

Lehigh County Authority – Water & Sewer Infrastructure Needs

10-Year Outlook – 2021-2031

Lehigh County Authority (LCA) is a regional water and sewer authority providing service throughout Lehigh County in eastern Pennsylvania. Our system provides service to approximately 200,000 people in the City of Allentown, PA, and surrounding neighborhoods. Like all utilities across the nation, LCA is challenged by aging infrastructure, climate change, and financial constraints. Our region is growing and the need for utility services is growing while we address these challenges. The projects outlined below represent the most critical large projects that will be necessary to provide continued high-quality service to LCA's existing customers and meet the capacity requirements for growth, including new industrial customers that fuel our region's economy.

Water Projects

Project	Brief Description	Cost Estimate
Water Supply & Pumping	Expansion of capacity to supply water to a growing customer base, including development of new supply sources and construction of pumping facilities.	\$7 Million
Water Storage Expansion	Increasing water storage capacity to ensure proper fire protection and system resiliency.	\$4 Million
Filter Replacements & Upgrades	Replacement of aging water filtration components to improve reliability and output of safe drinking water at the Allentown water treatment plant, which serves 200,000 people in our region.	\$12 Million
Water Intake Systems Upgrade	Rehabilitation and replacement of critical water intake structures that draw water from the Little Lehigh Creek and the Lehigh River, two primary water sources for the region.	\$5 Million
Water Main Replacements	Replacement of aging water mains, especially within the City of Allentown where large portions of the system's water mains are reaching their 100-year life expectancy.	\$40 Million
Total		\$68 Million

Wastewater Projects

Project	Brief Description	Cost Estimate
Trexlerstown Interceptor Upgrade Project	Address hydraulic capacity requirements in a restricted area of the regional system that must be addressed prior to new industrial customer connections.	\$4 Million
WWTP Pumping & Electrical Upgrades	Replacing and upgrading aging pumping and electrical components at the regional wastewater treatment plant in Allentown that serves 15 municipalities.	\$8 Million
WWTP Wet-Weather Capacity Expansion	Addition of flow equalization storage and other facilities to accommodate increasing wet-weather sewer flows in the region, due to aging infrastructure and climate change.	\$32 Million
WWTP Dry-Weather Capacity Expansion	Addition of new wastewater treatment processes to accommodate regional needs for economic growth, including industrial expansion and increased regulatory permit requirements.	\$40 Million
Regional Interceptor & Pump Station Upgrades	Expansion of regional sewer interceptors and pump stations to transport increased flows to the regional wastewater treatment plant, as a result of economic growth and climate change impacts.	\$60 Million
Total		\$144 Million