

# Rehabilitation of Penns Grove WWTP



## **Design Data**

### **Owner**

Penns Grove Sewerage Authority, New Jersey

### **Location**

Penns Grove, New Jersey

### **Total Project Cost**

1.4 million

### **Project Features**

(2) 30-foot diameter Steel Final Clarifiers

Mixed Liquor Pumping Station



PCI prepared the design, contract drawings and the specifications for this project which included installation of two (2) 30-foot diameter Steel Final Clarifiers with concrete pad and pile foundation, complete sludge collection and discharge mechanism with approximately 210 linear feet of 10-inch diameter Ductile Iron Mixed Liquor Pipe from existing Aeration Tank to the Final Clarifiers. and 370 Linear Feet of 10-inch Ductile Iron Final Clarifier Effluent Pipe from the proposed Final Clarifiers to the existing Chlorine Contact Tank. installation of approximately 220 Linear Feet of 6-inch Ductile Iron Return and Waste Activated Sludge Pipe from the proposed Final Clarifiers to the Sludge Control Pit and also 20-Linear Feet of 3-inch Diameter of Ductile Iron Pipe to transfer the Waste Activated Sludge to the Sludge Holding Tank. An above-ground Return Sludge Pump Station including building, pumps, controls, emergency generator, valves and appurtenances was installed along with a below-ground Mixed Liquor Pumping Station and Valve Chamber, to transfer Mixed Liquor from existing Aeration Tank to Final Clarifiers. PCI provided construction administration and supervision during the construction phase to ensure a timely and under budget completion of the project.

**PCI**  
**Professional Consulting, Inc.**

**Consulting Engineers**