

**COMMISSION FILE NO:** 20-130-9 **DATE INTRODUCED:** September 14, 2020

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

**REFERRED BY COMMISSION CHAIRPERSON TO:** Operations Committee

**RELATING TO:** Authorizing the Executive Director to Execute a Purchase Order for Material Capital Repair or Replacement No. 1352, Jones Island Water Reclamation Facility Dewatering and Drying Dryers 1-12 Blade Replacements

**SUMMARY:**

The Commission is requested to authorize the Executive Director to execute a purchase order with Veolia Water Milwaukee, LLC, (VWM) for Material Capital Repair or Replacement (MCRR) No. 1352, Jones Island Water Reclamation Facility (JIWRF) Dewatering and Drying Dryers 1-12 Blade Replacements, in an amount not to exceed \$780,423.

At JIWRF, Milorganite® is produced within the Dewatering and Drying Facility. The sludge drying process utilizes 12 rotary dryers, each 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. The drums have various internal steel components that facilitate mixing, heating, and drying and ensure proper pellet shape and size. In addition, steel wear plates protect shrouds (which house the hot gas ports) and the drum liner.

Over time, the highly abrasive nature of Milorganite® has eroded the wear plates and attachment welds to the point where the surfaces of the shroud and drum liner are being exposed. Additional deterioration of the wear plates will result in damage to the shroud and drum liner, and potential formation of holes through to the combustion chamber. The existing wear plates are 26 years old and have not been replaced since original installation.

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

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**COMMITTEE ACTION:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**COMMISSION ACTION:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

## **SUMMARY (Cont'd)**

Authorizing the Executive Director to Execute a Purchase Order for Material Capital Repair or Replacement No. 1352, Jones Island Water Reclamation Facility Dewatering and Drying Dryers 1-12 Blade Replacements

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VWM and MMSD Contract Compliance staff have inspected and assessed dryer conditions and agree that replacement of wear plates in all 12 dryers is necessary. Replacement and repair will restore the designed wear protection and structural integrity of the drum internal heating port shroud, thus ensuring ongoing and reliable heat drying of biosolids in the production of Milorganite®. The contractor's scope of work is to remove and replace dryer internal wear plates in all 12 dryers.

VWM competitively bid the work, and the Price Erecting Company 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 the Price Erecting Company.

Consistent with the Agreement for Management, Operations, and Maintenance, the purchase order includes \$87,213 of overhead and markup and \$285 advertisement cost for VWM. This is in addition to the \$692,925 contract amount for the Price Erecting Company, resulting in a total purchase order amount of \$780,423.

The contract duration is 415 days.

## RESOLUTION

Authorizing the Executive Director to Execute a Purchase Order for Material Capital Repair or Replacement No. 1352, Jones Island Water Reclamation Facility Dewatering and Drying Dryers 1-12 Blade Replacements

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**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 No. 1352, Jones Island Water Reclamation Facility Dewatering and Drying Dryers 1-12 Blade Replacements, in an amount not to exceed \$780,423.