



COMMISSION FILE NO: 20-050-4 **DATE INTRODUCED:** April 15, 2020

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

REFERRED BY COMMISSION CHAIRPERSON TO: Operations Committee

RELATING TO: Contract J01028D01, Engineering Services, Jones Island Water Reclamation Facility Primary Clarifiers Drive Improvements

SUMMARY:

The Commission is requested to authorize the Executive Director to execute on behalf of the District Contract J01028D01, Engineering Services, Jones Island Water Reclamation Facility (JIWRF) Primary Clarifiers Drive Improvements, with Arcadis US, Inc., (Arcadis) in an amount not to exceed \$197,982. Arcadis was the highest scoring proposer based on a qualifications-based selection method among five proposals received.

Primary clarification is a key unit process used for the removal of biological oxygen demand and total suspended solids from the influent wastewater stream. JIWRF has eight circular primary clarifiers each 160 feet in diameter.

The clarifier drive mechanisms were installed in 1980 and rehabilitated in 2010-2013. In the last few years, the clarifiers have experienced some excess drive wear. Staff believes that water has intruded into the drive mechanisms during high wet weather flows, ultimately resulting in this excess drive wear and reduced system reliability. Since discovery of this issue, operating staff have modified wet weather operational procedures to limit those flows to help reduce the risk of clarifier drive damage.

The purpose of this project is to improve the reliability of the primary clarification process. Staff proposes to modify the clarifier drive by increasing the height that the drive mechanism sits above water. In addition, staff recommends either rehabilitating or replacing the clarifier drive mechanisms.

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

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COMMITTEE ACTION: _____ **DATE:** _____

COMMISSION ACTION: _____ **DATE:** _____

SUMMARY (Cont'd)

Contract J01028D01, Engineering Services, Jones Island Water Reclamation Facility
Primary Clarifiers Drive Improvements

The work proposed under this contract includes all engineering services for the replacement or rehabilitation of the primary clarifier drive mechanisms and increasing the elevation of the drive mechanism, clarifier bridge, and associated equipment and systems.

Under Contract J01028D01, the consultant will perform the following major tasks:

- Engineering design services.
- Bid and construction documents preparation.
- Engineering services during construction.
- Operations training, startup, and application engineering services.

The duration for this contract is approximately 43 months.

RESOLUTION

Contract J01028D01, Engineering Services, Jones Island Water Reclamation Facility
Primary Clarifiers Drive Improvements

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that the Executive Director is authorized to execute Contract J01028D01, Engineering Services, Jones Island Water Reclamation Facility Primary Clarifiers Drive Improvements, with Arcadis US, Inc., in an amount not to exceed \$197,982.