



BacGen

2007 Wastewater Treatment Plant Improvements

Project Cost: \$38,000

This project is estimated to pay for itself through energy savings within approximately five years.

The objective of this project is to provide process control to best manage changing DO demands within Hubbard's aeration basin. The overall intent is to achieve significant energy savings, while addressing future process and permit requirements. The process control will be accomplished by installing a Variable Frequency Drive (VFD) and varying the speed of the blower to increase or decrease the amount of air being delivered to the aeration basin. The DO analyzers and the new VFD will be integrated into the site SCADA system via PLC. Some of the blowers will be re-sheaved, to allow for slower or faster operation in conjunction with the VFD driven blower. It will also be investigated as to whether the blower associated with the "top" digester should be re-sheaved for additional savings. Historical trending of DO and alarm functions will also be available through the SCADA system.