



James E. Quarles Reservoir Cleaning and Improvements Project

PROJECT DESCRIPTION:

This project will remove accumulated sediment from the raw water reservoir, construct a permanent access ramp to the bottom of the reservoir, repair areas of the concrete liner along the shore where erosion undercutting has occurred, replace 50-70 year old bridges and sluice gates on the five structures in the reservoir, and modify the 48-inch bypass piping around the Plant No.2 flow splitter box.



Quarles Water Treatment Plant Reservoir
Empty for Cleaning

PROJECT SCOPE:

Reservoir Cleaning/ Sediment Removal

The main goal of the project is to remove about **30,000 cubic yards** of sediment that has built up in the reservoir over time. This reservoir plays a key role in improving water quality before it is treated. It helps by letting larger particles in river water settle out when the water is muddy (high turbidity), which makes treatment easier and less expensive. It also provides short-term water storage when river pumps are turned off for maintenance or emergencies.

Structural Replacements

There are **five key structures** in the reservoir—two inlets and three outlets—that control how water flows in and out. Each structure has a small bridge for access and gates that can be opened or closed as needed. These gates are especially important during maintenance, as they help isolate different parts of the piping system. The bridges

and gates are old and need to be replaced to work safely and reliably.

Reservoir Operational Improvements

To make the reservoir easier to maintain and operate, several upgrades will be made:

- A **permanent access ramp** will be built to allow easier equipment access to the reservoir floor
- A **new drain pipe** will be installed so the reservoir can be emptied directly—without sending the water through the treatment plant
- **Additional bypass piping** will be added to increase flexibility and reliability when the reservoir is offline for maintenance

These improvements will make it easier to manage the reservoir in the future while keeping the water treatment process running smoothly.

TENTATIVE CONSTRUCTION SCHEDULE:

Construction Begins: June 2025

Construction Complete: October 2026

BENEFITS TO THE COMMUNITY

- Improved reliability, water quality, and safety.

For more information, please contact:

Cobb County-Marietta Water Authority

Phone: 770-514-5300

Web: www.ccmwa.org/contact-us

Please note that Cobb County-Marietta Water Authority (CCMWA) is a separate entity from Cobb County Water System. CCMWA is a regional water wholesaler and does not sell water to residential customers.