

COMMISSION FILE NO: 25-119-9 **DATE INTRODUCED:** September 8, 2025

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

REFERRED BY COMMISSION CHAIRPERSON TO: Operations Committee

RELATING TO: Material Capital Repair or Replacement 1658, 12 Dryer Recycle Feed Screw Conveyor Replacements, Project J06087

SUMMARY:

The Commission is requested to authorize the Executive Director to execute on behalf of the District a purchase order with Veolia Water Milwaukee, LLC, (VWM) for Material Capital Repair or Replacement (MCRR) 1658, 12 Dryer Recycle Feed Screw Conveyor Replacements, Project J06087, in an amount not to exceed \$1,293,977.

Biosolids are removed from both the Jones Island and South Shore Water Reclamation Facilities and processed into Milorganite® in the Dewatering & Drying (D&D) Facility. The District's D&D Facility utilizes 24 belt filter presses to dewater the sludge and then 12 rotary drum dryers to heat dry the sludge. After heat drying, the product is either recycled within the drying process or sent to the classification equipment for sizing, milling, cooling, and storage (producing Milorganite®). An extensive series of screw conveyors, belt conveyors, bucket elevators, and ladder chutes convey the heat dried product through these processes.

The screw conveyors move product horizontally and come in various lengths and diameters based on the process design capacity. Inside each screw conveyor trough (or housing), augers rotate slowly to move the product from the inlet end to the discharge end of each conveyor.

Twelve Dryer Recycle Feed Screw (DRFS) Conveyors (12-foot-long with nine-inch diameter augers) recycle heat dried product to each individual dryer. Specific amounts of recycled material are necessary in mixing with the wet cake feed to establish proper bead size and to control and maximize dryer loading.

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

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COMMITTEE ACTION: _____ **DATE:** _____

COMMISSION ACTION: _____ **DATE:** _____

SUMMARY (Cont'd)

Material Capital Repair or Replacement 1658, 12 Dryer Recycle Feed Screw Conveyor Replacements, Project J06087

The DRFS troughs have deteriorated due to the abrasive and corrosive nature of the heat dried product. Because of this, numerous holes have developed along the walls of all 12 DRFS conveyor troughs, allowing product to spill to the floor, creating daily housekeeping issues and safety concerns. Over the last two years, VWM and contractors have installed large, u-shaped trough section patches on six of the 12 DRFS conveyors to cover the holes and reinforce the trough; however, the trough steel walls are thinning such that patching is no longer an option, and trough integrity continues to be compromised. To maintain efficient biosolids processing capacity and to maintain a safe work environment, staff recommend replacing all 12 DRFS conveyors.

VWM prepared a bid package and publicly bid a contract to replace all 12 DRFS conveyors. Doral Corporation (Doral) submitted the lowest responsible and responsive bid of two bids received. The purchase order will be issued to VWM, which is responsible for managing and overseeing the contract with Doral.

Under this purchase order, Doral will replace all 12 Dryer Recycle Feed Screw conveyors with the following design enhancements:

- Stainless steel troughs and covers to reduce corrosion deterioration.
- Hard facing material on the auger pipes and flights, troughs, trough end plates, and chutes to reduce abrasion deterioration.

The duration of this contract is 189 days; however, the replacement schedule is highly dependent on dryer availability.

RESOLUTION

Material Capital Repair or Replacement 1658, 12 Dryer Recycle Feed Screw Conveyor Replacements, Project J06087

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that the Executive Director is authorized to execute a purchase order with Veolia Water Milwaukee, LLC, for Material Capital Repair or Replacement 1658, 12 Dryer Recycle Feed Screw Conveyor Replacements, Project J06087, in an amount not to exceed \$1,293,977.