

## Municipal Lift Station

**Date Completed:**

2013

**Construction Cost:**

\$2.516 Million

**Client or Owner's Rep:**

Mr. Jim Steed, PE

City of Austin Project Manager

**Highlights:**

- ✓ **Large Lift Station Facility Project**
- ✓ **Dual power supply, emergency power and control system design**
- ✓ **Variable frequency drives for ease of operation and energy savings**

**Photo:** Motor Control Center

## Boggy Creek Lift Station Improvements

### City of Austin | Austin, Texas

**Project Description |** The Boggy Creek Lift Station (BCLS) is one of the largest lift stations in Austin and was built in 1978. The wastewater lift station was constructed as a dry well/wet well design. The improvements included replacing the existing pumps with four new submersible dry pit pumps with variable frequency drives, new Motor Control Centers, mobile emergency power generator, mobile diesel pump and new control systems.

**Services Provided |** City of Austin selected KGI preliminary engineering investigation was performed to identify solutions for the project. The project work scope included performing hydraulic calculations, evaluating alternatives, determining the lift station capacity for existing and future conditions, evaluating the need for variable frequency drives on pump motors for energy savings and to minimize odor in the lift station and downstream sewers, and preparation of construction drawings and specifications. KGI coordinated with City of Austin Electrical engineers and operation and maintenance personnel to select the appropriate variable frequency drives, design dual power supply requirements and provide emergency power connection.

KGI assisted the City of Austin with bidding the project and contracting with the successful bidder. KGI worked with the City of Austin project construction team to address all issues during the construction and to complete all project requirements as per the prepared project drawings and specifications. The project has been successfully completed, and has been in continuous operation without any issues.

