

The Corporation of the City of Kawartha Lakes

Council Report

Report Number PUR2017-010

Date: February 7, 2017
Time: 2:00 p.m.
Place: Council Chambers

Ward Community Identifier: 11

Subject: Tender 2017-14-CT – Replacement of Filter Media
at the Lindsay Water Treatment Plant in the Town of Lindsay

Author: Debbie Ball, Buyer

Signature: 

Co-Author: Amber Hayter

Signature:  FOR A. HAYTER

Supervisor Water/Wastewater Operations

Recommendation(s):

RESOLVED THAT Report PUR2017-010, **Tender 2017-14-CT Replacement of Filter Media at the Lindsay Water Treatment Plant in the Town of Lindsay**, be received;

THAT Continental Carbon Group Inc. of Stoney Creek be selected for the award of Tender 2017-14-CT – Replacement of Filter Media at the Lindsay Water Treatment Plant in the Town of Lindsay for the tender price of \$255,420.00 plus HST;



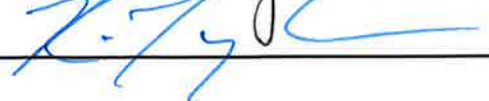
THAT subject to receipt of the required documents, the Mayor and Clerk be authorized to execute the agreement to award Tender 2017-14-CT; and

THAT Purchasing Division be authorized to issue a purchase order.

Department Head:

Corporate Services Director / Other:

Chief Administrative Officer:

Background:

As part of the filtration process at the Lindsay Water Treatment Plant, there are five dual media filters of sand and Granular Activated Carbon (GAC). Below the media is an underdrain/air scour system that is utilized for backwashing of the filters. Over time the GAC becomes spent and requires replacement. The sand and GAC also become more mixed and lose the distinct layering that is required. Some media is also lost into the wastewater from the backwashing process.

Granular Activated Carbon (GAC) is used as filter media to adsorb natural organic compounds, taste and odour compounds, and synthetic organic chemicals in drinking water. GAC is effective at adsorbing these compounds as it has a large surface area. The life expectancy of GAC is typically 3 – 4 years as the surface area begins to decrease and it becomes less effective at removing taste and odour compounds. Iodine tests are completed regularly to determine the surface area of the carbon particle available for adsorption.

The media at the Lindsay Water Treatment Plant was last replaced in 2012, and after recent testing of the GAC it has been determined that the effectiveness has decreased and requires replacing. The filters have also been experiencing a decrease in operating efficiency with decreased filter run times between backwashing, reduction in taste and odour removal and increased air binding.

This project includes the removal and disposal of the existing filter media in all five filters and the replacement with new filter sand and virgin Granular Activated Carbon. The project also includes an inspection of the underdrain/air scour system that is used to perform backwashing. This inspection will ensure that the system is operating properly and identify any repairs that may be required.

Tender 2017-14-CT was prepared and advertised in accordance with the Purchasing Policy.

Tender 2017-14-CT closed on Thursday, January 26, 2017 and was opened in public by Councillor Pat Dunn and Debbie Ball, Buyer.

Results of Opening:

Tender Received From	Total Tender Amount (including HST) As Read at the Public Opening
Continental Carbon Group	\$288,624.60
Carbon Activated Corp.	\$401,867.59

An irregular result occurred, in that fewer than three tenders were received.

Both tenders were compliant to the tender's requirements. Reference checks were conducted with no issues identified.

Rationale:

Staff recommends the award to the lowest, compliant tender received from Continental Carbon Group Inc. of Stoney Creek, Tender 2017-14-CT– Replacement of Filter Media at the Lindsay Water Treatment Plant in the Town of Lindsay at the tender price of \$255,420.00 plus HST.

Other Alternatives Considered:

No other alternative is being considered based on the fact that a competitive procurement process was followed, the lowest compliant tender is being recommended and results are within available budget.

Financial Considerations:

Funds for the replacement of the Filter Media at LWTP as approved in the 2017 Water and Wastewater Capital Budget are noted in the table below.

Capital Project	Capital Project Budget	Other Committed Funds	Capital Project Balance	Tender Amount (incl. HST)	HST Rebate	10% Contingency	Total Tender Cost	Remaining Budget
998170401	\$465,000	\$0.00	\$465,000	\$288,625	(\$27,709)	\$25,542	\$286,458	\$178,542

This award also includes underdrain inspection only possible with the media removed. If additional work is required on the underdrains, it will be awarded as a change order or additional contract compliant with the City's Purchasing Policy.

Water and wastewater capital projects do not close with a surplus, only the amount required is funded based on costs incurred. Therefore these projects will close with a zero balance in the capital close report as provided by the Treasury Division.

Relationship of Recommendation(s) To The 2016-2019 Strategic Plan:

Tender 2017-14-CT – Replacement of Filter Media at the Lindsay Water Treatment Plant in the Town of Lindsay aligns with the Corporate Strategic Goals "A Vibrant and Growing Economy", "An Exceptional Quality of Life", and "A Healthy Environment".

This Water/Wastewater Capital Project directly aligns with these strategic goals by:

- Enabling efficient infrastructure and asset management; and
- Protecting and enhancing water quality.

Review of Accessibility Implications of Any Development or Policy:

Not applicable.

Servicing Comments:

Replacement of the media is necessary to ensure the Lindsay Water Treatment Plant can produce safe drinking water in accordance with the Safe Drinking Water Act.

Consultations:

Laurie Lawder, Financial Coordinator, Public Works and Community Services

Attachments:

Not applicable.

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Department Head:	Bryan Robinson, Director Public Works
Department File:	Tender 2017-14-CT