



Financial Services Group
Procurement
735 Randolph Street, Suite 1508
Detroit, Michigan 48226
Phone: 313-964-9157

Memorandum

To: Honorable Board of Directors

From: Daniel Edwards, Procurement Manager

Date: February 26, 2019

RE: GLWA-CS-102 "Professional Engineering Services for Rehabilitation of Pump Station No. 1 Improvements", Scrivener's Error

GLWA-CS-102 (Professional Engineering Services for Rehabilitation of Pump Station No. 1 Improvements), was presented to and approved by the GLWA Board of Directors on December 12, 2018. The amount of the contract should be \$4,986,249.00. This is indicated in the title line at the top of the letter and elsewhere throughout the Board Letter and Procurement Report. However, in the motion it is written as \$4,636,249.00.

Please consider this a communication of a Scrivener's error as it pertains to the dollar amount of the contract.



Daniel Edwards
Procurement Manager



Board of Directors
735 Randolph Street, Suite 1900
Detroit, Michigan 48226
(313) 224-4785

GLWA-CS-102
Professional Engineering Services for Rehabilitation of Pump Station No. 1
Improvements

Agenda of: December 12, 2018

Item No.: **2018-1036**

Amount: \$4,986,249

TO: The Honorable
Board of Directors
Great Lakes Water Authority

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

DATE: December 4, 2018

RE: GLWA-CS-102
Professional Engineering Services for Rehabilitation of Pump
Station No. 1 Improvements

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. GLWA-CS-102, “Professional Engineering Services for Rehabilitation of Pump Station No. 1 Improvements” with Wade Trim Associates, at a cost not to exceed \$4,636,249.00 for a duration of Sixty (60) months;** and authorizes the CEO to take such other action as may be necessary to accomplish the intent of this vote.

BACKGROUND

GLWA operates two raw sewage pumping stations: Influent Pumping Station No. 1 (PS-1) and Influent Pumping Station No. 2 (PS-2), at the Water Resource Recovery Facility. Raw wastewater (influent) from the collection system flows to PS-1 through the Detroit

River Interceptor (DRI) and the Oakwood Interceptor and is pumped to an elevation that allows the wastewater to flow through primary treatment by gravity.

PS-1 was constructed in the late 1930s and has eight constant speed pumps of various capacities and has a firm capacity (defined as a single largest pump out of service) of 1,025 million gallons per day (MGD). This is the majority of the 1,700 (MGD) conveyance capacity required by the Water Resource Recovery Facility (WRRF) as required by its National Pollutant Discharge Elimination System (NPDES) permit. The pumps at PS-1 were last rehabilitated in 2004 and 2005. Flow measurement from PS-1 is currently estimated using pump curves or using 1960s technology.

JUSTIFICATION

This project is necessary because PS-1 provides the majority of the NPDES required pumping capacity for the WRRF, and the eight pumping units are in need of rehabilitation due to normal operational wear and tear over the past 14 years. Further reduction of the already reduced pumping capacities of these pumps may result in violation of the NPDES permit requirements for pumping capacity. In addition, there are reliability issues with the electrical components necessary to start the pumps. Also, since large amounts of grit enter PS-1, the flooded section where the pumps draw their water from will be studied to optimize grit distribution through all eight pumps. Flow measurement opportunities will be studied and improved if economically feasible. Finally, the mechanical, architectural, structural and electrical systems of the facility all have components that are past their useful life and therefore require repair or replacement.

FINANCIAL PLAN IMPACT

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

Funding Source: Wastewater Construction Bond

Cost Center: Wastewater Engineering

Expense Type: Construction (5421-892211.000-617950-211006)

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

Fiscal Year

FY 2019 Budget	\$ 442,000.00
FY 2020 Budget	1,593,000.00
FY 2021 Budget	178,000.00
FY 2022 Budget	310,000.00
FY 2023 Budget	178,000.00
FY 2024 Budget	<u>36,000.00</u>

Financial Plan Estimate	\$ 2,737,000.00
Proposed Contract Award	<u>4,986,249.00</u>
Negative Estimating Variance	\$ 2,249,249.00

SAVINGS, COST OPTIMIZATION, AND REVENUE ENHANCEMENT IMPACT

Cost savings are not determinable at the time of this award.

The award of this contract to the vendor creates a negative estimating variance of \$1,899,249.00. This variance will be funded from capital reserves.

Project estimate	\$ 2,737,000.00
Proposed award	<u>4,986,249.00</u>
Capital reserve adjustment	\$ (2,249,249.00)

COMMITTEE REVIEW

This item was presented to the Operations and Resources Committee at its meeting on December 12, 2018.

SHARED SERVICES IMPACT

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



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Procurement Report

Date: November 20, 2018
To: Sue McCormick, Chief Executive Officer
From: Sonya Collins, Procurement Manager
Re: Procurement Report

General Information			
Contract Number:	GLWA-CS-102	Project Owner:	Ali Khraizat
Contract Title:	Professional Engineering Services for Rehabilitation of Pump Station No. 1 Improvements		
Vendor:	Wade Trim Associates		
Budget:	Capital Project		
Contract Length:	Sixty (60) months		

Procurement Method

Competitively bid – Request for Proposal (RFP) Qualification Based Selection (QBS) – Evaluation Committee			
Advertised:	July 20, 2018	Addendums released:	3
Distributed to:	74	Downloaded by:	74
Response due date:	September 17, 2018	Responses received:	4

Negotiated Cost Schedule

Description	Original Proposal	Negotiated
Task 1: Project Kickoff Workshop	14,272	14,265
Task 2: Project Management	230,498	230,497
Task 3: Study Phase	1,667,160	1,697,065
Task 4: Preliminary Design Phase	441,386	441,394
Task 5: Final Design Phase	1,035,387	1,035,390
Task 6: Bid & Negotiation Phase	36,980	36,986
Task 7: Construction Assistance	687,929	687,392
Task 8: Engineering Representation Services	60,155	60,151
Task 9: System O&M Updating, SOPs, and Training	101,607	101,609
Task 10: Provisional Allowance for Stop Logs	680,094	Deleted
Task 11: Provisional Allowance (NTE*)	300,000	650,000
Task 12: Provisional Allowance- Vibration Analysis	31,500	31,500
Totals	\$ 5,286,968	\$ 4,986,249

*Not to exceed (NTE)



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Provisionary Allowance is an amount included in the Contract Price to reimburse the Consultant for the cost to furnish and perform Work that is uncertain. Any remaining balance upon Final Completion shall be retained by the GLWA and not paid to the Consultant.

Benchmarking was completed by comparing the proposals for this project. This analysis confirmed that rates are in competitive range. The rate comparisons and allowances (if any) are illustrated in the attached document labeled cost tabulation.

Evaluation and Scores

Evaluation Committee: (Designation – Organization)
A – GLWA
B – GLWA
C – GLWA
D – Oakland
E – DWSD

The Evaluation Committee independently reviewed and scored the proposals in accordance with GLWA’s policy. The rankings are below.

Maximum Score Possible:		
Vendor (Highest to lowest score)	Score	Proposed Cost before Negotiations
Wade Trim Associates, Inc.	396.90	\$ 5,286,968
CDM Smith Michigan Inc	395.40	\$ 6,366,762
Brown & Caldwell, LLC	378.50	\$ 5,356,129
Black & Veatch Ltd. of Michigan	348.80	\$ 8,154,184

Other Data Requested by GLWA Board Members

Minority Business Enterprise (MBE): No

Detroit Based Business (DBB): No

Small Business Enterprise (SBE): No

Sub-Contractor(s) List:

Hazen and Sawyer

PCI

Nth

Clemson

FlowServe

Walsh



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Titus
WSI
Hibbard Inshore

Vendor Response Survey: Not Applicable

Litigation

This vendor is not currently nor has been previously involved in any litigation with the GLWA.

Financials

A financial risk assessment was performed by the GLWA via Dun & Bradstreet and was determined that the selected vendor has the financial capacity to perform the tasks under this contract. This information is available for the Board of Directors to review upon request.