



ST. LUCIE WEST UTILITIES

3.4 MGD Final Expansion - Trains 3 & 4

Location:	Port St. Lucie, Florida	Capacity:	3.4 MGD
Engineer:	Jon Whitmer	Feed Source:	Floridan Aquifer
Market:	Municipal	Feed Quality:	5,000 TDS
Membrane:	Toray	Start-Up:	January 2006

Project Highlights: The St. Lucie West Services District provides potable water, reclaimed water and wastewater treatment services to the community of St. Lucie West. This Service District is in the center of the City of Port Saint Lucie which was named the fastest growing City in the United States in 2005.

The rapid growth of their sister community has escalated the build-out of St. Lucie West. The water demands were near capacity when Hydropro was contracted as the membrane system supplier to construct a new 3.4 MGD expansion. Hydropro has been involved with this community for many years in not only providing service on a continual basis, but also constructing previous expansions to the system including the 1MGD membrane softening system completed in 1998.

System highlights include multi-port pressure vessels and also an energy recovery device to increase the operational efficiency of the plant. Hydropro finished the project at a lower competitive costs due to their up-front value engineering and design review of the facility.

The plant itself has a uniqueness in that from its original construction it has gone through changes and expansions that clearly delineate the evolution of membrane technology from the 1980's through 2006.