

**Indian River County, Florida
Department of Utility Services
Board Memorandum**

Date: May 2, 2023
To: Board of County Commissioners
From: Sean C. Lieske, Director of Utility Services
Prepared by: Harrison Youngblood, PE, Utilities Engineer, Utility Services
Subject: Work Order 10 to Kimley-Horn and Associates for Engineering Services to Design a New Sand Separator for the Oslo Water Treatment Plant

Background:

Indian River County Department of Utility Services (IRCDUS) owns and operates the Oslo Water Treatment Plant (WTP), an 8.57 million gallon per day (MGD) facility that employs nanofiltration (NF) and raw water blending to treat groundwater from the Upper Floridian Aquifer (UFA). The UFA also requires pre-treatment to remove suspended debris and sand from the raw water to prevent fouling of the filtration membranes. Pre-treatment of the UFA groundwater consists of a sand separator, 5-micron cartridge filtration, and chemical injection. The sand separator is an automatic self-cleaning in-line filter that filters the raw water supply before entering the plant.

Analysis:

The existing sand separator has been off-line intermittently for over three years and permanently since November 2022 due to the inability to obtain repair parts for the German manufactured equipment. IRCDUS desires to replace the existing sand separator with one of a new make and model, and has requested that Kimley-Horn and Associates (KHA) prepare design documents and permitting associated with the replacement. Additionally, IRCDUS has requested the proposed sand separator replacement design documents be incorporated into the ongoing South WTP Improvements project, adding the sand separator replacement as a change order to TLC Diversified’s existing contract. The KHA scope of services details the professional engineering services for design, permitting, and construction phase services associated with the sand separator replacement. Work Order 10 will include these services for a cost of \$52,427.00.

Funding:

Expenses for this project, in the amount of \$52,427.00, will be recorded in the Utilities/South WTP Membran/South R/O Membranes & Retrofit account, number 471-169000-19503. Since this is a Utilities operating capital project, the funds will come from fund balance. Utilities operating funds are derived from water and sewer sales.

Description	Account Number	Amount
Utilities/South WTP Membran/South R/O Membranes & Retrofit	471-169000-19503	\$52,427.00

Recommendation:

Staff recommends that the Board of County Commissioners approve Work Order No. 10 with Kimley-Horn and Associates, Inc., to provide professional services for the Sand Strainer replacement at the South Water Treatment Plant in the amount of \$52,427.00, and authorize the Chairman to sign on their behalf. So long as there are no changes in the dollar amount under the Work Order, upon adequate completion of the work set forth in the Work Order, staff is directed to make final payment and release any retainage to Kimley-Horn and Associates, Inc., after review and approval by the Purchasing Manager the County Attorney's office.

Attachments:

Work Order No. 10 to Kimley-Horn and Associates