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Department of Utilities
Wastewater Treatment Plant
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TO: Utilities Chairperson Ed Baronowski and members of the Utilities Committee

FROM: Chris Shaw, Utilities Director

DATE: June 15, 2018

RE: *Award SCADA System Improvement Project to Schneider Electric for a cost of \$92,260 with a 10% Contingency of \$9,226*

BACKGROUND:

The Supervisory Control and Data Acquisition (SCADA) system is a plant-wide system that controls and monitors in-plant processes, and external lift stations. The key functions of this integrated system are equipment control, process monitoring, data retrieval, and process and compliance reporting. These functions are essential in maintaining plant operations within the plant's Wisconsin Pollution Discharge Elimination System (WPDES) permit limits. The current software programs are a mix of obsoleted unsupported and manufacturer supported versions. The updated supportable versions of the software component of this system require the purchase of PLC hardware capable of running present day programs.

An additional component of the project is the communication network from the upper to the lower wastewater plant. Increasingly, the reliability of the network is becoming more important as the network consists of a single fiber optic cable. Upgrading hardware, and network components significantly reduces the risk of malfunction or "system crashes".

Standardizing hardware and software also reduce program conflicts which can result in loss of data. This project will benefit the wastewater utility by providing an integrated and supportable system.

QUOTE RESULTS:

A Request for Quote (RRQ) was sent to three companies that provide hardware, software, and perform integrations. The project required hardware including 4 processors, 6 racks, The table below overviews the quoting process.

COMPANY	QUOTE
Allan Integrated Control Systems, Inc	\$ 114,442
Schneider Electric	\$ 92,260
B&M Technical Services, Inc.	DNQ

The quote received from Schneider Electric was the least cost quote. Wastewater staff completed their review and recommends the project award to Schneider Electric.

Available funds for the project are \$158,500 which includes a number of smaller upgrades that we be performed by maintenance staff.

RECOMMENDATION:

It is recommended to Award SCADA System Improvement Project to Schneider Electric for a cost of \$92,260 with a 10% Contingency \$9,226

If you have any questions or require further information regarding this project please contact Chris Shaw at ph: 832-5945.