



**Craig A. Smith & Associates, Inc.**

Engineers • Surveyors • Subsurface Utility Engineering • 3D Subsurface Imaging • Utility Coordination

# CITY OF BOCA RATON

## PILOT STUDY ON REVERSE OSMOSIS FOR WATER TREATMENT PLANT

### Project Entity:

City of Boca Raton  
201 W. Palmetto Park Rd.  
Boca Raton, FL 33432

### Contact:

Don Kree  
Chief Chemist  
(561) 393-7700

CAS Project No.: 99-0751

CAS Profile No.: 8

### Project Description:

CAS conducted a pilot study on the use of reverse osmosis for the City of Boca Raton's Water Treatment Plant. The study included the evaluation and recommendation of membrane elements, chemical pre-treatment and filters based on sampling results for the ultimate design to reduce the total organic carbon and softening of the groundwater for a 40 MGD computer controlled reverse osmosis water treatment plant. Total design and permitting costs were \$56,500. The project began preliminary design and testing in 2002 and construction completed in 2005.

### Responsibilities:

Survey, preliminary study, sampling, membrane testing, final report and recommendations, stormwater design and permitting, and construction observation.

### Key Personnel:

Stephen C. Smith, P.E. – Senior Vice President; William H. Landis, P.E. – Senior Supervising Engineer; Tony Gomes – Senior Field Representative

