Legislation Details (With Text)

File #:	2019-272	**Version:**	1	**Name:**	
Type:	Resolution			**Status:**	Passed
File created:	7/2/2019			**In control:**	Board of Directors
On agenda:	7/24/2019			**Final action:**	7/24/2019
Title:	Contract No. 1803709 Conveyance System Infrastructure Improvements CIP# 222004 / BCE Score: 68.2				
Sponsors:	Cheryl Porter, Todd King				
Indexes:	Water Operations				
Code sections:					
Attachments:	1. 1803709 Procurement Report, 2. 1803709 Cost Summary, 3. 1803709 Vendor Survey, 4. 1803709 CIP Attachment				

Date	Ver.	Action By	Action	Result
7/24/2019	1	Board of Directors	Approved	Pass
7/24/2019	1	Operations and Resources Committee	Recommended for Approval	Pass

Contract No. 1803709
Conveyance System Infrastructure Improvements
CIP# 222004 / BCE Score: 68.2

Agenda of July 24, 2019
Item No.: **2019-272**
Amount: $4,575,838.00

TO: The Honorable
Board of Directors
Great Lakes Water Authority

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

DATE: July 2, 2019

RE: **Contract No. 1803709**
Conveyance System Infrastructure Improvements
Vendor: Applied Science, 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. 1803709 "Conveyance System Infrastructure Improvements" with Applied Sciences, Inc., at a cost not to exceed $4,575,838.00 for a duration of 1,396 days;** and authorizes the CEO to take such other action as may be necessary to accomplish the intent of this vote.

BACKGROUND

The GLWA sewer system (approximately 180 miles of sewers ranging from 48" through 168") is eighty (80) years old on an average, with much of the infrastructure more than 100 years old. The hatches and access covers secure operations and maintenance access points throughout the system for items such as the outfall gates, in-system storage devices (ISD), and valve regulators (VRs). The outfall gates, ISDs, and VRs are all critical elements that control and divert flows throughout the system.

Due to years of use and weathering, many of the hatches have become deteriorated and dangerous to operate and require replacement. The outfall gates are well past their design life and need either rehabilitation or replacement. The existing ISDs are past their design life and are using outdated technology. The VR gates are in need of condition assessment inspections to determine if rehabilitation or replacement is required.

JUSTIFICATION

Most of the existing sewers within the GLWA collection system are older than 80 years. The collection system is comprised of ISDs, VRs, VR gates, level sensors, backwater gates, and access hatches. Due to the age and various deterioration of these aging infrastructure, immediate repair and/or rehabilitation is often required. Contract No. 1803709 is necessary to evaluate and design rehabilitation of these collection system elements.

Project Objectives

(1) Perform site investigations to complete condition assessments and gather as-built information as required to prepare a set of biddable contract documents

(2) Provide material and equipment recommendations for the rehabilitation or replacement of hatches, access covers, ISDs, outfall gates and VR gates and actuators

(3) Prioritize the construction of elements within construction contract to address operational and safety requirements

(4) Prepare a complete set of biddable construction documents

(5) Assist GLWA in assessing the responsiveness of bids received for construction phase

(6) Perform complete construction phase services

(7) Provide the required close-out assistance upon the completion the construction contract, as required by GLWA.

FINANCIAL PLAN IMPACT

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

Funding Source: Wastewater Construction Bond

Cost Center: Field Engineering

Expense Type: Construction (5421-892411.000-617950-222004)

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

Fiscal Year	
FY 2019 Budget	$ 500,000.00
FY 2020 Budget	1,500,000.00
FY 2021 Budget	1,000,000.00
Financial Plan Estimate	$3,000,000.00
Proposed Contract Award	4,575,838.00
Negative Estimating Variance	($1,575,838.00)

This negative estimating variance to be funded from capital reserves.

SAVINGS, COST OPTIMIZATION, AND REVENUE ENHANCEMENT IMPACT

This project provides for the evaluation and recommendations on repair/rehabilitation for the sewers in the GLWA sewer system. Cost savings are not determinable at the time of award.

COMMITTEE REVIEW

This item was presented to the Operations and Resources Committee at its Special Meeting on July 24, 2019. The Operations and Resources Committee unanimously 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.