



City of Columbia

701 East Broadway, Columbia, Missouri 65201

Department Source: City Utilities - Water and Light

To: City Council

From: City Manager & Staff

Council Meeting Date: October 16, 2023

Re: Authorizing construction of the McBaine Water Treatment Plant Upgrade – Phase 1 Project and calling for bids through the Purchasing Division.

Executive Summary

Staff has prepared for council consideration an ordinance authorizing construction and issuing a contract for the work by bid call through the Purchasing Division for the construction of the McBaine Water Treatment Plant Upgrade-Phase 1 Project. The McBaine Water Treatment Plant is located south of Columbia along West Route K adjacent to the Village of McBaine as shown on the attached Location Map. A public hearing was held on August 15, 2022. The opinion of probable cost provided by the engineer, for the base bid improvements of this project is \$25,000,000. The project will be funded with Water and Electric Revenue bonds and enterprise revenues from the Water Utility.

Discussion

The Water Utility is proposing construction of the McBaine Water Treatment Plant Upgrade-Phase 1 Project. The project will restore the plant's capacity to treat 32 million gallons of water per day and include rehabilitation and replacement projects that will enhance the performance and extend the life of this critical facility. The major components of the base bid improvements include replacement of aeration and softening basin equipment, filter and chemical feed system improvements and reclaim basin improvements.

In addition to the base bid improvements, three Add Alternate Improvements will be included in the project bid package. These three Add Alternates include a maintenance building, filter building improvements and a re-carbonation chemical feed system.

In 2016, Black and Veatch provided the City a Condition Assessment for the McBaine Water Treatment Plant. The assessment identified the need for phased improvements at treatment plant as many components of the plant were nearing or beyond the end of their useful life. HDR, Inc. was selected for the design of these improvements through an RFP process with an engineering agreement approved by Council on August 3, 2020.

Water Utility staff held an Interested Parties (IP) meeting for this project on February 22, 2022. A public hearing for the project was held on August 15, 2022. A project status update was presented at a Council Work Session on November 28, 2022. The construction permit for this project has been issued by the Missouri Department of Natural Resources.

The opinion of probable cost for construction, provided by HDR, for the base bid improvements of this project is \$25,000,000. The project will be funded with Water and Electric Revenue bonds and enterprise revenues from the Water Utility.



City of Columbia

701 East Broadway, Columbia, Missouri 65201

Funding of \$1,529,000 is currently appropriated in this Capital Improvement Project account. City staff are currently in the process of issuing \$27,695,000 in Water and Electric Revenue Bonds. \$21,050,000 of this issuance has been allocated for the McBaine Water Treatment Plant Upgrade-Phase 1 Project and will be appropriated to the project at future date.

Pending the outcome of the bidding process, additional bond funding may need to be re-allocated or additional enterprise revenue funds may need to be appropriated.

If the bids are favorable, staff may elect to include one or more of the Add Alternates along with the base bid improvements.

It is anticipated that this project will be bid during the winter months and a construction contract awarded by spring of 2024. Construction is estimated to take 24 months given the complex phasing of the project.

Fiscal Impact

Short-Term Impact: \$22,579,000 is anticipated to be available for this project. Funding of \$1,529,000 is currently appropriated in this project. It is anticipated an additional \$21,050,000 will be appropriated for this project following the sale of bonds. Additional bond funding may need to be reallocated or additional enterprise revenue funds appropriated to this project, pending the results of the bidding process.

Long-Term Impact: This project is not anticipated to have an impact to the annual budget for operations and maintenance.

Strategic & Comprehensive Plan Impact

Strategic Plan Impacts:

Primary Impact: Reliable and Sustainable Infrastructure, Secondary Impact: Not Applicable, Tertiary Impact: Not Applicable

Comprehensive Plan Impacts:

Primary Impact: Infrastructure, Secondary Impact: Not applicable, Tertiary Impact: Not Applicable

Legislative History

Date	Action
09/18/2023	(B215-23) Authorizing the issuance of Water and Electric System Bonds, Series 2023A.
08/15/2022	(PH28-22) Public Hearing
08/01/2022	(R108-22) Setting a public hearing: proposed construction of the McBaine Water Treatment Plant Upgrade - Phase 1 project.



City of Columbia

701 East Broadway, Columbia, Missouri 65201

08/03/2020	(B184-20) Authorizing a professional engineering services agreement with HDR, Inc.
12/16/2019	(REP114-19) Engineering Services for the Rehabilitation of the Water Treatment Plant
07/01/2019	(B172-19) Amending the FY 2019 Annual Budget by appropriating funds from the sale of Water and Electric System Revenue Bonds to various F& 2019 water capital improvement projects.
05/06/2019	(B99-19) Authorizing the issuance of Water and Electric System Revenue Bonds, Series 2019A.
04/15/2019	(R61-19) Authorizing the notice of sale of Water and Electric System Revenue Bonds, Series 2019A.
09/04/2018	(R133-18) Declaring results of the special election held on August 7, 2018.
05/21/2018	(B93-18) Calling a special election on Tuesday, August 7, 2018 for the issuance of Water and Electric System Revenue Bonds

Suggested Council Action

Approval of the ordinance.