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CNC CHARLESTON
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LETTER REQUESTING APPROVAL FOR CONE PENETROMETER LOGS NEAR SOLID
WASTE MANAGEMENT UNIT 39 ZONE A CNC CHARLESTON SC
9/13/1996
ENSAFE/ ALLEN AND HOSHALL

EnSafe / Allen & Hoshall

a joint venture for professional services

2906 08420

September 13, 1996

Mr. Paul Bergstrand
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, SC 29201

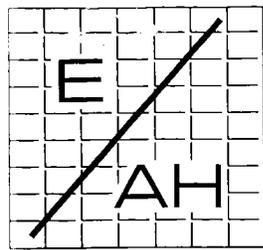
**RE: Request for Approval of Cone Penetrometer Borings
Zone A, SWMU 039, Naval Base Charleston, Charleston, South Carolina**

Dear Mr. Bergstrand:

In accordance with the SCDHEC *Well Standards and Regulations R. 61-71*, EnSafe Allen and Hoshall (E/A&H) is seeking approval to install a minimum of 33 cone penetrometer borings in the vicinity of SWMU 039 in Zone A at the Naval Base Charleston (NAVBASE). The proposed borings include locations both on and off NAVBASE property. The samples will be designed as NBCA\039CP001 through NBCA\039CP033.

The cone penetrometer borings shall be installed in order to further evaluate the extent of an "intermediate" water bearing zone that is created by the presence of a discontinuous marsh clay layer. The marsh clay layer is suspected to be playing an important role in the migration of chlorinated compounds detected in groundwater at SWMU 39. Groundwater samples will be collected from selected locations on NAVBASE property based upon the stratigraphic information provided by the cone penetrometer probe. Presently, only two groundwater samples are planned from the intermediate water bearing zone, anticipated at approximately 20-30 feet bgs. In addition to defining the subsurface lithology, the cone penetrometer data will be used to select the optimal screened intervals of permanent monitoring wells to be installed after the screening effort is complete. Off NAVBASE property fifteen shallow groundwater samples are to be taken from the upper 15 feet of the subsurface. The samples shall be analyzed by an SCDHEC certified laboratory for volatile organic compounds. The cone penetrometer borings shall be installed in accordance with Section 6.1 (Revision No. 02) of the *Final Comprehensive Sampling and Analysis Plan (CSAP)* dated July 30, 1996.

Due to the sensitive nature of the site and the need to perform the investigation expeditiously, the Navy also requests the flexibility to install up to 10 additional cone penetrometer borings at locations yet to be determined. These supplemental borings would be installed only if needed to continue plume delineation and would be numbered sequentially following the scheme used for the borings on the enclosed site map. If such a need arises, Project Team personnel would be notified immediately.



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The cone Penetrometer subcontractor is tentatively scheduled to initiate field work on Saturday, September 14, 1996 and drilling activities are scheduled to begin on Sunday, September 15, 1996.

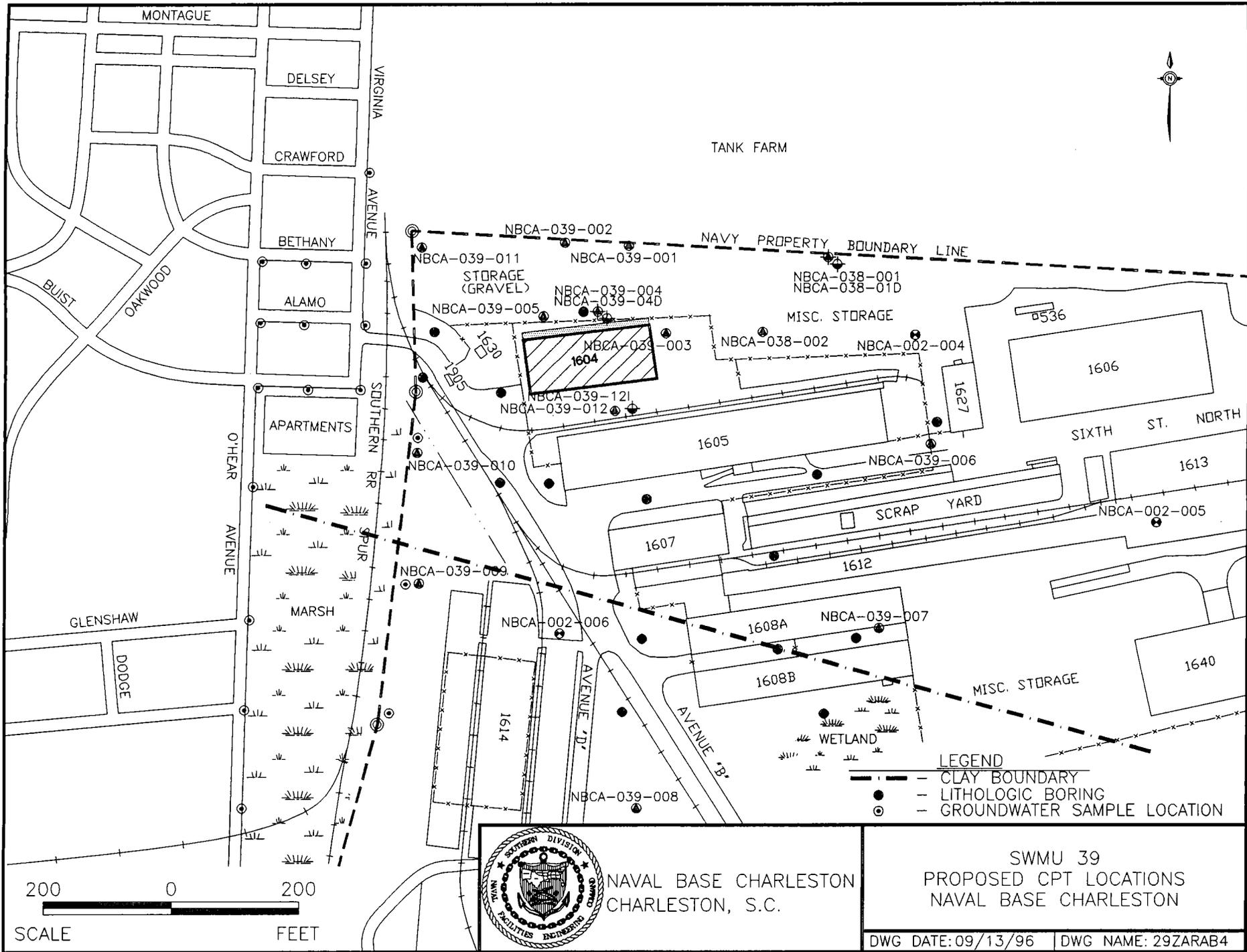
If you have any questions, comments or need additional information, please do not hesitate to call me at (803) 884-0029 or Mr. Peter Bayley onsite at NAVBASE Charleston at (803) 747-0336. We look forward to hearing from you on this matter.

Sincerely,
EnSafe/Allen & Hoshall



By: Todd Kafka
Geologist

cc: Mark Hancher, EnSafe
Tony Hunt, SOUTHDIV
Project File, 2901-08420



NAVAL BASE CHARLESTON
CHARLESTON, S.C.

SWMU 39
PROPOSED CPT LOCATIONS
NAVAL BASE CHARLESTON

DWG DATE: 09/13/96 | DWG NAME: 29ZARAB4