



Staff Report

Report Title: Street Sweeper RFQ

Prepared By: John Yungblut, Director of Public Works

Department: Public Works

Date: Sep. 18, 2023

Report Number: PW-2023-09-46

File Number: C11 PW 23

Attachments: Elgin Whirlwind 1 Brochure, Elgin Whirlwind 1 Quote, Scarab Maven 65 Brochure, Scarab Maven 65 Demo Quote

Recommendation:

THAT the Township of Huron-Kinloss Committee of the Whole hereby receives for information Report Number PW-2023-09-46, prepared by John Yungblut, Director of Public Works;

AND accepts the quotation from Cubex Limited in the amount of \$424,731.50 plus HST for the purchase of one (1) Scarab Maven 65 demo street sweeper;

AND FURTHER authorizes the appropriate by-law comes forward on tonight's agenda.

Background:

In 2022, our 1995 Johnson mechanical street sweeper broke down as a result of a blown head gasket and upon investigation, Township staff have determined that the machine is not worth repairing.

During the process of investigating options for replacing our street sweeper, we were able to secure funding from NWMO through their Near Term Investment program, which would allow for the purchase of a new machine.

After investigating the advantages and disadvantages of mechanical sweepers compared to vacuum street sweepers, Township staff decided to pursue the purchase of a vacuum street sweeper.

The main reason we chose a vacuum sweeper is its versatility. While a mechanical sweeper will likely only be used for 6-8 weeks each year, the vacuum sweeper is equipped with a vacuum hose and pressure washer wand that can be used to

perform other tasks such as the cleaning of catch basin and water valve box cleaning, the daylighting of buried utilities and the excavation of small holes.

The main disadvantages of vacuum sweepers are that they are not able to collect heavy debris as quickly as a mechanical sweepers and there is potential for increased maintenance costs when the vacuum system is used for other tasks. Township staff are confident that the cost savings in having to hire a hydro vac less often will offset any additional maintenance costs.

Township staff received bids for two vacuum street sweepers through the Canoe group buying program.

Bidder	Model	Price (not incl. HST)
Joe Johnson Equipment	Elgin Whirlwind 1 (Freightliner M2 chassis)	\$488,752.51
Cubex Limited	Scarab Maven 65 Demo (Freightliner M2 chassis)	\$424,731.50

Township staff have been working to get pricing on a new Maven 65 truck built to our exact specifications, however, Cubex is having issues securing orders for the Freightliner chassis. The demo unit quoted is to be built on a Freightliner chassis that has been ordered and the truck is expected to be built in December 2023. While there are some minor changes to the vacuum system that we will be making, overall, the truck will suit our needs very well. The demo sweeper will be used at trade shows in 2024 and will be delivered to the Township in July 2024.

Cubex has also informed Township staff that they are pursuing chassis from other manufacturers, and we have been told that we can switch our order for a brand new truck if we choose to do so. Staff will continue discussions with Cubex and bring back another report to Council if we decide to purchase a different sweeper. The main issue will be ensuring delivery by the end of 2024.

Discussion:

With the firm deadline for the NWMO Near Term Investment funding of Dec. 31, 2024, Township staff are growing concerned that we may not be able to get a sweeper delivered by this date unless we ordered now.

Cubex has recently indicated to Township staff they are working to secure a shipment of Peterbilt chassis that would arrive in the first quarter of 2024, but would come at an increased cost. We have been assured that if we chose to purchase a sweeper on a different chassis, Cubex would cancel our order for the demo unit and allow us to purchase a brand new truck.

Township staff have had the opportunity to test drive both the Whirlwind and Maven models and we prefer the Maven 65 truck. It appears to be a better quality vehicle and the controls are simpler compared to the Whirlwind 1. The Maven 65 is also a dual engine model and the Whirlwind 1 is a single engine with a variable speed device (VSD), which is relatively new technology, so we don't know how it will perform over the long term compared to the dual engine design which has a good track record of reliability.

The Maven 65 comes with a two year warranty and the Whirlwind 1 comes with a one year warranty, except for the VSD engine, which has a three year warranty.

The Canoe group buying program partners with vendors to provide members with competitive procurement pricing without having to undertake the tendering process.

Financial Impacts:

The 2023 Capital Budget allocated \$500,000 for the purchase of a new street sweeper with the NWMO is contributing \$375,000 through the NTI program.

Strategic Alignment / Link:

We are an accessible community by being open and transparent.

Respectfully Submitted By:

John Yungblut, Director of Public Works, C.E.T.

Approved By:

Mary Rose Walden, Chief Administrative Officer