TO:	CHAIR AND MEMBERS CIVIC WORKS COMMITTEE
	MEETING ON TUESDAY, FEBRUARY 4, 2020
FROM:	KELLY SCHERR, P.ENG., MBA, FEC MANAGING DIRECTOR, ENVIRONMENTAL & ENGINEERING SERVICES & CITY ENGINEER
SUBJECT:	AWARD OF CONTRACT RFP 19-59: INSTALLATION OF SLUDGE MIXING SYSTEMS AT GREENWAY WASTEWATER TREATMENT PLANT

RECOMMENDATION

That, on the recommendation of the Managing Director of Environmental and Engineering Services & City Engineer, the following actions **BE TAKEN** with respect to the award of a construction contract for the installation of sludge mixing systems at Greenway Wastewater Treatment Plant:

- a) The bid submitted by Dielco Industrial Contractors Ltd., **BE ACCEPTED** in the total amount of \$369,321.58, including contingency, excluding HST;
- b) the financing for the project **BE APPROVED** in accordance with the "Sources of Financing Report" <u>attached</u> hereto as Appendix "A";
- c) the Civic Administration **BE AUTHORIZED** to undertake all the administrative acts that are necessary in connection with this project;
- d) the approvals given herein **BE CONDITIONAL** upon the Corporation entering into a formal contract; and,
- e) 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

Civic Works Committee, January 8, 2019, Item 2.3 – Greenway Sludge Tank Mixing System Pre-Purchase.

Civic Works Committee, October 4, 2016, Item 8 – Infrastructure Canada Phase 1-Project Requests- Clean Water and Wastewater Fund.

2019-2023 STRATEGIC PLAN

Strategic Plan

This project supports the 2019-2023 Strategic Plan through the following: Building a Sustainable City, Build infrastructure to support future development and protect the environment.

BACKGROUND

Purpose

The purpose of this report is to seek Council approval to award a contract for the

installation of hydraulic mixing systems in the sludge storage tanks at Greenway Wastewater Treatment Plant. These mixing systems were previously purchased.

Context

Thickened sludge at the Greenway Wastewater Treatment Plant is stored in two aboveground storage tanks. The contents of these tanks require constant mixing. Hydraulic mixing is an upgrade intended to improve mixing and reliability, reducing operational costs.

DISCUSSION

As previously reported to Council, solids handling operations at the City's wastewater treatment plants take waste activated sludge and thicken it from approximately 0.5% solids to over 5% solids by removing a portion of the water. This thickened sludge is stored in above-ground tanks at Greenway WWTP prior to dewatering by centrifuges and subsequent incineration.

Sufficient mixing of the thickened sludge is important for the performance of the centrifuges and the incinerator, since a consistent feedstock for those processes enables better fine-tuning of polymer addition (for dewatering) and temperature control (for incineration). This reduces overall operational cost and improves performance. Sufficient mixing also ensures that solids deposition in the tanks is minimized, reducing downtime and maintenance requirements.

Solids management at the City's plants and pumping stations was one of many Canadian Water and Wastewater Fund (CWWF) projects proposed and approved. This allows the City to purchase and install these important upgrades at a significantly reduced cost.

With the pre-purchase and delivery of two new hydraulic mixing systems now complete, the City requires an industrial contractor to undertake the installation.

Procurement Process

A Request for Proposal (RFP): RFP19-59 was issued by the City. Three contracting companies submitted proposals as follows:

- BGL Contractors Corp.
- Dielco Industrial Contractors Ltd.
- JMR Electric Ltd.

The submissions were reviewed by staff from Wastewater Treatment Operations and Purchasing and Supply to ensure compliance with the City's Procurement of Goods and Services Policy. All proposals met the City's requirements for submission acceptance, and were evaluated via a weighted scoring system by the review team. The proposal from Dielco Industrial Contractors Ltd. scored the highest based on this scoring system and offered the best overall value to the City. City staff then undertook a Best and Final Offer process with Dielco to refine the work plan and arrive at a final agreed price and scope of work.

Project Schedule and Budget Implications

The installation of the mixing systems must be complete by the end of March in order to take advantage of the remaining CWWF funding. This installation contract will be funded through a combination of CWWF- and rate-supported capital budgets.

CONCLUSIONS

Dielco Industrial Contractors Ltd. received the highest score through the RFP selection process for RFP19-59. Dielco regularly competes work of a similar nature for the City and demonstrated a good understanding of the project in their proposal. It is recommended that Dielco Industrial Contractors Ltd. be awarded the contract for installation of hydraulic sludge mixing systems at Greenway Wastewater Treatment Plant.

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PREPARED BY:	REVIEWED BY:
GEORDIE GAULD DIVISION MANAGER WASTEWATER TREATMENT	SCOTT MATHERS, MPA, P.ENG. DIRECTOR WATER AND WASTEWATER
OPERATIONS	
RECOMMENDED BY:	
KELLY SCHERR, P.ENG., MBA, FEC MANAGING DIRECTOR ENVIRONMENTAL & ENGINEERING SERVICES & CITY ENGINEER	

Attachment: Appendix "A" Sources of Financing

cc: John Freeman, Purchasing and Supply

Kirby Oudekerk, WTO Alan Dunbar, FP&P Jason Davies, FP&P

Chris Ginty, Procurement Officer

Dave Goyette, Dielco Industrial Contractors Ltd.

Chair and Members Civic Works Committee February 4, 2020 (Award Contract)

RE: RFP 19-59: Installation of Sludge Mixing Systems at Greenway Wastewater Treatment Plant (Subledger FS19GW01)

Capital Project ES3080 - Greenway Incinerator Refurbishment

Capital Project ES5086 - Solids & Floatables Management Equipment at 8 Locations

Dielco Industrial Contractors Ltd. - \$369,321.58 (excluding H.S.T.)

FINANCE & CORPORATE SERVICES REPORT ON THE SOURCES OF FINANCING:

Finance & Corporate Services confirms that the cost of this project can be accommodated within the financing available for it in the Capital Works Budget and that, subject to the adoption of the recommendations of the Managing Director, Environmental & Engineering Services & City Engineer, the detailed source of financing for this project is:

SUMMARY OF ESTIMATED EXPENDITURES	Approved Budget	Committed to Date	This Submission	Balance for Future Work
ES3080-Greenway Incinerator Refurbishment	Buagot	to Buto	Cabinicolon	Tuturo Work
Engineering	\$613,323	\$613,323		\$0
Construction	5,424,526	5,424,526		0
City Related Expenses	601,130	601,130		0
Additional Vehicle & Equipment	1,079,151	670,797	332,999	75,355
	7,718,130	7,309,776	332,999	75,355
ES5086-Solids & Floatables Management				
Equipment at 8 Locations				
Engineering	280,314	280,314		0
Construction	618,010	618,010		0
City Related Expenses	990	990		0
Replace Vehicles & Equipment	1,318,686	1,275,863	42,823	0
	2,218,000	2,175,177	42,823	0
NET ESTIMATED EXPENDITURES	\$9,936,130	\$9,484,953	\$375,822 1)	\$75,355
SUMMARY OF FINANCING:				
ES3080-Greenway Incinerator Refurbishment				
Capital Sewer Rates	\$543,000	\$543,000		\$0
Debenture By-law No. W5590-307	1,812,530	1,404,176	332,999	75,355
Drawdown from Sewage Works Reserve Fund	5,362,600	5,362,600	002,000	0
	7,718,130	7,309,776	332,999	75,355
ES5086-Solids & Floatables Management	, -,	, ,	,	7,
Equipment at 8 Locations				
Drawdown from Sewage Works Reserve Fund	554,500	543,794	10,706	0
Clean Water and Wastewater Fund	1,663,500	1,631,383	32,117	0
	2,218,000	2,175,177	42,823	0
TOTAL FINANCING	\$9,936,130	\$9,484,953	\$375,822	\$75,355
Financial Note:	ES3080	ES5086	Total	
Contract Price	\$327,240	\$42,082	\$369,322	
Add: HST @13%	42,541	5,471	48,012	
Total Contract Price Including Taxes	369,781	47,553	417,334	
Less: HST Rebate	36,782	4,730	41,512	
Net Contract Price	\$332,999	\$42,823	\$375,822	

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