TO:	**CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON JUNE 8, 2016**
FROM:	**JOHN BRAAM, P. Eng. MANAGING DIRECTOR, ENVIRONMENTAL & ENGINEERING SERVICES & CITY ENGINEER**
SUBJECT:	**SINGLE SOURCE AWARD SCADA SYSTEM REPORTING SOFTWARE**

RECOMMENDATION

That, on the recommendation of the Managing Director, Environmental & Engineering Services & City Engineer, the following actions **BE TAKEN** with respect to the purchase of SCADA System Reporting Software:

a) the proposal submitted by Kisters North America, at its proposed price of $145,162 USD, excluding HST, **BE ACCEPTED**, it being noted that this is a single source purchase in accordance with Section 14.4 (d) of the City of London's Procurement of Goods and Services Policy;

(b) the financing for this project **BE APPROVED** as set out in the Sources of Financing Report attached hereto as Appendix "A";

(c) the Mayor and City Clerk **BE AUTHORIZED** to execute any contract or other documents, if required, to give effect to these recommendations.

PREVIOUS REPORTS PERTINENT TO THIS MATTER

None

2015-19 STRATEGIC PLAN

The 2015 – 2019 Strategic Plan identifies this objective under Building a Sustainable City: 1B – Manage and improve our water, wastewater and stormwater infrastructure and services.

BACKGROUND

Purpose:

To award the single source purchase of SCADA system reporting software and first year annual support to Kisters North America. Kister's Wiski7 (Water Information System Kisters) is a leader in data consolidation and centralized reporting for Water Resource management, Water and Wastewater operational data, Water Quality Data including lab data and Sewer flow operational data.

The ability to centralize data management and reporting will facilitate a greater understanding of the interactions between the individual water systems through a common software platform.

The project has been included in the approved 2016 Wastewater & Treatment Capital Works Budgets.

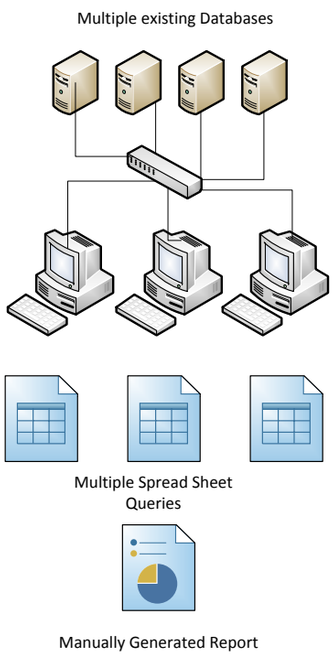
Discussion:

Kisters Wiski7 is the industry standard for many Conservation Authorities across Ontario including the Upper Thames Region Conservation Authority (UTRCA); a common software package will simplify information sharing with the UTRCA. The Ontario Clean Water Agency (OCWA) also uses this software for the reporting requirements of the 180 clients it services. Wiski7 can be used for surface, ground and stormwater management, urban hydrology including sewer and rain data and water/hydro consumption. Various divisions within the City can utilize the software including Wastewater, Water, Water and Drainage Engineering, Solid Waste and Storm water.

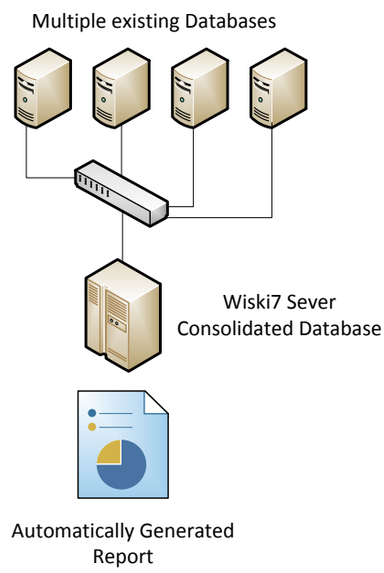
The Wiski7 software can automatically configure internal, external and exported data allowing the production of canned or custom “adhoc” reports using information from several data bases. Wastewater and Water compliance and water quality reports, benchmarking submissions, capacity utilization, development charge studies and wet weather event summaries are typical of the reports that can be generated automatically through the Wiski7 software.

The current method of data analysis involves querying many data bases and parsing the information together in spreadsheets to generate reports and to complete cross system analysis. The current benchmarking initiative takes approximately two weeks of effort to assemble the required information from multiple sources including: hydro/water consumption, chemical usage, flow information and sludge treatment measures. This initiative will be set-up within Wiski7 and be generated automatically. Many other recurring reports require the same level of effort making them conducive to automation.

Current



Future



Wiski7 also easily integrates lab data from various sources including Greenway’s ISO accredited lab and private labs used by both the Water and Wastewater Divisions. Lab data can then be reported against operational measurements and field data for related systems. The compliance reports for both Water and Wastewater will be automated saving considerable time.

Wiski is a complex system and to better understand the benefits a representative pilot system was developed with our staff and Kisters. The pilot allowed automated imports from the City's Wastewater and Water SCADA systems, lab analysis and sewer monitoring data bases. Manual imports of facility information (GPS, addresses, etc.) were also configured. Process reports were then generated using the imported data in a relatively short period of time when compared to the traditional mining of information from several different spreadsheets and data bases. The cost of the pilot was $10,250USD and was not a lost value as we proceed with full implementation.

Conclusions:

Kisters Wiski7 will be the centralized data management and reporting warehouse for all of the above mentioned water systems. The software can save significant time through the automatic generation of regulatory reports for the Ministry of Environment & Climate Change (MOECC) as well as numerous other reports related to the City's Wastewater and water systems. A centralized data platform will also help improve our understanding of the interactions across the City's multiple water systems.

Acknowledgements:

This report was prepared within the Wastewater Treatment Operations Division by Mark Spitzig., Operations Manager and reviewed by purchasing

SUBMITTED BY:	**RECOMMENDED BY:**
GEORDIE GAULD, **DIVISION MANAGER** **WASTEWATER TREATMENT OPERATIONS**	**JOHN LUCAS, P. ENG.** **DIRECTOR, WATER AND WASTEWATER**
CONCURRED BY:	
JOHN BRAAM, P.ENG. **MANAGING DIRECTOR,** **ENVIRONMENTAL & ENGINEERING SERVICES & CITY ENGINEER**	

May 30, 2016
MS/GG
Attach: Appendix "A" – Sources of Financing