

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

Date: June 28, 2019

To: Jason E. Brown, County Administrator

From: Vincent Burke, PE, Director of Utility Services

Prepared By: Arjuna Weragoda, PE, Capital Projects Manager

Subject: Amendment 1 to Work Order No. 1 with Arcadis for Design, Procurement and Construction Administration to Rehabilitate the RAS/WAS Pumps at the Central Wastewater Treatment Plant

Descriptions and Conditions:

On March 26, 2019, the Indian River County Board of County Commissioners (BCC) approved Work Order No. 1 to Arcadis US, for professional engineering services to remedy the return-activated sludge/waste-activated sludge (RAS/WAS) system at the Central Wastewater Treatment Facility (CWWTF). During the kick off meeting, staff brought up additional items that are a part of deferred maintenance that would require design and bidding.

Analysis:

At that meeting on May 3, 2019, staff requested Arcadis submit a proposal for professional engineering services to include the additional work at the CWWTF. The additional work comprises of the following:

- Replace the existing VFDs for each of the RAS and WAS pumps (10 total)
- Replace the existing level sensors (four total) with two (2) in the RAS/WAS splitter box and two (2) in the thickened sludge storage tanks
- Replace the existing 150 gallons per minute (gpm) rotary drum thickener (RDT) with a new unit rated at 300 gpm
- Develop phasing plan for construction to ensure continued operation
- Develop bid documents, provide pre-bid support, and bid recommendation

Per the Continuing Consulting Engineering Services Agreement for professional engineering services dated April 17, 2018, Arcadis submitted a proposal for design, bidding assistance and construction management services. Arcadis has submitted Amendment No.1 to Work Order No. 1, which includes providing professional services for design, specifications/bid documents, and construction observation to rehabilitate the RAS/WAS pump system and the RDT at the Central WWTTF. The total negotiated cost

for the additional work for professional services is a sum amount of \$44,075, which brings the total contract amount to \$110,598.

Funding:

Funds for this project are derived from the renewal and replacement budget in the operating fund. Operating funds are generated from water and sewer revenues.

Description	Account Number	Amount
CWWTF RAS/WAS Rehabilitation	47123536-044699-19516	\$44,075.00

Recommendation:

Staff recommends that the Board of County Commissioners approve Amendment No.1 to Work Order No. 1 with Arcadis, in the amount of \$44,075.00, for Professional Services that include design, specifications/bid documents, and construction observation services to rehabilitate the Return-Activated Sludge/Waste-Activated Sludge pump system and the rotary drum thickener at the Central Wastewater Treatment Facility, and authorize the Chairman to execute said work order on their behalf.

Attachments:

1. Work Order No.1: RAS and WAS pump replacement (9 Pages)