

## Wastewater Engineering

### Award-Winning Results

Gannett Fleming has planned, designed, and managed the construction and operation of hundreds of wastewater plants and pump stations, in addition to thousands of miles of sewer systems. A premier engineering consultant, we are recognized for award-winning service on wastewater assignments throughout the U.S.

- **2016 - Platinum Award—American Council of Engineering Companies of New York, Engineering Excellence Awards;** Village of Northport Wastewater Treatment Plant Phase II Upgrades; Northport, New York
- **2014 - Platinum Award—American Council of Engineering Companies of New York, Engineering Excellence Awards;** Grass Island Wastewater Treatment Plant Upgrades; Greenwich, Connecticut
- **2010 - Pennsylvania Governor's Award for Environmental Excellence;** Wastewater Treatment Plant Water Reuse, Penn National Race Course; Grantville, Pennsylvania

### Cutting-Edge Influence

We use building information modeling to enhance client communication and incorporate nutrient reduction to improve wastewater treatment. Gannett Fleming and the University of Wisconsin-Milwaukee are also developing an emerging technology that involves generating electricity from wastewater to reduce desalination energy costs.

### Facility Managers

Gannett Fleming employs licensed wastewater treatment plant operators with facility management experience. We assist clients with process optimization, chemical dosage requirements for phosphorus precipitation or solids conditioning prior to thickening or dewatering, and laboratory accreditation.



### Industry Experts

We design sustainable wastewater facilities ranging in size from 0.1 mgd to 400 mgd. Our full-service support includes financial evaluations, hydraulic computer modeling, value engineering, permit renewal applications, emergency response planning, and industrial pretreatment programs.

Well-respected for effective project management and delivery, we recognize that facility construction, commissioning, and operation are complex, time-sensitive, and cost-critical engineering phases. We have completed hundreds of wastewater projects under diverse site conditions. Our construction managers deliver projects on time with minimal changes while maintaining a team approach.



## Integrated Approach

Gannett Fleming is committed to providing integrated water resource services. Our expertise ranges from planning, supply development, extraction and impoundment, to facility and infrastructure design, reclaimed water, and wastewater reuse.

## Reusing Wastewater

We identify ways to reuse and reduce water use and limit wastewater discharge. Depending on the process, treatment alternatives can be developed and implemented to recycle wastewater within a facility, inject to an aquifer, or discharge to high-quality water. Wastewater reuse improves regional groundwater table levels and base flows and helps clients to achieve temperature mitigation goals.

## Managing Watersheds

Wastewater treatment systems can have a definitive impact on the ecology of a watershed. Gannett Fleming focuses on ecologically engineered and managed solutions to water and related land resource issues. We use hydrologic and water



quality models and geographic information systems to assess pollution impacts and the effects of mitigation measures.

## Monitoring Quality

We also conduct large-scale watershed monitoring programs to assess and evaluate water quality. Identifying sources of degradation is one of our strategies when working with clients to restore and protect sensitive aquatic life.

## Reducing Metals

Gannett Fleming is using an innovative organic cell reduction method to reduce metals in wastewater through constructed wetlands. This water pollution control technique enables mining and coal-fired power plants to efficiently treat waste streams with multiple contaminants in an efficient and environmentally sensitive manner.



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