



COMMISSION FILE NO: 18-007-1 **DATE INTRODUCED:** January 8, 2018

INTRODUCED BY: Executive Director (Signature on File in the Office of the Commission)

REFERRED BY COMMISSION CHAIRPERSON TO: Operations Committee

RELATING TO: Amendment No.1, Purchase Order No. 9382, Material Capital Repair or Replacement No. 973, South Shore Water Reclamation Facility Effluent Pump #1 Repairs

SUMMARY:

The Commission is requested to authorize the Executive Director to execute Amendment No. 1 to Purchase Order No. 9382, Material Capital Repair or Replacement (MCRR) No. 973, South Shore Water Reclamation Facility (SSWRF) Effluent Pump #1 Repairs, with Veolia Water Milwaukee, LLC, (VWM) in an amount not to exceed \$47,069.

With high lake levels and during high flow conditions, it is necessary to operate effluent pumps at SSWRF to discharge treated effluent to Lake Michigan. Five 75-million-gallon-per-day (MGD) effluent pumps are normally available to meet the plant treatment capacity of 300 MGD, with one pump being redundant. If one pump is out of service, there is no redundancy in the effluent pumping system, and, if more than one pump is out of service, the treatment capacity of SSWRF is reduced. Effluent Pump #1 is 31 years old, and wear of several of its components is causing the pump to vibrate excessively. It is believed that the pump has a reduced pumping capacity, and it could fail if continued to operate with excessive vibrations.

The purpose of this project is to repair the worn pump components to restore the pump to its design capacity and to prevent further damage to the pump. Having full functionality of Effluent Pump #1 will maintain SSWRF's effluent pump system design capacity and redundancy.

VWM competitively bid the original scope of work, which consisted of recoating pump internal surfaces, repairing the impeller, gear drive, and motor, and replacing oil, seals, and bearings.

ATTACHMENTS: **BACKGROUND** **KEY ISSUES** **RESOLUTION**
FISCAL NOTE **S/W/MBE** **OTHER** _____

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COMMITTEE ACTION: _____ **DATE:** _____

COMMISSION ACTION: _____ **DATE:** _____

SUMMARY (Cont'd)

Amendment No.1, Purchase Order No. 9382, Material Capital Repair or Replacement
No. 973 South Shore Water Reclamation Facility Effluent Pump #1 Repairs

Butters Fetting Co. (Butters) was the lowest responsible and responsive bidder, with three bids received. The District issued the original purchase order to VWM, which is responsible for contracting, managing, and overseeing the construction contract with Butters.

Butters removed and disassembled the pump to execute the original repairs. After disassembly, additional deficiencies were identified and subsequently reviewed by District staff and VWM. These deficiencies include additional corrosion beyond that originally identified, a worn bearing journal, and a bent line shaft.

Staff recommends performing additional repairs to address the deficiencies identified. This includes welding corroded areas, installing a new stainless steel bowl liner, reinforcing bearing bores and journals, and straightening the line shaft.

Butters submitted a quote for the proposed additional scope of work. District and VWM staff reviewed this quote and found it fair and reasonable.

PURCHASE ORDER COST CHANGES

PURCHASE ORDER	AMOUNT	AUTHORIZED BY
Original	\$106,105	Executive Director
Amendment No. 1	\$47,069	Request of Commission
TOTAL	\$153,174	

Consistent with the Agreement for Management, Operations, and Maintenance Services between the District and VWM, VWM will make a \$10,000 contribution to the District for this MCRR.

RESOLUTION

Amendment No.1, Purchase Order No. 9382, Material Capital Repair or Replacement No. 973, South Shore Water Reclamation Facility Effluent Pump #1 Repairs

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that the Executive Director is authorized to execute Amendment No. 1 to Purchase Order No. 9382, Material Capital Repair or Replacement No. 973, South Shore Water Reclamation Facility Effluent Pump #1 Repairs, with Veolia Water Milwaukee, LLC, in an amount not to exceed \$47,069.