



## **Dunes CDD Water Treatment Plant Expansion**

The Dunes Community Development District (DCDD) owns and operates a 0.72 million gallon per day water treatment plant that began service in August 2007. Provisions were made during the design and construction of this facility to double its capacity to meet future demand. Although additional treatment plant capacity is not needed at this time, a recently completed capacity analysis report identified the need to begin planning and design of the water plant expansion. Last year additional well capacity was added to provide adequate supply of water for the expanded plant.

McKim and Creed consulting engineers have completed the design of the expansion of the water treatment plant to increase its capacity from its current 0.72 million gallons per day to 1.44 million gallons per day. The project was advertised for bids and 10 bids were received on February 14, 2014. After conducting an evaluation of the bids, McKim and Creed recommended award to McMahan Construction, Inc. of DeLand, FL for \$1,895,000. A contract was subsequently awarded to McMahan Construction, Inc. on April 4, 2014. Construction of the plant expansion is expected to take 330 days. This project involves expansion of the Reverse Osmosis (RO) treatment system, including cartridge filtration, feed pumping, RO skid and membranes located on a combined membrane skid, one (1) additional degasifier and wet scrubber system, one (1) additional transfer pump, and one (1) diesel driven high service pump and miscellaneous chemical system improvements

The DCDD was awarded a grant from the St. Johns River Water Management District for 40% of the construction cost of the water plant expansion project, which uses an alternative, brackish groundwater source of water. We executed an agreement with the St. Johns River Water Management District in September of last year for \$902,000. DCDD's share of the project cost of \$1,137,000 is to be paid from financial reserves set aside for this purpose. When placed into operation, this project will provide a reliable, sustainable supply of drinking water for the community.