

CLAYTON COUNTY WATER AUTHORITY
Regular Board Meeting

Present at the meeting were: Chairman Robin Malone, Vice Chair Marie Barber, Secretary/Treasurer Rodney Givens, Board Member Mike Thomas, Board Member John Chafin, Board Member Dr. Cephus Jackson, Emma Godbee, General Manager H. Bernard Franks, Assistant General Manager Teresa Worley, Assistant General Manager Keisha Thorpe, Legal Counsel Winston Denmark, Executive Coordinator Rhonda Maxwell and other CCWA staff and visitors.

Invocation

Board Member John Chafin introduced Water Production Plant Operator Stephen Gibbs to perform the invocation.

Adoption of Agenda

UPON MOTION by Dr. Cephus Jackson and second by Rodney Givens it was unanimously

RESOLVED to approve the agenda as presented.

Approval of Minutes

Chairman Robin Malone called for any omissions or additions to the Minutes of the Regular Board Meeting held on September 1, 2022.

UPON MOTION by Dr. Cephus Jackson and second by Rodney Givens, it was unanimously

RESOLVED to approve the Minutes of the Regular Board Meeting held on September 1, 2022.

Financial and Statistical Reports

Finance Director Allison Halron reviewed the financial information distributed to the Board for the period ending August 31, 2022. Information only, no action taken.

New Business

Jonesboro and Noah's Ark Pump Station Design Task Order Amendment #1: Water Production Director Coty McDaniel presented Jonesboro and Noah's Ark Pump Station Design Task Order Amendment #1.

Clayton County Water Authority owns and operates the Jonesboro Re-pump Station (RPS), located on Old Morrow Road, and the Noah's Ark RPS, located on Noah's Ark Road. Both

RPSs pump water from ground storage tanks located onsite into the distribution system. The Jonesboro RPS receives its water from the W.J. Hooper Water Production Plant (WPP), and the Noah's Ark RPS receives its water from the Terry R. Hicks and J.W Smith WPPs. The operation of these RPSs play a critical role in supplying water to our customers. As a part of CCWA's 2020 Strategic Master Plan, redundancy, and reliability improvements (including the addition of standby power generators) were identified for these two facilities. Based on site visits and discussions with engineers, it was decided that additional improvements were needed at the RPSs and should be completed at the same time as the redundancy improvements. In September 2021, the Board of Directors (BOD) approved Task Order HS-RE-21-06 for Hazen and Sawyer to develop a detailed design and bid package for Jonesboro and Noah's Ark Repump Station Improvements. The improvements include the following:

- Jonesboro Repump Station:
 - Remove one engine driver
 - Replace existing electrical gear, pumps, motors, and pump discharge control valves with new in-kind equipment
 - Add one new pump, variable frequency drives (VFDs) for all pumps, a standby diesel generator to operate the entire RPS facility, air-conditioned space for the new VFDs, and resistance thermal detector and vibration (RTD/VIB) sensors for all motors to incorporate this data into our preventative maintenance program
 - Revise control system to accommodate VFD operation and controls

- Noah's Ark Repump Station:
 - Remove engine driver from two pumps in "A" building
 - Replace existing electrical gear, pumps, motors, and isolation (aka 'street') valves with new in-kind equipment
 - Add VFDs for all pumps, a standby diesel generator to service building "A", air-conditioned space for the new VFDs, and RTD/VIB sensors for all motors to incorporate this data into our preventative maintenance program
 - Revise control system to accommodate VFD operation and controls

AMENDMENT BACKGROUND

When Task Order HS-RE-21-06 was developed, the recommended approach to house electrical equipment and VFDs was to use prefabricated buildings at each site. A similar building had recently been installed successfully at the W.J. Hooper WPP as part of a generator project, and prefabricated building supply chain issues had not been a concern. However, since the time the Task Order was approved, many items have led the engineering team to recommend that the prefabricated building be replaced with traditional 'stick built' electrical buildings. These reasons include:

- Project delay with prefabricated buildings is estimated to be 4 to 6 months
- The anticipated size of the electrical building that will be needed has increased as design has progressed, making prefabricated buildings less cost-efficient

- Recent information provided by manufacturers indicates that prefabricated buildings are either not available or cannot be ordered in a specified layout and size
- Traditional buildings will allow the contractor to construct the buildings at their pace, without waiting for equipment

Amendment #1 to Task Order HS-RE-21-06 would remove the assumption that electrical buildings will be prefabricated and would add detailed design of two electrical buildings (including Structural, Architectural, and Building Mechanical design) into the construction contract documents.

AMENDMENT COST:

The cost of services included in Amendment No. 1 (detailed design of two electrical buildings and building engineering expertise to extend through bid phase services) is \$164,770. The anticipated construction cost savings is \$990,000 (see below) based on current market prices. The overall savings of changing the electrical building type would be approximately \$825,000 (\$990,000 construction cost savings less \$164,770 design cost increase).

Type of building	Construction Cost per Area	Total Construction Cost*
Prefabricated	\$800/sq ft.	\$1,440,000
Traditional 'Stick-built'	\$250/sq ft.	\$ 450,000
Net Cost	\$550/ sq. ft.	\$ 990,000
* Estimated based on are needed for both buildings = 1800 sq ft.		

Recommendation:

CCWA staff request approval for the General Manager to execute Amendment No. 1 to Task Order HS-RE-21-06 to Hazen and Sawyer for an amount not to exceed \$164,770.00. The amendment would be added to the existing Task Order HS-RE-21-06 amount of \$570,280.00, to bring the total, not-to-exceed contract amount to \$735,050.00.

UPON MOTION by Dr. Cephus Jackson, second by John Chafin, it was unanimously

RESOLVED to award Amendment No. 1 Task Order HS-RE-21-06 to Hazen and Sawyer for an amount not to exceed \$164,770.00. The amendment would be added to the existing Task Order HS-RE-21-06 amount of \$570,280.00, to bring the total, not-to-exceed contract amount to \$735,050.00.

PFAS Treatment Technology Evaluation Task Order Recommendation: Water Production Director Coty McDaniel presented the PFAS Treatment Technology Evaluation Task Order Recommendation.

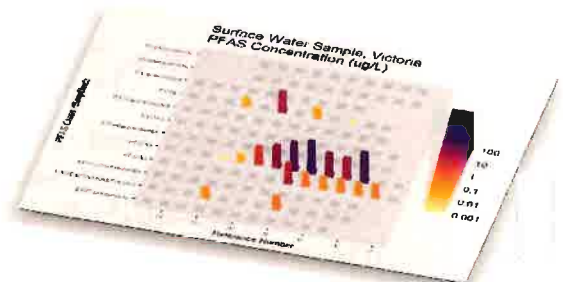
Per- and polyfluoroalkyl substances (PFAS) are a group of manufactured chemicals that have been used in industry and consumer products since the 1940s and are persistent in the environment because they are slow to break down. Studies have shown that exposure to some PFAS may be linked to harmful health effects, and in 2016, the U.S. Environmental Protection Agency (EPA) set Health Advisories for two of these compounds – PFOA and PFOS. The EPA recently released lower Health Advisories for these compounds and added Health Advisories for two additional compounds – PFBS and GenX. It is expected that the EPA will release a National Primary Drinking Water Regulation for PFAS in the fall of 2022, and CCWA would like to investigate options for implementing a PFAS treatment technology at our Water Production Plants (WPPs).

CCWA recognized the need early on to identify PFAS compounds in our water supply and to look for the best ways to treat these compounds. In 2019, we simulated our treatment plants in a laboratory and treated our reservoir water with four different technologies. While the focus of this study was taste and odor compounds, CCWA elected to also evaluate the removal of PFAS compounds. These experiments showed that two of the technologies – membranes and granular activated carbon (GAC) – did the best job at removing the small levels of PFAS compounds that were found to be present in our water supply. When the EPA released new, lower Health Advisories in June 2022, CCWA was quickly prepared to use information from this prior evaluation and the results of a comprehensive sampling program that we have been conducting since early 2020.

It is expected that the EPA will release a National Primary Drinking Water Regulation for PFAS by December 2022 and that compliance will be required by the end of 2026. The PFAS Treatment Technology Evaluation scope of work (summarized below) will identify the most cost-effective approach for meeting these requirements throughout our entire service area and will provide CCWA with a technology implementation timeline for budgeting and planning purposes.

Task 1 - PFAS Data Assessment and Sampling Recommendation

This task will include an analysis of historical PFAS sampling results (from March 2020 to present) and provide recommendations for future sampling. A predictive analytics toolset will be used to predict sources and pathways of compounds. This task also includes the



development of a dynamic PFAS dashboard for CCWA staff to continually evaluate results.

Task 2 Benchtop Assessment of PFAS Treatment Alternatives

This task will develop and execute a plan for testing various PFAS treatment alternatives on all finished source waters and potential future blended raw water. A Rapid Small Scale Column Test (RSSCT) Plan will test seven different adsorptive medias on the finished water from our three WPPs. The tests will be conducted by Battelle Laboratories for approximately 30-45 days and will evaluate the use of Granular Activated Carbon, Ion Exchange, and Fluoro-Sorb. This task will also include analysis of results for PFAS and other contaminants of emerging concern.



Image source:
<https://pubs.acs.org/doi/abs/10.1021/acs.iecr.0c02290>

Task 3 – PFAS Treatment Technology Assessment

This task will assess alternatives for PFAS treatment at our three WPPs. The analysis will include technologies included in RSSCT plus ceramic membranes which are being evaluated separately. The task will include identifying raw water and interplant piping changes required for implementation, developing capital and O&M cost estimates, and providing a recommended implementation technology and timeline for each WPP.

The task order schedule and budget are shown below.

Task	Budget	2022			2023			
		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
Task 1 – PFAS Data Assessment and Sampling Recommendation	\$ 54,600	X	X	X				
Task 2 – Benchtop Assessment of PFAS Treatment Alternatives	\$256,500 ^a	X	X	X	X	X	X	
Task 3 – PFAS Treatment Technology Assessment	\$ 96,400		X	X	X		X	X
Total	\$407,500							

^a Includes \$180,000 RSSCT testing allowance for Battelle Laboratories

Recommendation:

CCWA staff approval of the PFAS Treatment Technology Evaluation Task Order to Jacobs Engineering Group in an amount to not exceed \$407,500 and authorization for the General Manager to sign the Task Order.

UPON MOTION by Dr. Cephus Jackson, second by John Chafin, it was

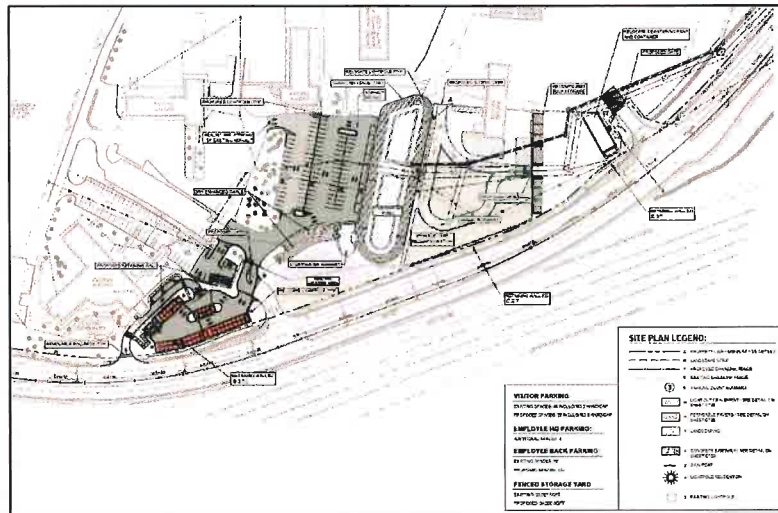
RESOLVED to award the PFAS Treatment Technology Evaluation Task Order to Jacobs Engineering Group in an amount to not exceed \$407,500, authorizing the General Manager to sign the Task Order. In favor: Robin Malone, Marie Barber, John Chafin, Dr. Cephus Jackson, Mike Thomas, Emma Godbee. Abstain: Rodney Givens. Motion Passes.

Headquarters Site Reconfiguration Construction Contract Recommendation:

Engineering Director Kelly Taylor presented the Headquarters Site Reconfiguration Construction Contract Recommendation.

Clayton County's Transportation and Development Department (T&D) is currently undertaking a construction project for Widening of Battle Creek Road and Mt. Zion Boulevard. When the impacts to CCWA property became known, CCWA began to work with Integrated Science & Engineering to develop a design for reconfiguration of portions of the site. In January 2019, CCWA and Clayton County executed a purchase agreement for the impacted CCWA property and associated easements in the amount of \$974,800. In 2021, Integrated Science & Engineering finalized detailed design and construction documents for the CCWA Headquarters Site Reconfiguration. A request for bids was issued in December 2021, for a project comprised of the following main components:





- Reconfiguration of the visitor parking lot and driveway, including installation of pervious pavers, an ADA handicap ramp, and a retaining wall
- Enlarging the existing storm water management facility located between the employee parking and the secure storage yard and enhancing existing swales along employee parking to provide water quality and detention
- Installing boundary fence and three, electric, secured swing gates/slide gates
- New dewatering ramp and retaining wall, relocation of dewatering container and connection to the sewer
- Relocation of bulk storage
- Milling and paving employee parking lot and adding landscape islands
- Relocation of internal security light poles

Bids for the project were due March 1, 2022, and no bids were received. After receiving feedback from contractors, staff explored multiple options for progressing the project, including:

- Rebidding the project
- Splitting project into separate components
- Using an existing on-call contractor
- Piggybacking on an existing contract with Clayton County
- Utilizing Clayton County's Contract for Widening of Battle Creek Road and Mt. Zion Boulevard
- Utilizing the State of Georgia's Convenience Contract for Indefinite Quantity Construction

After evaluation and discussions with the engineering team, CCWA opted to further investigate the use of Clayton County's existing road widening contract and the State's

Contract for Indefinite Quantity Construction. The options for use of these contracts are summarized below.

Contract Vehicle	Work Authorization	Contractor
Clayton County Widening of Battle Creek Rd and Mt Zion Blvd (Bid #20-95)	Change Order to Contract and Intergovernmental Agreement with Clayton County	C.W. Matthews Contracting Co., Inc
Georgia Department of Administrative Services, State Purchasing Division Statewide Convenience Contract for Indefinite Quantity Construction (Contract 99999-S20200901)	Work Order under Contract	JOC-Construction, LLC

CCWA provided CW Matthews and JOC-Construction with project bid documents, red-lined with items addressed during the addendum period. By August 2022, we had received the following project pricing:

- C.W. Matthews Contracting Co., Inc - \$2,829,140.90
- JOC-Construction, LLC - \$2,455,369.63

Recommendation:

CCWA staff recommends authorizing CCWA to utilize Georgia Department of Administrative Services, State Purchasing Division Statewide Convenience Contract for Indefinite Quantity Construction (Contract 99999-S20200901) to issue a Work Order to JOC-Construction, LLC in an amount not to exceed \$2,455,369.63 for the Headquarters Site Reconfiguration Project.

Staff also recommends award of the project and to authorize the General Manager to execute the Work Order, dependent on review of bonds and insurance.

UPON MOTION by John Chafin, second by Dr. Cephus Jackson, it was unanimously

RESOLVED to authorize CCWA to utilize Georgia Department of Administrative Services, State Purchasing Division Statewide Convenience Contract for Indefinite Quantity Construction (Contract 99999-S20200901) to issue a Work Order to JOC-Construction, LLC in an amount not to exceed \$2,455,369.63 for the Headquarters Site Reconfiguration Project. General Manager is authorized to execute the Work Order, dependent on review of bonds and insurance.

Walnut Creek Lift Station Services During Construction Task Order Amendment

Recommendation: Engineering Director Kelly Taylor presented a Walnut Creek Lift Station Services During Construction Task Order Amendment Recommendation.

The Walnut Creek Lift Station, located on SLR Boulevard in Lovejoy, accepts flows from three lock-down facilities, the surrounding sewer subbasin, and the LaCosta Lift Station. In 2019, the Walnut Creek Lift Station was identified as in need of replacement due to capacity and maintenance concerns. In August 2019, the Board of Directors (BOD) approved a Task Order for Hazen and Sawyer (Hazen) to develop a detailed design of a new lift station and support CCWA with bidding the project. In August 2020, the BOD awarded a contract for construction of the new Walnut Creek Lift Station to Reynolds Construction, LLC, and authorized a Task Order for Hazen to complete services during construction (SDCs).

Reynolds Construction received a notice to proceed with the Walnut Lift Station Replacement on December 4, 2020. The project was scheduled to be completed by August 30, 2021. The project has since been delayed substantially for the following reasons:

- Periods of contractor staff shortages due to COVID,
- Material delays associated with supply chain issues, and
- Changes in pump manufacturer preferences

Work change directives have been approved to extend the contract by 440 days. The new Walnut Creek Lift Station was placed into service at the end of June 2022, and the contractor is completing grading, site/civil work, and punch list items. The extended contract now has a Substantial Completion date of October 15, 2022, and a Final Completion date of November 14, 2022. Amendment #1 to Task Order HS-RE-20-02 would increase the level of effort for two tasks from the original Task Order:

- **Task 1 – Construction Administration**

Task 1 of the original Task Order includes contract administration activities, such progress meetings, project controls, submittal reviews, and site visits. The Task Order Amendment would increase the number of hours included under this task by 216 hours to cover contract administration for the additional 440 days of the contract. This is equivalent to an increase in less than 3.5 hours per week on average during the extended contract period.

- **Task 2 – Construction Inspection**

The original Task Order included a Resident Project Representative (RPR) on a part-time basis, with up to 733 hours over the active construction period. The Task Order Amendment would increase the number of hours for the RPR from 733 to 813 hours, or by 80 hours. This increase would cover the RPR hours needed to maintain the same level of service with additional construction days added to the contract.

Recommendation:

CCWA staff recommends awarding Amendment 1 to Task Order HS-RE-20-02 to Hazen and Sawyer, in the amount of \$47,703. The Amendment would be added to the currently

authorized amount of \$361,817, to bring the total, not-to-exceed Task Order amount to \$409,520.

Staff also recommends the CCWA Board's authorization for the General Manager to execute the Task Order.

UPON MOTION by Mike Thomas, second by Rodney Givens, it was unanimously

RESOLVED to award Amendment 1 to Task Order HS-RE-20-02 to Hazen and Sawyer, in the amount of \$47,703. The Amendment would be added to the currently authorized amount of \$361,817, to bring the total, not-to-exceed Task Order amount to \$409,520, authorizing the General Manager to execute the Task Order.

Valve Maintenance Trailer Purchase Recommendation: Distribution & Conveyance Director Lamar Hamlin presented a Valve Maintenance Trailer Purchase Recommendation.

Wachs Standard LX trailer includes the ERV-750 extended reach operator with a reach of 13 feet (3.96 meters) and offering a powerful 750 ft-lbs. of torque. The Standard LX comes complete with a wireless handheld controller with datalogger, a powerful 500 CFM-11 in Hg vacuum, a 250-gal spoils tank utilizing Wachs exclusive hydraulic slide, tilt & rear discharge with a power latching rear door, a 2.5 GPM@3000 psi pressure washer system with 95-gallon water tank, an HPU with a HTMA Class II circuit, 10-gal reservoir, and a fan cooled heat exchanger, producing 8 gpm @ 2000 psi.

The purchase of the Standard LX Valve Maintenance Trailer will support the Authority's Valve Exercising Program. The Authority has approximately 25,000 valves throughout the distribution system that should be exercised on a regular basis to prevent valves from becoming stiff or stuck. The recommended valve exercise machine helps staff to work safely in ensuring that system valves are operating properly.

Wireless Handheld Controller



VENDOR	SOURCE	COST
Wachs Utility Products	Wachs List Pricing	\$100,066.68

Recommendation:

CCWA staff recommends funding the remaining \$63,739.78 for completion of the project.

UPON MOTION by Marie Barber, second by Dr. Cephus Jackson, it was unanimously

RESOLVED to approve the purchase of one (1) Standard LX Valve Maintenance Trailer from Wachs Utility Products in the amount of \$100,066.68 using Wachs standard price listing.

Executive Session

UPON MOTION by Marie Barber and second by Dr. Cephus Jackson, it was unanimously

RESOLVED to enter an Executive Session to discuss Legal.

UPON MOTION by Dr. Cephus Jackson and second by Marie Barber, it was unanimously

RESOLVED to exit Executive Session and return to open session.

Approval of Executive Session Minutes and Vote In Open Session Regarding (Legal) Matters Discussed in Executive Session

UPON MOTION by Marie Barber, second by Rodney Givens, it was unanimously

RESOLVED to approve the minutes of the Executive Session.

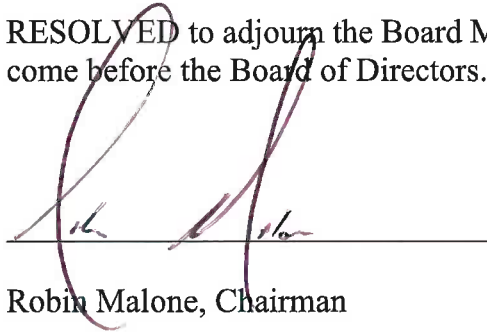
UPON MOTION by Dr. Cephus Jackson, second by Rodney Givens, it was unanimously

RESOLVED to approve the Georgia Outdoor Stewardship Grant Resolution.

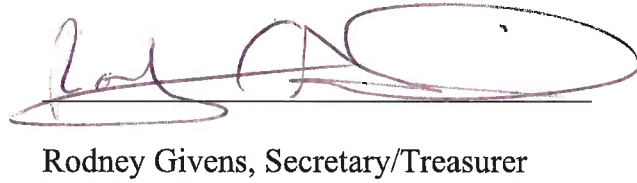
Adjourn

UPON MOTION by Dr. Cephus Jackson, second by Rodney Givens it was

RESOLVED to adjourn the Board Meeting at 3:44 p.m., there being no further business to come before the Board of Directors.



Robin Malone, Chairman



Rodney Givens, Secretary/Treasurer