



INDIAN RIVER COUNTY, FLORIDA DEPARTMENT OF UTILITY SERVICES

Date: January 26, 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. 17 with Kimley Horn and Associates for Design and Implementation of Floridan Wellfield Assessment and Improvements.

DESCRIPTIONS AND CONDITIONS:

Indian River County Department of Utility Services (IRCDUS) owns and operates two (2) regional potable water treatment facilities. The North County Reverse Osmosis (NCRO) Water Treatment Plant is rated for 11.44 million gallons per day (mgd). The South County Reverse Osmosis (SCRO) Water Treatment Plant is rated for 8.57 million gallons per day (mgd). The source water for both plants are from a total of sixteen (16) Upper Floridan Aquifer (UFA) wells – nine (9) are at the NCRO and seven (7) are at the SCRO. Some of these wells are almost 26 years old.

Raw water is the lifeblood and the main source of water for both water treatment facilities. With recent and more frequent well pump motor failures at the NCRO, limitations in the SCRO wellfield controls and remote telemetry unit (RTU) system, and on-going wellfield improvements at the SCRO facilities, it is prudent to improve the sustainability and reliability of these wells. The substantial completion of the new Well No. 7 at SCRO was achieved December 2017, and Well No. 4R is currently under construction; hence the two subject wells have been removed from the assessment.

The purpose of this project is to improve the sustainability and reliability of the wellfields and implement a plan to standardize equipment and operations of wells, improve reliability of the wellfields, and provide upgrades to the fiber optic and controls system for the wellfields. Standardizing equipment and operations will allow interchangeability of equipment among all of the wells, resulting in a more robust wellfield system.

ANALYSIS:

Staff requested Kimley-Horn and Associates (KHA) prepare a proposal to evaluate, assess and improve the fourteen (14) old wells. The work order will be provided in accordance with the Extension and Amendment of Continuing Contract Agreement for Professional Services entered into as of the 4th day of November, 2014, and Extension of Continuing Contract Agreement for Professional Services entered into the 24th day of October, 2017. The scope is more specifically described in the attached Work Order No. 17. The total negotiated cost for the Wellfield Assessment and Improvements in Work Order No. 17 is a lump sum amount of \$87,953.00 separated into four (4) tasks.

FUNDING:

Funding for the Wellfield Assessment and Improvements project is available in the Other Professional Services account within the Utilities Operating Fund. Operating funds are derived from water and sewer sales.

Description	Account Number	Amount
Other Professional Services	47123536-033190	\$87,953.00

RECOMMENDATION:

Staff recommends approval of Work Order No. 17 authorizing the professional services and requests the Board to authorize the Chairman to execute Work Order No. 17 on their behalf for a lump sum amount of \$87,953.00 to Kimley-Horn and Associates.

ATTACHMENT(s):

Work Order No. 17 and supporting documents (8 Pages)