

# Brunswick-Glynn County Joint Water and Sewer Commission 20-Year Water and Sewer Master Plan

## Brunswick-Glynn County Joint Water and Sewer Commission Glynn County, Georgia

### Services Rendered

- Prepared and Calibrated a Water Distribution System Model
- Prepared a Master Plan with Evaluation of Existing Facilities and Systems for both the Water System and Sewer System
- Determined Existing System Water Losses
- Determined Projected Water Demands and Sewer Rates for Future 20-Year Service Area
- Prepared Capital Improvement Plans
- Prepared and Calibrated a Model of the Approximately 30 Pump Stations, Associated Force mains, and Incorporated Gravity Sewers
- Determined Inflow/Infiltration into the Sewer System per Sub-Basin



### Project Summary

ATM is currently completing a 20 Year Water and Sewer Master Plan in Glynn County for the recently formed Brunswick-Glynn County Joint Water and Sewer Commission (JWSC). The analysis covers the north and south mainland of the County and the City of Brunswick. This project is the first inventory and planning effort for the newly formed JWSC which merged the former Glynn County and City of Brunswick water and sewer systems.



Project scope for the water system includes preparation and calibration of a water distribution system model in MWHSoft InfoWater for the existing water systems and proposed system upgrades including new distribution lines, new wells and treatment facilities and potential interconnections between the former County and City water systems to serve the future 20 year service area; preparation of master plan with evaluation of existing facilities and system; determination of existing water losses in system; determination of projected water demands for future 20-year service area; preparation of capital improvement plan including cost estimates and schedule to correct deficiencies in existing system and meet future water demands. In total, the former County and City water systems consist of approximately 270 miles of water distribution mains.

Project scope for the sewer system includes preparation of a model of the approximately 30 pump stations, associated force mains, and incorporated gravity sewers in MWHSoft InfoSWMM for the existing system and the proposed system upgrades for future 20 year service area; preparation of master plan with evaluation of existing facilities and system; determination and location of total quantity of inflow/infiltration into the system per sub-basin; determination of projected sewer generation rates for future 20 year service area; preparation of capital improvement plan including cost estimates and schedule to correct deficiencies in existing system particularly sewers and manholes which need to be rehabilitated and upgrades to system required to meet needs of future service area.

The master plan also includes an analysis of funding options, staffing evaluation, and an update to the previously prepared St. Simons Island 20 Year Water and Sewer Master Plan. The scope of the Master Plan has also been expanded to include a tapping fee and rate fee study and reuse feasibility studies.