



## Legislation Details (With Text)

**File #:** 2022-273      **Version:** 1      **Name:**  
**Type:** Resolution      **Status:** Passed  
**File created:** 6/28/2022      **In control:** Board of Directors  
**On agenda:** 7/27/2022      **Final action:** 7/27/2022  
**Title:** Contract No. 2004538  
Instrumentation and Control System Replacement at St. Aubin,  
Seven Mile, and Leib CSO Facilities  
Vendor: Burns and McDonnell  
**Sponsors:** Navid Mehram  
**Indexes:** Wastewater Operations  
**Code sections:**  
**Attachments:** 1. 2004538.Cost Summary, 2. 2004538.Vendor Response Follow-up, 3. 2004538.Procurement Board Report-RFP

Date	Ver.	Action By	Action	Result
7/27/2022	1	Board of Directors	Approved	Pass
7/13/2022	1	Operations and Resources Committee	Recommended for Approval	Pass

**Contract No. 2004538**  
**Instrumentation and Control System Replacement at St. Aubin,  
Seven Mile, and Leib CSO Facilities**  
**Vendor: Burns and McDonnell**

Agenda of: July 27, 2022  
Item No.: **2022-273**  
Amount: \$7,375,000.00

**TO:** The Honorable  
Board of Directors  
Great Lakes Water Authority

**FROM:** Suzanne R. Coffey, P.E.  
Chief Executive Officer  
Great Lakes Water Authority

**DATE:** July 1, 2022

**RE:** **Contract No. 2004538**  
**Instrumentation and Control System Replacement at St. Aubin, Seven Mile, and  
Leib CSO Facilities**  
**Vendor: Burns and McDonnell**

## **MOTION**

Upon recommendation of Navid Mehram, Chief Operating Officer - Wastewater Operating Services, the Board of Directors (Board) of the Great Lakes Water Authority (GLWA), authorizes the Chief Executive Officer (CEO) to **enter into Contract No. 2004538, “Instrumentation and Control System Replacement at St. Aubin, Seven Mile, and Leib CSO Facilities” with Burns and McDonnell, at a cost not to exceed \$7,375,000.00 for a duration of 786 days;** and authorizes the CEO to take such other action as may be necessary to accomplish the intent of this vote.

## **BACKGROUND**

GLWA operates nine (9) Combined Sewer Overflow (CSO) facilities. Three of the facilities, St Aubin, Seven Mile, and Leib need control system upgrades. Said facilities utilize Allen-Bradley Programmable Logic Controllers (PLC)-5s series, which are now over 20 years old and are no longer supported, and the manufacturer has discontinued the product. Programmable Logic Controllers are the backbone of the control system and operating obsolete and unsupported products makes operations of these facilities vulnerable.

## **JUSTIFICATION**

The challenge in operating and specifically maintaining end-of-life equipment is when the electronic equipment fails and there are limited resources in obtaining reliable replacement parts. We have been able to reach out to secondhand dealers and third-party sellers to obtain parts, however, it is getting increasingly difficult, expensive, and risky that the secondhand part may fail out of the box.

Utilizing network equipment that does not comply with GLWA SCADA standards increases troubleshooting time and increases vulnerability to cyber security attacks.

## **FINANCIAL PLAN IMPACT**

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

**Funding Source:** Sewer Construction Fund

**Cost Center:** Wastewater

**Expense Type:** Construction (5421-892211.000-616900-260619)

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

Fiscal Year

FY 2023 Plan	\$2,065,000.00
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FY 2024 Plan	2,071,000.00
FY 2025 Plan	<u>1,187,000.00</u>
Financial Plan Estimate	\$5,323,000.00
Proposed Contract Award	7,375,000.00
Estimating Variance:	(\$2,052,000.00)

The FY2023-2027 CIP Plan total project cost is \$7,389,000.00, with a project start date in FY2022. The financial plan presented reflects the planned spending for fiscal years 2023 through 2027. The award of this contract creates a negative estimating variance of (\$2,052,000.00) due to a FY2023 start. This variance will be funded from Capital Reserves.

### **COMMITTEE REVIEW**

This item was presented to the Operations and Resources Committee at its meeting on July 13, 2022. 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.