

11.0 SUMMARY

The WPPDC regional water supply planning group is made up of ten (10) local governments and two (2) service authorities. Participating jurisdictions include the counties of Henry, Patrick, and Pittsylvania; the cities of Danville and Martinsville; and the towns of Chatham, Gretna, Hurt, Ridgeway, and Stuart. The Henry County Public Service Authority and Pittsylvania County Public Service Authority also participate.

The Plan complies with the State Water Control Board's regulation 9 VAC 25-780, Local and Regional Water Supply Planning, and is a functional plan supporting sustainable growth and economic development. Local governments participating in the regional Plan notified VDEQ of their intent to participate in the Plan before the November 2, 2008 deadline. The Plan was submitted to the VDEQ prior to the November 2, 2011 deadline. A public hearing was held by each participating jurisdiction and the local governments passed resolutions approving the Plan and adopting other policies or ordinances that were developed during the planning process.

The WPPDC region is located in the south-central portion of Virginia in the Blue Ridge Mountains and western piedmont region. According to the U.S. Census Bureau, the total population for the region in 2000 was estimated to be 206,909. The region is served by both surface water and groundwater sources. The major streams utilized in the region as water sources include the Dan River, Upper Smith River, Cherrystone Creek, South Mayo River, and Leatherwood Creek. The major reservoirs in the region utilized as water sources include Beaver Creek Reservoir, Georges Creek Reservoir, and Philpott Reservoir. Much of the region is also dependent upon groundwater as well as several springs.

Overall the region is considered to be a water rich region. Based on projected demands and the total existing public community water system capacities for each locality, the WPPDC region is projected to experience a water supply surplus of approximately 15.2 MGD by the year 2060. However, Henry County and the Town of Gretna are expected to experience a deficit by 2060. Henry County is in the process of requesting a permit capacity increase which will eliminate their deficit and the Town of Gretna is currently working on a new intake on Whitethorn Creek to supplement the existing Georges Creek Reservoir. It should be noted that there is some

uncertainty associated with any point estimate of future deficit (or surplus) 50 years out into the future. This surplus is based on current limiting capacities and total demands (excluding sales to jurisdictions). The majority of this surplus is due to the large surplus from the City of Martinsville.

Additional private demand (from groundwater and surface water sources) of approximately 3.0 MGD may be needed to supply residential and agricultural users outside the service areas of the public community water systems. It is important to note should any of the private community water systems become part of a public community water system; this may increase the future public community water system deficit projections.