Poggemeyer was the prime consultant for the design and construction of a 1.25 mgd surface water treatment plant. The project involved the replacement of an existing water plant which was more than fifty years old. Design included two 38-foot diameter solids contact type clarifiers with integral flocculators with capability for series or parallel operation; four 9 X 12-foot rapid sand filters with anthracite caps; rapid, intermediate and recarbonation mix tanks; lime feeder with day hopper and bag elevator; two (2) 900 gpm low service pumps; chemical feed equipment for lime, caustic soda, alum and potassium permanganate; chlorination equipment; three (3) sludge and backwash disposal lagoons; laboratory facilities; storage and office area; piping, pumps, instrumentation, and controls. Project was funded through the Ohio Water Development Authority.
CHEMICAL FEED

PDG worked with the Village of Swanton to evaluate alternatives to determine how to best meet the OEP A requirement of the second state of the Disinfection/Disinfection By-Products Rule, which became effective in 2013. Subsequently, it was determined that Granular Activated Carbon (GAC) Contactors would be the best solution for the Village. GAC contactors are a proven method accepted by OEP A for reducing trihalomethane (thm) levels in drinking water.

Engineers Estimate $1,907,000
Bid Amount (October 30, 2013) $1,857,000
Construction Cost $2,180,175.43 w/Change Orders
WATER BOOSTER PUMP STATIONS

Ottawa County Regional Water System
The Ottawa County Regional Water System project consists of a 9 million gallons per day water treatment plant including low and high service pumping completed in two (2) phases and 152 miles of transmission and distribution piping ranging in size from 3-inch diameter to 24-inch diameter. High service pumping consists of three (3) pumps rated at 7,000 gallons per minute while the low service pumping consists of two (2) pumps rated at 4,200 gallons per minute. Critical components of the transmission and distribution system consisted of close coordination with existing utility companies, the crossing of rivers and streams located throughout the County with the various pipelines and the obtaining of the many easements needed for the construction.

**Project Cost**
- $73 million

**Completion**
- 2001

Leipsic Reservoir And Pump Station
Design and construction administration of a 400 mgd above-ground reservoir and 600,000 gpd pump station to serve a new ethanol facility in the Village.

**Completion**
- 2007

Swanton Water Treatment Plant
Prime consultant for the design and construction of a 1.25 mgd surface water treatment plant that included piping, pumps, instrumentation, and controls.

**Project Cost**
- $1.835 million

Bellevue Water Plant Improvements
Prime consultant for the design and construction of a 3 mgd solids contact type clarifier which included a new high service pump.

**Project Cost**
- $1.6 million

Corrections Commission Of Northwest Ohio Utility Expansion
Prime consultant for the design and construction of a utility expansion in Williams and Henry Counties which included pumping stations and 15,000 feet of force main.

**Project Cost**
- $750,000

McComb Water Treatment Plant Improvements
Prime consultant for the design and construction of improvements to the Village’s water treatment plant, including new pumping systems for a 300,000 gallon ground level clearwell.

Plymouth Willard Water Main and Pumping Station
Prime consultant for the design and construction of five miles of water main from Willard, including controls, metering, and pumping station.

**Project Cost**
- $425,000

Fulton County Industrial Process Water Station
Prime consultant for the design and construction of an industrial process water station with total installed capacity of approximately 0.7 mgd.

**Project Cost**
- $450,000

Leipsic Protec Water And Sewer
Prime consultant for the design and construction of an elevated water tank, 7,200 feet of waterline, sanitary sewers, and pump station.

**Project Cost**
- $359,000

North Baltimore Raw Water Pump Station
Prime consultant for the design and construction of a water pump station with total installed capacity of approximately 10 mgd.

**Project Cost**
- $300,000
### Oak Harbor Water System Improvements
Prime consultant for the design and construction of improvements to the Village’s water system, included water pumping station, controls, and transmission main.

**Project Cost**
- $180,000

### Delphos Seventh Street Pump Station
Prime consultant for the design and construction of a new pump station.

**Project Cost**
- $130,000

### Grafton Raw Water Force Main Replacement
Prime consultant for the design and construction of the replacement of force main that transports raw river water to water treatment plant.

**Project Cost**
- $98,000

### Ottawa County Raw Water Pumping And Forcemain
Prime consultant for the design and reconstruction of an 18 mgd raw water pumping facility and 9,800 feet of 24-inch raw water forcemain that transports Lake Erie water to the new 6 mgd water treatment plant.

**Project Cost**
- $1.35 million