

## **CHAPTER 9**

### **PUBLIC UTILITIES**

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The Broadneck Area is served by the Broadneck Sewer Service Area (SSA) for sewer and by the Broadneck and Glen Burnie Low 220 Water Pressure Zone for public water.

#### **Water Service:**

The County operates and maintains 15 wells in four well fields within the 220 pressure zone that can produce 12.3 million gallons per day (mgd). The 220 pressure zone is divided into the Glen Burnie Low Zone and the Broadneck Pressure Zone at approximately Dividing Creek. There are two water treatment plants (WTP) serving the Broadneck 220 Pressure Zone; the Arnold WTP the Amberly WTP. The Arnold WTP located along Jones Station Road has five groundwater wells capable of producing over 9 mgd and the treatment plant was recently expanded from 3 to 8 mgd with provisions for expansion to an ultimate capacity of 16 mgd. With current water storage capacity of 4.5 mgd and the availability of receiving water supply from the Glen Burnie Low Zone, the Broadneck small planing area is amply supplied with public water to meet current average daily demands of 2.8 mgd and those in the near future. The community of Cape St. Claire has expressed interest in petitioning for public water. Preliminary investigations have indicated a need for a new one million gallon elevated storage tank to serve the community. At this time, discussions with the community and County are continuing and a valid petition must be received from the community to pursue extension of public water through the petition process.

#### **Sewer Service:**

The Broadneck Area is served by the Broadneck Sewer Service Area (SSA), which utilizes the Broadneck Water Reclamation Facility (WRF) for treatment of wastewater flows. This facility has a rated capacity of 6.0 mgd and annual average daily flows of 4.9 mgd. The facility uses extended aeration in a modified oxidation ditch to remove nitrates, chemicals and phosphorous. The collection system serving the area consists of both gravity collectors and force main piping. The current Master Plan for Water and Sewerage indicates that the Broadneck SAA will have sufficient capacity to accommodate future demands generated by development in the Broadneck Area.

#### **Recommendation:**

Update the water and sewer maps to reflect the changes made in the Proposed Land Use Map shown in this plan.

## Sewer map 8

## Water map 9