

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

Date: November 22, 2023

To: Board of County Commissioners

Through: John A. Titkanich, Jr., County Administrator
Sean C. Lieske, Director of Utility Services

From: Howard G. Richards, PE, Manager - Capital Projects

Subject: Presentation of Water Quality & Potable Water Treatment Facility Evaluation to Indian River Board of County Commissioners
IRCDUS Project ID 12.23.540

Descriptions and Conditions:

Indian River County Department of Utility Services (IRCDUS) operates two (2) water treatment plants (WTP) that provide potable water service to its customers. The two WTPs have a combined capacity of 25.7 million gallons per day (MGD) and an average daily flow of approximately 12 MGD. The plants obtain raw water from the upper Floridan aquifer and treat it to meet federal and state drinking water standards.

IRCDUS previously contracted with Kimley-Horn and Associates (KHA) to perform a water quality analysis, which was completed in September 2021. Data from the report is often referred to when addressing customers' complaints related to the deterioration of plumbing pipes at their residences. Although the information was helpful when addressing such concerns, the department continued to receive complaints surrounding the quality of the system's water and thus, sought to have a second water quality study performed to ensure the system was performing well and able to meet regulatory requirements.

On September 20, 2022, the Board of County Commissioners (BCC) approved Work Order (WO) 9 (RFQ 2018008, which expired on April 16, 2023) to Tetra Tech, Inc. (Tetra Tech) to perform a Water Quality Study and Potable Water Treatment Facility Evaluation. The purpose of the study was to evaluate the finished water quality as it leaves the treatment facilities and the water quality within the distribution system, and how it may affect the metallic components of the customers' plumbing systems. In addition, the study included an evaluation of the operation of the existing treatment facilities in terms of efficiency and operation in accordance with industry standards and applicable regulations.

Analysis:

Tetra Tech completed its final report in September 2023. In the report, Tetra Tech made recommendations for modifications to the operations, or water treatment processes, to improve efficiency, finished water quality, or reduce corrosivity. IRCDUS desires to have Tetra Tech present the report and findings to the BCC on December 12, 2023. As such, WO 2 per Continuing Contract Agreement (RFQ 2023015), dated May 2, 2023, was approved by the County Administrator in November for a follow-on task to the original WO 9, to prepare and assist IRCDUS with the presentation.

Presentation

Funding:

As this is a presentation only, there is no additional funding being requested.

Recommendation:

Staff recommends that the Board of County Commissioners approve Tetra Tech, Inc. to present Water Quality & Potable Water Treatment Facility Evaluation to Indian River Board of County Commissioners.