

January 17, 2025

**South Haven Area Water-Sewer Authority  
Wastewater Treatment Plant Improvements, CWSRF #5804-01  
Project Update**

**Project Background**

The South Haven Area Sewer-Water Authority (SHAWSA) is currently working with F&V Construction on improvements to the Wastewater Treatment Plant (WWTP). The project is being completed to replace critical assets identified as part of the WWTP's Asset Management Program (AMP) to maintain reliable operation and reduce operating costs.

The project scope includes the following major work items:

- Aeration system improvements including:
  - High efficiency turbo blower
  - New aeration piping
  - Control System to improve treatment and control energy cost
- New clarifier flow split structure
- New Ultraviolet (UV) disinfection system
  - Reduced operating cost and chemical usage
- Demolition of the existing chlorine contact tank and chemical feed building
- Replacement of the digester boiler

The project is being financed by the Clean Water State Revolving Fund (CWSRF) and received a \$3.64 million grant. Construction is scheduled to be complete in Summer 2025.

**Progress to Date:**

**Aeration System:**

- Demolition of one existing blower.
- Installation of one new turbo blower.
- Installation of new blower piping and valves.
- Replaced Blower Building doors, lighting, and exhaust fans.

**Clarifier Flow Split Structure:**

- The structure has been completed and is in operation.
- Process piping connections to existing Clarifiers have been completed and Clarifiers have resumed operation.
- Process piping connections for future Clarifiers are nearly complete.

**UV Structure:**

- The structure has been completed.
- The UV equipment is installed and in operation.
- The chlorine-based disinfection system has been taken offline.



*New Turbo Blower*



*Clarifier Flow Splitter in Operation*

**Digester Boiler:**

- System is on-line, providing heat to the digesters and Administration Building

**Upcoming Work:**

**Aeration System:**

- Control panel and instruments installation and start-up.
- Turbo blower start-up scheduled for February.

**UV Structure:**

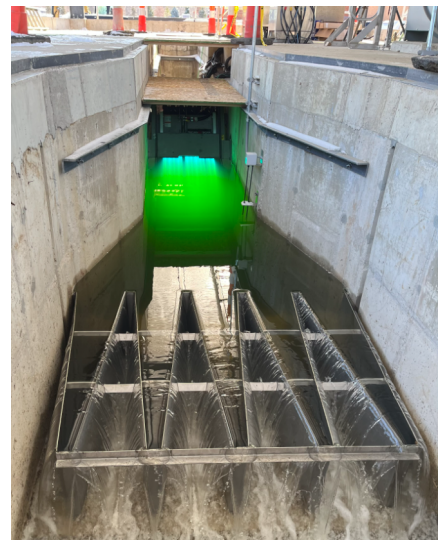
- Complete fiber connection to WWTP Supervisory Control and Data Acquisition (SCADA) system
- Install new effluent sampler
- Demolish existing chlorine contact tank and chemical feed building



*Digester Boilers*



*UV Structure*



*UV System in Operation*



*Chemical Feed Building to be Demolished*



*Chlorine Contact Tank to be Demolished*