

RESOLUTION R2024-XX

RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MANTECA, STATE OF CALIFORNIA, APPROVING PLANS AND SPECIFICATIONS FOR THE WQCF SLUDGE THICKENER (DAF) UNIT NO. 3 (CIP 24007) AND WQCF DEWATERING (CENTRIFUGE) UNIT NO. 3 (CIP 24006) SYSTEM DESIGN PROJECT; AUTHORIZING THE CITY TO FILE A NOTICE OF EXEMPTION WITH THE APPROPRIATE AGENCIES PURSUANT TO THE CALIFORNIA ENVIRONMENTAL QUALITY ACT; AUTHORIZING A CALL FOR BIDS; AND AUTHORIZING THE CITY MANAGER OR DESIGNEE TO TAKE ALL APPROPRIATE ACTIONS NECESSARY TO CARRY OUT THE PURPOSE AND INTENT OF THE RESOLUTION (EXEMPT FROM CEQA PURSUANT TO 14 CAL. CODE REGS. § 15301(B) (EXISTING FACILITIES))

WHEREAS, on March 18, 2022, the City of Manteca (City) completed the Wastewater Quality Control Facility (WQCF) 2021 Capacity Assessment that recommended the installation of a third Dissolved Air Flotation Tank for the Waste Activated Sludge (WAS) thickening system and a third centrifuge for the dewatering system at the WQCF; and

WHEREAS, on November 6, 2023, the City entered into an Agreement (C2023-136) for Professional Services with Carollo Engineers, Inc. (Carollo) for the WQCF Sludge Thickener (DAF) Unit No. 3 (CIP 24007) and WQCF Dewatering (Centrifuge) Unit No. 3 (CIP 24006) System Design Project (Project) to evaluate, design, and prepare biddable Project Plans, Specifications, and Estimates (PS&E) of these systems; and

WHEREAS, during the initial Project evaluation, Carollo was required to prepare a Preliminary Design Report (PDR) evaluating the following alternatives:

1. Review addition of a third Dissolved Air Flotation Tank (DAFT).
2. Review technology change to Rotary Drum Thickeners (RDTs).
3. Review replacement of the existing DAFTs with Gravity Belt Thickeners (GBTs).
4. Analysis of co-thickening of the Primary Sludge (PS) and the WAS.
5. Review addition of a third centrifuge that matches the existing units.
6. Review addition of a third centrifuge with a higher capacity than the existing units.
7. Review replacement of the centrifuges with screw press technology; and

WHEREAS, the Final PDR made the following recommendations:

Sludge Thickener

ATTACHMENT 1

- Design the new sludge thickening process to allow for co-thickening of primary sludge and secondary sludge to maximize the total solids concentration of the sludge feed to the digesters and homogenize the sludge feed to reduce process upsets.
- Install new RDT technology which allows for co-thickening of primary sludge and secondary sludge.
- Convert existing DAFs into sludge blending tanks and install required yard piping.
- Replace MCC-E to support new process equipment.

Dewatering

- Continue with the design of the addition of a third centrifuge that matches the existing units as this is the most economical solution; and

WHEREAS, based on the PDR, the following recommended alternatives would be more beneficial and economical to increase treatment capacity at the WQCF:

- Sludge thickening system: Replacement of the existing DAFTs with RDTs and co-thickening of PS and WAS
- Dewatering system: Addition of a third centrifuge that matches the existing units; and

WHEREAS, on June 18, 2024, the City executed Amendment No. 1 (C2023-136-A1) to the Agreement for Carollo to expand the scope of work to design based on the recommended alternatives; and

WHEREAS, the Engineer's Estimate for the Project is \$24 Million; and

WHEREAS, staff has reviewed and determined that the Project is Categorically Exempt under the California Environmental Quality Act (CEQA) pursuant to 14 Cal. Code Regs. § 15301(b), Class 1 "Existing Facilities" as the Project consists of all minor alterations to existing public facilities used to provide sewerage utility and involves negligible expansion of existing uses; and

WHEREAS, a Notice of Exemption will be filed with the San Joaquin County Clerk and the State Clearinghouse for the Project within five days of approval pursuant to 14 Cal. Code Regs. § 15094. Plans, Specifications, and Estimates (PS&E) are available for review in the Engineering Department; and

WHEREAS, the City Council has considered all information related to this matter, as presented at the public meetings of the City Council identified herein, including any supporting reports by City Staff, and any information provided during public meetings.

NOW, THEREFORE, BE IT RESOLVED, by the City Council of the City of Manteca, as follows:

ATTACHMENT 1

1. The City Council hereby finds that the facts set forth in the recitals to this Resolution are true and correct, and establish the factual basis for the City Council's adoption of this Resolution.
2. The City Council hereby approves Plans and Specifications for the WQCF Sludge Thickener (DAF) Unit No. 3 (CIP 24007) and WQCF Dewatering (Centrifuge) Unit No. 3 (CIP 24006) System Design Project.
3. The City Council hereby authorizes the filing with the appropriate agencies the Notice of Exemption pursuant to the California Environmental Quality Act (CEQA) as the Project is exempt from CEQA pursuant to 14 Cal. Code Regs. § 15301(b), the Existing Facilities Exemption.
4. The City Council hereby authorizes a Call for Bids.
5. The City Council hereby authorizes the City Manager or designee to apply for permits, apply for State and Federal grants, solicit project funding support, complete and execute all associated documents, and take all appropriate actions necessary to carry out the purpose and intent of the resolution.
6. This Resolution shall take effect immediately upon its adoption.

I HEREBY CERTIFY that the foregoing Resolution was duly adopted by the City Council of the City of Manteca at a public meeting of said City Council held on the 17th day of December, 2024, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

MAYOR: _____
GARY SINGH
Mayor

ATTEST: _____
CASSANDRA CANDINI-TILTON
City Clerk