



Agenda Item: 10.C
Date of Meeting: November 27, 2023
Department: Public Works

STAFF REPORT

To: City Council
From: Nora Gamino
Subject: **Capital Equipment Replacement, Vacuum Truck**
Prepared On: November 20, 2023
Attachments: Vactor Impact Brochure
Vactor Impact Quote

Background/History:

The vacuum truck is one of the most critical pieces of equipment that the Public Works Department uses. The equipment is used across all aspects of public works, including the streets, water, and sewer programs, performing tasks such as: cleaning sewer mains and manholes, clearing plugged sewer mains, cleaning storm drains and drop inlets, cleaning storm water interceptors, clearing plugged curb drains, excavation of water and sewer lines for emergency repairs, vacuuming debris from the wet well, grit channel, clarifier sludge sumps, and culvert vaults between ponds at the WWTP, providing construction water for backfill compaction and jobsite clean up, washing solar panels, and washing thermoplastic roadway markings. On average, the equipment is deployed between 3-4 times per week.

The current vacuum truck, a VacCon model 4300, has the following problems and limitations: requires very high engine RPM's in order to perform as needed, as a result it is very loud causing a safety concern, it is not four wheel drive, there is no engine break for traveling on steep grades such as returning from the community Aspendell, and it has developed multiple oil leaks. Despite regular maintenance and servicing, the equipment is starting to fail. The frequency and cost of repairs has accelerated over recent years. Most components have been repaired or replaced due to wear. For example, it is currently out of service because it is at the mechanic shop for engine repairs. The department is expecting that more major repairs will be needed in the coming years. As a proactive approach, a replacement is being sought prior to a major failure.

Analysis/Discussion:

The Public Works Department's vacuum truck specifications include a relatively smaller truck that can fit into City alleys and other tighter space, does not require a commercial license to operate, can maneuver in tight spaces, quiet engine design, four wheel drive, low maintenance water pump, remotely controlled hose reel, boom and emergency stop with wireless controls, six strobe lights for safety, hydro-excavation abilities, work lights on hose

reel, boom, and debris tank for safety, positive displacement vacuum, 40 gallon per minute/ 2,500 pounds per square inch jet rodder pump, and a 500 foot by ¾ inch, 2,500 pounds per square inch sewer hose reel capacity.

The City worked with Haaker Equipment Company to receive a quote for a model that meets these specifications. The lead time for equipment delivery is 12-14 months after approval of the purchase order. There is no payment due at the time of approval of the purchase order. In anticipation of this capital equipment replacement, the City set aside \$300,000 in this current fiscal year's budget, split evenly between three funds: streets, water, and sewer. An additional \$50,000 per fund (\$150,000 total) will be budgeted in fiscal year 2024 – 2025 to cover the remaining cost.

Public Works reached out to other companies who supply vacuum trucks. These other companies either could not provide equipment that met the specifications, or they were non-responsive to our requests.

Economic Impacts:

None.

Budget Impacts:

No impacts to this fiscal year. Operating transfers out from the General Fund (Streets), the Sewer Fund and the Water Fund in the amount of \$50,000 each will be proposed within the FY 2024-2025 budget. Each transfer out listed above would be transferred into the capital reserve fund for heavy equipment replacement. The Heavy Equipment Replacement Fund currently maintains a \$300,000 balance and the planned transfers in would increase the fund balance to \$450,000 and allow for the purchase of the Vacuum Truck within the fund.

Legal Review:

City Attorney Pucci has reviewed this item and finds that the recommended action complies with the law.

Recommended Action:

Council to approve the Purchase Order for a new Vactor iMPACT Truck from Haaker Equipment Company through the Sourcewell Cooperative Purchasing Agreement in a not-to-exceed amount of \$449,232.11.

Approved By: Ethan Aukee 11/21/2023

Approved By: Robin Picken 11/21/2023

Approved By: Dean Pucci 11/22/2023

Approved By: Deston Dishion 11/22/2023