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LETTER REGARDING RESULTS OF TEST PIT PROGRAM AT AMERADA HESS  
CHARLESTON SOUTH TERMINAL CNC CHARLESTON SC  
10/21/1996  
H2O ENVIRONMENTAL INC



October 21, 1996

Mr. Peter M. Haid, Manager  
Marketing Environmental Affairs  
Amerada Hess Corporation  
One Hess Plaza  
Woodbridge, NJ 07095

RE: Results of Test Pit Program  
Amerada Hess Charleston South Terminal  
4650 Virginia Avenue  
North Charleston, South Carolina

**RECEIVED**

OCT 30 1996

Groundwater Assessment  
and Development Section

Dear Mr. Haid:

Per your request, H<sub>2</sub>O Environmental, Inc. conducted a test pit program at the above referenced facility on October 10, 1996. The program was conducted in response to discovery of what appeared to be petroleum free product (diesel odor) in a well (NBCA-039-011) on the Charleston Naval Base located near the Hess Terminal property boundary.

Five test pits were dug with an onsite backhoe to approximately 7 to 8.5 feet below land surface (BLS). Ground water was encountered in all pits at depth from 6 to 7.5 feet BLS. Soil samples were collected at various depths and the samples analyzed with a Foxboro 128 Organic Vapor Analyzer (OVA) with a flame ionization detector. The location of the test pits, the depth of the samples and the corresponding OVA reading are shown on the attached Figure 1. Also shown on Figure 1 is data (provided by the Navy) from shallow wells on the Navy base along the Hess property.

Separate phase hydrocarbon (SPH) was observed on the water that accumulated in each of the test pits. The odor of the SPH and the soil samples was indicative of diesel fuel with the exception of TP-5 which exhibited a mixture of diesel odor and an unusual odor that was not readily identifiable.

The lithology identified in the test pits was generally a fine, silty sand from 0 to 3 feet BLS, a slightly clayey sand from 3 to 4 feet BLS and a sandy clay from 4 to 6.5/7 feet BLS. A clay layer was encountered from approximately 6.5 to 7 feet BLS to the bottom of each excavation. All excavations were backfilled at the end of the day.

Please do not hesitate to call me at (800) 251-4374 if you have any questions.

Sincerely,

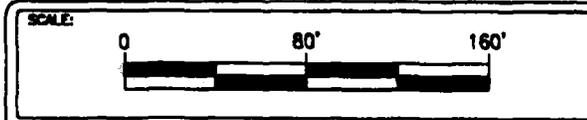
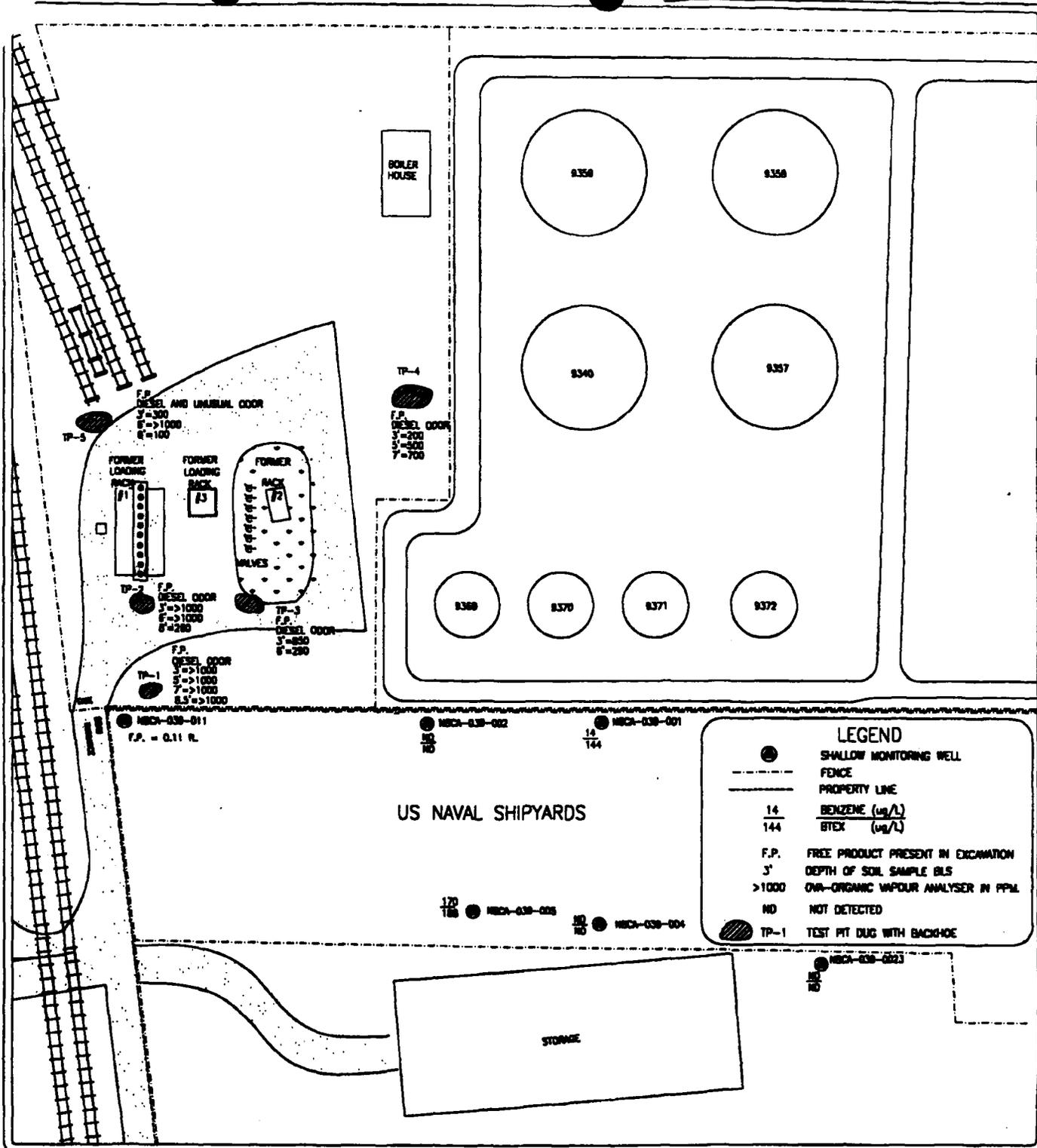
H<sub>2</sub>O Environmental, Inc.

Joseph A. Farry, P.E.  
Division Director

JAF/jlb

Attachments

**H<sub>2</sub>O ENVIRONMENTAL, INC.**  
SCIENTISTS & ENGINEERS



PREPARED FOR:  
**AMERADA HESS**

DRAWN BY:  
**dburritt**

**H<sub>2</sub>O** **H<sub>2</sub>O ENVIRONMENTAL, INC.**  
SCIENTISTS & ENGINEERS

SITE ADDRESS:  
**CHARLESTON SOUTH TERMINAL  
5150 VIRGINIA AVENUE  
NORTH CHARLESTON, SC**

DATE DRAWN:  
**10/21/96**

JOB NUMBER:  
**1715.4066**

FIGURE NUMBER:  
**1**

FIGURE TITLE: **SITE MAP WITH TEST PIT LOCATIONS**