

COMMISSION FILE NO: 25-076-6 **DATE INTRODUCED:** June 9, 2025

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

REFERRED BY COMMISSION CHAIRPERSON TO: Operations Committee

RELATING TO: Change Order Request to Purchase Order No. 200031, Material Capital Repair or Replacement 1590, Jones Island Water Reclamation Facility Cake Slurry Mix Tanks 1 and 2 Repairs, Project J06075, and Restore the Executive Director's Original Delegated Authority

SUMMARY:

The Commission is requested to authorize the Executive Director to execute a change order to Purchase Order (PO) No. 200031, Material Capital Repair or Replacement 1590, Jones Island Reclamation Facility (JIWRF) Cake Slurry Mix Tanks 1 and 2 Repairs, Project J06075, with Veolia Water Milwaukee, LLC, (VWM) in an amount not to exceed \$55,913 and to restore the Executive Director's original delegated authority.

At JIWRF, Milorganite® is produced within the Dewatering and Drying (D&D) Facility. The feed to each dryer is a specific blend of wet cake and dry recycled material to achieve a final product of the correct pellet size and shape. Wet cake is generated by belt filter presses (BFP's) that are specifically designed to dewater biosolids upstream of the dryers. The wet feed rate for each dryer is adjusted to control bead size and product quality; however, if a dryer goes out of service abruptly, there is a need to immediately stop the flow of wet cake to the dryer and feed conveyors to avoid overloading conveying equipment or a permit violation. Since the wet feed cannot be stopped abruptly on the BFP's, two cake bypass belts are used to divert cake away from the dryers. Dewatered cake that is diverted away from the dryers is sent to a slurry tank where water and a high-speed mixer are used to dilute the cake and return the liquid stream back to secondary treatment or the head of the plant.

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

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COMMITTEE ACTION: _____ **DATE:** _____

COMMISSION ACTION: _____ **DATE:** _____

BACKGROUND

Change Order Request to Purchase Order No. 200031, Material Capital Repair or Replacement 1590, Jones Island Water Reclamation Facility Cake Slurry Mix Tanks 1 and 2 Repairs, Project J06075, and Restore the Executive Director's Original Delegated Authority

There are two nine-foot-diameter, 4,044-gallon steel slurry tanks. The slurry tanks and associated mixers/motors, valves, piping, instrumentation and controls, and local control panel (LCP) are original equipment, over 30 years old. The tanks have a protective urethane wall liner that has cracked, and the resulting brittle chips are beginning to delaminate. The liners have deteriorated to the point that the tanks now leak. One of the slurry tanks can only operate in local manual mode due to corrosion on electrical components inside the LCP. Dilution water fill valves on each tank do not actuate properly and close/seal completely.

Since the tanks were originally installed in one piece during construction of the building, replacement in kind is not an option, and fabrication of new tanks on site cannot be accomplished during the annual seven-day D&D Facility shutdown. As such, the existing liner will be removed by wet blasting and a new liner installed. While each tank is out of service, the mixer/motor, valves, piping, instrumentation and controls will be replaced. Repair of the slurry tanks allows continued reliable biosolids processing capacity in the D&D Facility.

To perform this repair work, in October 2024, the Commission authorized a PO to VWM in an amount of \$568,482. VWM had prepared the bid and contract package and publicly bid the work, with Lee Mechanical, Inc., (Lee) being the lowest responsible responsive bidder.

Lee's scope of work includes:

- Removing existing liner and perform surface preparation.
- Applying three coats of epoxy to tank walls, ceiling, and baffles.
- Applying vinyl ester polymer concrete to the tank floor, slope to drain nozzle.
- Replacing the mixer and drive; level element and transmitter; local control panel; and dilution water valves and piping.

The work under the original contract was to be completed during the 2024 and 2025 D&D Facility shutdowns. Due to factors outside Lee's control, it was impossible for this work to be performed during the 2024 shutdown. Thus, the District has authorized a change order under the Executive Director's authority to account for inflation for this additional year.

The construction duration of this contract is 500 days, but work will take place during two annual D&D Facility outages starting in 2025.

BACKGROUND (Cont'd)

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On the floor of the vessel, the original urethane coating is cracked and delaminating, allowing the sludge to come into direct contact with the carbon steel base metal and floor perimeter welds of the tank, resulting in corrosion and leaking. The District recently had an inspection performed to determine the condition and integrity of the vessel interior. This inspection indicated that the interior coating on the walls of the vessel is much thicker than the drawings indicated. Because of this, the interior coating cannot be removed as planned by conventional blasting methods within the allowable seven-day D&D shutdown window. To complete the interior coating removal and surface prep, relining, and coating cure within the shutdown window, an alternate coating removal method must be used. This change order requests changing the method to remove the interior coating from conventional blasting methods to a high pressure water jetting method.

CONTRACT COST CHANGES

	AMOUNT	PERCENTAGE INCREASE OVER ORIGINAL CONTRACT	AUTHORIZED BY	SWMBE
Original Contract	\$568,482		Commission	16.8%
Previous Change Orders	\$12,043	2.1%	ED Authority	0%
Requested Change Order	\$55,913	9.8%	Request of Commission	100%
Total Change Orders	\$67,956	11.9%		
TOTAL	\$636,438			23.8%

The Commission has delegated to the Executive Director authority to make changes to construction contracts valued over \$500,000 up to 10% of the original purchase order amount. To date, staff has utilized \$12,043 of this authority, leaving a balance of \$44,805. The request to restore the Executive Director's original delegated authority is in case any additional construction changes beyond the remaining Executive Director's authority are necessary. Without this restored authority, work may need to stop while staff obtains the necessary change order authority from the Commission.

RESOLUTION

Change Order Request to Purchase Order No. 200031, Material Capital Repair or Replacement 1590, Jones Island Water Reclamation Facility Cake Slurry Mix Tanks 1 and 2 Repairs, Project J06075, and Restore the Executive Director's Original Delegated Authority

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that the Executive Director is authorized to execute a change order to Purchase Order No. 200031, Material Capital Repair or Replacement 1590, Jones Island Water Reclamation Facility Cake Slurry Mix Tanks 1 and 2 Repairs, Project J06075, with Veolia Water Milwaukee, LLC, in an amount not to exceed \$55,913, and that the Executive Director's original delegated authority is restored.