



Engineering and Public Works Department
155 Heritage Way
Juneau, Alaska 99801
Telephone: 586-0800 Facsimile: 586-4565

DATE: 3/17/2025

TO: Alicia Hughes-Skandijs, Chair
Public Works and Facilities Committee

THROUGH: Denise Koch, Engineering and Public Works Director

FROM: Brian McGuire, Utilities Superintendent
Abner Miller, Project Manager

SUBJECT: MWWTP SCADA Upgrade Project Update

The project to replace and modernize the Mendenhall Wastewater Treatment Plant's Supervisory Control and Data Acquisition (SCADA) system is substantially complete. A SCADA system is a computer-based system used for monitoring and controlling industrial equipment and processes, collecting and analyzing real-time data to optimize performance and ensure safety. The system that we replaced was 1980's era equipment that had limited OEM¹ support and was not meeting our needs for compliance and current process control standards. All new project equipment/instruments are in-place, and the new Evoqua software is running the plant.

The remaining punch list work items are expected to be completed by the end of March. Much of the remaining work involves validating instrument performance for usage to improve plant operations and compliance performance. Operations staff report they like using the new system.

The construction contract will be amended to add a year of technical service assistance. The total cost of the construction contract, including service amendment, is expected to come in under the contract's Guaranteed Maximum Price (GMP) of \$ 3,873,144.

This marks the completion of a major improvement for the community's largest wastewater treatment plant. This project put new hardware and software in the Mendenhall plant that allows the operators access to a modern, redundant control system that should help improve plant performance and efficiency for years to come.

¹ OEM = Original Equipment Manufacturer