



Office of the Chief Executive

735 Randolph Street, Suite 1900
Detroit, Michigan 48226

September 27, 2023

The Honorable
Board of Directors
Great Lakes Water Authority

RE: CEO Report – September 27, 2023

Chairperson Hendrix and Directors,

Outreach to and interaction with elected officials at all levels of government remains a top priority for me in my role as Chief Executive Officer. In the last month I, along with our executive team, have invested a significant amount of time into these efforts.

In addition to a continued series of state legislator meetings in Lansing and around our service area over the last month, we also conducted the second of our twice-yearly trips to Washington, D.C. to meet with our elected officials who serve at the federal level. In Washington, much of our conversations centered around new regulations for PFAS in drinking water. Like so many in our service sector, we realize we are passive receivers of this contaminant and are worried about the additional treatment responsibilities these regulations will require and the impacts to our affordability efforts that they will create. We will keep you updated on these important conversations.

Also at the state level, I was recently asked by the Infrastructure and Places Workgroup of the Governor's Growing Michigan Together Council to speak alongside the leadership of SEMCOG about the challenges currently facing water utilities in Michigan. The Council will produce recommendations for the Governor that support Michigan's population growth through investment in our people, places, and educational system. During my presentation, I detailed our biggest challenges (asset age and condition, system resiliency, funding), as well as our biggest opportunity (excess drinking water system capacity which can support economic development and population growth). I think it is critical that GLWA's voice continue to be heard in these important discussions, and I am committed to seizing as many opportunities as possible.

I was also pleased to recently attend the 15th Annual Tri-County Summit, where the legislative leaders of Macomb, Oakland and Wayne Counties came together to talk about regional progress toward regional goals on a variety of topics. Although water was not a specific topic this year, I believe there is value in continuing to build relationships across our founding counties.

Staying in the theme of outreach, but shifting to member outreach, GLWA recently partnered with SEMCOG and the Oakland County Water Resources Commissioner's Office to co-host Michigan Matters: A Community Water Legislation Update Forum.

The webinar included updates on the statewide water affordability and shutoff protection bill package that the workgroup being led by State Senator Stephanie Chang has been drafting, as well as an update on the stormwater utility bill.

Moving on to share some news about our ongoing resiliency efforts. As you may know, water utility leak detection and repair are an important aspect of reducing non-revenue water caused by water loss. To assist GLWA and its member partners with this effort, our Energy, Research and Innovation Team has been working for some time on a satellite leak detection pilot project. Phase one of the project was the identification of areas of possible leaks within the systems of GLWA, the city of Detroit, the city of Livonia, Oakland County and Redford Township. Phase two recently launched with a kick-off meeting designed to train representatives of our partnering agencies on the technology. More information can be found on Page 23 of this report.

I'll end as I always do by recognizing the outstanding efforts of our talented team members.

First, I am very pleased to share with you that at the Michigan Section of the American Water Works Association's (MI-AWWA) annual conference recently, GLWA was recognized with the group's 2023 Professional Excellence-Organization Award. We were given the award in recognition for our continued excellence in numerous areas, including implementing the Water Residential Assistance Program, as well as our innovative partnership with AWWA to provide association membership to our member partners.

Also, Systems Planning Services Management Professional Esther Baptiste, was awarded the MI-AWWA's Richard Husby Public Awareness Award, which recognizes an individual for significant accomplishments in promoting awareness and understanding of water supply issues among the general public, through the development and implementation of public education activities.

As a side note, GLWA had a good showing at the conference, with nearly 10 presentations given by our team members on a variety of technical topics, including various aspects of our response to the 120-inch transmission main break in 2022. A full list of presenters can be found on Page 17.

Following the lead of several of our water treatment plants, the Southwest Water Treatment Plant was awarded the President's Award from the Partnership for Safe Water. This award recognized treatment plants that have achieved the highest possible levels of individual filter effluent turbidity performance. To earn the award, Southwest demonstrated that they were achieving high levels of performance by not just meeting, but exceeding program goals over 12 months.

I'd also like to share that GLWA won a 2023 Mi-GMIS Citizen Impact Award for its efforts to ensure our public website is ADA compliant and provides accessibility for citizens in the communities that we serve. A special thanks to both IT and Public Affairs for their work to launch a new accessibility widget on www.glwater.org.

Our Finance Team continues to receive national recognitions! For the fourth year in a row, we were awarded the Certificate of Achievement for Excellence in Financial Reporting by the Government Finance Officers Association of the U.S. and Canada, and we received the National Institute for Governmental Purchasing Agency Advancement Award – Honorable Mention.

Finally, Temesha Holley, one of our Water Technician Apprentices was selected by our partners at Focus: Hope as their 2023 Pre-Apprentice and Apprentice of the Year. It's so nice to see our apprentices hard work being called out. We hope that she will have a long career here at GLWA!

PLANNING SERVICES

Asset Management Group (AMG)

In August, the Asset Management Group was busy working on the implementation of our new Enterprise Asset Management software. This new system is called NEXGEN and will replace our existing work management system, Oracle Work and Asset Management (WAM). Specific progress highlights include:

- Refinement and development of data standards
- Initiated data update and audit processes
- Initiated system acceptance testing
- Testing and implementation of the asset planning module for water meter assets. This module will allow GLWA to track asset degradation and investment needs supporting the development of capital or maintenance projects.
- Development of new work order types to help align GLWA's work execution metrics with industry standards

The Asset Management Group has also continued its work on asset onboarding including work to develop standards for asset onboarding into GLWA's Enterprise Asset Management systems (WAM & NEXGEN). This work has included refining roles and responsibilities to codify how assets will be onboarded to ensure consistency and accuracy.

Capital Improvement Planning Group (CIP)

The CIP team is pleased to announce a significant streamlining of the CIP alignment process for FY 25-29, thanks to the dedication of our entire CIP Delivery Team. Despite the challenging decisions we have made over the past few months, substantial progress has been achieved by the CIP Delivery Teams. Throughout August, our CIP team diligently monitored and refined the FY 25-29 CIP program portfolios. This was accomplished by considering cost and schedule updates from relevant projects and using unaudited actuals for year-end FY 2023. To ensure that the FY 25-29 CIP budget remains current, the CIP Team will continue to collaborate with the engineering teams to refine the program portfolio as we capture project updates and actuals for July and August.

Additionally, in the previous month, we released video training materials related to Chapter 5, "Cost and Schedule," of the Program Management Plan (PMP). Furthermore, the CIP Team hosted the second Change Leaders Session in August, with a focus on Design and Construction engineering. This session aimed to facilitate changes in the CIP delivery process that are aligned with the PMP.

PLANNING SERVICES (continued)

Change Leaders Session 2 – Project Reviews



Systems Planning Group

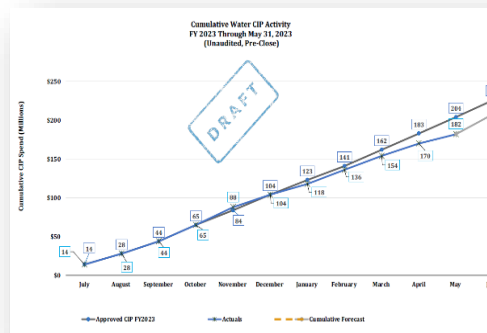
On August 2, the **Wastewater Best Practices Work Group** met at GLWA's Conner Creek Retention Treatment Basin (RTB). The meeting began with an update from Steven Eick from Michigan Department of Environment, Great Lakes, and Energy (EGLE) on RTB classification licensing and part 41 rules. Next, Branko Kerkez, founder of Hyfi, and Tim Hawkins, from the City of Dearborn, co-presented on a pilot project they are collaborating on related to real-time stormwater monitoring technology in Dearborn. This was followed by a round-robin discussion from members on recent storm events. The meeting concluded with a tour of the Conner Creek RTB facility. This was the final convening of this group for 2023. The next round of meetings will be scheduled to begin in early 2024.

The **Capital Improvement Plan (CIP) Work Group** met on August 8 to learn about the development of the FY2025 - FY2029 Capital Improvement Plan and the growth of GLWA's CIP Delivery Team. Consulting partner, AECOM, shared progress on the implementation of Capital Program Management.

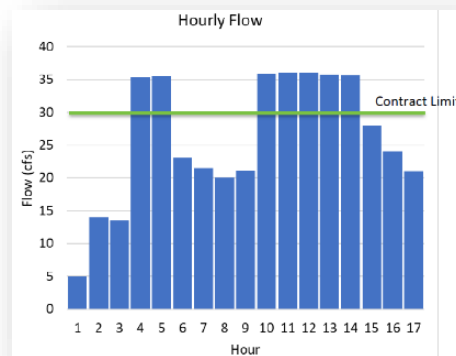
PLANNING SERVICES (continued)

GLWA's Procurement Team announced that it planned to host a Vendor Outreach event on September 25 at Laurel Manor in Livonia to provide opportunities for the vendor community to meet representatives from GLWA and to gain more understanding about working with the Authority.

The next meeting of the CIP Work Group will be held virtually and is scheduled for Tuesday, November 7.



The **Wastewater Analytics Task Force (WATF)** meeting held on August 11 began with opening remarks from GLWA's CEO, Sue Coffey. Next, based on feedback from members, Jody Caldwell, Chandan Sood, and Kevin Jankowski of GLWA discussed a new process to share information with members regarding sewer contract limit exceedances. This was followed by an update from Ed Hogan of Wade Trim on key MDOT projects including I-94, Gordie Howe International Bridge, I-375, and M-39. The meeting concluded with a presentation on Meter Dye Test Results and Meter Updates from Julie Aichler of CDM Smith. The next convening of the WATF is scheduled for Wednesday, October 25.



GLWA hosted an open discussion on August 14, with a group of member partners in the Downriver area located within the same operational zone, to share information about system operations and to understand concerns and collaboratively identify the options to address pressure concerns. Similar sessions are planned for Member Partners located in other operational zones.



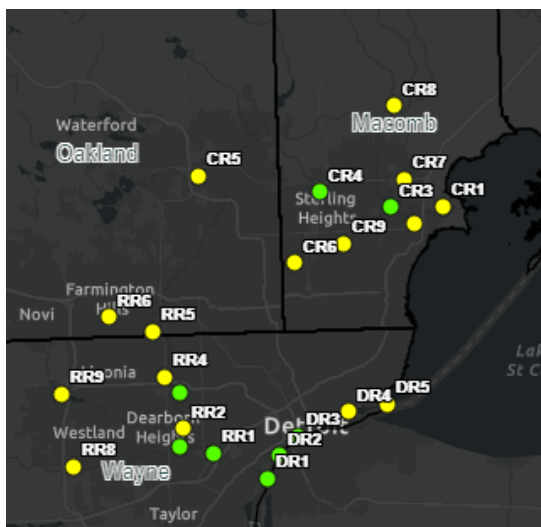
On August 15, the **Water Analytical Work Group (AWG)** met for a special meeting to learn about the updated analysis underway to evaluate the prospect of repurposing versus rehabilitating the Northeast Water Treatment Plant. The analysis includes consideration of operational and regulatory impacts. When complete, results from the updated analysis will be shared with the AWG. Additionally, the meeting addressed updates related to the water meter upgrade program, potential enhancements to the Wholesale Automated Meter Reading (WAMR) portal and provided a detailed overview of the water exceedance process including contract exceedance documentation.



PLANNING SERVICES (continued)

On August 4 and 18, the **Water Charge Methodology Review Subgroup** met to discuss and review analyses related to possible alternatives to the current water charge methodology. Any proposed alternatives will be brought to the full Charges Work Group.

The **Watershed Hub Work Group** met on August 23 to discuss several ongoing regional water quality monitoring initiatives. The group was joined by representatives from the United States



Geological Survey (USGS) to gain member input into the content and format of an annual report to share data and analysis related to the Regional Water Quality Monitoring Program. USGS also shared their high-level vision for increased collaboration among monitoring efforts in the Detroit River. Finally, updates from Members about their respective E. coli monitoring efforts in the Rouge and Clinton River watersheds, as well as reviewing the data that has been collected and stored in GLWA's GIS Mapper this sampling season. The next meeting of the Watershed Hub Work Group is scheduled for Wednesday, October 25.

System Analytics & Meter Operations (SAMO)

The water system's maximum day and peak hour assessment for 2023 was completed by the System Analytics and Meter Operations group. The June 2 maximum day in 2023 had an adjusted pumpage of 690 million gallons per day (MGD) (compared to 2022's 631 MGD), and the June 2 peak hour had a flow of 789 MGD (compared to 2022's 697 MGD). The system pumped between 600 and 699 MGD for 14 days in 2023, which is more than the preceding two years. At the next meeting, the team will present the findings to the analytical work group.

WASTEWATER OPERATING SERVICES

Wastewater Operations

The Water Resource Recovery Facility (WRRF) operations complied with the Water Quality Standards for the month of August, except for the compliance issue below.

On August 24, to reduce the risk of street flooding and basement backups, the operators at Baby Creek Screening and Disinfection Facility (SDF) opened the bypass gates. The Michigan Department of Environment, Great Lakes, and Energy (EGLE) was not notified of this bypass in a timely manner. Communications procedures between Combined Sewer Overflow (CSO) staff and the communication team with EGLE have been reviewed and modified to ensure timely notification moving forward.

WASTEWATER OPERATING SERVICES (continued)

Maintenance

The Primary Team initiated a project to modify Grit Flight 1 at Pump Station 1. An issue was discovered at the inflection point of the grit flight. The chain pulled the flights up against the guiderails and ripped the shoes off. To brainstorm how the flights could be held down, GLWA engaged mechanical contractor Titus Welding, and it was determined that a small sprocket could fit in to hold the flights down through the inflection point, which will likely lengthen the life of the shoes. Data will be collected over the next months to determine if a significant reduction in shoe replacements is occurring for Grit Flight 1. If so, a similar scope of work will be completed for Grit Flight 2.



The inflection point of Grit Flight 1 where the flights start moving up to move grit to another conveyor. These pictures are before and after the sprocket installation.

An ongoing issue at Pump Station 1 involves grit that falls from the conveyor system into the basement and eventually into the subbasement. The grit falling into the subbasement overcomes the sump pump in the basement and contributes to flooding, requiring a vactor truck and crew to clean it up. Modifications have been made to the above conveyor system to limit the grit falling into the basement, and while it did improve, it did not completely alleviate the problem. To further mitigate the problem, a block wall containment was made by the Primary Team in the basement where most of the grit falls. The expectation is that this containment wall will prevent the majority of the grit from going into the subbasement, preventing the sump pump from being overwhelmed.



Operations Team Leader Joseph Rowland, looking at the newly constructed containment wall in the Pump Station 1 basement

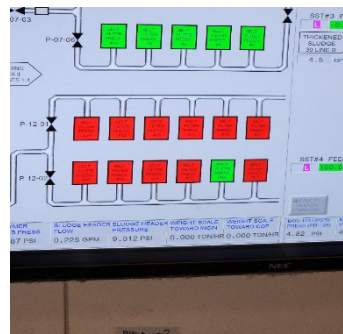
WASTEWATER OPERATING SERVICES (continued)

The brush riggings for cleaning the secondary clarifiers were aging and required major refurbishment. These brush riggings serve to clean algae buildup from the secondary clarifier weirs, which helps to prevent violating the National Pollutant Discharge Elimination System (NPDES) permit requirements for Total Suspended Solids (TSS) and phosphorus levels. If algae is allowed to grow due to inaction at the weirs, the algae can end up in the effluent, increasing the TSS and phosphorus lab results. The Secondary Maintenance Team developed a contract to have all 25 secondary clarifier brush riggings rehabilitated to ensure the weirs are being fully cleaned, minimizing the risk of violating the NPDES permit TSS and phosphorus requirements.



Rehabilitated brush riggings installed on a secondary clarifier

Sludge Feed Pump 2 underwent a redesign and construction contract. To test the operation of Sludge Feed Pump 2, it had to be run at maximum speed for at least one hour, which required maximum availability of the Complex II belt filter presses (BFPs). The Dewatering Team did a fantastic job at ensuring the BFPs were available and functioning prior to the day of the test, allowing the needed 11 out of 12 Complex II BFPs to be run to support the test. Great job to the WRRF Dewatering Team!



Ovation screen showing 11 out of 12 Complex II BFPs running during the test

Industrial Waste Control (IWC)

Enforcement of Pretreatment Program

GLWA has identified a facility in the northern portion of our service area that has been operating without a discharge permit in violation of federal, state and local law. Enforcement action has been initiated and settlement discussions are scheduled for September 2023.

WASTEWATER OPERATING SERVICES (continued)

Engineering and Construction

Wastewater Projects in Design or Miscellaneous: Capital Improvement Planning (CIP) Design:

CIP 211005.3, Contract No. 2104082 – Pump Station 2 Mag Meter Replacement

The bids were reviewed and the Notice to Proceed (NTP) letter was issued. The kickoff meeting is planned for September.

CIP 211008, Contract No. 2101915 – WRRF Sludge Dewatering Pump System Improvements

The basis of design and study technical memoranda are in development to ensure all stakeholders agree prior to beginning the design. Tech memo 5A was delivered in August and multiple coordination meetings were held for pump requirements and layout considerations.

CIP216008, Contract No. 2000970 – SFE Pump Station Rehabilitation

A shortlist of items to incorporate into the Phase 2 final design is being prepared. The preparing Measurement and Verification Plan (M&VP), and the Lump Sum Price (LSP) for Phase 2 (Construction) for Board approval to proceed to the next phase is in progress. The M&VP and LSP are expected in September for this Progressive Design-Build project.

CIP 260619, Contract No. 2004538 – St. Aubin, Leib and Seven Mile CSO Instrumentation & Controls Replacement

The 100 percent drawings have been submitted for St. Aubin and Leib CSOs and reviews have concluded. The 100 percent drawings for Seven Mile are expected for review by mid-September.

CIP 260904, Contract No. 2200545 - Professional Services for 3rd Floor Renovation at the WRRF New Administration Building (NAB)

This project will renovate the 3rd NAB to maximize and optimize the space utilization of the building as part of the Wastewater Master Plan. The consultant has submitted the 95 percent construction development documents and specifications. The submittals are currently under review.

CIP 270001, Contract No. 2202509 – Pilot CSO Netting and Disinfection Facility

Development of a Request for Proposal (RFP) for an engineering services contract is underway. The project includes disinfection and in-line netting facilities which will remove floatables, trash, and debris for three uncontrolled combined sewer outfalls downstream of the I-94 drainage system.

CIP 270004, Contract No. 2101475 – CSO Facility Improvements

A 30 percent design package is anticipated to be submitted in September. The design team will host three workshops in September and October to support the finalization of the 30 percent deliverable. The workshops will cover reliability centered design, virtual reality tours utilizing HoloLens technology, as well as overview of the 30 percent design.

WASTEWATER OPERATING SERVICES (continued)

CIP 270006, Contract 2200061, Design Services of CSO Facilities Improvements II

The consultant is working towards finalizing the Basis of Design, and the Basis of Design Report is expected to be delivered in September.

CIP 270007, Contract No. 2202942, CSO Facility Chemical Feed System Improvements at Baby Creek, Belle Isle, Conner Creek and Puritan-Fenkell

Development of a Request for Proposal (RFP) for an engineering services contract to implement improvements recommended in the CS-299 report is underway.

CIP 270010, Contract No. 2300183 – HVAC Improvements at Puritan-Fenkell and Seven Mile CSO Facilities

The proposals received were over the allowable amount for a Task Order Engineering Services (TOES) contract and currently evaluating alternative strategies to proceed is in progress.

CIP 273001, Contract No. 2103225 – Hubbell-Southfield CSO Facility Improvements

The Notice to Proceed (NTP), purchase order, and executed contract was issued to the vendor on August 30, 2023, with the start date of September 25, 2023, and a final completion date of June 22, 2024.

CIP 277001, Contract 1902908 – Baby Creek Outfall Improvements Project

The Contractor has completed the enlargement of the opening in the wall between the two barrels of the regulator chamber. A smooth transition between both barrels as specified was also created. The outfall debris removal and disposal are ongoing.



Baby Creek Outfall Improvements Project

WASTEWATER OPERATING SERVICES (continued)

Non-CIP Design; Task Order Engineering Services (TOES):

TOES 38T, Contract No. 2203014 – Complex II Conveyor System Fire Protection Improvements – Pilot System.

This project will install fire protection devices inside the Complex II Incineration Building per recommendations by the insurance company. This will significantly reduce the risk of equipment damage and the loss of property. The 100 percent design deliverables were delivered on August 18, 2023. The bid documents are being prepared for advertisement.

Wastewater Projects in Construction: CIP Construction:

CIP 211002, PC 795 – Pump Station 2 Pumping Improvements:

A new impeller for Pump No.14 has been installed, and a 10-day performance test was conducted. The preliminary review of the test data shows that Pump No.14 still does not meet all agreed upon performance requirements under the agreement. Therefore, a liquidated damages notice was issued to the Contractor on August 21, 2023.

CIP 211006, Contract 2103350 – PS No.1 Improvements (WRRF)

The Rev 0 Schedule is approved as noted. The chemical line in the tunnel has been demolished. Contractor Weiss will be working on Equipment Shutdown Request (ESR) # 3 to remove 4” potable line from the tunnel. Excavation for a new electrical building is on-going. The submittals review is on-going.



Existing Cooling Unit Pad Removal



Excavation for a New Electrical

WASTEWATER OPERATING SERVICES (continued)

CIP 211008, Contract 2002190 – Rehabilitation of Ferric Chloride Feed System at Pump Station-1(PS-1) and Complex B Sludge Lines (WRRF)

The 30-day operational demonstration test of the entire new ferric chloride system began on August 15, 2023. With the new ferric chloride feed system in service, the Contractor is cleaning the last of the old pickle liquor tanks in preparation for its demolition. Chemical cleaning of the thickened waste activated sludge (TWAS) line was unsuccessful after a second attempt. As a result of this, the Contractor performed a third phase of chemical cleaning, after which the blind flanges were removed on August 25, 2023, for inspection of the line.



Pickle Liquor Tank 1 Cleaning TWAS CCTV After Third Cleaning

The Contractor's attempt to confirm the cleaning effectiveness via closed circuit TV (CCTV) inspection was unsuccessful because debris and obstructions prevented the camera from reaching most of the line. The Contractor is exploring options for a different CCTV arrangement to provide a more thorough inspection.

CIP 211011, Contract No. 2201762 - Pump Station 1 Rack and Grit HVAC System Upgrade (WRRF)

Clark is currently submitting shop drawings of the equipment to be installed at Pump Station 1 Rack and Grit for review and approval. Clark is also acquiring the building permits needed for construction of this project.

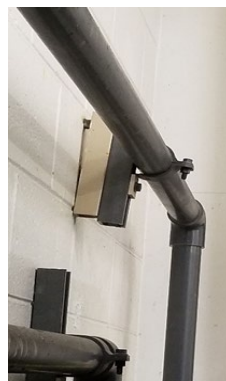
CIP 213007, Contract CON-197 – WRRF Modification to Incineration Sludge Feed Systems at Complex II (WRRF)

The CON-197 Contractor is addressing the deficiencies identified during attempted 30-day operational demonstration testing. The Contractor repaired and reinstalled several motorized conveyor head pulleys that had failed. Plans submitted by the conveyor supplier were approved and parts are being fabricated for necessary modifications of conveyor chutes, plows, and plow tables to address prior problems with excessive sludge spillage. After fabrication and installation of the modifications, the operational demonstration testing will be restarted. In response to the Contractor's questions and submittals, the Engineer, Black and Veatch, has provided additional design details for new backwash pipe supports and a revised specification to allow procurement of backwash valves and actuators that are currently available. The Contractor is also beginning modification of the conveyor drip pan spray system in accordance with design revisions by the Engineer, to provide more effective pan cleaning and alleviate water dripping down through the building.

WASTEWATER OPERATING SERVICES (continued)

CIP 216004, Contract 1802410 – Rehabilitation of various Sampling Sites and PS#2 Ferric Chloride System (WRRF)

The Contractor completed all construction by August 6, 2023, the contract's final completion date. Most of the remaining close-out items including as-built red-line drawings, equipment O&M manuals, warranties, record documents, and spare parts turnover have been addressed. Three warranty items are also being addressed by the Contractor, including a failed pipe support, a failed phosphorus analyzer sample pump, and a pipe break that occurred. A final close-out change order has been processed to close out this contract, and the Contractor is completing final waivers and other commercial paperwork required for final payment and close-out.



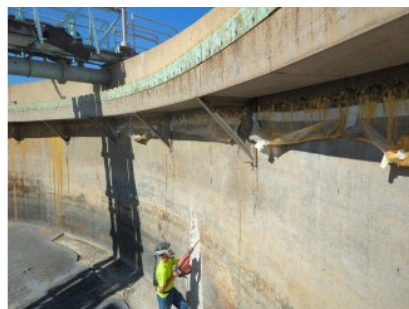
Ferric Chloride pipe break at union connection Pipe support anchor failure

CIP 216006, Contract 1903601 and 1903598 – Assessment and Rehabilitation of the WRRF Yard Piping and Underground Utilities (WRRF)

The bidding for the abatement in the administration tunnels has begun. Demolition contractors are being engaged for pre-bid meetings. Ten of the 18 improvements are currently submitting 90 percent plans. Eight of the improvements will soon submit 75 percent plans for GLWA review. A full accounting with actual bid prices and recommendation for approval is expected by October for presentation at the December or January Board meeting. Demolition of the tunnels and abatement are expected to be in parallel with final Board review.

CIP 216011, Contract No. 2100239 – WRRF Facilities Structural Improvements

The 90 percent design documents are under review and approval for the New Administration Building (NAB) exterior repairs. Repairs at Sludge Thickening Tank (STT) #14 is on-going. This includes removing delaminated concrete from wall areas; the bridge has been sandblasted and power washed; horizontal control joints are prepped. The Contractor will soon perform removal of delaminated concrete at SST#10. The Equipment Shutdown Request (ESR) to assess STT#2 has been approved.



WASTEWATER OPERATING SERVICES (continued)

CIP 260204, Contract No. 2103688 – Rehabilitation of Connors Creek Sewer Systems (RWCS)

Grouting, rebar coating, and spot repairs have restarted under the cemetery and airport. Debris removal continues in the double barrel south of Harper and Conner Street. Debris removal work between the Conner CSO and Conner Pump Station (PS) is ongoing. 1,000 tons of debris were removed from the sewers in July 2023 (3,000 total to date). 47,000 tons were forecast for the project. However, a total of 10,000 to 12,000 tons are anticipated for removal in the project. Slip lining between Six and Seven Miles is scheduled to begin this fall. City Airport has announced an expansion for taxiways on the west side of the airport. Wastewater Engineering, Water Engineering, System Resiliency, through the Utility Review and Permits (URAP) group are coordinating GLWA review work with the City of Detroit airport designer and staff.

CIP 260206 - 2202757 - Joy Brush Bates Rehabilitation (RWCS)

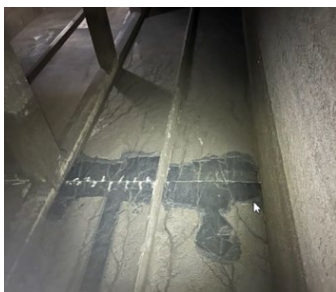
Work has begun on the Joy sewer at Woodward going West on Edison. Cleaning and grouting operations began performing work segment by segment, with a shotcrete operation expected to begin next month for the Woodward Edison connection and the first 100 feet west of Woodward.

CIP 260207, Contract No. 2004082 – Rehabilitation of the Woodward Sewer (RWCS)

The project has accepted a material substitution proposal to change the WS300 non-circular slip lining to a Cured-in-Place-Pipe (CIPP) lining. The final details are being determined by execution of a Construction Change Directive. The Woodward sewer is being prepared for final inspection in the next month.

CIP 260614, Contract No. 1902224 – CSO Facilities Structural Improvements (CSO)

85% of the work is completed to date. All repairs have been completed at St. Aubin, Oakwood, Belle Isle, Leib, and Baby Creek facilities. Basin repairs on floor and wall at the Conner Creek CSO (CON) facility is on-going as weather permits and coordination with Design Build 226 (DB-226). Change Order No. 2 will be processed once cost and scope is finalized to replace the existing concrete enclosure for conduits with cable trays at Hubbell Southfield CSO (HS) Facility.



Basin floor repairs at CON



Existing Concrete Enclosure Failure at HS

WASTEWATER OPERATING SERVICES (continued)

CIP 260623, Contract No. 2102618 - Baby Creek CSO Facility Screen Rehabilitation

The rehabilitation of screen No. 2 has been completed and currently screen no. 3 is being rehabilitated. There are a total of 15 screens that are required to be removed, rehabilitated, and reset into operation.



Screen # 3 is being rehabilitated

CIP 260901, Contract No. 2101878 – WRRF Hazmat Building Rehabilitation

The shop drawing submittals and review is on-going along with monthly progress meetings. The Contractor is performing abatement activities prior to demolition.

CIP 260905, Contract No. 2203675 – WRRF Plumbing Shop Improvements

The submittal review is being performed and monthly progress meetings are being held. GLWA equipment from the plumbing shop was removed from the plumbing shop.

Non-CIP Construction:

JOC Task 70 – Contract No. 2002464 – Complex A Gallery SFP-2 Pump Replacement

The Contractor has completed the startup and testing of the new Sludge Filter Pump No. 2. During the startup and test, the new pump sustained 1235 GPM of sludge at a discharge pressure of approximately 45 pounds per square inch (PSI) for approximately one hour.

The new pump performed better than expected. The next step is to train plant operations and maintenance on how the new Variable Frequency Drives (VFD) Sludge Filter Pumps should be operated. After training, the plant will test and operate the pump for 30 days to ensure the pump's long-term viability.



New SFP No.2

Contract No. 2201101 – Complex II Incinerator 11 Rehabilitation

The shop drawings and the Requests for Information (RFI) have been reviewed. Sandblasted interior breech walls and pulled rabble arms from hearths have been completed and demolishing hearths 5 and 6 began.

JOC Task J2-11 – Contract No. 2300827 – C-II Incineration Building Access Platform at Conveyor H

This project will modify existing structural supports at Conveyor H belt tensioning weight and install a new access platform. The Notice to Proceed (NTP) letter was issued on August 18, 2023. The start work date is scheduled for September 11, 2023.



Location of the new access platform

WASTEWATER OPERATING SERVICES (continued)

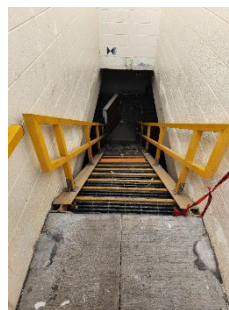
CSO Control Program

CSO Operations

Operations captured CSO at all nine facilities and discharged at seven locations; Conner Creek, St. Aubin, Leib, Belle Isle, Oakwood, Baby Creek and Hubbell-Southfield. Some areas were approaching critical elevations, which prompted the use of effluent relief gates at Conner Creek and bypass gates at Baby Creek. The combined overflow volume was 865.8 million gallons (MG). Puritan-Fenkell captured 5 MG and Seven Mile captured 1.9 MG.

CSO Maintenance

Maintenance is repairing a stairwell in which the anchor failed at Conner Creek CSO. The top portion of the stairs was found collapsed by a Plant Technician while making inspection rounds. The team removed the roof and pulled out a scaffold that was fixed to repair the lighting. Inspections have been made in other areas of the basin. Two sets of railings have been ordered for the bottom section of different compartments.



Compartment six stairwell

Maintenance also reinstalled an electric actuator for a three-way valve for the chemical tanks at Leib. Lakeshore Global Company, (LGC) also reconfigured some piping so valves were more accessible. Previously, they were in crawl spaces between the pumps.



Leib Screening and Disinfection Facility (SDF) chemical room

WATER OPERATIONS

AWWA Michigan Section 85th Annual Conference and Exhibits

GLWA showcased leadership through the following presentations at the MI-AWWA Annual Conference in Port Huron last week:

- Pre-conference activities included a tour of the Lake Huron Plant and the Pilot Plant Demo
- Operational Challenges at the Lake Huron Water Treatment Plant While Isolated from the GLWA Water Transmission System by James Messineo (Arcadis) and Andrea Miller (GLWA)
- Detroit River Phytoplankton by Balvinder Sehgal (GLWA)
- GLWA Pilots New Opportunities at Lake Huron for Research, Training and Innovation by Dienne Tolofari (GLWA) and Denise Funk (Brown and Caldwell)
- CSI: Fort Gratiot (GLWA's Forensic Investigation of the 120-inch Transmission Main Failure) by Scott Jauch (HDR), Olivia Olsztyn-Budry (GLWA) and Jerrod Wade (GLWA)
- How GLWA is Using Applied Science and Innovation to Improve and Extend the Life of Their Linear Assets by Susan Donnally (HDR), Graham Bell PhD, PE (University of Tennessee) and John Norton, PhD, PE (GLWA)
- Great Lakes Water Authority's Response to a Water Main Break on a 120-inch Water Transmission Main by James Messineo (Arcadis), Cheryl Porter (GLWA), Michelle Zdrodowski (GLWA), Todd King (GLWA), Biren Saparia (GLWA) and Dave Miller (GLWA Member Partner – Shelby Township)

Southwest Water Treatment Plant

Southwest Water Treatment Plant was awarded the 2023 AWWA Partnership for Safe Water President's Award

The President's Award recognizes treatment plants that have achieved the highest possible levels of individual filter effluent turbidity performance (Phase IV goals). Southwest demonstrated that they are achieving high levels of performance by meeting or bettering the Partnership for Safe Water Phase IV Individual Filter Effluent Turbidity Performance Goals for a 12-month period.



President's Award performance requirement:

- Individual filter effluent turbidity of less than 0.10 Nephelometric Turbidity Units (NTU) for 95% of the measurements taken at 15-minute intervals when the filter is in production.
- Maximum filtered water turbidity goal equal to or less than 0.30 NTU for all sample locations
- The treatment plant has an individual filter effluent turbidity goal following a backwash of no more than 15 minutes of water production at a turbidity equal to or greater than 0.10 NTU

WATER OPERATIONS (continued)

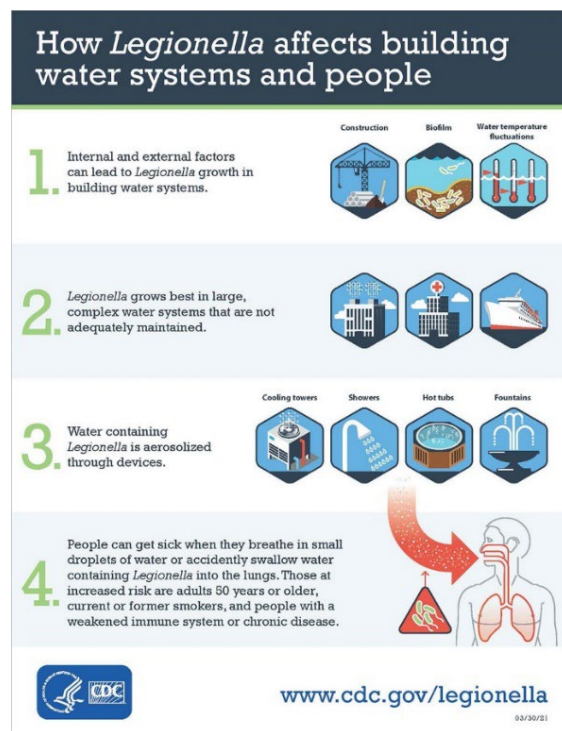
The President's Award is Phase IV of the AWWA Partnership for Safe Water treatment plant optimization program. This award represents an achievement over multiple years by the efforts of the entire staff of Southwest Water Treatment Plant.

Water Quality

Legionella Study

GLWA's Water Quality team is participating in a Water Research Foundation (WRF) Legionella study. The study began in the summer of 2022 and continues through the summer of 2023. The team is collecting and analyzing samples for *Legionella pneumophila* from three distribution sites within the GLWA service area along with several other water parameters. The study is a nationwide study where WRF will analyze the data from other participating water service providers to help determine the potential risks to drinking water systems.

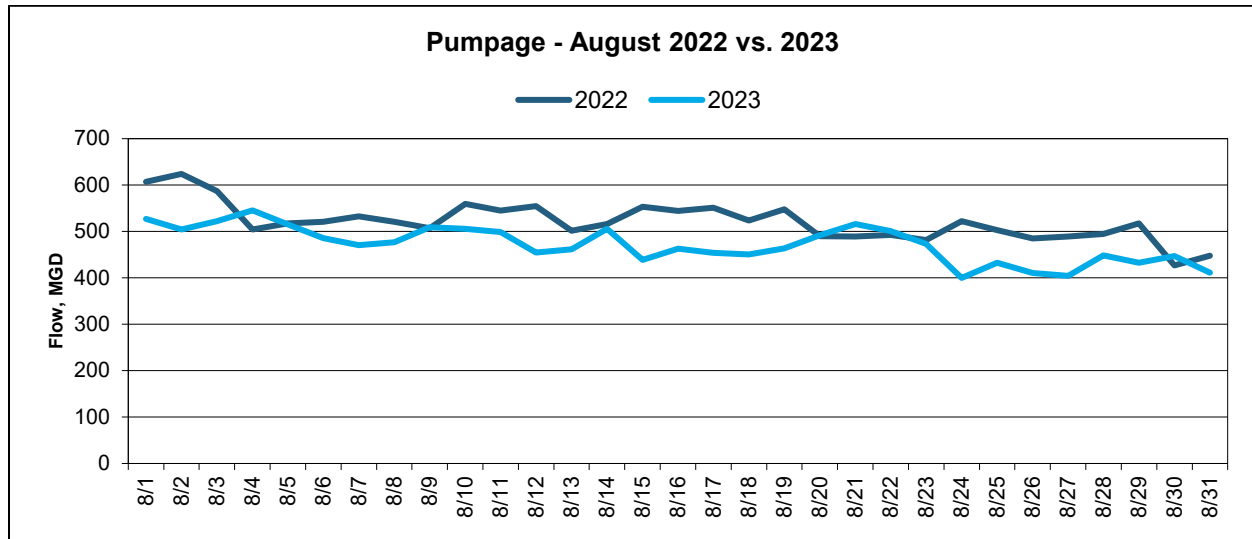
Legionella is a bacteria that is occasionally deadly for persons with compromised health issues. Internal and external factors can lead to Legionella growth in building water systems if not properly maintained. New construction of a water main or plumbing can introduce Legionella bacteria into the drinking water system if proper pipe hygiene is not performed. If present, legionella can readily grow in warm water such as hot tubs and hot water tanks temperature between 95 °F and 115 °F. GLWA's Water Quality team performs disinfections of water mains, reservoirs, pumping stations, water treatment plant equipment, and other drinking water appurtenances in order to maintain GLWA's water of unquestionable quality.



WATER OPERATIONS (continued)

Systems Control Center (SCC)

The August 2023 pumpage was 27.5 percent lower than the August 2022 pumpage.



Engineering

Contract No. 2004456 – 14 Mile Transmission Loop Phase 2

Project Manager: Pete Fromm / Vittoria Hogue

Project type: Construction

Contractor: Joint Venture Ric-Man Construction – Clark Construction Group

The 14-Mile Phase II project is currently in the construction phase. The Design phase is under Contract No. 1802448 and the Construction phase (Phase II) is under Contract No. 2004456. The project is currently finishing the installation of 54-inch steel pipe (pipe) along 13-mile with welding the pipe between M-5 and Meadowbrook. The pipe installation has turned down Meadowbrook and finishing to get south of the school. The road restoration crew is starting to prepare to pave the road at 13 Mile and 11 Mile. There will be temporary pavement on Meadowbrook from 13 Mile to the school completed prior to school starting to allow access. The project is going to pause the remaining pipe installation on Meadowbrook to allow school buses to access 12 Mile to the school until 13 Mile is back open to two-way traffic. This pause will not delay the project completion.

The tunnel crew is currently tunneling under I-96 on Meadowbrook. This tunneling operation will continue for the next month. The pipe installation on the south side of the project at 8 Mile will start within the next month. The Michigan Department of Transportation (MDOT) bike path along I-275 from 11 Mile down to 8 Mile restoration is starting. The project team is coordinating with GLWA's operations team for the two connections that need to take place this upcoming low demand season.

WATER OPERATIONS (continued)

Over the next four months, there will be a large push to complete most of the road restoration on the project. The project team continues to meet with the City of Novi weekly, which will change to bi-weekly next week. There is also communication to residents and businesses close to the work area. The team is also meeting and communicating with MDOT, Farmington Hills, and other stakeholders.



Pictured left to right:

- *Left: Installation of 12" sewer line on pile*
- *Center: 54" Water line being set for installation on 13 Mile Road*
- *Right: 54" Water line installation on 13 Mile Road*

Contract No. 2100236 – Reservoir Inspection & Rehabilitation

Project Manager: John McCallum TML

Project Inspection: Eric Kuhn

Project type: Construction

Contractor: Pullman SST.

Engineering Consultant: Hazen & Sawyer

General

Inspection and rehabilitation of finished water reservoirs is required to ensure that GLWA is providing unquestionable high-quality drinking water. The goal of the program is to ensure the finished water reservoirs are structurally sound and sanitary. The reservoirs are required to be inspected on a regular cycle as recommended by the Michigan Department of Environment, Great Lakes, and Energy (EGLE). The oldest reservoir is nearly 100 years old at Water Works Park Water Treatment Plant (WTP), and GLWA has two new reservoirs at West Service Center and two new reservoirs planned to replace the aged-out reservoirs at North Service Center. The work is challenging due to the short duration allowed for the work. At best, the engineer and contractor have a 6-month window to complete the work. The work includes mobilization, initial cleaning, engineers' interior inspection, repair work as directed by the engineer, reinspection by the engineer and GLWA engineering final cleaning, and finally GLWA water quality inspection.

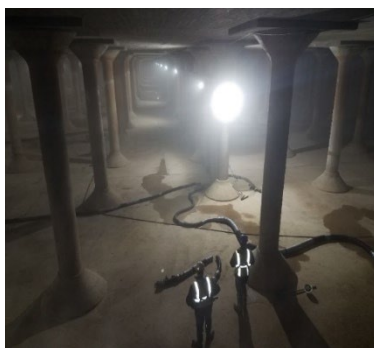
CIP 170801 Phase I of the reservoir program to clean, inspect, and rehabilitate 10 GLWA finished water reservoirs is coming to its conclusion. The last three of the reservoirs that have been out of service since last fall were returned to service this spring. The contractor is currently working of remaining exterior improvements at the Southwest WTP and Lake Huron WTP.

WATER OPERATIONS (continued)

Exterior improvements this summer included painting the roof on reservoir No. 1 and a new drainage swale around tank No. 3 to allow surface runoff to drain away from the around the tank at the Southwest WTP. The 10 reservoirs include: three 20-million-gallon (MG) reservoirs at Springwells WTP, three 15 MG reservoirs at Lake Huron WTP, three 10 MG reservoirs at Southwest WTP, and an 18 MG reservoir at Imlay Station. Both contracts under Phase I are planned to be closed in March of 2024 ahead of schedule and on budget.

CIP 170802 Phase II of the program address 16 finished water reservoirs and engineering started in July 2022. The four reservoirs currently selected for this first season are Haggerty, Schoolcraft, Wick, and Eastside. The contract end date for phase II is planned for March of 2028.

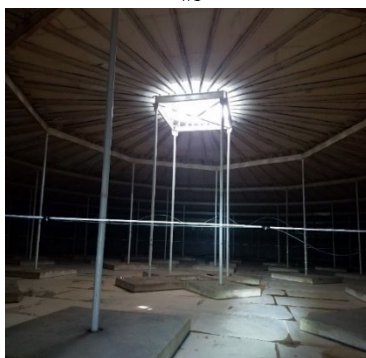
CIP 170803 Phase III of the program is currently in the scope development phase with plans to submit an RFP for Engineering to Procurement in 2024-2025. This phase of the program as with the last two phases will encompass engineering, and construction contracts to perform inspections, cleaning, and needed repairs on all 30 of GLWA system reservoirs over a 6-year contract. The scope development of this Phase as with Phase II will incorporate the lessons learned from the previous phases to tailor both the engineering and construction contracts to return the best value for performing this critical maintenance on GLWA reservoirs to ensure they are in sound structural and sanitary condition.



Interior of Springwells WTP Reservoir #1



Interior of Springwells WTP Reservoir #1 finalized for inspection



Southwest WTP Reservoir #1 new columns and cupola



Reservoir #1 Southwest WTP freshly painted

This fall, the Engineer on Phase II (Brown and Caldwell) will be submitting a 50-year cost and schedule outlook matrix on the program to assist with the GLWA long-term cost planning of the program.

WATER OPERATIONS (continued)

Energy, Research & Innovation

Research

Real-time Bacteria Monitoring Project:

- All the data needed to address the objective of the project have been collected. The objective of the project involves the evaluation of emerging technologies to continuously monitor *E.coli* using optical indicator parameters.
- An agreement was reached to have the equipment pulled out for the season since data collection has been completed.
- A meeting has been scheduled to discuss next steps and data evaluation.

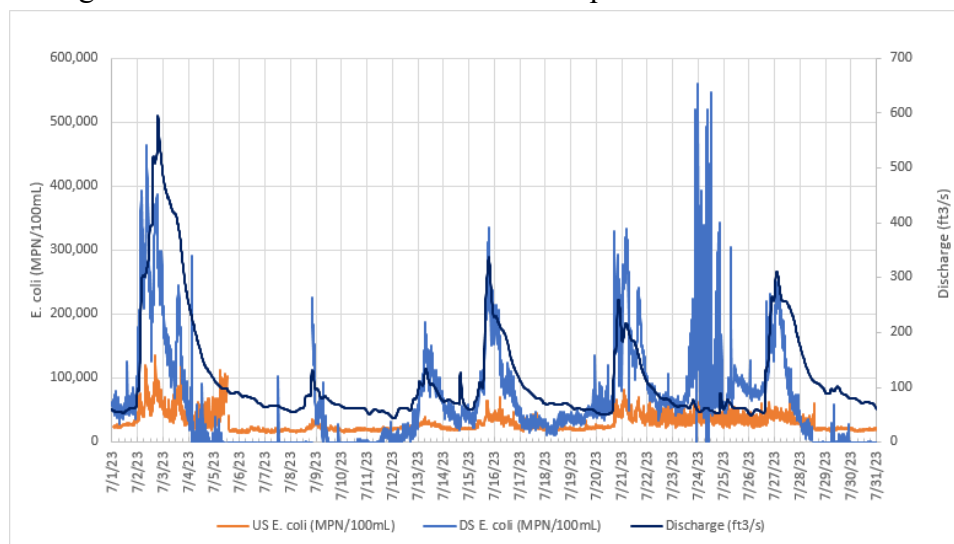


Figure 1: A Time Series Plot showing comparisons of *E.coli* counts between the two units (US and DS).

LimnoTech Buoy Deployment

- The Detroit River and Lake Huron buoys were deployed in May 2023. The Detroit River Buoy is located just north of Fighting Island and the Lake Huron Buoy is located about 500 feet west of the intake.
- Data from the buoys are shared internally and publicly. However, the public link does not contain all available data.

WATER OPERATIONS (continued)

- This is the first full year that both buoys will be deployed for the full season with similar objectives.
- Thus far, both buoys are generating good data and talks are underway to organize a workshop/seminar to showcase the capabilities of the buoys and data accessibility.



Figure 2: Detroit River



Figure 3: Lake Huron Buoy

Asterra Satellite Leak Detection Pilot Project

The GLWA Research and Innovation Team has sponsored a satellite leak detection pilot project for the City of Detroit, GLWA, and three other member partners. Water utility leak detection and repair are an important aspect of reducing non-revenue water (NRW) losses. Satellite leak detection methods use satellite imagery to cover large areas and quickly narrow down the regions that contain probable leaks. The specific technology is L-band synthetic aperture radar (SAR) sensors, located on satellites, to make passes over the region and assess regional soil moisture and identify local “points of interest”. These are then displayed in user-friendly GIS reports and sent to the utility’s field crew to search within the zones to pinpoint the exact leak location. This technology has been adapted from the search for water on other planets, including the Moon and Mars.

The first phase of the project was the identification of the “points of interest”, areas of possible leaks. The second phase of the project started on Wednesday, September 6, and included representatives from



Leak detection training in the Livonia DPW offices. Photo courtesy of John Norton (GLWA)

Detroit, Livonia, Oakland County, Redford Township, and GLWA. The kickoff meeting was held in the Livonia Public Works office and focused on field leak detection methods, included grown microphones, acoustic sensors and pipe-adjacent microphones, and leak correlators.

INFORMATION TECHNOLOGY

In the past month, the IT Security team has proactively blocked or thwarted 40,944 spam messages, 26,0790 spoofed messages and six viruses. Additionally, 3,218 phishing attempts have been caught and 3,937 malware attempts have been blocked.

The IT Business Productivity Team, in conjunction with Organizational Development (OD) and the Financial Services Area, continues to make good progress on our Workday implementation, which will replace our BS&A Financial (FINS) System and the Ceridian Human Resource Management (HCM) system. The HCM/payroll team is preparing for parallel testing, which will compare Ceridian live payroll results with Workday test payroll results to ensure they match.

The FINS team is finalizing test scenarios for end-to-end testing. Both teams are also working on needed integrations with other systems. The HCM portion of the Workday system will go live on December 25, 2023. This go-live date is driven by the payroll cycle and cannot be changed without impacting 2023 year-end and 2024 year-start processes. OD and IT are collaborating on plans for the go-live day and week, to ensure adequate support for our team members to successfully transition to Workday.

Currently, the IT PMO is managing 20 active projects and is processing four project requests.

PUBLIC AFFAIRS

News Conference to Announce Progress on 96-Inch Water Transmission Main Relocation

Public Affairs planned and executed a news conference to celebrate the completion of Phase 1 infrastructure improvements and the opening of Avon Road in Rochester Hills, as part of the 96-inch water transmission main relocation project. Avon Road, the new bridge over the Clinton River, and the roundabout at Dequindre and 23 Mile Road are now open for traffic in front of Yates Cider Mill (just in time for the start of their fall season) with the addition of new sidewalks, crosswalks, and signals.



PUBLIC AFFAIRS (continued)

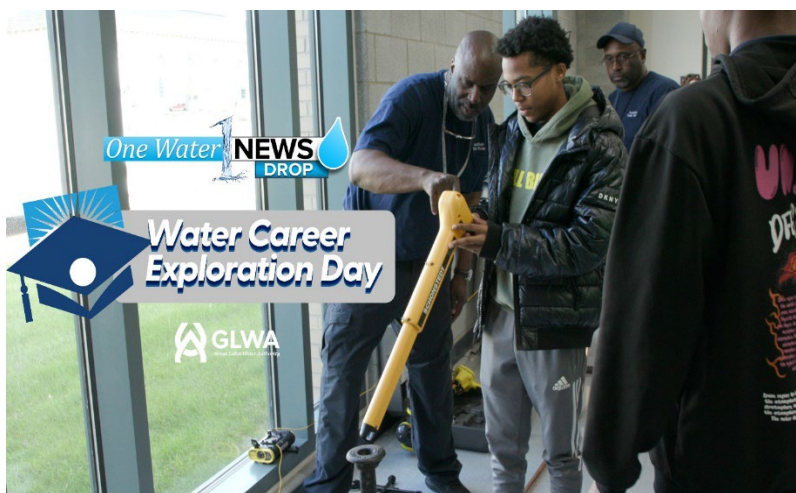
Open Enrollment

Public Affairs once again teamed up with the Organizational Development (OD) One Water Wellness Team to create a cover for this year's Open Enrollment Guidebooks. The team also worked with OD to create a communications plan to ensure that all GLWA team members know when Open Enrollment is happening and exactly what they need to do to guarantee they receive the health care and benefits options available through GLWA.



One Water News Drop

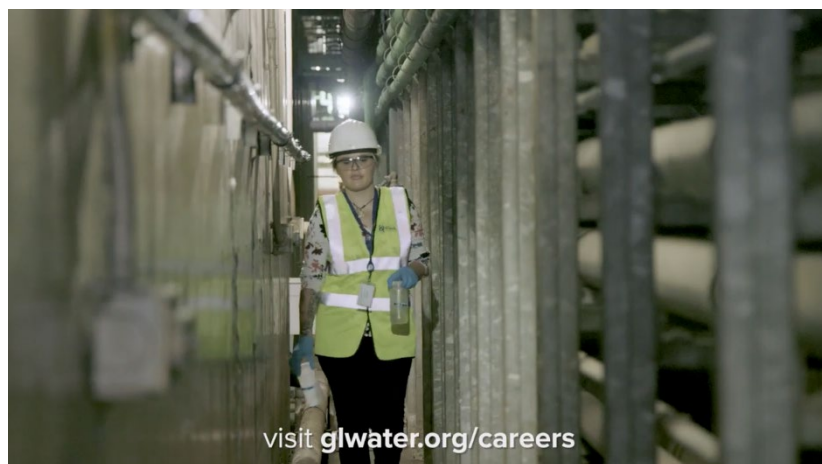
Public Affairs has produced a new One Water News Drop video on the event held at Water Works Park as part of Water Career Exploration Day. GLWA welcomed students from Harper Woods College, Career Institute and Detroit Public Schools Community District's Randolph Career and Technical Center. The event introduced students to a number of interesting career opportunities in the water sector through a plant tour, hands-on activities, live demonstrations, a discussion panel and Q&A sessions. You can watch the video by clicking [HERE](#).



PUBLIC AFFAIRS (continued)

Intern Video

Public Affairs worked with Organizational Development to create a new video showcasing our Internship Program. The video shows interns getting real world experience in the water sector. The video also touches on the fact that our interns get paid. The video will be used to help recruit potential interns in the future. You can watch the video by clicking [HERE](#).



SECURITY AND INTEGRITY

The Hazmat Unit coordinated and completed a total of 430 hours of training during the month.

Security and Integrity attended the Detroit Local Emergency Planning Committee meeting, and also participated in the US Coast Guard's Tabletop exercise at Marathon Oil.

Lastly, two Command Officers within the Security Group, attended the First-line Supervision Training Course hosted by DeWolf and Associates.

ORGANIZATIONAL DEVELOPMENT

Performance Team

Performance Management

The 2023-2024 (FY24) Performance Review process has launched with the Baseline Goal Planning Review on August 2, 2023. The Baseline Review is due in September 2023. All Team Members except apprentices and interns received their goals and Baseline Review for FY24.

ORGANIZATIONAL DEVELOPMENT (continued)

Apprenticeships

Water Technician Apprentice Temesha Holley was awarded the Pre-apprentice and Apprentice of the Year award from our partners at Focus Hope.

The GLWA Apprenticeship Program received \$40,000 in grant funding from Detroit Employment Solutions Corporation (DESC) for FY23, as well as \$25,000 in grant funding for FY24. This totals \$65,000 in grant funding that GLWA has received from DESC to offset the cost of Related Training Instruction for our apprentices.

Internship

The annual GLWA Summer Internship (The Internship Program) concluded on September 1, 2023, with 14 interns. The Internship Program provided on-the-job learning and real-world experience.

Benefits and Wellness

Team Member Engagement

Mental Well-being: Wellness Wednesday Meditations

GLWA team members enjoyed a variety of meditations during August that primarily focused on patience and being present. Meditations included:

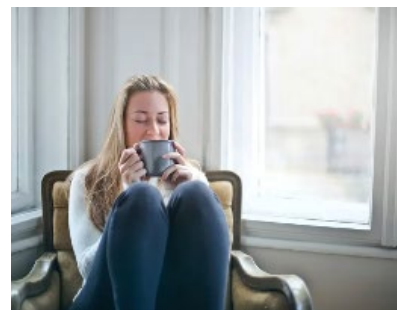


- Overcoming Procrastination
- Allowing for Joy
- Being Present in Nature
- Cultivate and Strengthen Your Patience
- Cultivating Peace

Drop 5 Virtual Weight-Loss Community

The August Blue Cross Blue Shield (BCBS) Drop 5 well-being topics helped GLWA team members learn more about ways to ease stress and concluded with the most asked questions submitted by participants so far this year. August topics included:

- The Dutch Art of Nixsen: Doing Nothing
- Learn to Make a Conscious Choice to Respond Not Reach
- The Many Benefits Behind Talking Out Loud to Yourself
- The Power of Napping
- Well-Being Speed Round



ORGANIZATIONAL DEVELOPMENT (continued)

Financial Well-being: MissionSquare Lunch and Learn Education Sessions



Water Works Park hosted the MissionSquare Retirement Education on-site lunch and learn seminar on August 24, 2023. All GLWA team members were able to meet with MissionSquare retirement plan specialists virtually August 22, 2023. Team members were able to review their retirement goals and portfolio performance during one-on-one consultations for both dates.

Physical Well-being: Team Members Improve Quality of Life



Livongo for Diabetes is a data-based health coaching program that enables people with diabetes to share blood glucose records with Certified Diabetes Educators.

Team members receive a connected blood glucose meter that offers automatic data uploading, real-time insights and feedback on readings, access to expert coaches and more, as well as receive unlimited testing strips and lancets shipped to their homes. With 64 GLWA team members enrolled, 87 percent are engaged with device monitoring. At entry to the program, 38 percent of team members had controlled diabetes ($HbA1c < 7\%$). Currently, 65 percent of team members report controlled diabetes.



Omada closes gaps in care to help team members with diabetes prevention and comorbidities. Currently, 71 team members are enrolled in the Omada for Prevention diabetes program. Over 60 team members have been enrolled in the program for over 17 weeks and they engage with the Omada program on average 25.7 times per week, which includes weigh-ins, group posts and food/activity tracking. Overall, the Omada participants total weight loss is 961.5 lbs. Team members with more than 10 percent weight loss, reduce their risk for chronic disease by 85 percent over a three-year period.

Training

During the month of August, **313** GLWA team members completed **34** safety courses and **20** non-safety courses, for a total of **391.5** instructor-led training hours. Also, **13** GLWA team members and **one** Member Partner completed **18, 360** Water online courses.

ORGANIZATIONAL DEVELOPMENT (continued)

Talent Management

Staffing

The table below provides a breakdown of GLWA Team Members since the last CEO report:

Number of New Hires	4
Number of Separations	11
Total Staffing - Regular FTEs (YTD)	1014

FINANCIAL SERVICES AREA

August 2023 Audit Committee Recap

The most recent regular monthly Audit Committee meeting was held on Friday, August 22, 2023. The GLWA Audit Committee binders are publicly available at www.glwater.org/financials/. The meeting included the following topics.

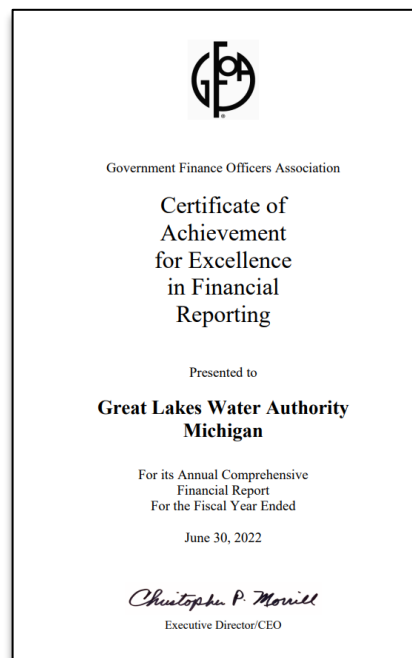
- ✓ A CFO update focused on a number of key topics. An update on the FY 2025+ budget, charges, forecast, and capital planning efforts underway,
 - Discussion regarding the charges outreach & modeling succession plan,
 - A status update on preliminary annual financial audit work,
 - Highlights of the current Workday ERP implementation efforts, and
 - Introduction of a project to review the capital asset database.
- ✓ Review of the July & August 2023 Monthly Financial Report (Executive Summaries attached).
- ✓ Monthly updates on the Business Inclusion and Diversity (B.I.D.) program, Charges Outreach and Modeling team efforts, and Affordability & Assistance team initiatives.
- ✓ Presentation of the current Gifts, Grants & Other Resources reflecting a new format and additional information.
- ✓ Review of the Quarterly Investment report through June 30, 2023.
- ✓ Circulation of the latest Procurement Pipeline editions for July & August 2023.

FINANCIAL SERVICES AREA (continued)

GFOA ACFR Award

For the fourth year in a row, GLWA has been awarded the Certificate of Achievement for Excellence in Financial Reporting by Government Finance Officers Association of the United States and Canada (GFOA) (attached). The Certificate of Achievement is the highest form of recognition for excellence in state and local government financial reporting. Receipt of this award requires that a government publish an easily readable and efficiently organized annual comprehensive financial report. This report must satisfy both generally accepted accounting principles and applicable legal requirements.

There are many areas, groups, and teams that contribute to success. GLWA accountability for achieving these standards is led by the following Financial Reporting & Accounting team members: Jill Kosters, Steve Hoover, Scott Juryn, Cindy Cezat, and Kathy Smith-Roy.



It should be noted that a Certificate of Achievement is valid for a period of one year only. The team remains committed to this high standard and intends to submit the FY 2023 to GFOA to determine its eligibility for meeting the certificate criteria.

GLWA Receives the National Institute for Governmental Purchasing (NIGP) Agency Advancement Award – Honorable Mention

The NIGP Agency Advancement Award was established in 2020 to recognize procurement agencies who have excelled at implementing a procurement-related program or process improvement within their organization. GLWA received this award based on improvements and team member realignment to better serve our internal customers which also translates to improved vendor relationships.

“In June 2022, the GLWA Procurement Team overhauled and realigned our existing procurement structure and the traditional roles and responsibilities of individuals within that structure. Prior to this process improvement at GLWA, the sourcing of goods and services, the administrative tasks associated with procurement, contract administration, and inventory purchases were all managed by the same individual (our buyers).”



FINANCIAL SERVICES AREA (continued)

Our goal with this process improvement was to maximize the amount of time our buyers had to strategically source goods and services by centralizing key procurement functions. Our solution was to expand the capability and responsibilities of our procurement department to four key teams overseeing four distinct, or separate, functions: Administration, Contract Administration, Logistics & Materials, and Strategic Sourcing. Overall, the expansion and centralization of key administrative functions enabled each area of the Procurement Team to take full ownership of their unique area of responsibility. This benefited the work of GLWA by allowing our Procurement team to serve our internal customers more effectively by affording them more time to focus on strategically sourcing the best possible goods and services for GLWA.”

The enterprise-wide coordination, plant and processing intensive, as well as complex capital infrastructure nature of GLWA’s procurement responsibilities require a high level of organization and role definition. The positive outcomes of this effort required engagement of the entire procurement team for an organization that continues to evolve and implement new technology. The leadership and camaraderie are evident in the procurement team member engagement activities. Thank you to the leadership and training efforts of Sonya Collins, Daniel Edwards, Joan Salwasser, Michael Lasley as well as to Megan Savage who prepared the program submittal.

Procurement Team Update



Last month, Sonya Collins, Michael Lasley, and Tina Clinkscales, attended the 2023 NIGP (National Institute for Governmental Purchasing) Annual Forum and Products Exhibition. The NIGP’s Annual Forum is the largest North American educational conference designed exclusively for individuals in public procurement. During this year’s four-day conference, which was attended by a record-breaking 2,570 attendees, Sonya, Michael, and Tina attended a variety of plenary sessions and small group workshops where they had the opportunity to connect with public procurement professionals from across the country and Canada to share experiences, challenges, and best practices. In addition, Sonya Collins, GLWA’s Procurement Director, sat on a panel presentation titled “Case Study: Forging a Path Ahead—The Future of Procurement sponsored by Bonfire.”

The NIGP is an international association established in 1944 that develops, supports, and promotes the public procurement profession. Serving as the trusted advisor to more than 3,000 public procurement agencies, including GLWA, the NIGP counts more than 16,000 public procurement professionals throughout North America as members.

FINANCIAL SERVICES AREA (continued)

Affordability & Assistance

On Wednesday, August 30, 2023, GLWA, the Southeast Michigan Council of Governments (SEMCOG), and Oakland County Water Resources Commission (WRC) cohosted a Community Water Legislation Forum for municipalities, public works departments, and local elected officials. The webinar included updates regarding the statewide water affordability and shutoff protection bill package that the Senator Chang work group has been drafting, as well as an update on the stormwater utility bill. A recording of the webinar and summary of the Q&A portion of the meeting will be posted to SEMCOG's website in the coming weeks.



The FSA team would also like to wish Affordability & Assistance summer intern, Nathan Schechter, good luck as he heads back to school this fall. We appreciate the work he completed this summer, such as collecting and analyzing Member Partner information and collaborating with team members to improve processes related to the Water Residential Assistance Program (WRAP).

Procurement Pipeline

Attached is the August Procurement Pipeline. This month's issue highlights the annual GLWA Vendor Outreach Event. The event will be held in-person at Laurel Manor in Livonia, Michigan on Monday, September 25, 8:30 a.m.–12:30 p.m. Registration and networking opportunities will begin at 7:30 a.m. at Laurel Manor. The Whova Registration page for the event is now open for registration.

This month's Pipeline also includes notice of the Bonfire name change to "Euna Solutions," information on virtual vendor introduction meetings, a reminder of the monthly CEO Report as a useful GLWA news source, and a list of upcoming solicitations.

Financial Services Area Team Spirit Day with the Detroit Tigers

On Thursday, August 31, Financial Services Area team members, along with their families, geared up for some pregame fun before attending the Detroit Tigers vs. New York Yankees game at Comerica Park, which the Tigers won 4 to 3 in 10 innings. *(See photos below).*

FINANCIAL SERVICES AREA (continued)



The Office of the General Counsel's September Report is an attachment to the Chief Executive Officer's Report.

Respectfully submitted,

Suzanne R. Coffey

Suzanne R. Coffey, P.E.
Chief Executive Officer

SRC/dlr
Attachments

- April, May 2023 Executive Summary
- August 2023 Procurement Pipeline
- Office of the General Counsel Report

Key Financial Metrics

The table below provides key report highlights and flags the financial risk of a budget shortfall by year-end as follows: No Risk (green) - Potential (yellow) - Likely (red)

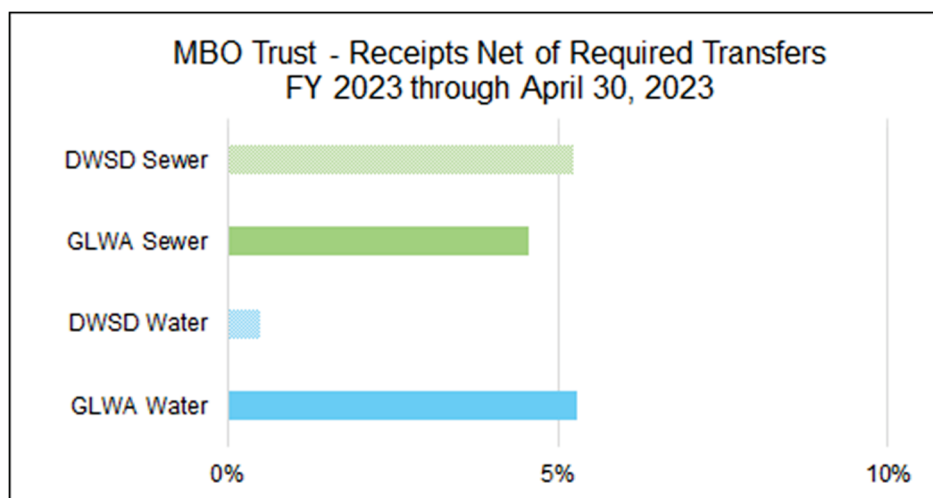
Each variance is monitored by the Great Lakes Water Authority (GLWA) management and, where appropriate, operating and/or budget priorities are re-evaluated. Staff reviews the need for budget amendments quarterly and requests necessary amendments when required based on the most current information available. This report reflects fourth quarter budget amendments approved by the GLWA Board of Directors on June 28, 2023.

For the current period, investment income and sewer capital spend reflect variances to budget outside the normal range. Investment income earned continues to increase monthly and is anticipated to achieve budget expectations by yearend. Sewer capital spend is also expected to show additional improvement prior to yearend.

As of April 30, 2023					
Metric	FY 2023 Budget	FY 2023 Amended Budget	FY 2023 Actual	Variance from Financial Plan	Report Page Reference
Wholesale Water Billed Revenue (\$M)	\$278.8	\$278.8	\$280.6	1%	48
Wholesale Water Billed Usage (mcf)	10,957,000	10,957,000	11,072,000	1%	
Wholesale Sewer Billed Revenue (\$M)	\$228.9	\$228.9	\$228.3	0%	50
Wholesale Water Operations & Maintenance (\$M)	\$120.7	\$130.6	\$124.9	-4%	5
Wholesale Sewer Operations & Maintenance (\$M)	\$153.4	\$170.1	\$166.0	-2%	
Investment Income (\$M)	\$1.9	\$27.1	\$26.1	-4%	37
Water Prorated Capital Spend w/SRA* (\$M)	\$129.6	\$173.3	\$170.5	-2%	28
Sewer Prorated Capital Spend w/SRA* (\$M)	\$104.9	\$90.4	\$80.0	-12%	29

*SRA refers to the capital spending ratio assumption which allows capital program delivery realities to align with the financial plan.

Master Bond Ordinance (MBO) Trust Net Receipts (page 52)



Net cash flow receipts remain positive for GLWA Water and Sewer. This means that all legal commitments of the MBO Trust and the lease payment are fully funded – and that positive cash flow is available for additional capital

program funding in subsequent year(s). DWSD Water reports a surplus of \$500 thousand and DWSD Sewer reports a surplus of \$13.0 million of net receipts over disbursements through April 2023.

Budget to Actual Analysis (page 3)

- FY 2023 information includes the fourth quarter budget amendments which were approved by the GLWA Board of Directors on June 28, 2023.
- The total Revenue Requirements are on target through April 2023.
- The total overall Operations & Maintenance expenses are at 80.6% of budget through April 2023 which is below the pro-rata benchmark of 83.3%. This positive variance equates to a dollar amount of \$9.8 million.

Basic Financial Statements (page 9)

- The Basic Financial Statements are prepared on a full accrual basis and reflect preliminary, unaudited results.
- Operating income for April 2023 is \$66.1 million for the Water fund (22.0% of total revenues) and \$95.7 million for the Sewer fund (23.8 % of total revenues).
- Water Net Position increased by \$ 10.4 million, and Sewage Disposal Net Position increased by \$ 22.7 million for the year to date through April 2023.

Capital Improvement Plan Financial Summary (page 27)

- Water system costs incurred to date are slightly below the amended 107% Capital Spend Ratio assumption.
- Sewer system costs incurred to date are also below the amended 86.2% Capital Spend Ratio assumption.

Master Bond Ordinance Transfers (page 30)

- For April, transfers of \$15.1 million and \$21.8 million were completed for the GLWA Water and Sewer funds, respectively.
- Also, for April, transfers of \$6.0 million and \$6.0 million were completed for the DWSD Water and Sewer funds, respectively.

Cash Balances & Investment Income (page 36)

- Total cash & investments are \$572 million for Water and \$710 million in the Sewer fund.
- Total, combined, cumulative, FY 2023 investment income through April is \$26.1 million.

DWSD Retail Revenues, Receivables & Collections (page 40)

- Water usage through April 30, 2023 is 109.41% and revenues are 106.36% of budget.
- Sewer usage through April 30, 2023 is 103.74% and revenues are 100.40% of budget.
- Combined accounts receivable balances for the water and sewer funds report an increase of \$42.4 million over the prior year.
- Past dues over 180 days make up of 69.8% the total accounts receivable balance. The current bad debt allowance covers 99.4% of past dues over 60 days.

GLWA Wholesale Billing, Receivables & Collections (page 46)

- GLWA accounts receivable past due balance net of Highland Park is 14.78% of the total accounts receivable balance, with the majority of that balance related to one water account dispute currently under discussion.
- The Highland Park past due balance is \$54.9 million. It includes \$41.0 million for wastewater treatment services, \$1.9 million for industrial waste control services, and \$12.0 million for water supply services. Highland Park made a catch-up payment of \$1.7 million on June 3, 2022 and has continued to make additional, monthly payments since that time totaling \$4.1 million as of April 30, 2023.

Questions? Contact the Office of the Chief Financial Officer at CFO@glwater.org.

Key Financial Metrics

The table below provides key report highlights and flags the financial risk of a budget shortfall by year-end as follows: No Risk (green) - Potential (yellow) - Likely (red)

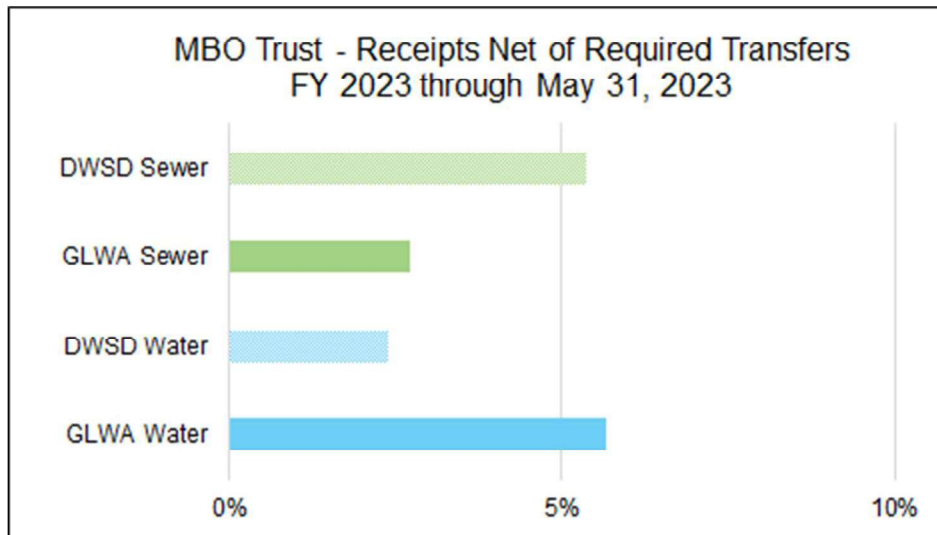
Each variance is monitored by the Great Lakes Water Authority (GLWA) management and, where appropriate, operating and/or budget priorities are re-evaluated. Staff reviews the need for budget amendments quarterly and requests necessary amendments when required based on the most current information available. This report reflects fourth quarter budget amendments approved by the GLWA Board of Directors on June 28, 2023.

For the current period, sewer capital spend reflects a variance to budget outside the normal range. Sewer capital spend is expected to show additional improvement prior to yearend.

As of May 31, 2023					
Metric	FY 2023 Budget	FY 2023 Amended Budget	FY 2023 Actual	Variance from Financial Plan	Report Page Reference
Wholesale Water Billed Revenue (\$M)	\$306.7	\$306.7	\$309.5	1%	49
Wholesale Water Billed Usage (mcf)	12,043,000	12,043,000	12,242,000	2%	
Wholesale Sewer Billed Revenue (\$M)	\$251.8	\$251.8	\$251.8	0%	51
Wholesale Water Operations & Maintenance (\$M)	\$132.8	\$143.7	\$139.6	-3%	5
Wholesale Sewer Operations & Maintenance (\$M)	\$168.7	\$187.1	\$185.2	-1%	
Investment Income (\$M)	\$2.1	\$29.9	\$30.5	2%	38
Water Prorated Capital Spend w/SRA* (\$M)	\$142.5	\$190.6	\$182.0	-4%	29
Sewer Prorated Capital Spend w/SRA* (\$M)	\$115.4	\$99.1	\$92.9	-6%	30

*SRA refers to the capital spending ratio assumption which allows capital program delivery realities to align with the financial plan.

Master Bond Ordinance (MBO) Trust Net Receipts (page 54)



Net cash flow receipts remain positive for GLWA Water and Sewer. This means that all legal commitments of the MBO Trust and the lease payment are fully funded – and that positive cash flow is available for additional capital program funding in

subsequent year(s). DWSD Water reports a surplus of \$2.6 million and DWSD Sewer reports a surplus of \$14.8 million of net receipts over disbursements through May 2023.

Budget to Actual Analysis (page 3)

- FY 2023 information includes the fourth quarter budget amendments which were approved by the GLWA Board of Directors on June 28, 2023.
- The total Revenue Requirements are on target through May 2023.
- The total overall Operations & Maintenance expenses are at 90.0% of budget through May 2023 which is below the pro-rata benchmark of 91.7%. This positive variance equates to a dollar amount of \$6.0 million.

Basic Financial Statements (page 9)

- The Basic Financial Statements are prepared on a full accrual basis and reflect preliminary, unaudited results.
- Operating income for May 2023 is \$71.4 million for the Water fund (21.6% of total revenues) and \$102.9 million for the Sewer fund (23.3 % of total revenues).
- Water Net Position increased by \$ 9.1 million, and Sewage Disposal Net Position increased by \$ 20.7 million for the year to date through May 2023.

Capital Improvement Plan Financial Summary (page 28)

- Water system costs incurred to date are below the amended 107% Capital Spend Ratio assumption.
- Sewer system costs incurred to date are below the amended 86.2% Capital Spend Ratio assumption.

Master Bond Ordinance Transfers (page 31)

- For May, transfers of \$15.1 million and \$21.8 million were completed for the GLWA Water and Sewer funds, respectively.
- Also, for May, transfers of \$6.0 million and \$6.0 million were completed for the DWSD Water and Sewer funds, respectively.

Cash Balances & Investment Income (page 38)

- Total cash & investments are \$573 million for Water and \$722 million in the Sewer fund.
- Total, combined, cumulative, FY 2023 investment income through May is \$30.5 million.

DWSD Retail Revenues, Receivables & Collections (page 42)

- Water usage through May 31, 2023 is 109.71% and revenues are 106.86% of budget.
- Sewer usage through May 31, 2023 is 104.05% and revenues are 100.48% of budget.
- Combined accounts receivable balances for the water and sewer funds report an increase of \$34.9 million over the prior year.
- Past dues over 180 days make up of 70.2% the total accounts receivable balance. The current bad debt allowance covers 100.8% of past dues over 60 days.

GLWA Wholesale Billing, Receivables & Collections (page 48)

- GLWA accounts receivable past due balance net of Highland Park is 20.38% of the total accounts receivable balance, with the majority of that balance related to one water account dispute currently under discussion.
- The Highland Park past due balance is \$55.1 million. It includes \$41.1 million for wastewater treatment services, \$1.9 million for industrial waste control services, and \$12.1 million for water supply services. Highland Park made a catch-up payment of \$1.7 million on June 3, 2022 and has continued to make additional, monthly payments since that time totaling \$4.5 million as of May 31, 2023.

Questions? Contact the Office of the Chief Financial Officer at CFO@glwater.org.

Welcome to the August edition of *The Procurement Pipeline*, a monthly newsletter designed to provide updates on doing business with the Great Lakes Water Authority (GLWA).

GLWA's 2023 Vendor Outreach Event

In the July 2023 edition of the *Procurement Pipeline*, we announced that GLWA will be hosting a Vendor Outreach Event on September 25, 2023. GLWA's event will be held in-person at Laurel Manor in Livonia, Michigan and will help both existing and new vendors learn more about doing business with GLWA. Read below for details about GLWA's upcoming outreach event and how to register.

- ✓ The event will be held from 8:30am to 12:30pm. Laurel Manor will open at 7:30am for registration and networking opportunities. Breakfast will be served.
- ✓ Informative presentations by GLWA Leadership will be followed by breakout sessions with GLWA Team Members involved in the procurement process.
- ✓ Dedicated resource rooms will be available throughout the event where vendors can speak one-on-one with members of the GLWA Procurement and Accounts Payable Teams as well network with other Vendor attendees and GLWA partners.

Registration is now open at the event's [Whova Registration page](#). GLWA encourages interested Vendors to pre-register and download the free Whova App which will enable event attendees to create a unique profile and begin connecting and networking with other registered attendees both before and after the September 25th event.

GLWA looks forward to continuing to build relationships with the Vendor Community on whom we rely as an integral partner in our mission to provide water of unquestionable quality to the Southeastern Michigan communities that we serve. Questions about GLWA's Vendor Outreach Event may be directed via email to [Michael Lasley](#) and [Megan Savage](#). We hope to see you there!

Bonfire (Euna Solutions) Multi-User Support Feature Now Available

Multi-user support is now available to vendors with profiles in GLWA's [Bonfire Procurement Portal](#). This means vendors can now add multiple users from within their organization to a single Bonfire account. A new "invite" feature has been created which enables Vendors to merge existing Vendor profiles, removing duplicate records and enabling more effective collaboration. GLWA recommends Vendors review this new enhancement.

Instructions for [creating a profile in Bonfire with multi-user support](#) as well as instructions for [merging existing vendor profiles](#) under a single organizational account are available on Bonfire's [Vendor Support](#) page. Additional questions may be directed to Bonfire [Technical Support](#).

Virtual Vendor Introduction Meetings

If you are interested in learning more about doing business with GLWA, contact us at GLWAVendorOutreach@glwater.org to schedule a virtual vendor introduction meeting. Topics include information on submitting a competitive bid or proposal to any GLWA solicitation.

Keeping up with GLWA

Our Chief Executive Officer (CEO) Monthly Report provides a wealth of information and news about important initiatives within GLWA's service territory that impact GLWA, its member partners, and the public. To read the July 2023 Monthly Report, please [click here](#).

What's Coming Down the Pipe?

Current Solicitations: Register in GLWA's [Bonfire Procurement Portal](#) for new solicitations and contract award information.

Upcoming Procurements: Next Three to Nine Months—See newsletter page 2.

Visit GLWA online!

To see the GLWA Vendor homepage, please visit www.glwater.org or contact us via email at procurement@glwater.org.

Upcoming Solicitations August 2023

Category	CIP #	Description/Project Title	Budget Estimate
Water System (next four to nine months)			
Construction	122004	96-Inch Water Transmission Main Relocation - Phase III - Construction	\$90,000,000.00
Construction - Pre-Purchase	122004	96-Inch Water Transmission Main Relocation-Phase III- Pre-Purchase Pipe	\$2,300,000.00
Construction - Pre-Purchase	122004	96-Inch Water Transmission Main Relocation-Phase III- Pre-Purchase Valves	\$3,000,000.00
Construction	122016	Downriver Transmission Main Loop-Phase I	\$20,700,000.00
Wastewater Systems (next four to nine months)			
Construction	260510	CSO Outfall Rehabilitation Phase VI	\$15,000,000
Construction	211005.2	WRRF Pump Station 2 VFD Replacements	\$12,000,000
Construction	211007	Pump Station No. 2 Bar Racks Replacement and Grit Collection System Improvements	\$96,000,000
Water System (next three months)			
N/A			
Wastewater (next three months)			
Construction	260211	Emergency and/or Urgent Sewer Repair II	\$6,000,000
Construction	232002	Freud & Connor Creek Pump Station Improvements	\$125,000,000
Design-Bid-Build	261001	WRRF Rehabilitation of Secondary Clarifiers	\$6,000,000
Professional Services	N/A	800MHz Radio Assessment and Solution Implementation	\$3,500,000
Projects moved to Procurement Team (Preparing for solicitation on Bonfire)			
Professional Services	O&M	CSO Facility Accusonic Meter Maintenance	\$3,000,000
Professional Services	O&M	Overhead Door Preventative Maintenance and Repairs	\$892,000
Professional Services	O&M	Snow Removal and De-icing Services	\$2,158,106
Professional Services	O&M	Water and Wastewater Services Charges Consultant	\$300,000
Professional Services	170506 & O&M	Water Transmission Main, Valves and Other Urgent	\$21,500,000
Construction	260211	Sewer Rehabilitation and Repair II	\$18,000,000

Vendors should continue to monitor [Bonfire](#) for solicitation updates.

Acronyms		
WRRF: Water Resource Recovery Facility	CSO: Combined Sewer Overflow	WTP: Water Treatment Plant

Office of the General Counsel – September 27, 2023

- ***Legislative Updates:*** The Office is also monitoring infrastructure spending bills at the federal and state level.
- ***Gordie Howe International Bridge:*** GLWA filed a notice of claim with the Court of Claims related to its relocation claim.
- ***June and July Rain Events:*** The Office is providing legal support in response to the significant rain events in June and July. Recently, the trial court dismissed most of the lawsuits against GLWA based on governmental immunity. The Plaintiffs are appealing the decision.
- ***Trenton Water Main:*** The Office is negotiating the transfer of the 24-inch water main to GLWA.
- ***Contract Negotiations:*** The Office is negotiating 30-year wastewater disposal services contracts with sewer member partners that do not have a model contract.
- ***Environmental and Workplace Safety Compliance:*** The Office continues to work with the COO and team leaders from both the water and sewer systems to comply with regulations and to respond to any alleged violations.
- ***Record Retention Policy:*** The Office submitted GLWA's record retention policy to the State.
- ***Industrial Pretreatment Program ("IPP"):*** The Office also continues to provide assistance on PFAS and PFOS matters, including comments on the new drinking water regulations.
- ***Real Estate:*** The Office is working to secure easements and acquire properties related to various water and sewer projects. Each real estate transaction will be presented to the Board for approval when they are fully negotiated.
- ***Member Outreach:*** The Office continues to be an active participant in Member Outreach sessions.
- ***Main Relocations:*** The Office continues to support water operations in its discussions with community stakeholders regarding water main relocations.
- ***Civil Litigation and Arbitrations:*** The Office continues to vigorously defend actions against GLWA, including a class action lawsuit regarding IWC charges. The collection actions against Highland Park are on stay until October 1, 2023, pursuant to the Interim Agreement between the parties.

- **Labor Relations:** The Office continues to provide legal advice to Organizational Development on labor relations and employment matters.
- **Procurement:** The Office continues to assist GLWA's Procurement Team negotiate contracts, change orders and amendments and interpret contractual provisions. The Office is also assisting with the Procurement Policy's Procedures and updating GLWA's template contracts. The Office is part of a cross-functional team working to complete significant revisions to the GLWA construction contract, including consideration of using an entirely new contract format. The Office continues to provide advice on federal grant compliance.

Statistics:

Contracts approved as to form:	47
Contracts drafted or revised:	143
Subpoenas/Information requests received:	10
Subpoenas/Information responded to:	9