



INDIAN RIVER COUNTY, FLORIDA DEPARTMENT OF UTILITY SERVICES

Date: July 27, 2018

To: Jason E. Brown, County Administrator

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

Through: Jennifer Hyde, Purchasing Manager

Prepared By: Terry Southard, Operations Manager, Utility Services
Richard Meckes, Wastewater Superintendent, Utility Services

Subject: Sole Source for West Regional Wastewater Treatment Facility HACH NITRATAX Meters

BACKGROUND/ ANALYSIS:

On April 11, 2017, the Indian River County Board of County Commissioners (BCC) approved the Florida Department of Environmental Protection (FDEP) Consent Order 17-0072 for the West Regional Wastewater Treatment Facility (WRWWTF). The WRWWTF is operating under intense scrutiny by the FDEP for two years from that date, facing potential financial penalties for any exceedances of the permit limits.

The Indian River County Department of Utility Services (IRCDUS) obtained the services of EOSI, a wastewater treatment consulting firm, to troubleshoot nutrient reduction rates and efficiencies within the treatment system. EOSI supplied and installed NITRATAX meters to monitor the nitrate and nitrite (NOx-N) levels and trend those levels 24 hours a day. The NOx-N levels are used to analyze and trend certain parameters in real time, to ensure FDEP permit compliance. EOSI is ending the troubleshooting and monitoring phase of the service and has scheduled to remove the meters during September 2018. These meters are very important to the operation of the facility and are vital to ensure that the FDEP permit limits stay in compliance. Without the ability to monitor and trend the NOx-N levels, staff will not know when problems in the treatment system are emerging and may not make changes in a timely manner to avoid a noncompliance event.

IRCDUS needs three (3) NITRATAX PLUS SC 2MM meters to monitor the NOx-N levels in several areas of the treatment process. These meters have been proven to be reliable and trouble free. They have already been integrated into the facility's SCADA system as part of EOSI's monitoring, so replacing with the exact same meters will not require re-integration or operator changes that have already been implemented and are providing permit compliance oversight. In addition, our staff is familiar with the operation of the NITRATAX meters so there will not be any reduction in production and a better chance to catch a possible noncompliance event occurring. The ability to profile the NOx-N levels in the treatment process is very helpful with the facility process control. The cost of the NITRATAX meters, system controllers, mounting hardware and associated warranty protection plan is \$64,299.78.

FUNDING:

This would be an operating fund purchase. Although not currently budgeted, the funds would come from IRCDUS Operating Fund Reserves. Operating funds are derived through water and sewer sales.

Description	Account Number	Amount
Utilities/Other Equipment	471-166002	\$61,401.78
Utilities/Wastewater/Other Professional Services	47121836-033190	\$ 2,898.00
	Total	\$64,299.78

RECOMMENDATION:

The staff of Indian River County Department of Utility Services recommends that the Board of County Commissioners approve the purchase of three NITRATAX PLUS SC 2MM meter systems and authorize the Purchasing Division to issue a purchase order to HACH Company for \$64,299.78.

ATTACHMENTS:

1. HACH Company Quote No. 100327052v3
2. Sole Source Letter, HACH Company