

COMMISSION FILE NO: 25-117-9 **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: Contract S06055D01, Engineering Services – Secondary Clarifier Batteries 1-4 Walkways Rehabilitation at the South Shore Water Reclamation Facility

SUMMARY:

The Commission is requested to authorize the Executive Director to execute on behalf of the District Contract S06055D01, Engineering Services – Secondary Clarifier Batteries 1-4 Walkways Rehabilitation at the South Shore Water Reclamation Facility (SSWRF), with Applied Technologies, Inc., (ATI) in an amount not to exceed \$330,509. ATI was the highest-scoring proposer based on a qualifications-based selection method between two proposals received.

The activated sludge process is a fundamental step in the water reclamation process. The process involves growing microorganisms in large aeration basins, where the microorganisms consume the organic material in wastewater. The source of the microorganisms is return activated sludge from secondary clarifiers, which combine with primary clarifier effluent at the beginning of the aeration basins to form mixed liquor. Mixed liquor is continuously supplied with oxygen for several hours, allowing and promoting microorganisms to consume the organic material in the wastewater. The mixed liquor travels through the aeration basins to the secondary clarifiers. In the secondary clarifiers, the mixed liquor settles by gravity, creating activated sludge. The activated sludge is collected at the bottom of each secondary clarifier.

The SSWRF has 24 secondary clarifiers, which are large, octagonal basins measuring 112 feet in diameter. The clarifiers are arranged into six batteries, each comprised of four clarifiers. Batteries 1 through 4 were constructed in 1971. Batteries 5 and 6 were constructed in 1983.

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

OP_Award_S06055D01_Secondary_Clarifier_Batteries_legislative_file.docx
08-18-25

COMMITTEE ACTION: _____ **DATE:** _____

COMMISSION ACTION: _____ **DATE:** _____

SUMMARY (Cont'd)

Contract S06055D01, Engineering Services – Secondary Clarifier Batteries 1-4 Walkways Rehabilitation at the South Shore Water Reclamation Facility

Six reinforced concrete walkways run down the center of each battery, providing personnel with access to perform clarifier operations and maintenance. The walkways are integrally cast with the clarifier tank walls, and the concrete channels beneath which convey flow to and from the clarifiers. Each walkway is approximately 10.5 feet wide, 200 feet long, and nine inches thick. At the midpoint of each battery, the walkway widens into a diamond shaped central area that includes additional adjacent on-grade concrete surfaces. These on-grade areas are not structurally connected to the main walkway but are included within the project limits and are considered part of the walkway.

Given their age, the walkways in Batteries 1–4 have extensive surface cracking and deterioration. Their poor condition poses safety risks to personnel. The purpose of this project is to rehabilitate these walkways, extending their service life and improving safety.

Under Contract S06055D01, ATI will perform the following engineering services to rehabilitate both the concrete walkways running through the centers of Batteries 1 through 4 and the adjacent on-grade concrete areas:

- Project management.
- Condition assessments and identify areas for rehabilitation or replacement.
- Preliminary and final design, including developing bid documents.
- Construction strategies to minimize operational disruptions.
- Bid and award.
- Engineering services during construction.

After design work is complete, the District will publicly bid the construction contract.

The duration of this contract is approximately 42 months.

RESOLUTION

Contract S06055D01, Engineering Services – Secondary Clarifier Batteries 1-4
Walkways Rehabilitation at the South Shore Water Reclamation Facility

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that the Executive Director is authorized to execute Contract S06055D01, Engineering Services – Secondary Clarifier Batteries 1-4 Walkways Rehabilitation at the South Shore Water Reclamation Facility, with Applied Technologies, Inc., in an amount not to exceed \$330,509.