



Office of the Chief Executive

735 Randolph Street, Suite 1900
Detroit, Michigan 48226

April 24, 2024

The Honorable
Board of Directors
Great Lakes Water Authority

RE: CEO Report – April 24, 2024

Chairperson Baker and Directors,

I am pleased to begin my report by acknowledging that last month, we reached a significant milestone in the finalization of the settlement between GLWA, the state of Michigan and the city of Highland Park with both the Highland Park City Council and the GLWA Board of Directors conditionally approving the Settlement Agreement, which includes the Water and Sewage Services Contracts and the revised Trust Agreement. The parties have agreed to further changes to the Trust Agreement and the next step in the process is for the Trust Agreement to be implemented and funded by Highland Park, which is expected within the next 60-90 days.

Once the conditions precedent are met as outlined in the [bad debt recovery credit program](#) adopted by the Board of Directors on November 16, 2023, and the Trust Agreement is implemented as intended, GLWA will apply credits to first-tier member partner accounts who had previously absorbed portions of Highland Park bad debt expense in their GLWA service charges. The credits program is designed to reimburse water system member partners by approximately \$5 million and sewer system member partners by \$15 million. First-tier member partners are those that have a direct contractual relationship with GLWA. It is likely that this will occur in the fourth quarter of the current fiscal year, which ends on June 30, 2024.

I want to continue to express my thanks to everyone involved for the countless hours invested to allow us to move past conflict and into a collaborative member partner relationship.

As you may have seen recently, the Environmental Protection Agency issued its final rule setting drinking water standards for six per- and polyfluoroalkyl substances (PFAS). I felt it important to share with you that GLWA does not need to take any specific actions to remove PFAS because it is not detected in our drinking water and is consistently below the rule's reportable limit in our source (raw) water. Also, because of the importance of the Great Lakes to Michigan's environment, economy, and public health, GLWA tests its water quality on a more frequent basis than is required by federal or state regulations.

I also wanted to share that last week I had the honor of presenting and moderating a roundtable session at Global Water Summit in London, England, hosted by the Leading Utilities of the World (LUOW). LUOW is an initiative of the Global Water Leaders Group and membership is by invitation-only. GLWA was nominated and admitted to LUOW in 2019. There are currently 70 utility members, 26 of which are in the United States.

The Global Water Summit is a good opportunity to network and learn from other large-scale utilities on topics that are important to us. The title of the conference was “Security for a Changing Planet” and had a focus on changing and extreme weather and how that is impacting water utilities across the globe. I presented/moderated a session on strategies to mitigate overflows and facilitate the creation of regional plans using collaboration between water utilities, governmental agencies, and community stakeholders. This topic is particularly timely, as we turn our wastewater focus to the regional flood mitigation study that we are kicking off this year with the Army Corps of Engineers. The conference also included a tour of London’s Thames Tideway Tunnel which is a 16-mile-long tunnel designed to reduce overflows by capturing, storing, and conveying sewage and rainwater.

As a part of our ongoing community dialogue efforts, GLWA recently held an informational town hall meeting to provide the public with information on the new Freud Sanitary Pump Station that is planned near the existing pump station in Detroit’s Jefferson-Chalmers neighborhood. The meeting was held on April 9 at Immanuel Grace AME Church and was well attended. We plan to continue sharing information with the surrounding community, including a Frequently Asked Question document, which is being created in-part from those questions asked at the town hall. I want to thank Pastors Al and Michelle Baylor for their hospitality and their efforts to assist us in coordinating the event.

To help support the city of Detroit and its execution of the NFL Draft in Detroit this month, we transitioned all team members who are assigned to the Water Board Building to remote work. This is also why we are holding the Board’s meeting today at the wonderful Michigan Department of Natural Resources’ Outdoor Activities Center. We expect all operations at the Water Board Building to return to normal on May 6th.

To close, I would like to share with you that as a part of our efforts to ensure that GLWA is committed to being an employer of choice for those who have served our country, we have met the criteria to be publicly recognized by the Michigan Veterans Affairs Agency with the bronze level status as a Veteran Friendly Employer. In this tight labor market, GLWA continues to seek ways to recruit top talent; this recognition as a Veteran Friendly Employer will showcase GLWA’s commitment to military veteran recruitment, training, and retaining veterans in our workforce. Congrats to everyone in Organizational Development for their hard work to get us this recognition!

PLANNING SERVICES

Enterprise Asset Management Group (EAMG)

GLWA has completed nine of 11.5 miles of the electromagnetic, visual, and sounding inspections on the 36-inch transmission main along 24 Mile Road. The inspected pipe was limited due to issues with dewatering the main. GLWA is developing a plan to replace a valve that is leaking which will allow for better dewatering and complete the inspections along the remaining portions of the pipeline.

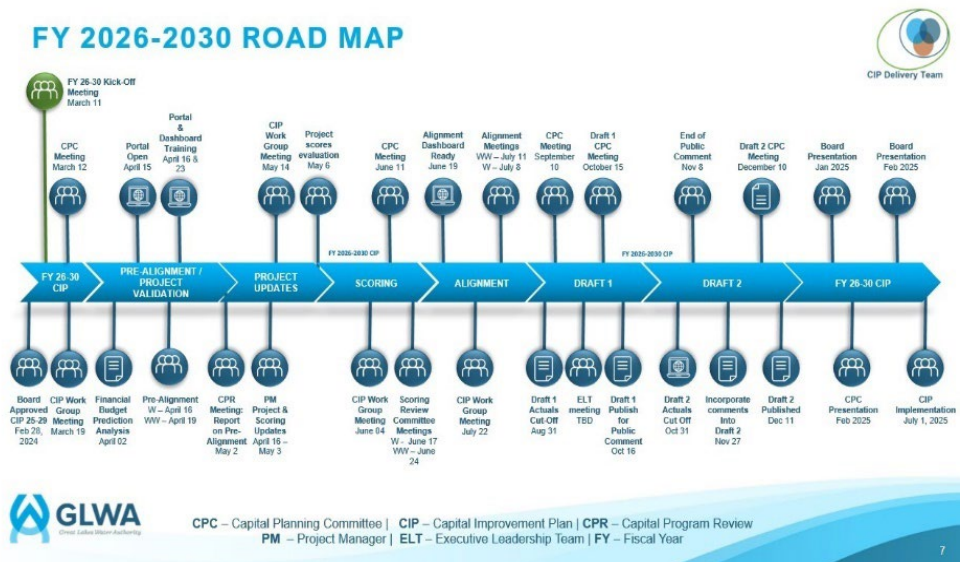
A number of pipe segments were found to be in a state of incipient failure during the visual and sounding inspection. GLWA is working to identify the most appropriate renewal strategies for these pipe segments before returning the pipe into service. GLWA anticipates having the western portion (the most critical portion of the pipeline needed for peak demand season) of the pipeline back in service by Memorial Day.

Capital Improvement Planning Group (CIP)

On March 11, 2024, the Capital Improvement Planning (CIP) Team held the First Annual CIP Kickoff Meeting with all CIP Delivery Team Members. The Annual CIP Kickoff meeting served as a pivotal platform for aligning team members, setting strategic directions, and fostering a collaborative environment conducive to the successful FY 2026-2030 CIP execution. FY 2026-2030 CIP Kickoff meeting attendees included Core CIP Delivery Team Members and partners which include Engineering, Finance, Information Technology, and Planning teams.



The primary meeting agenda included officially launching the FY 2026-2030 CIP development cycle, sharing the roadmap, delineating roles and responsibilities, discussing major milestones, and a preview of upcoming events.



PLANNING SERVICES (continued)

During the kickoff meeting, the CIP team took the opportunity to celebrate successes with the attendees, including the recent approval of the FY2025-2029 CIP by the Board in February, and the rollout of the Project Management Plan (PMP) in January.

Also in March, the CIP team presented to the CIP Work Group on March 19, 2024, where attendees were asked to share insights and feedback relative to how they use the CIP document and possible areas for improvement. In general, attendees appreciated the diverse information formats in the document and found them helpful for different purposes. They also attested that the document is well-organized and easy to navigate.

Kudos to the invaluable and extensive efforts of Brian VanHall and Jason Edberg for their contributions to the alignment with PMP standards and support in the development of Unified Division 1 Standard Specifications. Additionally, updated construction contracts, slated for implementation after April 1, 2024, have been finalized thanks to the tremendous efforts by GLWA's Legal Team Members, Sarah Ahn and Laurie Koester. These achievements stand as a testament to the effective collaboration among Procurement, Legal, CIP, and Engineering teams, highlighting the collective effort that made these accomplishments possible within a limited time frame.

WATER	
Category	Amount
5-Year Total	\$1,071,788
5-Year Average	\$214,358
10-Year Total	\$2,180,458
10-Year Average	\$218,046
<i>*Financial figures are in thousands of dollars (\$1,000's)</i>	
WASTEWATER	
Category	Amount
5-Year Total	\$982,525
5-Year Average	\$196,505
10-Year Total	\$1,822,439
10-Year Average	\$182,244
<i>*Financial figures are in thousands of dollars (\$1,000's)</i>	
PLAN SPENDING SUMMARY	
5-Year Total	10-Year Total
\$2.05 Billion	\$4.00 Billion
5-Year Annual Average	10-Year Annual Average
\$410 Million	\$400 Million

*Summary of Board-Approved
FY2025-2029 CIP Spending*

Systems Planning Group

The **Capital Improvement Plan (CIP) Work Group** meeting held virtually via Zoom on March 19, began with presentations from GLWA's Michael Lasley and Megan Savage highlighting the Procurement team's recent vendor outreach event that was attended by over 200 vendors and 75 GLWA team members, and the implementation of Workday software. Next, GLWA's CIP Director Dima El-Gamal and Michael McClure of AECOM discussed the recently approved FY 2025-2029 CIP and provided an overview of the CIP development process including key milestones for the upcoming cycle. This included a call for Member volunteers to join the FY 2026-2030 CIP scoring committees for water and wastewater projects. Each of these presentations was followed by small group discussions where attendees were given prompts related to their experience with the GLWA CIP and procurement process and how to improve it going forward. The next meeting of the CIP Work Group is scheduled for June 4, 2024.

PLANNING SERVICES (continued)

The **One Water Partnership** meeting on March 14 began with remarks from Cheryl Porter, GLWA's Chief Operating Officer- Water and Field Services, and president of the American Water Works Association (AWWA) beginning in June 2024. This was followed by a presentation from current AWWA president David LaFrance and table discussions about the Water 2050 Initiative that envisions sustainable solutions for the future of water resources. Next, Jeff McKeen, Executive Director of the Southeastern Oakland County Water Authority (SOCWA), was given the GLWA True Partnership award. After lunch, Sara Rubino and Carrie Cox from the Oakland County Water Resources Commissioner's Office presented Senate Bill 660 which seeks to establish a framework for local governments to develop stormwater utilities. Dustin Beebe of GLWA then shared updates on training opportunities through the One Water Institute. The meeting concluded with remarks from Bill Wolfson related to Highland Park, an introduction of David Jones, GLWA's new General Counsel, and then closing remarks from CEO Sue Coffey. The next One Water Partnership meeting is scheduled for June 20, 2024.



Members enjoy a presentation from AWWA President David LaFrance

Members of the **Water Analytical Work Group (AWG)** convened in a virtual setting on March 12 to discuss the progress of the 14 Mile Road Transmission Main pilot project, 2023 pressure compliance, and the GLWA Reservoir Disinfection Program. Anthony Troy of GLWA's Systems Control team offered a comprehensive insight into GLWA's 2023 pressure compliance within the water system. Article 5 of the Water Model contract indicates pressure ranges for each Member Partner are measured as average hourly pressures. GLWA's monthly compliance objective of achieving a 98 percent adherence to pressure ranges across approximately 290 meters was met for 11 out of 12 months in 2023.

Next, Olivia Olsztyn-Budry, John Norton, and Jerrod Wade, representing GLWA's Linear System Integrity Program (LSIP), Energy, Research & Innovation, and Field Services respectively, shared insights into the ongoing pilot technologies that GLWA is testing on the 14 Mile Road transmission main.

The four technologies that GLWA is piloting are:

- Xylem's Wire Break Monitoring System (formerly known as "Marigold"),
- Echologics Survey Assessment,
- KenWave Solutions, Inc. Survey Assessment, and
- HiFi Engineering Fiber Optic Monitoring System.

PLANNING SERVICES (continued)

These technologies serve as either assessment tools, conducting a one-time investigation of conditions, or as monitoring tools installed to provide ongoing data for assessing changes over time. Lastly, GLWA Water Quality Team Leader, Yvette Hayes-Johnson provided an insightful overview of GLWA's reservoir disinfection program. Hayes-Johnson shed light on the critical role played by the 29 reservoirs within the GLWA system, showcasing their significance in providing water storage during emergencies and managing peak demand periods effectively. Further, Hayes-Johnson elaborated on the multifaceted reasons for disinfection of reservoirs highlighting the stringent adherence to AWWA standards.



*GLWA Water Quality Reservoir
Disinfection Team*

On March 20, the **Water Management Best Practices (WMBP) Work Group** convened at the Allen Park Department of Public Works in a hybrid format to deliberate on outlined topics and strategic planning for fall 2024. Dienne Tolofari, PhD, from GLWA's Research & Innovation group provided a detailed overview of GLWA's pilot plants highlighting their function as scaled-down replicas of



Waterworks Park Pilot Plant



Lake Huron Pilot Plant

full-scale water treatment plants. The practical applications of these pilot plants include allowing for experimentation with design changes and testing new treatment technologies and instruments without disrupting operations in the main treatment plants. Tolofari emphasized the pilot plants' pivotal role in facilitating hands-on learning experiences for staff, particularly in onboarding new chemists and water technicians.

Bob Jackovich from the Southeastern Oakland County Water Authority (SOCWA) highlighted the importance of formalized agreements in securing Federal Emergency Management Agency (FEMA) reimbursements for emergency expenses. Attendees gained a deeper understanding of the legal and logistical frameworks underpinning mutual aid agreements and the tangible benefits they offer in bolstering community resilience and preparedness. Attendees learned about the efforts of the Southeastern Oakland County Public Works Association, a collective of representatives from approximately 20 neighboring communities dedicated to promoting efficiency in the public works industry. Walter Davis and Ebony Pedraza from GLWA's Emergency Preparedness Team shared their expertise on National Incident Management System (NIMS)/Incident Command Structure (ICS) training. The group worked together to shape content for an upcoming Emergency Response Training Workshop for fall 2024. Pedraza's emphasis on the significance of NIMS/ICS training underscored GLWA's commitment to equipping GLWA team members and member partners with the tools and knowledge necessary for effective crisis management.

PLANNING SERVICES (continued)

Wastewater Analytics, Planning, and Metering

The Wastewater Analytics, Planning and Metering group assisted the Energy, Research and Innovation group with a Climate Pollution Reduction Grant application by estimating greenhouse gas reductions associated with constructing new anaerobic digesters at the Water Resource Recovery Facility. The project would provide sufficient digester gas, a renewable fuel, to displace all natural gas use at the biosolids facility and reduce non-biogenic emissions by 99.7 percent!

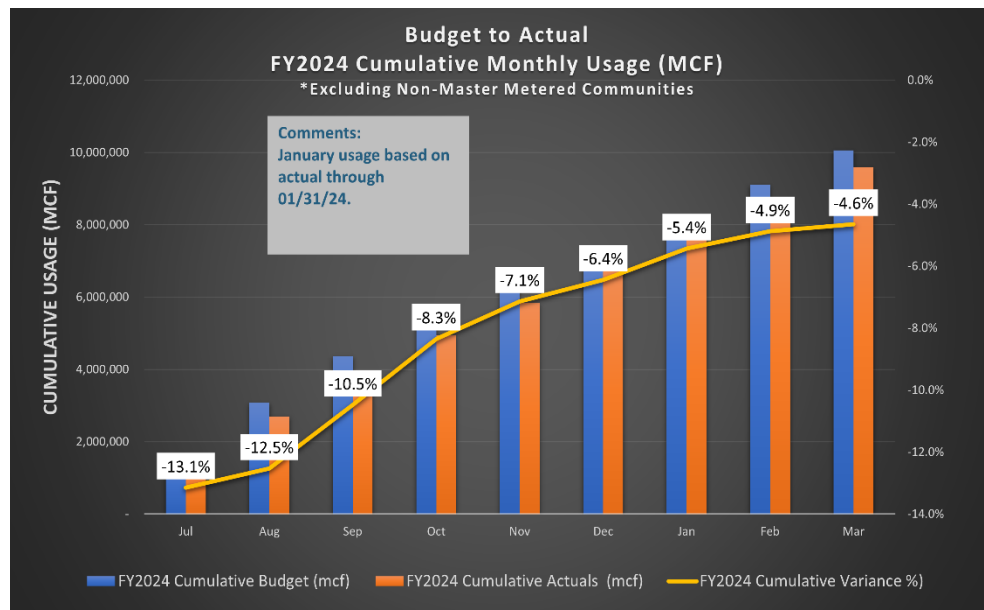
Initial meetings have kicked off with the University of Wisconsin-Madison to discuss modeling high-resolution rainfall measurements with the incorporation of spatial and temporal distributions to assess the impacts on the regional system and comparisons to standardized storms.

Water Analytics, Planning and Metering

The Water Analytics, Planning and Metering group performs monthly analysis of wholesale water sales versus the budgeted volumes, which are based on a three-year average. Below are the key takeaways for fiscal year 2024 as of the end of February.

- Water usage is forecasted to be 3.2 percent below budgeted amounts.
- Revenues are forecasted to be approximately \$4.4 million (1.3 percent) below budgeted amounts.

The mild and rainy summer (peak season) is the primary cause of the decreased water sales. The off-peak season's water sales are trending in line with the average for the previous three years. The budget to actual cumulative monthly usage chart for FY 2024 is displayed below.



WASTEWATER OPERATING SERVICES

Wastewater Operations

The Water Resource Recovery Facility (WRRF) operations complied with the Water Quality Standards for the month of March with the exception of the issue below.

There were two wet weather events in March. A mercury sample was collected and analyzed for the first event. The second event was of short duration, lasting approximately three hours. The team collected the mercury sample for the second event, but later realized this sample was not qualified because the wet weather event had ended. The Michigan Department of Environment, Great Lakes, and Energy (EGLE) was made aware of this. There are occasions where the complexity of the National Pollutant Discharge Elimination System (NPDES) permit may result in potential non-reporting violations, which are of a technical nature but pose no negative impact on the environment.

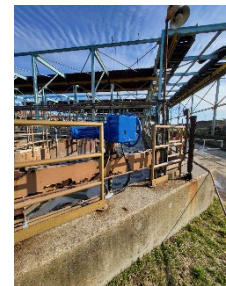
Maintenance



There was substantial flaking paint on the walkway to Electrical Building 11. It was suspected that the paint was lead and needed to be abated. In coordination with the WRRF Facilities Maintenance team, the Operations Laboratory tested a sample of the paint and confirmed that it contained lead. The Facilities Maintenance team, identified the potential hazards in that area, promptly contacted contractors to mobilize to perform lead abatement and repaint the area. The

vigilance of our team in response to identified hazards greatly improved the safety condition of the WRRF. Pictures of the paint flaking in the hallway and the hallway after the new painting was completed are shown above in both the left and right photos.

The Central Maintenance team is working on rehabbing the Pump Station 2 effluent gates, sluice gates (SG) 37, 38, 39, and 40. Under almost all circumstances, SG-39 and SG-40 are left open while SG-37 and SG-38 are left shut. This rehab project will include the replacement of the gate actuators and the development of a gate-exercising program, in conjunction with operations, to ensure that the gates will be operated periodically to ensure that they are operable when needed. A new actuator is placed on SG-38 pictured in the right photo.

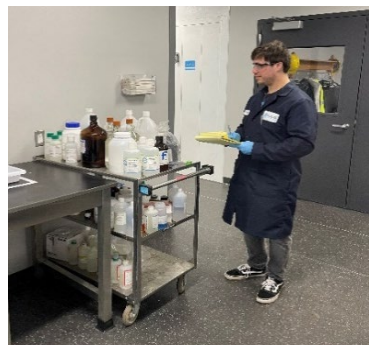


WASTEWATER OPERATING SERVICES (continued)



The Central Maintenance, Incineration, and Dewatering Electrical Instrumentation Control Technician–Electricians (EICT-Es) worked together with *Team Leader Raymond Zdonkiewicz* (pictured left) to isolate a ground fault in EB 25. This substation serves the Complex 2 Incinerators and is critical for plant operation and compliance with our NPDES permit. If a second ground fault were to occur before this ground fault could be isolated, a shutdown of the incineration process could have occurred. **Zdonkiewicz** and the team quickly isolated the ground fault to a high bay lighting fixture and disconnected it, clearing the ground fault. The high bay lighting fixture is scheduled to be repaired. Good job to Zdonkiewicz and the team on quickly identifying and mitigating the issue! **Zdonkiewicz** is holding the “big” current sensor used to isolate the ground fault.

Laboratory



Easterling taking inventory

Chemist Tosin Olojo (pictured right) is comparing filters to use in Phosphorus analysis for process control. She is evaluating comparability of results and checking for any potential Phosphorus carry over, as well as preparing a cost evaluation to find the most cost-effective and efficient option for quick preparation of Phosphorus samples.



Olojo testing filters for soluble Phosphorus analysis

Chemist Chris Easterling (photo shown above left) is working on updating and formalizing the laboratory chemical inventory management. Chris is removing all expired chemicals. In addition, he will be implementing chemical inventory tracking to better inform chemical orders and ensuring continuity of operations.



*Hainite Tuitupou
Training Video snippet*

Chemist Hainite Tuitupou is developing training videos for the team. She has just completed a video for Phosphorus analysis that will help new team members with their training and provide consistency of analysis. (Photo shown left).

WASTEWATER OPERATING SERVICES (continued)

The team continues to update its standard operating procedures and their work on a time study. Team members Mickey Ferdinand, Elliott Boinais, Chris Easterling, and Dan Agnew have been developing job aids for the team. The job aids for backflushing at multiple sampling stations, analyzer maintenance and calibration have been created.

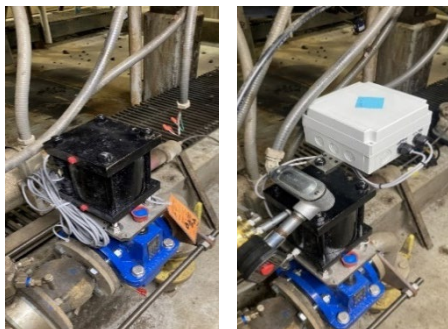
The Process Automation and Control System team is working with the lab to add to the Ferric System Alarm Guidance and develop a summary page in Ovation that will provide all pertinent information regarding the ferric system in a summary format page. The team also continues its efforts to label sampling sites and other laboratory areas.

Process Automation & Control System Team (PACS)

PACS team members successfully executed an upgrade of the Oakwood Combined Sewer Overflow facility's control system. The facility received new workstations, servers, network switches, power supplies, and controller flash cards. In parallel to the upgrade, the PACS team improved the cabling in the controls network cabinet.



*Pre-upgrade and post- within
the network cabinet*



*Old isolation valve (Left)
New isolation valve (Right)*

New dilute polymer isolation, solenoid, and 3-way isolation valves serving belt filter press 2 were installed by the PACS team at the WRRF's Complex 1 Belt Filter Press facility. The team mounted a new junction box for the valve limit switch wiring and connected new air lines running from the air valve to the isolation valve.

The PACS team installed, wired, programmed, and tested new Variable Frequency Drives (VFD) for incinerator nine and 10 center drives. Post installation, the team successfully concluded functionality testing.



*Incinerator nine (Left)
Incinerator 10 (Right)*

WASTEWATER OPERATING SERVICES (continued)

Industrial Waste Control

EGLE indicated the completion of its pretreatment audit as of April 1, 2024.

Engineering and Construction

Wastewater Projects in Construction:

CIP Construction:

CIP 211002, Contract PC-795 – Pumping Improvements at Pump Station 2 (PS2)

Newly installed Pump No.14 did not meet the performance requirements specified in the contract. Contractor Flowserve believes that the existing siphon valve on Pump No.14 is not functioning as intended and hence affects the pump's performance. GLWA procured new siphon valves and the existing valve and new valve are being tested at the HESCO facility. Pump No.14 will be tested with the new siphon valve soon to determine the performance of the pump. Currently, Pump No. 14 is at the Detroit Pump facility to assess and repair the damage occurring on the thrust bearing from the reverse flow.

CIP 211005.3, Contract No. 2104082 – PS2 Mag Meter Replacement

This construction project replaces the six remaining 54-inch end-of-life flow meters for the main lift pumps. The expected delivery date of the magnetic flow meters has been bumped up to mid-April 2024.

CIP 211006, Contract 2103350 – Pump Station 1 (PS1) Improvements (WRRF)

Contractor Weiss began demolition on Air Handling Unit #5 and exhaust fan #13. An alternative conduit routing plan has been discussed and agreed with the GLWA team. Contractor Wade Trim (WT) is in the process of submitting a change proposal request (CPR) to Weiss. The temp process piping workplan was reviewed by the GLWA team and WT is in the process of revising drawings per coordination with the yard piping project and will submit in a change proposal request to Weiss soon.



A wet well isolation kick-off meeting was scheduled with all parties on February 15, 2024, and Weiss is planning to start upper wet well work from mid-April 2024 to mid-July 7, 2024. A meeting with the safety team was conducted to discuss area classification for upper wet well work. Pumproom ductwork removal shown in the photo shown above (left) and air handling unit #5 demolition is shown in the photo shown above (right).

WASTEWATER OPERATING SERVICES (continued)



CIP 211008, Contract 2002190 – Rehabilitation of Ferric Chloride Feed System at PS1 and Complex B Sludge Lines WRRF

The Contractor is continuing to backfill and restore the area over the chemical sump as well as continuing to work on other deficiency list items. The final layer

of resinous flooring in the Ferric Chloride building is complete, and the contractor is working on installing the acoustical ceiling tiles, steel door, and other final minor items.

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

The CON-197 conveyor modifications are still pending a final step to a root cause analysis which will be performed the first week of March. This must be completed before moving to a thirty-day test. The Contractor has completed the screw conveyor liner retainer brackets for the screw hoppers. Screw hopper access hatches are being manufactured and will be out for delivery in April 2024. The Contractor is also procuring the needed valves and other items for the backwash water piping modification change. Ball valve installation has started and will continue for the next few months.

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

Demolition and abatement are near completion in the tunnels under the administration building. Of the 18 improvements, 10 were included on the March Board of Directors agenda. There were four new projects for design that were recommended for the March Board of Directors agenda and eight improvements have received bids and are in the bid review phase with a Guarantee Max Price planned for the April Board of Directors meeting.

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

The contractor is transitioning to the construction phase of the project. Repairs have started in the Complex A & B pipe galleries and planning has started with operations expected to begin tank repairs in March 2024. Osborne is working on design for additional facilities per executed construction change directive E.

CIP 222002, Contract DB-226 – Rehabilitation of the Detroit River Interceptor (DRI) from Alter Road to WRRF

The DRI is divided into Reaches 1, 1A, 2, 2A, 3A, 3B, and 3C under this contract, and each reach is to be rehabilitated. Additional aspects of this project include the Grand Connection Tunnel between the DRI and the North Interceptor East Arm, Flow Control Structures in Reach 3, and the Fox Creek Regulator Reconstruction and Flushing Structure.

WASTEWATER OPERATING SERVICES (continued)

To date, the Grand Connection is complete, the Reach 3 Flow Control Structures are complete, Reach 1 is substantially complete, Reach 1A is nearing substantial completion (within the next two to three months), Reach 2A is nearing substantial completion (within the next two to three months), and Reach 2 is approximately 50 percent complete. Additionally, the Fox Creek Regulator Reconstruction and Flushing Structure construction kick-started in early January.

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

Grouting and spot repairs are ongoing under the City of Detroit Airport. Rebar coating has been paused for the winter until temperatures allow for it to continue. Slip lining between six and seven miles is scheduled to start this month. Design for improvements at the Conner CSO forebay are in process as the need was identified during the heavy cleaning from the CSO.

CIP 260205, Contract 2102824 – Rehabilitation of the NWI from 8 Mile to Tireman

The bulk of the rehabilitation work is complete, though cleaning and the construction of a new manhole are ongoing. The project expects to reach final completion June 1, 2024.

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

Work continues on the Joy sewer West of M-10 while Joy is almost complete. The Brush/Bates sewer segments start after Joy is completed in spring 2024.

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

The project expects to reach substantial completion in March. There are major administrative and punch list items that will need completion after that. It is anticipated this project can be finally accepted by June 1, 2024.

CIP 260508, Contract 2100891 – Rehabilitation of Outfall B-39

The bulk of the rehabilitation work is complete. The project expects to reach final completion soon.

CIP 260510, Contract No. 2204611 - CSO Outfalls Rehab Phase V

The contractor has completed debris removal from Outfall B-35 and continues to remove debris from Outfalls B-4, B-25, B-37, B-41, and B-44. The Contractor has completed spot repairs in the chamber portion of Outfalls B-25, B-26, B-30, B-33, B-34, B-35, and B-41. The Contractor has completed spot repairs in the sewer portion of Outfalls B-4, B-34, and B-35 and continues to perform this work in Outfall B-44.

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

All base contract construction work has been completed. As-builts are under review. The Contractor is currently working at Hubbell Southfield Facility on coordinating with DTE for modification to the electrical cable enclosure, finalizing design, etc. Coordination efforts with DTE are taking longer than expected and the potential schedule impacts are still being evaluated. Once a proposed construction cost is received from the contractor, a construction change directive will be processed.

WASTEWATER OPERATING SERVICES (continued)

CIP 260618, Contract 2003330 – Oakwood HVAC Improvements

Substantial completion of the project was achieved on January 3, 2024. Final close-out was performed which completed the contract March 31, 2024.

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

The rehabilitation of Screen Nos. 2, 3, 4, 5, 6, 7, 8, 13, 14, 15 and 16 have been completed. Rehabilitation of Screen Nos. 9 and twelve has begun. There are a total of 15 screens that are required to be removed, rehabilitated, and reset into operation.



Screen #8 is being rehabilitated

CIP 260701, Contract 2102859 – Conveyance System Infrastructure Improvements

The project is moving forward on schedule and on budget. Currently, 10 of the 21 major cast-in-place concrete backwater gate structures are nearly complete. The Contractor has been steadily installing new backwater slide gates, and flap gates, with over half of them already delivered. Installation of instrumentation is now underway.

CIP 260701, Contract 2201142 – Conveyance System Infrastructure Improvements: Sewer In-System Storage Devices and Valve Remotes Improvements

Manhole modifications and level sensor explosion proof conduit installation at most of the in-system storage devices (ISD) locations and hatch replacements at valve remote locations are complete. Currently, structural, HVAC, and mechanical installations at ISD control vaults are ongoing. ISD repairs and new level sensor installation is underway, as is preliminary testing for control vaults at multiple locations.

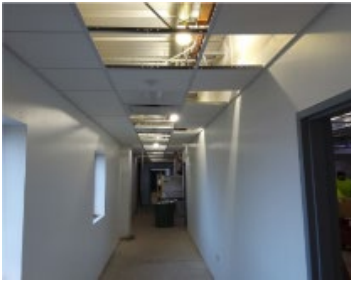
CIP 260802 – Contract 2300394 – WRRF Roof Improvements

This project is to replace various roofs at the WRRF which have exceeded their life expectancy. Key submittals are being reviewed to purchase materials with mobilization expected in the spring.

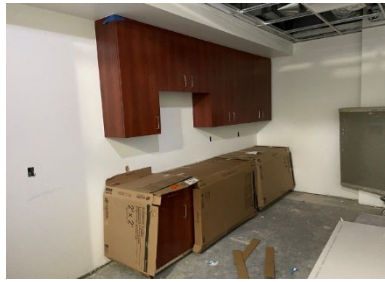
CIP 260901, Contract No. 2101878 – WRRF Hazmat Building Rehabilitation

Construction is progressing at the site. Coordination with GLWA's security Contractor, DA Central and GLWA IT occurred, and the site utility plan was revised accordingly. The revised drawings for the site grading and site layout are complete.

WASTEWATER OPERATING SERVICES (continued)



HAZMAT – Interior Finishes



HAZMAT – Steel Structure

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

The submittal and request for information (RFI) review are ongoing, and progress meetings are being held monthly. The Contractor is working on the trench for the south duct bank that will provide power supply for the trailer area and will also be working on modifying the catch basin heights in the construction area per RFI. Layout of the interior concrete slab is being performed as well as the concrete saw cutting in the Plumbing shop.

Non-CIP Construction:

Contract No. 2101610 – Mag Meter Replacement for Circular Primary Clarifiers

This construction project replaces six end-of-life flow meters. The 96-inch flow meters are associated with the WRRF's primary circular clarifiers. The Contractor recently completed working through their deficiency list, and the project is on track to close-out by early April 2024.

Contract No. 2201101 – Complex II Incinerator 11 Rehabilitation

Pop top damper is now on site. The revised flexible connector is under construction. Repair work on the roof is underway. Pop top access platform design is now complete. Within the incinerator, there are several areas under repair including fire brick replacement, modified drop hole for cake feed, replacement of mortar in gas nozzles.

Job Order Contract (JOC) Task 70 – Contract No. 2102646 – Complex A Gallery Sludge Feed Pump (SFP 2) Pump Replacement

The air relief valve was installed and before the pump and air valve could be tested, the contractor discovered that the new check valve installed downstream of SFP 2 Pump was clogged with rags. The contractor removed the rag for the check valve and pump discharge



pipework, and GLWA operations conducted the test. The test showed that the new SFP 2 Pump still had loss of power (not as much as before) and loss of flow. It is believed that the addition of air and rags into the system is creating the loss of pressure and flow in the system. Engineering is reviewing the data to determine their next action. JOC task

removed 70 Rags from SFP 2 shown in the left and right photos.

WASTEWATER OPERATING SERVICES (continued)

Combined Sewer Overflow (CSO) Control Program

CSO Operations

Operations did not discharge from any of the facilities during the month of March. Plant technicians primarily focused on progress monitoring of corrective work and completion of preventative maintenance for most of the month. The Oakwood and Leib team members participated in design improvement workshops for their respective facilities.

CSO Maintenance

Maintenance installed two different Total Residual Chlorine analyzers at Conner Creek CSO. The team is experimenting between the two technologies in determining the future monitoring equipment for other facilities. The Conner Creek facility was selected as the trial site because it currently receives flow daily for storage to accommodate a CIP project downstream. This allows the team to test the technology while removing the dependency on rain.

The Baby Creek VFDs for the chemical pumps were upgraded. The VFDs had exceeded its useful life. There will be a systems acceptance test performed by the Contractor and Process Automation and Controls System team.

The team continues to work with the contractor for the Miller Road gates rehabilitation. The Miller Road Gates allow the team to control the flow that is routed to the WRRF during wet weather. One of the gates is stuck in the halfway open position and one is closed. Although the current condition does not jeopardize operations of the facility, it is important to ensure proper operation of system gates within the GLWA system. In coordination with the facilities team, GLWA removed roughly four feet of grit from around the two gates.

The contractor was then able to access the closed gate for service to verify if the gate would move once the actuator and coupling assembly were repaired.

CSO Conveyance

The team continues to have success in recruitment and development. In coordination with the Field Services team, the new Conveyance team is being cross trained to lock-out tag-out at the various sewage pump stations. Preventative maintenance for Oakwood and Belle Isle sewage pump stations has been successfully transferred to the Conveyance team.

WATER OPERATIONS

Southwest Water Treatment Plant

Plant Safety and Preparedness

Southwest hosted tours for the Allen Park Fire Department (APFD) on March 13, 19, and 20. The APFD visited us to gain familiarity with the plant to increase both their and our preparedness in the event of an emergency response. Fire personnel was given plant tours that focused on what to know and where to go in the event of emergency as well as locations of fire hydrants, sprinkler systems, fire extinguishers, and automatic defibrillator devices. We also discussed the Plant Emergency Response Plans for numerous potential scenarios. Before departing in their fire truck, the APFD expressed how impressed they were with our focus on safety, training, and planning. We look forward to maintaining this relationship with the APFD to allow for the best possible outcomes if any unfortunate situations may occur.



Water Transmission

Current Emergencies and/or Urgent Items

Below is a list of emergencies and/or urgent projects that are being addressed throughout the water transmission system.

1. North Service Center I-Valve train #4 is indicated as an urgent project. This train went out of service on December 17, 2023, due to a mechanical joint coming apart between the first butterfly valve and cone valve. The team is working on scheduling a temporary repair in case this train needs to be used in an emergency. For the temporary repair to take place, we are working to figure out isolation. In addition, the I-Valve train #4 will require a permanent repair. The team is currently working on a Design Contract. The permanent repair will require a design, furnish of new valves and material, and construction, which has an approximate 18 month timeframe.
2. The 24-inch transmission main broke at Harper Street and Hayes in the City of Detroit on Monday, March 25, 2024. GLWA's crews achieved isolation on Monday. GLWA and LGC worked on getting traffic control and safety setup around the break area. By Wednesday, March 27, 2024, the pipe was repaired, and the crews started to prepare for disinfection.



*I-Valve Vault at
North Service Center*

WATER OPERATIONS (continued)



24-inch watermain break at Harper and Hayes

Utility Review and Permits

Our inspectors in our Utility Review and Permits team have been working diligently to ensure that our utilities are marked to avoid damage to our infrastructure by the placement of other utilities. Our engineers oversee the plan reviews that include drawings and information pertaining to the placement of proposed utilities: such as fiber optics, electrical, gas, etc. After reviewing this information, they will then determine if there are any potential conflicts with GLWA's existing infrastructure.

Our utility and permits inspectors are responsible for marking the location of each facility with paint, stakes, flags, or other customary methods using uniform color code of the American National Standards Institute: blue for potable water and green for sewer lines.



Pictured above left is West Chicago, and Oxbow for MISS DIG Ticket No. 2024031203842. This was a no conflict, marked by Troy Davenport. Pictured above right, Contractor 123.net crossed GLWA 42-inch water transmission main. Troy Davenport was on site to inspect the contractor to ensure compliance with GLWA standard crossing requirements.

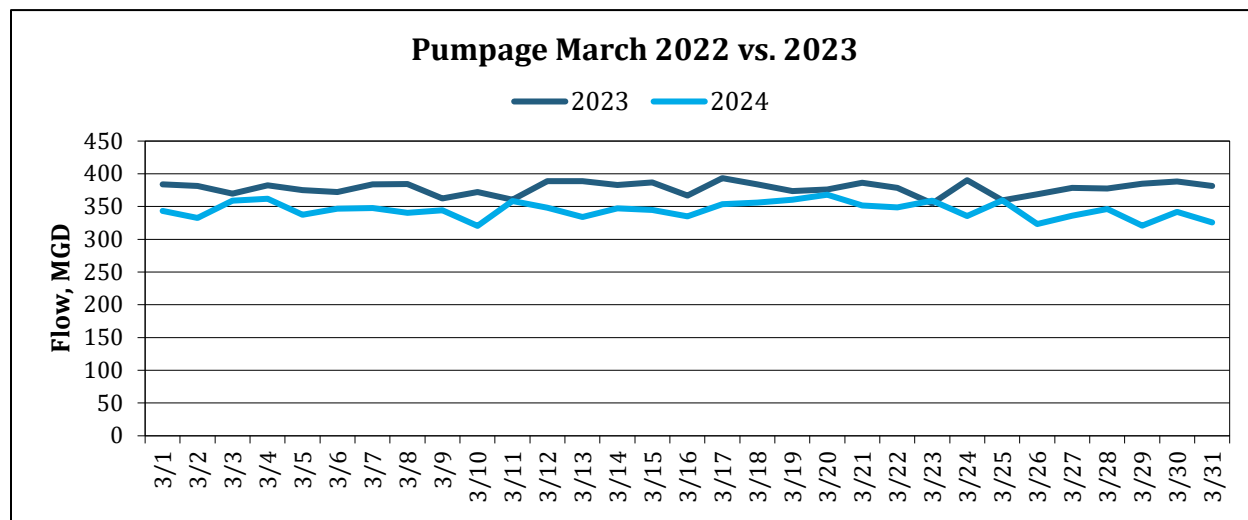
This photo shown right, is 15001 Southfield, MISS DIG Ticket No. 2024030601681, marked no conflict by Troy Davenport.



WATER OPERATIONS (continued)

Systems Control Center (SCC)

There was an 8.8 percent decrease in pumpage in March 2024 compared to March 2023



Research, Innovation & Transformation

Research

John Norton of the Research & Innovation team published an article in a journal of American Water Works Association titled “*Research Collaborations with Water and Wastewater Utilities.*” This work was in collaboration with other major utilities, consulting firms, university partners, and government agencies. The article made several important highlights. A research program is an important opportunity for a utility to optimize processes, support permitting, and inform more cost-effective future planning decisions. A successful utility research program should engage internal and external stakeholders, including government agencies, nonprofits, consultants, and academics. Starting with a small research project that is affordable and likely to be successful is a way to initiate a utility research program.

Wastewater

The Water Resource Recovery Facility (WRRF) welcomed Professor Glen Daigger’s team to get an update on seven years of research his group conducted on behalf of GLWA. There were several notable takeaways from Professor Daigger’s presentation. The wastewater treatment in WRRF is driven by the composition of influent from the sewer.

The group discussed the potential for improving phosphorus removal through management of the sludge blanket in the secondary clarifier and/or injection of ferric chloride.

WATER OPERATIONS (continued)

Research & Innovation is aiming to organize more frequent workshops between WRRF and Professor Daigger's team.

Engineering

Water Engineering Active CIP Project Status

CIP# 119009 (Contract No. 1803990) Lake Huron High Lift and Yard Piping Improvements

Project Manager: Brian Vanhall

This project at Lake Huron Water Treatment Plant adds three pumps that are each rated for 20 million gallons per day, a 72" flow meter on the south high lift header with an 84" butterfly valve for isolation, 16" flow metering for process water usage by the plant, blowoff on the south high lift header, infrared heating within the pump building on the south side, and a replacement valve actuator on the 84" butterfly valve on the north high lift header. Construction for the south header improvements is forecast to be completed in the Summer of 2024. Installation of the new high lift pumps and associated construction has been delayed by the pump supplier and a forecast is to be determined.

CIP# 112006 (Contract No. 1904231) Northeast Flocculator Replacement

Project Manager: Brian Vanhall

This project at Northeast Water Treatment Plant replaces flocculator equipment in all four basins, demolishes inlet gates to each flocculation chamber and installs a baffle block at each basin inlet for flow distribution, improves access to the drywell with stairs and platforms to access the new flocculator gearmotors and replaces the access hatches to the inlet gates in each basin. This project is in the construction phase and flocculation improvements have been completed for Basin #3. Flocculation improvements for Basin #2 are next and are forecast to be completed in the Summer of 2024. The project is on track for overall substantial completion on July 13, 2026, and final completion by March 18, 2027.

CIP# 114011 (Contract No. CON-252) Springwells Steam, Condensate Return and Compressed Air Piping

Project Manager: Brian Vanhall

This project at Springwells Water Treatment Plant replaces the steam generators, majority of steam and condensate piping, condensate pumps and replaces portions of the compressed air and natural gas piping systems. Construction is substantially complete, and the project will obtain final completion by May 7, 2024.

CIP# 122004 (Contract No. 2300600) 96" Water Transmission Main Relocation- Phase II

Project Manager: Corey Brecht

Project is in construction phase. The scope consists of approximately 8,000 ft. of 96" diameter welded steel pipe along Dequindre Road in Rochester Hills. Currently the contractor has installed approximately 1,500 ft. of transmission main along the south segment of the project heading to Hamlin Road. The entire project is currently on track to be completed by fall of 2025.

WATER OPERATIONS (continued)

CIP# 122006 (Contract No. 1803621) Wick Road 48-Inch Water Transmission Main

Project Manager: Corey Brecht

Project is in construction phase. The work included installation of approximately 16,500 ft. of 48" diameter prestressed concrete cylinder pipe parallel to the existing 42" transmission main. The scope also included two cross connections and tie-in at the Wick Road Pump Station. All 16,500 ft. of pipe is installed, and the contractor is waiting for favorable weather to finish pavement restoration work near the pump station in spring. Project will be closed out by June of 2024.

CIP# 111001 (Contract No. 1803769) Lake Huron Low/High Lift Pumping and Filter Backwash System

Project Manager: Eric Kramp

This project addresses long-standing issues with the switchgear, low lift, high lift, and corrosion control at the Lake Huron Water Treatment Plant. Project is just entering the detailed design of the work. For the updates to the switchgear and low lift pumping improvements, the consultant has provided a basis of design for the work. The Basis of Design Report is for the switchgear, low lift, and isolation valves at the High Lift Pump Station. The Basis of Design Report for the high lift pumping, wash water, and phosphoric acid improvements is anticipated relatively soon, upon receipt of the final target concentrations for optimized corrosion control.

CIP# 111006 (Contract No. 2101680) Lake Huron Filter Instrumentation and Raw Water Flow Metering Improvements

Project Manager: Eric Kramp

This is a progressive design build project to address outdated and failing programmable logic controllers and controls throughout the plant, with particular emphasis in the filter building. The project is approximately 30 percent complete with Phase I. Contractor is incorporating comments provided to 30 percent drawings and basis of design report into the 60 percent design documents.

CIP# 111012 (Contract No. 2004549) Lake Huron Flocculator Improvements

Project Manager: Eric Kramp

This project is to bring the rapid mix and flocculation systems at the Lake Huron Water Treatment Plant to current standards. This project is in the study phase, with piloting of engineered hydraulic flocculation underway.

Once sufficient data is collected, GLWA will meet with the Michigan Department of Environment, Great Lakes, and Energy to confirm that engineered hydraulic flocculation will be acceptable to the jurisdictional authority.

WATER OPERATIONS (continued)

CIP# 170801 (Contract No. CS-151A) Reservoir Inspection and design at Imlay, Lake Huron Water Treatment Plant, Springwells Water Treatment Plant, Southwest Water Treatment Plant

Project Manager: John McCallum

This project is the design, inspection and construction management/resident project representation (RPR) services for 10 finished water reservoirs. Design started in December 2018 and as-built drawings are in process now. All 10 reservoirs have been inspected and as-built documents are being prepared. The contract had one change order for additional RPR services. The project remains on budget and is ahead of the contract final completion on January 17, 2025.

CIP# 170801 (Contract No. 1900744) Reservoir Rehabilitation Construction Project at Imlay, Lake Huron, Springwells, and Southwest Water Treatment Facilities.

Project Manager: John McCallum

This low bid project is for 10 cleaned and rehabilitated finished water reservoirs based on the design package provided in Contract No. CS-151A. The contract started in November 2019 with punch list items getting wrapped up this winter. The project remains on budget and is ahead of the contract final completion date of January 17, 2025.

CIP# 170802 (Contract No. 2100236) Reservoir Rehabilitation Phase II (Design), Booster Stations and Water Treatment Plants

Project Manager: John McCallum

This project provides the design, inspection services, construction management, and RPR services for 16 of the system finished water booster stations. Started in July 2022 with design and exterior inspections. RPR services are being provided on the first three reservoirs of the contract during the 2023-2024 low water demand season and will continue through 2027.

CIP# 170802 (Contract No. 2201316) Reservoir Rehabilitation Phase II (Construction), Booster Stations and Water Treatment Plants

Project Manager: John McCallum

This project is the low bid construction component based on Contract No. 2100236 bid package to clean, repair, and add select improvements to 16 finished water reservoirs at Eastside, Wick Road, Schoolcraft, Haggerty, Adams Road, Joy Road #1, North Service Center #1, Water Works Park #1 & #'s 2A/2B, Northeast #1, Michigan Avenue, Lake Huron #3. The project started in December 2023 with construction work underway at three finished water reservoirs, Wick Road, Eastside, and Schoolcraft. The project remains on budget but is marginally behind schedule with recovery expected in 2024-2025. The last set of four reservoirs are scheduled to be finished in April 2027 with final contract completion in July 2028.

WATER OPERATIONS (continued)

CIP# 114002 (Contract No. 2201068) Springwells Electrical Gear Replacement

Project Manager: Justin Kietur

This project is in construction phase. Project involves installation of new medium voltage switchgear and cabling from secondary side of GLWA transformers to the switchgear, and from the switchgear to the Low Lift and High Lift Pumps and plant unit substations. Demolition for new switchgear room is complete, and the majority of cable tray within existing facility is complete. DTE requirements for alterations to the current new switchgear layout represent a significant impact to the project cost and budget, the total impact is not yet known.

CIP# 115005 (Contract No. 2103880) Water Works Park Ventilation System Improvements

Project Manager: Mike Dunne

The project goals are to increase air exchanges and improved distribution of fresh air in areas of the plant that are susceptible to an accumulation of off-gassing from treatment chemicals. To achieve these goals, the existing heating, ventilation, and air conditioning (HVAC) systems will be demolished, and replacement and additional HVAC systems will be installed. The new HVAC systems consist of gas fired make up air units, exhaust fans, ductwork, natural gas piping, ventilation control panels, electrical power, ambient air monitors and associated appurtenances. To date, nearly all of the new HVAC units have been installed but are not yet operational. Construction trades continue to work on installing electrical power, HVAC controls, gas piping, and ductwork to allow for commissioning of the new HVAC units.

CIP# 116005 (Contract No. 2101255) Belle Isle Seawall Rehabilitation

Project Manager: Mike Dunne

The scope of the Belle Isle Seawall Rehabilitation project is to correct excessive erosion at the tip of the southern dike of the Belle Isle Intake lagoon. The erosion has been caused by years of ice flows scouring the dike and recent high-water events. The repair work will require the installation of new steel sheet piling and a rip-rap stone revetement to protect the earthen dike. Currently, the job is scheduled to begin construction in April of this year, after most of the ice on the river has receded. In preparation for construction, submittals are being delivered and reviewed.

CIP# 132016 (Contract No. 2004674) North Service Center Pumping Station Improvements

Project Manager: Tim Kuhns

Project is in conceptual design stage. Project will include rehabilitation of the existing station and consolidation of reservoir pumping within the main pump house eliminating the need for separate reservoir pump buildings.

CIP# 111011 (Contract No. 1904449) Lake Huron Pilot Plant

Project Manager: Nichole Sajdak

Design, construction, startup, and operation of one raw water skid, one pretreatment skid and two filter skids at the Lake Huron Water Treatment Plant is complete.

WATER OPERATIONS (continued)

Pilot plant equipment is currently testing flocculation scenarios to inform CIP# 111012 (Contract No. 2004549) Lake Huron Flocculator Improvements. Contract closed as of February 2024.

CIP# 114017 (Contract No. 2201255) Springwells Flocculator Improvements

Project Manager: Nichole Sajdak

This project replaces the existing horizontal paddle wheel flocculators in the 1958 treatment plant and adds continuous turbidity monitoring of its settled water. Demolition is ongoing in Basins 5 and 6. Flocculators have been released for fabrication with delivery and installation planned in 2024.

CIP# 116002 (Contract No. DB-150) Raw Water Tunnel Rehabilitation

Project Manager: Pete Bommarito

Project is in construction phase. Work within the Pennsylvania Tunnel and Northeast Tunnel is completed. Installation of stainless-steel liner plates is ongoing within the Springwells Tunnel and will be completed the next low demand season.

CIP# 114002 (Contract No. 1900134) Springwells Low Lift Suction Isolation Gate Replacement

Project Manager: Tim Kuhns

Project is in construction phase. Project involves replacement of eight isolation roller gates that control flow between the raw water tunnel and suction ring and the low lift pumps. Contractor has replaced all eight roller gates.

CIP# 115001 (Contract No. 2000610) Water Works Park Yard Piping Replacement and Water Production Flow Metering

Project Manager: Mike Garrett

Project is in construction phase. Project involves complete replacement of yard piping, valves, and venturi meters for the piping system on the discharge of the Water Works Park High Lift Station. The eastern yard piping is completed and venturi meters 5 and 6 have been tested and put into service. The western yard piping is currently under construction and will be completed in summer of 2025. Construction of valve vaults and venturi meter vaults continues at pace in the western yard.

CIP# 122019 (Contract No. 2204376) Jefferson Main Replacement

Project Manager: Tim Kuhns

Project is at 90 percent design phase. Project involves use of 42", high-density polyethylene to loose fit slip-line approximately three miles of vintage 1915 cast iron 48" piping along Jefferson between the Water Works Park Water Treatment Plant and Rivard Street just east of downtown Detroit.

WATER OPERATIONS (continued)

CIP# 132015 (Contract No. 1901767) Newburg Booster Pumping Station Improvements

Project Manager: Jorge Nicolas

Project re-started design phase after a long pause due to finding the right site to build the new station, GLWA Budget re-alignment and GLWA needs re-assessment. Contract Amendment is in process.

CIP# 113009 (Contract No. 2300730) Southwest Chain and Flight Upgrades

Project Manager: Vittoria Hogue

Project mobilized on March 4, 2024. Temporary lighting is being installed and equipment is being delivered to site. Project involves removing and replacing flight and chain equipment in three of the four sedimentations basins at Southwest Water Treatment Plant. Equipment will be removed in basin 1A and removed and replaced in basins 1B and 2A.

CIP# 122016 (Contract No. 1803942) Downriver Transmission Main Loop

Project Manager: Vittoria Hogue

Phase 1 of the project is at 90 percent design, Phases 2 and 3 are at 60 percent design. Project involves installation of looped and redundant mains in the downriver area along Inkster Road and Allen Road to maintain service in the event of a break along the existing mains. Phase 1 involves the installation of a transmission main along Inkster Road. It was decided in the beginning of March to increase the size of the main from 30-inches to 42-inches to maintain minimum contract pressures. The original design intent was to prevent boil water advisories in the event of a main break. The consultant is working a proposal for the additional cost and time for the requested change.

CIP# 132010 (Contract No. 1803312) West Service Center Pumping Station – Reservoir, Reservoir Pumping, and Division Valve Upgrades

Project Manager: Michael Garrett

Project is in construction phase. Project involves new reservoir pumping facility as well as new reservoirs and improvements to various existing yard valves. Construction is nearing completion. Startup and training have begun. Thirty-day testing of new facilities and equipment scheduled to begin February/March 2024. Demolition of existing reservoirs expected to begin after a 30-day test. Substantial completion scheduled for September 2024. Final Completion scheduled December 30, 2024. Site acceptance test for Ovation was completed, project will be moving into 30-day test this month.

CIP# 132007 (Contract No. 1900516) Imlay Station Pumping Improvements

Project Manager: Vittoria Hogue

Project is in construction phase. Project involved right sizing pump 3 at Imlay Pump Station to service the communities west of the station. All equipment has been installed. The pump experienced vibration issues when first tested. Solutions are being completed in February and March and final testing and close out of the contract will follow.

WATER OPERATIONS (continued)

Contract No. 2303227 TOES Contract Task T2-13

Project Manager: Jorge Nicolas

Arcadis is assigned to prepare technical specs for Division 26 (Electrical) and Division 40 (Process Integration). Work is on-going. Burn & McDonell is assigned to assist in Ovation related reviews. Work is on-going.

INFORMATION TECHNOLOGY

IT Security

In the past month, the IT Security team has proactively blocked or thwarted 93,533 spam messages, 5,998 spoofed messages and 64 viruses. Additionally, 9,949 phishing attempts have been caught and 7,426 malware attempts have been blocked.

IT Business Productivity Systems

The IT Business Productivity Team, in conjunction with the Financial Services Area, continues to make good progress on the Workday Finance implementation, which will launch on July 1, 2024. The project team reached a major milestone this month by completing end-to-end functional and integration testing to confirm that our designed business processes and connections to other financial systems work correctly in Workday. Planning continues for training and production readiness including developing training materials and defining cutover tasks. The go-live data migration from legacy systems is beginning as well in preparation for go-live.

INFORMATION TECHNOLOGY (continued)

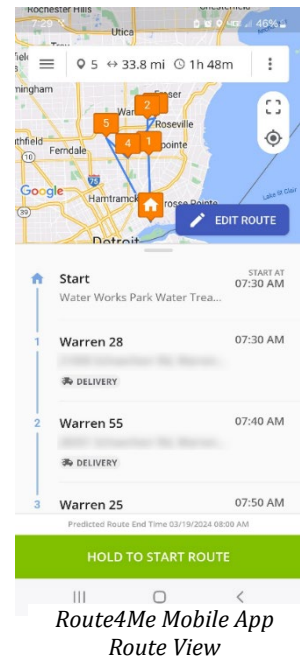
IT Enterprise Asset Management Systems

The IT Enterprise Asset Management Systems team along with the Water Quality (WQ) Team have implemented a mobile-enabled routing software, Route4Me, for use in optimizing the water quality sampling routes. Previously, the investigators for Water Operations mapped out their sample sites on an individual basis using Google Maps the day of sampling. The issue was Google Maps (or similar) which only allowed for a limited number of stops and could not dynamically update the stops based on current traffic conditions and road closures.

The Route4Me application integrates with the WQ Sampling application so all sample sites can be mapped out ahead of time as well as added, updated, or removed whenever they are changed in WQ Sampling database.

The software allows managers and team leaders to plan and optimize the sampling routes before the investigators leave the office in the morning. If one of the investigators is not available that day, the route can be quickly reassigned to someone else or certain stops can be assigned to multiple investigators.

Route4Me delivers the planned routes to mobile devices (see screenshot shown above) for the investigators to use to complete and track their sampling stops. Traffic and road closures are accounted for throughout the day as the software continues to dynamically re-route the next stop in the most optimized way. If an impromptu sampling need comes up (e.g., a main break), then a new stop for the nearest investigator can be added at any time throughout the day. This new software is expected to deliver improved efficiencies to the WQ Team and better coordinate complex sampling routes across GLWA's large water service area.



IT Project Management Office (PMO)

Currently, the IT PMO is managing 16 active projects and is processing nine project requests. The PMO is also assisting with 34 initiatives.

PUBLIC AFFAIRS

2024 Science and Engineering Fair of Metro Detroit

Public Affairs once again helped facilitate judges for the 2024 Science and Engineering Fair of Metro Detroit (SEFMD) held at Huntington Place. Ursula Gray returned as the GLWA Professional Lead Judge and was joined by three new judges -- Yolanda Pressley, Stefanie Burns and Paula Henry. Student winners represented our One Water Partnerships from Oakland, Wayne and Macomb Counties.

PUBLIC AFFAIRS (continued)

The students were poised, informed, accomplished and very impressive. For the first time, an elementary student was included in this year's winner circle. Congratulations to all student winners and thank you to our dedicated judges for a job well done!

One Water News Drop: Women's History Month

In March, Public Affairs proudly celebrated Women's History Month by honoring the remarkable women within the organization in a One Water News Drop. It featured video and images of female GLWA team members in positions ranging from engineers and chemists, to team leaders and technicians. The video thanked all of GLWA's women for their dedication and precision, providing exceptional services to the community, safeguarding public health and fostering innovation in the water and wastewater sectors.



You can watch the video by clicking [HERE](#).

One Water Partnership Streaming

Public Affairs streamed the latest One Water Partnership meeting at The Mint in Lathrup Village. More than 20 people attended the meeting virtually through the stream. The meeting featured a presentation from David LaFrance, the Chief Executive Officer of the American Water Works Association. He discussed Water 2050: A Vision for the Future. Other topics discussed included storm water utility legislation and details on GLWA's One Water Institute.

New Young Professionals Logo

Public Affairs has created a new logo for the GLWA Young Professionals Group. The logo was created to be recognizable for the group and to use for recruiting and informative purposes. The goal was to create something welcoming, on brand, and youthful but professional. The combination of the gradient color palette (to demonstrate personal/professional growth) and inviting font choice work together to create a well-rounded logo for the young professionals.



SECURITY AND INTEGRITY

The Hazmat Unit coordinated and completed a total of 141 hours of training during the month. The group also completed 610 hours of training for Security and Integrity.

The group created a new Active Shooter Response training presentation.

Lastly, Security and Integrity revised and updated the group's Weapons Policy.

ORGANIZATIONAL DEVELOPMENT

Performance Team

Internships

Apprenticeships

Apprenticeships: The EICT-E apprentices began the fifth and final year of their apprenticeship in March. These apprentices are preparing to take their state or city electrician licensing exam.

Apprentices are performing well in their respective Related Training Instruction classes. Their grade averages:

- Maintenance Technician Apprentices – 92 percent
- Water Technician Apprentices – 88 percent
- Electrical Apprentices – 84 percent
- Instrumentation Apprentices – 90 percent

GLWA received a grant payment of \$7,000 from Focus: HOPE to offset the cost of the Related Training Instruction for seven apprentices. The Focus: HOPE grant was awarded for satisfying the requirements of the State of Michigan's Michigan Industry Cluster Approach (MICA) 3.0 grant convened by Focus: HOPE.

The MICA 3.0 grant is sunseting. GLWA attended Focus: HOPE's employer appreciation event to celebrate over 100 job seekers who benefited from the MICA 3.0 grant. During the appreciation event, Patricia Butler, Organizational Development Manager, spoke on the benefits of apprenticeship programs. Two GLWA apprentices, Cleve McCree, Water Technician Apprentice, and Cameron Turner, Electrical Instrumentation Control Technician – Instrumentation Apprentice, share their experiences. These two apprentices were also interviewed by Fox 2's Liz Lewin.



*Water Technician Apprentice
Cleve McCree and Fox 2's Liz Lewin*

Summer Internship Program: Recruiting for summer interns is underway. As of the date of this report, nine summer intern positions have been filled. The summer internship program will launch on Monday, May 13, 2023.

ORGANIZATIONAL DEVELOPMENT (continued)

Benefits and Wellness

Team Member Engagement - Benefits and Wellness

Physical Well-being

Drop 5 Virtual Weight-Loss Community

Held Thursdays at noon, the March Drop 5 Community facilitated by the Blue Cross Blue Shield of Michigan's (BCBSM) well-being team helped GLWA team members learn the health benefits of mobility training, cope with springtime allergies, increase fruits and vegetable servings, and develop morning affirmations.

March focus points were:

- 3 Servings of Vegetables a Day for seven Days Challenge
- Springtime Allergies and How to Cope with Dr. Aaron Kobernick
- Mobility Exercises with Physical Therapist Kai Nimtz
- Make a New Start with Morning Affirmations



Mental Well-being

Wellness Wednesday Meditations



Held Wednesdays at noon, GLWA team members participated in March meditations led by the BCBSM well-being team. Each session focused on helping team members let go of tension and physical resistance, and experience calm and finding joy in the ordinary. March topics included:

- Being Present
- Embrace Daily Joy
- Embrace a State of Mindfulness
- Relaxing Breaths

ORGANIZATIONAL DEVELOPMENT (continued)

Financial Well-being

March Madness Financial Blitz

The One Water Wellness Team hosted the *March Madness Financial Blitz*, a series of virtual webinars focused on various financial topics. More than 50 GLWA team members received resources and tools from seasoned experts that included GreenPath, Public Service Credit Union, LifeLock, and Diversified Members Credit Union.



March topics included:

- Student Loans (GreenPath)
- Building Credit (Public Service Credit Union)
- Identity Theft (GreenPath and LifeLock)
- Financial Coaching (Diversified Members Credit Union)

The series included a Home Buyer Seminar hosted by Diversified Members Credit Union (DMCU) and Member First Mortgage at Water Works Park exclusively for GLWA team members. All GLWA team members in attendance received a certificate for \$500 off their home appraisal.

Retirement Planning Lunch & Learn

The Central Services Facility (CSF) hosted the MissionSquare Retirement Education on-site lunch and learn seminar with over 35 GLWA team members on March 19, 2024.



All GLWA team members were Given the opportunity to meet with MissionSquare retirement plan specialists virtually March 18, 2024. Team members were able to review their retirement goals and portfolio performance during one-on-one consultations for both dates.



ORGANIZATIONAL DEVELOPMENT (continued)

Benefit and Wellness Education

One Water Wellness Office Hours

The One Water Wellness Team hosted weekly on-site office hours during the month of March at the following facilities:

- Central Services Facility
- Water Works Park
- Water Resource Recovery Facility
- Lake Huron Water Plant
- Northeast Water Plant
- Southwest Water Plant
- Springwells Water Plant



BENEFITS AND WELLNESS QUESTIONS???

Your One Water Wellness Team



Cynthia Offutt



Lesley Williams



Au Lisa McGovern



Morgan Mindingali



Sherrian Greenwood

Nearly **100** GLWA team members were able to meet one-on-one for assistance with benefits, retirement, FMLA, and wellness resources.

Training

Talent Management

During March, **204** GLWA team members completed 50 instructor-led training courses: **36** safety courses, and **14** non-safety courses, for a total of **266** instructor-led training hours. In addition, **998** GLWA team members completed **33** online-self-paced training courses (e.g., KnowBe4): **12** safety courses, and **18** non-safety courses, for a total of **16** self-paced training hours.

Also, **15** GLWA team members and **one** Member Partner completed **18, 360** Water online courses.

Staffing

The table below provides a breakdown of team members since the last CEO report:

Number of New Hires	12
Number of Separations	6
Total Staffing - Regular FTEs (YTD)	1038

ORGANIZATIONAL DEVELOPMENT (continued)

GLWA has met the criteria to be publicly recognized by the Michigan Veterans Affairs Agency with the bronze level status as a Veteran Friendly Employer. In this tight labor market, GLWA continues to seek ways to recruit top talent; this recognition as a Veteran Friendly Employer will showcase GLWA's commitment to military veteran recruitment, training, and retaining veterans in our workforce. GLWA is committed to being an employer of choice for those who have served our country.

FINANCIAL SERVICES AREA

The most recent regular monthly Audit Committee meeting was held on Friday, March 22, 2024. The GLWA Audit Committee binders are publicly available at www.glwater.org/financials/. The meeting included the following topics:

- ✓ Presentation providing an overview of the current municipal market outlook provided by GLWA's municipal bond advisors, including discussions regarding potential refinancing opportunities for GLWA consideration, a rating agency update, and a recap of state revolving fund loan borrowing, notice of intent status, current debt reserves, and relevant considerations.
- ✓ Communication regarding the launch of GLWA's Pollutant Surcharge Management Portal.
- ✓ Presentation of the Annual Procurement Report summarizing all spend awarded (Purchase Orders) by GLWA in the previous fiscal year.
- ✓ Presentation of the December 2023 Monthly Financial Report (Executive Summary attached).
- ✓ Monthly updates on the Gifts, Grants & Other Resources activities, and Affordability & Assistance team initiatives.
- ✓ Quarterly updates on Construction Work in Progress and Investment Reports.
- ✓ Circulation of the latest Procurement Pipeline.

Annual Water & Wastewater CFO Conference

On April 1-3, 2024, Nicolette Bateson, Lisa Mancini, and Gregg Kirk attended the 2024 Water and Wastewater CFO Forum in Minneapolis, Minnesota (MN). The Water and Wastewater CFO Forum is the only finance-focused water and wastewater utility organization in the industry. The comprehensive agenda included multiple roundtables addressing current industry hot topics, sector-leading organizational presentations, group panel discussions, and utility member real-life case studies. Specific agenda items included:

- ✓ Tour of the Fridley Water Treatment Campus in Fridley, MN
- ✓ Various keynote speakers addressing utility levels of service, optimizing affordability, employee and retirement benefits including diverse tax considerations, the cost of sustainability and resilience, artificial intelligence enabled technology and cyber prevention and response strategies if compromised

FINANCIAL SERVICES AREA (continued)

- ✓ Breakout sessions highlighting benchmarking and data, long-term Capital Improvement Plan strategies, managing ratepayer affordability, managing costs and funding strategies for Environmental, Social & Governance (ESG) and resiliency initiatives
- ✓ Two informative panel discussions titled “Affordability Frameworks” and “Perspectives and Updates from Rating Agencies.”

The conference provided the attendees a great opportunity to develop a network of peers, engage in interactive discussions in a small-group setting with presentations exclusively from other members, and access to materials, surveys, and other relative documentation.

Affordability & Assistance Update

In March of 2024, GLWA Affordability & Assistance team had the pleasure of welcoming our new Manager, June White. Her key responsibility is to lead a team that reinforces GLWA's Water Residential Assistance Program (WRAP) and actively participates in national discussions around water affordability and the development of healthy homes.

Ms. White has accumulated over 26 years of management experience in both public and private sectors, including expertise in budget management. She holds a Bachelor of Science degree in Business Administration from Wayne State University and a Master of Accountancy from the University of Phoenix.

“I am excited to be a part of the GLWA family, and the advancement of the WRAP Program. I look forward to working with our leadership in the regional, state, and national conversations around water affordability.” June White

Vendor Outreach



On March 20, 2024, members of the GLWA Procurement Team attended Diverse Connections, an Oakland County Purchasing Event, at the Suburban Collection Showplace in Novi, Michigan. The event, which was co-hosted by Oakland County and

the economic development group Oakland Thrive, was designed to help create new connections between buyers from public organizations and vendors interested in doing business with them.

FINANCIAL SERVICES AREA (continued)

Introductory remarks from Oakland County Executive Dave Coulter, Chief Diversity Officer Harry Weaver, and officials from Oakland Thrive opened the event and were followed by opportunities for vendors to network with buyers from government agencies, schools, universities, and local businesses. GLWA staffed a table alongside 17 buying organizations. The Procurement Team had the opportunity to speak with over 150 vendors about how to register in the Bonfire Procurement Portal, submit a successful bid or proposal response to open opportunities, and fulfill the requirements of the Business Inclusion and Diversity (B.I.D.) Program.

Procurement Pipeline

The March 2024 Procurement Pipeline is attached. This month's edition includes information on how to successfully meet the requirements for GLWA's Business Inclusion and Diversity (B.I.D.) Program, upcoming in-person vendor outreach events, as well as guidance to coordinate virtual vendor introduction meetings, a list of upcoming solicitations, and a reminder that the monthly CEO Report is an important source of key GLWA news and information.

OFFICE OF THE GENERAL COUNSEL

- ***Legislative Updates:*** The Office is monitoring infrastructure spending bills at the federal and state level, supporting the activities regarding proposed water affordability legislation, and working with others to develop state storm water utility legislation. In April, GC Jones accompanied CEO Coffey and CACO Wolfson in meetings with state and federal legislators to discuss various GLWA projects and capital improvement plans.
- ***Gordie Howe International Bridge:*** GLWA filed a notice of claim with the Court of Claims related to its relocation claim.
- ***June and July 2021 Rain Events:*** The Office is providing legal support in response to the significant rain events in June and July 2021. Recently, the trial court dismissed most of the lawsuits against GLWA based on governmental immunity. The Plaintiffs are appealing the decision. The Court recently dismissed an additional lawsuit related to the July 2021 storm event. The Plaintiffs are also appealing the decision.
- ***Highland Park Settlement Agreement:*** On March 21, 2024, the GLWA Board voted to conditionally approve the settlement agreement in final (or next to final) form. Earlier, on March 18, 2024, the Highland Park City Council unanimously approved the Settlement Agreement between GLWA and the City subject. The parties are working together to implement these actions and finalize the language of the Agreement.

OFFICE OF THE GENERAL COUNSEL (continued)

- ***Mays, et al v GLWA:*** The Court recently entered an order partially granting GLWA's Motion for Summary Disposition and partially dismissing Plaintiffs' claims.
- ***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. The Office is working on a record storage and disposal policy to work hand in hand with the record retention policy.
- ***Industrial Pretreatment Program ("IPP"):*** The Office also continues to provide assistance on PFAS and PFOS matters, including comments on the new drinking water regulations and negotiating an administrative consent order with an industrial user.
- ***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. In October 2023, the Board authorized settlements of key litigation including a class action lawsuit regarding IWC charges and the collection actions against Highland Park. The Office is working on implementing those resolutions.
- ***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.

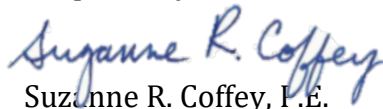
OFFICE OF THE GENERAL COUNSEL (continued)

- 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:	29
Contracts drafted or revised:	111
Subpoenas/Information requests received:	8
Subpoenas/Information responded to:	6

Respectfully submitted,



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

SRC/dlr

Attachments: December 2023 Executive Summary; March Procurement Pipeline



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. First quarter budget amendments were approved by the Board of Directors January 24, 2024 and are reflected in this report.

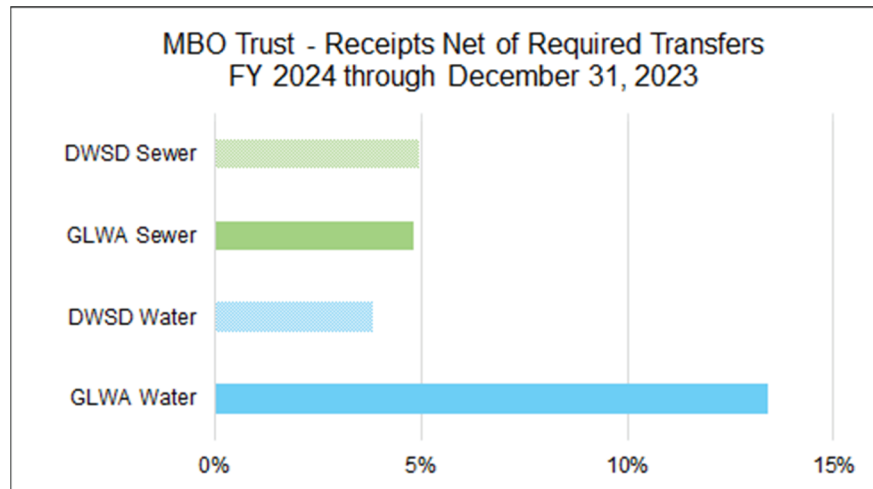
For the current year, water and sewer capital spend, and sewer O&M reflect variances to budget outside the normal range. Capital spend variances reflect evolving changes in timing that the Capital Improvement Planning group continues to monitor and review.

A bond transaction was completed in December 2023 for \$148.5 million to support water system improvements and \$96.8 million to support sewage disposal system improvements.

As of December 31, 2023					
Metric	FY 2024 Budget	FY 2024 Amended Budget	FY 2024 Actual	Variance from Financial Plan	Report Page Reference
Wholesale Water Billed Revenue (\$M)	\$178.8	\$174.8	\$174.0	0%	48
Wholesale Water Billed Usage (mcf)	7,264,000	6,807,000	6,796,000	0%	
Wholesale Sewer Billed Revenue (\$M)	\$141.0	\$141.0	\$141.0	0%	50
Wholesale Water Operations & Maintenance (\$M)	\$76.5	\$81.6	\$79.6	-2%	5
Wholesale Sewer Operations & Maintenance (\$M)	\$102.8	\$110.1	\$102.8	-7%	
Investment Income (\$M)	\$7.7	\$20.2	\$26.9	33%	37
Water Prorated Capital Spend w/SRA* (\$M)	\$119.6	\$112.3	\$83.1	-26%	28
Sewer Prorated Capital Spend w/SRA* (\$M)	\$99.5	\$82.5	\$57.6	-30%	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 53)



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 \$2.4 million and DWSD Sewer reports a surplus of \$7.6 million of net receipts over disbursements through December 2023.

All amounts are unaudited unless otherwise noted. 1

GLWA Audit Committee March 22, 2024

Budget to Actual Analysis (page 3)

- The FY 2024 information includes the first quarter FY 2024 budget amendments approved by the GLWA Board of Directors on January 24, 2024.
- The total Revenue Requirements are on target through December 2023.
- The total overall Operations & Maintenance expenses are at 47.6% of budget through December 2023. This positive variance equates to a dollar amount of \$9.2 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 December 2023 is \$40.2 million for the Water fund (21.5% of total revenues) and \$60.2 million for the Sewer fund (24.5 % of total revenues).
- Water Net Position increased by \$ 5.0 million, and Sewage Disposal Net Position increased by \$ 14.5 million for the year to date through December 2023.

Capital Improvement Plan Financial Summary (page 27)

- Water system costs incurred to date are below the 94% Capital Spend Ratio assumption.
- Sewer system costs incurred to date are below the 82.9% Capital Spend Ratio assumption.

Master Bond Ordinance Transfers (page 30)

- For December, transfers of \$13.5 million and \$18.1 million were completed for the GLWA Water and Sewer funds, respectively.
- Also for December, transfers of \$5.6 million and \$6.9 million were completed for the DWSD Water and Sewer funds, respectively.

Cash Balances & Investment Income (page 37)

- Total cash & investments are \$651 million for Water and \$743 million in the Sewer fund.
- Total, combined, cumulative, FY 2024 investment income through December is \$26.9 million.

DWSD Retail Revenues, Receivables & Collections (page 41)

- Water revenue through December 31, 2023 is 102.68% and usage is 102.01% of budget.
- Sewer revenue through December 31, 2023 is 98.08% and usage is 99.35% of budget.
- Combined accounts receivable balances for the water and sewer funds report a decrease of \$17.6 million over the prior year.
- Past dues over 180 days make up of 62.6% the total accounts receivable balance. The current bad debt allowance covers over 96.2% of past dues over 60 days.

GLWA Wholesale Billing, Receivables & Collections (page 47)

- GLWA accounts receivable past due balance net of Highland Park is 14.09% 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 \$55.2 million. It includes \$40.5 million for wastewater treatment services, \$1.9 million for industrial waste control services, and \$12.7 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 \$8.4 million as of December 31, 2023.
- On November 16, 2023, the GLWA Board of Directors outlined a plan to provide reimbursement credits to Member Partners upon implementation of the approved term sheet that represents a proposed agreement between GLWA, the city of Highland Park, and the state of Michigan. This monthly financial report will reflect the impacts of that term sheet and agreement moving forward as implementation steps occur.

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

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

Procurement Tip of the Month: How to Submit a Successful B.I.D. Program Vendor Diversity Plan

A key part of fulfilling the requirements for GLWA's Business Inclusion and Diversity (B.I.D.) Program includes submitting a successful Vendor Diversity Plan. This written document is scored on a pass/fail basis and becomes part of the executed contract. [B.I.D. Program Requirements](#), which are provided in Bonfire for all B.I.D. qualifying solicitations, helps guide Vendors through the process of creating your Diversity Plan. In addition, Vendors should note that a successful Diversity Plan:

- ✓ Documents the strategies used to encourage participation by small, minority-owned, and disadvantaged certified subcontractors. If not directly subcontracting services, Vendors may also consider encouraging the participation of certified businesses when sourcing any materials or supplies to fulfill the contract.
- ✓ Focuses directly on the specific solicitation to which your company is responding. While you may include information on your company's internal diversity and inclusion efforts, note that this does not fulfill the targeted outreach efforts requested by GLWA.
- ✓ Provides a copy of any diversity certification that your company holds along with any proposed subcontractor's. Certifications may include but are not limited to: Minority-owned Business Enterprise (MBE), Woman-owned Business Enterprise (WBE), Disadvantaged Business Enterprise (DBE), and Small Business Enterprise (SBE). Certification from any federal, state, or governmental unit is accepted.

Resources are available in [B.I.D. Program Requirements](#) for vendors seeking certified subcontractors. GLWA also advises that vendors

attend pre-bid/proposal meetings for additional networking opportunities. Details on these meetings, as well as attendee lists, are published in Bonfire. Questions about the B.I.D. Program may be sent to GLWAVendorOutreach@glwater.org.

Where to Meet GLWA

GLWA welcomes you to visit us at the following upcoming vendor outreach events.

- Diverse Connections. March 20, 2024 from 8:15 a.m. to 12 p.m. in Novi, MI. Event details and registration available [here](#).
- Michigan Public Purchasing Officers Association Reverse Trade Fair. April 26, 2024 from 10:30 a.m. to 3:30 p.m. in Novi, MI. Event details and registration available [here](#).

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 February 2024 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 March 2024

Category	CIP #	Description/Project Title	Budget Estimate
Water System (next four to nine months)			
Construction	111001	Lake Huron Water Treatment Plant – LH-401 Switchgear and Low Lift Improvements	100,000,000
Construction	112008	Northeast WTP Filter Rehabilitation	\$85,550,000
Design	113010	Southwest WTP Flocculation Improvements	\$4,933,000
Construction	122016	Downriver Transmission Main Loop – Phase 1 – Inkster Rd	\$21,000,000
Wastewater Systems (next four to nine months)			
Construction	260510	CSO Outfall Rehabilitation Phase VI	\$10,000,000
Construction	211005.2	WRRF Pump Station 2 VFD Replacements	\$12,000,000
Design	270007	CSO Facility Disinfection Improvements	\$3,900,000
Construction	270006	CSO Facility Improvements II	\$15,000,000
Water System (next three months)			
Construction (Design Build)	122004	96-Inch Water Transmission Main Relocation - Phase III	\$90,000,000
Design	270001	Pilot Netting and Disinfection Facilities at B03, B04, and B05	\$8,000,000
Design	270010	Puritan Fenkell and Seven Mile HVAC improvements	\$1,200,000
Projects moved to Procurement Team (Preparing for solicitation on Bonfire)			
Professional Services	O&M	Emergency Standby Generator Preventative Maintenance	\$2,910,225
Construction	170306	Instrumentation and Control System Plant - wide SCADA Upgrade	\$3,340,000
Professional Services	O&M	Water and Wastewater Services Charges Consultant	\$300,000
Professional Services	O&M	Internal Auditor	\$650,000
Professional Services	O&M	Environmental Health and Safety Assistance	\$2,000,000
Professional Services	O&M	Refuse and Recycling Waste Pickup and Disposal Services	\$655,000
Professional Services	O&M	Fleet Management Services Including Leasing and Upfitting Vehicles	\$14,667,500
Supplies	O&M	Sodium Bisulfite	\$2,315,000
Professional Services	O&M	Water and Wastewater Pumping Stations LED Lighting Upgrades	\$7,500,000

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

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