

Folsom City Council Staff Report

MEETING DATE:	2/25/2020
AGENDA SECTION:	Consent Calendar
SUBJECT:	Resolution No. 10393 – A Resolution Authorizing the City Manager to Execute Amendment No. 1 to the Agreement (Contract No. 173-21 19-028) with Black & Veatch Corporation for the Design Services for the Water Treatment Plant Actiflo-Polymer Capacity Project, Hereinafter Referred to as the Water Treatment Plant Pre-Treatment System Improvement Project
FROM:	Environmental and Water Resources Department

RECOMMENDATION / CITY COUNCIL ACTION

The Environmental and Water Resources Department recommends that the City Council pass and adopt Resolution No. 10393 – A Resolution Authorizing the City Manager to Execute Amendment No. 1 to the Agreement (Contract No. 173-21 19-028) with Black & Veatch Corporation for the Design Services for the Water Treatment Plant Actiflo-Polymer Capacity Project, hereinafter referred to as the Water Treatment Plant Pre-Treatment System Improvement Project.

BACKGROUND / ISSUE

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

Currently, the City’s water treatment process consists of three pre-treatment facilities. There are two Actiflo trains that can treat 20 million gallons per day (MGD) each, and the Basin 5 train that can treat 15 MGD. Together these provide a total capacity of 55 MGD of treated

water. If the WTP were required to produce at the rated design capacity of 50 MGD, all three pre-treatment sedimentation trains would need to remain online without any redundancy. If one of the three existing pre-treatment sedimentation systems were offline due to operation and maintenance or failure the WTP would only be able to produce between 35 and 40 MGD.

On March 12, 2019, City Council approved Resolution No. 10246 authorizing the City Manager to execute an agreement with Black & Veatch Corporation for design services for the Water Treatment Plant Pre-Treatment System Improvement Project in the amount of \$393,029. As the project progressed and after several field visits by Black & Veatch Corporation with City staff, additional improvements are needed within Basin No. 5 that were discovered and are listed below:

- Hydraulic upgrades at the influent pipe to Basin No. 5.
- Structural upgrades within the walls of Basin No. 5 due to the additional load from the proposed plate settlers
- New Motorized Control Valve at the influent pipe to Basin No. 5
- New Flow Meter at the influent pipe to Basin No. 5

This resolution will authorize the City Manager to execute Amendment No. 1 to the agreement (Contract No. 173-21 19-028) with Black & Veatch Corporation for the design services for the Water Treatment Plant Pre-Treatment System Improvement Project. Amendment No. 1 is for \$37,732 bringing the total contract amount, including Amendment No. 1 to \$430,761.

POLICY / RULE

In accordance with Chapter 2.36 of the Folsom Municipal Code, professional services costing \$62,014 or greater shall be contracted for by the City Council.

ANALYSIS

Through Resolution No. 10246, City Council authorized the City Manager to execute an agreement with Black & Veatch Corporation for design services for the Water Treatment Plant Pretreatment System Improvement Project. This amendment provides additional funding for design services that were not anticipated under the original contract. These additional design services include:

- Demolition and Construction Drawings detailing the upgrade of the Basin No.5 influent piping
- Civil/Mechanical and Electrical/Instrumentation and Control drawings detailing the addition and installation of the new control valve and flow meter
- Technical specifications for the steel pipe, valves, actuators, flowmeter, and other required items
- Coordination with equipment vendors
- Development of work sequence and construction constraints due to the additional work
- Structural analysis and preparation of structural modification plans for Basin No.5

The Environmental and Water Resources Department recommends that the City Council authorize the City Manager to execute Amendment No. 1 to the Agreement (Contract No. 173-21 19-028) with Black & Veatch Corporation for design services for the Water Treatment Plant Pre-Treatment System Improvement Project in the amount of \$37,732. The new contract amount, including Amendment No. 1, will total \$430,761.

FINANCIAL IMPACT

The Water Treatment Plant Capacity Upgrade (formerly Water Treatment Plant Actiflo-Polymer Capacity) Project was included in the FY 2019-20 Capital Improvement Plan with a project budget of \$4,934,914. The project has since been renamed the Water Treatment Plant Pre-Treatment System Improvement Project.

The Environmental and Water Resources Department recommends that Amendment No. 1 to the agreement (Contract No. 173-21 19-028) for design services be awarded to Black & Veatch Corporation for an additional \$37,732. There are sufficient funds budgeted and available in the Water Capital Fund (Fund 521) for this amendment.

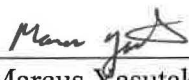
ENVIRONMENTAL REVIEW

This project is a rehabilitation project of existing infrastructure, and therefore is categorically exempt from environmental review under the California Environmental Quality Act as noted in Title 14 – California Code of Regulations, Chapter 3 – Guidelines for Implementation of the California Environmental Quality Act, Article 19 – Categorical Exemptions, Section 15302 – Replacement or Reconstruction.

ATTACHMENTS

Resolution No. 10393 – A Resolution Authorizing the City Manager to Execute Amendment No. 1 to the Agreement (Contract No. 173-21 19-028) with Black & Veatch Corporation for the Design Services for the Water Treatment Plant Actiflo-Polymer Capacity Project, Hereinafter Referred to as the Water Treatment Plant Pre-Treatment System Improvement Project.

Submitted,



Marcus Yasutake, Director
Environmental and Water Resources Department

RESOLUTION NO. 10393

A RESOLUTION OF THE CITY COUNCIL AUTHORIZING THE CITY MANAGER TO EXECUTE AMENDMENT NO. 1 TO THE AGREEMENT (CONTRACT 173-21 19-028) WITH BLACK & VEATCH CORPORATION FOR THE DESIGN SERVICES FOR THE WATER TREATMENT PLANT ACTIFLO-POLYMER CAPACITY PROJECT, HEREINAFTER REFERRED TO AS THE WATER TREATMENT PLANT PRE-TREATMENT SYSTEM IMPROVEMENT 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, Black & Veatch Corporation, by reason of their past experience and abilities for performing these types of services, are qualified to perform the required consulting services for the project; and

WHEREAS, sufficient funds are budgeted and available in the Water Capital Fund (Fund 521) in the amount of \$37,732; 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 Amendment No. 1 to the Agreement (Contract No. 173-21 19-028) with Black & Veatch Corporation for the Design Services for the Water Treatment Plant Actiflo-Polymer Capacity Project, hereinafter referred to as the Water Treatment Plant Pre-Treatment System Improvement Project in the amount of \$37,732 for a total not-to-exceed amount of \$430,761.

PASSED AND ADOPTED this 25th day of February 2020, by the following roll-call vote:

AYES: Council Member(s):
NOES: Council Member(s):
ABSENT: Council Member(s):
ABSTAIN: Council Member(s):

Sarah Aquino, MAYOR

ATTEST:

Christa Freemantle, CITY CLERK