

REGIONAL WASTEWATER IMPROVEMENTS

STATE PROGRAM: Texas Water Development Board

ASSISTANCE RECIPIENT: Sienna Plantation

ASSISTANCE AMOUNT: \$41M



PROJECT DESCRIPTION

Several municipal utility districts in the Missouri City area in Texas are currently using temporary package treatment plants for their wastewater service. These temporary plants will soon exceed their design lives, and the districts will need new facilities to continue service. The municipal utility district for Sugarland received \$25 million from the CWSRF to put towards a \$41 million project to update these systems. The funding was used for the design and construction of a Regional Wastewater Treatment Plant that will receive and treat wastewater from existing users and will expand capacity for future users from the south portion of the growing Sienna Plantation neighborhood. This project will reclaim water from the treatment process and reuse it for irrigation and detention pond recharge. The new regional plant will utilize membrane bioreactor technology to treat the effluent to Type I reuse standards. Additionally, the project includes the construction of a storage and pressurization system for the reclaimed water. This project will increase treatment capacity and reliability for customers in this expanding area.

To read more about this case study, please visit <https://www.epa.gov/system/files/documents/2022-02/2021-pisces-compendium.pdf>.