

## Municipal Water

**Date Completed:**

2014

**Construction Cost:**

\$3,031,000

**Client or Owner's Rep:**

*Mr. Raj Singh, PE  
Managing Engineer  
City of Houston*

**Highlights:**

- ✓ **Water Treatment Process**
- ✓ **Hydraulics**
- ✓ **Process, Mechanical, Electrical, Instrumentation, Controls and SCADA**
- ✓ **Planning, Study, PER, Design Phase and Construction Phase Services**
- ✓ **TCEQ Permitting**
- ✓ **Constructability**
- ✓ **Efficient Operation**
- ✓ **M/WBE goals and objectives**

**Photo:** *Newly installed hoseless cable-vac sludge collectors at Northeast Water Purification Plant, City of Houston.*

## Northeast Water Purification Plant Sedimentation Basin Sludge Collector Replacement

### City of Houston | Houston, Texas

**Project Description |** The project included replacement of the existing sludge collector mechanisms in Sedimentation Basin Nos. 1 through 5 with new hoseless cable-vac sludge collectors manufactured by MRI.

**Services Provided |** City of Houston selected KGI for preparation of the PER and bid documents consisting of construction plans and specifications. The project included demolition of existing floating suction sludge collectors and installation of eight (8) new hoseless cable-vac sludge collectors in Sedimentation Basin Nos. 2 through 5, complete with new drives, motors, sludge piping, valves and flow meters, and all associated structural, mechanical, electrical, instrumentation and control improvements complete in place. In addition, KGI was responsible for installation of miscellaneous improvements such as handrails, platforming, stairs and electrical lighting.

