

## Section Description

E-E' is a dip-oriented section running along the eastern part of the State. Originating at a water well in southern Chesterfield County, the section runs in a southeasterly direction passing through Darlington, Lee, Florence, and Williamsburg Counties, and terminating at a test hole in southern Georgetown County. Two core holes and seven water wells were used to construct the section. One inch on the vertical scale is equivalent to 200 feet of depth. The distance, in miles, between two adjacent wells is provided on the section.

The northernmost well (**CTF-88**) is a public supply well drilled in 2001 for Alligator Rural Water Company in Chesterfield County. Drilled just southeast of the Town of McBee, the well is completed in both the Crouch Branch and McQueen Branch aquifers. An aquifer test of the well yielded a transmissivity of 6,600 ft<sup>2</sup>/d (feet squared per day) pumping at a rate of 600 gpm (gallons per minute). Moving downdip, well **DAR-226** is a public supply well drilled in northern Darlington County for Darlington County Water and Sewer. The well was drilled in 1989 and is completed solely in the McQueen Branch aquifer. An aquifer test of the well produced a transmissivity of 9,100 ft<sup>2</sup>/d pumping at a rate of 900 gpm.

Well **LEE-75** is a core hole drilled by the U.S. Geological Survey (USGS) and the South Carolina Department of Natural Resources (SCDNR) in 1996 at Lee State Park in eastern Lee County. After reaching bedrock, the borehole was backfilled and completed as a monitoring well in the McQueen Branch aquifer. In 2012, SCDNR returned to the site and constructed three additional monitoring wells, one in the upper part of the McQueen Branch aquifer and two in the Crouch Branch aquifer. Water levels of all the wells are currently monitored by SCDNR. A pumping test made of the Crouch Branch aquifer resulted in a transmissivity of 4,500 ft<sup>2</sup>/d pumping at a rate of 200 gpm.

Well **LEE-72** is a public supply well drilled in 1991 in the eastern part of Lee County for the Cassatt Water Company. Completed in the McQueen Branch aquifer, an aquifer test yielded a transmissivity of 3,200 ft<sup>2</sup>/d pumping at a rate of 403 gpm. **LEE-19** is a public supply well drilled in 1972 for the Town of Lynchburg in the southern part of Lee County. Screened in the McQueen Branch aquifer, an aquifer test of the well yielded a transmissivity of 2,900 ft<sup>2</sup>/d pumping at a rate of 798 gpm.

Continuing downdip along the section line, well **FLO-274** is a core hole drilled by the USGS in 1990 at the Lake City Municipal Airport (also known as CJ Evans Field) in the south-central part of Florence County ([USGS Open File 9458](#)). Two wells were completed at the site by the USGS—one in the Crouch Branch aquifer and one in the McQueen Branch aquifer. Both wells are currently monitored by SCDNR for water levels. In 2019, SCDNR completed a shallow, water-table well in the surficial aquifer at the site and monitors water levels for drought assessment purposes.

Well **WIL-211** is a public supply well drilled in 2002 for Williamsburg County Water and Sewer southwest of the Town of Stuckey in the southern part of Williamsburg County. Completed in both the McQueen Branch and Charleston aquifers, an aquifer test yielded a transmissivity of 8,300 ft<sup>2</sup>/d pumping at a rate of 700 gpm. Well **GEO-90** is a public supply well drilled in 1974 for the Town of Andrews in northern Georgetown County. Completed solely in the McQueen Branch aquifer, an aquifer test produced a transmissivity of 1,740 ft<sup>2</sup>/d pumping at a rate of 351 gpm. Well **GEO-88** was a test hole drilled by the U.S. Army Corps of Engineers for the South Carolina Water Resources Commission in 1979 for the purpose of collecting geologic and hydrologic data in a capacity-use investigation. The borehole was drilled at the Estherville Plantation in southern Georgetown County.

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