

Table 3-8. Hydrostratigraphic units in the vicinity of SRP<sup>a</sup>

Geologic unit	Geologic age	Outcrop	Description	Water yield	Thickness (m)
Alluvium <sup>b</sup>	Recent epoch	River and creek bottoms	Fine to coarse sand, silt, and clay	Very little	0 to 9.5
Terrace deposits <sup>b</sup>	Pleistocene epoch	In flood plains and terraces of stream valleys	Tan to gray sand, clay, silt, and gravel on higher terraces	Moderate to none	0 to 9.5
Alluvium <sup>b</sup>	Pliocene epoch	Surface of Aiken Plateau	Gravel and sandy clay	Little or none	0 to 6
Hawthorn <sup>b</sup>	Miocene epoch	Large part of ground surface	Tan, red, and purple sandy clay with numerous clastic dikes	Little or none	0 to 25
Barnwell <sup>b</sup>	Eocene epoch	Large part of ground surface near streams	Red, brown, yellow, and buff, fine to coarse sand and sandy clay	Limited but sufficient for domestic use	0 to 30
McBean and Congaree <sup>b</sup>	Eocene epoch	In banks of larger streams	Yellow-brown to green, fine to coarse, glauconite quartz sand, intercalated with green, red, yellow, and tan clay, sandy marl, and lenses of siliceous limestone	Moderate to large	30 to 75
Ellenton <sup>b</sup>	Upper Cretaceous epoch	None on SRP	Dark gray to black sandy lignitic micaceous clay containing disseminate crystalline gypsum and coarse quartz sand	Moderate to large; higher sulfate and iron than water from other formations	1 to 30
Tuscaloosa <sup>b</sup>	Upper Cretaceous epoch	None on SRP	Tan, buff, red, and white; crossbedded, micaceous quartzitic and arkosic sand and gravel imbedded with red, brown, and purple clay and white kaolin	Large, well production up to 7.6 m <sup>3</sup> /min; soft; low in total solids	170 to 250

Table 3-8. Hydrostratigraphic units in the vicinity of SRP<sup>a</sup> (continued)

Geologic unit	Geologic age	Outcrop	Description	Water yield	Thickness (m)
Newark Series "Red Beds" <sup>c</sup>	Triassic period	None on SRP	Dark-brown and brick-red sandstone, siltstone, and claystone containing gray calcareous patches. Fanglomerates near border.	Very little	>900
Basement rocks of the Slate Belt and Charlotte group <sup>d</sup>	Precambrian and Paleozoic eras	None on SRP	Hornblende gneiss, chlorite-hornblende schist, lesser amounts of quartzite. Covered by saprolite layer derived from basement rock.	Very little	Many thousands

<sup>a</sup>Adapted from Siple (1967); see Table F-1 for a more detailed summary of properties of the hydrostratigraphic units.

<sup>b</sup>Coastal-plain sediments.

<sup>c</sup>Dunbarton Basin sediments.

<sup>d</sup>Crystalline and metamorphic rock.