

Municipal Wastewater

Date Completed:

2016

Construction Cost:

\$13.488 Million

Client or Owner's Rep:

*Ms. Camille Sowell, PE
Project Manager, CP&Y*

Highlights:

- ✓ **Electrical, Instrumentation & Controls**
- ✓ **HVAC**
- ✓ **Lift Station, Headworks**
- ✓ **Clarifiers, NPW Pumps**
- ✓ **Neuro Turbo Blowers**
- ✓ **Aeration System Controls**
- ✓ **New Electrical Service**
- ✓ **Cost Savings**

Photos: Prefabricated Blower Electrical Building and Switchgear

Intercontinental WWTP Improvements Project

City of Houston | Houston, Texas

Project Description | The project included influent lift station pump rehabilitation, new bar screens and screenings conveyor system, new aeration system blowers and electrical switchgear, clarifier mechanisms, new non-potable water system, and other miscellaneous electrical improvements including new pad mounted transformers, generator connection cabinets, valve electric actuators and site lighting.

Services Provided | As a sub-consultant to CP&Y, KGI evaluated the existing electrical system and proposed improvements to the existing electrical system. To decrease overall construction costs, KGI obtained new electrical service from CenterPoint Energy.

KGI was involved in the preparation of bid documents, bidding phase services and construction phase services for electrical, instrumentation and controls (EIC), and HVAC portions of the project. In addition, KGI was responsible in coordinating with the City staff, permitting department and construction contractor during the project progression. Some of the major EIC improvements included:

- Two Separate 34.5 kV Overhead Lines from Power Company
- Transformers
- Prefabricated Blower Electrical Building and Switchgear
- Prefabricated Lift Station Electrical Building and Switchgear
- Mobile Generator Connections
- NPW Pumps Control Panel
- Control Room Modifications including SCADA Improvements

