



Central Sarasota County Water Reclamation Facility

Sarasota County, Florida

Hole Montes was selected by Sarasota County to provide the design, permitting and construction phase services for upgrade and expansion of the Central County Water Reclamation Facility (WRF) to 4 MGD. The Central County WRF had been purchased by Sarasota County in 1996 from a private utility company and this project consisted of development of a plan to allow expansion of this 2 MGD facility to become an 8 MGD regional facility.

Prior to the current project, the Central County WRF consisted of two oxidation ditches that each had an intrachannel (boat) clarifier. Both the aeration capacity, as well as the settling capacity, within these oxidation ditches was limited due to the boat clarifier configuration. This limitation prevented these oxidation ditches from treating the amount of wastewater that they otherwise would be capable. One portion of the project included removal of the boat clarifiers and upgrade of the oxidation ditch aeration equipment. This was done in a manner that allowed increasing the treatment capacity of these oxidation ditches to 4 MGD as well as operation in a mode that allowed both nitrification and denitrification. A new mixed liquor pumping station allowed for the mixed liquor from the oxidation ditches to be pumped to the new circular clarifiers which allowed construction while minimizing excavation into the water table and rock, as well as also allowing gravity flow from the new clarifiers to the new effluent filters and expanded chlorine contact chambers. The effluent filters were constructed as deep bed filters in order to allow possible conversion to denitrification mode of operation in the future if AWT levels of treatment are ever required, as well as with some common components to allow expansion to 8 MGD.



A new aerobic sludge digestion tank was constructed and the aeration equipment in the existing digestion tanks was upgraded. The project was designed for the phased expansion of this facility to an ultimate 8 MGD capacity in the future as needed.

Following disinfection, the effluent from the facility meets all reclaimed water standards. The reclaimed water is stored in both on-site and off-site storage ponds. The reclaimed water pumps have in-line filtration equipment to remove any algae that may grow in the effluent storage ponds.

Sarasota County combined two funding sources in order to finance the cost of construction of this project. Hole Montes assisted Sarasota County in obtaining a State Revolving Fund (SRF) loan for \$5.1 million of the project costs.

During construction, Hole Montes provided contract administration, full-time inspection, start up assistance, preparation of O&M Manual, and staff training.