



HALEY WARD

ENGINEERING | ENVIRONMENTAL | SURVEYING

Water, Wastewater Treatment & Conveyance

Proper design and maintenance of water and wastewater systems is crucial. It is important that pump stations and pipelines be evaluated regularly to ensure they are working correctly. A system that is not functioning correctly could have excessive leakage or corrosion.

Municipal water and wastewater is generated from residences, businesses, industries, institutions, or any other wastewater producer. Depending on the needs of the municipality, municipal water and wastewater treatment systems can vary in size or type and are complex in design. As systems age and demands increase, an existing treatment plant must be redesigned to fill those needs. Haley Ward provides design services and is highly experienced with the process involved with upgrading facilities. Recent projects include a pump station upgrade for the City of Bangor and a water line replacement for Old Town Water District.

Stormwater runoff may still be an issue for some older municipal wastewater systems as excessive stormwater inflow may cause wastewater conveyance systems to overflow and contaminate surrounding bodies of water. Haley Ward is skilled in evaluating the condition of existing systems, as well as designing system separation (to separate stormwater and wastewater systems) and the reconstruction of underground utilities and pump stations.

Following are our municipal wastewater treatment and conveyance capabilities.

- Conceptual Design and Feasibility Studies
- Facilities Planning
- Permitting/Licensing/Regulatory Compliance
- Hydraulic Modeling
- System Planning & Design
- Residuals Management
- Computer Analysis and Modeling
- System & Upgrade Design
- Odor Control
- Process Control & Instrumentation
- Consultation on Wastewater Pre-treatment
- I/I Analysis - Rehabilitation
- Collection Sewers
- Construction/Construction Management
- Interceptors & Force Mains
- System Startup & Troubleshooting
- Inspection & Testing
- Combined Sewer System Evaluations/Rehabilitation
- Treatment Plant Energy Efficiency Evaluations
- Pre-Treatment Assistance for Industrial/Commercial System Users

REPRESENTATIVE CLIENTS

- University of Maine
- Town of Milford
- Town of Veazie
- Town of Bar Harbor
- Old Town Water District
- Town of Castine
- Cherryfield Foods
- City of Auburn
- Veazie Sewer District
- J. Wyman & Son
- Municipal Review Committee
- Mount Desert