

CITY OF LAKE WORTH REVERSE OSMOSIS WATER TREATMENT PLANT EXPANSION LAKE WORTH, FLORIDA



Project Description

This \$17 million project included expansion and modifications to the existing Lake Worth Water Treatment Plant. Approximately \$2.5 million ARRA Stimulus funds were included in the project funding. This project increased total plant capacity to 4.5 MGD. The project scope included a new 26,000 sf Reverse Osmosis Membrane Water Treatment Building. The treatment train inside the new RO building has 3 reverse osmosis skids with a minimum permeate capacity of 1.5 MGD each, 4 cartridge filters, 3 vertical turbine pumps and extensive stainless-steel process piping. The RO Building also houses new chemical storage and feed tanks and injection systems. The treated water is run through a new Degasifier and Odor Control System before being mixed in the Clearwell with the treated water from the existing lime softening plant outflow. Other features included replacement of the existing line scrubber system, replacement of the water tower altitude valve, rehabilitation of the existing clearwell, concrete and improvements to the site paving and access sidewalks.

At a Glance

Contract Amount:
\$17.2 M

Notice to Proceed:
October 1, 2009

Completion Date:
December 28, 2011

MGD:
4.5

Owner:
City of Lake Worth

Engineer:
Mock, Roos & Associates