



Legislation Details (With Text)

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File created: 8/5/2020 **In control:** Board of Directors
On agenda: 8/26/2020 **Final action:** 8/26/2020
Title: Contract No. 2000610
Yard Piping, Valves and Venturi Meters Replacement at Water Works Park
CIP# 115001 / BCE Score: 65.4
Sponsors: Cheryl Porter, Grant Gartrell
Indexes: Water Operations
Code sections:
Attachments: 1. 2000610 Procurement Report, 2. 2000610 Cost Tabulation

Date	Ver.	Action By	Action	Result
8/26/2020	1	Board of Directors	Approved	Pass
8/12/2020	1	Operations and Resources Committee	Recommended for Approval	

Contract No. 2000610

Yard Piping, Valves and Venturi Meters Replacement at Water Works Park

CIP# 115001 / BCE Score: 65.4

Agenda of: August 26, 2020

Item No.: **2020-268**

Amount: \$49,467,913.00

TO: The Honorable
Board of Directors
Great Lakes Water Authority

FROM: Sue F. McCormick
Chief Executive Officer
Great Lakes Water Authority

DATE: August 5, 2020

RE: **Contract No. 2000610**
Yard Piping, Valves and Venturi Meters Replacement at Water Works Park
Vendor: LGC Global, Inc.

MOTION

Upon recommendation of Cheryl Porter, Chief Operating Officer - Water and Field Services, the Board of Directors (Board) of the Great Lakes Water Authority (GLWA), authorizes the Chief Executive Officer (CEO) to **enter into Contract No. 2000610 “Yard Piping, Valves and Venturi Meters Replacement at Water Works Park” with LGC Global, Inc., at a cost not to exceed \$49,467,913.00 for a duration of 1,780 days;** and authorizes the CEO to take such other action as may be necessary to accomplish the intent of this vote.

BACKGROUND

The existing water transmission yard piping at the GLWA Water Works Park Water Treatment Plant (WWP) was installed between 1875 and 1992, with the majority installed prior to 1960. As WWP expanded over the years since 1875, yard piping was added in various decades to keep pace with the system’s growing water demands. As a result, the existing network is inefficient and should be reconfigured so that it is hydraulically efficient.

This construction contract will involve constructing new water transmission yard pipes, isolation valves, pressure reducing valves, venturi flow meters, and related appurtenances. The existing yard piping, valves, venturi meters and related equipment will be removed from the site. The project will also address the water production flow metering for WWP. Other significant work to be performed under this contract includes constructing a new and modern security entrance with the appropriate security features for WWP. This is of importance since WWP is considered the tour location for the public when educating others about water treatment. Lastly, this project is being coordinated with the WWP to Northeast transmission main project. All of this construction has to occur while still meeting water demands in the system and therefore, will have to work around operations.

JUSTIFICATION

The existing yard piping and valves leak and are largely past their useful service life. The existing water production flow meters are 60 to over 100 years old and are beyond repair. Moreover, the existing yard piping network and water production meter locations are inefficient and need reconfiguration to provide a hydraulically efficient system. Removing all the existing yard piping and its related equipment will free the site of old, unused piping to make future earthwork activities more efficient. The new water transmission yard piping, valves, and water production flow meters will provide a reliable and redundant system of transmitting and measuring flows into the water transmission system from WWP.

FINANCIAL PLAN IMPACT

Summary: Sufficient funds are provided in the financial plan for this project.

Funding Source: Water Construction Bond

Cost Center: Water Engineering

Expense Type: Construction (5519-882111.000-616900-115001)

Estimated Cost by Year and Related Estimating Variance: See table below.

Fiscal Year

FY 2021 Budget	\$ 5,080,000.00
FY 2022 Budget	12,479,000.00
FY 2023 Budget	20,106,000.00
FY 2024 Budget	19,548,000.00
FY 2025 Budget	<u>8,246,000.00</u>

Financial Plan Estimate \$ 65,459,000.00

Proposed Contract Award 49,467,913.00

Positive	Estimating	Variance	\$	18,991,087.00
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This positive estimating variance will be adjusted to capital reserves.

SAVINGS, COST OPTIMIZATION, AND REVENUE ENHANCEMENT IMPACT

This project is the replacement of the yard piping and venturi meters at Water Works Park Water Treatment Plant. Cost savings are not determinable at the time of this award.

COMMITTEE REVIEW

This item was presented to the Operations and Resources Committee at its meeting on August 12, 2020. The Operations and Resources Committee recommended that the GLWA Board adopt the resolution as presented.

SHARED SERVICES IMPACT

This item does not impact the shared services agreement between GLWA and DWSD.