# WATER / WASTEWATER

Project Listing

## BROWN AND WILLIAMS WATER RECLAMATION FACILITY

This $18.9M project consisted of providing professional engineering to perform inspection services during the construction activities relating to the construction of a finished water pump station and wash-water handling facilities and electrical improvements to the facility. Lead based paint abatement and storm-water improvements were also performed. BREE provided an engineer to inspect construction activities, process construction documents, coordinate meetings and communication between the Engineer and the Contractor, attend construction progress meetings, and keep daily reports.

**LOCATION** Durham, North Carolina

**OWNER** City of Durham

**CLIENT** Hazen and Sawyer, PC

## NORTH DURHAM WATER RECLAMATION FACILITY

This $9.9M project consisted of providing professional engineering to perform inspection services during the activities related to the construction of a sixth aeration tank, a new ultraviolet disinfection facility, and structural repairs to the primary treatment facility. BREE provided a qualified field technician, as well as an engineer, to inspect construction activities, perform document control, manage the communication between the owner and the client, attend construction progress meetings, and keep an official record of progress.

*Photo Credit: Hazen and Sawyer*

**LOCATION** Durham, North Carolina

**OWNER** City of Durham

**CLIENT** Hazen and Sawyer, PC

## LITTLE RIVER DAM

This $275K project consisted of engineering services for the design and installation of an isolation/shut-off valve and pipeline enclosure structure at the reservoir and two backup generators for pumps located at the Brown Water Treatment Plant. The project included design, state and/or federal regulatory approvals, preparation of cost estimates for project budget, preparation of construction documents, handling by the Engineer of the bid phase and construction administrative services. BREE provided construction inspection and observation services for this project.

**LOCATION** Durham, North Carolina

**OWNER** City of Durham

**CLIENT** Hazen and Sawyer, PC

# WATER / WASTEWATER
Project Listing

BREE & Associates, Inc.

## CITY OF DURHAM TEER QUARRY RAW WATER STORAGE FACILITY

This $15.5M project converted an abandoned stone quarry in northern Durham into a raw water storage facility to improve the reliability of the water treatment system. The project work included provision of engineering services necessary to improve reliability of the water treatment system and included developing specifications for electrical power generators and in water supply pipeline improvements. BREE prepared an Engineer's Opinion of Probable Cost for the preliminary design of the Teer Quarry Raw Water Storage Facility. The costs included two pumping options: constant speed pumping and variable speed pumping.

**LOCATION** Durham, North Carolina

**OWNER** City of Durham

**CLIENT** CDM

## SLUDGE PAD CANOPY FOR NORTH DURHAM WATER RECLAMATION FACILITY

This $2M project consisted of providing professional engineering to perform inspection services during the construction activities relating to the installation of two biosolid storage pad covers and the repair of expansion material and concrete cracks. BREE provided an engineer to inspect construction activities, file construction documents, ensure accurate updates were being communicated between the Engineer and the Contractor, attend construction progress meetings, and maintain daily records.

*Photo Credit: Hazen and Sawyer*

**LOCATION** Durham, North Carolina

**OWNER** City of Durham

**CLIENT** Hazen and Sawyer, PC

## ULTRAVIOLET REPLACEMENT AT THE NORTH DURHAM RECLAMATION FACILITY

This project consisted of providing professional engineering services during the construction phase of the UV replacement. BREE provided an engineer to oversee construction activities, control construction documents, organize schedules and information relayed between the Engineer and the Contractor, attend construction progress meetings, and issue daily reports.

**LOCATION** Durham, North Carolina

**OWNER** City of Durham

**CLIENT** Hazen and Sawyer, PC

*Contact us for a copy of our complete capabilities statement, inclusive of the many projects BREE & Associates, Inc. has participated on and the respective services provided: Robert Lancaster, bree@breeassociates.com*