Levine-Fricke-Recon
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

1900 Powell Street, 12th Floor
Emeryville, California 94608-1827
(510) 652-4500, FAX (510) 652-2246

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Date	August 12, 1998
From	Michael Marsden
Project No.	6427.00-005

Deliver To	Name Of Firm	FAX Number
Mark Johnson	RWQCB	510 286-1380
Barbara Cook, P.E.	DTSC	510 540-3819
Susan Hugo	ACHD	510 337-9335
Ric Notini	Chiron Corp.	510 923-7476
Ignacio Dayrit	City of Emeryville	510 596-3724
Larry Mencin	The Sherwin-Williams Company	216 566-2730
Nick Maoloni	The Sherwin-Williams Company	216 566-2730
John Gerulis	The Sherwin-Williams Company	216 566-2730
Dave Gustafson	The Sherwin-Williams Company	216 566-1792
Frank McHugh	The Sherwin-Williams Company	510 654-7997
Paul Germain	45th Street Artists Co-op	510 655-2807
Tom Kalinowski, Sc.D.	EKI	650 578-9131
Mara Feeney	Mara Feeney & Associates	415 863-5671
Jody Sparks	TAG	916 341-7795
Peggy Peischl	Treadwell and Rollo	510 253-4985
Jane Riggan, M.S.W.	CDHS	510 450-3773
Robert Cave	BAAQMD	415 749-5030

Comments: Work Plan for Locating the On-Site Abandoned Water Supply Well

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August 7, 1998

6427.00-002

Mr. Mark Johnson
California Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, California 94612

Subject: Work Plan for Locating the On-Site Abandoned Water Supply Well, Sherwin-Williams Facility, Emeryville, California

Dear Mark:

Levine · Fricke · Recon (LFR) has prepared this work plan on behalf of the Sherwin-Williams Company (Sherwin-Williams). The work plan presents the scope of work associated with locating the abandoned water supply well near Building 38 at the Sherwin-Williams Facility in Emeryville, California ("the Site").

BACKGROUND

A water well located adjacent to Building 38 was identified on several Sherwin-Williams facility drawings and aerial photographs. It appears the well was previously used as a water supply well between the early 1900s and the early 1960s (Figure 1). The well is marked as a 12-inch-diameter boring on two engineering drawings of the property dated from approximately 1910 and 1929. It is also visible on the composite Sanborn drawings dated from 1912 through 1951, which indicates a 4-inch-diameter well, 260 feet deep. The water supply well is shown beneath a 27,000-gallon water tank on a steel tower. The 27,000-gallon water tank is evident in aerial photographs from 1930, 1949, and 1959, and is no longer visible in a 1969 photograph. A 1963 drawing shows the handwritten directions "demolish and remove water tank" in reference to the 27,000-gallon tank, but no mention is made of the water supply well. No information is available regarding the method of well abandonment. The exact location of the abandoned well is currently unknown. However, the southeastern concrete footing from the steel tower for the former 27,000-gallon tank appears to be present at the site and was used to identify the approximate location of the abandoned well (Figure 1).

WORK PLAN TASKS

In order to prepare for the soil excavation, a contractor will be selected by Sherwin-Williams to remove and dispose of the 20,000-gallon above ground storage tank located

in the July 8, 1998 health and safety plan previously submitted to the RWQCB. The above-ground tank has been historically used as a holding tank for non hazardous rain water collected from several production areas at the facility. The rain water is routinely sampled by Sherwin-Williams personnel prior to discharging the storm water to the storm drain system under the Site storm-water discharge permit.

Using the existing concrete footing as a point of reference, the abandoned well is believed to be located near the southwestern corner of the concrete pad (Figure 1). After the above ground tank has been removed, a section of the concrete pad used for secondary containment of the 20,000-gallon tank will be saw cut and removed.

Once the section of the concrete pad is removed, a 10- by 15-foot area of soil will be excavated to locate the abandoned well. The initial size of the excavation will be limited to reduce the volume of soil generated. If the abandoned well is not encountered in the initial excavation, the area of the excavation will be expanded. The excavation will extend to the top of the water table at approximately 6 feet below ground surface (bgs). The on-site LFR construction engineer will evaluate if shoring is required on the sides of the excavation.

After the top of the abondoned well has been exposed, an LFR representative will visually inspect the abandoned well to confirm the method of abandonment for the well (e.g., if the well bore was grouted). If the visual inspection indicates that the well was not abandoned properly, LFR will abandon the well in accordance with the 1981 Department of Water Resources (DWR) California Well Standards.

All soil, concrete, and debris generated during these activities will be stored in an on-site soil bin. All soil removed from the excavated area will be stored in an on-site soil bin and sampled for waste profiling. To be conservative, all concrete and excavated soil will be handled assuming the materials are hazardous. After receipt of sample results, LFR will determine off-site disposal options.

After the well has been either confirmed as being properly abandoned or after it is abandoned by LFR under the 1981 DWR standards, the excavated area will be backfilled with clean soil. The site will be regraded and paved and then a new 10,000-gallon polyethylene above ground tank will be placed on site and used for future holding of rain water.

SCHEDULE

LFR anticipates the work for this activity to begin as soon as the end of August 1998. It is anticipated that the soil excavation can be completed in one to three days, and if necessary, the schedule for well abandonment will be evaluated based on the wells' condition.

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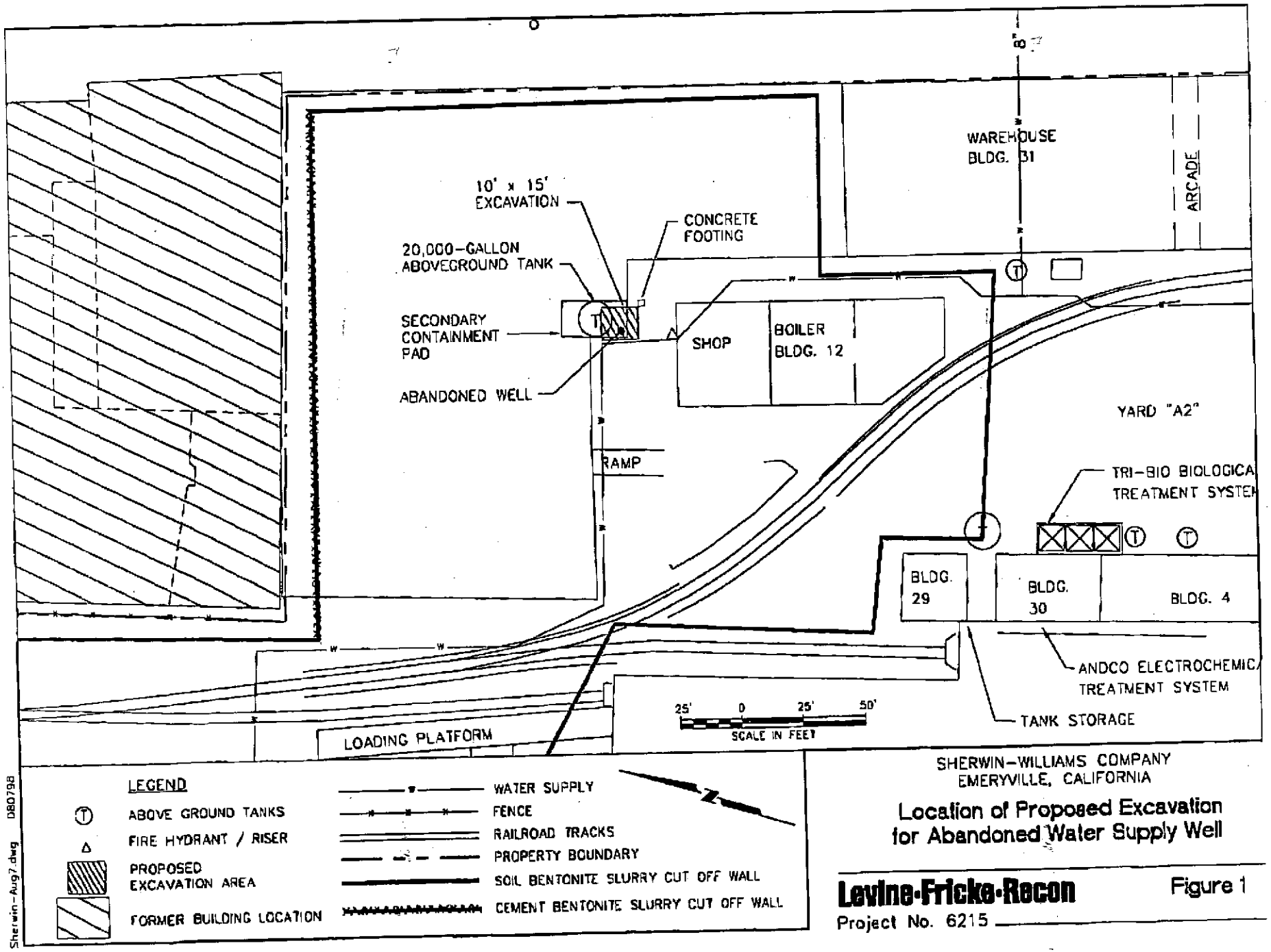
If you have any questions, please call Larry Mencin of the Sherwin-Williams Company at 216-566-1768 or the undersigned at 510-652-4500.

Sincerely,

Michael Marsden, R.G.
Senior Hydrogeologist



SHERWIN-WILLIAMS COMPANY
EMERYVILLE, CALIFORNIA

Location of Proposed Excavation for Abandoned Water Supply Well

Levine-Fricke-Recon Figure 1

Project No. 6215