

**PARSONS**

# Wastewater



When the issue is wastewater, the solution is Parsons



Aging facilities, stricter regulations, rising costs, and increasing public concerns have made effective wastewater collection and treatment a real challenge. Even modern secondary treatment plants may not comply with some of the emerging water standards.

## Technical Expertise

When it comes to wastewater facilities, Parsons' practical experience and technical knowledge are extensive. Our designs feature new and established technologies in wastewater collection; ozone, chlorine, and chloramines disinfection; chemical treatment; sedimentation; biological treatment; membrane technology; filtration; mixing and flocculation; and residuals/biosolids management. Whether you need conventional activated sludge or membrane bioreactors, dual media filtration or cloth media filtration, Parsons will deliver the most cost-effective, long-term technical solution.

Computerized process modeling and advanced hydraulic modeling are among the tools applied to your project design for enhanced decision making and control. Parsons offers extensive experience in biosolids management including solids thickening, advanced digestion technologies, alkaline stabilization, dewatering, and beneficial use programs. Our professionals can help your wastewater facility comply with government regulations by eliminating combined sewer overflows and sanitary sewer overflows.

Whether your project is self-regulated or compliance-driven, Parsons' comprehensive wastewater treatment expertise will help you better manage assets, meet government regulations, address public concerns, and plan effectively for tomorrow's challenges.



## Comprehensive Services

To meet today's wastewater management challenges, you need a full-service partner with proven expertise in virtually all advanced wastewater treatment processes. Parsons is one of the industry's only fully qualified firms providing comprehensive services for governments and industries in the field of advanced wastewater treatment. Parsons delivers specially tailored solutions that maximize your financial investment and address the most complex technical issues.

For nearly 70 years, Parsons has helped public utilities and other customers plan, design, and construct complex and cost-effective wastewater collection and treatment systems. Employing advanced biological and physical/chemical treatment processes for nutrient removal, Parsons' designs have ranged from large treatment plants at 550 mgd to small facilities of less than 1.0 mgd. Parsons can customize a technical solution that effectively addresses point discharge water quality issues, reuse for turf and crop irrigation, industrial wastewater contributions, odor control, site restrictions, and other issues.

To help manage your facility more effectively, Parsons offers services such as asset management, business consulting, program and construction management, security considerations, equipment selection, community relations, operator training, and regulatory compliance support.



## Parsons' Capabilities

- Biological nutrient removal
- Combined sewer overflows (CSOs)
- Conventional and advanced wastewater treatment
- Membrane bioreactors
- Residuals/biosolids management
- Sanitary sewer overflows (SSOs)
- UV disinfection
- Wastewater collection systems
- Water reclamation



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4701 Hedgemore Drive  
Charlotte, NC 28209  
Phone: +1 704.558.4288

[www.parsons.com](http://www.parsons.com)