

# William C. "Bill" Rackley, PE

Principal-In-Charge  
Utilities Infrastructure



## EDUCATION

B.S., Mechanical Engineering  
Mississippi State University, 1986

Joined Firm in 2016

Years of Experience: 37

## REGISTRATIONS

Licensed Professional Engineer:  
Texas No. 74694, Mississippi No.  
14924

## ASSOCIATIONS

American Water Works  
Association

Water Environment Association  
of Texas

Water Environment Federation

American Society of Mechanical  
Engineers

Bill is experienced in project planning, design, construction, operation, and maintenance with a specific interest in wastewater treatment plants, pump stations and collection systems. With seven years of experience as a facility engineer for a regional wastewater authority, he understands the challenges of managing a wastewater collection and treatment system, and applies this experience on each project to provide practical and workable designs from an operator's perspective. His experience includes design and design management of wastewater treatment plants, pump stations, and rehabilitation projects. Bill is a resident of Jersey Village and serves as the Chairperson for the City's TIRZ Zone 3.

## REPRESENTATIVE PROJECTS

### Jackson County Utility Authority, MS

#### *Mississippi Gulf Coast Disaster Recover*

Project Manager and Engineer on \$90 million of wastewater infrastructure and facility improvement projects for the Jackson County Utility Authority. The focus of the infrastructure improvements was to provide for future development at higher elevations less prone to flooding. The improvements included the expansion of three wastewater treatment facilities, the addition of five new regional pumping stations, seven new lift stations, and over 250,000 linear feet of force main and gravity sewer piping systems.

- **Escatawpa Regional Wastewater Treatment Plant:** Improvements included expansion of the existing aerobic digestion system with the addition of coarse bubble air diffusion, a new digested sludge pumping system, and a new elevated sludge dewatering belt filter press and sludge loading system.
- **Gautier Regional Wastewater Treatment Plant:** Improvements included the addition of a 4-MGD final clarifier and new activated sludge pump station.
- **West Jackson County Regional Wastewater Treatment Plant:** Improvements included the conversion of a 75-acre facultative lagoon system to an aerated lagoon system to expand the treatment capacity to 5 MGD. A new lagoon effluent pump station and flow monitoring structure was installed, and an additional 110 acres of wetland treatment was added. The effluent pumping system was modified to pump to a new elevated chlorination and dechlorination system.
- Five regional pump stations were designed to convey wastewater through 190,000 feet of pressure pipe to the expanded regional pump stations. Seven new pumping lift stations and 60,000 feet of gravity sewer collection mains were added to bring sewage to the new regional pump stations.

### Trinity River Authority, TX

#### *Denton Creek Regional Wastewater System Expansion*

Project Engineer responsible for the design of the plant expansion that included new influent screening, grit removal structures, modifications to the clarifiers and aeration systems, and a new plant influent pump station with three 7,400-gpm dry pit submersible pumps. Two of the pumps were variable frequency drive-controlled while one remained constant speed. The design incorporated nutrient removal into the new and existing secondary treatment processes. The project remained within the \$40 million budget and was approximately two months ahead of schedule.