

Water Treatment Plant

ACEC
Illinois

2008 ENGINEERING EXCELLENCE
Special Achievement Award

Baxter & Woodman, Inc.
Village of Park Forest

Park Forest
Live Grow Discover

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Consulting Engineers

PROJECT HIGHLIGHTS

The Village of Park Forest's water supply and treatment system faced several issues. The existing treatment units at the Water Treatment Plant were old and overloaded, and their treatment effectiveness continued to deteriorate in spite of extensive maintenance. The most pressing issue was that the existing Water Treatment Plant was outdated, making it unable to comply with a rapidly changing regulatory environment. The current method of liquid waste disposal was no longer allowed and had to be brought into compliance with the applicable regulations.

Baxter & Woodman, Inc. provided planning, design and construction services for a new 5.0 MGD lime/soda ash water softening plant. The project was designed in an abbreviated time frame to ensure it was a candidate for participation in the Illinois Safe Drinking Water Act Revolving Loan Fund.

Improvements included:

- Water distribution system evaluation
- Sludge dewatering equipment pilot testing
- New lime/soda water treatment plant
- Demolition of existing water plant
- Existing reservoir modifications
- Existing dewatered sludge removal
- Plant operation during construction
- Lime softening process
- Groundwater quality clarifiers
- Sodium hypochlorite on site generation
- Safety and security considerations

