CONTRACT

Ordinance Fact Sheet

Amendment Form

210913

Revised 10-18-2021

Brief Title Approval Deadline	Reason	
Modernization Improvements at the	To authorize execution of an amendment and expenditures.	
Vater Treatment Plant, Amendment No. 3		
Reason for Contract	Sponsor	
This design professional services project is addressing rehabilitation needs, optimizing the treatment process,	1 2 1 1 1 1 1	Water Services Department
increasing the treatment capacity from 240 to 270 million	Department or Programs	
gallons per day (mgd), and eliminating restrictions to increase	Affected	Water Services Department
the hydraulic capacity to 300 mgd to modernize the City's Water Treatment Plant.	Recommended	Water Corridos Bopananen
	Awardee	Black & Veatch Corporation
This proposed Amendment No. 3 will provide design phase	Contract	
services for Intake and Water Treatment Plant Improvements (primary basins, final basin nos. 3A and 3B, slide gates, and	Compliance	
butterfly valves).	Certification	No XX Yes
	Obtained?	
Discussion	Opponents	Groups or Individuals
Discussion		
Contract Summary	ı	None known
City Council approved Ordinance No. 190332 on May 2, 2019 approving a maximum expenditure of \$6,116,000.00 with Black		
& Veatch Corporation for the Modernization Improvements at		Reason for Opposition
the Water Treatment Plant design professional services project.		
Contract + Proposed Amendment Cost Summary		
Original Contract \$4,011,980.00	Responsibilities	Design Engineering:
Amendment No. 1 \$0.00 Amendment No. 2 \$1,183,000.00	, ['	
Proposed Amendment No. 3 \$1,183,000.00 \$1,783,000.00		Black & Veatch Corporation
Total: \$9,722,712.00		Inspections:
Project Justification		
The purpose of this project is to modernize Kansas City's Water		
Treatment Plant by addressing rehabilitation needs, optimizing		Construction or Project Management:
the treatment process, increasing the treatment capacity from 240 to 270 million gallons per day (mgd), eliminating		
restrictions to increase the hydraulic capacity to 300 mgd and		Service Monitoring:
provide a more reliable, sustainable raw water, pumping and		Service Monitoring.
treatment system to support KCMO's growth.		
The Water Treatment Plant is located at 1 N.W. Briarcliff Road,		
in Clay County, Kansas City, Missouri.	Policy/Program I	mpact
Project Description	Policy or Program	
The scope of services on this project includes preliminary	Emphasis	
design and final design and bidding services for Construction Bid Packages No. 1 and No. 2.	Change	XX No Yes
·	ı	
The Project includes the following major components: • A facility condition assessment to identify and prioritize	Operational	-
rehabilitation improvements;	Impact	
Hydraulic evaluations to identify flow restrictions and	Assessment	
develop improvements to achieve 300 mgd; Computational fluid dynamics (CFD) modeling to identify		
opportunities to optimize the treatment processes;		

Details

- Bench-scale testing of disinfection modifications to achieve the desired capacity during winter months while complying with regulatory requirements, and for optimization of the treatment processes in the Primary and Final Basins and Recarbonation Channel;
- Pilot testing of a high rate settling technology (Plate Settlers) to improve the settling performance within the Final Basins;
- Full-scale filter pilot to evaluate dual media performance;
- Primary Basin equipment modifications to optimize the treatment process;
- Biofiltration evaluation to determine the advantages and disadvantages of implementing this process;
- Tracer testing of two basin trains and the clearwell/reservoir system to update the baffling factor for disinfection;
- Development of a predictive water quality model to facilitate operations under changing water quality conditions and the development of an interactive process flow diagram;
- Preliminary design, final design, and bidding services for two construction bid packages consisting of the replacement of the secondary basin equipment including the launders/weirs, residual collection equipment and the access walkways, and improvements to the primary basins, parshall flumes, disinfection, and filters for increased hydraulic capacity and treatment performance; and
- A Risk and Resiliency Assessment and update to the Emergency Response Plan to comply with the America's Water Infrastructure Act.

The amount of the original contract was \$4,011,980.00.

A no-cost Amendment No. 1 was executed on April 10, 2020 that added language to the contract for purchasing material and equipment that was tax exempted.

A \$1,183,000.00 Amendment No. 2 is currently being executed by the City that will provide construction phase services for the installation of residual collection equipment in the Secondary Basins at the Water Treatment Plant.

This proposed ordinance will authorize a \$4,527,732.00 Amendment No. 3 for design phase services for the Intake and Water Treatment Plant Improvements (primary basins, final basin nos. 3A and 3B, slide gates, butterfly valves, replacement of five (5) current vertical wells with larger diameter vertical wells, construction of horizontal collector wells to increase the overall raw water capacity of wells to 145 + MGD and construction of the associated raw water pipelines to connect the horizontal collector wells together with the existing well field).

Details Finances City's Estimate **Civil Rights and Equal Opportunity Department Approval** of Cost \$ 4,527,732.00 Subcontracting goals on this project were 15% MBE and 10% Bid or Lowest Contract WBE. The Contractor Utilization Plan was approved by the \$ NA FOR Proposal Data Cost Submitted Civil Rights and Equal Opportunity Department on April 30, **AMENDMENT** No .of Proposals Considered 2019 with 15% MBE and 10% WBE participation. Reason for rejecting lowest contract cost submitted The MBE/WBE participation will remain the same with this proposed amendment. **Grant Funding Contract Costs** Other Bidders or N/A Contractors Considered Submitted Is it good for the children? Yes. \$ NA FOR **AMENDMENT** How will this contribute to a sustainable Kansas City? This project will design reliable water treatment facilities for future demands. \$ \$ \$ \$ \$ \$ \$ \$ **Fund Sources** and Appropriation **Account Codes** 22-8010-807773-B-80002132 = \$4.527.732.00 For This Water Treatment Facilities Contract Project No 80002132 Source of Future Operating Funds Maximum Amount of Proposed AMENDMENT \$ 4,527,732.00 Amount of \$ Contingency Engineering &

Estimated Duration of Contract:

Completed by May 31, 2023

Fact Sheet Prepared by: Date:

Leona Walton 9/30/2021

Contracts Manager

Reviewed by: Date: 10/1/2021 D. Matt Bond

Deputy Director

Reference Numbers: Contract No. 9472 / Project No. 80002132

Administration

TOTAL

Do Pass	Hold
Do Pass (as amended)	W/o Recommendation
Committee Sub.	Do Not Pass

\$

\$

4,527,732.00