



Folsom City Council Staff Report

MEETING DATE:	1/26/2021
AGENDA SECTION:	Consent Calendar
SUBJECT:	Resolution No. 10582 – A Resolution Authorizing the City Manager to Execute an Agreement with HDR Engineering Inc. for Design Services for the Water Treatment Plant Backwash and Recycled Water Capacity Project
FROM:	Environmental and Water Resources Department

RECOMMENDATION / CITY COUNCIL ACTION

The Environmental and Water Resources Department recommends the City Council pass and adopt Resolution No. 10582 - A Resolution Authorizing the City Manager to Execute an Agreement with HDR Engineering Inc. for Design Services for the Water Treatment Plant Backwash and Recycled Water Capacity Project.

BACKGROUND / ISSUE

The Environmental and Water Resources (EWR) Department identifies infrastructure rehabilitation and replacement projects through water and sewer master plans, ongoing condition assessment programs, and regulatory changes. EWR staff completed an analysis of potential Water Treatment Plant (WTP) capacity and reliability projects. Through these efforts, EWR staff identified the Water Treatment Plant Backwash and Recycled Water Capacity Project as a priority project.

There are two Reclaimed Backwash ponds (RBW #1 and RBW #2) at the Water Treatment Plant that store water used to clean the filters, known as backwash water, and this backwash water can be recycled back to the headworks of the WTP. The US Environmental Protection Agency (EPA) allows water agencies to recycle up to 10% of the backwash water based on the water treatment plant capacity. The WTP's current firm capacity is 35 million gallons per day (MGD), and 10% of the current firm capacity, or 3.5 MGD of backwash water, can be recycled back into the system. The WTP's future firm capacity will be 50 MGD. This project will

increase redundancy and reliability to allow for 10% of the future firm capacity, or 5.0 MGD of backwash water, to be recycled back into the WTP system. Additionally, increasing the recycled water capacity greatly reduces the City's risk for the potential to overflow the RBW ponds.

The current piping configuration at the inlet of the RBW ponds only feeds RBW #2. This project will upgrade the piping arrangement to feed either RBW #1 or RBW #2 with isolation valves. Having this operational flexibility in feeding either pond will allow for the maintenance and cleaning of one pond at a time, while the other is still operating. This project also involves upgrading the submersible pumps in the decant pump station (DPS) at the outlet of the RBW ponds to meet the peak flow of approximately 5.0 MGD. Additionally, the DPS control system will be upgraded to provide improved operational controls and flexibility. The DPS wet well also has aging and leaking slide gates that will be replaced.

This resolution will authorize the City Manager to execute an agreement with HDR Engineering Inc. for Design Services for the Water Treatment Plant Backwash and Recycled Water Capacity Project in the amount of \$116,526.

POLICY / RULE

In accordance with Chapter 2.36 of the Folsom Municipal Code, supplies, equipment, services, and construction with a value of \$62,657 or greater shall be awarded by City Council.

ANALYSIS

The Water Treatment Plant Backwash and Recycled Water Capacity Project will allow for reliability and redundancy in recycling backwash water of the water treatment process.

The modifications to the RBW ponds will allow for 10% of the WTP's future firm capacity of 50 MGD, or 5.0 MGD of backwash water, to be recycled back into the WTP system. The submersible pumps and SCADA control system will be upgraded to automate the DPS control system. Aging and leaking slide gates will be replaced along with upgrading the piping arrangement to feed either RBW #1 or RBW #2.

In 2018, the EWR Department completed a pre-qualification process for consultants for design and construction management services. The consulting firm HDR Engineering Inc. was one design firm selected to provide design and construction administration services for Water Treatment Plant projects through the pre-qualification process.

Design Services will include engineering drawings and project specifications suitable for a competitive bidding process per the City's requirements. HDR Engineering Inc., by reason of their statement of qualifications, past experience, and abilities for performing these types of services, are qualified to perform the required design services for this project.

The Environmental and Water Resources Department recommends that the City Council authorize the City Manager to execute an agreement with HDR Engineering Inc. for a not-to-exceed amount of \$116,526.

FINANCIAL IMPACT

The Water Treatment Plant Backwash and Recycled Water Capacity Project was included in the FY 2020-21 Capital Improvement Plan with a total project budget of \$619,000. Sufficient funds are available in the Water Operating Fund (520) and the Water Capital Fund (521) for this agreement.

ENVIRONMENTAL REVIEW

An initial review of the project indicates that the project likely qualifies for a “replacement or reconstruction” exemption under California Environmental Quality Act (CEQA) Section 15302. HDR Engineering Inc. and their environmental consultant will review all technical reports, develop the project description, and prepare the Notice of Exemption Form (NOE) from Appendix E of the CEQA Guidelines. If any findings require additional CEQA work or analysis beyond the work required for the NOE, this will be brought back to the City Council for consideration and approval.

ATTACHMENT

Resolution No. 10582 - A Resolution Authorizing the City Manager to Execute an Agreement with HDR Engineering Inc. for Design Services for the Water Treatment Plant Backwash and Recycled Water Capacity Project

Submitted,

Marcus Yasutake, Director
ENVIRONMENTAL AND WATER RESOURCES DEPARTMENT

RESOLUTION NO. 10582

A RESOLUTION AUTHORIZING THE CITY MANAGER TO EXECUTE AN AGREEMENT WITH HDR ENGINEERING INC. FOR DESIGN SERVICES FOR THE WATER TREATMENT PLANT BACKWASH AND RECYCLED WATER CAPACITY PROJECT

WHEREAS, the City identifies that the project is critical to ensuring the treatment of high quality water supply to be delivered to all residents; and

WHEREAS, the City of Folsom has identified this project as a priority to maintain the integrity and operation of the water treatment system; and

WHEREAS, HDR Engineering Inc. by reason of their past experience and abilities for performing these types of services, are qualified to perform the required design services for this project; and

WHEREAS, sufficient funds have been budgeted and are available in the Water Operating Fund (520) and Water Capital Fund (521); and

WHEREAS, the agreement will be in a form acceptable to the City Attorney:

NOW, THEREFORE, BE IT RESOLVED that the City Council of the City of Folsom authorizes the City Manager to execute an agreement with HDR Engineering Inc. for Design Services for the Water Treatment Plant Backwash and Recycled Water Capacity Project for a not-to-exceed amount of \$116,526.

PASSED AND ADOPTED this 26th day of January 2021, by the following roll-call vote:

AYES: Councilmember(s):
NOES: Councilmember(s):
ABSENT: Councilmember(s):
ABSTAIN: Councilmember(s):

Michael D. Kozlowski, MAYOR

ATTEST:

Christa Freemantle, CITY CLERK