

**Erler &
Kalinowski, Inc.**

Consulting Engineers and Scientists

1730 So. Amphlett Blvd., Suite 320
San Mateo, California 94402
(415) 578-1172
Fax (415) 578-9131

5 March 1996

Ms. Susan Hugo
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502-6577

Subject: Abandonment of Monitoring Wells at
1410 64th Street, Emeryville, California
(EKI 960002.00)

Dear Ms. Hugo:

On behalf of the Lowenberg Corporation, Erler & Kalinowski, Inc. ("EKI") has prepared this letter report summarizing the abandonment of monitoring wells TMW-1, TMW-2, TMW-3, and a fourth, unnamed well located at 1410 64th Street, Emeryville, California ("the Site"). These wells were associated with the former diesel and gasoline tanks located at the Site.

Wells TMW-1, TMW-2, and TMW-3 were 2-inch diameter wells completed to depths of 15 to 15.5 feet below ground surface. An additional, unnamed well located in the former tank excavation backfill was also abandoned. The fourth well was 3 inches in diameter and completed to a depth of 10 feet below ground surface. The wells were abandoned by drilling out the well casing and sand pack with a hollow-stem auger drill rig. The holes were backfilled with neat cement grout that was tremied into place through the augers. The holes were topped off with concrete.

The Alameda County Flood Control and Water Conservation District, Zone 7 drilling permit and the State of California Department of Water Resources Well Completion Report for the destruction of these wells are included as Attachment A.

It is our understanding from your letter, dated 2 January 1996, that the Alameda County Department of Environmental Health can issue a Remedial Action Completion Certification letter for the Site because the wells have been abandoned.

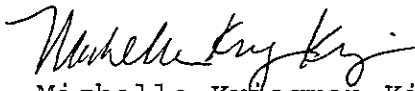
Ms. Hugo
5 March 1996
Page 2

**Erler &
Kalinowski, Inc.**

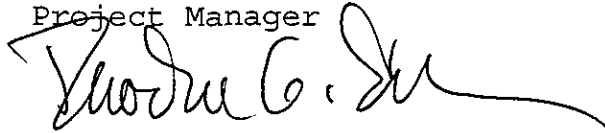
Thank you for your assistance in this matter. If you have any questions, please do not hesitate to call.

Very truly yours,

ERLER & KALINOWSKI, INC.



Michelle Kriegman King, Ph.D.
Project Manager



Theodore G. Erler, P.E.
President

Attachment

cc: Susan Lowenberg, Lowenberg Corporation

Erler & Kalinowski, Inc.

Consulting Engineers and Scientists

1730 So. Amphlett Blvd., Suite 320
San Mateo, California 94402
(415) 578-1172
Fax (415) 578-9131

1 March 1996

Mr. Wyman Hong
Alameda County Flood Control and
Water Conservation District, Zone 7 Water Agency
5997 Parkside Drive
Pleasanton, California 94588

Subject: Modification to Zone 7 Permit Number 96037
for Destruction of Monitoring Wells
1410 64th Street, Emeryville, California
(EKI 96002.00)

Dear Mr. Hong:

Erler & Kalinowski, Inc. ("EKI") is pleased to submit to Alameda County Flood Control and Water Conservation District, Zone 7 ("Zone 7") a modification to permit number 96037, dated 23 January 1996. The permit was for the destruction of monitoring wells located at 1410 64th Street, Emeryville, California ("the Site").

Wells TMW-1, TMW-2 and TMW-3 were 2-inch diameter wells completed to depths of 15 to 15.5 feet below ground surface. An additional, unnamed and undocumented well was located in the former tank excavation backfill between wells TMW-1 and TMW-3. This fourth well was 3 inches in diameter and was completed in pea gravel fill material to a depth of 10 feet below ground surface.

Wells TMW-1, TMW-3 and the unnamed well were destroyed on 29 January 1996, in accordance with the procedures specified in the permit (Attachment A). At the time, it was thought that the unnamed well was well TMW-2. Well TMW-2, which was actually located inside the warehouse 23 feet north of the former tank excavation, was destroyed on 26 February 1996.

If you have any questions or wish to discuss these matters in greater detail, please call.

Very truly yours,

ERLER & KALINOWSKI, INC.



Michelle Kriegman King, Ph.D.
Project Manager

Attachment



ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588 VOICE (510) 462-2800 FAX (510) 462-3914

DRILLING PERMIT APPLICATION

EKI 960002.00

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 1410 64TH STREET
AT HOLLIS STREET
EMERYVILLE, CA.

PERMIT NUMBER 96037
LOCATION NUMBER 1S/4W 15F80 to 15F82

CLIENT
Name LOWENBERG CORPORATION
Address 94 MONTGOMERY ST. #1500 Voice 415-392-4500
City SAN FRANCISCO, CA Zip 94104

PERMIT CONDITIONS

Circled Permit Requirements Apply

APPLICANT
Name ERLER & KALINOWSKI, INC.
ROGER LION Fax 915-578-9131
Address 1730 S. RAYBOLT BLVD. Voice 415-578-1172
City SAN MATEO, CA. Zip 94402

A. GENERAL

1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 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 WELLS, INCLUDING PIEZOMETERS

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. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

C. 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.

D. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

E. WELL DESTRUCTION. See attached.

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

PROPOSED WATER SUPPLY WELL USE
Domestic Industrial Other
Municipal Irrigation

DRILLING METHOD:
Mud Rotary Air Rotary Auger
Cable Other

DRILLER'S LICENSE NO. C 57-177681

WELL PROJECTS
Drill Hole Diameter 8 in. Maximum
Casing Diameter 2 in. Depth 15.5 ft.
Surface Seal Depth ft. Number 3 EACH

WELLS: TMW-1 15 ft
TMW-2 15.5 ft.
TMW-3 15.5 ft

GEOTECHNICAL PROJECTS
Number of Borings Maximum
Hole Diameter in. Depth ft.

ESTIMATED STARTING DATE 1/25/96
ESTIMATED COMPLETION DATE 1/25/96

Approved Wyman Hong Date 22 Jan 96

Applicant agrees to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Roger Lion Date 1/18/96

22 January 1996

ZONE 7
WATER RESOURCES ENGINEERING
DRILLING ORDINANCE

LOWENBERG CORPORATION
1410-64TH STREET
EMERYVILLE
WELL 1S/4W 15F80 TO 15F82
PERMIT 96037

Destruction Requirements:

1. Drill out the well so that the casing, seal, and gravel pack are removed to the bottom of the well.
2. Sound the well as deeply as practicable and record for your report.
3. Using a tremie pipe, fill the hole to 2 feet below the lower of finished grade or original ground with neat cement.
4. After the seal has set, backfill the remaining hole with compacted material.

These destruction requirements as proposed by Roger Lion of Erler & Kalinowski meet or exceed the Zone 7 minimum requirements.

COPY

**Erler &
Kalinowski, Inc.**

Consulting Engineers and Scientists

1730 So. Amphlett Blvd., Suite 320
San Mateo, California 94402
(415) 578-1172
Fax (415) 578-9131

LETTER OF TRANSMITTAL

TO: California Department of Water Resources
Central District
3251 'S' Street
Sacramento, California 95816

DATE: 1 March 1996
PROJ. NO. 960002.00
SUBJECT: Lowenberg Corp.
1410 64th Street
Emeryville, California

WE ARE SENDING YOU THE FOLLOWING:

Revised Well Destruction Report #471810 with attached site map and a report to Zone 7. The wells destroyed are as follows:

Well ID	Total depth	Diameter	Date
TMW-1	16-feet	2-inches	1/29/96
TMW-2	16-feet	2-inches	2/26/96
TMW-3	16-feet	2-inches	1/29/96
(unnamed)	10-feet	3-inches	1/29/96

The unnamed well was installed in excavation backfill and was not permitted by Zone 7 Water District. It was located between TMW-1 and TMW-3.

REMARKS: Zone 7 Water Agency Permit Number 96037,
Location Number 1S/4W 15F80 to 15F82.

COPY TO:

Alameda County Flood Control and Water
Conservation District, Zone 7
5997 Parkside Drive
Pleasanton, California 94588

Very truly yours,

ERLER & KALINOWSKI, INC.

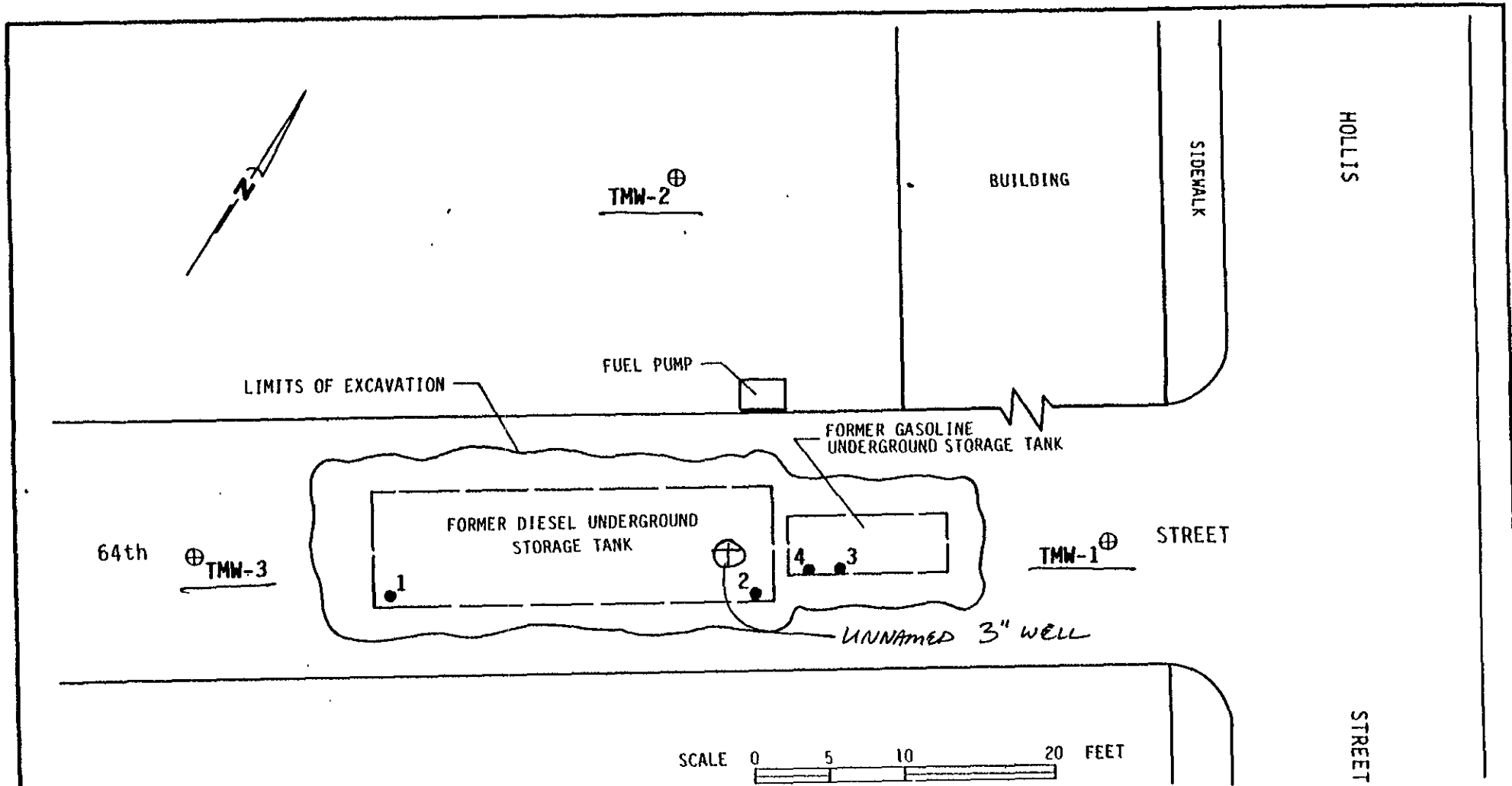

Roger D. Lion

*If enclosures are not as noted, please advise us
at once at (415) 578-1172.*

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED



EXPLANATION

- 4 SOIL SAMPLE LOCATION
- ⊕ TMW-3 SOIL BORINGS/MONITORING WELLS

ENSRTM

SITE PLAN
MISSION TAYLOR PROPERTIES
1410 64th STREET
EMERYVILLE, CALIFORNIA

DRAWN BY: <i>MTL</i>	DATE: 01/10/91	PROJECT NO.: 4682-001
CHK'D BY: <i>JS</i>	REVISED:	DWG NO.: FIGURE 2