

Report to Council

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| Report Title: | Well 7 and 9 SCADA System Upgrades | | |
| Prepared By: | Nicholas Schnurr, Director of Operations | | |
| Department: | Utilities - Water | | |
| Date: | November 26, 2024 | | |
| Report Number: | UT2024-15 | File Number: | C11UT |
| Attachments: | Well 7 and 9 Quote Electrical | | |

Recommendation:

That the Council of the Municipality of Brockton hereby receives Report Number UT2024-15 - Well 7 and 9 SCADA System Upgrades, prepared by Nicholas Schnurr, Director of Operations and in doing so approves an exemption to the Purchasing and Procurement Policy related to the acceptance of an electrical quote of \$46,201.89 + HST and additional programming and equipment costs, not to exceed the total overall 2024 budgeted amount of \$135,000.

Report:

Background:

In February 2022, Veolia staff noted a comment from the Ministry of Environment, Conservation and Parks regarding the dated Supervisory Control And Data Acquisition (SCADA) system requiring upgrading. The system was providing inconsistent readings for the UV treatments levels. Veolia and Brockton Staff have been working with Hays Electrical, Schneider Electric, Ideal Supply, ICS Instrumentation and DataSoft Software Solutions since to work out a plausible solution to integrate the existing data system with the required upgrades.

A Design/Build approach was taken, and multiple site meetings were held to coordinate design details, research and timing windows. One of the challenges associated with upgrading is the timing constraints in change over of equipment, resulting in no live communication, requiring operator staff to be present to monitor water quality and equipment performance. Hays Electrical was asked to investigate solutions for the system, as they have performed previous maintenance work on the electrical panels and are familiar with the live reporting system in place. Schneider Electric and Ideal Supply were involved as suppliers familiar with new products and software, making recommendations. ICS Instrumentation and DataSoft Software Solutions provide required SCADA integration and programming expertise. ICS Instrumentation transitioned to retirement, leaving DataSoft as the only contractor able to provide SCADA integration and programming.

Analysis:

Estimated costs associated with engineering this project for tender is in the range of \$50,000. Given the complexity of the water monitoring system that supplies the Town of Walkerton, multiple Design/Build meetings were held over the course of two years. The contractors involved in this process have not charged anything for the design consultation to date.

After an almost two-year search, the SCADA integrator, DataSoft Software Solutions, was the only company able to take on work for Brockton. This work is of the utmost importance for monitoring of water and wastewater control systems. Staff are therefore seeking a procurement policy exemption, due to the high importance of this equipment and given staff were unable to obtain further interest.

Staff have reviewed the preliminary electrical quote attached for completeness and accuracy and are recommending approval to proceed with awarding the work to Hays Electrical in the estimated amount of \$46,201.89+ HST.

Staff are also recommending the SCADA integration, networking, programming and equipment costs, not to exceed the budgeted amount of \$135,000 for all work combined to be provided a procurement policy exemption due to limited source suppliers and the specialized nature of the equipment.

Strategic Action Plan Checklist:

What aspect of the Brockton Strategic Action Plan does the content/recommendations in this report help advance?

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| • Recommendations help move the Municipality closer to its Vision | Yes |
| • Recommendations contribute to achieving Heritage, Culture, and Community | N/A |
| • Recommendations contribute to achieving Quality of Life | Yes |
| • Recommendations contribute to achieving Land Use Planning and the Natural Environment | N/A |
| • Recommendations contribute to achieving Economic Development | Yes |
| • Recommendations contribute to achieving Municipal Governance | Yes |

Financial Impacts/Source of Funding:

- Do the recommendations represent a sound financial investment from a sustainability perspective? Yes

All costs associated with this report are included within the 2024 Utilities – Water Budget.

Reviewed By:



Trish Serratore, Chief Financial Officer

Respectfully Submitted by:

A handwritten signature in black ink, appearing to read "N. Schnurr".

Nicholas Schnurr, Director of Operations

Reviewed By:

A handwritten signature in black ink, appearing to read "Sonya Watson".

Sonya Watson, Chief Administrative Officer