



Legislation Text

File #: 130117., **Version:** 1

Kanapaha Water Reclamation Facility Sequential Chlorination Project (B)

Staff recommends awarding a contract to Brandes Design-Build, Inc. for construction services for the Kanapaha Water Reclamation Facility Sequential Chlorination Project.

The Kanapaha Water Reclamation Facility (KWRF) treats wastewater to meet drinking water quality standards, allowing the effluent to be returned to the Floridan Aquifer. In the final disinfection process, chlorine is added to the effluent to remove harmful organisms from the water which can result in the formation of disinfection by-products.

New, more stringent regulatory limits for disinfection by-products have been established by the Florida Department of Environmental Protection (FDEP). To comply with the new requirements, Water/Wastewater Systems evaluated several treatment options that would ensure that GRU's wastewater treatment process meet the new regulatory standards. Cost estimates for various treatment options ranged from \$1,000,000 to \$10,000,000. After careful consideration, GRU determined sequential chlorination to be the most cost-effective method for GRU's compliance with the new regulations.

Sequential chlorination involves the installation of an additional chemical feed system at KWRF. The new disinfection process will use ammonium sulfate in sequence with the existing sodium hypochlorite to reduce the formation of the disinfection by-products. The construction project includes installing two ammonium sulfate chemical storage tanks, chemical dosing pumps, a metal roof structure for the chemical system equipment, and several water quality analyzers for controlling the disinfection process.

Utilities Purchasing issued an Invitation to Bid to eleven known companies that perform this type of work. In addition, the bid was posted on GRU's web page and on the Mid-State Builders Exchange. Six firms attended a mandatory pre-bid meeting. Four bids were received; two were no bids due to the contractor schedule unavailability. A tabulation of the bids received is attached for your information. Any additional purchases will be made in accordance with established Purchasing policies.

Funding for this work is included in the Wastewater System Capital Improvements FY 2013 and FY 2014 budget.

The City Commission: 1) authorize the General Manager, or his designee, to execute a contract with Brandes Design-Build, Inc. to perform construction services for the Kanapaha Water Reclamation Facility Sequential Chlorination Project, subject to approval of the City Attorney as to form and legality; and 2) approve the issuance of a purchase order to Brandes Design Build, Inc. for these services in an amount not to exceed \$1,153,100; and 3) authorize staff to procure services, equipment and materials, as required, to complete the project as budgeted, subject to the final appropriation of funds in each fiscal year.

