

Public Utilities

Existing Conditions

Water Service:

The County operates and maintains one well field within the Crofton Small Area. This is located at the Crofton Meadows Water Treatment Plant (WTP). Production within the Crofton WSA occurs solely at the Crofton Meadows WTP where approximately 9.2 mgd (million gallons per day) of potable water is produced and distributed. Of the total production, approximately half is transmitted via a high lift booster pumping station into a higher pressure zone, Kings Heights/Odenton (330 Pressure Zone), which is located to the northwest. The remaining production is distributed throughout the Crofton 290 Zone which serves the Crofton Small Area.

Sewer Service:

The Crofton small planning area is served by the Patuxent Sewer Service Area which utilizes the Patuxent Water Reclamation Facility (WRF) for treatment of wastewater flows. This facility is ten years old, has a rated capacity of 6.0 mgd and annual average daily flows of 4.66 mgd. The facility uses advanced wastewater treatment for phosphorous removal and nitrification/denitrification. The Patuxent WRF is currently using a barrier oxidation ditch to achieve advanced sewerage treatment. The collection system serving the area consists of both gravity collectors and force main piping.

Assets and Issues

Water Service: Capital Projects

There are three major capital projects currently programmed to enhance the Crofton WSA. Project No. W7483 is a recently completed project to construct a new 5 mgd water treatment plant furnished with new wells, raw water lines and two 1.5 million gallon ground storage tanks. Project No. W7656 is a recently completed project to construct a water transmission main from Waugh Chapel Road to Chapelgate to hydraulically link the 290 and 330 pressure zones. This enables the County to transmit treated water from the 290 pressure zone, where supply is abundant, to the 330 zone. Project No. W7786 is an out-year project to expand the treatment capacity of the Crofton Meadows WTP from 5 mgd to 10 mgd by constructing additional sedimentation basins, filters, and raw water wells.

Sewer Service: Capital Projects

There are two capital projects currently programmed to upgrade the Patuxent SSA. Project No. S7581 is a three phase project to upgrade the WRF through construction of a new blower building and diffuser system in the west oxidation ditch; removal of draft tube aerators and construction of additional diffusers and mixers; and necessary upgrades to provide for nitrogen

