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Hydrogeologic Investigation and Establishment of a Permanent Multi-Observational Well Network in Aiken, Allendale and Barnwell Counties, South Carolina -- Phase III

By

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ABSTRACT

The South Carolina Water Resources Commission in conjunction with the Department of Energy's (DOE) Savannah River Laboratory is investigating the hydrogeology in Aiken, Allendale, and Barnwell Counties, South Carolina. The purpose of this study is to define the complex regional stratigraphy and evaluate the water availability, quality, and movement in the area. Phase III is a continuation of the project that was started in 1986 and has added the fifth well-cluster site to the four existing sites that were completed during Phases I and II.

Phase III of this project began on July 19, 1988 and was completed on January 21, 1989. Two observation wells were cored, geophysically logged, cased, screened, developed and surveyed at well-cluster site C-10. Chainlink fences were installed around sites C-3, C-5, and C-10, and automatic water-level records were installed at sites C-3 and C-5. Water samples for chemical analysis were taken at C-2, C-3, C-5, C-6, and C-10 and water-level measurements were recorded. The core was transported to the South Carolina State Geological Survey for permanent storage on racks in their subsurface sample repository. Samples have been collected from the five cores to be sent to outside consultants for paleontological, palynological, thin-section petrography, x-ray diffraction, and bulk geochemical analysis.

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