

5. Summary of Recommended Improvements

Table 5-1 summarizes the water and wastewater improvements that were identified in Section 4. Planning-level cost estimates were developed for this final list of projects, which were carried forward and prioritized as described in the following sections.

Table 5-1: Summary of Recommended Improvements and Estimated Cost (2020 Dollars)
2020 Service Delivery Plan Update – Infrastructure Element

Project Name	Planning-Level Estimated Cost (2020 Dollars)
Raw Water	
Middle Oconee River Raw Water Pump Station	\$460,000
North Oconee River Raw Water Pump Station	\$800,000
Additional Storage	\$15,000,000
Water Supply Resiliency and Reliability	\$45,000,000
<i>Raw Water Subtotal</i>	<i>\$61,260,000</i>
Drinking Water	
Future Drinking Water Regulations	\$ 1,000,000
Atlanta Highway Tank and Booster Pump Station	\$ 8,000,000
Small Diameter Water Main Replacement	\$ 15,000,000
Upgrade Aging Water Mains	\$ 20,000,000
Water Main Connection Reliability for Improved Water Quality and Fire Protection	\$ 8,500,000
Water Main Transmission Redundancy	\$ 4,000,000
J. G. Beacham Water Treatment Plant Solids Handling	\$ 20,000,000
<i>Drinking Water Subtotal</i>	<i>\$76,500,000</i>
Wastewater System	
North Oconee WRF - Aeration Basins	\$ 800,000
North Oconee WRF - Aeration Basins Small Blower	\$ 1,100,000
North Oconee WRF – Preliminary Treatment	\$ 1,200,000
North Oconee WRF - Phosphorus Polishing	\$ 11,100,000
North Oconee WRF - Thermal Dryer	\$ 12,000,000
North Oconee WRF - Biosolids Upgrades	\$ 35,000,000
Middle Oconee WRF - Enhanced Biological Phosphorus Removal Basin Cover	\$ 800,000
Middle Oconee WRF – Preliminary Treatment	\$ 500,000
Middle Oconee WRF - Phosphorus Polishing	\$ 14,000,000

Table 5-1: Summary of Recommended Improvements and Estimated Cost (2020 Dollars)

2020 Service Delivery Plan Update – Infrastructure Element

Project Name	Planning-Level Estimated Cost (2020 Dollars)
Middle Oconee WRF Influent Pumps	\$ 2,200,000
Middle Oconee WRF Electrical Building	\$ 6,200,000
Middle Oconee WRF Operations Building	\$ 2,000,000
Cedar Creek WRF – Ultraviolet Disinfection	\$ 600,000
Cedar Creek WRF - Phosphorus Polishing	\$ 6,300,000
Cedar Creek WRF Influent Pumps	\$ 1,200,000
Cedar Creek WRF Emergency Generator	\$ 6,000,000
Targeted Sanitary Sewer Flow Monitoring	\$ 500,000
Prioritized Sewer Rehabilitation and Replacement	\$ 8,000,000
Long-term Sanitary Sewer Evaluation Survey (SSES) and Rehabilitation Program	\$ 500,000
Tanyard Branch Interceptor Improvements	\$ 10,300,000
Upper North Oconee West Trunk Improvements	\$ 2,900,000
Upper North Oconee Interceptor – Phase 2B	\$ 11,500,000
Upper North Oconee Interceptor – Phase 2C	\$ 8,400,000
Sanford Stadium Sanitary Sewer Interceptor Improvements Phase 1	\$ 5,800,000
Voyles Road Sanitary Sewer Upgrade	\$ 3,900,000
Brooklyn Creek Interceptor Improvements	\$ 11,600,000
Middle Oconee East Trunk Improvements Phase 1	\$ 13,000,000
Middle Oconee West Trunk Improvements Phase 1	\$ 12,500,000
Middle Oconee East Mill Run Sewer Replacement	\$ 1,000,000
Turkey Creek Interceptor Improvements	\$ 1,500,000
Hampton Park Gravity Sewer Interceptor	\$ 1,500,000
Kingswood Subdivision Gravity Sewer Collector Improvements	\$ 1,100,000
McNutt Creek Sewer Interceptor Improvements Phase 1	\$ 14,000,000
Mitchell Bridge Sewer Interceptor Improvements	\$ 6,000,000
Cedar Creek Interceptor Improvements - Phase 1	\$ 2,500,000
Trail Creek East/West Extension – Project 3 (TCE-3)	\$ 1,200,000
Trail Creek East/West Extension – Project 4 (TCE-2, TCE-4)	\$ 1,400,000
Upper North Oconee/North Oconee River East Extension (UNO-8)	\$ 750,000
Bear Creek Gravity Sewer Extension (BC-2)	\$ 1,500,000
Turkey Creek Gravity Sewer Extension (TC-2)	\$ 1,700,000

Table 5-1: Summary of Recommended Improvements and Estimated Cost (2020 Dollars)
2020 Service Delivery Plan Update – Infrastructure Element

Project Name	Planning-Level Estimated Cost (2020 Dollars)
Lower Middle Oconee Gravity Sewer Extension (LMO-8)	\$ 2,000,000
Alternative Sewer Solutions	\$ 5,000,000
<i>Wastewater System Subtotal</i>	\$231,050,000
<i>Recycled Water</i>	
Athena Industrial Park Recycled Water Transmission Line	\$ 14,000,000
UGA Recycled Water Transmission Line	\$ 1,600,000
North Oconee WRF Recycled Water Facility	\$ 3,400,000
<i>Water Recycling Subtotal</i>	\$19,000,000
<i>Utility-wide</i>	
Combined Meter Management/Water and Sewer Facility	\$ 9,000,000
Billing System Project	\$ 400,000
Alternate Energy	\$ 2,790,000
<i>Utility-wide Subtotal</i>	\$12,190,000
Total	\$400,000,000

