



Office of the City Manager

CONSENT CALENDAR  
September 15, 2020

To: Honorable Mayor and Members of the City Council

From: Dee Williams-Ridley, City Manager

Submitted by: Liam Garland, Director, Department of Public Works

Subject: Purchase Order: TYMCO, Inc. For One (1) Model 435 Regenerative Air Sweeper

RECOMMENDATION

Adopt a Resolution satisfying requirements of City Charter Article XI Section 67.2 allowing the City to participate in HGACBuy contract bid procedures, and authorizing the City Manager to execute a purchase order for one (1) TYMCO model 435 Regenerative Air Sweeper in an amount not to exceed \$165,000.

FISCAL IMPACTS OF RECOMMENDATION

The purchase of one (1) model 435 Regenerative Air Sweeper will not exceed \$165,000 including CA tire fees and sales tax. Funding for this purchase is subject to appropriation in the First Amendment to the FY 2021 Annual Appropriations Ordinance (AAO1) in Zero Waste Fund (601) budget (601-54-627-734-3023-000-473-664120).

CURRENT SITUATION AND ITS EFFECTS

The City of Berkeley Solid Waste Management Center and Transfer Station, located at 1201 Second Street, is subject to Federal regulations (40 CFR 122.26(b)(14)(i)-(xi)) requiring compliance with the National Pollution Discharge Elimination System Permit for Stormwater Discharge related to Industrial Activities. To ensure compliance with this Permit and prevent pollutants from reaching the waters of the Bay, Transfer Station staff are required to sweep the 7.45 acre site daily. This new Regenerative Air Sweeper (Sweeper) will work well for removing suspended solids (dirt) which in turn will assist the removal of heavy metal materials, such as, copper, zinc, etc. This Sweeper will employ a blast and suction (vacuum) effect, which has proven more effective in cleaning the Transfer Station's paved areas. The regenerative sweeper's blast force is able to reach and clean the entire area the sweeper is trying to cover, thus effectively reducing contaminants (dirt, etc.) entering storm drain system. In addition, this Sweeper runs on renewable diesel fuel, designed to reduce greenhouse gas emissions by up to 80%.

Approval of this item will further the Strategic Plan goal of providing state-of-the-art, well-maintained infrastructure, amenities, and facilities and being a global leader in addressing climate change and protecting the environment. In addition, approval of this item will further implementation of the following plans either adopted or accepted by the

City Council: 2020 Municipal Fleet Electrification Assessment, 2019 Green Infrastructure Plan, 2011 Watershed Master Plan, and 2009 Climate Action Plan.

**BACKGROUND**

If a purchase request exceeds \$25,000, the Department of Finance, General Services Division solicits bids or “piggybacks” off competitively bid contracts to ensure the City’s departments receive the best pricing.

Since 2008, the City of Berkeley has been a no-cost member of the Houston-Galveston Area Council (HGACBuy), a Cooperative Purchasing Program that has offered inter-local purchasing. HGACBuy provides procurement services that make the government procurement process more efficient by establishing competitively priced contracts for goods and services made available to local governments nationwide.

Products and services offered through HGACBuy have been subjected to a public competitive bid process. On September 8, 2019 HGACBuy released an Invitation to Submit a Competitive Bid No. SW04-20 for Sweeping Equipment. This solicitation was nationally advertised for eighty-nine days. Ten bids were submitted and reviewed by the Houston-Galveston Area Council staff who selected TYMCO, Inc. as one of the most responsive and responsible proposers to meet the specifications, thusly awarding Contract No. SW04-20 to TYMCO, Inc.

HGACBuy charges an order processing fee for each sale successfully completed through their contract. For this purchase a flat fee charge of 1.5% will be paid directly to HGACBuy by TYMCO, Inc. and the cost will not be passed on to the City.

**ENVIRONMENTAL SUSTAINABILITY**

The new TYMCO 435 Regenerative Air Sweeper will be powered by renewable diesel fuel designed to reduce greenhouse gas emissions by up to 80%.

Consistent with the City Council’s recently accepted *Municipal Fleet Electrification Assessment*, Public Works conducted extensive research to determine the availability of a comparable electric version of a regenerative air sweeper. Staff queried top manufacturers’ representatives and the findings are presented as follows:

| Distributor  | Response   |
|--|--|
| Municipal Maintenance Equipment (MME)<br>– Schwartz & Ravo Sweepers. | No Regenerative Air Sweeper available at this time.<br>Ravo Brand is a mechanical EV Sweeper but cannot be equipped with Air Regeneration. |
| GCS Environmental Equipment Service -<br>TYMCO Sweepers              | No EV Version available at this time.  |
| Owen Equipment – Elgin Sweeper                                       | No EV Version available at this time.  |

|                               |   |
|-------------------------------|---|
| Global Environmental Products | EV Version available in Mechanical Sweeper. No Regenerative Air Available at this time. |
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Additional in-depth research and discussions with these representative revealed that the blower unit for a regenerative air vehicles will require enormous amounts of energy which is not possible in today's EV Versions.

RATIONALE FOR RECOMMENDATION

Equipment is needed to reduce the amount of contaminants (suspended solids, metals, etc.) to support compliance with the Permit and protect against these contaminants from reaching the Bay via storm water discharged from the Transfer Station.

ALTERNATIVE ACTIONS CONSIDERED

None. The Regenerative Air System is designed to remove finer debris from hard to reach surface and subsurface areas.

CONTACT PERSON

Greg Ellington, Superintendent, Public Works Maintenance, (510) 981-6469

Attachment:

1: Resolution

RESOLUTION NO. ##,###-N.S.

TYMCO, INC. FOR ONE (1) MODEL 435 REGENERATIVE AIR SWEEPER

WHEREAS, one (1) model TYMCO 435 Regenerative Air Sweeper is needed by the City of Berkeley Solid Waste Management Center and Transfer Station to be used for daily sweeping the site including picking up finer, hard-to-reach stormwater contaminants; and

WHEREAS, equipment must be procured based upon the need of the department to efficiently and effectively carry out their duties, and support regulatory requirements; and

WHEREAS, Charter section 67.2 allows the City to purchase goods without undergoing a competitive bid process if the City uses pricing obtained by another entity through a competitive bid process; and

WHEREAS, on September 8, 2019 HGACBuy released an Invitation to Submit a Competitive Bid, No. SW04-20 for Sweeping Equipment. The solicitation was released for approximately eighty-nine days and ten bids were submitted. Upon their review HGACBuy selected TYMCO, Inc. as the best most responsive bidder to meet the specifications, thusly awarding Contract No. SW04-20; and

WHEREAS, funds in the amount of \$165,000 will be appropriated in the First Amendment to the FY 2021 Annual Appropriations Ordinance in the FY 2021 Zero Waste Fund (601) Account Code 601-54-627-734-3023-000-473-664120; and

NOW THEREFORE, BE IT RESOLVED by the Council of the City of Berkeley that the City Manager is authorized to execute a purchase order for one (1) TYMCO 435 Regenerative Air Sweeper in an amount not to exceed \$165,000.