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8 Jul 1997

From: Commanding Officer, Engineering Field Activity, West, Naval Facilities Engineering Command

Subj: REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) FOR
NAVAL STATION TREASURE ISLAND (NAVSTA TI)

Encl: (1) Draft Bench-Scale Soil Bioremediation Treatability Study Report dtd 8 July 1997

1. Enclosure (1) is provided for your review and comments. Please submit your comments on or before 11 August 1997. This document describes the execution, results, and conclusions of the treatability study in which soil containing petroleum hydrocarbons was collected from various NAVSTA TI installation restoration sites, separated into three samples, and treated with different amendments. Analysis indicated that soils amended with nutrients and inoculants experienced a significant decrease in petroleum hydrocarbon concentrations.

2. Thank you for your guidance and involvement in this project. For further information, please call me at (415) 244-2560.

Original signed by:

ERNESTO M. GALANG
By direction of
the Commanding Officer

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File: NAVSTA Treasure Island

**DRAFT BENCH-SCALE SOIL BIOREMEDIATION TREATABILITY STUDY REPORT
NAVAL STATION TREASURE ISLAND**

SYNOPSIS

Soil samples containing hydrocarbons were gathered from representative installation restoration sites at Naval Station Treasure Island. In a controlled laboratory setting, one sample of this soil was fertilized with the primary biological nutrients nitrogen and phosphorous, another with nitrogen, phosphorous, and a commercial biological amendment, and a third was kept as an unfertilized and unamended control sample for purposes of comparison. The samples were analyzed initially and at regular intervals over a 120 day period for a variety of parameters, including total petroleum hydrocarbons (TPH)-gasoline and TPH-diesel. For both TPH-diesel and TPH-gasoline in either of the fertilized samples, concentration reductions of at least 70% were observed, indicating that bioremediation is a viable treatment option that should be considered further in the feasibility study and corrective action plan.

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ENCLOSURE

DRAFT
TREATABILITY STUDY REPORT
BENCH-SCALE SOIL BIOREMEDIATION

DATED 08 JULY 1997

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