

Municipal Water

Date Completed:

2016

Construction Cost:

\$4.2 Million

Client or Owner's Rep:

Mr. Bob Higgins, PE
Project Director, AECOM

Highlights:

- ✓ **Water Treatment Process**
- ✓ **Vertical Turbine Pumps**
- ✓ **Process, Mechanical, Electrical, Instrumentation, Controls and SCADA**
- ✓ **PER, Design Phase and Construction Phase Services**
- ✓ **Constructability**
- ✓ **Existing Plant**

Photos: Vertical Turbine Pump and Adjustable Speed Drives (ASDs)

East Water Purification Plant (EWPP) Plants 1 & 2 Flocculator and Bar Screens Rehabilitation, Addition of ASDs at P2 LLPS and Scum Removal System at P2 City of Houston | Houston, Texas

Project Description | Rehabilitation of Plants 1 & 2 Bar Screens, Plant 2 Flocculator Improvements, Plant 2 Low Lift Pump Replacement and Plant 2 Flocculation Basin Scum Removal System.

Services Provided | As a sub-consultant to AECOM, KGI was responsible for preparation of for process, mechanical, piping, electrical, instrumentation, controls and SCADA for the following portions of the project:

- Plant 2 Low Lift Pump Station Improvements consisting of vertical turbine pumps and adjustable speed drives (ASD)
- Installation of new ASDs for the new Flocculator Drives

KGI was also responsible for preparation of preliminary engineering, detailed engineering including construction phasing to keep the existing plant in service during construction, construction phase services and witness testing of pumps at the factory prior to shipping. In addition, KGI's contract included programming services to control to the new Flocculators, pumps and ASDs.

