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ALL

ENVIRONMENTAL
PROTECTION



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Epigene International
CONSULTING GEOLOGISTS

January 14, 1998

Mr Gary King
Project Coordinator
5157 Brophy Drive
Fremont, CA 94536

Subject: Report of Well Abandonment for Property Located at 16525 Worthley Drive, San Lorenzo, Alameda County

The site is located at the southwest end of Worthley Drive in San Lorenzo. The site location is shown on Figure 1. As per the request of the Alameda County Department of Environmental Health the existing monitoring wells located on the site were destroyed. The well locations are shown on Figure 2 and are identified as MW1, MW-2, MW-4, MW-5, MW-6, MW-7, MW-8 and RW-1.

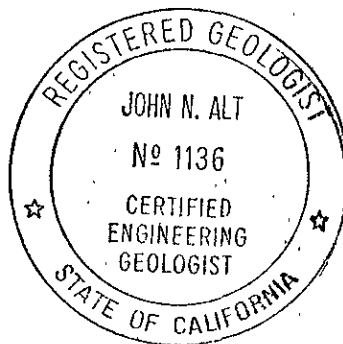
The existing wells were destroyed by pressure grouting on November 13, 1997. Well destruction was carried out by West Hazmat Drilling Corp. (C57 No. 554979) based in Newark, CA. Well destruction permits were obtained from the Alameda County Department of Public Works, Water Resources Section. The destruction of the wells were carried out as per the requirements of the permit. A copy of the permit is attached to this letter.

Mr. Brian Oliva of the Alameda County Department of Environmental Health was notified at least 48 hours prior to the well destructions as per his request. He was not present on the site at the time the wells were destroyed

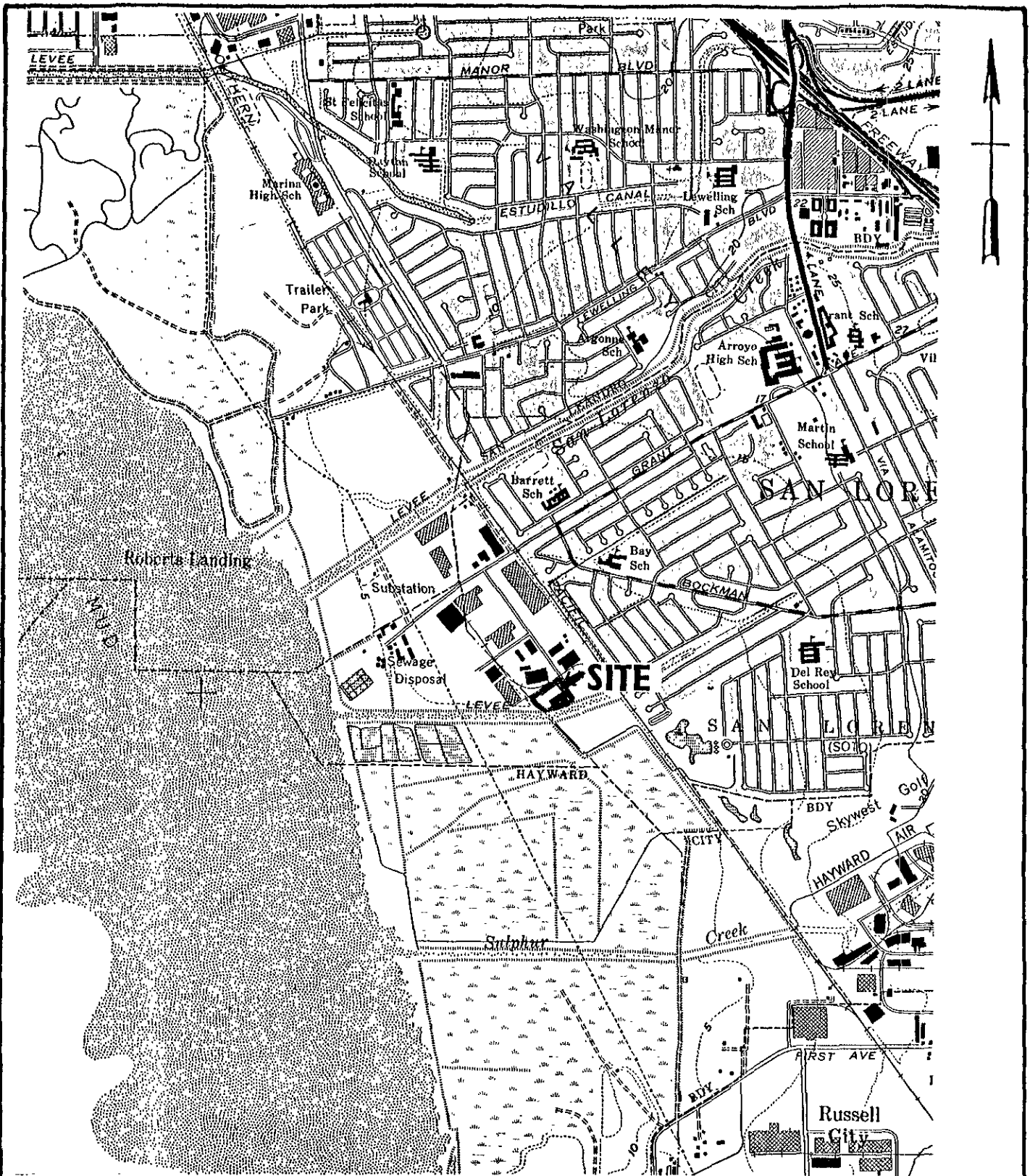
The well destructions were observed by the undersigned. This activity should complete the requirements for closure of the subject site. Should you have any questions or need additional information, please call me.

Sincerely,

John N Alt
Certified Engineering Geologist No. 1136



Attachments



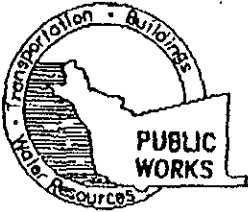
Base map from USGS 7 1/2 minute series
 San Leandro quadrangle, 1980.

**EPIGENE
 INTERNATIONAL**

Project #96-150
 16525 WORTHLEY DRIVE,
 San Lorenzo, Alameda Co., CA.

Fig. 1

SITE LOCATION MAP



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

951 TURNER COURT, SUITE 300, HAYWARD, CA 94545-2651
PHONE (510) 670-5575 ANDREAS GODFREY FAX (510) 670-5262
(510) 670-5248 ALVIN KAN

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 16525 Worthley Drive, San Lorenzo, Alameda Co.

California Coordinates Source _____ ft. Accuracy ± _____ ft.
CCN _____ n. CCE _____ ft.
APN _____

CLIENT Name Cosmas Ltd.
Address 14 Mirada Rd. Phone _____
City Hale Moon Bay, CA Zip 94019

APPLICANT Name John Alt - Epigene International
50750 Jasea Parkway Phone 791-3306
Address Suite A-11 Phone 791-1986
City Fremont, CA Zip 94536

TYPE OF PROJECT

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

PROPOSED WATER SUPPLY WELL USE NA
New Domestic Replacement Domestic
Municipal Irrigation
Industrial Other _____

DRILLING METHOD:

Mud Rotary Air Rotary Auger
Cable Other pressure grouting

DRILLER'S LICENSE NO. C57-No. 554979

WELL PROJECTS

Drill Hole Diameter _____ in. Maximum _____
Casing Diameter 7 at 2 in. Depth 30 ft.
Surface Seal Depth _____ ft. Number 2
1 at 6 in.

GEOTECHNICAL PROJECTS

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

ESTIMATED STARTING DATE Nov. 7, 1997 ?

ESTIMATED COMPLETION DATE Nov. 7, 1997 ?

FOR OFFICE USE

PERMIT NUMBER 97WR194
WELL NUMBER _____
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

A. GENERAL

1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS

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

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

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

D. GEOTECHNICAL

Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

E. CATHODIC

Fill hole above anode zone with concrete placed by tremie.

F. WELL DESTRUCTION

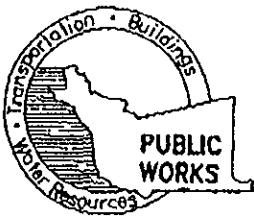
See attached

G. SPECIAL CONDITIONS

APPROVED Alvin Kan DATE 11/4/97

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

APPLICANT'S SIGNATURE John Alt DATE 10/28/97



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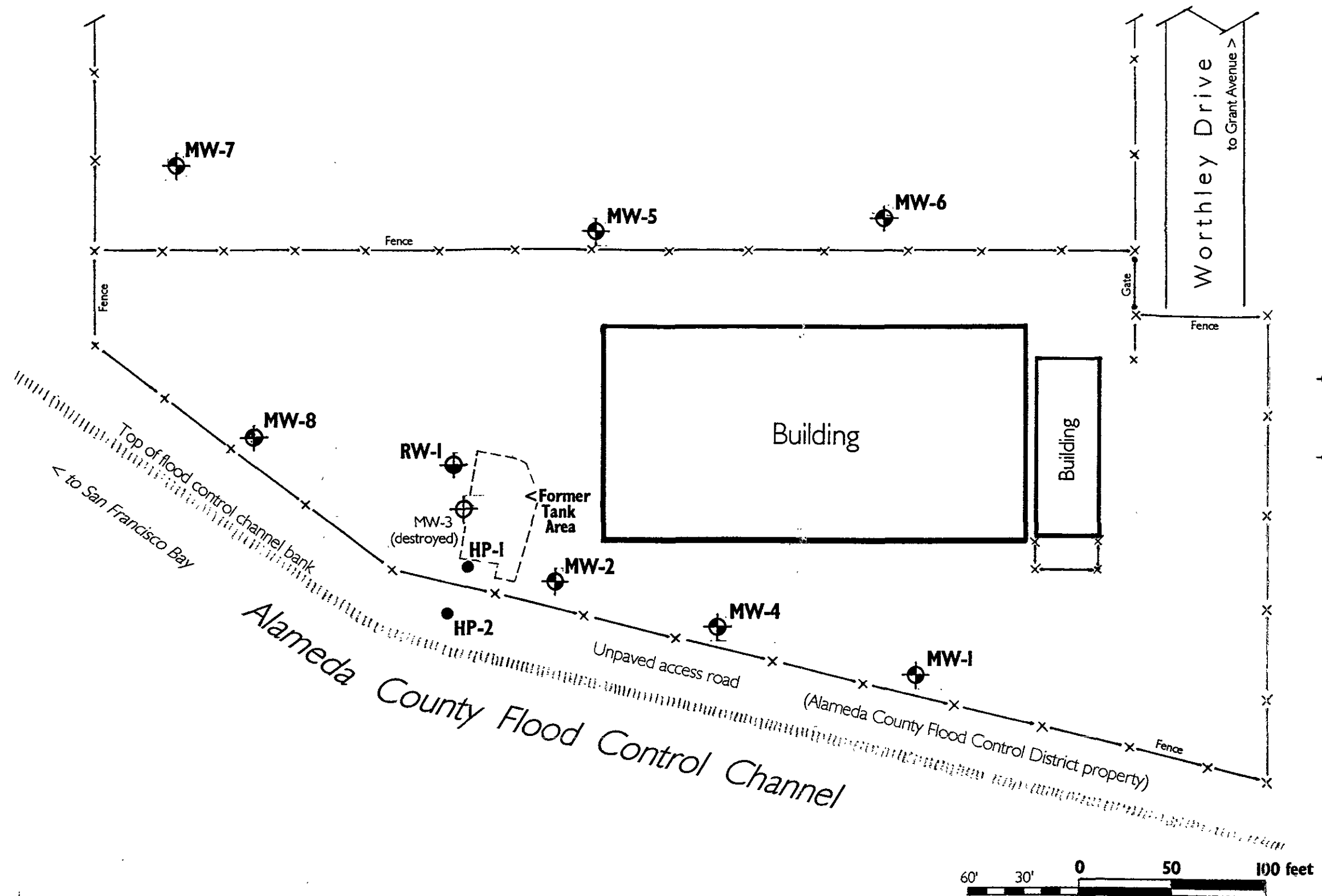
WATER RESOURCES SECTION
GROUNDWATER PROTECTION ORDINANCE
For Pressure Grouting of Monitoring Well

PERMIT # 97WR194

16525 WORTHLEY DR
SAN LORENZO

Destruction Requirements:

1. Clean out all bridged or poorly compacted materials to the bottom of the well.
2. Pressure grout the casing to 2 feet below finished grade or original ground, whichever is the lower elevation.
3. Remove casing, seal and gravel pack to 2 feet below finished grade or original ground, whichever is the lower elevation.
4. After the seal has set, backfill the remaining hole with compacted material.



Plan derived from drawing by Resna, August 1993,
 as used by Lowmey Associates, Mountain View, California, August 1994
 Hydropunch locations by Epigene International, June 1996.

EPIGENE INTERNATIONAL	Project # 16525 WORTHLEY DRIVE, San Lorenzo, Alameda Co., Calif.
Fig. 2	SITE PLAN