

COMMISSION FILE NO: 25-095-7 **DATE INTRODUCED:** July 14, 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 1451-D, Four Dryers Blade Replacements

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) 1451-D, Four Dryers Blade Replacements, in an amount not to exceed \$382,817.

At the Jones Island Water Reclamation Facility, Milorganite® is produced within the Dewatering and Drying Facility. The sludge drying process utilizes 12 rotary drum dryers, each drum cylinder approximately eight feet in diameter and 57 feet in length, to heat-dry dewatered biosolids, producing Milorganite®. Drying occurs when hot gases from the combustion chamber pass through ports and enter the dryer drum, drying sludge via direct contact. Each dryer utilizes 132 steel blades of various shapes and sizes (types A, B, C, D, E, and F) attached to the inside dryer drum surface to mix and transport the biosolids through the dryer. These blades specifically facilitate mixing, heating, and drying and help to produce the proper pellet shape and size.

Over time, the highly abrasive nature of Milorganite® erodes the entire contact surface and cross section of the blades, reducing mixing, throughput, and drying effectiveness. In addition, severe deterioration can result in the detachment of blades from the dryer interior surface, which can then damage other dryer interior surfaces and components.

VWM and District staff have assessed the condition of dryer blades and have identified 48 specific blades (types A, B, C, and F) needing replacement in each of four dryers. Blade replacement will restore the efficiency and capacity of these dryers, thus ensuring ongoing and reliable heat drying of biosolids in the production of Milorganite®.

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 1451-D, Four Dryers Blade Replacements

VWM prepared a bid package that included replacing the 48 blades. In addition, they included the following optional bid items, which will be implemented on a case-by-case basis if inspection indicates the need.

- Replace discharge drop chute.
- Replace channel wear strips.
- Repair liner and drum seam welds.

VWM competitively bid the work, and Price Erecting (Price) submitted the lowest bid of three bids received. Price's bid is both responsive and responsible. The purchase order will be issued to VWM, which is responsible for managing and overseeing the contract with Price.

The contract duration is 180 days.

RESOLUTION

Material Capital Repair or Replacement 1451-D, Four Dryers Blade Replacements

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 1451-D, Four Dryers Blade Replacements, in an amount not to exceed \$382,817.