

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

Date: November 4, 2019

To: Jason E. Brown, County Administrator

From: Vincent Burke, PE, Director of Utility Services

Prepared By: Arjuna Weragoda, PE, Capital Projects Manager

Subject: Groundwater Modeling and Impact Evaluations with CDM Smith

Descriptions and Conditions:

Indian River County Department of Utility Services (IRCDUS) owns and operates two (2) regional potable water treatment plants (WTP). The South County WTP withdraws groundwater from seven existing Upper Floridan Aquifer (UFA) production wells, while the North County WTP relies on groundwater from nine existing UFA production wells. The St. Johns River Water Management District (SJRWMD) requires that proposed groundwater withdrawals be evaluated against the following water resources evaluation criteria:

- No interference with other existing legal users;
- Cannot induce saline water intrusion;
- Cannot cause or contribute to pollution of the water resources;
- Cannot adversely affect existing offsite land uses by more than 10 percent (measured in both quantity and quality of water degradation);
- Cannot produce environmental impacts (e.g., harm to wetlands); and
- No lowering of Minimum Flows and Levels (MFLs) for designated water bodies.

Analysis:

Staff requested CDM Smith Inc. (CDM) prepare a proposal to update the groundwater modeling. The work order will be provided in accordance with the Agreement for Professional Services Contract No. 2018008 dated April 17, 2018. The scope is more specifically described in the attached Work Order No. 5. The total negotiated cost for the groundwater modeling in Work Order No.5 is a sum amount of \$64,800.

Funding:

Funds for this project are derived from the other professional services account in the Utilities operating fund. Utilities operating funds are generated from water and sewer sales.

Description	Account Number	Amount
Other Professional Services	47123536-033190	\$64,800

Recommendation:

Staff recommends approval of Work Order No. 5 and requests that the Board of County Commissioners authorize the Chairman to execute the Work Order on their behalf to engage the services of CDM Smith for a sum amount of \$64,800.00.

Attachment:

Work Order No.5 with CDM. *(5 Pages)*