



Takoma Park City Council Meeting – September 8, 2021

Agenda Item 4

Work Session

Single Reading Ordinance Authorizing Purchase of an Electric Street Sweeper

Recommended Council Action

Discuss purchase and review ordinance.

Context with Key Issues

The Fiscal Year 2022 budget includes \$546,000 for the purchase of a replacement street sweeper with an electric engine. The current street sweeper, purchased in 2010, is diesel powered and has exceeded its useful life. The City's program for street sweeping includes a goal of twice a month sweeping on every city street between March and October. Additionally, the City sweeps streets after major snow events when weather permits to assist with removal of salt and sand. These efforts are a component of our stormwater management program and assist the City in meeting water quality treatment goals.

Using an EV sweeper instead of a diesel powered one will result in a fuel reduction of 700 gallons per year - about \$1,800. The GHG reductions are estimated to be about 3%. (The entire City fleet is projected to generate 210 MTCO₂/year and the diesel sweeper represents about 6.7 MTCO₂.)

The Department investigated numerous options for the replacement sweeper and identified two vendors that currently provide electric versions. The quoted prices are as follows:

Elliot and Frantz – M4 Global Environmental Products	\$562,522
Atlantic Machinery, Inc. – Ravo 5	\$499,970

The bid from Atlantic Machinery is considered responsive and responsible.

Council Priority

Environmentally Sustainable Community
Engaged, Responsive and Service-Oriented Government

Environmental Considerations

As noted above, an EV sweeper will modestly reduce annual fuel use by 700 gallons and the equivalent greenhouse gas emissions by 6%. The refueling of the EV sweeper will be done with renewable electricity as the City purchases 100% renewable electricity for all municipal operations through a combination of solar power generated on-site and the purchase of renewable energy credits. Additionally, the traditional diesel-powered sweeper engine is quite loud whereas the electric engine is comparatively quiet. Both types use water to suppress dust from the sweeper operation, but the new model is better equipped to more effectively control dust through improved technology.

Fiscal Considerations

Funding for this purchase is allocated in the FY22 capital budget, split equally between the Equipment Replacement Reserve and the Stormwater Capital budget.

Racial Equity Considerations

The purchase and use of this equipment will not adversely affect or disproportionately impact any particular group.

Attachments and Links

Single Reading Ordinance

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Introduced by:

Single Reading Ordinance

**CITY OF TAKOMA PARK, MARYLAND
ORDINANCE NO. 2021-**

AUTHORIZATION TO PURCHASE AN ELECTRIC POWERED STREET SWEEPER

WHEREAS, in accordance with the City procurement procedures, the Public Works Department solicited price proposals for purchase of an electric powered street sweeper; and

WHEREAS, funds for this purchase are included in the Equipment Replacement Reserve and Stormwater Capital Budget, with the expenditure to be equally split between the two; and

WHEREAS, Atlantic Machinery, Inc. provided the lowest bid.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF TAKOMA PARK, MARYLAND, THAT:

Section 1. The City Manager or their designee is authorized to enter into a contract with Atlantic Machinery, Inc. for the purchase of a replacement street sweeper in the amount of Four Hundred Ninety-Nine Thousand, Nine Hundred Seventy Dollars (\$499,970).

Section 2. This Ordinance shall become effective upon adoption.

Adopted this ____ day of September, 2021 by roll-call vote as follows:

AYE:

NAY:

ABSTAIN:

ABSENT: