

PROJECT PROFILE

Project Name:

Floating Wetlands for Nitrogen Management of Reclaimed Water

Project Customer:

Pasco County
CH2M

Project Location:

Pasco County, Florida

Martin EcoSystems

Product:

Floating Treatment Wetland

Application:

Reclaimed Water Treatment



Application Summary

The Pasco County Master Reuse System (PCMRS), located in Florida, is the sole method of wastewater effluent management for Pasco County. The PCMRS serves approximately 12,000 residential customers. As regulations evolve, Pasco County is committed to complete water reuse for beneficial purposes. In order to meet TMDLs for Total Nitrogen (TN), the County is pursuing to passively use storage facilities to reduce TN.

Solution

Floating Treatment Wetlands were installed to assess the efficacy of TN reduction. After 18 months, Floating Treatment Wetlands proved to enhance Total Nitrogen removal by 32% by decreasing suspended algal growth and increasing denitrification. The results revealed that during the performance period, TN treatment was consistent with rates measured in treatment wetlands, and that TN treatment was superior with the presence of Floating Treatment Wetlands.

In addition to treatment performance, observations were drawn related to habitat creation, species succession, and nuisance species control.

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