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"IMAGINEERING A CLEANER WORLD"

RIEDEL ENVIRONMENTAL SERVICES, INC.

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December 15, 1987

OLIVER de SILVA, INC.
P.O. Box 4437
Hayward, California 94540

Attention: Pete Davos

Subject: Underground Storage Tank Removals

Dear Mr. Davos:

Riedel Environmental Services, Inc. (RES) is pleased to submit to Oliver de Silva (ODS) this report describing our activities at your Castro Valley construction site during the period of October 21, 1987 through November 10, 1987.

The results of our work at Site No. 1 (corner of Castro Valley Boulevard and Foothill Boulevard) were the removal of the tanks and site closure. Due to the fact that the contamination at this location was so localized and low level, we are not recommending a monitoring well.

At Site No. 2 (location of abandoned Cal Trans Maintenance Yard) we utilized every type of investigation at our disposal to find the tank and were not successful. Our conclusion is that it is very likely that the tank was removed at some time prior to our excavation activities.

We look forward to the opportunity to work with you in the future. If you have any questions, please feel free to contact me.

Sincerely,
Riedel Environmental Service, Inc.

John R. Fulkerson

John R. Fulkerson
Project Manager

Attachments

cc: Bob Bowman, Castro Valley Fire Department
Ray Burton, Cal Trans
Ted Gerow, Alameda County Department of Environmental Health

## 1.0 INTRODUCTION

This report presents the results of an underground storage tank identification and removal project performed by Riedel Environmental Services, Inc. (RES) for Oliver de Silva, Inc. (ODS). The site is located near the intersection of Castro Valley Boulevard and Foothill Boulevard in Castro Valley, California.

### 1.1 Site History

Site #1, which is located on the north corner of the intersection of Castro Valley Boulevard and Foothill Boulevard, was an abandoned service station. This entire area is part of a freeway interchange construction project being installed by Cal Trans. During excavation for a storm drain catch basin in October, 1987, a contractor hit an underground storage tank. At that time work was ceased in the immediate vicinity of the tank and the excavation was backfilled.

Site #2, which is located north of Castro Valley Boulevard approximately 500 feet northeast of Foothill Boulevard, was originally a PG&E service yard. Ownership was subsequently transferred to East Bay Municipal Utility District and then Cal Trans. The construction drawings for the freeway construction show the location of a 1,000 gallon underground storage tank in this service yard. Much of this area has recently been covered by up to 10' of fill in preparation for construction of the freeway interchange.

### 1.2 Scope of Work

RES was retained to remove the two underground storage tanks in October, 1987. The purpose was to close the two sites before construction progressed to a point that work in the areas was impractical. Field work commenced on October 21, 1987. The project consisted of removal of the tanks at both sites along with a soil investigation to determine whether soil contamination existed at the locations.

During excavation for removal of the tank at Site #1, two other tanks were discovered and also removed. Soil samples were taken from under both ends of all of the tanks. These samples were submitted to a state certified laboratory for analysis for total petroleum hydrocarbons and lead. A description of this work is presented in Section 2 of this report.

## 2.0 FIELD ACTIVITIES

### 2.1 Tank Removal at Site #1

RES started excavation for Tank #2, at the location shown on Figure 1. During excavation it was discovered that the tank was much longer than had been anticipated and a concrete block which was anchoring a guy wire to a power pole at the corner of the intersection would have to be moved. During the time it took to relocate the guy wire, work commenced on excavation at Site #2. After the guy wire was moved, excavation to remove Tank #2 was completed and the tank was inerted with dry ice. Tank #2 was then pulled and transported to a location northwest of the excavation area for cleaning. The tank had a 4,000 gallon capacity and was 6'2" diameter and 18' long. It was intact with the exception of a hole in the top at the south end which was caused when it was hit by the contractor's backhoe during the storm drain excavation.

During excavation for Tank #2, two additional tanks were discovered. Tank #1 was located to the east of and parallel to Tank #2. This tank was excavated, inerted, and pulled next. It was transported to a location next to Tank #2 for cleaning. Tank #1 had a 2,000 gallon capacity and was of 6'2" diameter and 9' long. This tank was intact with no visible damage or holes when pulled.

Tank #3 was located to the west of and parallel to Tank #2. During excavation it was discovered that there was approximately 8" of product in the tank. This product was removed by vacuum truck prior to inerting the tank with dry ice. The product was then transported to a licensed Treatment, Storage, and Disposal Facility for recycling. The tank was then pulled and transported to a location adjacent to Tank #2 for cleaning. The tank was intact with no visible damage or holes when pulled.

Product lines were removed by digging trenches from the points where the lines left the excavation. The lines were dry and the fill material showed no signs of contamination. The lines got progressively deeper as they were removed due to the presence of an embankment for a new freeway overpass. For this reason, we stopped removal of the lines as soon as they changed direction toward the same location. It is assumed that this was the location of the pump island.

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# Figure 1

## SITE NO. 1

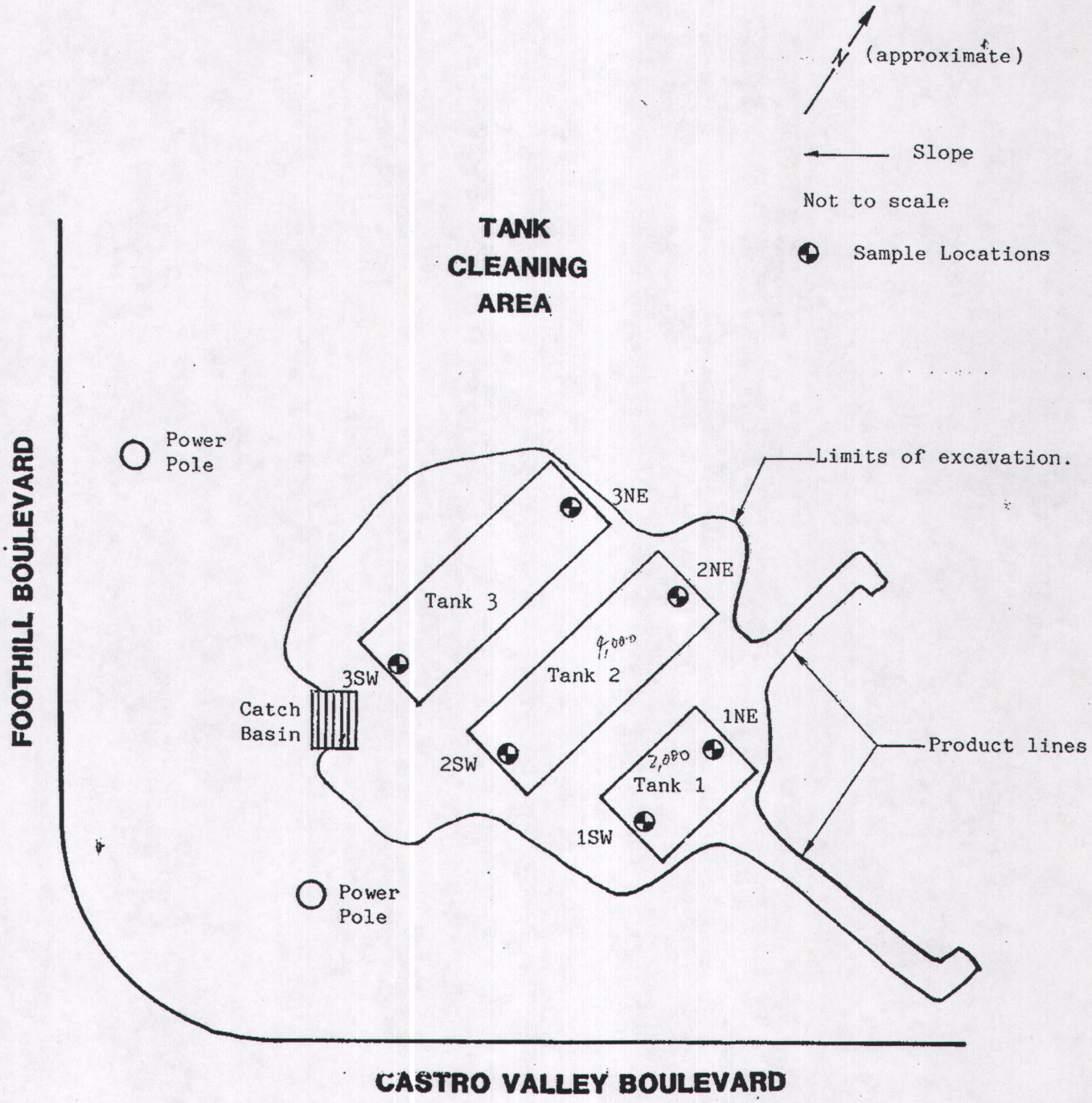

TABLE 1

Results of Soil Sample Analysis
Cal Trans Castro Valley

Total Petroleum Hydrocarbons

| Sample Number | Gasoline (mg/Kg) | Kerosene (mg/Kg) | Diesel (mg/Kg) |
|---|---|---|---|
| 1 NE | ND (10) | ND (10) | ND (10) |
| 1 SW | ND (10) | ND (10) | ND (10) |
| 2 NE | ND (10) | ND (10) | ND (10) |
| 2 SW | ND (10) | ND (10) | ND (10) |
| 3 NE | ND (10) | ND (10) | ND (10) |
| 3 SW | 110 | ND (10) | ND (10) |

| Sample Number | Lead (mg/Kg) | TTLC Wet-Weight (mg/Kg) | STLC (mg/Kg) |
|---|---|---|---|
| 1 NE | 2.8 | 1,000 | 5.0 |
| 1 SW | 14 | 1,000 | 5.0 |
| 2 NE | 6.5 | 1,000 | 5.0 |
| 2 SW | ND (0.5) | 1,000 | 5.0 |
| 3 NE | 2.0 | 1,000 | 5.0 |
| 3 SW | ND (0.5) | 1,000 | 5.0 |

mg/Kg - Miligrams per Kilogram (ppm)
ND (10) - None Detected (detection limit in ppm)
TTLC - Total Threshold LImit Concentration
STLC - Soluble Threshold Limit Concentration