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CNC CHARLESTON
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LETTER REGARDING REQUEST TO INSTALL TWO TEMPORARY MONITORING WELLS
CNC CHARLESTON SC
01/30/2009
CH2M HILL



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LAND REVITALIZATION
DIVISION - BLWM

CH2M HILL

1330 Kilo Street

Charleston Naval Complex

North Charleston, SC 29405

Tel 843-200-3825

Fax 843-740-9135

January 30, 2009

Mr. Tom Knight
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia, SC 29201-1708

Subject: Request for Installation of two (2) temporary groundwater monitoring wells
NS-2/3, UST Permit No. 17595 and 00961
Charleston Naval Complex, North Charleston, South Carolina

Dear Mr. Knight:

CH2M HILL, on the behalf of the U.S. Navy Southern Division Naval Facilities Engineering Command, respectfully request a permit for installation of two (2) temporary groundwater monitoring wells to be located at the above-referenced site. The wells will be installed to allow for the collection of groundwater samples to determine if contaminants of concern are present in the groundwater beneath the site. Each well will be sampled for VOCs and SVOCs using EPA methods 8260 and 8270. The wells will be installed at the locations of the previously collected grab samples, which were obtained during the demolition of the building formally located on site. The well locations are depicted on the attached figure.

Each well will be constructed using one-inch Schedule 40 PVC and equipped with a 10-foot .010-slot screen that will intersect the water table. Each well will be equipped with a pre-packed 20/30 silica sand filter that will extend from the bottom of the well to approximately one foot above the well screen. A one-foot thick bentonite seal will be placed above the filter media, and the remainder of the annulus will be back filled to the surface with native soil. Each well will be approximately 13 feet deep. The wells will be installed using a truck-mounted drill rig by a State of South Carolina licensed well driller. Well construction details are provided on Table 1.

Following installation, each well will be developed using a peristaltic pump until the discharge is free of sediment and groundwater parameters have stabilized with a turbidity reading below 10 nephelometric turbidity units. Following development, the wells will be allowed to remain undisturbed for at least 24 hours prior to collection of groundwater samples. Once the samples have been collected, the wells will be abandoned by removing the casings and screens and grouting the borehole with neat cement. A SCDHEC 1903 Water Well Record form will be completed for each well and submitted within 30 days of completion.

If you have any questions, comments, or require additional information, please contact me at 843.200.3825.

Sincerely,

CH2M HILL

Andrew O'Connor
Geologist

A handwritten signature in black ink, appearing to read 'Andrew O'Connor', written in a cursive style.

Enclosures:
Cc:

Gary Foster/CH2M HILL/ATL
Dean Williamson/ CH2M HILL/GNV

**Table 1
Well Construction Data**

Well Identification	Well Diameter (Inner & Outer)	Method of Drilling	Screen Depth (ft bls)	Screen Length (ft)	Screen Slot Size/ Filter media	Expected Total Depth of Well (ft bls)	Material of Well Construction	Well Purpose	Development (e.g., low flow, bailer, etc.)	Well Seal	Finish Type
NS2/3TW01 NS2/3TW02	1-inch (inner)	Direct-Push Technology	3 to 13	10-feet	0.010 / 20/30 silica	13	Schedule 40 PVC	Groundwater monitoring	Low Flow Pump	Bentonite	None (temp well)

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LAND REVEGETATION
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- ⊗ Abandoned Monitoring Well
- Proposed Temporary Well Location
- Roads - Lines
- - - Pavement
- - - Sidewalk
- - - Shoreline

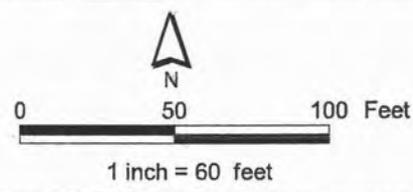


Figure 1
 NS2/3
 Location Map
 Charleston Naval Complex