



### TOWN OF JUPITER

Location: Jupiter, Florida  
 Engineer: Kimley Horn  
 Market: Municipal  
 Membrane: Hydranautics 8" CPA2  
               Hydranautics 8" ESPA

Capacity: 12.0 MGD in 2 Stages  
 Feed Source: Floridan Aquifer  
 Feed Quality: 5500 mg/l TDS  
 Start-Up: November 1990  
               February 1997

**Project Highlights:** In 1996, the Town of Jupiter contracted with Wharton-Smith as the General Contractor and with Hydropro, Inc. as the Reverse Osmosis Original Equipment Manufacturer to create their newest addition -- a 6 MGD expansion to the already existing plant. This facility now produces 12 MGD of potable water.

Similar designs were brought to play in the new 6 MGD expansion in which four additional 1.5 MGD RO trains were manufactured and installed by Hydropro, Inc. A newer membrane element was installed in this expansion -- the Hydranautics 8" ESPA.

The Jupiter RO facility works in conjunction with an existing lime softening plant. The product waters from the combined facilities are blended before storage. The RO feed water is fed antiscalant prior to micron filtration. The pre-treated water is then pumped through the two stage RO plant to create a permeate of approximately 200 mg/l TDS.

As one of the largest municipal RO facilities operating in Florida, Jupiter's plant is a model for efficiency of space and operation. Since start-up, Hydropro has assisted with maintenance of this plant whenever called upon, maintaining a close working relationship with the Town of Jupiter.