

# KNOX CHAPMAN UTILITY DISTRICT MEMBRANE WTP EXPANSION KNOXVILLE, TENNESSEE



## Project Description

This project consisted of furnishing all labor, materials, tools, equipment and incidentals and performing all work required to construct complete in place and ready to operate new membrane water treatment facility with an initial capacity of 8.0 MGD. The work included connecting to the existing raw water pump station and existing clearwell; modifications to the existing clearwell and high service pump station; two concrete flocculation basins and approximately 1,150 square foot flocculation building; modifications to the existing sludge lagoons, connecting to the existing water treatment plant for solid treatment; approximately 19,500 square foot treatment building, including administrative space, membrane filtration system, flow metering, and chemical feed systems; outdoor chemical storage; and associated site work, site piping, architectural, mechanical, electrical, and instrumentation and control work. The Knox-Chapman Membrane Plant is the largest pressure membrane plant installed to date. The pumps were piped vertical turbines in a dry pit.

## At a Glance

**Contract Amount:**  
\$14.2 M

**Notice to Proceed:**  
May 14, 2012

**Completion Date:**  
June 8, 2014

**MGD:**  
8.0

**Owner:**  
Knox Chapman Utility District

**Engineer:**  
Jacobs Engineering Group