



## INDIAN RIVER COUNTY, FLORIDA DEPARTMENT OF UTILITY SERVICES

**Date:** October 16, 2018

**To:** Jason E. Brown, County Administrator

**From:** Vincent Burke, P.E., Director of Utility Services

**Prepared By:** Arjuna Weragoda, P.E., Capital Projects Manager

**Subject:** Work Order No. 5 with Kimley Horn and Associates for Design and Implementation of Membrane Replacement for Reverse Osmosis (RO) Skids at South (Oslo) RO Water Treatment Plant

### **DESCRIPTIONS AND CONDITIONS:**

Indian River County Department of Utility Services (IRCDUS) owns and operates two (2) regional potable water treatment facilities. The South County Reverse Osmosis (SCRO) Water Treatment Plant is rated for 8.57 million gallons per day (mgd). The existing membranes on skids 1 through 4 at the SCRO plant are more than 10 years old and ready for replacement, due to higher operating pressures, reduced salt rejection and their inability to achieve design rated capacity of 1.5 mgd. Replacement will consist of removal and disposal of the existing elements, swabbing/cleaning of the existing pressure vessels, disinfection of RO skid product piping, installing new membrane elements, flushing, and startup and testing of new membranes.

### **ANALYSIS:**

Staff requested Kimley-Horn and Associates (KHA) submit a proposal to implement new membranes at the SCRO plant to include a condition assessment, contract specifications and drawings, permitting, observation and startup. The work order will be provided in accordance with the Continuing Consulting Engineering Services Agreement for Professional Services with Kimley-Horn and Associates dated April 17, 2018. The scope is more specifically described in the attached Work Order No. 5. The total negotiated cost for the membrane replacement at the SCRO plant in Work Order No. 5 is a lump sum amount of \$72,366.00, separated into four (4) tasks.

### **FUNDING:**

Funding for the Membrane Replacement for the SCRO plant project is available in the account within the Utilities Operating Fund. Operating funds are derived from water and sewer sales.

Description	Account Number	Amount
SCRO Membrane Replacement	471-23536-044699-19503	\$72,366.00

### **RECOMMENDATION:**

Staff recommends approval of Work Order No. 5 authorizing the professional services and requests the Board of County Commissioners to authorize the Chairman to execute Work Order No.5 on their behalf for a lump sum amount of \$72,366.00 to Kimley-Horn and Associates.

### **ATTACHMENT(s):**

Work Order No.5 and supporting documents (7 Pages)