

COMMISSION FILE NO: 25-120-9 **DATE INTRODUCED:** September 8, 2025

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 J06089C02, Influent and Secondary Effluent Flow Meters Replacement at Jones Island Water Reclamation Facility, and Approve Changes in Total Project Cost

SUMMARY:

The Commission is requested to award and to direct the Executive Director to execute on behalf of the District Contract J06089C02, Influent and Secondary Effluent Flow Meters Replacement at Jones Island Water Reclamation Facility (JIWRF), to Lee Mechanical, Inc., (Lee) in the amount of \$2,359,238. Lee was the lowest responsible, responsive bidder between two bids received.

Further, the Commission is requested to increase the total project cost (TPC) for Project J06089, Flow Meter Replacement at JIWRF, by \$619,283 for an amended TPC of \$2,968,283 and to make a corresponding change to the TPC for Project M99001, Allowance for Cost and Schedule Changes.

As part of the District's Wisconsin Pollutant Discharge Elimination System (WPDES) permit, the District is required to continuously measure both wastewater influent and treated effluent flow rates. In addition to meeting this requirement, operators use influent and effluent flow rate information to make operational decisions. Effluent flow rate data is also used to control disinfection chemical use.

Three magnetic flow meters measure influent flow, and two measure effluent flow to Lake Michigan. In a magnetic flow meter, as wastewater flows through the meter's magnetic field, it generates a small electrical signal that is proportional to how fast the wastewater is moving, and the meter uses that signal to calculate the flow rate.

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 J06089C02, Influent and Secondary Effluent Flow Meters Replacement at Jones Island Water Reclamation Facility, and Approve Changes in Total Project Cost

The three influent flow meters were installed in 1985, each in a large diameter pipe located inside the Influent Flow Meter Vault. Two of these meters are 72-inch diameter, and one is 90-inch diameter. The two 84-inch diameter secondary effluent flow meters are in the Disinfection Building. They were installed in 1988 and convey all treated wastewater to disinfection, the final step of the treatment process.

The flow meters included in this project have exceeded their expected service lives and are becoming unreliable. The purpose of this project is to ensure that the District can continuously measure influent and effluent flow rate to meet both operational needs and WPDES permit requirements.

The District prepared a bid package and publicly advertised and bid this contract. Under this proposed contract, Lee will:

- Remove and replace the five magnetic flow meters.
- Remove and replace all flexible pipe couplings and nonreusable mechanical couplings.
- Replace two 84-inch secondary effluent butterfly valves with pipe sections.
- Perform startup and testing.

The contract duration is 650 days.

The request to increase the TPC is mainly a result of the addition of the coupling replacements and valve replacements to the scope after the TPC was adopted as part of the 2025 Capital Budget. In addition, the low bid for the remaining construction was higher than budgeted.

RESOLUTION

Award of Contract J06089C02, Influent and Secondary Effluent Flow Meters Replacement at Jones Island Water Reclamation Facility, and Approve Changes in Total Project Cost

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that Contract J06089C02, Influent and Secondary Effluent Flow Meters Replacement at Jones Island Water Reclamation Facility, is awarded to Lee Mechanical, Inc., in the amount of \$2,359,238, 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 J06089, Flow Meter Replacement at Jones Island Water Reclamation Facility, is increased by \$619,283 for an amended total project cost of \$2,968,283, and that a corresponding change is made to the total project cost for Project M99001, Allowance for Cost and Schedule Changes.