

**COMMISSION FILE NO:** 16-105-9 **DATE INTRODUCED:** September 12, 2016

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

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

**RELATING TO:** Award of Contract J04041C01, Jones Island Water Reclamation Facility Milorganite<sup>®</sup> Facility Improvements Phase 3 Project, and Approve Changes in Total Project Costs

**SUMMARY:**

The Commission is requested to award and to direct the Executive Director to execute on behalf of the District Contract J04041C01, Jones Island Water Reclamation Facility (JIWRF) Milorganite<sup>®</sup> Facility Improvements Phase 3 Project, to Marshall Erecting, Inc., in the amount of \$4,547,000. Marshall Erecting, Inc., was the lowest responsible, responsive bidder, with one bid received.

Further, the Commission is requested to decrease the total project cost for Project J04041, JIWRF Milorganite<sup>®</sup> Facility Improvements Phase 3 Project, by \$1,085,150 for an amended total project cost of \$5,561,575, and to make a corresponding change to the total project cost for Project M99001, Allowance for Cost and Schedule Changes.

The JIWRF Dewatering and Drying (D&D) Facility has been in service since 1994. The D&D Facility converts sludge to Milorganite<sup>®</sup> product. The Milorganite<sup>®</sup> production process includes 12 rotary sludge dryers used to heat-dry dewatered biosolids, producing Milorganite<sup>®</sup>. The direct biosolids are transported from the dryers to other processes within the D&D Facility by conveyors and bucket elevators. The conveyors and bucket elevators that are reaching the end of their useful service life are experiencing various degrees of wear, which leads to breakdown of the equipment. This condition results in inefficient and unreliable biosolids conveyance equipment and reduced Milorganite<sup>®</sup> production. To ensure that the D&D Facility continues to process biosolids and create Milorganite<sup>®</sup>, the District has been developing and implementing a number of projects to replace these conveyors.

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

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

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

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

Award of Contract J04041C01, Jones Island Water Reclamation Facility Milorganite® Facility Improvements Phase 3 Project, and Approve Changes in Total Project Costs

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Since the D&D Facility was originally constructed, there have been two explosions within the facility. While the District has made significant safety improvements since those events, staff evaluates opportunities for risk reduction as facilities are replaced or upgraded. The conveyors and bucket elevators were constructed without explosion venting systems. Fire code requires that they be upgraded to include explosion venting systems. Also, eight conveyors installed under other contracts subsequent to the original construction have explosion venting installed, but no connection to the plant's instrumentation and control system.

The purpose of this project is to provide a minimum of 20-year service life to the conveyors and bucket elevators and reduce the risks associated with explosions.

This contract includes the following work:

- Replacing main recycle screw conveyor Nos. 3 and 4.
- Replacing main recycle bucket elevators Nos. 1 and 2.
- Replacing wet recycle screw conveyor Nos. 28-1 and 28-2.
- Replacing recycle bin discharge transfer screw conveyor Nos. 1 and 2.
- Installing diverter chutes between wet recycle screws 26 and 27.
- Providing explosion venting on each new screw conveyor and bucket elevator.
- Providing connections between existing explosion venting systems and the plant's instrumentation and control system on 16 conveyors: eight installed under other contracts and eight installed under this contract.

The contract duration is 400 days.

The low bid received by the District is less than budgeted, and staff requests to decrease the total project cost accordingly.

Consistent with the Agreement for Management, Operations, and Maintenance Services between the District and Veolia Water Milwaukee, LLC, (VWM), VWM will make a \$60,000 contribution to the District for this project.

## RESOLUTION

Award of Contract J04041C01, Jones Island Water Reclamation Facility Milorganite<sup>®</sup> Facility Improvements Phase 3 Project, and Approve Changes in Total Project Costs

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**RESOLVED**, by the Milwaukee Metropolitan Sewerage Commission, that Contract J04041C01, Jones Island Water Reclamation Facility Milorganite<sup>®</sup> Facility Improvements Phase 3 Project, is awarded to Marshall Erecting, Inc., in the amount of \$4,547,000, and that the Executive Director is directed to execute a contract on behalf of the District.

**FURTHER RESOLVED**, by the Milwaukee Metropolitan Sewerage Commission, that the total project cost for Project J04041, Jones Island Water Reclamation Facility Milorganite<sup>®</sup> Facility Improvements Phase 3 Project, is decreased by \$1,085,150 for an amended total project cost of \$5,561,575, and that a corresponding change is made to the total project cost for Project M99001, Allowance for Cost and Schedule Changes.