

**COMMISSION FILE NO:** 16-144-11 **DATE INTRODUCED:** November 14, 2016

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

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

**RELATING TO:** Authorization for the Executive Director to Enter into Contracts Related to Jones Island Water Reclamation Facility Dewatering and Drying Facilities and Harbor Siphons Project Related Site Settlement

**SUMMARY:**

The Commission is requested to authorize and to direct the Executive Director to award and enter into services, equipment procurement, and construction contracts over \$100,000 and up to \$250,000 through December 2019 related to Jones Island Water Reclamation Facility Dewatering and Drying Facilities and Harbor Siphons Settlement.

Further, the Commission is requested to authorize and to direct the Executive Director to reject bids over \$100,000 and up to \$250,000 through December 2019, as needed, related to Jones Island Water Reclamation Facility Dewatering and Drying Facilities and Harbor Siphons Settlement.

Background on Dewatering and Drying (D&D) Facilities

The District's D&D Facility is a major critical facility for processing biosolids and creating Milorganite®. The D&D Facility is over 20 years old, and District staff estimates that there are more than 2,800 active assets within the D&D Facility with an estimated replacement value of at least \$250 million.

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

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

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

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

### **Authorization for the Executive Director to Enter into Contracts Related to Jones Island Water Reclamation Facility Dewatering and Drying Facilities and Harbor Siphons Project Related Site Settlement**

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Following is a description of the type of equipment related to and within the D&D Facility:

- Drying systems, including rotary drum dryers, exhaust heat systems, mixers, and furnace refractory equipment.
- Dewatering systems, including belt filter presses.
- Conveyor systems, including gates, switches, housing, belts, buckets, screws, ladder chutes, air belts, motors, drive equipment, inlet and discharge chutes, and hard surfacing.
- Storage systems, including bins, vents, gates, and silos.
- Classification system equipment, including mills and screeners.
- Chemical feed systems, including pumps, piping, tanks and mixers.
- Product cooler systems.
- Air handling equipment.
- Explosion suppression equipment and systems.
- Dust and chaff collection and electrostatic precipitation equipment.
- Cyclone separation systems and air emissions control equipment.
- Crane systems.

The biosolids and Milorganite® product can be very abrasive and corrosive and can create significant wear on equipment. As the equipment is over 20 years old and has been deteriorating, staff is observing an increasing number of equipment failures. This increasing number of failures is creating system bottlenecks and temporary capacity reductions and has reduced the ability to produce Milorganite®. In addition, if air emission control equipment would fail, the District would risk air permit compliance.

#### **Background on Harbor Siphons Settlement**

In 2006, the District started construction on the Harbor Siphon project at the Jones Island Water Reclamation Facility. This project included construction of shafts to bedrock, over 125 feet deep, to facilitate the construction of the siphons 300 feet under the river. The project work included constructing a freeze wall for containing the groundwater outside the excavation area. The project was finished in January 2012. In mid-2013, staff began noticing significant settling in the area of the siphon freeze wall construction. Since 2013, nearly five feet of settling has been observed in the siphon project area, and work has been done to repair the damaged utilities and roadway. The settlement is attributed to the freezing of the soils, the poor soil conditions, and the movement of groundwater in the project area. Today, the soils are still frozen 35 to 50 feet below the ground surface.

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

### **Authorization for the Executive Director to Enter into Contracts Related to Jones Island Water Reclamation Facility Dewatering and Drying Facilities and Harbor Siphons Project Related Site Settlement**

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The settlement is expected to continue over the next 20 to 50 years and up to 15 feet of settlement is anticipated. Settlement can occur without warning and holds the potential to create higher safety and equipment risks and operational issues, but is not an emergency situation. For example, settlement has resulted in the need to temporarily reroute traffic and has created settled landscaping walls.

#### **Staff Request**

Both situations result in the need to quickly pursue actions that are urgently needed, but are not emergencies. As staff pursues engineering, design, equipment acquisition, and construction, Commission Policy 1-78.08, Contract Award Authority, requires Commission authorization of contracts if the contract amount is \$100,000 and greater, while contracts less than \$100,000 may be authorized by the Executive Director. The process for developing and submitting a Commission request ranges from two to three months.

To help expedite D&D Facility and Harbor Siphons contract execution, staff is requesting the Commission to authorize the Executive Director to award and execute contracts over \$100,000 and up to \$250,000 through December 31, 2019, related to this project. This authorization will assist the District in expediting engineering, design, equipment acquisition, and construction contracts.

In addition, if it is necessary to reject bids, staff is also requesting authorization to reject bids over \$100,000 and up to \$250,000 through December 31, 2019, for this project. This authorization will also help expedite bid rejection (also requiring a Commission action) and rebidding the contract.

Staff will continue to require small, women, veteran, and minority contracting goals, local worker participation requirements, local office incentives, and apprentice utilization, consistent with Commission policies. Staff will report to the Commission all contract awards under this authorization.

Staff developed the \$250,000 limit by evaluating historic and planned D&D contracts.

## RESOLUTION

Authorization for the Executive Director to Enter into Contracts Related to Jones Island Water Reclamation Facility Dewatering and Drying Facilities and Harbor Siphons Project Related Site Settlement

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**RESOLVED**, by the Milwaukee Metropolitan Sewerage Commission, that the Executive Director is authorized and directed to award and enter into services, equipment procurement, and construction contracts over \$100,000 and up to \$250,000 through December 2019 related to the Jones Island Water Reclamation Facility Dewatering and Drying Facilities and Harbor Siphons Settlement.

**FURTHER RESOLVED**, by the Milwaukee Metropolitan Sewerage District, that the Executive Director is authorized to reject bids over \$100,000 and up to \$250,000 through December 2019, as needed, related to the Jones Island Water Reclamation Facility Dewatering and Drying Facilities and Harbor Siphons Settlement.