



UPDATE

FLAGLER COUNTY

Plantation Bay Utilities January 2019



2018 Wastewater Treatment Plant Upgrades under Construction

- New water quality rejection water holding tank
- New Wastewater Treatment Plant master liftstation
- Additional filtration system
- Fixed standby generator
- Rehabilitation of existing wastewater treatment plant
- Upgraded electrical and automation
- Master plan for future improvements to include an additional clarifier
- New chlorine contact chamber



Plantation Bay New Water Treatment Plant bids due January 16

Flagler County advertised for sealed bids for a new Reverse Osmosis Water Treatment Facility that will handle 1/2 million gallons of water each day, and that is expandable up to 3/4 million gallons of water per day.

Reverse Osmosis is a water purification technology that uses a semi-permeable membrane to remove suspended materials from water to provide excellent quality drinking water. It is capable of removing salt and other effluent materials from the water molecules.

The scope of work for the project includes the following:

- Demolition of the existing piping, and the installation of new yard piping, including connections to the existing water plant
- Construction of a booster pump station
- Construction of a sewer lift station
- Construction of a new Reverse Osmosis building
- Furnishing and installing Reverse Osmosis equipment:
 - enhanced raw pretreatment clarification
 - automated disinfection and chemical feed systems
- Removal and replacement of backwash pumps
- Electrical and instrumentation upgrades/modifications
- All other work required for a complete, tested and operational water treatment system



2019 Legislative Request

Flagler County has again made the Plantation Bay Utilities – both drinking water and wastewater – a Legislative Priority for the 2019 Legislative Session, which begins March 5. It has requested \$2 million in funding to address the potable water, health and safety issues for the families served by the utility system. Flagler County will continue to seek funding from all sources to offset costs to its utilities customers.

WATER QUALITY REPORTING

The latest reports of Plantation Bay's drinking water from samples drawn in September 2018 show that all levels of contaminants (specifically Trihalomethanes and Haloacetic Acids) are well within the limits as defined by the Florida Department of Environmental Protection. Drinking water – whether tap or bottled – comes from natural sources, such as rivers, lakes, streams, ponds, reservoirs, springs, and wells. All natural water sources are prone to pick up contaminants as the water travels over or through the ground. ***The utility has passed ALL tests since problems were first encountered in 2015, shortly after Flagler County took sole possession of the utility.***

In order to ensure that tap water is safe to drink, the EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water, which must provide the same protection for public health. Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

The following Haloacetic Acids – Monochloroacetic Acid, Dichloroacetic Acid, Trichloroacetic Acid, Bromoacetic Acid, Dibromoacetic Acid – had a total measure of 37.41 units (one microgram per liter, or one part per billion) out of 60 MCL (maximum contaminant level).

Trihalomethanes – Chloroform, Bromoform, Bromodichloromethane, Dibromochloromethane – had a total measure of 69.47 units (one microgram per liter, or one part per billion) out of 80 MCL (maximum contaminant level).

Currently, Plantation Bay operates a 0.756 million gallons per day (MGD) water treatment plant that currently serves about 1,846 households within the community. The process for treating the water, distributed to Plantation Bay consists of a 1.50 MGD Aeration Tank, a 0.756 MGD Lime Softening System, a 0.756 MGD Sand Filtration System, a Chloramine Disinfection System (that separately injects Chlorine and Ammonia into the filtered water), a system that injects a corrosion inhibitor (to control Lead and Copper in the water) and a 450,000 gallon ground level Storage Tank

For water quality questions, please contact Raymond Panas, Utilities Coordinator at 386-313-4133.

FEMA HAZARD MITIGATION GRANTS

The Hazard Mitigation Grant Program (HMGP) provides grants to states and local governments to implement long-term hazard mitigation measures after a Major Disaster Declaration. Authorized under the Robert T. Stafford Disaster Relief and Emergency Assistance Act and administered by FEMA, HMGP was created to reduce the loss of life and property due to natural disasters.

During hurricanes Matthew and Irma, the utility system was operated off generator power for extended periods of time, though customers suffered no loss of service. Following the hurricanes, Flagler County applied for – and received – several grants to harden Plantation Bay Utilities and save its residents money.

Fixed generators have been ordered for the five major lift stations at Plantation Bay, which is one-third of the total lift stations. This will aid operations during future storms and improve the quality of life for residents during major weather events. Additionally, Flagler County was able to purchase four portable generators that can be deployed to fulfill other areas of need.

The approval process is underway for applications filed after Hurricane Irma for permanent backup generators to serve the well fields. These grants will better prepare the utility for future disasters, and reduces the financial burden of its customers.