



Office of the Chief Executive

735 Randolph Street, Suite 1900
Detroit, Michigan 48226

November 21, 2024

The Honorable
Board of Directors
Great Lakes Water Authority

RE: CEO Report – November 21, 2024

Chairperson Baker and Directors,

As you know, the last several years have seen GLWA focused on implementing a number of enterprise-wide technology initiatives that are helping us to continue to build our operational resiliency.

GLWA recently launched Workday, our new enterprise resource planning software, which included new organizational development and finance modules, and just this week we launched NEXGEN, our enterprise asset management software. A major hallmark of this new software is the ability of our operational teams to complete work orders on tablets that have been distributed throughout the organization. This mobile technology enables more real time data to be collected and available for our team members to make more informed decisions whether in the office, within a facility, or out in the field to maintain our assets over their lifecycle.

As you can imagine, the implementation of these two expansive new enterprise resource software programs has been a heavy lift for our team members while they continued to carry out their day-to-day responsibilities. I want to take a minute to thank those involved throughout GLWA who have spent countless hours ensuring that these two initiatives launched as successfully as they did.

Staying with the theme of operational resiliency, I am pleased to report that everything has continued to go smoothly with the increased dosing of the corrosion control additive, orthophosphate, in our five water treatment plants. Also, our team in Wastewater Operations has, to-date, seen no negative impacts to its operations. We continue to monitor the concentration of orthophosphate in the water system, as well as phosphorus in our wastewater system, and are planning to make a second and final adjustment to our dosing concentration to reach the target dosing concentration of 2.4 parts per million. That will likely occur in January 2025. GLWA has prepared a Frequently Asked Questions about this dosage update that can be found on the [Corrosion Control page](#) of our website.

The charges rollout process continues. Last week we conducted Charges Rollout Meeting No. 2, which was an explanation of units of service. There are two more meetings to come in January, the first focusing on the charges for FY 2026 and then the final meeting to hear feedback from our member partners and further present the budget and financial plan. There will also be one-on-one meeting opportunities with member partners and the Charges Outreach & Modeling Team after they receive their charges calculation worksheet in early January.

Dates and locations are now set for a series of four public engagement meetings related to the Southeast Michigan Flood Mitigation Study that we are conducting in partnership with the U.S. Army Corps of Engineers. The meetings will be conducted the first two weeks of December in Wayne (including Detroit), Oakland and Macomb counties. Details on meeting locations are being finalized and will be shared on our website and social media channels as soon as they are confirmed. We invite all those who are interested to come out to not only learn more about the study and its proposed outcomes, but also provide their input on how flooding has impacted them.

Last week, I had the pleasure of joining Deputy CEO Bill Wolfson and Jordie Kramer, our Chief Organizational Development Officer to learn more about the training programs that our union partners from the Michigan Building and Construction Trades Council provide. We also received a tour of their facilities. Over the course of the week, we toured the following training centers: Detroit Union Carpenters and Millwrights, the United Association of Journeyman and Apprentices of the Plumbing and Pipefitting Association and the International Brotherhood of Electrical Workers. It was interesting to see their facilities and understand how we might be able to partner together in the future as we continue to build a strong workforce.

Speaking of tours, I am pleased to report that in October, we hosted a tour of our Water Works Park Water Treatment Plant for our WRAP service delivery partners from across southeast Michigan, providing them with an opportunity to learn about our water treatment process and connect the work they do with the bigger one water cycle.

This week is National Apprenticeship Week. In celebration of our GLWA apprentices and their contributions to our organization, last week we held our annual recognition event at Water Works Park. It was a wonderful afternoon, filled with inspiring testimonials from a broad cross section of GLWA team members involved in our program, as well as words of support from our partners at the U.S. Department of Labor, the Michigan Department of Labor and Economic Opportunity and Focus:Hope. I always come away energized from my interactions with our apprentices and look forward to how our Organizational Development team will continue to grow our program and provide additional opportunities for our team members and members of our community.

I'll end my report as I always do, pointing out how our team members and their efforts are impacting the communities we serve.

First, I'd like to share that thanks to the incredible support of our team members, GLWA raised an impressive \$4,896.65 -- which is \$1,500 more than last year -- to aid in the American Cancer Society's mission to end breast cancer. I am always blown away by the generosity shown by our GLWA family.

Finally, I am incredibly proud to share that GLWA recently received the Detroit Bar Association's prestigious Corporate Citizen award for public service. The award recognized GLWA's contributions to the region and the member partner communities we serve. In particular, the award highlights the educational opportunities provided through GLWA's One Water Institute, the partnering opportunities GLWA and its member partner communities participate in, and our One Water Mission, which is, "To collaboratively ensure a One Water system approach to our regional water and wastewater system that will be economically, socially, and environmentally responsible and sustainable."

PLANNING SERVICES

Enterprise Asset Management Group (EAMG)

The EAMG has been busy working towards the implementation and go-live of NEXGEN, GLWA's new computerized maintenance management system. That system went live on November 4th!

In the past month, EAMG team members have visited five water treatment plants, the Water Resources Recovery Facility, Conner Creek Combined Sewer Overflow facility, and the Central Services Facility for the Asset Management NEXGEN Roadshows. This allowed our team to spend time with front-line staff to learn about their apprehensions regarding going live with the new system and help ease their concerns about NEXGEN.



Figure 1: Asset Management NEXGEN Roadshow at CSF with the Booster Pump Station Maintenance Team

With NEXGEN going live, other work the EAMG has conducted included preventive maintenance plan rationalization and clean up, Planner and Team Leader training, asset onboarding for ongoing capital improvement projects, and onsite and online support to team members across GLWA in preparation to go live with NEXGEN.

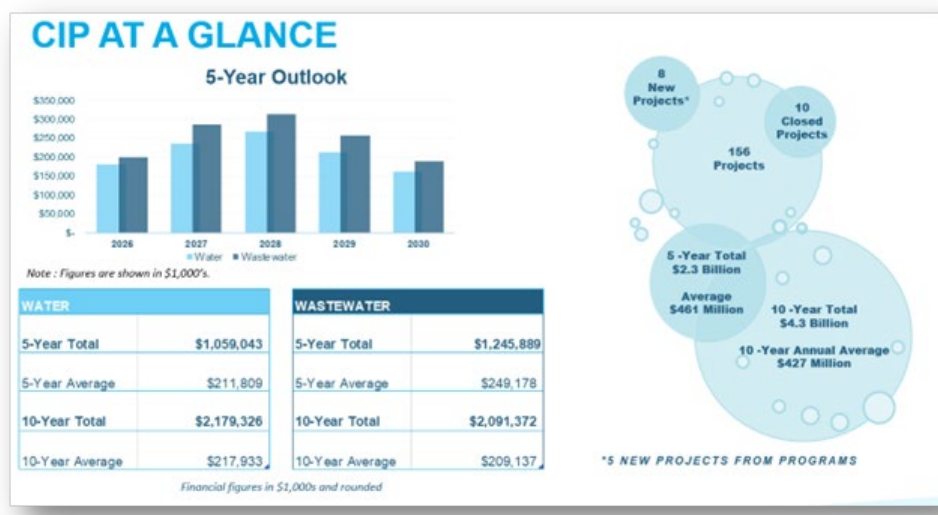
PLANNING SERVICES (continued)

Capital Improvement Planning (CIP):

It is wonderful to report on a CIP milestone progress in October. The CIP Delivery Team's commitment and diligence have been instrumental in achieving this significant milestone: The release of the FY 2026 - 2030 CIP Discussion Draft 1. The release was presented to the Executive Leadership Team on October 2nd and the Capital Planning Committee on October 15th. This draft represents eight months of dedicated work and collaboration across GLWA's CIP Delivery Teams. We extend our gratitude to GLWA's Leadership, the CIP Delivery Teams, and our Member Partner representatives, including Michael Way from Grosse Pointe Shores and Anil Gosine from DWSD, whose support has been invaluable.

On October 16th, the FY 2026 - 2030 CIP was made available for feedback from our Member Partners. Furthermore, on October 17th, the draft was presented to Member Partners during the first Chargers Rollout Meeting #1.

In parallel, the CIP Group is progressing with FY 2026 - 2030 CIP Discussion Draft 2, incorporating updated project budgets and schedules based on current data and project developments.



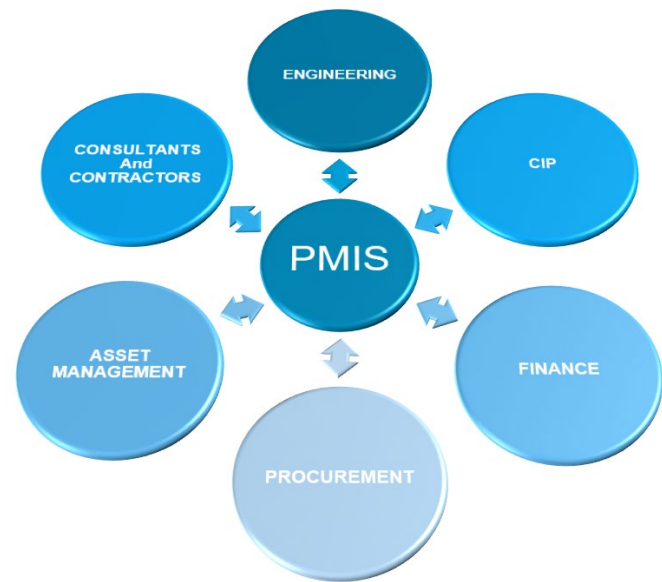
FY 2026 - 2030 CIP Discussion Draft 1 - At A Glance

Following the release of the FY 2026 - 2030 CIP Discussion Draft 1, the CIP Group, supported by Program Management Consultant, AECOM and responding to valuable feedback from our member partners and vendors, has successfully launched the first-ever **"CIP Document Public Dashboard."** This innovative tool enables users, including Board Members, Member Partners, vendors, and others, to efficiently search and explore the current version of the CIP. By applying various filters, users can quickly locate the information most relevant to their needs, making it easier to engage with and analyze the CIP documents in enormous detail.

PLANNING SERVICES (continued)

This dashboard marks a significant step forward in promoting transparency, ease of access, and tailored user experiences in CIP reporting. This dashboard can be found at [CIP Public Dashboard - GLWA \(glwater.org\)](http://CIP Public Dashboard - GLWA (glwater.org)).

Last month, the CIP Group, in collaboration with the IT Group, provided GLWA's Board of Directors with a comprehensive update on the Project Management Information System (PMIS) implementation. The presentation highlighted the negotiations with Kahua and emphasized the importance of adopting a PMIS to streamline processes, improve operational efficiency, and strengthen data confidence across CIP Delivery. The group's efforts emphasized how a well-integrated PMIS will support enhanced project management and reporting capabilities, reinforcing GLWA's commitment to excellence in CIP project delivery.



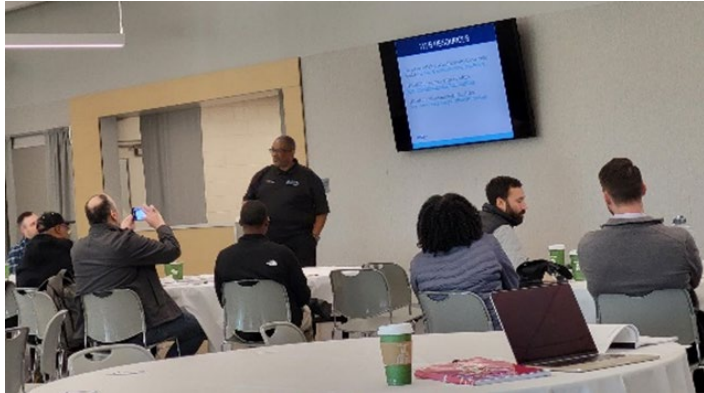
CIP Process and Data Collection – Desired State

Lastly, October was an active month of recruitment for the CIP group, when we successfully filled two key positions. Dan Antosik joined GLWA as the new Manager of Assurances, bringing external expertise to the team, while Mahfuz Rahman, an internal talent, stepped into the Budget Management Professional role. Both hires strengthen our group's capabilities in assurances and budget management. Recruitment efforts remain ongoing for the PMIS System Analyst role, as we continue to seek a skilled candidate to support the implementation of a project management information system.

PLANNING SERVICES (continued)

Member Services Group

The **Water Management Best Practices (WMBP) Work Group** hosted an Emergency Response Incident Command System (ICS) 100 & 200 Training Workshop on Thursday, October 24, 2024. Led by the GLWA Emergency Preparedness Team, the workshop covered the history, structure, key features, and principles of the Incident Command System and its integration with the National Incident Management System. Participants received a comprehensive overview of the ICS structure and resources for managing initial response situations. The workshop was highly successful, with participants rating it an impressive 3.8 out of 4.0.



Walter Davis, GLWA leading Emergency Response Training

The **Water Analytical Work Group (AWG)** met on October 29th at the University of Michigan Detroit Center to discuss Member Partner contract exceedance, Wholesale Automated Meter Reading (WAMR) updates, and Pressure Reducing Valves (PRV) programs. The GLWA Contract Negotiation Team presented on the Member Partner contract exceedance process. The 2024 GLWA system maximum day was June 19th at 571 MG (690 MG in 2023). The 2024 GLWA system peak hour was June 19th at 6:00 am - 7:00 am at 647 MG (789 MG in 2023). For 2024, the City of River Rouge exceeded its maximum day contract value on the system max day. No Member Partners exceeded contract values on the system peak hour. In accordance with Section 5.05 of the water model contract, the AWG recommended, and GLWA concurred, that River Rouge's maximum day value will remain as is for one year, and a corrective action plan will be negotiated.

A screenshot of the WAMR Portal login page. The page has a blue header with the text "WAMR Portal". Below the header, it says "Great Lakes Water Authority" and "Wholesale Automated Meter Reading Portal". There are two input fields: "User Name:" with a placeholder "Enter username" and "Password:" with a placeholder "Enter password". Below these fields is a button labeled "Log In". There is also a link that says "Forgot your password?". A message at the bottom of the login area says "Please enter a User Name and Password".

Doug Inman, GLWA Applications Analyst, showcased updated features of the WAMR system portal. Additionally, members discussed PRVs and maintenance programs throughout the regional system. Anthony Troy, from GLWA, Zach Earp from the Oakland County Office of Water Resources Commissioner, and David Koss from the City of Warren presented on the PRVs and control valves operated and maintained by their respective utilities.

PLANNING SERVICES (continued)

On October 31st, the **Communication and Education Work Group** convened in Allen Park, to discuss ongoing initiatives and strategies for public communication on the Lead and Copper Rule Revisions, Lead and Copper Rule Improvements (LCRI), and lead education and faucet replacement programs. Member Partners engaged in a roundtable discussion, sharing current and planned initiatives aimed at promoting education and awareness around the LCRI. Resources from GLWA's [member resources page](#) and the American Water Works



Association [lead communication site](#) were also shared. The group reviewed a draft cover letter intended to accompany the Tier 1 public notice of Action Level Exceedance. Jerome Bivens from the City of Inkster provided updates on Inkster's early-stage coordination with the Michigan Department of Health and Human Services (MDHHS) for the Lead Education and Faucet Replacement program. Inkster is working with the state to

train employees in community outreach, which includes lead education, home visits, plumbing assessments, and assistance with applications for the MDHHS Lead Safe Program. Inkster aims to launch this educational outreach on December 1st. Additionally, the GLWA Public Affairs Group presented the second phase of the TAP-IN recruitment campaign, outlining plans to further expand the initiative. The latest video from the TAP-IN campaign can be accessed [here](#).

On October 9th, the **Wastewater Best Practices Work Group** (WWBP) met at the City of Dearborn Administrative Center. The meeting began with a joint presentation from Tim Hawkins, City of Dearborn, and Brandon Wong from Hyfi, about a pilot project they are collaborating on related to real-time stormwater monitoring technology in Dearborn. This presentation was a follow-up from a presentation Hyfi gave in 2023 when the project was first launched and focused on how this technology has aided emergency response in the city during flood events. Next, Dan Gold of GLWA announced changes to the orthophosphate dosage that GLWA will add to drinking water based on the results of a multi-year study in advance of changes in state and federal lead and copper regulations. Operators were asked to look for any changes in wastewater chemistry at their respective wastewater treatment facilities related to this new plan.



Members tour the interior of the City of Dearborn's Military Road CSO Facility

PLANNING SERVICES (continued)

Then, Steven Eick of the Michigan Department of Environment, Great Lakes and Energy EGLE spoke about the ongoing administrative processes related to Retention Treatment Basin classification licensing and Part 41 rules. The meeting concluded with a tour of the City of Dearborn's Military Road Combined Sewer Overflow facility. This was the final convening of this group for 2024. The next round of WWBP meetings will be scheduled to begin in early 2025.



Members viewing a presentation on real-time storm response technology at City of Dearborn

The **Watershed Hub Work Group** held a hybrid meeting on October 16th with members attending both remotely and in-person at the Wayne State University campus. The first item of business was to discuss if the implementation of the Regional Water Quality Monitoring Program, being implemented in partnership with the United States Geological Survey's office, may need to change as the Great Lakes Restoration Initiative has ceased to fund monitoring activities at several sites overlapping with the program. Next, the group moved on to discussing the close-out of the 2024 season for E. coli grab sampling, lessons learned, and plans for publishing a second annual water quality monitoring report in the spring of 2025. The final topic on the agenda was anticipating EGLE's forthcoming General Collection System Permit and how this aligns with the current regime of sampling activities being carried out at the county level, as well as definitions of waters of the state, and requirements to sample all (as opposed to high priority) outfalls. The final meeting of the Watershed Hub for 2024 will take place remotely on December 4th.

The annual **Charges Rollout #1** meeting for Fiscal Year 2026 was held virtually on October 17th. The meeting began with a presentation from GLWA's Charges Outreach and Modeling Manager, Matt Lane, who sought to provide easy-to-understand context around how GLWA's Capital Improvement Plan (CIP) related to the Charges methodology. This is a new feature of Charges Rollout meetings beginning this year that will continue with new installments to bring context to each central topic through the next three scheduled FY26 rollout meetings. Next, GLWA's Dima El-Gamal presented on the newly released draft CIP for Fiscal Year 2026-2030. The 5-year estimate for water and wastewater capital projects is \$1,059,043 billion, and \$1,245,889 billion, respectively. Next, Chris Nastally and Tim Kuhns of GLWA gave presentations highlighting key upcoming wastewater and water CIP projects. The meeting concluded with closing remarks from GLWA's Chief Financial Officer/Treasurer, Nickie Bateson, and an update on GLWA's corrosion control plan implementation from GLWA's Chief Planning Officer, Jody Caldwell. Charges Rollout #2 is scheduled for November 12th via Zoom and will focus on Units of Service.

PLANNING SERVICES (continued)

On October 18th GLWA convened with Members at the Department of Natural Resources Outdoor Adventure Center in Detroit for presentations from GLWA's Wastewater Chief



System-Wide Flood Response Update

Operations Officer, Navid Mehram, and his team on **System-Wide Flood Response**. Specifically, this was a progress report on the implementation of 33 total recommendations from AECOM's post-flood analysis report from the 2021 flood events. The meeting began with Navid providing a broad status overview, including GLWA has completed 18 recommendations, and is in progress with another 13, and has not begun work on the remaining two. Much of this flood response work will continue from this point through GLWA's partnership with the United States Army Corps of Engineers on the regional flood study. Next,

GLWA's Paul Ransom presented on improvements and plans for capital projects including a new sanitary pump station at the Conner Creek and Freud facilities. Paul was followed by GLWA's David McCord who introduced his growing wastewater conveyance team members, and described their responsibilities for maintaining conveyance infrastructure, essentially all GLWA wastewater assets that are "outside the fence" of facilities. The final presentation was delivered by GLWA's Jason Edberg, where he spoke to ongoing conveyance system projects, including valve remote gates, outfall improvements, and in-system storage devices being implemented or maintained throughout the system. This group will meet again in approximately one year for a broad update, with smaller updates to be delivered through GLWA's Wastewater Analytics Task Force and One Water Partnership meetings.

Water Analytics, Planning & Metering (WAPM)

The Water Analytics, Planning, and Metering (WAPM) Group has been working with the Water Model Contract team to create a tool in the Wholesale Automated Meter Reading Portal that will allow Member Partners to request a review of exceedances and occurrences of flow exceeding 90 percent of their contractual limits. This will allow the Water Model Contract team to excuse maximum day or peak hour exceedances and occurrences exceeding 90 percent caused by main breaks and fires before the next contract negotiation meetings. The tool was presented at the October meeting of the Analytical Work Group.

The WAPM Group continues its progress working on wholesale water meter pit rehabilitation and meter replacement program. The scope of work includes construction work at 58-meter pits with metering and/or meter pit condition concerns with a scheduled target completion of October 2028. Last month, coordination meetings were held with Clinton Township, the City of Ferndale, the City of Wixom, and Shelby Township. The planned work has been completed at three of the meter pit locations and work is underway at another four locations. Along with the meter upgrades carried out under the aforementioned contract, the group also self-performed meter upgrades at the City of Allen Park (AP-11) and the City of Hamtramck (HK-02).

PLANNING SERVICES (continued)

The WAPM Group continues its progress working on the sewer meter upgrade/replacement program. Last month, the Accusonic meter at system meter location DT-S-12 was upgraded. This is the final flow meter location on the Detroit River Interceptor before the flow reaches the Water Resource Recovery Facility (WRRF). This meter serves Detroit-Plus Members and measures approximately 24% of the flow that is treated at the WRRF. The new meter has been installed with cellular service for remote support and data transmission. This will allow meter data, including volume, level, and other parameters to be accessed via a cloud-based meter data management system.

Wastewater Analytics, Planning & Metering (WwAPM)

On October 30th, the Wastewater Analytics, Planning, and Metering Group executed the Sewer Metering Analysis and Support Services contract with Wade Trim. This consultant contract produces the annual flow balance report after providing data quality assurance and quality control and flow balance computations. Although the contract was just executed, the fiscal year 2024 flow balance is well underway through collaboration with the Water Analytics, Planning, and Metering Group by compiling the necessary data and performing initial calculations.

The WwAPM group continues to assist in the development of the scope of work for the United States Army Corps of Engineers (USACE) Southeast Michigan Flood Study by attending a USACE internal planning charrette. The purpose of this charrette was to debrief the attendees on the information received from the three-day design charrette attended by regional stakeholders.

Additionally, WwAPM assisted the System Resiliency group in advertising and executing a pre-proposal meeting for the Southeast Michigan Flood and Storm Damage Reduction General Investigation Study, a professional services contract to support the USACE project.

In support of the USACE project and future modeling activities, 90 physical attributes in the Storm Water Management Model were reviewed to be in conformance with as-builts, the 36 precipitation gauges to 5,186 subcatchment relationships were evaluated and verified, and comparisons between the groundwater module and the “RTK” hydrograph method were conducted to verify conformance. The outcome of these efforts will be presented at a future Wastewater Analytics Task Force (WATF) meeting. The outcome of these efforts will be presented at a future Wastewater Analytics Task Force meeting.

WASTEWATER OPERATING SERVICES

Wastewater Operations

The Water Resource Recovery Facility (WRRF) operations complied with the Water Quality Standards for the month of November.

The total phosphorus for monitoring point 049A (Primary Effluent) monthly average was 1.7 mg/l, in excess of the limit of 1.5 mg/l. Wet-weather event on October 1 - 2, 2024, occurred after a 6-week period of dry weather and was fairly short. High results are typical for events under these circumstances, and the results for an event on October 12 - 14, 2024, were not low enough to bring the monthly average back below the limit. However, the secondary effluent total phosphorus permit limit was met in October 2024.

Maintenance

The WRRF Maintenance Team focused a great amount of effort on ensuring all members of the team were trained and ready for the November launch of NEXGEN. This effort consisted of ensuring technicians took the proper training, setting up office hours for support and questions, and setting up a day with the Team Leaders and Planners prior to the official launch to ensure work was scheduled for their teams on the launch date. These efforts led to a very smooth initial launch of NEXGEN at the WRRF. Now, efforts are focused on continuing to increase the team's competencies by working with the NEXGEN software.



*Vacuum pump A motor is being reinstalled under Team Leader **Richard Muntz's** guidance - shown in the left photo and the fully reassembled vacuum pump A is shown in the right photo.*

The Incineration Team completed a repair to the fiberglass housing of vacuum pump A that is used to create vacuum for the operation of ash silo 4. The fiberglass housing was cracked and was leaking oil. This repair requires a substantial disassembly of the pump/motor unit and a rebalancing of the unit after reassembly. With the return to service of vacuum pump A, the Wastewater Operations Team now has complete design flexibility and redundancy of ash silos 4 and 5, using any of vacuum pumps A, B, or C.

The Primary Team performed a replacement of the 11-15 scum hopper grinder. The scum hopper grinders are upstream of the scum pumps and grind the scum collected from the circular clarifiers to prevent clogging of the downstream piping and damage to the scum pumps.

WASTEWATER OPERATING SERVICES (continued)

The old and worn scum hopper grinder was replaced with an updated model to be more efficient and last longer. The Primary Team is constantly looking for data-driven efforts to improve the longevity and reliability of the equipment in their area.



The old scum hopper grinder is shown in the left photo and the new model installed is shown in the right photo.

Laboratory

Five GLWA Team Member Chemists (pictured below) completed the Wastewater D License exam in November 2024.



WRRF Laboratory Chemists at the D-license exam. Pictured left to right: Elliott Boinais, Elijah Bouldin, Hainite Tuitupou, Tosin Olojo, Niyla Reid, Bailey Sorrentino.

The Wastewater Microbiology group is evaluating upgrades to the microscopes and software. On site vendor demonstrations using slides prepared by the team will help evaluate how technology may help to improve results and save time. The group has recently added monitoring for phosphorus accumulating organisms. This will provide a baseline ahead of a large CIP project upgrading the aeration decks and assist in troubleshooting and assessment of phosphorus removal capabilities through the secondary system.

The Operations and Laboratory Teams continue their efforts to cross train team members and aid their progression. Currently, Plant Technician, *Austin Harrell*, is supporting the Laboratory Team in various functions, including operations of the ferric chloride process area.

WASTEWATER OPERATING SERVICES (continued)

Operational Technology (OT)/Process Automation & Control Systems (PACS) Team

To provide continuity of monitoring and control capabilities during construction activities related to the ongoing WRRF Pump Station 1 Improvement Project, OT/PACS team members concluded relocation and reconfiguration of several workstations from the Pump Station 1 control room to the Emergency Control Center. The OT/PACS team members set up the workstations, network infrastructure and cabling to support remote monitoring and control of the Pump Station 1 equipment for the duration of the improvement project.



Relocated workstations in the ECC

The OT/PACS team successfully conducted the first phase of hardware factory acceptance testing for the Leib Combined Sewer Overflow (CSO) facility remote sites. The Leib CSO facility will undergo an upgrade featuring significant revisions to the instrumentation and controls system. New remote cabinets (to be installed at the Harbortown, Bellevue, and Jefferson sites) were inspected and tested by OT/PACS team members at the construction facility in Novi, Michigan.

A follow-up round of testing will occur in late November 2024, to verify control functionality and network communication prior to delivery to the installation sites.

Industrial Waste Control

Nineteen users of the three Perfluorooctane Sulfonate and Perfluorooctanoic acid (PFOS/PFOA) Minimization Program continue to have one or more discharges that would exceed the proposed local limit for PFOS. A letter was sent to these users requesting plans for complying with the proposed limit.

The fifth annual report was submitted to the Michigan Department of Environment, Great Lakes, and Energy on May 1, 2024. The November mid-year report is in progress.

Under the Per- and polyfluoroalkyl substances Compound Study Community Grant, in response to United States Environmental Protection Agency Region 4 request, a revised Qualified Assurance Project Plan has been submitted for review and has been conditionally approved. The grant application form remains in progress.

WASTEWATER OPERATING SERVICES (continued)

Engineering And Construction

Wastewater Projects in Design or Miscellaneous

CIP Design:

CIP 216008, Contract No. 2000970 – Screened Final Effluent (SFE) Pump Station Rehabilitation

This is a progressive design-build project to replace the SFE building and equipment. The new SFE system will give the WRRF redundancy for sources of utility water, improving resilience of the facility. GLWA and the Contractor have negotiated the cost and scope of the second phase, which includes completing the 60% design and constructing the new equipment and building. The contract amendment for the second phase will be presented at the November GLWA Board of Directors meeting.

CIP 222001, Contract No. 2304897 – Northwest Interceptor (NWI) to Oakwood CSO Sewer

The notice to proceed and preconstruction meeting were issued and held October 14, 2024. Easement acquisition is ongoing. Public Outreach with District 6 businesses, residents, and governments is ongoing for both the Right-of-Way vacation and the upcoming construction continues. Construction is expected to be ready to begin by the end of November.

CIP 260201, Contract CS-168 – Rehabilitation of Conveyance System Interceptors and Trunk Sewers

The one-year warranty inspections of the rehabilitation of Outfall B-39 and the rehabilitation of NWI are the two tasks now remaining under CS-168. NWI reached final completion, and the punch list and project closeout are ongoing.

CIP 260210 - 2201041 – Ashland-Linwood-Lonyo-2nd Avenue-Shiawassee

The design of the proposed work on these five sewer sections is approaching 100%. The future construction projects will be broken into two separate projects. The Lonyo sewer is its own project with an Engineers Estimated Opinion of Project Cost of \$26M. The Lonyo sewer has an estimated three years of work to complete with two permanent access hatches and debris removal being planned from Patton Park starting in 2026. The other four are an estimated \$12M in work and more in line with other sewer rehabilitation project scopes starting in 2027. Public Outreach has begun for all five projects.

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

This design-build project will replace the end-of-life control system with a new Ovation control system at three CSO facilities. The witnessed Hardware Factory Acceptance Test for Leib and Leib's remote sites is ongoing and will continue through the first week of November. Construction activities at St. Aubin are starting to ramp up now that control panels and instruments arrived on site during the final week of October 2024.

WASTEWATER OPERATING SERVICES (continued)

CIP 260701, Contract 1803709 – Conveyance System Infrastructure Improvements

The remaining scope of this engineering contract includes construction assistance from two separate construction contracts. CON-2102859 involves modifications to the outfall regulators and installation of new backwater gates and is expected to reach substantial completion in December 2025. CON-2201142 involves the repair/replacement of critical mechanical components in the in-system storage devices and repairs to the inflatable dams. Substantial completion is expected in March or April 2025.

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

This project will renovate the third floor NAB to maximize and optimize the space utilization of the building as part of the Wastewater Master Plan. The consultant has submitted 100% drawings, and a review workshop will occur in November 2024.

CIP 261001, Contracts No. 2301547, 2201974, and 2302068 – Rehabilitation of Secondary Clarifiers

This project is to overhaul the secondary clarifiers. The required improvements will address the process mechanical, structural, heating ventilation and air conditioning, electrical, and instrumentation & control systems, as well as site improvements. The scope of contract 2301547 was reduced from the design of six clarifiers to the design of two clarifiers and assessment of six clarifiers. Hazen was selected as the designer and is updating their proposal to reflect the reduced scope. Once the design is completed, the project will include a construction contract for rehabilitation of the two clarifiers. Contracts 2201974 and 2302068 with Contractor Arcadis have completed designs for a smaller set of critical repairs. The critical repair scopes will be combined into a single construction scope that is expected to go to bid in early 2025.

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

The designer Wade Trim has submitted 60% design documents for this project and is under review by GLWA.

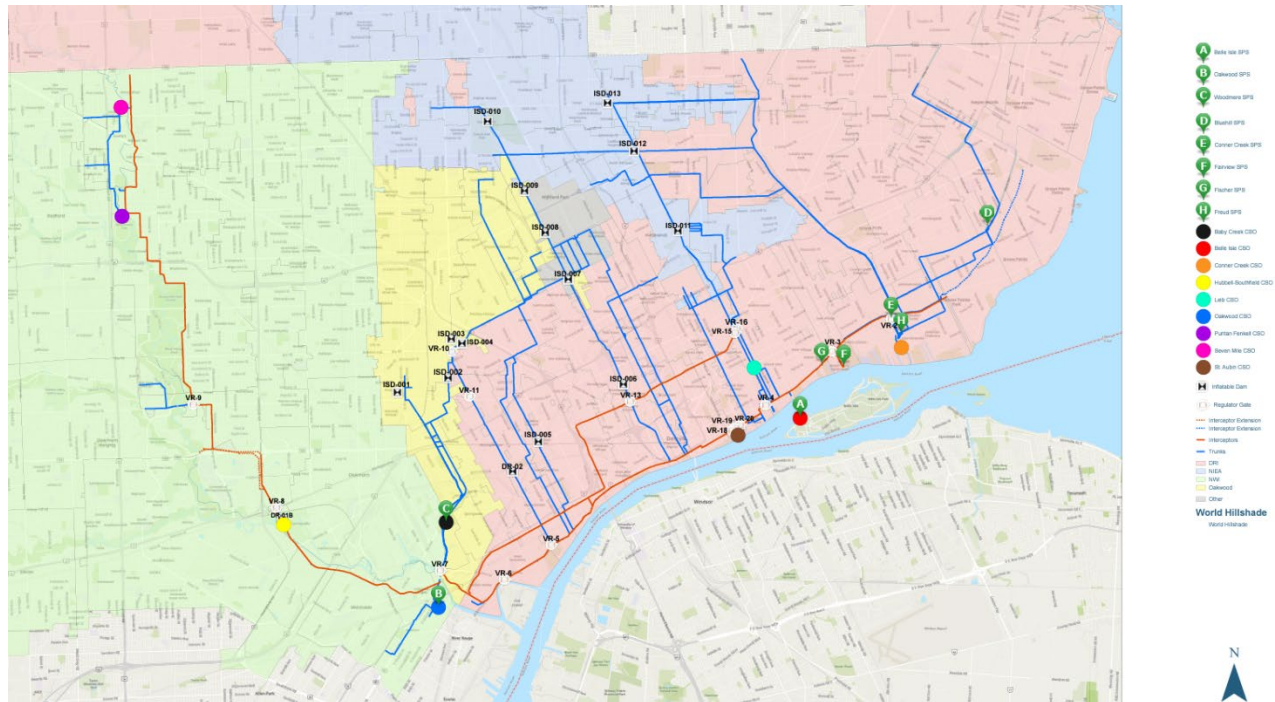
Combined Sewer Overflow (CSO) Control Program

CSO Conveyance

CSO Conveyance has been training on performing routing maintenance inspections for our remote sites; Valve Remotes and In-System Storage.

WASTEWATER OPERATING SERVICES (continued)

These control valves and storage dams are used to control and divert flow during wet and dry weather for either prevention of overwhelming downstream assets (the WRRF, Outfalls, etc.) or maintenance of large diameter interceptors. Maps have been created for new CSO team members to provide a visual aid during their site visits.



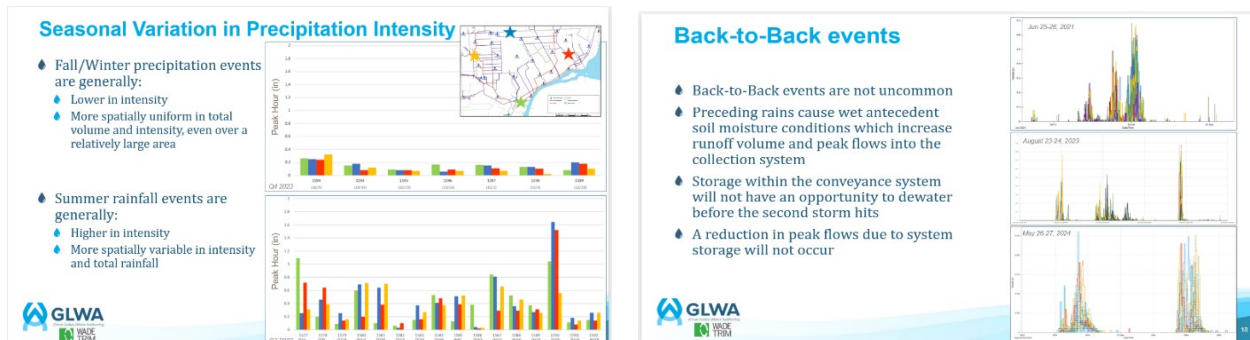
There are no significant updates to our priority level sensor program. Our vendor is working on demolition and permitting applications for three priority sites. The additional level sensors add to the resiliency of our conveyance system. Many of the sites will have two sensors, one for level and one for pressure. When the sewer water reaches the level sensor, the sensor will max out in reading. The pressure sensor will begin to read above the sensor. This adds to the reliability of remote monitoring of our system during storms.

The fifth Wastewater Conveyance workshop was conducted in October 2024. The primary topics discussed included:

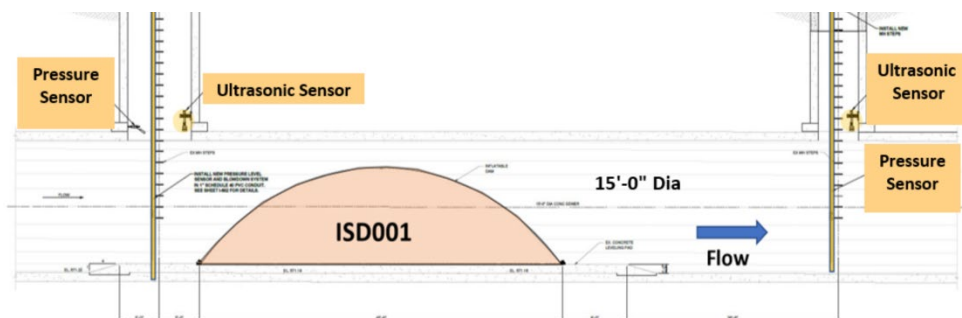
- Historical and Design Storm Events
- Climate Resiliency
- Rising Detroit River Levels
- GLWA Conveyance System Model, its Uses and Capabilities
- GLWA Collaborative Projects with Member Partners and Other Agencies

WASTEWATER OPERATING SERVICES (continued)

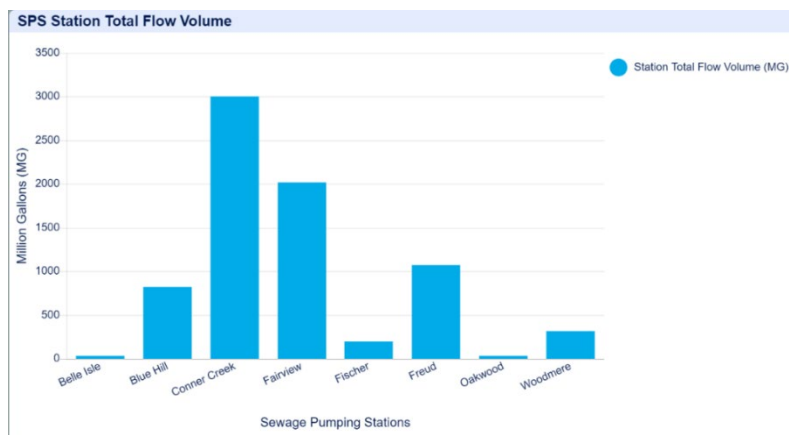
The workshop explained the differences in rainfall intensity throughout the seasons as well as how back-to-back rain events impacts our system.



A training session for an additional conveyance monitoring tool also took place in October 2024. This session trained CSO team members on remote monitoring for the In-System Storage Devices (ISD), Valve Remotes, Discharge Monitoring Report and Eastside Hydraulic Viewer. Team members can view the status of the ISD, the flow in the interceptor, and the level and pressure sensors. An example of one of our viewers is displayed below.



There was minimal discharge and capture during October 2024 from the CSO facilities. There was a total of 81 million gallons of discharge overflow from Conner Creek and Hubbell-Southfield CSO combined. The majority of our pumping from the pump stations was sanitary flow.



WASTEWATER OPERATING SERVICES (continued)

The Wastewater Conveyance CSO team would like to recognize the Manager of Wastewater Conveyance, *Shon Jones*, and Wastewater Engineer, *Jonathan Arbaugh*. There was an electrical conduit for our backwater gates hit by another utility while performing some upgrades to their system. Shon Jones came in early, shortening his vacation, to lead his team, maintenance team members in addressing the situation, thus rectifying the problem. Jonathan Arbaugh has been combing through almost 20 years of files at Conner Creek CSO, sorting, re-organizing and preparing outdated files for shredding.

Congratulations to Management Professional, *Rainessa Williams-Fox* and CSO Director, *David McCord* for completing the Michigan Infrastructure Council's Asset Management Champions program.

WATER OPERATIONS AND FIELD SERVICES

Water Operations

Northeast Water Treatment Plant

The Northeast Plant Isolation of Reservoir #1

The Northeast Water Treatment Plant team is expected to begin the process of isolating underground reservoir #1 this week. The reservoir is being taken out of service to perform an interior inspection, necessary repairs, and improvements. This was an important meeting as this process requires the collaboration of all the teams at the Northeast Water Treatment Plant. To ensure the success and safety of this process, the Northeast Water Treatment Plant's leadership team met for an in-depth meeting to review the standard operating procedures to ensure the safety of everyone involved, minimize the chance for flooding, and prevent an interruption in producing water of unquestionable quality to our customers.



Pictured left to right: Caine Hornok, Torino Moore, Pawan Kapila, Kristofferson Fagan, Annie Philip, Davidson Okpaleke, and Govind Patel

WATER OPERATIONS AND FIELD SERVICES (continued)

Water Transmission

Maintenance & Repair Team

The Maintenance and Repair team worked on watermain repairs, confirmation of valve positions and/or leaks, and special projects this week.

The crew worked on confirming the valve positions and/or repairing leaks on valves, investigate transmission main leaks and checking structures throughout the transmission main system:

1. The Maintenance and Repair crew reopened the 48-inch valve for West Service Center, restoring flow to the new reservoirs.
2. Crews worked on the shutdown of a 24-inch watermain; this isolation was required to repair a hydrant gate leak. The shutdown location is from Gratiot and Seven Mile Road to Gratiot and Eastburn Road.
3. Maintenance and Repair was notified that the City of Detroit has been experiencing a water quality issue near Telegraph Road and McNichols Road. Maintenance and Repair coordinated with Water Quality and tested the 36-inch transmission mains confirming that chlorine levels met GLWA requirements.
Crews began checking divider valve positions eventually locating a 16-inch valve in the closed position, which was reopened and resolved the City of Detroit water quality concern.
4. Crew successfully performed a trial shut down of Meter Pit CT-02 at Union Lake Road and Metro Parkway.
5. Crew checked valves on the 48-inch watermain on Nevada Avenue to address a leaking access hatch at Nevada Avenue and Fenelon Road, within the City of Detroit. The crews successfully isolated the watermain and repaired the access hatch.
6. Crews continued to perform hydrant winterization at the Water Resource Recovery Facility.
7. Coordinating with the City of Detroit, crews assisted in monitoring water pressures on the 36-inch and 12-inch watermains located at St. Jean and Shoemaker Street. The crew witnessed a loss of pressure on the 12-inch watermain, this loss of pressure is most likely due to a closed valve that will require further investigation to locate and open.
8. Crews continued clearing and grubbing at various locations along the 120-inch watermain from Lake Huron Water Treatment Plant to Imlay Pumping Station.

WATER OPERATIONS AND FIELD SERVICES (continued)



Gratiot Road and Seven Mile Road, 8-inch gate leak



Leaking access hatch at Nevada Avenue and Fenelon Street



Clearing and grubbing operations along the 120-inch watermain

Mechanical Maintenance

The Mechanical Maintenance crews worked on monthly, quarterly, semi-annual, and annual preventative maintenance and corrective maintenance throughout the system this week.

The crews worked on the following corrective maintenance projects:

1. Franklin Station - Flushing of reservoir sample lines
2. Freud Station - Install Storm Pump #1 coupling and shaft
3. Haggerty Station - Flush reservoir sample lines
4. Schoolcraft Station - Flush reservoir sample lines
5. West Service Station - Repack control valve #5
6. Northwest Pumping Station – Isolate control valve #3

WATER OPERATIONS AND FIELD SERVICES (continued)

The crews completed preventative maintenance at the following booster stations:

1. Booster Stations: Adams, Eastside, Franklin, Haggerty, Imlay, Joy, Newburgh, North Service, Northwest, Orion, Rochester, Schoolcraft, West Chicago, West Service, Wick, Ypsilanti
2. Collection Stations: Bluehill, Conner, Freud

The crews completed maintenance at the following remote sites:

1. In-System Storage Devices: 3-7
2. Backwater Gates: 19-50



Storm pump at Conners Station (left) and yard construction at Joy Road Station (right)



Preventative maintenance at valve remote #15

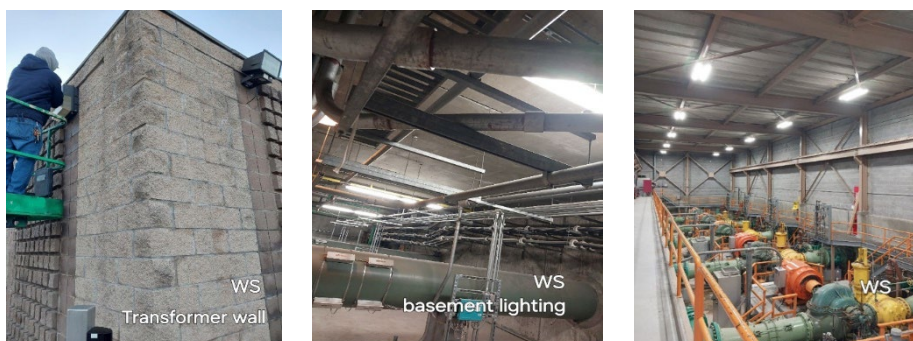


Justin Woods at the Northwest Pumping Station attempting to isolate control valve #3

WATER OPERATIONS AND FIELD SERVICES (continued)

Facility Operations

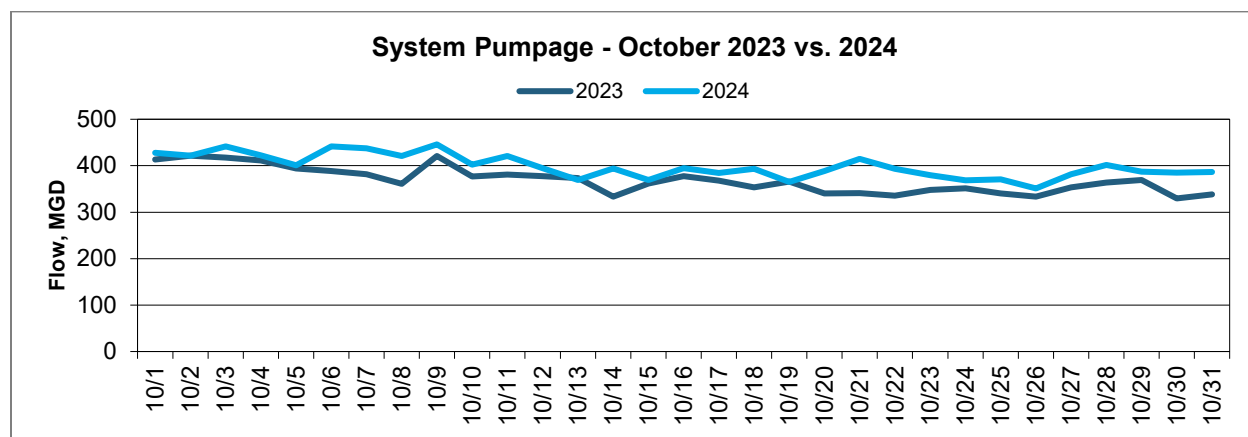
Facility Operations Electrician team, Thomas Medici and Jose Nunez, continued to address safety lighting and exiting concerns along with replacing light fixtures with high-efficiency LEDs. This week they wrapped up the re-fixturing at West Service Center. Interior and exterior lighting fixtures were being replaced. Lifts, ladders and dozens of light fixtures were used. They are moving next to Franklin Station and North Service Center where dozens of light fixtures are in need of attention.



West Service Station new light fixtures installed

Systems Control Center (SCC)

There was a 7.6% increase in the pumpage for October 2024 compared to October 2023



Research, Innovation & Transformation

Research – Update regarding the wastewater-based epidemiology project

The GLWA Research and Innovation team has continued to sponsor and participate in Michigan State University's groundbreaking research in wastewater-based epidemiology.

WATER OPERATIONS AND FIELD SERVICES (continued)

Originating in efforts to track polio, the Michigan State University research team then rapidly pivoted to monitoring, tracking, and predicting the occurrence and spread of SARS COVID during the COVID pandemic. Since then, the research has been significantly refined and expanded towards tracking a wide variety of infectious diseases within southeast Michigan. Research meetings are held every other week to discuss the latest research findings. These meetings have included senior public health scientists and epidemiologists from: Macomb, Oakland, and Wayne Counties, Michigan; Hamilton County, Ohio; and the cities of Detroit and Cincinnati. On occasion, guests have included both local and state public health leadership from other counties in Michigan and Ohio, the Province of Ontario, and the City of Windsor, Ontario, Canada. Also contributing to this coalition are wastewater industry leaders from GLWA and Cincinnati Metropolitan Sewer District, the Center for Disease Control, and other consulting firms such as Smith and Associates, OHM Advisors, and Limnotech. Academic partners have included applied scientists from Michigan State University, University of Michigan, Ohio State University, Wayne State University, and the University of Windsor. These virtual meetings typically include between one and two dozen participants; despite the size, they are inclusive, collaborative, and productive.

The science has advanced to the point where wastewater-based epidemiology data has been accepted by public health scientists as a useful new and emerging technology in their arsenal of tools to help protect public health.

Current research efforts focus on broadening the existing analytical pipeline to include additional known diseases, as well as to develop the tools and techniques to provide early warning of unknown new or evolving diseases.

Results from the research effort had been published in a variety of publications and are listed here:

1. B Miyani, X Fonoll, J Norton, A Mehrotra, I Xagorarakis. 2020. [*SARS-CoV-2 in Detroit wastewater*](#). Journal of Environmental Engineering 146 (11), 06020004
2. Norton J, Gosine A, Busch A, Almansa XF, Mehrotra A, Sheets J, Miyani B, Zhao L, Xagorarakis I. 2022. *Development of a Wastewater Surveillance Program to Protect Public Health in Southeastern Michigan*. In: Utility Management Conference 2022 2022 Feb 23. Water Environment Federation.
3. Zhao L, Zou Y, Li Y, Miyani B, Spooner M, Gentry Z, Jacobi S, David RE, Withington S, McFarlane S, Faust R, Norton J, I Xagorarakis. 2022. *Five-week warning of COVID-19 peaks prior to the Omicron surge in Detroit, Michigan using wastewater surveillance*. Science of The Total Environment. 2022 Oct 20;844:157040.
Li Y, Miyani B, Zhao L, Spooner M, Gentry Z, Zou Y, Rhodes G, Li H, Kaye A, Norton J, Xagorarakis I. 2022. [*Surveillance of SARS-CoV-2 in nine neighborhood sewersheds in Detroit Tri-County area, United States: Assessing per capita SARS-CoV-2 estimations and COVID-19 incidence*](#). Science of The Total Environment. 2022 Dec 10;851:158350.

WATER OPERATIONS AND FIELD SERVICES (continued)

4. Zhao L, Zou Y, David RE, Withington S, McFarlane S, Faust RA, Norton J, Xagorarakis I. 2023. *Simple methods for early warnings of COVID-19 surges: Lessons learned from 21 months of wastewater and clinical data collection in Detroit, Michigan, United States*. Science of The Total Environment. 2023 Mar 15;864:161152.
5. Gentry Z, Zhao L, Faust RA, David RE, Norton J, Xagorarakis I. 2023. *Wastewater surveillance beyond COVID-19: a ranking system for communicable disease testing in the tri-county Detroit area, Michigan, USA*. Frontiers in Public Health. 2023 Jun 2;11:1178515.
6. Li, Y., B Miyani, J Norton, R Faust, I Xagorarakis. 2023. *Bioinformatics based Screening of Wastewater Samples may Provide Information for Selecting Targeted Wastewater Surveillance of Potentially Emerging Viral Disease*. SETAC North America 44th Annual Meeting, 2023
7. Zhao, L., Q Geng, R Corchis-Scott, RM McKay, J Norton. I Xagorarakis. 2023. Targeting a free viral fraction enhances the early alert potential of wastewater surveillance for SARS-CoV-2: a methods comparison spanning the transition between delta and omicron variants in a large urban center. Frontiers in Public Health, 2023
8. Corchis-Scott, Ryland, Beach, Mackenzie, Geng, Qiudi, Podadera, Ana, Corchis-Scott, Owen, Norton, John, Busch, Andrea, Faust, Russell, McFarlane, Stacey, Withington, Scott, Irwin, Bridget, Aloosh, Mehdi, Ng, Kenneth, McKay, Robert. (2024). *Wastewater Surveillance to Confirm Differences in Influenza A Infection between Michigan, USA, and Ontario, Canada, September 2022-March 2023*. Emerging Infectious Diseases. 30. 1580-1588. 10.3201/eid3008.240225.
9. Zhao, L., RA Faust, RE David, J Norton, I Xagorarakis. 2024. *Tracking the Time Lag between SARS-CoV-2 Wastewater Concentrations and Three COVID-19 Clinical Metrics: A 21-Month Case Study in the Tricounty Detroit Area, Michigan*. Journal of Environmental Engineering, 2024.

Engineering

Water Engineering Active CIP Project Status

CIP# 122013 (Contract No. 2004456) 14 Mile Transmission Main Loop- Phase II

Project Manager: Pete Fromm

This construction project is at 100% complete. The new 54-inch transmission main has been installed and the connections to the 8 Mile transmission main and the connections to the Haggerty Booster Station have been completed. The new 54-inch transmission main is being pressure tested, disinfected, and bacteriological tested. Final punch list items for surface restoration (roadway) are being completed on Meadowbrook Road from 12 Mile Road to 13 Mile Road in the City of Novi. Final testing of the control valve station at the Haggerty Booster Station is planned for December 2024.

WATER OPERATIONS AND FIELD SERVICES (continued)

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-inch flow meter on the south high lift header with an 84-inch butterfly valve for isolation, 16-inch 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-inch butterfly valve on the north high lift header. Construction for the south header improvements will be completed by the end of 2024. Remaining construction activities that include installation of the new high lift pumps will be completed by the end of 2026.

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 started in September 2024 and are forecast to be completed in December 2024. The project is on track for overall substantial completion on July 13, 2026, and final completion by March 18, 2027.

CIP# 122004 (Contract No. 2300600) 96-Inch 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-inch diameter welded steel pipe along Dequindre Road in Rochester Hills which is divided between North Dequindre and South Dequindre segments. Currently, the contractor has installed approximately 5,900 ft. of transmission main along the south segment of the project heading to Hamlin Road. South Dequindre Road was restored in October 2024 (approximately five months ahead of schedule). Contractor has begun preparatory activities on the north segment of the project in anticipation for pipe installation to begin in November 2024. The entire project is currently on track to be completed by fall of 2025.

CIP# 122004 (Contract No. 2100998) 96-Inch Water Transmission Main Relocation Pipe Procurement

Project Manager: Corey Brecht

This contract is a material purchase with Northwest Pipe Company for the 96-inch spiral welded steel pipe. Currently, Northwest Pipe Company is fabricating and delivering Phase II pipe for the contractor involved with Contract No. 2300600. The fabrication and delivery has increased to approximately 79% complete.

WATER OPERATIONS AND FIELD SERVICES (continued)

CIP# 122004 (Contract No. 2303968) 84-inch Triple Offset Ball Valve Procurement

Project Manager: Corey Brecht

This contract is a material purchase for Phase III of CIP #122004 – 96-inch Water Transmission Main Relocation Project. The material purchase includes two 84-inch triple offset ball valves that will be provided to the Phase III contractor for installation. The lead time of these valves was between 66 - 80 weeks from start of the shop drawing process and is the primary reason why GLWA pre-purchased these valves. The vendor has received approval on the submittal and is developing a production schedule for GLWA.

CIP# 122004 (Contract No. 1900741) Professional Engineering Services for the Design and Construction of the 96-inch Water Transmission Main Relocation

Project Manager: Corey Brecht

This contract provides engineering and construction assistance services for the entire 96-inch Water Transmission Main Relocation Project (Phase 1-3). The consultant has also completed the draft for the Design Build Request for Proposal package for Phase 3 that is scheduled to be advertised in fall 2024.

CIP# 122004 (Req No. 2401015) Design Build of 96-Inch Water Transmission Main Relocation-Phase III

Project Manager: Corey Brecht

This Request for Proposal is scheduled to be advertised in December 2024 and is currently being reviewed by Procurement. Draft Solicitation cover has been prepared and Office of the General Counsel is reviewing the documents. The scope of this Request for Proposal includes final design and construction of the pipeline alignment, connections, line stop, temporary booster pump station, isolation valves, pipeline appurtenances, and abandonment of the relocated section of existing 96-inch water transmission main.

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-inch diameter prestressed concrete cylinder pipe parallel to the existing 42-inch 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 all pavement restoration has been completed along with punch list items. The Final Pay Application and Closeout Request are pending. Contractor is compiling the required unconditional waivers from subcontractors and suppliers.

CIP# 111001 (Contract No. 1803769) Lake Huron High Lift, Low Lift, and Wash Water Pumping and Switchgear Improvements

Project Manager: Eric Kramp

This project provides engineering services to address long-standing issues with the switchgear, low lift, high lift, and corrosion control at the Lake Huron Water Treatment Plant.

WATER OPERATIONS AND FIELD SERVICES (continued)

For the updates to the switchgear and low lift pumping improvements, the consultant has provided a 60% Design Package which has been reviewed and a 90% design package will be forthcoming. The Basis of Design Report for the High Lift Pump Station has been reviewed and returned, and the 30% Design Package was received mid-July 2024. The Basis of Design Report for phosphoric acid improvements have been received and incorporated into the High Lift Pump Station Project. The high lift pumping and phosphoric acid improvements projects may be combined and modified to create cost overall savings on this CIP project

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 60% complete with Phase I. GLWA has reviewed and commented on the 60% Design Deliverable package and has returned it to the Contractor. The Contractor has provided the 90% Design Documents which are currently under review by GLWA. GLWA and the Contractor have begun discussions on the Phase 2 Cost and Pricing Agreement.

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 a mix of hydraulic and mechanical flocculation underway.

A pure engineered hydraulic flocculation solution could not be proven through piloting. Once sufficient data is collected, GLWA will meet with the Michigan Department of Environment, Great Lakes, and Energy (EGLE) to confirm that the preferred technological solution will be acceptable to the jurisdictional authority. The engineer is developing a presentation for the EGLE on our recommended solution.

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 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 resident project representation services. The project remains on budget and is ahead of the contract final completion date of January 17, 2025.

WATER OPERATIONS AND FIELD SERVICES (continued)

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 to clean and rehabilitate 10 finished water reservoirs based on the design package provided in Contract No. CS-151A. It started in November of 2019 with punch list items getting wrapped up this winter. The project remains on budget and is ahead of the contract final completion 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 project representation services for 16 of the system finished water booster stations. Started in July 2022 with design and exterior inspections. Resident project representation 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 & #2, North Service Center #1 & #2, Water Works Park #1 & 2A/2B, Northeast #1 & #2, Michigan Avenue, Lake Huron #3. The project started in December 2023 with the first season of interior rehabilitation work at Wick Road, Eastside, and Schoolcraft completed and the reservoirs are back in service. Exterior improvements will continue throughout the summer.

Next fall, four additional reservoirs will be taken out of service for work. The last of the 16 will be completed in the 2026 - 2027 outage season with final contract completion in July 2028. The contract is on budget and time.

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 the existing facility is complete. Site civil work for new electrical duct banks and utility bridge is underway. Revised drawings for DTE required changes to the switchgear have been issued to the contractor with additional cost and schedule impacts to the contract, is to be determined.

WATER OPERATIONS AND FIELD SERVICES (continued)

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 makeup air units, exhaust fans, ductwork, natural gas piping, ventilation control panels, electrical power, ambient air monitors and associated appurtenances. Construction crews have placed and commissioned all HVAC units in the north chemical, flocculation/sedimentation, and ozone areas. In the south end of the plant, crews have erected scaffolding in the aluminum sulfate bulk storage room and the fluoride storage room. In those rooms, structural, electrical, mechanical and roofing modifications are being made to accommodate new HVAC units and ductwork. All new HVAC units are scheduled to be set by November 22, 2024, with startup and commissioning activities to follow.

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 was caused by years of ice floes 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 covering to protect the earthen dike. All contract work has been completed and all deficiencies on the punch list have been addressed. The project is now entering the closeout phase.

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

Project Manager: Tim Kuhns

Conceptual design for the project has been completed. Project will include rehabilitation of the existing station as Phase 1 of the project with Phase 2 of the project to include new reservoirs and reservoir pump house. The design phase for the replacement of line pumps and switchgear has commenced. 30% design of this project will be delivered to GLWA by the end of 2024.

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

Project Manager: Pete Bommarito

This project replaces the existing horizontal paddle wheel flocculators in the four treatment trains of the 1958 treatment plant and adds continuous turbidity monitoring of its settled water. Flocculators are currently being manufactured for delivery with installation scheduled in Basins 5 and 6 by the end of 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 complete.

WATER OPERATIONS AND FIELD SERVICES (continued)

Work within the Springwells Raw Water Tunnel has also been completed for this low demand season. The contractor, Ballard Marine Construction has successfully removed the Ballard Underwater Ring Transporter from the Springwells Tunnel and temporarily closed off the access shafts for the high demand season. The contractor will return next low demand season (October through April) to continue installation of the stainless-steel rings.

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% design phase. Project involves use of 42-inch, high-density polyethylene fit slip-line approximately three miles of vintage 1915 cast iron 48-inch piping along Jefferson between the Water Works Park Water Treatment Plant and Rivard Street just east of downtown Detroit. The Act 399 Permit is pending with the State of Michigan.

Prior to commencing construction, the City of Detroit has to complete a 16-inch set of parallel mains from Water Works Park to Rivard. Construction for this project will not commence until FY2028.

CIP# 132015 (Contract No. 1901767) Newburgh 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 complete, and design is in progress.

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

Project Manager: Vittoria Hogue

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. Project mobilized on March 4, 2024. The first basin, Basin 1B, has been completed and turned over to Southwest plant staff. Project is in a delay period, waiting on the sludge contract to be able to finish their work at Northeast Water Treatment Plant and begin work removing sludge from the remaining basins to be worked on at Southwest Water Treatment Plant. GLWA and Colasanti are in negotiations regarding a delay claim.

WATER OPERATIONS AND FIELD SERVICES (continued)

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

Project Manager: Vittoria Hogue

Phase 1 of the project is at 90% Design, Phases 2 and 3 are at 60% design. Project involves installation of looped and redundant mains in the downriver area along Inkster and Allen Roads 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. Due to limited CIP funds and the increase in estimated cost of Phase 1 of the job, the project has been descoped to design and construction oversight of Phase 1 – Inkster Road transmission main, demolition of electric avenue reservoirs, and upgrades to the Trenton meter pits. A Task Adjustment has been executed and WSP, the engineering firm, is working on finalizing the 90% design.

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

Project Manager: Vittoria Hogue

Project involved right sizing pump 3 at Imlay Pump Station to service the communities west of the station. All equipment has been installed. Upon further investigation, a discussion after the remote testing and the 30-day acceptance test was unsuccessful. It was discovered that Flint uses significantly less now than in 2019, when the project was designed. The pump as is, currently cannot supply below 10 million gallons a day (MGD), and Flint's current daily range of flows is 7 MGD – 14 MGD. Contractor is planning to perform additional vibration testing on the pumps at the low flow range to determine acceptability.

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

Project Manager: Michael Garrett

The project is nearing the end of the construction phase. Project involves new reservoir pumping facility as well as new reservoirs and improvements to various existing yard valves. Startup and training have begun. Testing of new facilities and equipment began in March 2024 in which testing was completed successfully and was turned over to Systems Control Center for operational control. Demolition of existing reservoirs has been completed and the project is now substantially complete. Currently there is a change order for time only to extend the final completion date which is scheduled for the December Board meeting.

Contract No. 2303227 Task Order Engineering Services 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 ongoing. Burn & McDonell is assigned to assist in Ovation related reviews. Work is on-going.

SYSTEM RESILIENCY

The Office of System Resiliency (OSR) creates, manages and implements initiatives that increase GLWA's capacity to prevent unplanned disruptions, and to recover and learn from them when they do occur. The office has three Directors focused on Systems, Operations, and Energy.

Energy Management

OSR Energy continued to work with Wastewater Engineering to pilot an online, real-time pump efficiency digital twin for the intermediate lift pump station. Both Intermediate Lift Pump Station and the Adams Road Booster Pump Station digital twins are now up and running. A three-day operator training was conducted at WRRF in early November.

The tool collects a variety of process information including flows, levels, energy usage, pressures, valve positions, along with manufacturer's pump curves to determine the efficiency of each pump's performance and allow for the assessment of energy efficient pump operations to reduce our overall energy usage while maintaining the same level of service for the installation. These pilot studies are being used to benchmark internal and external methods to evaluate pump and energy performance for potential inclusion at other, mission critical, GLWA installations

Knowledge Capture

OSR continues to roll out its topical videos focused on transferring knowledge to team leaders and staff. Two additional videos focusing on wet weather management have finished final production and are available on the "Resiliency" page of the One Water Connect internal web site.

The Water Explores podcast series, with members of the Water Transmission and System Control Center groups (pictured right) continues to meet on a bi-weekly basis to further promote discussions and knowledge transfer. These podcasts are also available to all GLWA staff through the "Resiliency" page of One Water Connect. The podcasts only take one hour to record and are edited to about a 20 to 30 minute segment focused on various topics.



Flood Resiliency

GLWA and the US Army Corps of Engineers (USACE) continued follow up from the three-day planning charrette that kicked off the Southeast Michigan Flood Resiliency General Investigation study.

SYSTEM RESILIENCY (continued)

The public signing ceremony was conducted September 30th at the Conner Creek CSO Control Facility. Planning, Public Affairs, and Member Outreach are continuing to support Resiliency and USACE. There will be a series of workshops to be conducted in Wayne (including Detroit), Oakland, and Macomb counties next month to solicit input from all interested parties to participate in this important study. The venues are being organized and will be focused on technical staff as well as the public at large.

The USACE vertical planning team approved workplan, is tentatively to be approved in early January 2025. In addition, GLWA has posted a request for proposal for engineering support to provide in-kind contributions for this study. Please check out <https://glwater.bonfirehub.com> reference number 0000348 for more information.

Finally, a project specific “hot line” has been set up and will be published on the USACE project website soon. The phone number is (313) 967-1500.

Resiliency Summit

OSR continued to collaborate with several University of Michigan (U of M) offices to design and deliver an educational summit on power and water resiliency in the utility space. The effort is solidifying with participation from DTE, Consumers Power, and ITC. The tentative dates are February 13th and 14th, 2025, on U of M's Ann Arbor Campus. Stay tuned for more details as we endeavor to improve resiliency at the power-water nexus from applied and academic perspectives.

INFORMATION TECHNOLOGY

IT Security

In the past month, the IT Security team has proactively blocked or thwarted 39,010 spam messages, 6,166 spoofed messages and 96 viruses. Additionally, 6,683 phishing attempts have been caught and 21,346 malware attempts have been blocked.

IT Business Productivity Systems

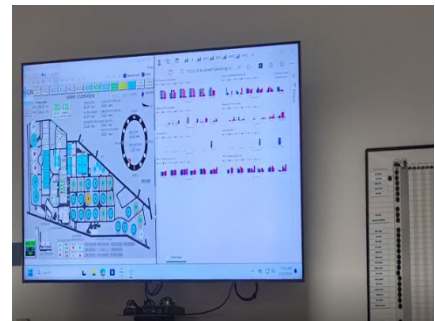
The IT Business Productivity Team supported the Procurement Group with the development of procurement dashboards in Workday for GLWA team member use. These dashboards allow enriched access to procurement-related data in Workday related to requisitions, change requests, contracts, and purchase orders. They provide increased visibility into the status of procurement requests as well as enhanced tracking of existing contracts and purchase orders. In addition, the team supported the cutover of Workday integrations from Oracle Work and Asset Management (WAM) to NEXGEN related to NEXGEN's go-live.

INFORMATION TECHNOLOGY (continued)

IT Customer Delivery

The IT Customer Service Delivery Team in collaboration with the IT Infrastructure team, IT Business Productivity Systems team, and the Office of the Chief Operating Officer - Wastewater Operating Services teams completed the installation of a reporting tool that displays real-time KPI results as well as Ovation Enterprise Data Solutions (EDS) reports daily showing how well the Wastewater Operating Services teams are performing and where to focus their efforts to better improve the report findings.

Team members can see their crews' Key Performance Indicators and adjust or maintain their plans to meet their overall service and monthly goals. They are more informed of their performance throughout the month and can make adjustments if needed. Having these displays in public areas adds another layer of efficient, collaborative communication.



IT Enterprise Asset Management Systems

The IT Enterprise Asset Management Systems Team along with our consultant partner, NEXGEN, and GLWA's Enterprise Asset Management Group successfully launched NEXGEN Enterprise Asset Management (EAM) on November 4, 2024. NEXGEN streamlines the way GLWA manages our assets, service requests, preventive, predictive, and correction work orders, and warehouse inventory empowering us to leverage more accurate data for decision-making through dashboards, reports, and long-range asset planning.



INFORMATION TECHNOLOGY (continued)



Post-go live support is underway providing robust assistance during a six-month stabilization period to enhance adoption of the new system. Refresher training will be provided in November for those who request it after go-live.

This go-live is the culmination of over three years of effort and focus by many team members across GLWA as well as NEXGEN. This pivotal digital transformation journey replaces legacy paper processes with mobile-based workflows providing real-time data entry and communication. We thank all those involved with this successful endeavor to implement an EAM system to serve GLWA and its member partners for years to come!

IT Project Management Office (PMO)

Currently, the IT PMO is managing 17 active projects and is processing four project requests. The PMO is also assisting with 21 initiatives.

PUBLIC AFFAIRS

TAP IN 2.0 Update

The TAP IN 2.0 recruitment campaign continues to bring in some big numbers. Here is the latest:

- Video views: 238,000+
- Impressions: 4,400,000+
- Leads back to GLWA Careers Page from Tap In content: 7,700+
- 10,000+ new users to the GLWA website since campaign launch

To view the new commercial, click [HERE](#).

PUBLIC AFFAIRS (continued)

As a part of our ongoing efforts to assist Organizational Development (OD) with recruiting efforts, Public Affairs worked with OD to create materials (like the mini pull-up banner pictured below) for them to take to events like career fairs to help bring attention to GLWA as a brand. It highlights important roles, and includes a call to action, directing potential team members to the careers page of our website where they can apply.



Water Residential Assistance Program (WRAP) Tour

On October 29th, Public Affairs supported the Affordability and Assistance Team who hosted a tour of Waterworks Park for WRAP's service delivery partners. The Public Affairs Group supported the tour by taking photographs and engaging in meaningful conversations about the WRAP program's impact and value in the community. In 2025, GLWA plans to develop videos and other creative assets to help secure funding for WRAP by showcasing its tangible value and the positive effects it has on the communities we serve.

This event provided a wonderful opportunity to connect with those who directly witness the impact of WRAP in their communities.



Water Works Park Plant Manager Andrae Savaae leads a tour of WRAP service

PUBLIC AFFAIRS (continued)

Breast Cancer Awareness Month Fundraising Another Great Success

GLWA team members showed incredible support and generosity last month as we raised money to aid in the American Cancer Society's mission to end breast cancer. Together, GLWA raised an impressive \$4,896.65, which is \$1,500 more than was donated last year. We also honored 66 loved ones with their names featured on our Pink Out the Plant t-shirts, nearly doubling last year's number.



*The Fleet Team looking great for Pink Out the Plant at CSF!
(L to R) Lawrence Feagin, Desiree Kennedy, Alexis Cupp, Charles Ingram and David Banka.*

NEXGEN Launch Communications

The Public Affairs team worked closely with Information Technology to create and execute a communications plan surrounding the launch of NEXGEN, GLWA's new cloud-based, mobile-enabled, and user-friendly Enterprise Asset Management System (EAM) System. Communications consisted of easy-to-understand language and links to support multiple forms. Public Affairs was also able to communicate the information over our REACH monitors in each facility.

SECURITY AND INTEGRITY

The Hazmat Unit coordinated and completed a total of 353 hours of training during the month and completed 662 total training hours for the Security and Integrity group for the month of October.

The Emergency Preparedness Unit conducted an Incident Command System workshop on October 24, 2024 with our GLWA Outreach Member Partners in Farmington Hills.

SECURITY AND INTEGRITY (continued)

Security and Integrity continued the “Run, Hide, Fight” active shooter training for all GLWA team members.

The group facilitated a tabletop exercise at Water Works Park for the Springwells Water Plant staff on all hazard emergency response.

Lastly, Security and Integrity designed and scheduled a “Threat and Vulnerability Assessment” for November 13 and 14th at the Water Resource Recovery Facility.

ORGANIZATIONAL DEVELOPMENT

Team Member Engagement – Benefits, Well-being, and Resiliency

Physical Well-being

GLWA 2025 Open Enrollment and Wellness Fair

The GLWA 2025 Open Enrollment was held from October 1, 2024 – October 3, 2024. This successful event provided information about benefits and wellness resources available to GLWA team members. This year’s festive event included a 70’s theme that engaged team members as well as our benefit-related vendors.



On-site health screenings were held at the Water Resource Recovery Facility (WRRF), Central Services Facility, and Water Works Park.

Vendors included: Blue Cross Blue Shield of Michigan, Health Alliance Plan, Delta Dental of Michigan, Heritage Vision Plans, Nationwide, Ulliance EAP and MissionSquare Retirement.

Flu Shot Clinic

GLWA also hosted on-site flu shot clinics at three facilities at no cost to team members. Michigan Community Visiting Nurses Association administered 120 influenza vaccines.

ORGANIZATIONAL DEVELOPMENT (continued)

Health Screenings

Cardiovascular screenings were provided at no-cost to GLWA team members and DWSD employees as well. Angiology Corporation of America conducted 140 screenings.

Two team members were identified with arteries that were more than 50 percent blocked.



The 10 minute on-site screening requires no preparation or blood-work, and costs little more than the conventional biometric screenings. It provides the best-known tests for detecting vascular disease, the leading cause of heart attacks and strokes, and it instantly provides a highly engaging written and digital visual report. For the first time participants can see what the lining of their arteries looks like in an instant one-page report. The screening is mobile, non-invasive, involves no radiation and no needles!

GLWA Men's Health Initiative

The GLWA Men's Health Initiative recently expanded to the WRRF, Conveyance & Combined Sewer Overflow Teams. On October 22nd and 24th approximately 40 team members enjoyed an informative presentation from Dr. Alvin Sims, Licensed Master's Social Worker. Dr. Sims led discussions centered around the theme, "*Self-Care & Resiliency: Standing After the Storm*", and provided a wealth of resources, including mental wellness action and self-care plans.



Blue Cross Blue Shield of Michigan (BCBSM) Virtual Well-Being Webinars



Held Thursdays at noon, the September Virtual Well-Being Webinars facilitated by the BCBSM well-being team challenged team members to:

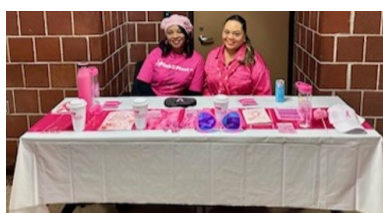
- Learn about breast cancer to make informed decisions,
- Better understand the effects of sugar on your body,
- Help adults and teens understand symptoms of anxiety and depression
- Prioritize men's health and their influence
- Embrace health benefits of staying hydrated

ORGANIZATIONAL DEVELOPMENT (continued)

October webinars comprised subjects on:

- “Breast Cancer Awareness – Knowledge is Power”
- “Sweeten Your Knowledge About Sugar”
- “Share with Your Teen! A Teen Behavioral Health Conversation with Dr. Kristyn Gregory and Laura Cardamone”
- “Men’s Health Perspective with Efe Scott-Emuakpor”
- “The Science-Based Benefits of Hydration”

Pink Out the Plant



Lesley Williams and Cynthia Offutt from the One Water Wellness Team, assisted 40 team members at the WRRF Pink Out the Plant on October 25th. They provided breast cancer awareness materials, resources and promotional items to promote health and well-being.

31 Days of Health - Fall Edition

GLWA team members participated in the month-long fall edition of the 31 Days of Health as a solo participant or in a team to compete against each other for weekly token prizes to the highest steppers.

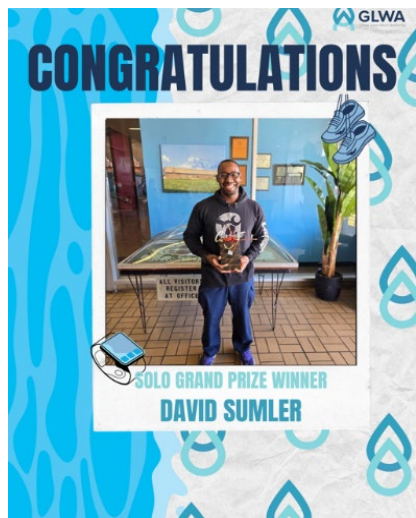
The 62 team members walked a total of **4,800,914 steps**. That’s more than the distance from the Water Board Building to the City of Phoenix Water Department in Arizona (over 2,000 miles). That’s AZ Water for our AWWA members!



Participants submitted logged activity calculations for each week during the event. The activities included not only walking, but also weightlifting, dancing, stair-climbing, cleaning and other varying activities.

ORGANIZATIONAL DEVELOPMENT (continued)

The grand prize awarded this year were five Stanley tumblers donated by our benefit partners: Purchasing Power, Health Alliance Plan, and Hinge Health.



David Sumler
Maintenance Technician
Southwest Water Plant
Solo Grand Prize Winner



Aaron Butler, Team Leader
Audrey Jason, Maintenance Technician (Not Shown)
Jeffrey Jones, Manager
Tamika Winston, Team Leader
Team: Keep It Stepping 4.0
Southwest Water Plant

Mental Well-being

Wellness Wednesday Meditations

Held Wednesdays at noon, GLWA team members participated in October meditations led by the BCBSM well-being team. Each session focused on providing GLWA team members resources to overcome challenges, deep relaxation, energize the body and promote a sense of inner balance. September topics included: “Deep Relaxation”, “Sunset Soud Bath”, “Alternate Nostril Breathing”, “Overcoming Challenges”, and “Calm”.



ORGANIZATIONAL DEVELOPMENT (continued)

Financial Well-being

National Retirement Security Month

The Department of Labor facilitated outreach presentations to educate against common investing pitfalls and improve employee retirement outcomes for nearly 40 team members. The three-part series over a 3-week period included:

1. Taking the Mystery out of Retirement Planning.
2. What Women Should Know About Their Retirement Plan.
3. What You Should Know About Your Retirement Plan.



Mark Huston from MissionSquare Retirement facilitated a seminar titled, "*Be Prepared for Unexpected Health Care Costs.*" He supplied over 10 team members with resources for Medicare.

Team members learned how Medicare works and how to get the coverage they need at the right cost. Team members also learned:

- Pertinent information about the Medicare enrollment period
- Medicare Part A (hospital insurance)
- Part B (medical insurance)
- Part C (supplement insurance)
- Part D (prescription drug coverage)
- Why Medicare options should be reviewed annually



Retirement Planning Lunch & Learn

Team members were able to meet with MissionSquare retirement plan specialists virtually October 21, 2024. Nine team members were able to review their retirement goals and portfolio performance during one-on-one consultations.

The Lake Huron Water Plant hosted the MissionSquare Retirement Education on-site lunch and learn seminar for 22 team members on October 22, 2024.

Benefit and Wellness Education

One Water Wellness Office Hours

Over 420 team members were able to meet one-on-one for assistance with benefits, retirement, FMLA, and wellness resources.

ORGANIZATIONAL DEVELOPMENT (continued)



BENEFITS AND WELLNESS QUESTIONS???

Your One Water Wellness Team



Cynthia Offutt



Lesley Williams



Au Lisa McGovern



Morgan Mindingall



Sherrian Greenwood

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

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

Talent Management

Staffing

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

Number of New Hires	14
Number of Separations	8
Total Staffing – Regular FTEs (YTD)	1071
Total Staffing – Part-Time (YTD)	16

FINANCIAL SERVICES AREA

October 2024 Audit Committee Recap

The October 2024 regular monthly Audit Committee meeting was held on Friday, October 25, 2024. The GLWA Audit Committee binders are publicly available at www.glwater.org/financials/. The meeting included the following topics:

- ✓ Annual Financial Audit Update
- ✓ Audit Committee recommendation that the Great Lakes Water Authority Board approve Resolutions Authorizing Publication of Notice of Intent to Issue Water Supply Revenue Bonds and Sewage Disposal System Revenue Bonds
- ✓ Audit Committee recommendation that the Great Lakes Water Authority Board approve the Proposed Amendment to the Debt Management Policy
- ✓ Audit Committee recommendation that the Great Lakes Water Authority Board approve the contract renewal for the Fraud & Ethics Hotline
- ✓ Monthly Financial Report for June 2024

FINANCIAL SERVICES AREA (continued)

- ✓ Monthly Affordability & Assistance Update
- ✓ Quarterly WRAP Report through June 30, 2024
- ✓ Monthly updates on the Gifts, Grants & Other Resources activities
- ✓ Circulation of the latest Procurement Pipeline
- ✓ Semi-Annual Debt Report through September 30, 2024
- ✓ Qualified Financial Institutions Report
- ✓ Quarterly Construction Work in Progress Report through June 30, 2024
- ✓ Charges Outreach & Modeling Update
- ✓ Annual Conflict of Interest Reporting

Affordability & Assistance Update

The Affordability & Assistance team hosted over thirty of our Water Residential Assistance Program (WRAP) service delivery partners for a tour of Water Works Park (WWP). Partners joined from the Macomb County Community Action Agency, United Way for Southeastern Michigan, and Wayne Metropolitan Community Action Agency. Partners engaged in an icebreaker activity and were able to take advantage of networking opportunities. Andrae Savage, WWP Manager, served as the group's tour guide and enlightened our guests on GLWA's water system as well as identifying which plants delivered water in their area. Our service delivery partners are a vital part of getting assistance to the GLWA residents we service. We appreciate all their hard work and dedication.



Andrae Savage, WWP Manager leads a facility tour for the WRAP Service Delivery Partners

OneWater, One Team!



WRAP Service Delivery Partners gather for a quick photo at the Water Works Park WRAP tour

Additional WRAP materials, including information on our WRAP service delivery partners, flyers (in four different languages), frequently asked questions, and reports, can be found at glwater.org/assistance.

FINANCIAL SERVICES AREA (continued)

Procurement Update



Last month, members of the GLWA Procurement team attended the Michigan Public Purchasing Officers Association (MPPOA) annual fall conference in Detroit, Michigan. Over 70 MPPOA members attended the two-day event where educational sessions were held on automating

procurement and project management, determining sourcing methods, collaborating with end users, and increasing vendor participation. In addition, GLWA Procurement Team Members attended networking sessions with procurement professionals throughout the state of Michigan, including municipalities, universities, and airport and transit authorities.

The MPPOA is an official chapter of the National Institute of Governmental Purchasing and was founded in 1971 as a non-profit professional organization of persons who are employed by a public agency or institution in Michigan. Each year, the MPPOA provides quality support, including education and networking services, to public purchasing professionals throughout the state.

The September 2024 Procurement Pipeline is attached. This edition includes valuable information about the launch of our new Vendor Performance Assessment Program which is a scored survey that analyzes a vendor's performance throughout the execution of a contract. This program is designed to facilitate proactive communication between GLWA and our vendor partners in a consistent and collaborative manner. This month's Pipeline also includes a list of upcoming solicitations.

OFFICE OF THE GENERAL COUNSEL

New Cost Reimbursement Policy: The Office assisted in drafting a new "GLWA Policy and Procedure Regarding Cost Reimbursement to Member Partners for GLWA Critical Aid Request". The policy provides that (1) if a Member Partner alters its normal water operations in response to a GLWA request for critical aid during an emergency, (2) incurs and documents certain allowable costs directly related to providing the aid, and (3) follows the claim procedure established by the policy, GLWA will review and respond to the claim within the timing and guidelines set by the policy. Claims may be paid in full, paid in part, or rejected. Any payment on a claim will be made as a credit on the Member Partner's wholesale water account after the Member Partner executes a claim settlement and release agreement.

OFFICE OF THE GENERAL COUNSEL (continued)

Legislative Updates: The Office is monitoring infrastructure spending bills at the federal and state level, supporting the activities regarding proposed water affordability legislation, working with others to develop state stormwater utility legislation, and continuing discussions with members of the U.S. Congress, staffers, and various representatives of several regulatory agencies such as the EPA, 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. Discovery continues in this matter and witnesses are being interviewed. The Court entered a Stipulated Scheduling Order on August 21, 2024. Parties Disclosures shall be filed no later than September 16, 2024. Expert Witness Lists are due in October 2024 with Mediation scheduled for November 2024.

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. There were no new lawsuits received by GLWA this month regarding 2021 rain events.

Negotiations with the City of Dearborn: Meetings have been tentatively scheduled for December 2024, with the City of Dearborn regarding terms of a Water Service Contract. Dearborn's City Attorney provided Dearborn's edits to the proposed contract. GLWA will meet and confer and respond accordingly.

Highland Park Settlement Agreement: On February 14, 2024, the GLWA Board voted to approve of the settlement agreement in final (or next to final) form. On March 18, 2024, the Highland Park City Council unanimously approved the Settlement Agreement between GLWA and the City.

When the Settlement Agreement is fully executed, the trust incorporated as a part of the Settlement Agreement is funded, and initial distributions from the trust are received, the Highland Park litigation will be closed. The trust has been funded and the initial distributions from the trust have been received.

On June 10, 2024, the following Stipulated Orders were submitted to the Court: a stipulated order to dismiss the 2014 case; a stipulation for dismissal of the 2023 appeal from the 2014 case; a stipulated order for dismissal of the 2020 case; and a stipulated order for release of the cash bond to GLWA in the federal case. As of this reporting, all Stipulated Orders have been entered by the courts, and the cash bond in the federal case has been returned to GLWA.

Mays, et al v GLWA: The Court recently entered an order partially granting GLWA's Motion for Summary Disposition and partially dismissing Plaintiffs' claims.

OFFICE OF THE GENERAL COUNSEL (continued)

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. As part of this collaboration, OGC attends the GLWA/DWSD/EGLE monthly Compliance Calls. Additionally, Associate General Counsel, Lavonda Jackson, attended EGLE's Collaborative Planning Session for Equitable and Just Climate Action.

Federal Grants and Contracts: The OGC has commenced a checklist of the necessary changes that GLWA must make to its policies, SOPs, and federal contract exhibits in compliance with the new Uniform Grants Guidance, which has become effective October 1, 2024. Implementation of these checklist items have commenced. In addition, the OGC is collaborating with the GLWA grants team to obtain approval of the Department of Energy Hydrothermal Liquefaction Budget Period 2, Go/No-Go decision is scheduled to be delivered on or after October 1, 2024.

Record Retention Policy: The Office has received approval for GLWA's record retention policy from the State and has finalized GLWA's Record Storage and Disposal Policy to work hand in hand with it. The OGC has completed training for GLWA team members and the administration of the policies is now underway.

Industrial Pretreatment Program ("IPP") & Industrial Waste Control Group (IWC): The Office continues to provide assistance on PFAS and PFOS matters. The *2024 Updated IPP Rules* were submitted to the Board and GLWA will accept public comments until November 11, 2024. OGC is coordinating responses to all comments received. The Office is also consulting on an IWC Appeal from Fiat Chrysler Automobiles (FCA), regarding a violation notice issued by GLWA IWC. Pursuant to the IPP Rules, a Conciliation meeting with FCA is scheduled to discuss the violation.

Real Estate: The Office is working to secure licenses, 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.

OFFICE OF THE GENERAL COUNSEL (continued)

Member Outreach: The Office continues to be an active participant in Member Outreach sessions. Associate General Counsel Lavonda Jackson, participated in the Water Supply Advisory Council Meeting. This meeting is held in accordance with Michigan's 2018 revision to the Lead and Copper Rule (LCR) which created state-level and utility-level water advisory councils. The GLWA's advisory council provides communications related to lead in drinking water as well as other drinking water quality issues. Information on the corrosion control program was shared with GLWA communities.

Main Relocations: The Office continues to support water operations in its discussions with community stakeholders regarding water main relocations. The 96-inch relocation project has made substantial progress, which was presented at the GLWA 96-inch Water Transmission Main Stakeholder Advisory Committee Meeting. This meeting is held semi-annually with all impacted communities and entities, to update progress on the project. Stakeholder coordination continues with ITC, Sunoco, Utica Community Schools, Rochester Schools and others for the upcoming North Dequindre segment.

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.

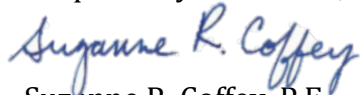
OFFICE OF THE GENERAL COUNSEL (continued)

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:	48
Contracts drafted or revised:	89
Subpoenas/Information requests received:	11
Subpoenas/Information responded to:	10

Respectfully submitted,



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

SRC/dlr

Attachment: Financial Report: June 2024 Executive Summary, October 2024 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)

Variances are monitored by the Great Lakes Water Authority (GLWA) management and operating and/or budget priorities are re-evaluated where appropriate. Staff reviews the need for budget amendments quarterly and requests necessary amendments when required based on the most current information available. Third quarter budget amendments were approved by the Board of Directors on June 26, 2024 and are reflected in this report.

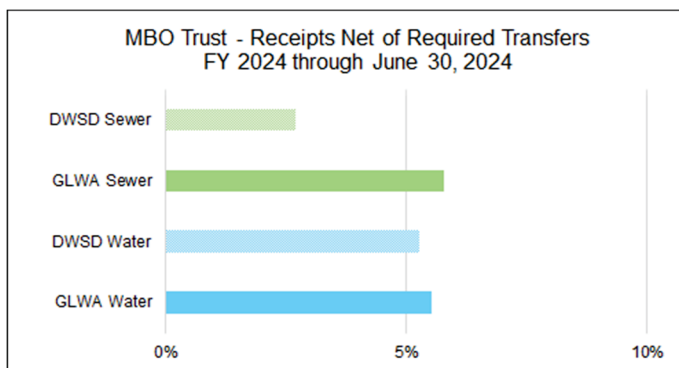
For the current year, water operations and maintenance, water and sewer capital spend, and investment earnings reflect variances to budget outside the normal range. Capital spend variances reflect evolving changes in timing that the Capital Improvement Planning group continues to monitor and review. Water operations and maintenance as well as investment earnings reflect positive, yearend closing balances due to lower-than-expected contractual service expense related to changes in project start dates and timing and an interest rate environment that continues to favor investors.

GLWA completed a refunding bond transaction in June 2024 that resulted in \$130.4 million total cash flow savings with a direct impact of \$67.5 million to the Water system and \$62.9 million to the Sewer system (\$76.6 million of present value savings in total).

As of June 30, 2024					
Metric	FY 2024 Budget	FY 2024 Amended Budget	FY 2024 Actual	Variance from Financial Plan	Report Page Reference
Wholesale Water Billed Revenue (\$M)	\$347.2	\$339.9	\$340.1	0%	48
Wholesale Water Billed Usage (mcf)	13,577,000	12,890,000	12,890,000	0%	
Wholesale Sewer Billed Revenue (\$M)	\$281.9	\$281.9	\$281.9	0%	50
Wholesale Water Operations & Maintenance (\$M)	\$152.9	\$168.9	\$161.0	-5%	5
Wholesale Sewer Operations & Maintenance (\$M)	\$205.6	\$224.9	\$222.7	-1%	
Investment Income (\$M)	\$15.3	\$46.6	\$59.5	28%	37
Water Prorated Capital Spend w/SRA* (\$M)	\$239.3	\$194.9	\$177.6	-9%	28
Sewer Prorated Capital Spend w/SRA* (\$M)	\$199.1	\$154.3	\$136.4	-12%	29

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

Master Bond Ordinance (MBO) Trust Net Receipts (page 53)



Net cash flow receipts remain positive for GLWA and DWSD 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 \$6.5 million and DWSD Sewer reports a surplus of \$8.0

million of net receipts over disbursements through June 2024.

Budget to Actual Analysis (page 3)

- FY 2024 information includes the third quarter budget amendments approved by the GLWA Board of Directors on June 26, 2024. These are the final budget amendments for FY 2024.
- The tables in this section are presented in a draft format. Any necessary adjustments related to the fiscal year end 2024 audit will affect the Budget to Actual Analysis.
- Total Revenue Requirements are on target through June 2024.
- Total, overall Operations & Maintenance expenses are at 97.5% of budget through June 2024, which equates to a positive variance of \$10.0 million.

Basic Financial Statements (page 9)

- The Basic Financial Statements are prepared on a full accrual basis and reflect preliminary, unaudited results.
- Operating income for June 2024 is \$86.2 million for the Water fund (24.0% of total revenues) and \$102.7 million for the Sewer fund (21.5 % of total revenues).
- Water Net Position increased by \$ 12.7 million, and Sewage Disposal Net Position increased by \$ 28.4 million for the year to date through June 2024.

Capital Improvement Plan Financial Summary (page 28)

- Water system costs incurred to date are below the 79.4% Capital Spend Ratio assumption.
- Sewer system costs incurred to date are below the 70.3% Capital Spend Ratio assumption.

Master Bond Ordinance Transfers (page 31)

- For June, transfers of \$19.0 million and \$21.8 million were completed for the GLWA Water and Sewer funds, respectively.
- Also for June, transfers of \$5.6 million and \$6.9 million were completed for the DWSD Water and Sewer funds, respectively.

Cash Balances & Investment Income (page 38)

- Total cash & investments are \$616 million for Water and \$745 million in the Sewer fund.
- Total, combined, cumulative, FY 2024 investment income through June is \$59.5 million.

DWSD Retail Revenues, Receivables & Collections (page 42)

- Water revenue through June 30, 2024 is 103.10% and usage is 104.56% of budget.
- Sewer revenue through June 30, 2024 is 97.58% and usage is 100.71% of budget.
- Combined accounts receivable balances for the water and sewer funds report a decrease of \$2.2 million over the prior year.
- Past dues over 180 days make up of 68.3% the total accounts receivable balance. The current bad debt allowance covers over 97.7% of past dues over 60 days.

GLWA Wholesale Billing, Receivables & Collections (page 48)

- GLWA accounts receivable past due balance net of Dearborn is 0.27% of the total accounts receivable balance. Discussions remain underway between GLWA and Dearborn regarding the water balance in dispute.
- Average wholesale water collections for the period of July 2023 through June 2024 are trending slightly above the prior year.
- Average wholesale sewer collections for the period of July 2023 through June 2024 are trending slightly below the prior year.

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

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

GLWA's 2024 Vendor Outreach Event

Last month, GLWA hosted its annual Vendor Outreach Event at the Auburn Hills Marriott in Pontiac with over 225 Vendors in attendance. This year's event was a great opportunity to connect in person with Vendors, to hear your most important questions, to share new info about GLWA, and to provide opportunities for business-to-business networking. In this special, extended edition of the *Procurement Pipeline* newsletter we are excited to share photos from GLWA's 2024 Vendor Outreach event.



GLWA Vendors networked over breakfast before the General Session.

During the event General Session, Vendors heard presentations by GLWA Leadership team members

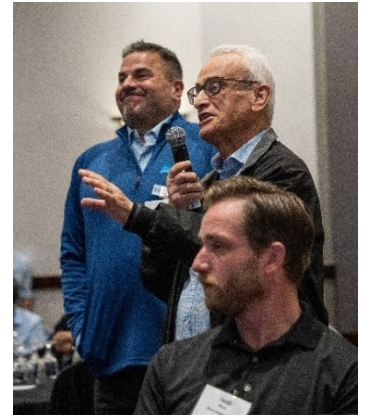


GLWA General Counsel David Jones presented on "Ethics in Public Procurement."

on what's new at GLWA including info on GLWA's financial outlook and

updated procurement processes.

In addition, a panel discussion featuring five GLWA prime contractors provided small business vendors with information on how to become subcontractors. Many thanks to Matt Glaz (Commercial Contracting Corp.), Gino D'Agostini (Ric-Man Construction), Todd Schurig (Kokosing Industrial Inc.), Colt Odeh (Clark Construction) and Thomas Hardiman Sr. (LGC Global)!

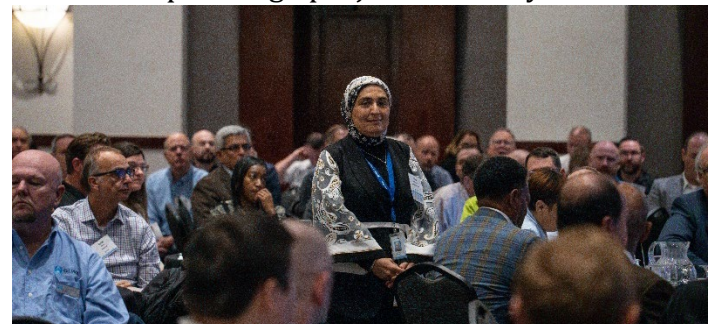


GLWA Vendor asking a question during the Open Q&A session.



GLWA Prime Contractors participated in panel discussion on "How we Select our Subcontractors."

The General Session was followed by two Breakout Sessions. The first session featured GLWA's Capital Improvement Plan (CIP) Project Management Plan (PMP) and provided Vendors with important details and context on the CIP Plan as well as key info on upcoming project delivery schedules.



CIP Director Dima El-Gamal.

The second session was services and goods focused and featured a panel discussion on how to



GLWA Procurement Manager and Team Leads participated in panel discussion on "How to Successfully Respond to a GLWA RFB/RFP."

successfully respond to GLWA requests for bid or proposal. This was followed by a presentation on



GLWA Procurement Management Professional Steve Vesschemoet presented GLWA's Vendor Performance Assessment Program.

GLWA's Vendor Performance Assessment (VPA) Program.

Resource tables where Vendors could meet one-on-one with representatives from the GLWA Procurement and Accounts

Payable teams and others were also available throughout the half-day event.



Members of GLWA's Accounts Payable Team staffed Resource Tables where vendors could ask their questions in a one-on-one setting.

GLWA thanks the Vendor Community for attending the 2024 Outreach Event! GLWA values its

partnership with the Vendor Community in our service to southeast Michigan. We look forward to seeing you next year!

The 2024 Vendor Outreach Contact Guide

To help ensure that the Vendor Community has direct access to the GLWA team members who can best answer your questions, we have created the 2024 Vendor Outreach Contact Guide. This guide, which provides contact information for GLWA team members involved in all aspects of the procurement process, may be accessed by attendees of the 2024 Vendor Outreach event via the Whova mobile or web platform. All other Vendors interested to receive the Contact Guide may request a copy via GLWAVendorOutreach@glwater.org.

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 September 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 October 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	\$100,000,000
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	260206	Rehabilitation of 7 Mile Sewer System	\$30,000,000
Construction	211005.2	WRRF Pump Station 2 VFD Replacements	\$12,000,000
Design	270007	CSO Facility Disinfection Improvements	\$2,000,000
Construction	270006	CSO Facility Improvements II	\$15,000,000
Construction	260904	Renovation of the New Administration Building 3 rd Floor	\$3,300,000
Construction	260210	Lonyo Sewer System Rehabilitation	\$24,000,000
Water System (next three months)			
Professional Services	O&M	Above/Below Ground Fuel System Maintenance	\$900,000
Design	113010	Southwest WTP Flocculation Improvements	\$4,933,000
Projects moved to Procurement Team (Preparing for solicitation on Bonfire)			
Construction	112008	Northeast WTP Filter Replacement	\$85,550,000
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
Construction	122004	96-Inch Water Transmission Main Relocation - Phase III	\$100,000,000
Construction	112007	Structural Repairs, Northeast Water Treatment Plant	\$6,000,000
Construction	232002	Conner Creek Pump Station Improvements	\$36,000,000
Professional Services	O&M	USACE Southeast Michigan Flood Resiliency Support – Flood Study	\$1,500,000
Professional Services	O&M	WRRF CSO and SPS Generator Preventative Maintenance	\$400,000
Professional Services	O&M	Emergency Standby Generator Preventative Maintenance	\$2,910,225
Construction	170306	Instrumentation and Control System Plant - wide SCADA	\$3,340,000
Professional Services	O&M	Staffing Services	\$750,000
Professional Services	O&M	Investment Services	\$2,200,000
Professional Services	O&M	Floor Covering Supply and Installation Services	\$246,000
Professional Services	O&M	Boiler System Services	\$300,000
Professional Services	O&M	Fleet Management Services including Maintenance, Leasing and Upfitting Vehicles	\$14,667,500

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

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