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MONITORING WELL REQUEST AREA OF CONCERN 694 (AOC 694) CLOUTER ISLAND
ZONE K CNC CHARLESTON SC
4/5/2002
SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL



2600 Bull Street
Columbia, SC 29201-1708

05 April 2002

CERTIFIED MAIL

Ms. Amy Daniell
Caretakers Site Office
1895 Avenue F
Charleston Naval Base
North Charleston, SC 29405

RE: Naval Base Charleston (CNAV)
Charleston, South Carolina
SC0-170-022-560

Monitoring Well Request
Zone K, Clouter Island, AOC 694
Revision 0, Dated 26 March 2002, Received 27 March 2002

Dear Ms. Daniell:

The above referenced request has been reviewed with respect to R.61-79.265 Subpart F of the South Carolina Hazardous Waste Management Regulations and R.61-71 of the South Carolina Well Standards and Regulations. This request is for the installation of two temporary monitoring wells to monitor the surficial aquifer. Because the monitoring wells are temporary they should be properly abandoned within five days of installation. The well installation and abandonment has been discussed with Mr. Peter Bayley and Mr. Steve Parker of Ensafe. The temporary monitoring wells should be completed to a maximum depth of approximately fifteen feet.

The associated workplan for this site has not been received or reviewed by the State. The monitoring well approval is not to be considered as concurrence or approval of any associated workplan. Additional assessment may be necessary. Please direct your attention to Condition 3 of this well approval. Condition 3 states "*That the latitude and longitude, surveyed elevations, boring and/or geologist logs, and actual construction details for each well be submitted to the Department within 30 days after installation of the last well.*" Failure to meet this condition may be considered a violation of the monitoring well approval. Should the Navy wish to submit this information on a different schedule, the Department will be available to discuss the proposal.

Attached, please find a copy of the proposed well locations. A copy of the well approval form and this letter should be on site during drilling operations. Additional assessment may be required at this well location. Should there be any questions, please contact me at 803.896.4016 or by e-mail at bergstpm@dhec.state.sc.us.

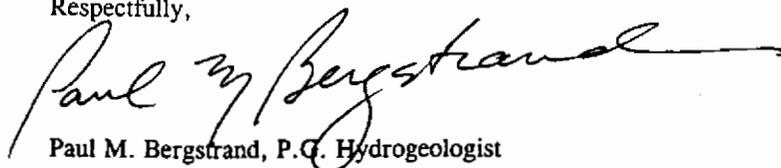
DD020246.PMB

Daniell

Monitoring Well Approval

5 April 2002

Respectfully,

A handwritten signature in cursive script that reads "Paul M. Bergstrand". The signature is written in black ink and is positioned above the typed name.

Paul M. Bergstrand, P.G. Hydrogeologist

RCRA Hydrogeology Section

Division of Hydrogeology

Bureau of Land and Waste Management

Enclosures

HW-02-0134

CC: Christine Sanford-Coker, Trident District EQC
Michael Bishop, BOW
Jerry Stamps, BLWM
Joel Padgett, BLWM
Rob Harrell, P.E., Southern Division, Charleston
Peter Bayley, Ensafe, 313 Wingo Way, Mt Pleasant, SC 29464



2600 Bull Street
Columbia, SC 29201-1708

Well Installation Approval

Approval is hereby granted to: Ms. Daniell of the Naval Base Charleston for

Monitoring Wells at AOC 694
Naval Base Charleston
Charleston County

Date of Issue: 5 April 2002
Approval Number: HW-02-034

for the construction of two temporary monitoring wells designated in accordance with the construction plans and specifications submitted to the Department on 27 March 2002, (Bayley to Bergstrand). The wells will be constructed within the surficial aquifer to a maximum depth fifteen feet below the surface to monitor aquifer conditions. The wells will be properly abandoned within five days of installation.

Conditions:

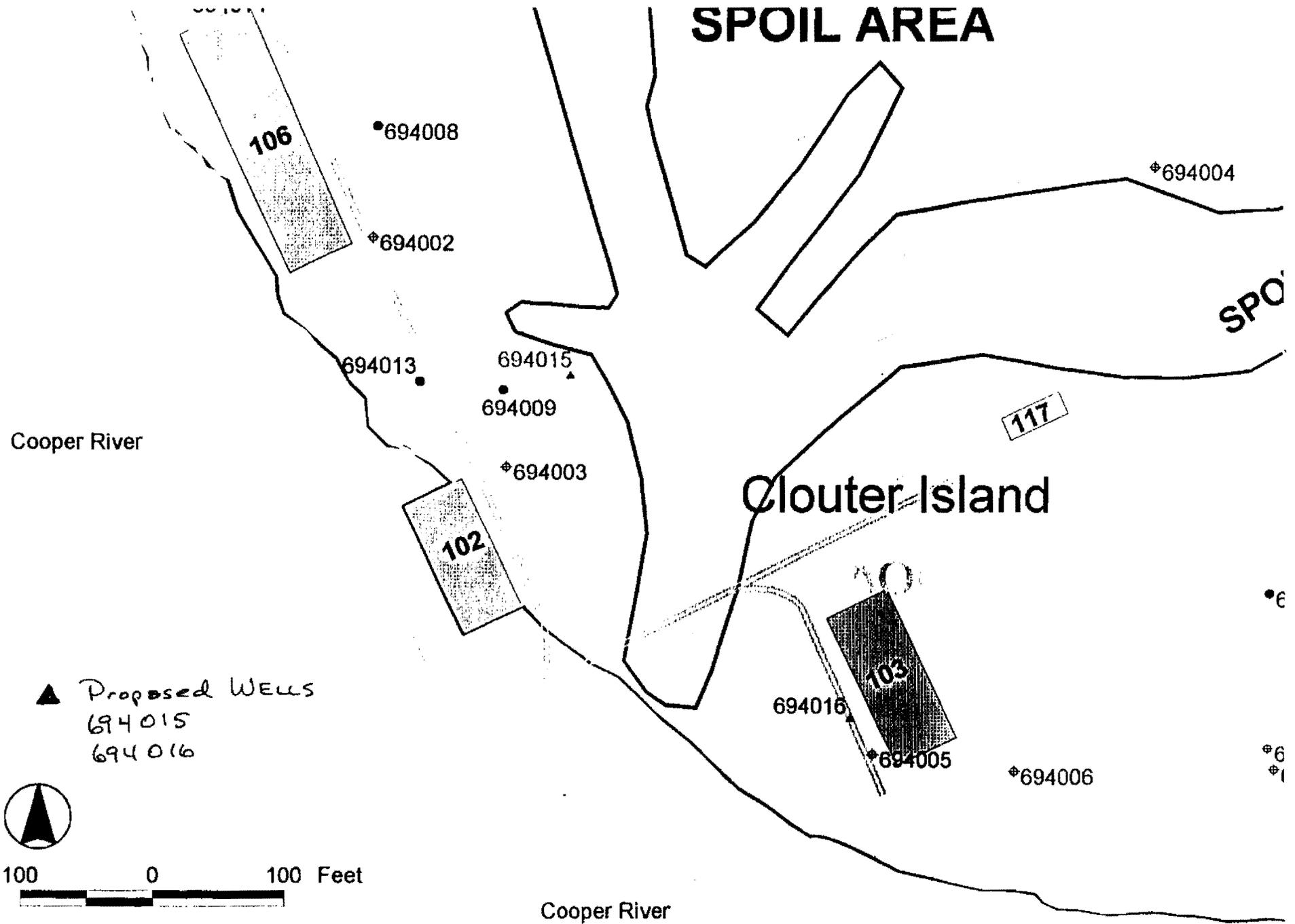
1. A driller certified to operate in the State of South Carolina must install the wells.
2. The monitoring wells must be properly developed until clear, sediment-free water samples are obtained. Specific conductance, temperature, turbidity, and pH measurements should be recorded during development. A log recording the values of these parameters should be maintained and submitted along with the "as-built" construction details required by condition 3.
3. That the latitude and longitude, surveyed elevations, boring and/or geologist logs, and actual construction details for each well be submitted to the Department within 30 days after installation of the last well. The collection of GPS data is encouraged.
4. That requirements R.61-71.11.C(1-7) for completing these borings as permanent monitoring wells are waived.
5. Field equipment, including sampling probes, must be decontaminated by steam cleaning or other suitable methods before use and between sampling locations. Well screens and casing must be decontaminated before installation.
6. All well construction and sampling derived wastes, including but not limited to, drill cuttings and fluids, development and purge water, must be managed properly and in accordance with all applicable state and federal requirements. If containerized, each vessel shall be clearly labeled with regard to contents, source, and date of activity.
7. That notice be given to Christine Sanford-Coker, Charleston District EQC Hydrogeologist, during normal business hours at (803) 740-1590 a minimum of 48 hours before the initiation of drilling activities.

This approval is pursuant to the provisions of Section 44-55-40 of the 1976 South Carolina Code of Laws and the Department of Health and Environmental Control Well Standards and Regulations, R.61-71.

Paul M. Bergstrand, P.G. Hydrologist
RCRA Hydrogeology Section
Division of Hydrogeology
Bureau of Land and Waste Management

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SPOIL AREA



Proposed Well Locations For Clouter Island RFI Well Permit Application