

100 Pine Street, 10th Floor  
San Francisco, CA 94111  
(415) 434-9400 • FAX (415) 434-1365



28 July 1997  
Project 2868.02

97 JUL 31 PM 3:40

Ms. Amy Leech  
Alameda County  
Environmental Health Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

Subject: Well Destruction  
National Guard Organizational Maintenance Shop No. 35  
San Lorenzo, California

Dear Ms. Leech:

Geomatrix Consultants, Inc. (Geomatrix), is pleased to submit this letter report to you documenting the activities associated with the destruction of three groundwater monitoring wells at 16501 Ashland Avenue, San Lorenzo, California (the Site). This work was conducted in accordance with our work plan dated 14 July 1997.

Geomatrix observed the destruction of 3 groundwater monitoring wells at the Site on 18 July 1997. The monitoring wells were destroyed in accordance with the conditions of Alameda County Public Works Agency permit number 97WR021, issued to Geomatrix on 14 July 1997 (Attachment A). The monitoring wells were destroyed by HEW Drilling Company, Inc., a state licensed drilling contractor, of Palo Alto, California, by pressure grouting the casings with cement-bentonite grout and removing the Christy boxes. The boreholes were finished at ground surface with concrete.

The California Department of Water Resources Well Completion Reports for the well destructions are being submitted as required, and copies have been included for your information (Attachment B). Please call the undersigned if you have any questions or require further information.

Sincerely,  
GEOMATRIX CONSULTANTS, INC.

*SLACOMBE*

Sonia Lacombe  
Project Hydrogeologist

SL/bab  
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Attachments

cc: Homer Lin, Division of the State Architect  
Andreas Godfrey, Alameda County Public Works Agency

**Geomatrix Consultants, Inc.**  
Engineers, Geologists, and Environmental Scientists

**ATTACHMENT A**  
**WELL DESTRUCTION PERMIT**



# ALAMEDA COUNTY PUBLIC WORKS AGENCY

## WATER RESOURCES SECTION

951 TURNER COURT, SUITE 300, HAYWARD, CA 94545-2651

PHONE (510) 678-5875 ANDREAS GODFREY

FAX (510) 478-5242

(510) 678-5248 ALVIN KAN

### DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT National Guard Organization  
16501 Ashland Ave. Sacramento CA  
MW-1, MW-2, and MW-3

PERMIT NUMBER 97WR021  
WELL NUMBER \_\_\_\_\_  
APN \_\_\_\_\_

California Coordinates Source \_\_\_\_\_ ft. Accuracy ± \_\_\_\_\_ ft.  
CCN \_\_\_\_\_ ft. CCR \_\_\_\_\_ ft.  
APN \_\_\_\_\_

#### PERMIT CONDITIONS

Cited Permit Requirements Apply

CLIENT  
Name DSA  
Address 1300 J Street Phone \_\_\_\_\_  
City Sacramento Zip 95814

#### 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.

APPLICANT  
Name Geomatrix Consultants / Sonia Lacombe  
Address 100 Pine Street, 10th Fl. Phone (415) 424-9600  
City SO Zip 94111

#### 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.

TYPE OF PROJECT

Well Construction	<input type="checkbox"/>	Geotechnical Investigation	<input type="checkbox"/>
Cathodic Protection	<input type="checkbox"/>	General	<input type="checkbox"/>
Water Supply	<input type="checkbox"/>	Contamination	<input type="checkbox"/>
Monitoring	<input type="checkbox"/>	Well Destruction	<input checked="" type="checkbox"/>

#### 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.

PROPOSED WATER SUPPLY WELL USE

New Domestic	<input type="checkbox"/>	Replacement Domestic	<input type="checkbox"/>
Municipal	<input type="checkbox"/>	Irrigation	<input type="checkbox"/>
Industrial	<input type="checkbox"/>	Other _____	<input type="checkbox"/>

#### 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, cement grout shell be used in place of compacted cuttings.

DRILLING METHOD:

Mud Rotary	<input type="checkbox"/>	Air Rotary	<input type="checkbox"/>	Auger	<input type="checkbox"/>
Cable	<input type="checkbox"/>	Other	<input type="checkbox"/>		

#### E. CATHODIC

Fill hole above anode zone with concrete placed by tremie.

DRILLER'S LICENSE NO. \_\_\_\_\_

#### WELL PROJECTS

Drill Hole Diameter _____ in.	Maximum Depth _____ ft.
Casing Diameter _____ in.	Number _____
Surface Seal Depth _____ ft.	

#### F. WELL DESTRUCTION

See attached.

#### G. SPECIAL CONDITIONS

#### GEOTECHNICAL PROJECTS

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

ESTIMATED STARTING DATE 18 July 92  
ESTIMATED COMPLETION DATE 18 July 92

APPROVED Alvin Kan DATE 7/14/92

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

APPLICANT'S SIGNATURE S. Lacombe DATE 7/14/92  
Geomatrix Consultants

**ATTACHMENT B**  
**COPIES OF WELL COMPLETION REPORTS**

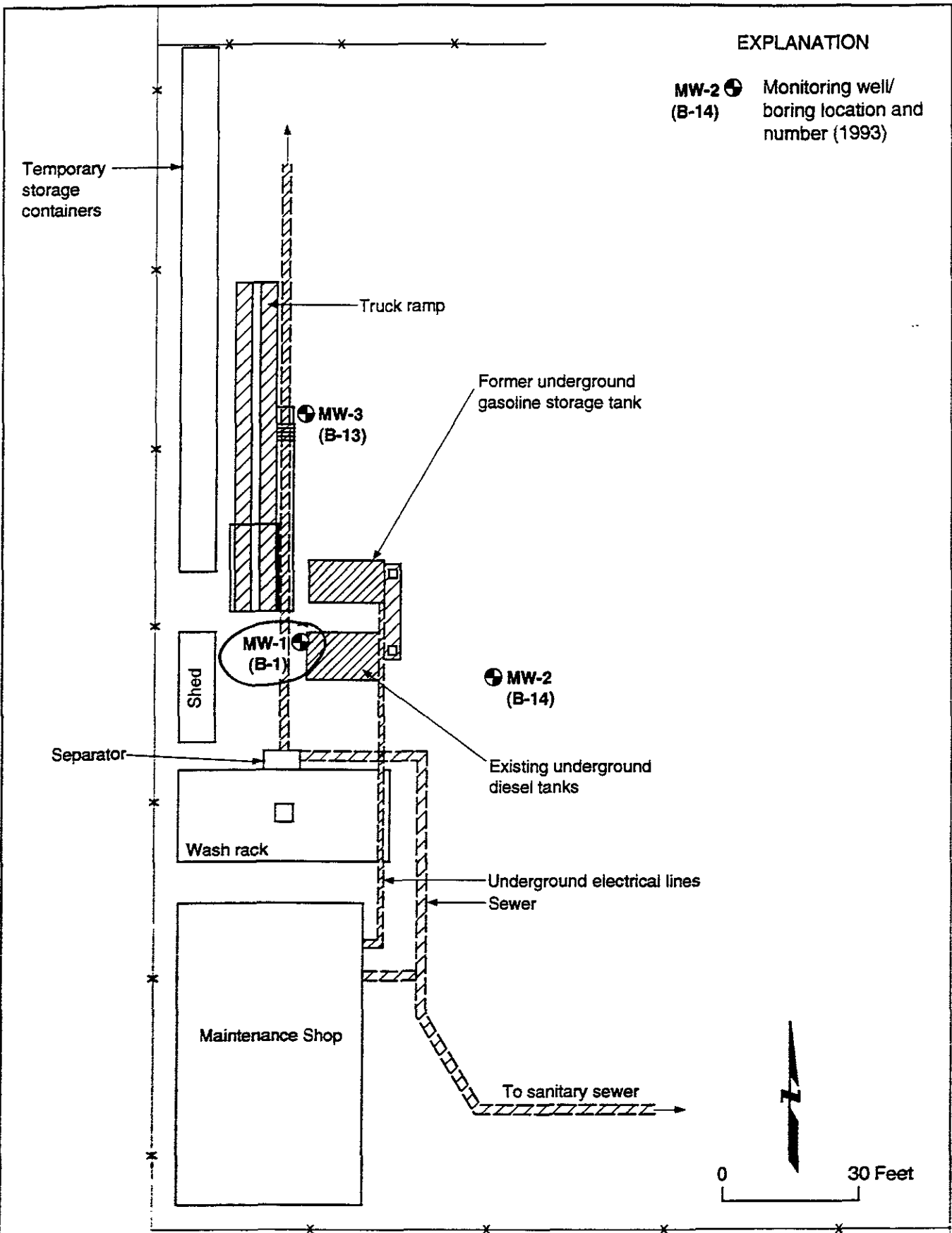
**CONFIDENTIAL**

**STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)**

**REMOVED**

EXPLANATION

MW-2 (B-14) Monitoring well/ boring location and number (1993)



Reference: Tetra Tech, Inc., 1993

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SUBSURFACE SAMPLING LOCATIONS  
 National Guard Organizational Maintenance Shop #35  
 16501 Ashland Avenue  
 San Lorenzo, California

Figure

1

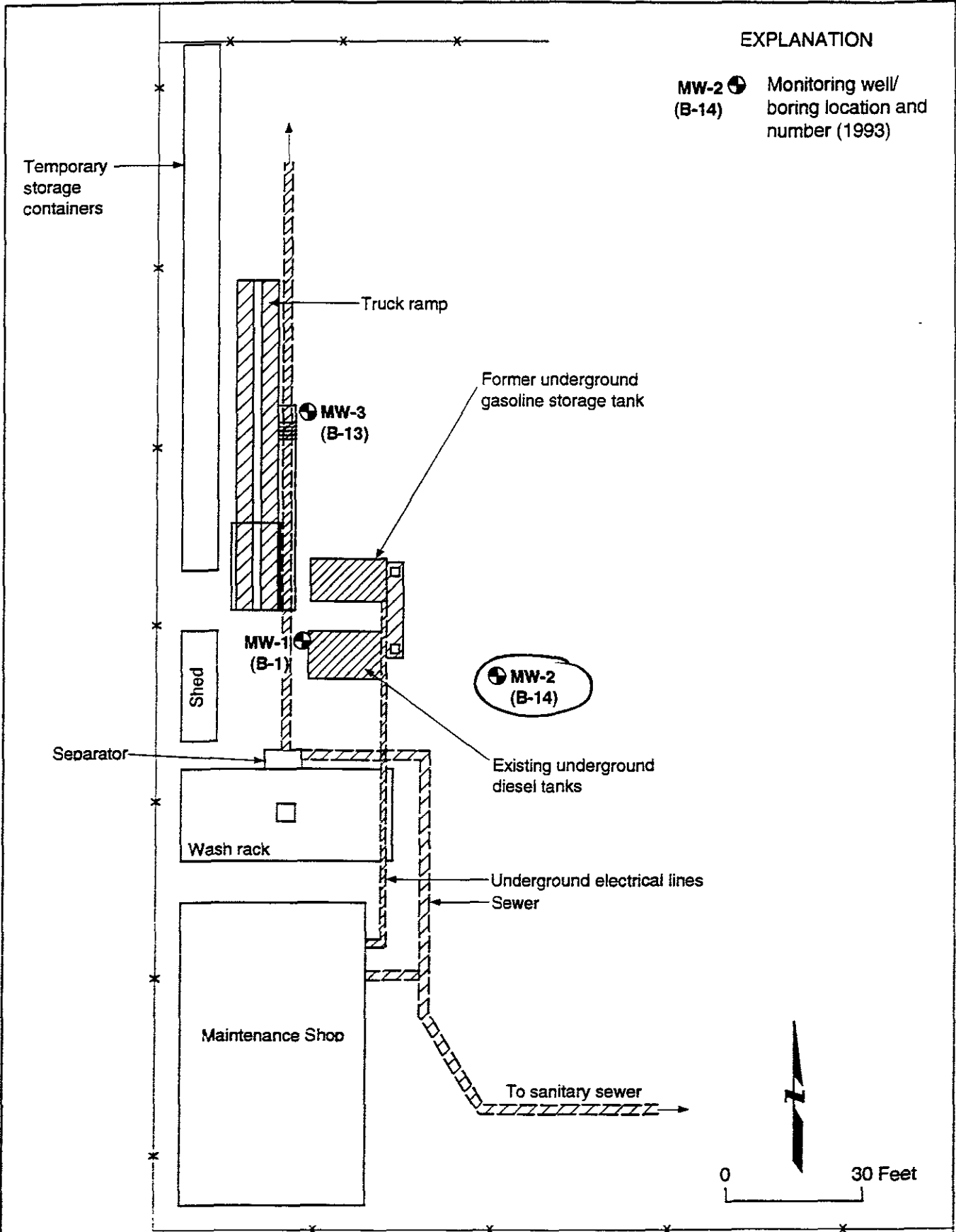
Project No.

2868.02

**CONFIDENTIAL**

**STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)**

**REMOVED**



Reference: Tetra Tech, Inc., 1993

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**SUBSURFACE SAMPLING LOCATIONS**  
 National Guard Organizational Maintenance Shop #35  
 16501 Ashland Avenue  
 San Lorenzo, California

Figure

1

Project No.

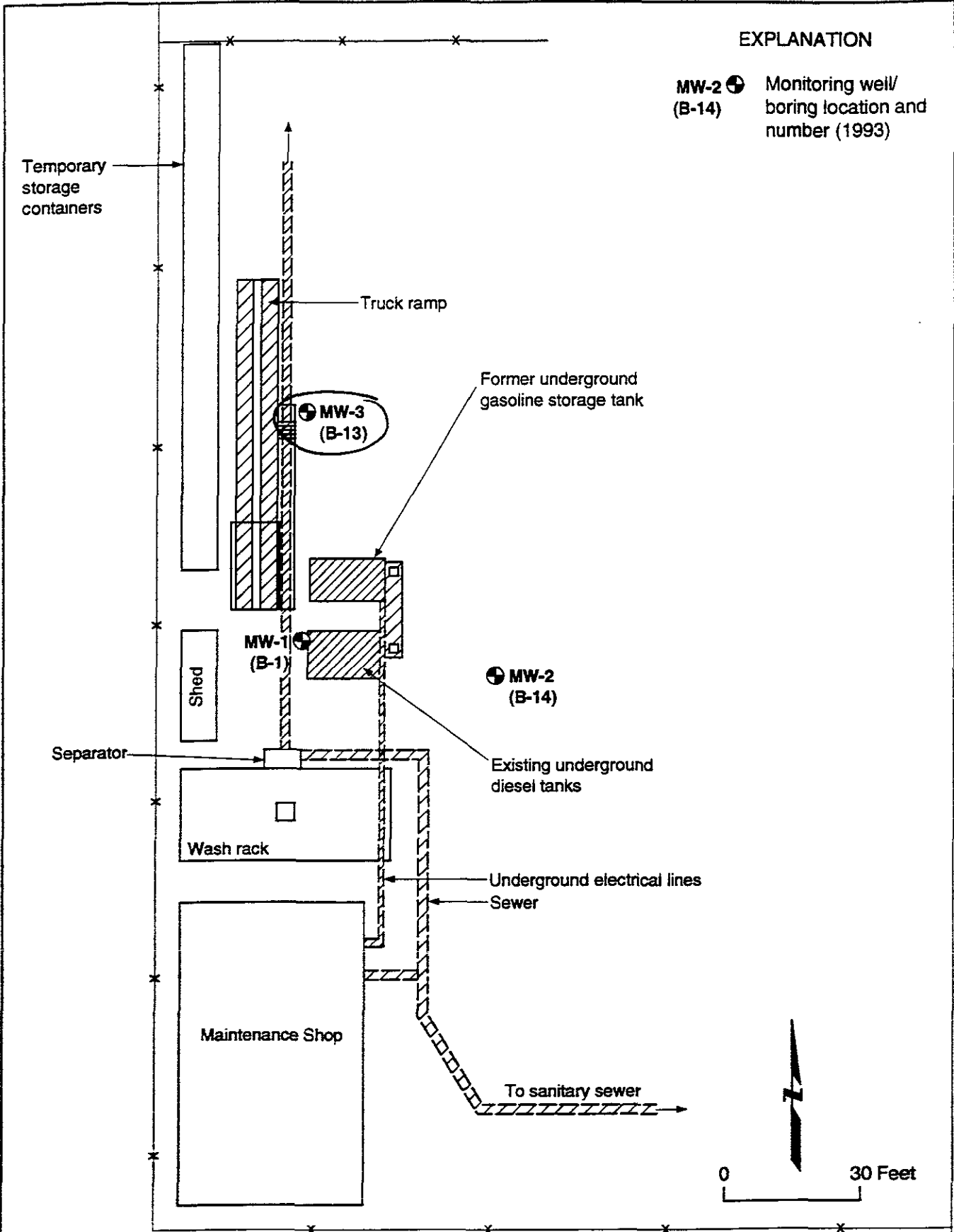
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100 00 800 00



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Figure

1

Project No.

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