

 **Battelle**  
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NSWC PANAMA CITY  
5090.3a

June 26, 1997

Northwest Florida Water Management District  
Route 1, Box 3099  
Havanna, Florida 3233-9700  
Attention: Angela Chelette

Dear Ms. Chelette:

**CONSUMPTIVE USE PERMIT FOR VACUUM-ENHANCED FREE-PRODUCT RECOVERY SYSTEM AT AREA OF CONCERN 1, COASTAL SYSTEMS STATION, PANAMA CITY FLORIDA**

The intent of this letter is to apply for a consumptive use permit for a vacuum-enhanced free-product recovery system that will be installed at Area of Concern 1 at the Coastal Systems Station (CSS), Panama City, Florida. The system is being designed and installed to fulfill the corrective action requirements of the CSS's Resource Conservation Recovery Act (RCRA) requirements. The primary objective is to recover free-floating product existing as light, nonaqueous-phase liquid at the groundwater interface. A copy of the final conceptual design for this restoration project is enclosed. The conceptual design has been signed and sealed by Ms. Shelley Gisclar, a Florida-Registered Professional Engineer (P.E.) employed by Geotechnical Professional Associates, Orlando, Florida and has been approved by Mr. John Mitchell of the Florida Department of Environmental Protection, Tallahassee, Florida.

The vacuum-enhanced system will withdraw groundwater, free product, and soil gas in one process stream using a single aboveground pump. Five 2-inch-diameter and twelve 4-inch-diameter wells will be utilized. The wells will be screened to depths not greater than 13 feet. The groundwater will be separated from the free product using a slant rib coalescing oil/water separator. The groundwater will be pretreated and discharged to the CSS Waste Water Treatment Plant. The free product will be transported from the site and recycled. The system will be operated to optimize free-product recovery and minimize groundwater extraction. It is our intent to begin installing the extraction wells and the full-scale process equipment during the week of July 14<sup>th</sup>. Operation of the system will commence the week of July 28<sup>th</sup>. It is estimated that the system will be operated for up to 1 year. The maximum water extraction rate will not exceed 15 gal/min (648,000 gal/month).

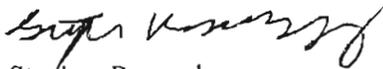
Ms. Angela Chelette

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We request a temporary water use permit while our application for a standard consumptive use permit is being reviewed. A temporary permit is desired so that we may begin remedial activities on schedule. A check #81684, for \$150 is enclosed with this letter. Also enclosed is a map showing the location of CSS Panama City and a site map showing the locations of the proposed extraction wells. If you have any questions, please feel free to contact me at (614) 434-7289.

Sincerely,



Stephen Rosansky

Environmental Engineer

Environmental Restoration Department

SR:rsc

Enclosure

cc: B.K. Moring – letter only  
Mike Cross  
Arturro McDonald  
John Mitchell – letter only