

**INDIAN RIVER COUNTY, FLORIDA
DEPARTMENT OF UTILITY SERVICES
BOARD MEMORADNUM**

DATE: July 6, 2017

TO: Jason E. Brown, County Administrator

FROM: Terry Southard, Operations Manager

THRU: Vincent Burke, Director of Utilities
Jennifer Hyde, Purchasing Manager

SUBJECT: Request for Sole Source for Equipment, Repair and/or Replacement for Data Flow System Products

BACKGROUND/ ANALYSIS:

In 1990, the Indian River County Department of Utilities Services (IRCDUS) solicited bids for a Supervisory Control and Data Acquisition (SCADA) system that would monitor the county's growing sewage collection system. This system is our electronic eyes and ears for the collection and transmission of county sewage. In 1990, at the time of the bid, IRCDUS was collecting and transporting over 3.5 million gallons per day (MGD) of sewage, and now in 2017, that has increased to 5.0 MGD. SCADA monitors and alerts stand-by personnel of any power failures, high wet well levels and equipment malfunctions. With these alarms, it allows for quick responses and helps avoid sewer-back-ups into homes and sewage overflows on the ground. Data Flow Systems (DFS) of Melbourne, Florida, was awarded the bid. At this time, DFS monitors 324 lift stations and 22 reuse sites.

In 1994, SCADA was expanded and installed on wastewater treatment facilities to monitor plant reuse water. The system monitors flow, chlorine, turbidity and pH levels. With the use of SCADA on the treatment plants, the county was able to reduce Florida Department of Environmental Protection (FDEP) permit staffing from 24 hours/day to 8 hours/day.

On May 11, 2004, the Board of County Commissioners (BCC) approved SCADA upgrades to handle the additional growth of lift stations at a cost of \$460,000, and again on May 11, 2011, for reuse sites at a cost of \$127,000.

Costs for ongoing operational maintenance and equipment was \$41,169.00 in FY15/16 and \$65,707 for year-to-date FY16/17. This includes \$15,732 in repairs related to Hurricane Matthew. Expenditures to cover the remainder of the year are expected to be \$10,000.

FUNDING:

Funds for the items are available in the Wastewater Collection Renewal and Replacement (R & R) account in the operating fund. Operating fund revenues are derived from water and sewer sales.

Description	Account Number	Amount
Wastewater Collection R & R	47126836-044699	\$10,000.00

RECOMMENDATION:

Staff recommends that the Board of County Commissioners declare Data Flow Systems of Melbourne, Florida, as the sole source provider for equipment, repairs and replacements for Indian River County Department of Utility Services' wastewater collection and transmission SCADA system.

Attachment(s):

Letter from Data Flow Systems regarding TAC II SCADA System