

## Municipal Water

**Date Completed:**

2010

**Construction Cost:**

\$170 Million

**Client or Owner's Rep:**

Mr. Raj Singh, PE  
Managing Engineer  
City of Houston

**Highlights:**

- ✓ **Water Treatment Process**
- ✓ **Process, Mechanical, Electrical, Instrumentation, Controls and SCADA**
- ✓ **PER, Design Phase and Construction Phase Services**
- ✓ **Constructability**
- ✓ **Efficient Operation**

**Photos:** Chlorine Evaporators and Chlorinators

## East Water Purification Plant (EWPP) Chlorine Facility Improvements and PLC Replacements Construction Package 13

### City of Houston | Houston, Texas

**Project Description |** Replace chlorine evaporators and chlorinators at Plant 1/2 and Plant 3, and Replace PLCs for a 350 mgd water purification plant.

**Services Provided |** As a sub-consultant to AECOM (formerly J.F.Thompson), KGI was responsible for preparation of Preliminary Engineering Report for the entire project. During Final Design, KGI was responsible for process, mechanical and piping components of the project. KGI prepared construction drawings and specifications related to process, mechanical and piping components of the project. KGI was also responsible for development of detailed construction phasing plans to keep the existing plant in service during construction. Some of the major improvements included in KGI's scope of work are:

- Five (5) 10,000 ppd Chlorine Evaporators and all associated appurtenances including piping at Plants 1/2
- Four (4) 10,000 ppd Chlorine Evaporators and all associated appurtenances at Plant 3
- Twelve (12) Chlorinators varying in size from 4,000 ppd to 10,000 ppd at Plants 1 & 2, and all associated appurtenances
- Eleven (11) Chlorinators varying in size from 4,000 ppd to 10,000 ppd at Plant 3 and all associated appurtenances

