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MCRD PARRIS ISLAND
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LETTER REGARDING RELOCATION OF MOTOR TRANSPORTATION FACILITY TO SITE 27
EQUIPMENT PARADE DECK WITH ATTACHMENT MCRD PARRIS ISLAND SC
11/29/2007
MCRD PARRIS ISLAND



UNITED STATES MARINE CORPS

MARINE CORPS RECRUIT DEPOT/EASTERN RECRUITING REGION
P.O. BOX 19001
PARRIS ISLAND, SOUTH CAROLINA 29905-9001

5090/10.1

NREAO

November 29, 2007

Ms: Lila Llamas
Senior Remedial Project Manager
Federal Facilities Branch
Waste Management Division
U.S. Environmental Protection Agency
Atlanta Federal Center
Atlanta, GA 30303-8960

RE: Site/SWMU 27 Equipment Parade Deck: Geotechnical Investigation

Dear Ms. Llamas,

Marine Corps Recruit Depot Parris Island is planning to relocate the Motor Transportation facility consisting of a garage and other related facilities/equipment to a location on/near the site of SWMU 27, the former Equipment Parade Deck.

This site is located on an asphalt pad situated in the northeast section of the Depot (on the former 3rd Battalion Parade Deck). Additionally, the site is approximately one acre in size and the Depot currently uses this site as an equipment laydown area and for storage of salvage items.

Prior to designing the facilities for this project, the Depot needs to examine the underlying geotechnical characteristics of the site. To accomplish this, we propose to have our contractor collect geotechnical data from borings in support of the design effort.

This effort will involve nine soil test borings and three hand auger sampling sites at the locations shown on the attached map. The map shows that seven of the nine borings would be to a depth of 40' with two more being 10' and 15'. It is noted here that for all borings including those stated as being 40', no penetration will exceed the marl layer regardless of depth. We further propose to define the marl as a gray to olive green silty sand (SM) or sandy silt (ML/MH) with standard penetration test (SPT) blow counts in excess of 30 blows per foot. We will stop at this depth, or marl layer so as to assure no penetration of any confining layer.

There is some groundwater contamination (pesticides and Volatile Organic Compounds) in the wells nearest these geotechnical boring locations, but there are no groundwater data right at these locations. Assuming the nearby wells are good surrogates for the geotechnical borings, caution will be required to avoid unnecessary dermal contact, inhalation, or ingestion of this groundwater.

Additionally, taking the precaution on stopping the borings at 40' or upon encountering the top of the marl, should preclude any confining unit issues.

Upon completion of the borings, the boring locations will be abandoned in accordance with South Carolina Well Standards 61-71.H.2.e:

"Abandonment shall be by forced injection of grout or pouring through a tremie pipe starting at the bottom of the well and proceeding to the surface in one continuous operation. The well shall be filled with either with neat cement, bentonite-cement, or 20% high solids sodium bentonite grout, from the bottom of the well to the land surface."

The material removed during the course of these borings will be containerized and disposed of in accordance with waste characterization analysis.

The contractor doing this work will be required to provide a Health and Safety Plan (HASP). This HASP will require as a minimum Level D protection (long sleeves, long pants, nitrile or leather gloves with surgical style inner gloves, safety glasses, hardhat, steel toe shoes, hearing protection.) The contractor will use a soap and water wash for any exposed skin, equipment, or clothing.

Breathing space air monitoring will be required. The field personnel would be required to have a 10.6 eV lamp Photo Ionization Detector (PID) to indicate if contaminant concentrations were higher than expected, although DDT and the major metabolites might not cause a significant PID response. Any observed PID reading should be further investigated as directed in the HASP.

Request your review and comments regarding the proposed geotechnical survey.

Should you have questions, please contact Dr. Heber Pittman at (843) 228-3615.

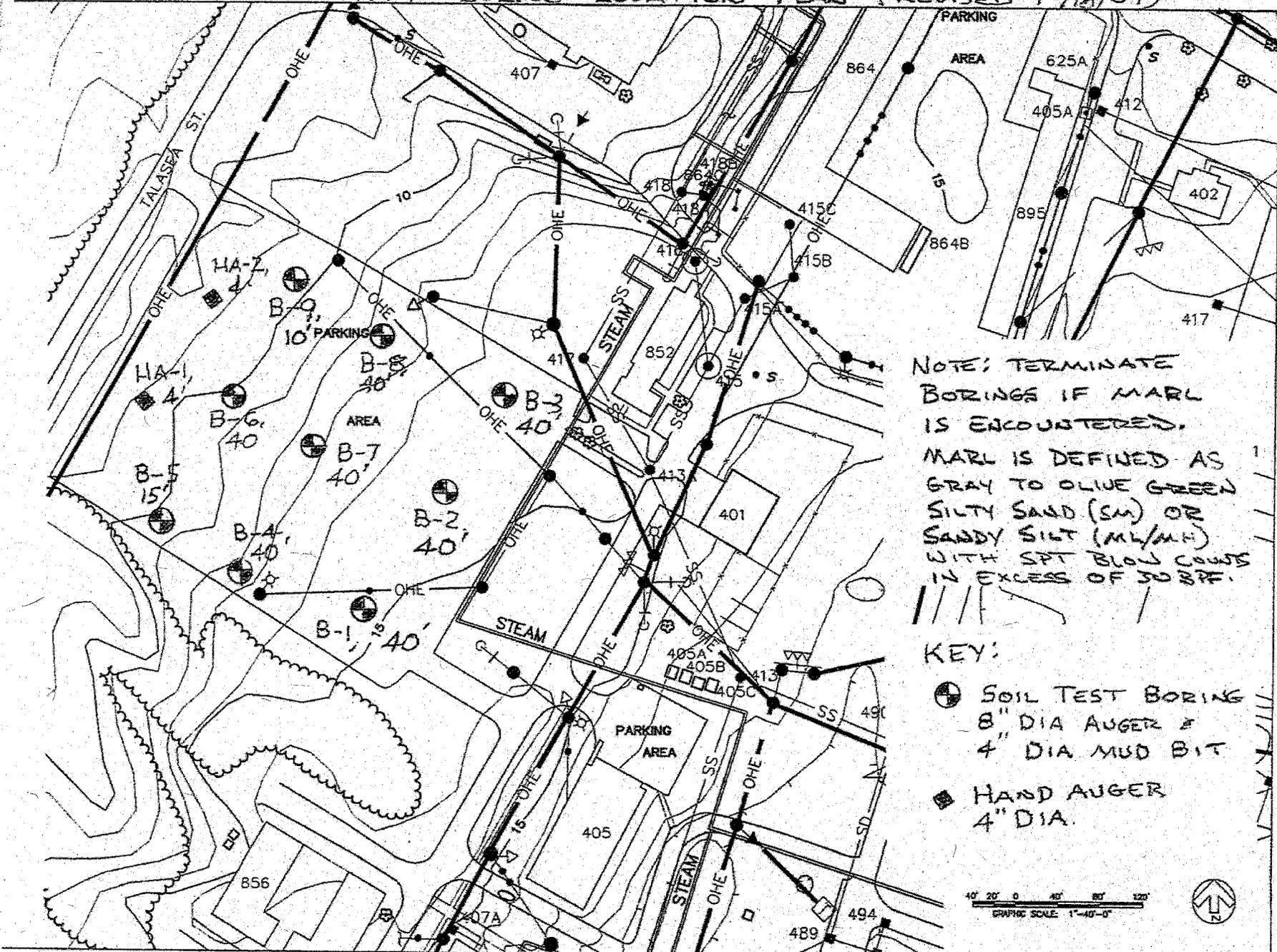


C. D. HENDERSON
Colonel, USMC
By direction of the
Commanding General

Encl:

Map of Geotechnical Boring Locations

MTF BORING LOCATION PLAN (REVISED 10/18/07)



NOTE: TERMINATE BORINGS IF MARL IS ENCOUNTERED. MARL IS DEFINED AS GRAY TO OLIVE GREEN SILTY SAND (SM) OR SANDY SILT (ML/MLH) WITH SPT BLOW COUNTS IN EXCESS OF 30 SPT.

- KEY:
- ⊕ SOIL TEST BORING
8" DIA AUGER &
4" DIA MUD BIT
 - ◆ HAND AUGER
4" DIA.

