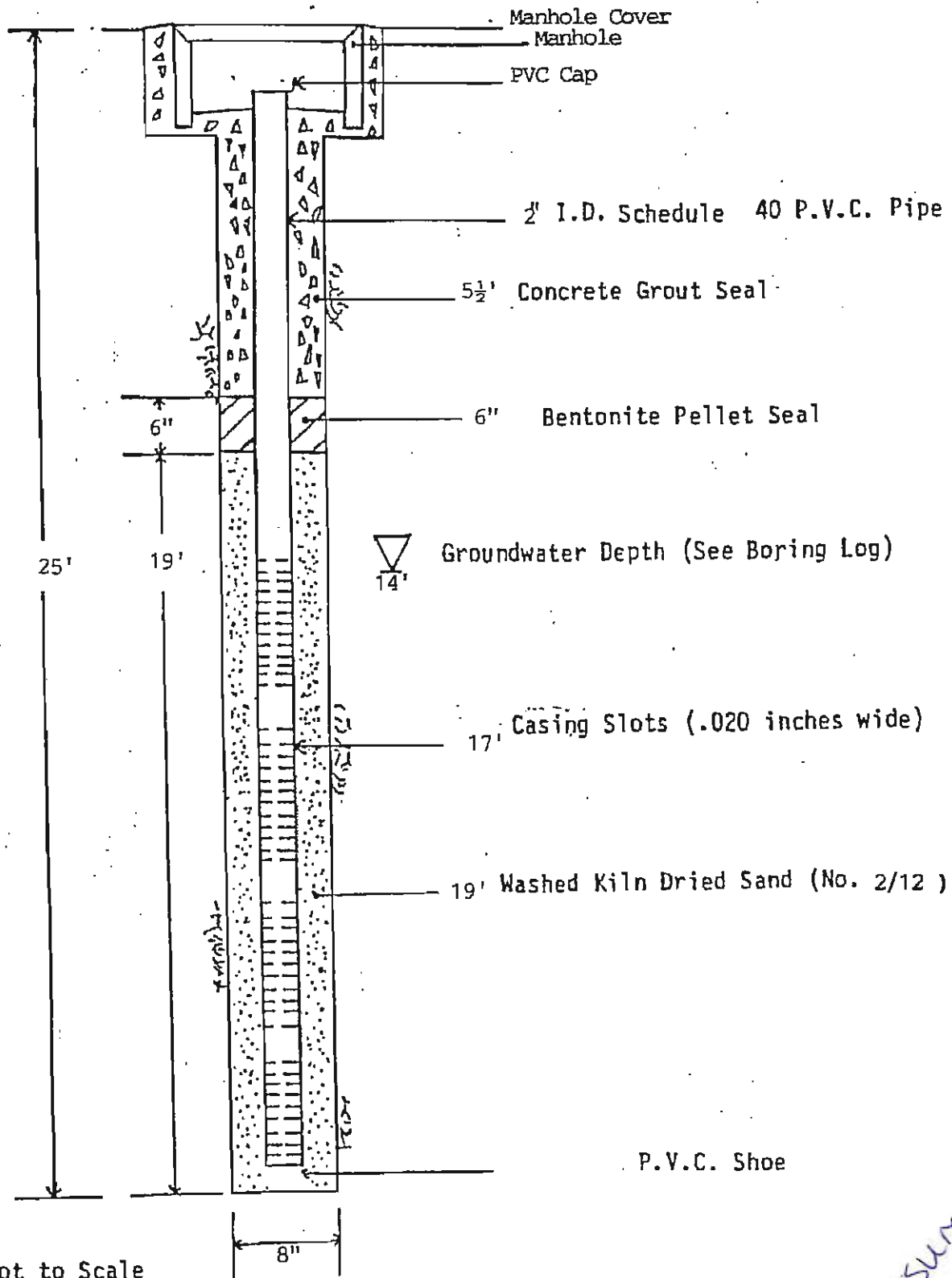


SINW-10

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Not to Scale

SIMW-11

Pressure gauged

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(WELL LOGS)

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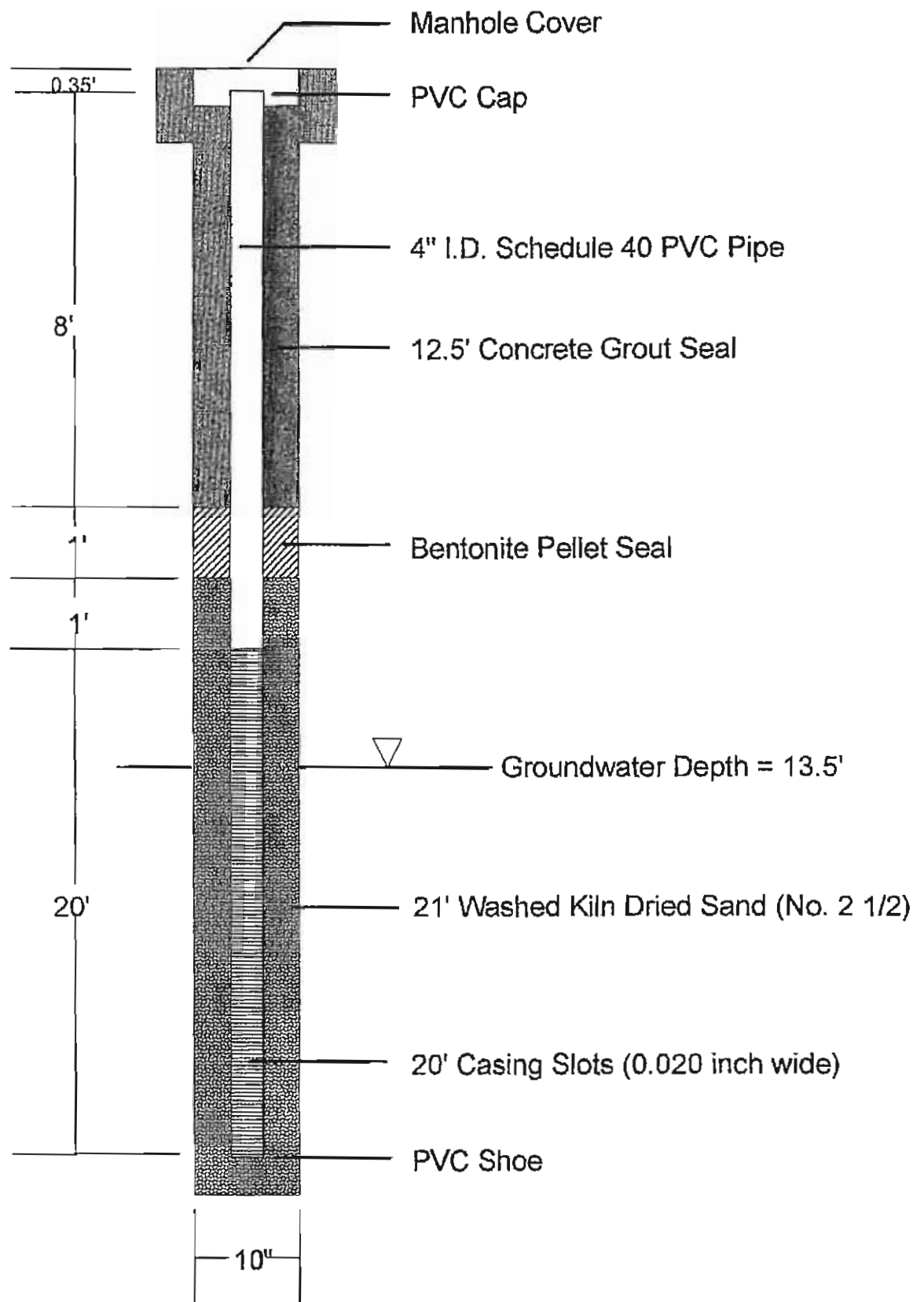


Figure 3 . MW-12 Details

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WELL COMPLETION REPORT
(WELL LOGS)

REMOVED



GEOLOGIC LOG OF BOREHOLE: EX-1

PROJECT: 2332

DATE DRILLED: 02/05/2007

SITE LOCATION: 3609 International Blvd.
Oakland, CA

CASING ELEVATION: 40.51 feet

DRILLER: Gregg Drilling

DEPTH TO GW: 10 feet bgs

DRILLING METHOD: Hollow Stem Auger (HSA)

T.O.C. TO SCREEN: 5 feet

BORING DIAMETER: 10"

SCREEN LENGTH: 15 feet

LOGGED BY: E. Highlower

APPROVED BY: M. Sepehr, Ph.D., P.E.

PID ppm	DEPTH	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	SPLIT SPOON CORE	GW LEVEL	BLOWCOUNTS	WELL DIAGRAM
	0 - 20		GW	Gravel (GW), 5YR 4/1 : Dark gray; loose; moist; medium grained; strong petroleum hydrocarbon (PHC) odor.				<p>Cement Grout</p> <p>4" Schedule 40 PVC Casing/Screen</p> <p>0.02 Staked Screen</p> <p>Moniflow-A</p> <p>Bentonite</p>
	20 - 25		CL	Sandy Clay (CL), 7.5YR4/2: Brown; medium stiff; moist; fine-grained sand; mottling throughout (2.5Y4/3); strong PHC odor.	0 4/0	4 4 4		

COMMENTS: TD @ 20 feet bgs

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WELL COMPLETION REPORT
(WELL LOGS)

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PROJECT: 2332

SITE LOCATION: 3609 International Boulevard, Oakland.

DRILLER: Woodward Drilling Company, Inc.

DRILLING METHOD: Hollow Steam Auger Drilling Technology.

DATE DRILLED: Nov 17-23, 2005

BORING DIAMETER: 8"

LOGGED BY: E Jennings

APPROVED BY: M Sepehr Ph. D., P.E.

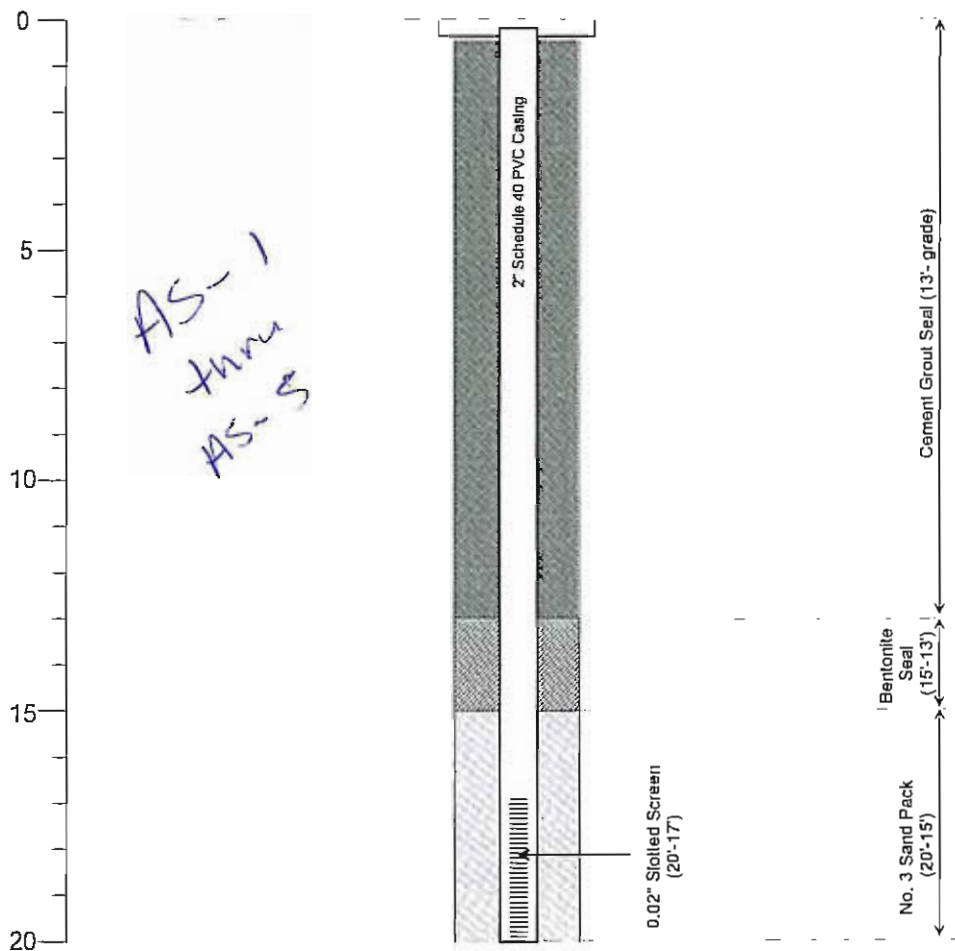


Figure 3: Well Construction Details: Air Sparge Wells

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STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

PROJECT: 2332

DATE DRILLED: Nov 17-23, 2005

SITE LOCATION: 3609 International Boulevard, Oakland.

BORING DIAMETER: 8"

DRILLER: Woodward Drilling Company, Inc.

LOGGED BY: E Jennings

DRILLING METHOD: Hollow Steam Auger Drilling Technology.

APPROVED BY: M Sepehr Ph. D., P.E.

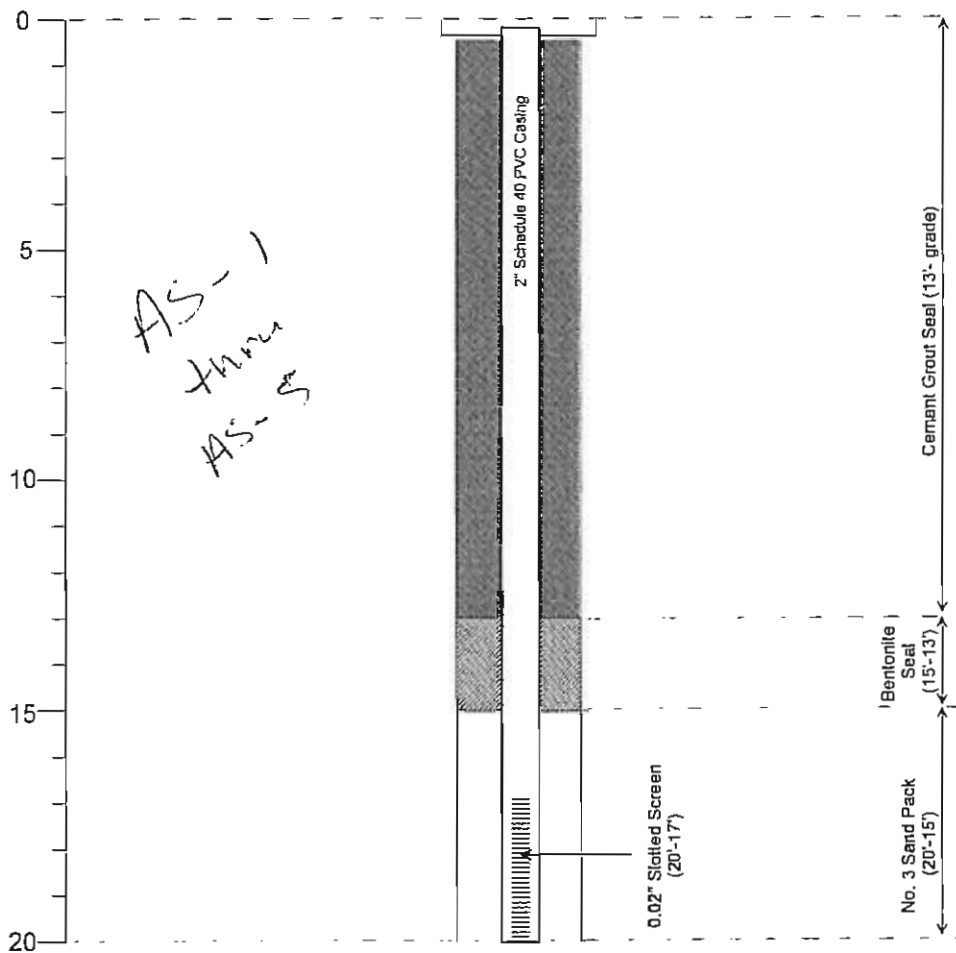


Figure 3: Well Construction Details: Air Sparge Wells

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PROJECT: 2332

DATE DRILLED: Nov 17-23, 2005

SITE LOCATION: 3609 International Boulevard, Oakland.

BORING DIAMETER: 8"

DRILLER: Woodward Drilling Company, Inc.

LOGGED BY: E Jennings

DRILLING METHOD: Hollow Steam Auger Drilling Technology.

APPROVED BY: M Sepehr Ph. D., P.E.

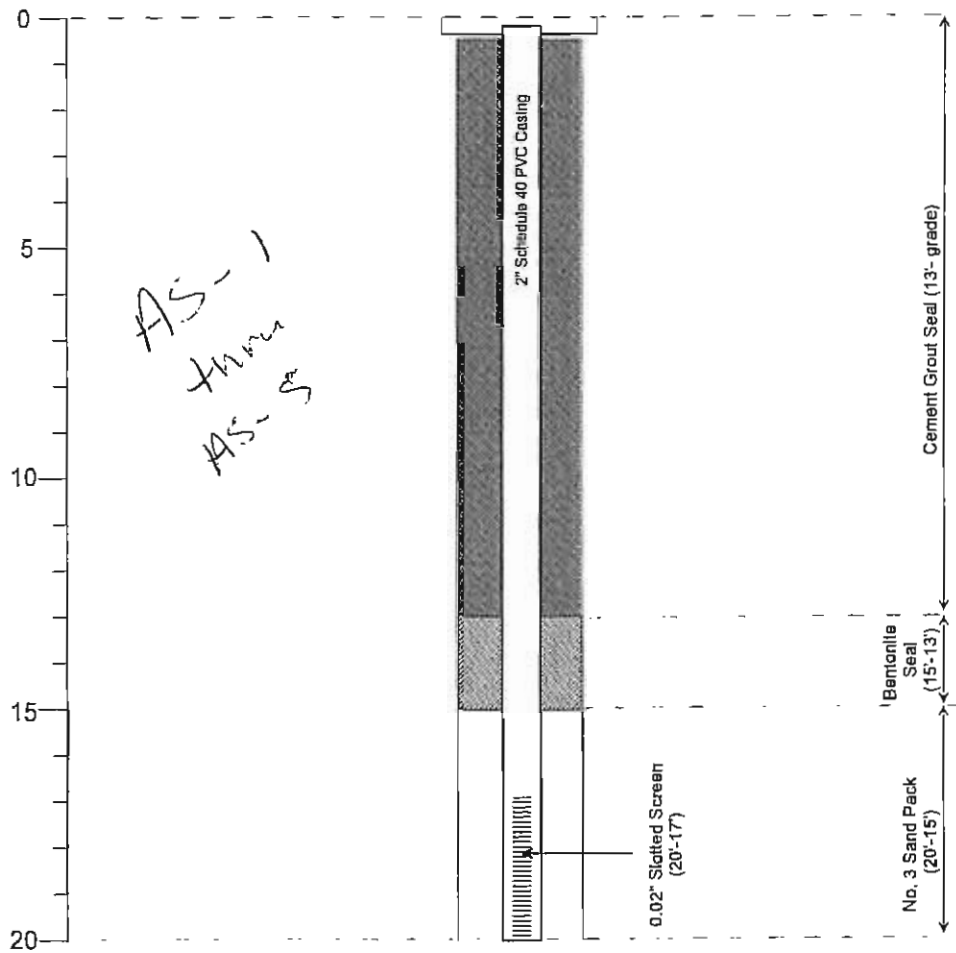


Figure 3: Well Construction Details: Air Sparge Wells

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PROJECT: 2332

DATE DRILLED: Nov 17-23, 2005

SITE LOCATION: 3609 International Boulevard, Oakland.

BORING DIAMETER: 8"

DRILLER: Woodward Drilling Company, Inc.

LOGGED BY: E Jennings

DRILLING METHOD: Hollow Steam Auger Drilling Technology.

APPROVED BY: M Sepehr Ph. D., P.E.

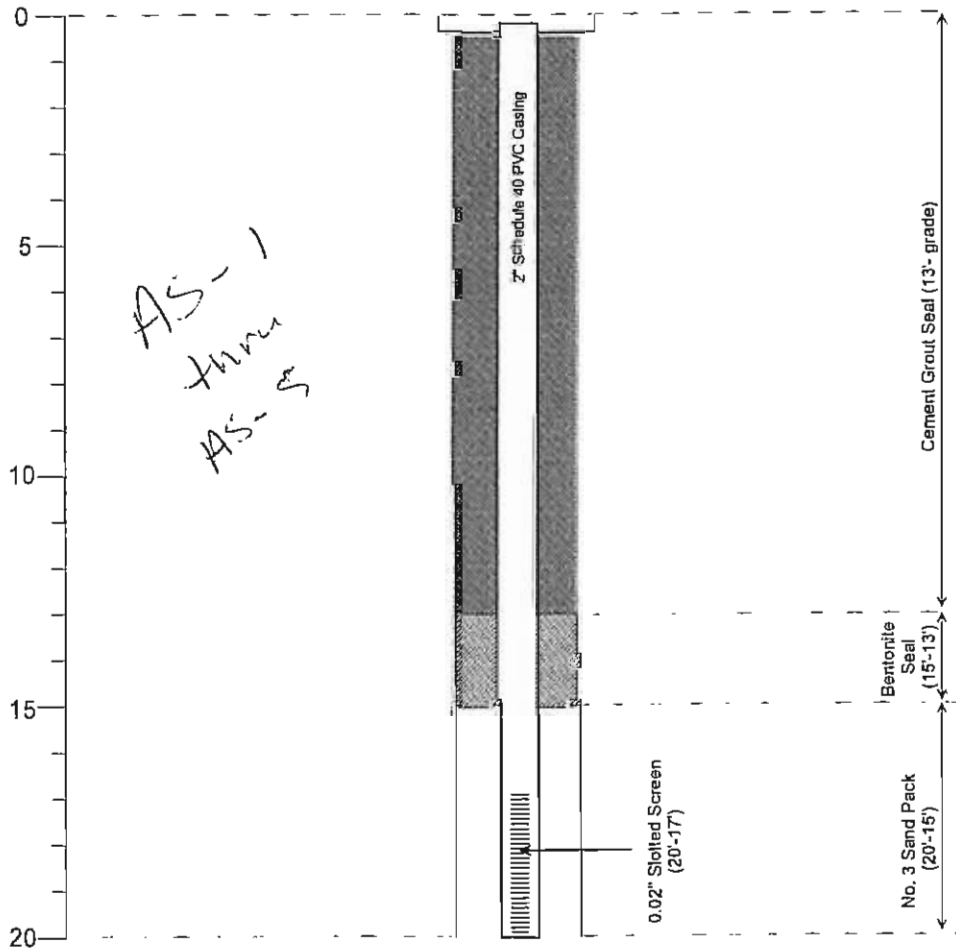


Figure 3: Well Construction Details: Air Sparge Wells

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BORING DIAMETER: 8"

DRILLER: Woodward Drilling Company, Inc.

LOGGED BY: E Jennings

DRILLING METHOD: Hollow Steam Auger Drilling Technology.

APPROVED BY: M Sepehr Ph. D., P.E.

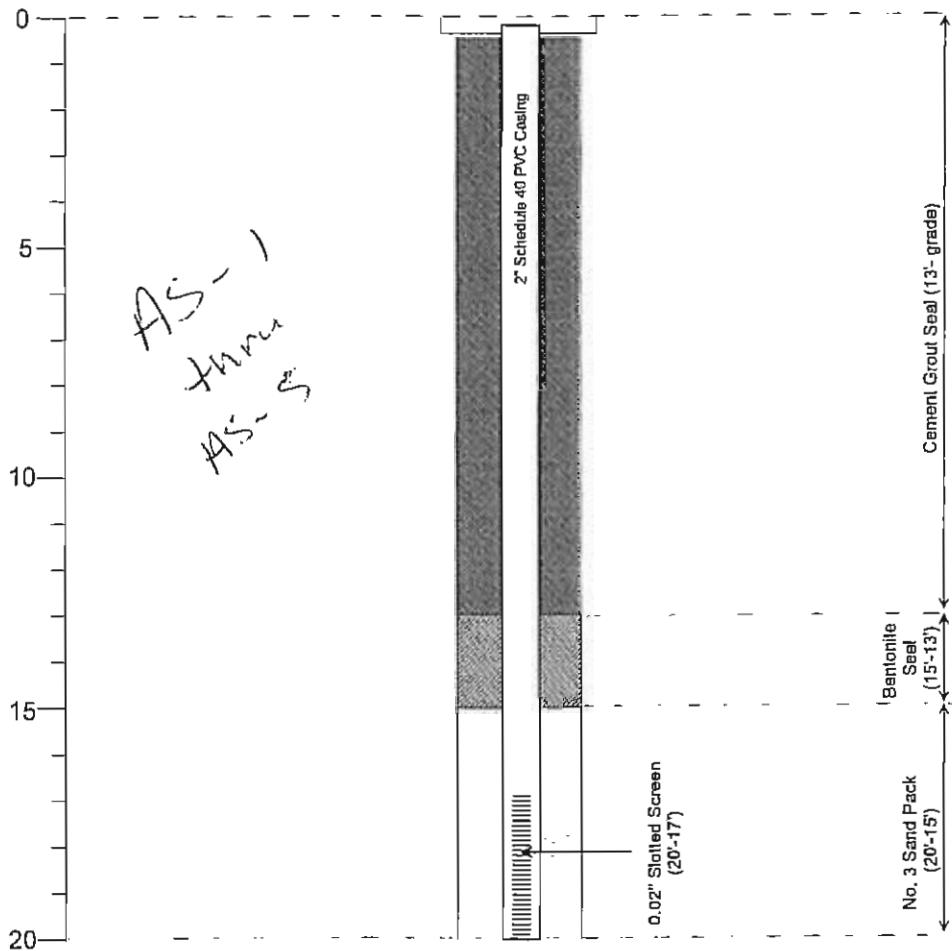


Figure 3: Well Construction Details: Air Sparge Wells

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PROJECT: 2332

DATE DRILLED: Nov 17-23, 2005

SITE LOCATION: 3609 International Boulevard, Oakland.

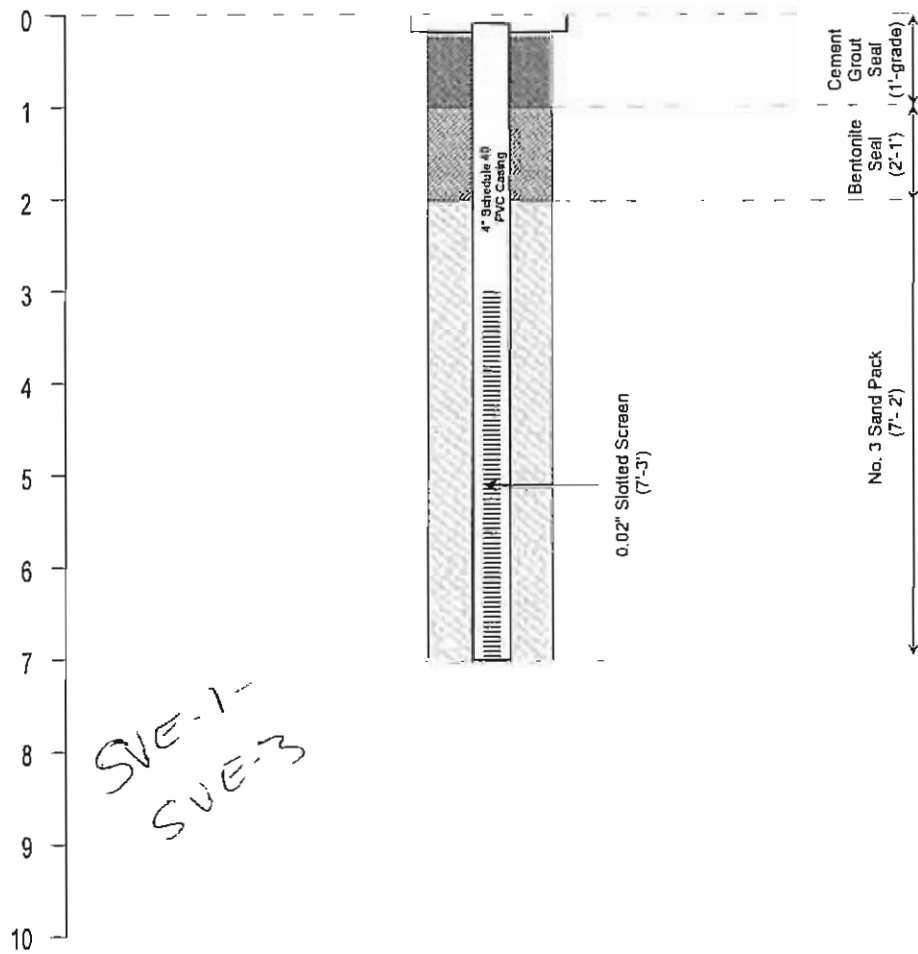
BORING DIAMETER: 10"

DRILLER: Woodward Drilling Company, Inc.

LOGGED BY: E Jennings

DRILLING METHOD: Hollow Steam Auger Drilling Technology.

APPROVED BY: M Sepehr Ph. D., P.E.



Total Depth 7' bgs

Figure 4: Well Construction Details: Vapor Extraction Wells

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WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

PROJECT: 2332

DATE DRILLED: Nov 17-23, 2005

SITE LOCATION: 3609 International Boulevard, Oakland.

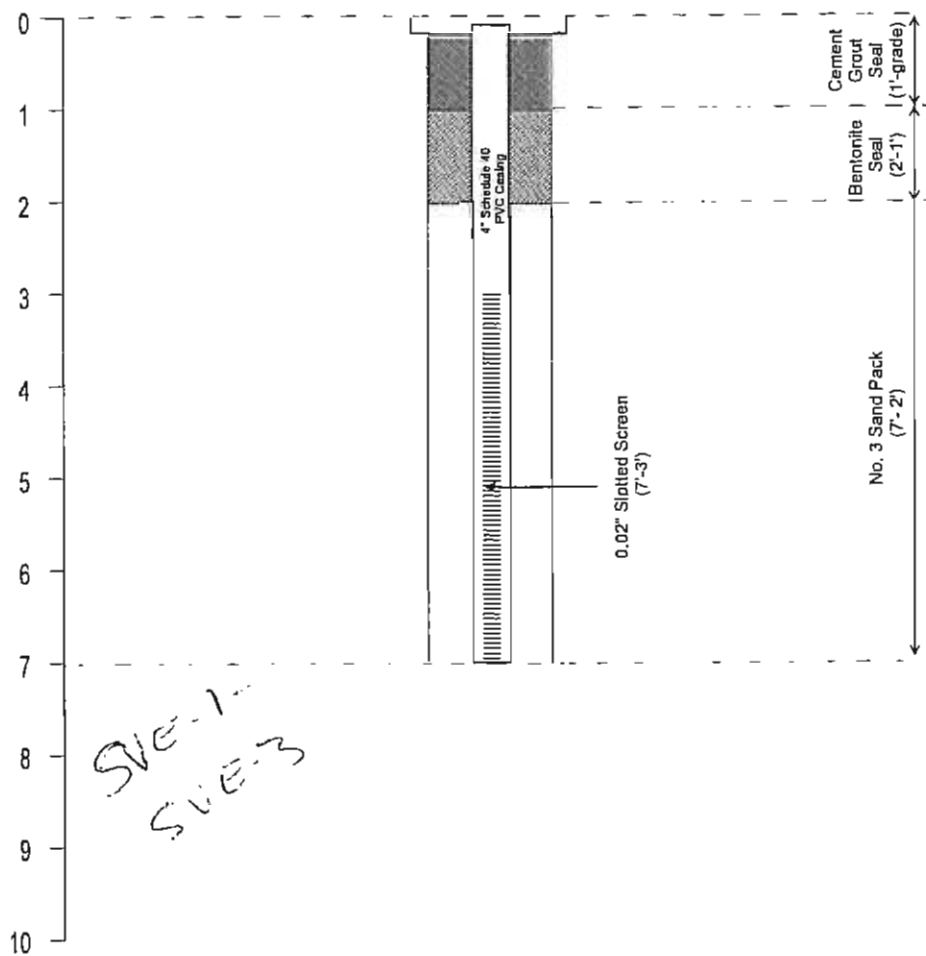
BORING DIAMETER: 10"

DRILLER: Woodward Drilling Company, Inc.

LOGGED BY: E Jennings

DRILLING METHOD: Hollow Steam Auger Drilling Technology.

APPROVED BY: M Sepehr Ph. D., P.E.



Total Depth 7' bgs

Figure 4: Well Construction Details: Vapor Extraction Wells



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WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

PROJECT: 2332

DATE DRILLED: Nov 17-23, 2005

SITE LOCATION: 3609 International Boulevard, Oakland.

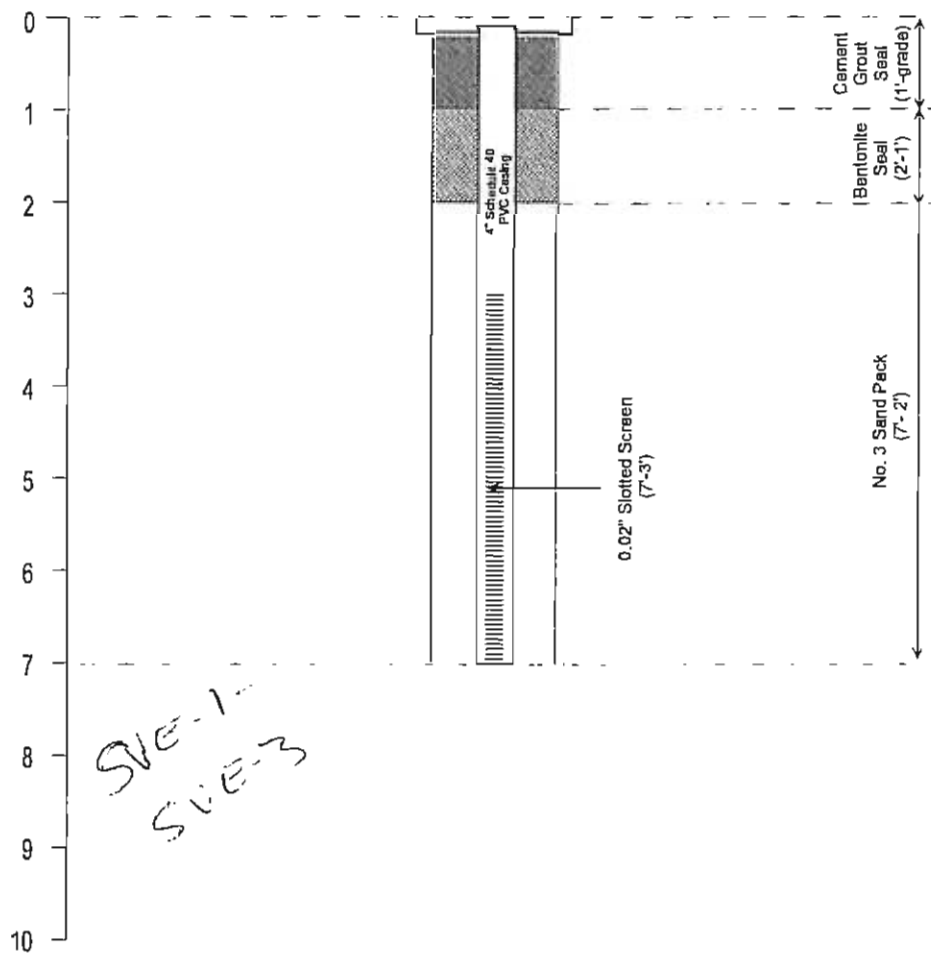
BORING DIAMETER: 10"

DRILLER: Woodward Drilling Company, Inc.

LOGGED BY: E Jennings

DRILLING METHOD: Hollow Steam Auger Drilling Technology.

APPROVED BY: M Sepehr Ph. D., P.E.



Total Depth 7' bgs

Figure 4: Well Construction Details: Vapor Extraction Wells



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WELL COMPLETION REPORT
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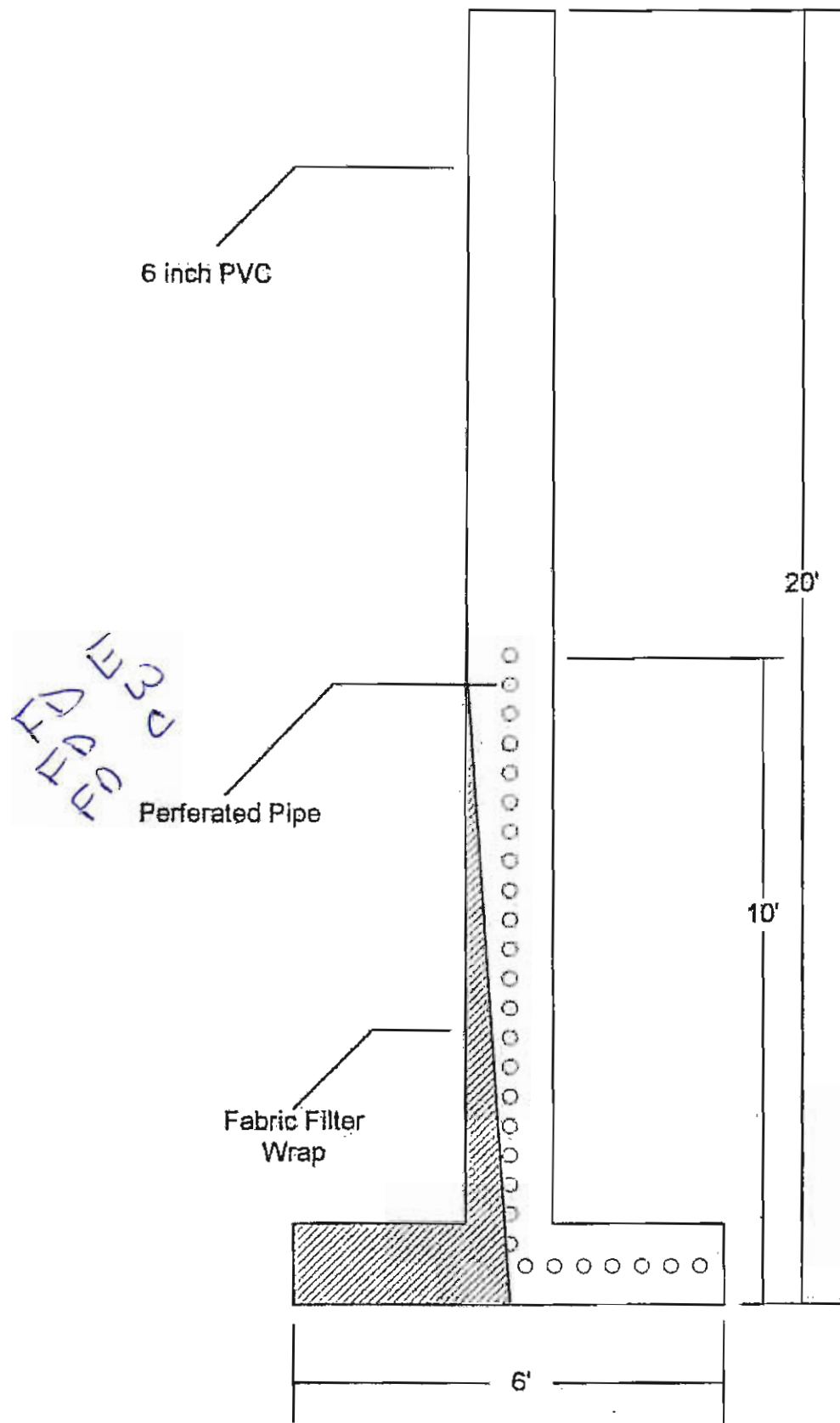


Figure 5: Details of Typical T-Section

French drain



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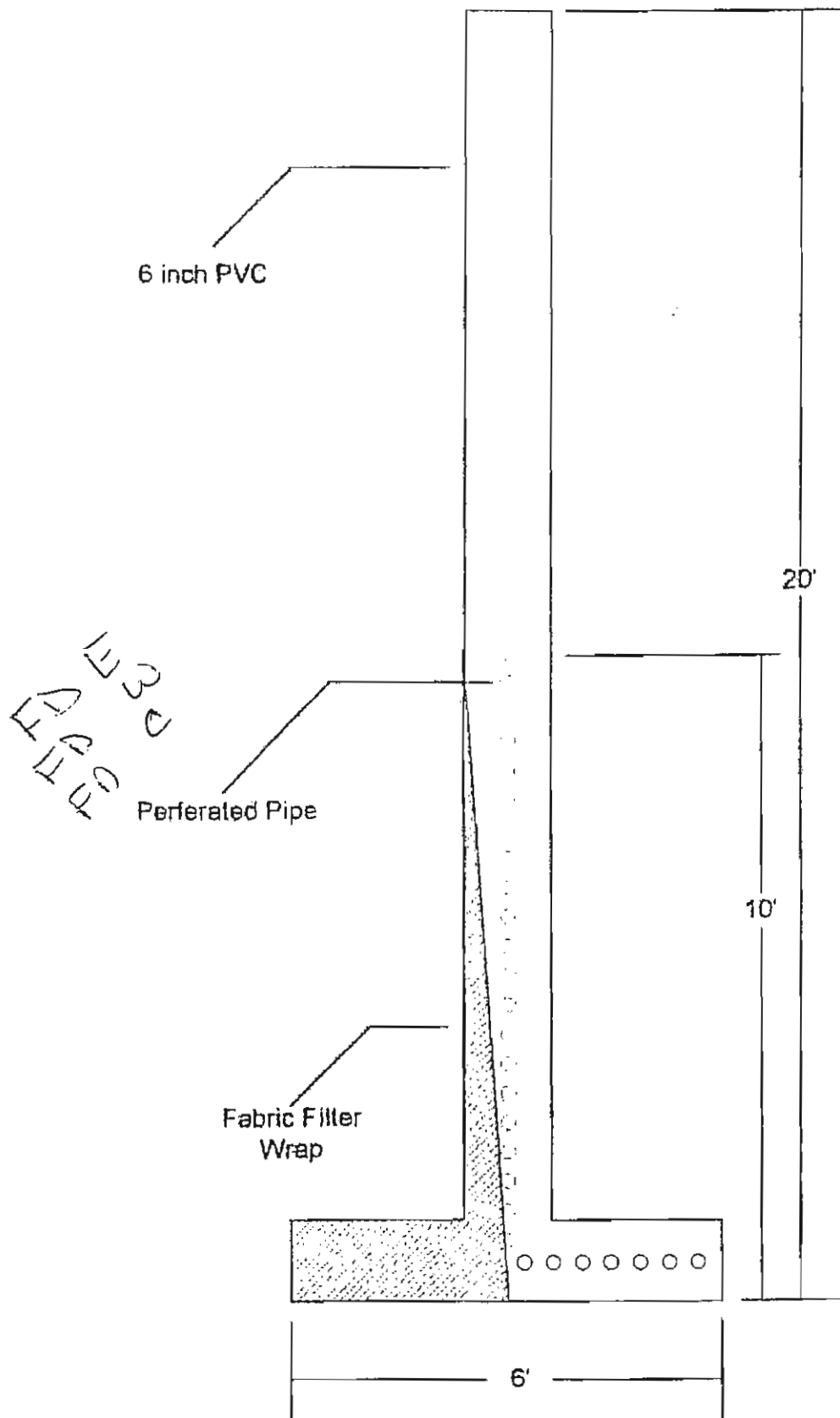


Figure 5: Details of Typical T-Section

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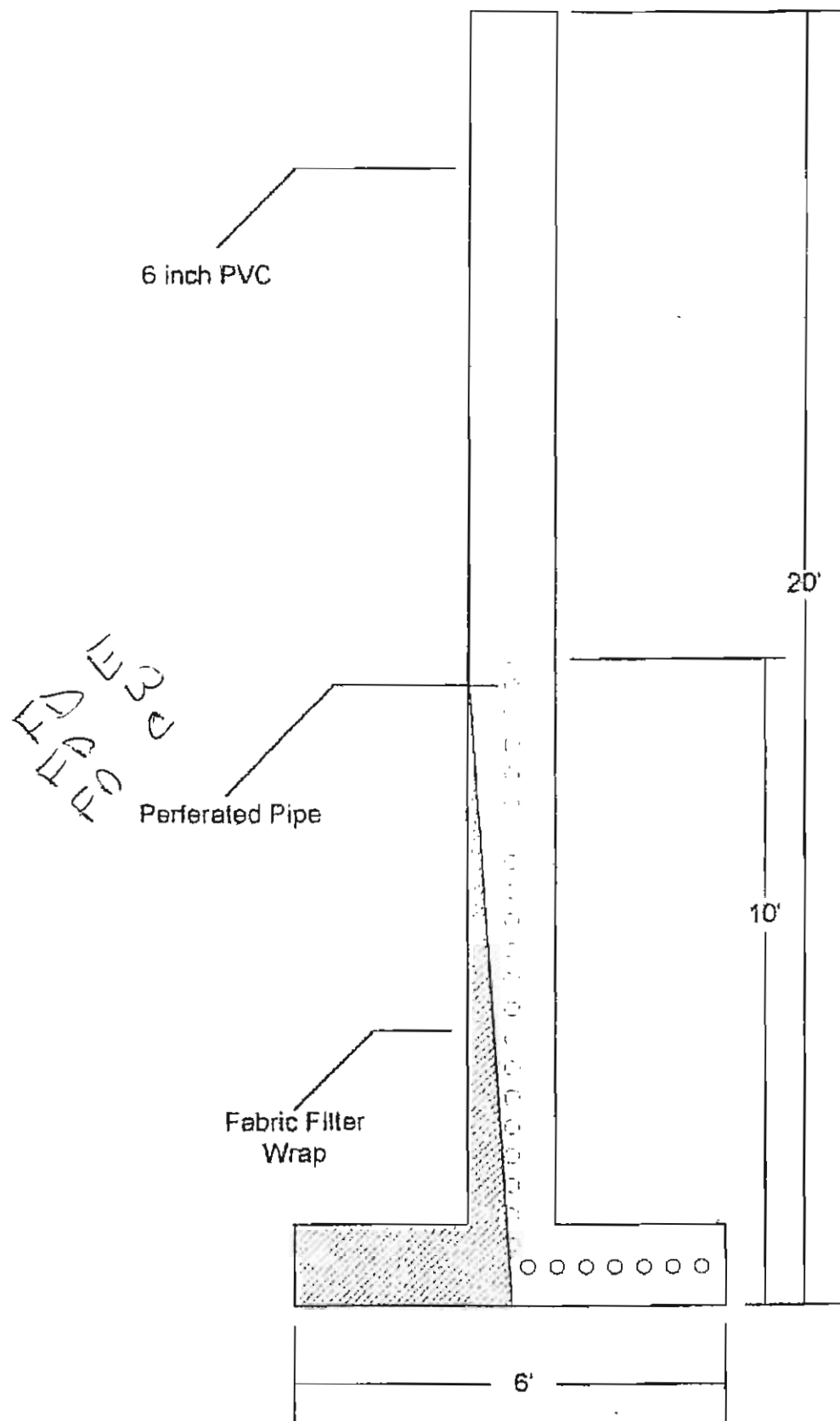


Figure 5: Details of Typical T-Section

French drain



APPENDIX C

Site Photographs



Plate 1. View of MW-10 during site marking, view South



Plate 2. View of MW-11, located in fenced in area



Plate 3. View of Fisch pressure grouting MW-11, 25 PSI held for 5 minutes



Plate 4. View of MW-11 finished to grade



Plate 5. View of Fisch tremie grouting MW-8



Plate 6. View of MW-8 grouted to top of casing



Plate 7. View of Fisch tremie grouting MW-1



Plate 8. View of Fisch set up to tremie grout AS-2



Plate 9. View of MW-7 set to be tremie grouted



Plate 10. View of Fisch tremie grouting MW-2



Plate 11. View of Fisch removing well box from MW-2



Plate 12. View of MW-2 with well box removed and well grouted



Plate 13. View of MW-2 finished to grade



Plate 14. View of Fisch tremie grouting AS-3



Plate 15. View of Fisch removing well box from MW-3 after tremie grouting



Plate 16. View of Fisch grouting MW-3 at top of casing



Plate 17. View of MW-3 finished to grade



Plate 18. View of Fisch set up on AS-4 to tremie grout



Plate 19. View of Fisch removing concrete from MW-10



Plate 20. View of MW-10 after removing tremie grouting and removing top of casing



Plate 21. View of MW-10 after removing well box



Plate 22. View of Fisch tremie grouting AS-5



Plate 23. View of Fisch tremie grouting MW-6



Plate 24. View of Fisch tremie grouting MW-12



Plate 25. View of Fisch tremie grouting MW-5



Plate 26. View of Fisch set up to tremie grout MW-4R



Plate 27. View of Fisch grouting top of FDC



Plate 28. View of Fisch cementing FDC to surface



Plate 29. View of FDC finished to grade



Plate 30. View of FDE finished to grade



Plate 31. View of MW-4R finished to grade



Plate 32. View of FDW finished to grade



Plate 33. View of MW-8 finished to grade



Plate 34. View of AS-1 finished to grade



Plate 35. View of MW-7 finished to grade



Plate 36. View of AS-2 finished to grade



Plate 37. View of SVE-1 finished to grade



Plate 38. View SVE-2 finished to grade



Plate 39. View of MW-1 finished to grade



Plate 40. View of EX-1 finished to grade



Plate 41. View of AS-3 finished to grade



Plate 42. View of Fisch removing well box from MW-6



Plate 43. View of MW-6 finished to grade



Plate 44. View of AS-4 and AS-5 finished to grade



Plate 45. View of SVE and AS manifolds prior to SOMA removing piping



Plate 46. View of Fisch removing well box for manifold



Plate 47. View of Fisch set up to remove MW-12 well box



Plate 48. View of MW-12 finished to grade



Plate 49. View of manifold box finished to grade



Plate 50. View of Fisch removing well box from SVE-3



Plate 51. View of SVE-3 finished to grade



Plate 52. View of cracked / sunken concrete above former SVE trench



Plate 53. View of Jim's Quality Paving removing broken concrete



Plate 54. View of concrete removal



Plate 55. View of concrete removal and edge finishing



Plate 56. View of rebar in concrete prior to finishing



Plate 57. View of concrete restoration, finished to grade



Plate 58. Repaired area of former treatment system piping



Plate 59. Repaired area of former treatment system piping

APPENDIX D

Hazardous Waste Manifest

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No. <u>21026-01</u>	2. Page 1 of 1
3. Generator's Name and Mailing Address <u>SOMIA</u> <u>16120 CUENS DR. STE. A</u> <u>PLEASANTON, CA. 94520</u>		Site Address: <u>MOCHAASSEM #121</u> <u>3109 INTERNATIONAL BL.</u> <u>OAKLAND, CA. 94617</u>		
4. Generator's Phone <u>(725) 734-5200</u>		6. US EPA ID Number <u>CA8 000 070 540</u>	A. State Transporter's ID	
5. Transporter 1 Company Name <u>ADVANCED CHEMICAL TRANSPORT</u>		8. US EPA ID Number	B. Transporter 1 Phone <u>415-248-1234</u>	
7. Transporter 2 Company Name		10. US EPA ID Number	C. State Transporter's ID	
9. Designated Facility Name and Site Address <u>U.S. Ecology</u> <u>11 MILES N. BEATTY ON HWY 75</u> <u>BEATTY, NV. 89003</u>		13. Total Quantity	D. Transporter 2 Phone	
11. WASTE DESCRIPTION		14. Unli. Wt./Vol.	E. State Facility's ID	
a. <u>NON HAZARDOUS WASTE SOLID</u> <u>(SIL CUTTINGS)</u>		Containers No. <u>4</u>	Type <u>T.M.</u>	F. Facility's Phone <u>800-237-3743</u>
b. <u>NON HAZARDOUS WASTE LIQUID</u> <u>(PILGED OIL CR)</u>				
c.				
d.				
G. Additional Descriptions for Materials Listed Above <u>11a) _____ ; Acid - _____</u> <u>11b) _____ ; Acid - _____</u>		H. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information				
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.				
Printed/Typed Name		Signature	Date Month Day Year <u>12 29 12</u>	
17. Transporter 1 Acknowledgement of Receipt of Materials		Date		
Printed/Typed Name		Signature	Month Day Year <u>12 29 12</u>	
18. Transporter 2 Acknowledgement of Receipt of Materials		Date		
Printed/Typed Name		Signature	Month Day Year	
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.				
Printed/Typed Name		Signature	Date Month Day Year	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on either 12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. <u>26526-01</u>	2. Page 1 of 1
3. Generator's Name and Mailing Address <u>SOMA</u> <u>1620 OWENS DR. STE. A</u> <u>PLEASANTON, CA. 94550</u>		SITE ADDRESS: <u>ABDUGHASSEM RAZI</u> <u>3609 INTERNATIONAL BL.</u> <u>OAKLAND, CA. 94601</u>			
4. Generator's Phone: <u>925-734-5000</u>					
5. Transporter 1 Company Name <u>ADVANCED CHEMICAL TRANSPORT</u>		6. US EPA ID Number <u>CAR 000 070 540</u>		A. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone <u>408-548-5030</u>	
9. Designated Facility Name and Site Address <u>U.S. ECOLOGY</u> <u>11 MILES N. BEATTY ON HWY 95</u> <u>BEATTY, NV. 89003</u>		10. US EPA ID Number <u>INVT 330 010 000</u>		C. State Transporter's ID	
				D. Transporter 2 Phone	
				E. State Facility's ID	
				F. Facility's Phone <u>800-239-3943</u>	
11. WASTE DESCRIPTION		Containers		13. Total Quantity	14. Unit Wt./Vol
		No.	Type		
a. NON HAZARDOUS WASTE SOLID (SOIL CUTTINGS)		4	DM	1200	P
b. NON HAZARDOUS WASTE LIQUID (PURGED WATER)		1	DM	30	G
c.					
d.					
G. Additional Descriptions for Materials Listed Above		H. Handling Codes for Wastes Listed Above			
11a) _____ ; ABU- <u>001-004, 4x55 DM</u>					
11b) _____ ; ABU- <u>005, 1x55 DM</u>					
15. Special Handling Instructions and Additional Information					
HAZARDOUS WASTE					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name <u>MASOUD</u>		Signature <u>MASOUD</u>		Date Month Day Year <u>12 20 10</u>	
17. Transporter 1 Acknowledgment of Receipt of Materials				Date	
Printed/Typed Name <u>William Gonzalez</u>		Signature <u>[Signature]</u>		Month Day Year <u>12 20 10</u>	
18. Transporter 2 Acknowledgment of Receipt of Materials				Date	
Printed/Typed Name		Signature		Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
Printed/Typed Name		Signature		Date Month Day Year	

NON-HAZARDOUS WASTE