



**Special Audit Committee Meeting**  
**Friday, December 8, 2023 at 8:00 a.m.**  
*www.glwater.org*

**[Join Zoom Meeting](#)**

Meeting ID: **857 8683 8687** Passcode: **306962**

US Toll-free: **888 788 0099** or **877 853 5247**

**AGENDA**

1. CALL TO ORDER
2. ROLL CALL
3. APPROVAL OF AGENDA
4. APPROVAL OF MINUTES
  - A. November 17, 2023 (Page 1)
5. PUBLIC PARTICIPATION
6. OLD BUSINESS
7. NEW BUSINESS
  - A. *Action Item:* Annual Financial Report Presentation (Page 7)
  - B. *Action Item:* 1st Quarter Budget Amendments (Page 282)
  - C. *Action Item:* Public Hearings on Proposed FY 2025 Schedule of Revenues and Charges and FY 2025 & FY 2026 Biennial Budget Request (Page 326)
8. REPORTS - None
9. COMMUNICATIONS - None
10. LOOK AHEAD
  - A. Next Audit Committee Meeting: December 15, 2023 at 8:00 a.m.
11. OTHER MATTERS
12. ADJOURNMENT



# Great Lakes Water Authority

735 Randolph Street  
Detroit, Michigan 48226  
glwater.legistar.com

## Meeting Minutes - Draft

### Audit Committee

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Friday, November 17, 2023

8:00 AM

Zoom Telephonic Meeting

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#### Zoom Telephonic Meeting

Join Zoom Meeting:

<https://glwater.zoom.us/j/81102411262?pwd=TUc2NHcyak5ySGlyTHVwZlIxUEdvQT09>

Join By Telephone

US-Toll Free:

8777 853 5247; or 888 788 0099

Meeting ID: 811 0241 1262

Passcode: 156443

#### 1. Call To Order

Chairperson Baker called the meeting to order at 8:01 a.m.

#### 2. Quorum Call

**Present:** 3 - Chairperson Brian Baker, Director Gary Brown, and Director Jaye Quadrozzi

#### 3. Approval of Agenda

Chairperson Baker requested a Motion to Approve the Agenda.

**Motion By:** Jaye Quadrozzi

**Support By:** Gary Brown

**Action:** Approved

The motion carried by a unanimous vote.

#### 4. Approval of Minutes

A. [2023-440](#) Approval of minutes from November 9, 2023

**Sponsors:** Nicolette Bateson

**Indexes:** Finance

**Attachments:** [4A Minutes - November 9, 2023 Audit Committee Meeting](#)

Chairperson Baker requested a Motion to Approve the November 9, 2023 Audit Committee Meeting Minutes.

Motion By: Jaye Quadrozzi

Support By: Gary Brown

Action: Approved

The motion carried by a unanimous vote.

5. Public Comment

There were no public comments.

6. Old Business

A. [2023-441](#) Annual Financial Report Update

**Sponsors:** Nicolette Bateson

**Indexes:** Finance

**Attachments:** [6A1 FY 2023 Annual Financial Audit Update](#)  
[6A1.1 FY 2023 Annual Financial Audit BT Timeline Update 112023](#)

Motion By: Jaye Quadrozzi

Support By: Gary Brown

Action: Received and Filed

The motion carried by a unanimous vote.

**B.**     [2023-443](#)     Final Report: 2023 Tender, Refunding, and New Money Bond Transaction

**Sponsors:** Nicolette Bateson

**Indexes:** Finance

**Attachments:** [6B0 Report 2023 Tender Refunding New Money Bond Transaction](#)

[6B1 GLWA Board Presentation 2013 Bond Deal 1.16.2023](#)

[6B2 Fitch 2023.11.10 GLWA \(MI\) WATER SER2023 Final Report](#)

[6B3 Fitch 2023.11.10 GLWA \(MI\) SEWER SER2023 Final Report](#)

[6B4 Moody's](#)

[Credit Opinion-Great-Lakes-Wtr-Auth-MI-Update-26Oct2023](#)

[6B5 SPCreditResearch Analysis Water 10 26 2023](#)

[6B6 SPCreditResearch Analysis Sewer 10 26 2023](#)

**Motion By:** Jaye Quadrozzi

**Support By:** Gary Brown

**Action:** Received and Filed

The motion carried by a unanimous vote.

**7. New Business****A.**     [2023-442](#)     Proposed Calendar Year 2024 Audit Committee Meeting

**Sponsors:** Nicolette Bateson

**Indexes:** Finance

**Attachments:** [7A1 2024 Audit Committee Meeting Calendar](#)

[7A2 Audit Committee Proposed 2024 Meeting Schedule Notice](#)

**Motion By:** Jaye Quadrozzi

**Support By:** Gary Brown

**Action:** Approved

The motion carried by a unanimous vote.

**8. Reports****A.**     [2023-445](#)     CFO Report (Verbal)

**Sponsors:** Nicolette Bateson

**Indexes:** Finance

Nicolette Bateson, Chief Financial Officer/Treasurer, provided a verbal update stating next month's Audit Committee meeting will be updates on staffing, in addition to getting the budget balanced to provide a report for the Audit Committee's consideration.



**B.**     [2023-444](#)     Monthly Financial Reports for July 2023 and August 2023

**Sponsors:** Nicolette Bateson

**Indexes:** Finance

**Attachments:** [8B1 July 2023 Financial Report](#)  
[8B2 August 2023 Financial Report](#)

**Motion By:** Jaye Quadrozzi  
**Support By:** Gary Brown  
**Action:** Received and Filed  
The motion carried by a unanimous vote.

**C.**     [2023-446](#)     Business Inclusion and Diversity Program Update

**Sponsors:** Nicolette Bateson

**Indexes:** Finance

**Attachments:** [8C Business Inclusion and Diversity Program Update](#)

**Motion By:** Gary Brown  
**Support By:** Jaye Quadrozzi  
**Action:** Received and Filed  
The motion carried by a unanimous vote.

**D.**     [2023-447](#)     Charges Outreach & Modeling Update

**Sponsors:** Nicolette Bateson

**Indexes:** Finance

**Attachments:** [8D Charges Outreach and Modeling Update - 11-17-2023](#)  
[8D1 2023.10.31 Presentation AWG 2023 Exceedance FINAL](#)

**Motion By:** Jaye Quadrozzi  
**Support By:** Gary Brown  
**Action:** Received and Filed  
The motion carried by a unanimous vote.

**E.**     [2023-448](#)     Affordability & Assistance Update

**Sponsors:** Nicolette Bateson

**Indexes:** Finance

**Attachments:** [8E Affordability & Assistance Update](#)

**Motion By:** Jaye Quadrozzi  
**Support By:** Gary Brown  
**Action:** Received and Filed  
The motion carried by a unanimous vote.

**F. [2023-449](#) Gifts, Grants & Other Resources Report**

**Sponsors:** Nicolette Bateson

**Indexes:** Finance

**Attachments:** [8F Grants Gifts and Other Resources Report](#)

**Motion By:** Jaye Quadrozzi

**Support By:** Gary Brown

**Action:** Received and Filed

**The motion carried by a unanimous vote.**

**G. [2023-450](#) Semi-Annual Debt Report as of September 30, 2023**

**Sponsors:** Nicolette Bateson

**Indexes:** Finance

**Attachments:** [8G Semiannual Debt Report as of 9.30.2023](#)

**Motion By:** Jaye Quadrozzi

**Support By:** Brian Baker

**Action:** Received and Filed

**The motion carried by a unanimous vote.**

**9. Communications**

Nicolette Bateson, Chief Financial Officer/Treasurer, noted the Procurement Pipeline was in the Audit Committee Packet, but was not highlighted on the Agenda.

A Special Audit Committee Meeting is scheduled Friday, December 8, 2023 at 8:00 a.m. to receive the Annual Audit Report from Baker Tilley.

At the regular Audit Committee Meeting scheduled Friday, December 15, 2023, the focus will be on the Proposed Budget and Charges, and the updated Fiscal Plan.

**10. Look Ahead**

A Special Audit Committee Meeting is scheduled for Friday, December 8, 2023 at 8:00 a.m.

The regular Audit Committee Meeting is scheduled for Friday, December 15, 2023 at 8:00 a.m.

**11. Other Matters**

**There were no other matters.**

## 12. Adjournment

Chairperson Baker requested a Motion to Adjourn.

Motion By: Jaye Quadrozzi

Support By: Brian Baker

Action: Approved

The motion carried by a unanimous vote.

There being no further business, the meeting was adjourned at 9:10 a.m.



## **Financial Services Audit Committee Communication**

**Date:** December 8, 2023

**To:** Great Lakes Water Authority Audit Committee

**From:** Steve Hoover, CPA, Financial Reporting Manager

**Re:** FY 2023 Year-end Financial Audit Update

**Background and Analysis:** See attached draft Board Letter.

**Proposed Action:** The Audit Committee recommends that the Board of Directors receives and files the Reports pertaining to the Fiscal Year Ended June 30, 2023 Financial Audit (the FY 2023 Annual Comprehensive Financial Report, FY 2023 Single Audit Act Compliance Report, and FY 2023 Independent Auditor's Communication with those Charged with Governance) and authorizes staff to proceed with the completion and filing of the annual audit reports prior to the due date with the state of Michigan; and authorizes the Chief Executive Officer (CEO) to take such other action as may be necessary to accomplish the intent of this vote.

..Title

**Approval of Audit and Related Draft Financial Reports Pertaining to the Fiscal Year Ended June 30, 2023**

..Body

Agenda of: December 13, 2023

Item No.: **2023-472**

Amount: Not Applicable

**TO:** The Honorable  
Board of Directors  
Great Lakes Water Authority

**FROM:** Suzanne R. Coffey, P.E.  
Chief Executive Officer  
Great Lakes Water Authority

**DATE:** December 13, 2023

**RE: Approval of Audit and Related Draft Financial Reports Pertaining to the Fiscal Year Ended June 30, 2023**

**MOTION**

Upon recommendation of Nicolette N. Bateson, Chief Financial Officer/Treasurer, the Board of Directors (Board) of the Great Lakes Water Authority (GLWA), **moves to receive and file the Reports pertaining to the Fiscal Year Ended June 30, 2023 Financial Audit (the FY 2023 Annual Comprehensive Financial Report, FY 2023 Single Audit Act Compliance Report, and FY 2023 Independent Auditor's Communication with those Charged with Governance) and authorizes staff to proceed with the completion and filing of the annual audit reports prior to the due date with the state of Michigan;** and authorizes the CEO to take such other action as may be necessary to accomplish the intent of this vote.

## **BACKGROUND**

Annually, the Great Lakes Water Authority (GLWA) prepares an Annual Comprehensive Financial Report (ACFR) and Schedule of Expenditures of Federal Awards (SEFA) in accordance with financial accounting standards and federal guidelines. Baker Tilly US LLP (Baker Tilly) has been engaged to perform the GLWA annual financial audit and issue an opinion as to whether the financial statements are fairly stated in accordance with accounting standards for fiscal years ending 2022, 2023 and 2024.

With GLWA's reports nearly complete, the next step is review by the GLWA Board of Directors and requested approval to proceed with filing the report with the Michigan Department of Treasury. It should also be noted that staff will file those reports and related information with other parties such as the federal clearinghouse for the single audit report, and the Electronic Municipal Market Access system ("EMMA") for Municipal Securities Rulemaking Board ("MSRB") requirements.

## **JUSTIFICATION**

The following are attached pertaining to the Fiscal Year Ended June 30, 2023.

### *Reports Related to Performing the Annual Audit*

1. Presentation by Ms. Jodi Dobson, Partner, Baker Tilly US, LLP (external auditor)
2. Final Draft FY 2023 Reporting and Insights from the FY 2023 Audit
3. Final Draft Informal Management Comment Letter
4. Final Draft Management Representation Letter

### *Annual Reports*

5. Presentation of FY 2023 Annual Financial Results
6. One Pager Series: FY 2023 Audit & Financial Results
7. Final Draft FY 2023 Annual Comprehensive Financial Report (ACFR) (with audit opinion)
8. Final Draft FY 2023 Single Audit Act Compliance Report

The process outlined and requested Board action aligns with GLWA's By-laws, ARTICLE XII, Section 2 which states the following.

The Board shall obtain an annual audit of the GLWA's financial statements by an independent certified public accountant and report on the audit and auditing procedures in accordance with state law and generally accepted government auditing standards, as well as federal grant compliance audit requirements. The Board shall furnish at least two copies of the annual audit to each Incorporating Municipality. The audited financial statements shall be posted on the GLWA's website. In addition, the audited financial statements shall be filed with the Michigan Department of Treasury upon approval of the GLWA Board.

#### **BUDGET IMPACT**

Not applicable for the proposed action.

#### **COMMITTEE REVIEW**

The Audit Committee has received updates from staff and auditors on a monthly basis during the course of the year-end audit. On December 8, 2023, the Audit Committee [*insert action*] moves to receive and file the Reports Pertaining to the Fiscal Year Ended June 30, 2023 Financial Audit (the FY 2023 Annual Comprehensive Financial Report, FY 2023 Single Audit Act Compliance Report, and FY 2023 Independent Auditor's Communication with those Charged with Governance) and authorizes staff to proceed with the completion and filing of the annual audit reports prior to the due date with the state of Michigan; and authorizes the CEO to take such other action as may be necessary to accomplish the intent of this vote.

#### **SHARED SERVICES IMPACT**

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



# Great Lakes Water Authority Audit Committee Draft Report on Fiscal Year 2023 Financial and Single Audit

Presented by:

Jodi Dobson, CPA, Partner  
Baker Tilly US, LLP

December 8, 2023





# Today's agenda

- > Audit overview
- > Auditor Communication with Those Charged with Governance
- > Internal control communication
- > Questions

## Audit overview

- Audit was conducted smoothly with no major snags or difficulties.
- Management and staff were cooperative and readily available.
- Audit schedule was maintained and communication between management and auditors was good.
- Remote fieldwork began October 2<sup>nd</sup> and concluded October 13<sup>th</sup>.
- ACFR preparation and review through November.
- No audit adjusting journal entries were noted.
- No single audit findings noted.

# Audit overview

- > Audit performed in accordance with Generally Accepted Auditing Standards and Government Auditing Standards.
- > Audit is based on assessment of control risk in key business process areas. Below are several key areas of review:
  - Cash and investments
  - Revenues and receivables
  - General disbursements
  - Payroll
  - Pension liabilities
  - Long-term debt
  - Intangible asset and related obligation
  - Assets under construction and plant in service
  - Leased assets
  - Net position calculations
  - Analytical review of statement of net position and statement of revenues, expenses and changes in net position



## Audit overview

- Audit objective – obtain reasonable assurance that financial statements are free from material misstatement.
- Financial statements receive an *Unmodified Opinion* (clean opinion).
- Single audit results in *Unmodified Opinion* on compliance and controls over major program.

# Communication with those charged with governance

Area to Be Communicated	Auditor's Response
<b>Auditor's View on Qualitative Aspects of Significant Accounting Policies</b>	<ul style="list-style-type: none"><li>&gt; The significant accounting policies used in the preparation of your financial statements are discussed in Note 1 to the financial statements.</li><li>&gt; Accounting estimates are an integral part of the financial statements prepared by management's knowledge and experience about past and current events and assumptions about future events. We feel that all estimates made by management are in accordance with generally accepted accounting principles.</li></ul>



# Communication with those charged with governance

Area to be Communicated	Auditor's Response
Significant Difficulties Encountered in Performing the Audit	> We encountered no difficulties in performing our audit.
Uncorrected Misstatements	> By Professional Auditing Standards, uncorrected misstatements refer to immaterial passed audit adjustments – there were no passed audit adjustments.



# Communication with those charged with governance

Area to be Communicated	Auditor's Response
Disagreements with Management	<ul style="list-style-type: none"><li>&gt; Professional standards define a disagreement with management as a matter, whether or not resolved to our satisfaction, concerning a financial accounting, reporting, or auditing matter that could be significant to the financial statements or the auditor's report. We are pleased to report that no such disagreements were encountered during the course of the audit.</li></ul>
Other Findings or Issues	<ul style="list-style-type: none"><li>&gt; There are no other issues to disclose as part of the audit in connection with these Professional Auditing Standards.</li></ul>



# Communication with those charged with governance

Area to be Communicated	Auditor's Response
Material Corrected Misstatements	<ul style="list-style-type: none"><li>&gt; Professional standards require us to accumulate all known and likely misstatements identified during the audit, other than those that are trivial, and communicate them to the appropriate level of management.</li><li>&gt; There were no adjustments as part of this year's audit.</li></ul>





# Communication with those charged with governance

Area to be Communicated	Auditor's Response
Management Representations	> We have requested certain representations from management that are included in the management representation letter. A copy of this letter is included with our final communication document.



# Communication with those charged with governance

Area to Be Communicated	Auditor's Response
Management's Consultations with Other Accountants	> Professional standards require the consulting accountant to discuss any such contacts with the current auditor to determine that the consultant has all the relevant facts. We have been involved in any such consultations with other accountants.



# Communication with those charged with governance

Area to be Communicated	Auditor's Response
Auditor Independence	> We are not aware of any relationships between Baker Tilly US, LLP, and Great Lakes Water Authority that, in our professional judgment, may reasonably be thought to bear on our independence.



# Internal control communication

## AU-C Section 265

### *Communicating Internal Control Related Matters Identified in an Audit*

Material weaknesses noted in GLWA's internal control:

None noted

Significant deficiencies noted in GLWA's internal control:

None noted

## **Single Audit – Federal Audit Clearinghouse submissions**

### **OMB is waiving the 30-day deadline for 2023 submissions**

For any 2023 submissions with fiscal periods ending between January 1, 2023 and September 30, 2023, requirement 2 CFR 200.512(1) stating that single audits are due to the Federal Audit Clearinghouse 30 days after receipt of the auditor's report(s), is waived. These audits will be considered on time if they are submitted within nine months after their fiscal period end date.

## Thank You!

We appreciate the work performed by GLWA's accounting staff and management in preparing for and assisting in the audit!

We would be happy to answer any questions regarding the audit.



# Reporting and insights from 2023 audit:

## Great Lakes Water Authority

June 30, 2023

# Executive summary

December 13, 2023

To the Board of Directors  
Great Lakes Water Authority  
Detroit, Michigan

We have completed our audit of the financial statements of the Great Lakes Water Authority (the Authority) for the year ended June 30, 2023, and have issued our report thereon dated December 13, 2023. This letter presents communications required by our professional standards.

Your audit should provide you with confidence in your financial statements. The audit was performed based on information obtained from meetings with management, data from your systems, knowledge of the Authority's operating environment and our risk assessment procedures. We strive to provide you clear, concise communication throughout the audit process and of the final results of our audit.

Additionally, we have included information on key risk areas Great Lakes Water Authority should be aware of in your strategic planning. We are available to discuss these risks as they relate to your organization's financial stability and future planning.

If you have questions at any point, please connect with us:

- Jodi L Dobson, Partner: [jodi.dobson@bakertilly.com](mailto:jodi.dobson@bakertilly.com) or +1 (608) 240 2469
- Gwen Zech, Senior Manager: [gwen.zech@bakertilly.com](mailto:gwen.zech@bakertilly.com) or +1 (608) 240 2443

Sincerely,

Baker Tilly US, LLP

Jodi L Dobson, CPA, Partner

Gwen Zech, CPA, Senior Manager

THIS COMMUNICATION IS INTENDED SOLELY FOR THE INFORMATION AND USE OF THOSE CHARGED WITH GOVERNANCE, AND, IF APPROPRIATE, MANAGEMENT, AND IS NOT INTENDED TO BE AND SHOULD NOT BE USED BY ANYONE OTHER THAN THESE SPECIFIED PARTIES.

BAKER TILLY US, LLP, TRADING AS BAKER TILLY, IS A MEMBER OF THE GLOBAL NETWORK OF BAKER TILLY INTERNATIONAL LTD., THE MEMBERS OF WHICH ARE SEPARATE AND INDEPENDENT LEGAL ENTITIES.



# Responsibilities

## Our responsibilities

As your independent auditor, our responsibilities include:

- Planning and performing the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement. Reasonable assurance is a high level of assurance.
- Assessing the risks of material misstatement of the financial statements, whether due to fraud or error. Included in that assessment is a consideration of the Authority's internal control over financial reporting.
- Performing appropriate procedures based upon our risk assessment.
- Evaluating the appropriateness of the accounting policies used and the reasonableness of significant accounting estimates made by management.
- Forming and expressing an opinion based on our audit about whether the financial statements prepared by management, with the oversight of the Board of Directors:
  - Are free from material misstatement
  - Present fairly, in all material respects and in accordance with accounting principles generally accepted in the United States of America
- Performing tests related to compliance with certain provisions of laws, regulations, contracts and grants, as required by *Government Auditing Standards*
- Considering internal control over compliance with requirements that could have a direct and material effect on major federal programs to design tests of both controls and compliance with identified requirements
- Forming and expressing an opinion based on our audit in accordance with OMB's *Uniform Administrative Requirements, Cost Principles and Audit Requirements for Federal Awards* (Uniform Guidance) about the entity's compliance with requirements described in the *OMB Compliance Supplement* that could have a direct and material effect on each of its major federal programs.
- Our audit does not relieve management or the Board of Directors of their responsibilities.

We are also required to communicate significant matters related to our audit that are relevant to the responsibilities of the Board of Directors, including:

- Internal control matters
- Qualitative aspects of the Authority's accounting practice including policies, accounting estimates and financial statement disclosures
- Significant unusual transactions
- Significant difficulties encountered
- Disagreements with management
- Circumstances that affect the form and content of the auditors' report
- Audit consultations outside the engagement team
- Corrected and uncorrected misstatements
- Other audit findings or issues

# Audit status

## Significant changes to the audit plan

There were no significant changes made to either our planned audit strategy or to the significant risks and other areas of emphasis identified during the performance of our risk assessment procedures.

# Audit approach and results

## Planned scope and timing

### Audit focus

Based on our understanding of the Authority and environment in which you operate, we focused our audit on the following key areas:

- Key transaction cycles
- Areas with significant estimates
- Implementation of new accounting standards

Our areas of audit focus were informed by, among other things, our assessment of materiality. Materiality in the context of our audit was determined based on specific qualitative and quantitative factors combined with our expectations about the Authority’s current year results.

## Key areas of focus and significant findings

### Significant risks of material misstatement

A significant risk is an identified and assessed risk of material misstatement that, in the auditor’s professional judgment, requires special audit consideration. Within our audit, we focused on the following areas below.

Significant risk areas	Testing approach	Conclusion
Management override of controls	Incorporate unpredictability into audit procedures, emphasize professional skepticism and utilize audit team with industry expertise	Procedures identified provided sufficient evidence for our audit opinion
Improper revenue recognition due to fraud	Confirmation or validation of certain revenues supplemented with detailed predictive analytics based on nonfinancial data and substantive testing of related receivables	Procedures identified provided sufficient evidence for our audit opinion

Other areas of emphasis

We also focused on other areas that did not meet the definition of a significant risk, but were determined to require specific awareness and a unique audit response.

Other areas of emphasis		
Cash and investments	Revenues and receivables	General disbursements
Payroll	Pension liability	Long-term debt
Capital assets including infrastructure	Net position calculations	Financial reporting and required disclosures
Shared services with and received from DWSD	Lease payables	Due to and due from other governments

Internal control matters

We considered the Authority's internal control over financial reporting as a basis for designing our audit procedures for the purpose of expressing an opinion on the financial statements. We are not expressing an opinion on the effectiveness of the Authority's internal control.

Our consideration of internal control was for the limited purpose described in the preceding paragraph and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies and, therefore, material weaknesses or significant deficiencies may exist that were not identified.

A deficiency in internal control exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct misstatements on a timely basis.

A material weakness is a deficiency or combination of deficiencies in internal control such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected, on a timely basis. We did not identify any deficiencies in internal control that we consider to be material weaknesses.

## Required communications

### Qualitative aspect of accounting practices

- Accounting policies: Management is responsible for the selection and use of appropriate accounting policies. In accordance with the terms of our engagement letter, we have advised management about the appropriateness of accounting policies and their application. The significant accounting policies used by the Authority are described in Note 1 to the financial statements. No new accounting policies were adopted and the application of existing accounting policies was not changed during 2023. We noted no transactions entered into by the Authority during the year for which accounting policies are controversial or for which there is a lack of authoritative guidance or consensus or diversity in practice.
- Accounting estimates: Accounting estimates, including fair value estimates, are an integral part of the financial statements prepared by management and are based on management's knowledge and experience about past and current events and assumptions about future events. Certain accounting estimates are particularly sensitive because of their significance to the financial statements, the degree of subjectivity involved in their development and because of the possibility that future events affecting them may differ significantly from those expected. The following estimates are of most significance to the financial statements:

Estimate	Management's process to determine	Baker Tilly's conclusions regarding reasonableness
Net pension liability and related deferrals	Key assumptions set by management with the assistance of a third-party actuary	Reasonable in relation to the financial statements as a whole
Allowance for doubtful accounts	Evaluation of historical revenues and loss levels with the analysis on collectability of individual amounts	Reasonable in relation to the financial statements as a whole
Depreciation	Evaluate estimated useful life of the asset and original acquisition value	Reasonable in relation to the financial statements as a whole
Shared services subject to joint review and true up	Evaluation based on joint review and agreement between parties	Reasonable in relation to the financial statements as a whole

There have been no significant changes made by management to either the processes used to develop the particularly sensitive accounting estimates, or to the significant assumptions used to develop the estimates, noted above.

- Financial statement disclosures: The disclosures in the financial statements are neutral, consistent and clear.

**Significant unusual transactions**

There have been no significant transactions that are outside the normal course of business for the Authority or that otherwise appear to be unusual due to their timing, size or nature.

**Significant difficulties encountered during the audit**

We encountered no significant difficulties in dealing with management and completing our audit.

**Disagreements with management**

Professional standards define a disagreement with management as a matter, whether or not resolved to our satisfaction, concerning a financial accounting, reporting, or auditing matter that could be significant to the basic financial statements or the auditors' report. We are pleased to report that no such disagreements arose during the course of our audit.

**Audit report**

There have been no departures from the auditors' standard report.

**Audit consultations outside the engagement team**

We encountered no difficult or contentious matters for which we consulted outside of the engagement team.

**Uncorrected misstatements and corrected misstatements**

Professional standards require us to accumulate all known and likely misstatements identified during the audit, other than those that are trivial, and communicate them to the appropriate level of management. There were no misstatements identified.

**Other audit findings or issues**

We encountered no other audit findings or issues that require communication at this time.

We generally discuss a variety of matters, including the application of accounting principles and auditing standards, with management each year prior to retention as the Authority's auditors. However, these discussions occurred in the normal course of our professional relationship and our responses were not a condition to our retention.

**Management's consultations with other accountants**

In some cases, management may decide to consult with other accountants about auditing and accounting matters. Management informed us that, and to our knowledge, there were no consultations with other accountants regarding auditing or accounting matters.

**Written communications between management and Baker Tilly**

The attachments include copies of other material written communications, including a copy of the management representation letter.

**Compliance with laws and regulations**

We did not identify any non-compliance with laws and regulations during our audit.

**Fraud**

We did not identify any known or suspected fraud during our audit.

**Going concern**

Pursuant to professional standards, we are required to communicate to you, when applicable, certain matters relating to our evaluation of the Authority's ability to continue as a going concern for a reasonable period of time but no less than 12 months from the date of the financial statements, including the effects on the financial statements and the adequacy of the related disclosures, and the effects on the auditor's report. No such matters or conditions have come to our attention during our engagement.

**Independence**

We are not aware of any relationships between Baker Tilly and the Authority that, in our professional judgment, may reasonably be thought to bear on our independence.

**Related parties**

We did not have any significant findings or issues arise during the audit in connection with the Authority's related parties.

**Other matters**

We applied certain limited procedures to the required supplementary information (RSI) that supplements the basic financial statements. Our procedures consisted of inquiries of management regarding the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We did not audit the RSI and do not express an opinion or provide any assurance on the RSI.

We were engaged to report on the supplementary information which accompanies the financial statements but is not RSI. With respect to the supplementary information, we made certain inquiries of management and evaluated the form, content, and methods of preparing the information to determine that the information complies with accounting principles generally accepted in the United States of America, the method of preparing it has not changed from the prior period, and the information is appropriate and complete in relation to our audit of the financial statements. We compared and reconciled the supplementary information to the underlying accounting records used to prepare the financial statements or to the financial statements themselves.

We were not engaged to report on the other information, which accompanies the financial statements but are not RSI. We did not audit or perform other procedures on this other information, and we do not express an opinion or provide any assurance on it.

## Audit committee resources

Visit our resource page for regulatory updates, trending challenges and opportunities in your industry and other timely updates.

Visit the resource page at <https://www.bakertilly.com/insights/audit-committee-resource-page>.



# Management representation letter



December 13, 2023

Baker Tilly US, LLP  
4807 Innovate Ln  
PO Box 7398  
Madison, WI 53707

Dear Baker Tilly US, LLP:

We are providing this letter in connection with your audit of the financial statements of the Great Lakes Water Authority (Authority) as of June 30, 2023 and for the year then ended for the purpose of expressing opinions as to whether the financial statements present fairly, in all material respects, the financial position of the Authority, each major enterprise fund, and the respective changes in financial position and cash flows, where applicable, in conformity with generally accepted accounting principles (GAAP) in the United States of America. We confirm that we are responsible for the fair presentation of the previously mentioned financial statements in conformity with GAAP. We are also responsible for adopting sound accounting policies, establishing and maintaining internal control over financial reporting, and preventing and detecting fraud.

Certain representations in this letter are described as being limited to matters that are material. Items are considered material, regardless of size, if they involve an omission or misstatement of accounting information that, in the light of surrounding circumstances, makes it probable that the judgment of a reasonable person relying on the information would be changed or influenced by the omission or misstatement. An omission or misstatement that is monetarily small in amount could be considered material as a result of qualitative factors.

We confirm, to the best of our knowledge and belief, the following representations made to you during your audit.

### **Financial Statements**

- 1) We have fulfilled our responsibilities, as set out in the terms of the audit engagement letter.
- 2) The financial statements referred to above are fairly presented in conformity with GAAP and include all properly classified funds and other financial information of the Authority required by GAAP to be included in the financial reporting entity.

- 3) We acknowledge our responsibility for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.
- 4) We acknowledge our responsibility for the design, implementation, and maintenance of internal control to prevent and detect fraud.
- 5) Significant assumptions we used in making accounting estimates, including those measured at fair value, if any, are reasonable.
- 6) All events subsequent to the date of the financial statements and for which GAAP require adjustment or disclosure have been adjusted or disclosed. No other events, including instances of noncompliance, have occurred subsequent to the financial statement date and through the date of this letter that would require adjustment to or disclosure in the aforementioned financial statements or in the schedule of findings and questioned costs.
- 7) All material transactions have been recorded in the accounting records and are reflected in the financial statements and the schedule of expenditures of federal and state awards.
- 8) The effects of all known actual or possible litigation, claims, and assessments whose effects should be considered when preparing the financial statements, have been accounted for and disclosed in accordance with GAAP. There are no unasserted litigation, claims or assessments that our lawyer has advised us are probable of assertion.
- 9) Guarantees, whether written or oral, under which the Authority is contingently liable, if any, have been properly recorded or disclosed.

### **Information Provided**

- 10) We have provided you with:
  - a) Access to all information, of which we are aware, that is relevant to the preparation and fair presentation of the financial statements, such as financial records and related data, documentation, and other matters and all audit or relevant monitoring reports, if any, received from funding sources.
  - b) Additional information that you have requested from us for the purpose of the audit.
  - c) Unrestricted access to persons within the entity from whom you determined it necessary to obtain audit evidence.

- d) Minutes of the meetings of Board of Directors or summaries of actions of recent meetings for which minutes have not yet been prepared.
- 11) We have disclosed to you results of our assessment of the risk that the financial statements may be materially misstated as a result of fraud.
- 12) We have no knowledge of any fraud or suspected fraud that affects the entity and involves:
  - a) Management,
  - b) Employees who have significant roles in internal control, or
  - c) Others where the fraud could have a material effect on the financial statements.
- 13) We have no knowledge of any allegations of fraud or suspected fraud affecting the entity received in communications from employees, former employees, regulators, or others.
- 14) We have no knowledge of known instances of noncompliance or suspected noncompliance with provisions of laws, regulations, contracts, or grant agreements, or abuse, whose effects should be considered when preparing financial statements.
- 15) There are no related parties or related party relationships and transactions, including side agreements, of which we are aware.

**Other**

- 16) There have been no communications from regulatory agencies concerning noncompliance with, or deficiencies in, financial reporting practices.
- 17) We have taken timely and appropriate steps to remedy fraud, noncompliance with provisions of laws, regulations, contracts or grant agreements, or abuse that you have reported to us.
- 18) We have a process to track the status of audit findings and recommendations.
- 19) We have provided our views on reported findings, conclusions, and recommendations, as well as our planned corrective actions, for our report.
- 20) The Authority has no plans or intentions that may materially affect the carrying value or classification of assets, deferred outflows of resources, liabilities, deferred inflows of resources or net position.

- 21) We are responsible for compliance with federal, state, and local laws, regulations, and provisions of contracts and grant agreements applicable to us, including tax or debt limits, debt contracts, and IRS arbitrage regulations; and we have identified and disclosed to you all federal, state, and local laws, regulations and provisions of contracts and grant agreements that we believe have a direct and material effect on the determination of financial statement amounts or other financial data significant to the audit objectives, including legal and contractual provisions for reporting specific activities in separate funds.
- 22) There are no:
- a) Violations or possible violations of budget ordinances, federal, state, and local laws or regulations (including those pertaining to adopting, approving and amending budgets), provisions of contracts and grant agreements, tax or debt limits, and any related debt covenants whose effects should be considered for disclosure in the financial statements or as a basis for recording a loss contingency, or for reporting on noncompliance, except those already disclosed in the financial statement, if any.
  - b) Other liabilities or gain or loss contingencies that are required to be accrued or disclosed by GAAP.
  - c) Charges and/or rates being charged to customers other than the charges and/or rates as authorized by the applicable authoritative body.
  - d) Violations of restrictions placed on revenues as a result of bond resolution covenants such as revenue distribution or debt service funding.
- 23) The Authority has satisfactory title to all owned assets, and there are no liens or encumbrances on such assets nor has any asset been pledged as collateral.
- 24) The Authority has complied with all aspects of contractual agreements that would have a material effect on the financial statement in the event of noncompliance.
- 25) The financial statements properly classify all funds and activities.
- 26) Components of net position (net investment in capital assets; restricted; and unrestricted) are properly classified and, if applicable, approved.
- 27) The Authority has no derivative financial instruments such as contracts that could be assigned to someone else or net settled, interest rate swaps, collars or caps.
- 28) Provisions for uncollectible receivables, if any, have been properly identified and recorded.

- 29) Interfund, internal, and intra-entity activity and balances have been appropriately classified and reported.
- 30) Deposits and investments are properly classified, valued, and disclosed (including risk disclosures, collateralization agreements, valuation methods, and key inputs, as applicable).
- 31) Provision, when material, has been made to reduce excess or obsolete inventories to their estimated net realizable value.
- 32) Capital assets, including infrastructure and intangible assets, are properly capitalized, reported, and, if applicable, depreciated/amortized. Any known impairments have been recorded and disclosed.
- 33) Tax-exempt bonds issued have retained their tax-exempt status.
- 34) We have appropriately disclosed the Authority's policy regarding whether to first apply restricted or unrestricted resources when an expense is incurred for purposes for which both restricted and unrestricted net position are available and have determined that net position was properly recognized under the policy.
- 35) We acknowledge our responsibility for the required supplementary information (RSI). The RSI is measured and presented within prescribed guidelines and the methods of measurement and presentation have not changed from those used in the prior period. We have disclosed to you any significant assumptions and interpretations underlying the measurement and presentation of the RSI.
- 36) With respect to the supplementary information(SI):
  - a) We acknowledge our responsibility for presenting the SI in accordance with GAAP, and we believe the SI, including its form and content, is fairly presented in accordance with GAAP, as applicable. The methods of measurement and presentation of the SI have not changed from those used in the prior period, and we have disclosed to you any significant assumptions or interpretations underlying the measurement and presentation of the supplementary information.
  - b) If the SI is not presented with the audited financial statements, we will make the audited financial statements readily available to the intended users of the supplementary information no later than the date we issue the supplementary information and the auditor's report thereon.

- 37) We have evaluated and considered all debt reported as defeased in substance and believe all material amounts held in trust that are not expressly prohibited from substitution in monetary assets that are not essentially risk-free are properly disclosed.
- 38) We have implemented Governmental Accounting Standards Board (GASB) Statement No. 91, *Conduit Debt Obligations*, and believe that all required disclosures and accounting considerations have been identified and properly classified in the financial statements in compliance with the Standard.
- 39) We have evaluated GASB Statement No. 94, *Public-Private and Public-Public Partnerships and Availability Payment Arrangements*, and did not identify any existing transactions that the standard was applicable.
- 40) We have implemented GASB Statement No. 100, *Accounting Changes and Error Corrections-an amendment of GASB Statement No. 62*, however there were no changes or corrections to be reported or disclosed in the current period.
- 41) We have identified any leases or other contracts that are required to be reported as leases or SBITA and are in agreement with the key assumptions used in the measurement of any lease or subscription related assets, liabilities or deferred inflows of resources.
- 42) We are responsible for the estimation methods and assumptions used in measuring assets and liabilities reported or disclosed at fair value, including information obtained from brokers, pricing services or third parties. Our valuation methodologies have been consistently applied from period to period. The fair value measurements reported or disclosed represent our best estimate of fair value as the measurement date in accordance with the requirements of GASB 72 – *Fair Value Measurement*. In addition, our disclosures related to fair value measurements are consistent with the objectives outlined in GASB 72. We have evaluated the fair value information provided to us by brokers, pricing services or other parties that has been used in the financial statements and believe this information to be reliable and consistent with the requirements.
- 43) We have evaluated the existing outstanding debt for potential arbitrage liability. No liability has been recorded as no known liability exists.
- 44) We have evaluated existing contracts and agreements and are responsible for the accounting and financial reporting of any related capital or intangible assets, liabilities, receivables or deferred items in compliance with generally accepted accounting principles.
- 45) We are responsible for compliance with the funding requirements and the flow of funds as outlined in the Master Bond Ordinance.

- 46) We are responsible for the fair presentation of the Authority's net pension liability based upon calculations by the City of Detroit General Employees' Retirement System (GRS) and related amounts. We appropriately allocated the net pension liability based on the assumptions in the lease agreements, pension agreement and the allocation letter signed by the Authority's Chief Executive Officer and the Detroit Water & Sewerage Department (DWSD) Director on January 24, 2017. We have properly disclosed our special funding situation under GASB 68, Accounting and Financial Reporting for Pension Plans. We have reviewed the information provided by GRS for inclusions in the Authority's financial statements.
- 47) The auditing standards define an annual report as "a document, or combination of documents, typically prepared on an annual basis by management or those charged with governance in accordance with law, regulation, or custom, the purpose of which is to provide owners or similar stakeholders with information on the entity's operations and the financial results and financial position as set out in the financial statements." Among other items, an annual report contains, accompanies, or incorporates by reference the financial statements and the auditors' report thereon. The annual comprehensive financial report (ACFR) is an annual report. We have provided you with the final version of the annual report. There are no material inconsistencies between the financial statements and any other information contained within the annual report.
- 48) With respect to federal award programs:
- a) We are responsible for understanding and complying with and have complied with the requirements of the Single Audit Act Amendments of 1996, *OMB's Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance), including requirements relating to preparation of the schedule of expenditures of federal awards (SEFA).
  - b) We acknowledge our responsibility for preparing and presenting the SEFA and related disclosures in accordance with the requirements of the Uniform Guidance and we believe the SEFA, including its form and content, is fairly presented in accordance with the Uniform Guidance. The methods of measurement and presentation of the SEFA have not changed from those used in the prior period and we have disclosed to you any significant assumptions and interpretations underlying the measurement and presentation of the SEFA.
  - c) If the SEFA is not presented with the audited financial statements, we will make the audited financial statements readily available to the intended users of the SEFA no later than the date we issue the SEFA and the auditors' report thereon.



- d) We have identified and disclosed to you all of our government programs and related activities subject to the Uniform Guidance and included in the SEFA, expenditures made during the audit period for all awards provided by federal agencies in the form of grants, federal cost reimbursement contracts, loans, loan guarantees, property (including donated surplus property), cooperative agreements, interest subsidies, insurance, food commodities, direct appropriations, and other direct assistance.
- e) We are responsible for understanding and complying with, and have complied with the requirements of laws, regulations, and the provisions of contracts and grant agreements related to each of our federal programs and have identified and disclosed to you the requirements of laws, regulations, and the provisions of contracts and grant agreements that are considered to have a direct and material effect on each major federal program.
- f) We are responsible for establishing and maintaining, and have established and maintained, effective internal control over compliance for federal programs that provide reasonable assurance that we are administering our federal awards in compliance with laws, regulations, and the provisions of contracts and grant agreements that could have a material effect on our federal programs. We believe the internal control system is adequate and is functioning as intended. Also, no changes have been made in the internal control over compliance or other factors to the date of this letter that might significantly affect internal control, including any corrective action taken with regard to control deficiencies reported in the schedule of findings and questioned costs.
- g) We have made available to you all contracts and grant agreements (including amendments, if any) and any other correspondence with federal agencies or pass-through entities relevant to the programs and related activities.
- h) We have received no requests from a federal agency to audit one or more specific programs as a major program.
- i) We have complied with the direct and material compliance requirements including when applicable, those set forth in the OMB Compliance Supplement relating to federal awards.
- j) We have disclosed any communications from grantors and pass-through entities concerning possible noncompliance with the direct and material compliance requirements, including communications received from the end of the period covered by the compliance audit to the date of the auditors' report.
- k) Amounts claimed or used for matching were determined in accordance with relevant guidelines in the Uniform Guidance.

- l) We have disclosed to you our interpretation of compliance requirements that may have varying interpretations.
- m) We have made available to you all documentation related to the compliance with the direct and material compliance requirements, including information related to federal program financial reports and claims for advances and reimbursements.
- n) We have disclosed to you the nature of any subsequent events that provide additional evidence about conditions that existed at the end of the reporting period affecting noncompliance during the reporting period.
- o) We are not aware of any instances of noncompliance with direct and material compliance requirements that occurred subsequent to the period covered by the auditors' report.
- p) No changes have been made in internal control over compliance or other factors that might significantly affect internal control, subsequent to the date as of which compliance was audited.
- q) Federal program financial reports and claims for advances and reimbursements are supported by the books and records from which the financial statements have been prepared.
- r) The copies of federal program financial reports provided you are true copies of the reports submitted, or electronically transmitted, to the respective federal agency or pass-through entity, as applicable.
- s) We have monitored subrecipients to determine that they have expended pass-through assistance in accordance with applicable laws and regulations and have met the requirements of the Uniform Guidance.
- t) We have taken appropriate action, including issuing management decisions, on a timely basis after receipt of subrecipients' auditors' reports that identified noncompliance with laws, regulations, or the provisions of contracts or grant agreements to ensure that subrecipients have taken the appropriate and timely corrective action on findings.
- u) We have considered the results of subrecipient audits and made any necessary adjustments to our books and records.
- v) We have charged costs to federal awards in accordance with applicable cost principles.

- w) We are responsible for and have accurately prepared the summary schedule of prior audit findings to include all findings required to be included by the Uniform Guidance *and* we have provided you with all information on the status of the follow-up on prior audit findings by federal awarding agencies and pass-through entities, including all management decisions.
- x) We are responsible for and have ensured the reporting package does not contain protected personally identifiable information.
- y) We are responsible for and have accurately prepared the auditee section of the Data Collection Form as required by the Uniform Guidance.

Sincerely,

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

Nicolette N. Bateson, CPA, Chief Financial Officer/ Treasurer

## Client service team



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# Accounting changes relevant to Great Lakes Water Authority

## Future accounting standards update

GASB Statement Number	Description	Potentially Impacts you	Effective Date
101	Compensated Absences		6/30/25

Further information on upcoming [GASB pronouncements](#).

## Updated accounting and reporting for compensated absences

The Governmental Accounting Standards Board (GASB) issued its Statement No. 101, *Compensated Absences*, in June 2022. The objective of GASB 101 is to update the recognition and measurement guidance for compensated absences for state & local government employers. It supersedes GASB No. 16, *Accounting for Compensated Absences*, issued in 1992, as well as earlier guidance, and addresses changes resulting from the types of leave now being offered. GASB 101 is effective for fiscal years beginning after December 15, 2023 (i.e., June 30, 2025 year-end reporting entities).

GASB 101 more appropriately reflects a liability *when* a government incurs an obligation for compensated absences and will improve comparability of reporting between governments that offer different types of leave. It requires that liabilities be recognized for (1) leave that has not been used, and (2) leave that has been used but not yet paid in cash or settled-up via non-cash means. Compensated absences are defined as leave for which employees may receive one or more of the following:

- Cash payments when the leave is used for time off;
- Other cash payments, such as payment for unused leave upon termination of employment, or;
- Noncash settlements, such as conversion to defined benefit postemployment benefits.

Examples of compensated absences provided in GASB 101 include vacation, sick leave, paid time off (PTO), holidays, parental leave, bereavement leave, and certain types of sabbatical leave. Payment or settlement of compensated absences could occur during employment, or upon termination of employment. GASB 101 does not apply to benefits that are within the scope of GASB 47, *Accounting for Termination Benefits*.

GASB 101 requires that a liability should be recognized for leave that has not been used if all of the following are true:

- The leave is attributable to services already rendered;
- The leave accumulates, and;
- The leave is “more likely than not” (i.e., likelihood of more than 50%) to be used for time off or otherwise paid in cash or settled through noncash means (1 provides factors to assess this criteria).

GASB 101 requires liabilities for compensated absences to be recognized in financial statements prepared using the economic resources measurement focus equal to the amount of leave that has not yet been used and leave that has been used but not yet paid or settled. GASB 101 did not change the report for financial statements prepared using the current financial resources measurement focus (i.e., governmental funds).

Other changes in financial statement disclosures include the change in compensated absences liability can now be disclosed as a net change, rather than gross increases/decreases in the liability. Also, governments are no longer required to disclose which fund has typically liquidated the liability.

We recommend that governments begin to review the guidance contained in GASB 101 within the context of your existing compensated absences policies and accounting practices, in order to be better informed in terms of the information that you will need for this implementation.

## Two-way audit communications

As part of our audit of your financial statements, we are providing communications to you throughout the audit process. Auditing requirements provide for two-way communication and are important in assisting the auditor and you with more information relevant to the audit.

As this past audit is concluded, we use what we have learned to begin the planning process for next year's audit. It is important that you understand the following points about the scope and timing of our next audit:

- a. We address the significant risks of material misstatement, whether due to fraud or error, through our detailed audit procedures.
- b. We will obtain an understanding of the five components of internal control sufficient to assess the risk of material misstatement of the financial statements whether due to error or fraud, and to design the nature, timing and extent of further audit procedures. We will obtain a sufficient understanding by performing risk assessment procedures to evaluate the design of controls relevant to an audit of financial statements and to determine whether they have been implemented. We will use such knowledge to:
  - Identify types of potential misstatements.
  - Consider factors that affect the risks of material misstatement.
  - Design tests of controls, when applicable, and substantive procedures.
- c. We will not express an opinion on the effectiveness of internal control over financial reporting or compliance with laws, regulations and provisions of contracts or grant programs. For audits performed in accordance with *Government Auditing Standards*, our report will include a paragraph that states that the purpose of the report is solely to describe the scope of testing of internal control over financial reporting and compliance and the result of that testing and not to provide an opinion on the effectiveness of internal control over financial reporting or on compliance and that the report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering internal control over financial reporting and compliance. The paragraph will also state that the report is not suitable for any other purpose.
- d. The concept of materiality recognizes that some matters, either individually or in the aggregate, are important for fair presentation of financial statements in conformity with generally accepted accounting principles while other matters are not important. In performing the audit, we are concerned with matters that, either individually or in the aggregate, could be material to the financial statements. Our responsibility is to plan and perform the audit to obtain reasonable assurance that material misstatements, whether caused by errors or fraud, are detected.

Our audit will be performed in accordance with auditing standards generally accepted in the United States of America and *Government Auditing Standards*, *OMB's Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance).

We will not express an opinion on the effectiveness of internal control over financial reporting or compliance with laws, regulations, and provisions of contracts or grant programs. For audits done in accordance with *Government Auditing Standards*, the Uniform Guidance, our report will include a paragraph that states that the purpose of the report is solely to describe (a) the scope of testing of internal control over financial reporting and compliance and the result of that testing and not to provide an opinion on the effectiveness of internal control over financial reporting or on compliance, (b) the scope of testing internal control over compliance for major programs and major program compliance and the result of that testing and to provide an opinion on compliance but not to provide an opinion on the effectiveness of internal control over compliance and (c) that the report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering internal control over financial reporting and compliance and the Uniform Guidance, in considering internal control over compliance and major program compliance. The paragraph will also state that the report is not suitable for any other purpose.

We are very interested in your views regarding certain matters. Those matters are listed here:

- a. We typically will communicate with your top level of management unless you tell us otherwise.
- b. We understand that the governing board has the responsibility to oversee the strategic direction of your organization, as well as the overall accountability of the entity. Management has the responsibility for achieving the objectives of the entity.
- c. We need to know your views about your organization's objectives and strategies, and the related business risks that may result in material misstatements.
- d. We anticipate that the Authority will receive an unmodified opinion on its financial statements.
- e. Which matters do you consider warrant particular attention during the audit, and are there any areas where you request additional procedures to be undertaken?
- f. Have you had any significant communications with regulators or grantor agencies?
- g. Are there other matters that you believe are relevant to the audit of the financial statements?

Also, is there anything that we need to know about the attitudes, awareness and actions of the governing body concerning:

- a. The entity's internal control and its importance in the entity, including how those charged with governance oversee the effectiveness of internal control?
- b. The detection or the possibility of fraud?

We also need to know if you have taken actions in response to developments in financial reporting, laws, accounting standards, governance practices, or other related matters, or in response to previous communications with us.

With regard to the timing of our audit, here is some general information. If necessary, we may do preliminary financial audit work during the months of August or September. Our final financial fieldwork is scheduled during the fall to best coincide with your readiness and report deadlines. After fieldwork, we wrap up our financial audit procedures at our office and may issue drafts of our report for your review. Final copies of our report and other communications are issued after approval by your staff.

Keep in mind that while this communication may assist us with planning the scope and timing of the audit, it does not change the auditor's sole responsibility to determine the overall audit strategy and the audit plan, including the nature, timing and extent of procedures necessary to obtain sufficient appropriate audit evidence.

We realize that you may have questions on what this all means, or wish to provide other feedback. We welcome the opportunity to hear from you.



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[bakertilly.com](http://bakertilly.com)

December 13, 2023

Great Lakes Water Authority  
735 Randolph Street, 15<sup>th</sup> Floor  
Detroit, MI 48226

To the Great Lakes Water Authority Audit Committee:

We are presenting, for your consideration, our comments and management recommendations which were identified during our audit of the financial statements of the Great Lakes Water Authority (Authority) for the year ended June 30, 2023.

This letter, by its nature, focuses on improvements and does not comment on the many strong areas of the Authority's systems and procedures. The comments and suggestions are not intended to reflect in any way on the integrity or ability of the personnel of Authority's operations. Additionally, this letter is meant to provide management with information which may be useful when considering operating enhancements to your operation and are provided in the spirit of advisory assistance. The comments in this report are not required as part of our annual audit but are offered only as a process to assist your operations.

### **Information Technology Overview**

The focus for the 2023 Information Technology (IT) review was to continue developing our understanding of the general computer control (GCC) environment at Authority and perform detailed tests as part of our annual audit of the financial statements. This document is intended to summarize the results of our review and provide any additional guidance regarding the IT environment at Authority.

The GCC review utilized the IT Risk Assessment Standards framework to obtain a more detailed understanding of the Authority IT control environment. As part of the GCC review, the following areas related to the IT function were reviewed:

- > New system implementations and significant upgrades
- > Application changes
- > Database changes
- > Server operating system changes
- > Application access
- > Privileged access
- > Authentication
- > User account management, new and modified access
- > User account terminations
- > User access reviews
- > Backups
- > Interfaces and automated processing

Audit Committee  
Great Lakes Water Authority

December 13, 2023  
Page 2

### General Computer Control Findings

Below lists some of the specific GCC findings that did not warrant a management letter comment but should be considered by the Authority.

Control Objective	Observation	Recommendation to Address Observation	Management's Response
<b>Deprovisioning</b>	Although the Authority has a procedure for removing user access, there is not a policy in place stating how timely a separated employee or contractor access should be removed. Baker Tilly viewed a ticket to remove a contractor's access and noted that the contractor's last day was 1/23/23 and his access was not removed until 5/23/23.	We recommend the Authority put in place a formal policy to ensure timely removal of access for separated employees and contractors. In addition, user access reviews should be performed to ensure all separated accounts have been deprovisioned.	By the end of third quarter FY 2024, the Authority will put in place a formal policy to ensure timely removal of access for separated employees and contractors. In addition, GLWA will also perform user access reviews to ensure all separated accounts have been deprovisioned.
<b>User Access Reviews</b>	User access reviews were not performed in FY23 for Ceridian Dayforce or Active Directory.	We recommend the Authority perform access reviews on an annual basis to revalidate access rights are appropriate based on functional responsibilities and segregation of duties. Reviewers should sign off indicating completion of the review, and any identified discrepancies should be resolved.	Users with administrative access are reviewed. We will modify the process going forward to address this expanded recommendation by third quarter Fiscal Year 2024.

We appreciate the courtesy and assistance extended to us by all your personnel during the audit. If you have any questions on our comments, or if we can offer our services in any other way during the year, please do not hesitate to contact us. Thank you for allowing us to serve you.

Sincerely,

BAKER TILLY US, LLP



December 13, 2023

**DRAFT – For Audit Committee Review**

Baker Tilly US, LLP  
4807 Innovate Ln  
PO Box 7398  
Madison, WI 53707

Dear Baker Tilly US, LLP:

We are providing this letter in connection with your audit of the financial statements of the Great Lakes Water Authority (Authority) as of June 30, 2023 and for the year then ended for the purpose of expressing opinions as to whether the financial statements present fairly, in all material respects, the financial position of the Authority, each major enterprise fund, and the respective changes in financial position and cash flows, where applicable, in conformity with generally accepted accounting principles (GAAP) in the United States of America. We confirm that we are responsible for the fair presentation of the previously mentioned financial statements in conformity with GAAP. We are also responsible for adopting sound accounting policies, establishing and maintaining internal control over financial reporting, and preventing and detecting fraud.

Certain representations in this letter are described as being limited to matters that are material. Items are considered material, regardless of size, if they involve an omission or misstatement of accounting information that, in the light of surrounding circumstances, makes it probable that the judgment of a reasonable person relying on the information would be changed or influenced by the omission or misstatement. An omission or misstatement that is monetarily small in amount could be considered material as a result of qualitative factors.

We confirm, to the best of our knowledge and belief, the following representations made to you during your audit.

**Financial Statements**

- 1) We have fulfilled our responsibilities, as set out in the terms of the audit engagement letter.
- 2) The financial statements referred to above are fairly presented in conformity with GAAP and include all properly classified funds and other financial information of the Authority required by GAAP to be included in the financial reporting entity.

- 3) We acknowledge our responsibility for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.
- 4) We acknowledge our responsibility for the design, implementation, and maintenance of internal control to prevent and detect fraud.
- 5) Significant assumptions we used in making accounting estimates, including those measured at fair value, if any, are reasonable.
- 6) All events subsequent to the date of the financial statements and for which GAAP require adjustment or disclosure have been adjusted or disclosed. No other events, including instances of noncompliance, have occurred subsequent to the financial statement date and through the date of this letter that would require adjustment to or disclosure in the aforementioned financial statements or in the schedule of findings and questioned costs.
- 7) All material transactions have been recorded in the accounting records and are reflected in the financial statements and the schedule of expenditures of federal and state awards.
- 8) The effects of all known actual or possible litigation, claims, and assessments whose effects should be considered when preparing the financial statements, have been accounted for and disclosed in accordance with GAAP. There are no unasserted litigation, claims or assessments that our lawyer has advised us are probable of assertion.
- 9) Guarantees, whether written or oral, under which the Authority is contingently liable, if any, have been properly recorded or disclosed.

### **Information Provided**

- 10) We have provided you with:
  - a) Access to all information, of which we are aware, that is relevant to the preparation and fair presentation of the financial statements, such as financial records and related data, documentation, and other matters and all audit or relevant monitoring reports, if any, received from funding sources.
  - b) Additional information that you have requested from us for the purpose of the audit.
  - c) Unrestricted access to persons within the entity from whom you determined it necessary to obtain audit evidence.

- d) Minutes of the meetings of Board of Directors or summaries of actions of recent meetings for which minutes have not yet been prepared.
- 11) We have disclosed to you results of our assessment of the risk that the financial statements may be materially misstated as a result of fraud.
- 12) We have no knowledge of any fraud or suspected fraud that affects the entity and involves:
  - a) Management,
  - b) Employees who have significant roles in internal control, or
  - c) Others where the fraud could have a material effect on the financial statements.
- 13) We have no knowledge of any allegations of fraud or suspected fraud affecting the entity received in communications from employees, former employees, regulators, or others.
- 14) We have no knowledge of known instances of noncompliance or suspected noncompliance with provisions of laws, regulations, contracts, or grant agreements, or abuse, whose effects should be considered when preparing financial statements.
- 15) There are no related parties or related party relationships and transactions, including side agreements, of which we are aware.

**Other**

- 16) There have been no communications from regulatory agencies concerning noncompliance with, or deficiencies in, financial reporting practices.
- 17) We have taken timely and appropriate steps to remedy fraud, noncompliance with provisions of laws, regulations, contracts or grant agreements, or abuse that you have reported to us.
- 18) We have a process to track the status of audit findings and recommendations.
- 19) We have provided our views on reported findings, conclusions, and recommendations, as well as our planned corrective actions, for our report.
- 20) The Authority has no plans or intentions that may materially affect the carrying value or classification of assets, deferred outflows of resources, liabilities, deferred inflows of resources or net position.

- 21) We are responsible for compliance with federal, state, and local laws, regulations, and provisions of contracts and grant agreements applicable to us, including tax or debt limits, debt contracts, and IRS arbitrage regulations; and we have identified and disclosed to you all federal, state, and local laws, regulations and provisions of contracts and grant agreements that we believe have a direct and material effect on the determination of financial statement amounts or other financial data significant to the audit objectives, including legal and contractual provisions for reporting specific activities in separate funds.
- 22) There are no:
- a) Violations or possible violations of budget ordinances, federal, state, and local laws or regulations (including those pertaining to adopting, approving and amending budgets), provisions of contracts and grant agreements, tax or debt limits, and any related debt covenants whose effects should be considered for disclosure in the financial statements or as a basis for recording a loss contingency, or for reporting on noncompliance, except those already disclosed in the financial statement, if any.
  - b) Other liabilities or gain or loss contingencies that are required to be accrued or disclosed by GAAP.
  - c) Charges and/or rates being charged to customers other than the charges and/or rates as authorized by the applicable authoritative body.
  - d) Violations of restrictions placed on revenues as a result of bond resolution covenants such as revenue distribution or debt service funding.
- 23) The Authority has satisfactory title to all owned assets, and there are no liens or encumbrances on such assets nor has any asset been pledged as collateral.
- 24) The Authority has complied with all aspects of contractual agreements that would have a material effect on the financial statement in the event of noncompliance.
- 25) The financial statements properly classify all funds and activities.
- 26) Components of net position (net investment in capital assets; restricted; and unrestricted) are properly classified and, if applicable, approved.
- 27) The Authority has no derivative financial instruments such as contracts that could be assigned to someone else or net settled, interest rate swaps, collars or caps.
- 28) Provisions for uncollectible receivables, if any, have been properly identified and recorded.

- 29) Interfund, internal, and intra-entity activity and balances have been appropriately classified and reported.
- 30) Deposits and investments are properly classified, valued, and disclosed (including risk disclosures, collateralization agreements, valuation methods, and key inputs, as applicable).
- 31) Provision, when material, has been made to reduce excess or obsolete inventories to their estimated net realizable value.
- 32) Capital assets, including infrastructure and intangible assets, are properly capitalized, reported, and, if applicable, depreciated/amortized. Any known impairments have been recorded and disclosed.
- 33) Tax-exempt bonds issued have retained their tax-exempt status.
- 34) We have appropriately disclosed the Authority's policy regarding whether to first apply restricted or unrestricted resources when an expense is incurred for purposes for which both restricted and unrestricted net position are available and have determined that net position was properly recognized under the policy.
- 35) We acknowledge our responsibility for the required supplementary information (RSI). The RSI is measured and presented within prescribed guidelines and the methods of measurement and presentation have not changed from those used in the prior period. We have disclosed to you any significant assumptions and interpretations underlying the measurement and presentation of the RSI.
- 36) With respect to the supplementary information (SI):
  - a) We acknowledge our responsibility for presenting the SI in accordance with GAAP, and we believe the SI, including its form and content, is fairly presented in accordance with GAAP, as applicable. The methods of measurement and presentation of the SI have not changed from those used in the prior period, and we have disclosed to you any significant assumptions or interpretations underlying the measurement and presentation of the supplementary information.
  - b) If the SI is not presented with the audited financial statements, we will make the audited financial statements readily available to the intended users of the supplementary information no later than the date we issue the supplementary information and the auditor's report thereon.

- 37) We have evaluated and considered all debt reported as defeased in substance and believe all material amounts held in trust that are not expressly prohibited from substitution in monetary assets that are not essentially risk-free are properly disclosed.
- 38) We have implemented Governmental Accounting Standards Board (GASB) Statement No. 91, *Conduit Debt Obligations*, and believe that all required disclosures and accounting considerations have been identified and properly classified in the financial statements in compliance with the Standard.
- 39) We have evaluated GASB Statement No. 94, *Public-Private and Public-Public Partnerships and Availability Payment Arrangements*, and did not identify any existing transactions that the standard was applicable.
- 40) We have implemented GASB Statement No. 100, *Accounting Changes and Error Corrections-an amendment of GASB Statement No. 62*, however there were no changes or corrections to be reported or disclosed in the current period.
- 41) We have identified any leases or other contracts that are required to be reported as leases or SBITA and are in agreement with the key assumptions used in the measurement of any lease or subscription related assets, liabilities or deferred inflows of resources.
- 42) We are responsible for the estimation methods and assumptions used in measuring assets and liabilities reported or disclosed at fair value, including information obtained from brokers, pricing services or third parties. Our valuation methodologies have been consistently applied from period to period. The fair value measurements reported or disclosed represent our best estimate of fair value as the measurement date in accordance with the requirements of GASB 72 – *Fair Value Measurement*. In addition, our disclosures related to fair value measurements are consistent with the objectives outlined in GASB 72. We have evaluated the fair value information provided to us by brokers, pricing services or other parties that has been used in the financial statements and believe this information to be reliable and consistent with the requirements.
- 43) We have evaluated the existing outstanding debt for potential arbitrage liability. No liability has been recorded as no known liability exists.
- 44) We have evaluated existing contracts and agreements and are responsible for the accounting and financial reporting of any related capital or intangible assets, liabilities, receivables or deferred items in compliance with generally accepted accounting principles.
- 45) We are responsible for compliance with the funding requirements and the flow of funds as outlined in the Master Bond Ordinance.



- 46) We are responsible for the fair presentation of the Authority's net pension liability based upon calculations by the City of Detroit General Employees' Retirement System (GRS) and related amounts. We appropriately allocated the net pension liability based on the assumptions in the lease agreements, pension agreement and the allocation letter signed by the Authority's Chief Executive Officer and the Detroit Water & Sewerage Department (DWSD) Director on January 24, 2017. We have properly disclosed our special funding situation under GASB 68, Accounting and Financial Reporting for Pension Plans. We have reviewed the information provided by GRS for inclusions in the Authority's financial statements.
- 47) The auditing standards define an annual report as "a document, or combination of documents, typically prepared on an annual basis by management or those charged with governance in accordance with law, regulation, or custom, the purpose of which is to provide owners or similar stakeholders with information on the entity's operations and the financial results and financial position as set out in the financial statements." Among other items, an annual report contains, accompanies, or incorporates by reference the financial statements and the auditors' report thereon. The annual comprehensive financial report (ACFR) is an annual report. We have provided you with the final version of the annual report. There are no material inconsistencies between the financial statements and any other information contained within the annual report.
- 48) With respect to federal award programs:
- a) We are responsible for understanding and complying with and have complied with the requirements of the Single Audit Act Amendments of 1996, *OMB's Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance), including requirements relating to preparation of the schedule of expenditures of federal awards (SEFA).
  - b) We acknowledge our responsibility for preparing and presenting the SEFA and related disclosures in accordance with the requirements of the Uniform Guidance and we believe the SEFA, including its form and content, is fairly presented in accordance with the Uniform Guidance. The methods of measurement and presentation of the SEFA have not changed from those used in the prior period and we have disclosed to you any significant assumptions and interpretations underlying the measurement and presentation of the SEFA.
  - c) If the SEFA is not presented with the audited financial statements, we will make the audited financial statements readily available to the intended users of the SEFA no later than the date we issue the SEFA and the auditors' report thereon.

- d) We have identified and disclosed to you all of our government programs and related activities subject to the Uniform Guidance and included in the SEFA, expenditures made during the audit period for all awards provided by federal agencies in the form of grants, federal cost reimbursement contracts, loans, loan guarantees, property (including donated surplus property), cooperative agreements, interest subsidies, insurance, food commodities, direct appropriations, and other direct assistance.
- e) We are responsible for understanding and complying with, and have complied with the requirements of laws, regulations, and the provisions of contracts and grant agreements related to each of our federal programs and have identified and disclosed to you the requirements of laws, regulations, and the provisions of contracts and grant agreements that are considered to have a direct and material effect on each major federal program.
- f) We are responsible for establishing and maintaining, and have established and maintained, effective internal control over compliance for federal programs that provide reasonable assurance that we are administering our federal awards in compliance with laws, regulations, and the provisions of contracts and grant agreements that could have a material effect on our federal programs. We believe the internal control system is adequate and is functioning as intended. Also, no changes have been made in the internal control over compliance or other factors to the date of this letter that might significantly affect internal control, including any corrective action taken with regard to control deficiencies reported in the schedule of findings and questioned costs.
- g) We have made available to you all contracts and grant agreements (including amendments, if any) and any other correspondence with federal agencies or pass-through entities relevant to the programs and related activities.
- h) We have received no requests from a federal agency to audit one or more specific programs as a major program.
- i) We have complied with the direct and material compliance requirements including when applicable, those set forth in the OMB Compliance Supplement relating to federal awards.
- j) We have disclosed any communications from grantors and pass-through entities concerning possible noncompliance with the direct and material compliance requirements, including communications received from the end of the period covered by the compliance audit to the date of the auditors' report.
- k) Amounts claimed or used for matching were determined in accordance with relevant guidelines in the Uniform Guidance.

- l) We have disclosed to you our interpretation of compliance requirements that may have varying interpretations.
- m) We have made available to you all documentation related to the compliance with the direct and material compliance requirements, including information related to federal program financial reports and claims for advances and reimbursements.
- n) We have disclosed to you the nature of any subsequent events that provide additional evidence about conditions that existed at the end of the reporting period affecting noncompliance during the reporting period.
- o) We are not aware of any instances of noncompliance with direct and material compliance requirements that occurred subsequent to the period covered by the auditors' report.
- p) No changes have been made in internal control over compliance or other factors that might significantly affect internal control, subsequent to the date as of which compliance was audited.
- q) Federal program financial reports and claims for advances and reimbursements are supported by the books and records from which the financial statements have been prepared.
- r) The copies of federal program financial reports provided you are true copies of the reports submitted, or electronically transmitted, to the respective federal agency or pass-through entity, as applicable.
- s) We have monitored subrecipients to determine that they have expended pass-through assistance in accordance with applicable laws and regulations and have met the requirements of the Uniform Guidance.
- t) We have taken appropriate action, including issuing management decisions, on a timely basis after receipt of subrecipients' auditors' reports that identified noncompliance with laws, regulations, or the provisions of contracts or grant agreements to ensure that subrecipients have taken the appropriate and timely corrective action on findings.
- u) We have considered the results of subrecipient audits and made any necessary adjustments to our books and records.
- v) We have charged costs to federal awards in accordance with applicable cost principles.

- w) We are responsible for and have accurately prepared the summary schedule of prior audit findings to include all findings required to be included by the Uniform Guidance *and* we have provided you with all information on the status of the follow-up on prior audit findings by federal awarding agencies and pass-through entities, including all management decisions.
- x) We are responsible for and have ensured the reporting package does not contain protected personally identifiable information.
- y) We are responsible for and have accurately prepared the auditee section of the Data Collection Form as required by the Uniform Guidance.

Sincerely,

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

Nicolette N. Bateson, CPA, Chief Financial Officer/ Treasurer



## FY 2023 Annual Financial Results

Audit Committee Meeting | December 8, 2023

Board of Directors Workshop | December 13, 2023

Financial Services Area

# Annual Audit Results



## Annual Audit Results – Key Highlights

- Audit Firm is Baker Tilly
  - Audit Services are bid every three years
  - Baker Tilly was selected by the Audit Committee and Approved by the Board of Directors in April 2022
- Great News! Unqualified opinion with no auditor adjustments for both the a) Annual Comprehensive Financial Report and b) Statement of Expenses and Federal Awards
  - Also known as a “clean” audit opinion
- Even better! Another year with a clean internal control report
  - Two minor recommendations which are being addressed

# FY 2023 Financial Report Highlights



# ACFR Contents

- ✓ ACFR = Annual Comprehensive Financial Report
- ✓ Prepared in accordance with Generally Accepted Accounting Standards (GAAP)
- ✓ Report content aligns with criteria to apply for the Government Finance Officers Association (GFOA) Certificate of Achievement for Excellence in Financial Reporting (earned by GLWA in prior four years – 2019 through 2022)
- ✓ Key Sections:
  - ✓ Transmittal Letter – page vi
  - ✓ Independent Auditors Report – page 1
  - ✓ Management’s Discussion & Analysis – page 5
  - ✓ Basic Financial Statements (including footnotes) – page 33
  - ✓ Required Supplementary Information – page 95
  - ✓ Supplementary Information – page 101
  - ✓ Statistical Section – page 123
    - ✓ Financial Trends (125), Revenue Capacity (135), Debt Capacity (143), Demographic and Economic Information (157), and Operating Information (161)

## What are the overall financial results for FY 2023?

- ✓ The “Management Discussion & Analysis” in summarizes Basic Financial Statements overall for the combined Water & Sewer Funds

- ✓ Positive “Operating Income” offset set by Nonoperating expenses (largely interest on debt and depreciation)

- ✓ The following slides provide further analysis

Changes in Net Position (\$000)								
Fiscal Year			Change 2023 vs 2022		Change 2022 vs 2021			
2023	2022	2021	Amount	Percent	Amount	Percent		
Operating revenues	\$ 845,686	\$ 816,345	\$ 815,369	\$ 29,341	3.6%	\$ 976	0.1%	
Operating expenses	660,786	609,951	579,460	50,835	8.3%	30,491	5.3%	
Operating income	184,900	206,394	235,909	(21,494)	-10.4%	(29,514)	-12.5%	
Nonoperating revenues (expenses)	(199,359)	(222,552)	(230,424)	(23,193)	-10.4%	(7,871)	-3.4%	
Income (loss) before capital contributions	(14,459)	(16,158)	5,485	1,699	-10.5%	(21,643)	394.6%	
Capital contributions	2,176	6,991	5,960	(4,815)	-68.9%	1,031	-17.3%	
Change in net position	(12,283)	(9,167)	11,445	(3,116)	34.0%	(20,612)	180.1%	
Net position (deficit), beginning of year	(219,299)	(210,132)	(221,578)	(9,167)	-4.4%	11,445	5.2%	
Net position (deficit), end of year	\$ (231,582)	\$ (219,299)	\$ (210,132)	\$ (12,283)	-5.6%	\$ (9,167)	-4.4%	

Source: FY 2023 ACFR Page 11

## Why is there a net deficit? Is there a plan to cure?

- ✓ Net Position remains in a deficit position of \$231.5 million mainly due to the revaluation of assets and acquisition of debt as part of the stand-up of GLWA on January 1, 2016.
- ✓ The increase in asset values results in higher depreciation expense in the short-term.
- ✓ The decrease in “net investment” from last year in capital assets is due to depreciation expense being higher than the debt related reductions.
- ✓ The increase in unrestricted is due to combined increase in unrestricted account activities

	Net Position (\$000)						
	Fiscal Year			Change 2023 vs 2022		Change 2022 vs 2021	
	2023	2022	2021	Amount	Percent	Amount	Percent
Net position (deficit)							
Net investment in capital assets	(336,553)	(194,715)	(302,012)	(141,838)	72.8%	107,297	-35.5%
Restricted for construction	2,181	-	-	2,181	100.0%	-	0.0%
Restricted for debt service	147,436	123,415	114,545	24,022	19.5%	8,870	7.7%
Restricted for payment assistance program	4,653	12,318	11,043	(7,666)	-62.2%	1,275	11.5%
Unrestricted	(49,299)	(160,317)	(33,707)	111,018	-69.2%	(126,609)	375.6%
Total net position (deficit)	<u>\$ (231,582)</u>	<u>\$ (219,299)</u>	<u>\$ (210,132)</u>	<u>\$ (12,283)</u>	5.6%	<u>\$ (9,167)</u>	4.4%

Source: FY 2023 ACER Page 9

Source: FY 2023 ACFR Page 9

# How did the Operating Expense Budget perform?

- ✓ Audited results of \$361 million were materially consistent with the preliminary FY 2023 results distributed in October 2023 of \$358 million – difference is largely due to an estimated accrual for an unbilled amount from a vendor
- ✓ **Overall, GLWA operated within 0.22% of amended budget**
- ✓ Contractual services over budget due to increases in SCADA maintenance and repairs contracts, grounds, transmission mains and specialized service contracts.
- ✓ Utilities are over budget due to increased usage and rates as well as meter repair and replacement resulting in more accurate billing.
- ✓ Chemicals are over budget due to price increases

## SCHEDULE OF OPERATING EXPENSES FOR COMBINED WATER AND SEWER OPERATIONS FUNDS - BUDGET TO ACTUAL For the Year Ended June 30, 2023

	Original Budget	Final Amended Budget	Actual	Variance Over (Under) Amended Budget	Percent Over (Under) Amended Budget
<b>Operating Expenses</b>					
Personnel	\$ 122,144,300	\$ 116,145,400	\$ 114,808,018	\$ (1,337,382)	-1.15%
Contractual services	104,579,200	106,625,000	109,703,247	3,078,247	2.89%
Utilities	51,007,400	74,621,700	77,276,536	2,654,836	3.56%
Chemicals	16,118,600	29,524,800	30,542,063	1,017,263	3.45%
Supplies and other expenses	34,911,800	34,968,700	34,571,711	(396,989)	-1.14%
Capital program allocation	(4,376,200)	(2,135,300)	(2,189,642)	(54,342)	2.54%
Intergovernmental reimbursements	(2,925,000)	(1,570,800)	(4,247,812)	(2,677,012)	170.42%
Centralized services allocation	-	-	-	-	0.00%
Administrative services allocation	-	-	-	-	0.00%
Unallocated reserve	7,440,200	1,496,800	-	(1,496,800)	-100.00%
Total operating expenses before depreciation and amortization financial reporting basis	328,900,300	359,676,300	360,464,121	787,821	
SBITA	-	704,400	704,318	(82)	0.00%
Warehouse lease	-	489,500	489,546	46	0.01%
<b>TOTAL OPERATING EXPENSES BUDGET BASIS</b>	<b>\$ 328,900,300</b>	<b>\$ 360,870,200</b>	<b>\$ 361,657,985</b>	<b>\$ 787,785</b>	<b>0.22%</b>

Source: FY 2023 ACFR Page 112

# Page 72 How did the Water System Revenue Requirements perform?

	Adopted Budget	Amended Budget	Actual	Variance Over (Under) Amended Budget
<b>Revenues</b>				
Revenue from charges				
Suburban wholesale customers [1]	\$ 331,962,000	\$ 333,856,300	\$ 334,141,233	\$ 284,933
Local system charges	22,985,900	22,834,300	22,834,300	-
Total revenue from charges	354,947,900	356,690,600	356,975,533	284,933
Other revenue [2]	175,000	995,000	1,378,706	383,706
Investment earnings [3]				
Restricted			3,660,022	
Unrestricted			5,501,592	
Total Investment earnings	948,700	9,670,200	9,161,614	(508,586)
<b>Total Revenues</b>	<u>\$ 356,071,600</u>	<u>\$ 367,355,800</u>	<u>\$ 367,515,853</u>	<u>\$ 160,053</u>
<b>Revenue Requirements</b>				
Operations and maintenance [4]	144,847,700	156,747,700	154,327,770	(2,419,930)
General Retirement System legacy pension	6,048,000	6,048,000	6,048,000	-
Debt service	150,337,100	150,055,300	150,055,300	-
General Retirement System accelerated pension	6,268,300	6,268,300	6,268,300	-
Water Residential Assistance Program contribution	1,770,500	1,770,500	1,770,500	-
Extraordinary Repair & Replacement Reserve Fund	-	200,000	2,200,000	2,000,000
Regional system lease	22,500,000	22,500,000	22,500,000	-
Transfer to the Improvement & Extension Fund	24,300,000	23,766,000	23,766,000	-
<b>Total Revenue Requirements</b>	<u>\$ 356,071,600</u>	<u>\$ 367,355,800</u>	<u>\$ 366,935,870</u>	<u>\$ (419,930)</u>
<b>Revenue Requirement Variance</b>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 579,983</u>	<u>\$ 579,983</u>

- ✓ Revenue Requirements are the basis for establishing Member Partner Charges
- ✓ The goal is to net to zero as the “bottom line”
- ✓ To extent there is a positive variance, those funds support an improve financial position for subsequent years
- ✓ The net positive variance of \$580 thousand is within 0.2% of the adopted budget of \$356 million
- ✓ This schedule also shows that GLWA met all of its financial and contractual commitments for the General Retirement System legacy pension, Water Residential Assistance Program, Regional System Lease
- ✓ All debt payments were made as required

Source: FY 2023 ACFR page 113



# Page 73 How did the Sewage Disposal System Revenue Requirements perform?

	Adopted Budget	Amended Budget	Actual	Variance Over (Under) Amended Budget
<b>Revenues</b>				
Revenue from charges				
Suburban wholesale customers	\$ 275,403,500	\$ 274,907,200	\$ 275,917,502	\$ 1,010,302
Local system charges	191,042,200	191,042,200	191,042,200	-
Industrial waste control	8,420,000	8,420,000	8,393,103	(26,897)
Pollutant surcharges	4,950,800	4,950,800	4,894,567	(56,233)
Total revenue from charges	479,816,500	479,320,200	480,247,372	927,172
Other revenue [1]	400,000	2,355,000	4,901,316	2,546,316
Investment earnings [2]				
Restricted			4,102,394	
Unrestricted			8,395,898	
Total Investment earnings	1,155,600	13,532,100	12,498,292	(1,033,808)
<b>Total Revenues</b>	<u>\$ 481,372,100</u>	<u>\$ 495,207,300</u>	<u>\$ 497,646,980</u>	<u>\$ 2,439,680</u>
<b>Revenue Requirements</b>				
Operations and maintenance [3]	184,052,600	204,122,500	207,330,215	3,207,715
General Retirement System legacy pension	10,824,000	10,824,000	10,824,000	-
Debt service	205,638,100	212,509,100	212,669,100	160,000
General Retirement System accelerated pension	11,620,700	11,620,700	11,620,700	-
Water Residential Assistance Program contribution	2,394,200	2,394,200	2,394,200	-
Regional system lease	27,500,000	27,500,000	27,500,000	-
Transfer to the Improvement & Extension Fund	39,342,500	26,236,800	26,236,800	-
<b>Total Revenue Requirements</b>	<u>\$ 481,372,100</u>	<u>\$ 495,207,300</u>	<u>\$ 498,575,015</u>	<u>\$ 3,367,715</u>
<b>Revenue Requirement Variance</b>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ (928,035)</u>	<u>\$ (928,035)</u>

- ✓ Revenue Requirements are the basis for establishing Member Partner Charges
- ✓ The goal is to net to zero as the “bottom line”
- ✓ To extent there is a positive variance, those funds support an improved financial position for subsequent years
- ✓ The net negative variance of \$928 thousand is within 0.2% of the adopted budget of \$481.3 million
- ✓ This schedule also shows that GLWA met all of its financial and contractual commitments for the General Retirement System legacy pension, Water Residential Assistance Program, Regional System Lease
- ✓ All debt payments were made as required; the variance is due to estimates related to timing

Source: FY 2023 ACFR page 114

# How did the Improvement & Extension Funds Perform?

## Water I&E Fund (Source: FY 2023 ACFR page 116)

	Adopted Budget	Amended Budget	Actual [4]	Variance Over (Under) Amended Budget
<b>Inflows</b>				
Transfers in from Water Operations Fund				
Revenue transfers	\$ 24,300,000	\$ 23,766,000	\$ 23,766,000	\$ -
Transfers in from Water Construction Fund				
Working capital adjustment [1]	-	23,039,700	23,039,725	25
Investment earnings [2]	-	2,768,700	1,942,739	(825,961)
<b>Total Inflows</b>	<b>24,300,000</b>	<b>49,574,400</b>	<b>48,748,464</b>	<b>(825,936)</b>
<b>Outflows</b>				
Capital spending other (net operating expenses)	-	3,503,400	1,191,437	(2,311,963)
Capital outlay	15,452,600	5,570,100	6,405,255	835,155
Transfers out to Water Operations Fund				
GASB 96 expenditures [3]	-	-	1,930,471	1,930,471
Investment earnings [2]	-	2,768,700	2,361,890	(406,810)
Transfer out to Water Construction Fund				
Revenue financed capital	28,735,400	-	-	-
<b>Total Outflows</b>	<b>44,188,000</b>	<b>11,842,200</b>	<b>11,889,053</b>	<b>46,853</b>
<b>Net Increase (Decrease) - Budget Basis</b>	<b>\$ (19,888,000)</b>	<b>\$ 37,732,200</b>	<b>36,859,411</b>	<b>\$ (872,789)</b>
Non-budgeted inflows (outflows)				
Unrealized net increase in fair value of investments			1,275,456	
Other			72	
Other transfers in			360,397	
<b>Combining Schedule Water Improvement and Extension Fund Change in Net Position [4]</b>			<b>\$ 38,495,336</b>	

## Sewer I&E Fund (Source: FY 2023 ACFR page 117)

	Adopted Budget	Amended Budget	Actual [4]	Variance Over (Under) Amended Budget
<b>Inflows</b>				
Transfers in from Sewer Operations Fund				
Revenue transfers	\$ 39,342,500	\$ 26,236,800	\$ 26,236,800	\$ -
Transfers in from Sewer Construction Fund				
Working capital adjustment [1]	-	7,410,800	7,410,807	7
Other nonoperating revenue - grants	-	-	46,996	46,996
Investment earnings [2]	-	3,395,700	2,533,262	(862,438)
<b>Total Inflows</b>	<b>39,342,500</b>	<b>37,043,300</b>	<b>36,227,865</b>	<b>(815,435)</b>
<b>Outflows</b>				
Capital spending other (net operating expenses)	-	7,748,000	5,167,616	(2,580,384)
Capital outlay	18,447,100	6,630,700	7,170,586	539,886
Transfers out to Sewer Operations Fund				
GASB 96 expenditures [3]	-	-	1,622,671	1,622,671
Investment earnings [2]	-	3,395,700	2,506,062	(889,638)
Transfer out to Sewer Construction Fund				
Revenue financed capital	26,444,900	-	-	-
<b>Total Outflows</b>	<b>44,892,000</b>	<b>17,774,400</b>	<b>16,466,935</b>	<b>(1,307,465)</b>
<b>Net Increase (Decrease) - Budget Basis</b>	<b>\$ (5,549,500)</b>	<b>\$ 19,268,900</b>	<b>19,760,930</b>	<b>\$ 492,030</b>
Non-budgeted inflows (outflows)				
Unrealized net increase in fair value of investments			734,651	
Other			79	
Other transfers in			100,686	
<b>Combining Schedule Sewer Improvement and Extension Fund Change in Net Position [4]</b>			<b>\$ 20,596,346</b>	

- ✓ The Construction Fund returned funds to the Improvement & Extension (I&E) Fund for working capital provided in previous years

# How did the Construction Funds perform?

## Water Construction Fund (Source FY 2023 ACFR page 118)

	Adopted Budget	Amended Budget	Actual [4]	Variance Over (Under) Amended Budget
<b>Inflows</b>				
Transfers from Water Improvement & Extension Fund				
Revenue financed capital	\$ 28,735,400	\$ -	\$ -	\$ -
Transfers in from Water Operations Fund				
Bond proceeds	-	225,000,000	228,878,775	3,878,775
State revolving loans	54,992,000	95,000,000	87,088,198	(7,911,802)
Proceeds sale of asset [1]	-	185,300	185,281	(19)
Investment earnings [2]	128,800	4,565,800	6,179,231	1,613,431
<b>Total Inflows</b>	<b>83,856,200</b>	<b>324,751,100</b>	<b>322,331,485</b>	<b>(2,419,615)</b>
<b>Outflows</b>				
Capital projects	155,501,000	207,962,000	193,212,332	(14,749,668)
Transfers out to Water Operations Fund				
Investment earnings [2]	-	-	89,627	89,627
Bond cost of issuance	-	-	3,828,647	3,828,647
Transfers out to Water Improvement & Extension Fund				
Working capital adjustment [3]	-	23,039,700	23,039,725	25
<b>Total Outflows</b>	<b>155,501,000</b>	<b>231,001,700</b>	<b>220,170,331</b>	<b>(10,831,369)</b>
<b>Net Increase (Decrease) - Budget Basis</b>	<b>\$ -</b>	<b>\$ 23,039,700</b>	<b>102,161,154</b>	<b>\$ 8,411,754</b>
Non-budgeted inflows (outflows)				
Unrealized net increase in fair value of investments			405	
<b>Combining Schedule Water Construction Fund Change in Net Position [4]</b>			<b>\$ 102,161,559</b>	

## Sewer Construction Fund (Source: FY 2023 ACFR page 119)

	Adopted Budget	Amended Budget	Actual [4]	Variance Over (Under) Amended Budget
<b>Inflows</b>				
Transfers in from Sewer Improvement & Extension Fund				
Revenue financed capital	\$ 26,444,900	\$ -	\$ -	\$ -
Transfers in from Sewer Operations Fund				
Bond proceeds	-	225,000,000	218,550,892	(6,449,108)
Reserve release	-	-	7,303,668	7,303,668
State revolving loans	18,720,000	20,000,000	17,712,417	(2,287,583)
Contributed capital	-	2,176,000	-	(2,176,000)
Proceeds sale of asset [1]	-	1,140,700	1,140,682	(18)
Other nonoperating revenue - grants	-	-	180,000	180,000
Investment earnings [2]	86,200	4,803,800	7,220,881	2,417,081
<b>Total Inflows</b>	<b>45,251,100</b>	<b>253,120,500</b>	<b>252,108,540</b>	<b>(1,011,960)</b>
<b>Outflows</b>				
Capital projects	94,449,000	106,220,300	102,028,356	(4,191,944)
Transfers out to Sewer Operations Fund				
Investment earnings [2]	-	-	62,665	62,665
Bond cost of issuance	-	-	831,251	831,251
Transfers out to Sewer Improvement & Extension Fund				
Working capital adjustment [3]	-	7,410,800	7,410,807	7
<b>Total Outflows</b>	<b>94,449,000</b>	<b>113,631,100</b>	<b>110,333,079</b>	<b>(3,298,021)</b>
<b>Net Increase (Decrease) - Budget Basis</b>	<b>\$ (49,197,900)</b>	<b>\$ 139,489,400</b>	<b>141,775,461</b>	<b>\$ 2,286,061</b>
Non-budgeted inflows (outflows)				
Unrealized net decrease in fair value of investments			(171,723)	
<b>Combining Schedule Sewer Construction Fund Change in Net Position [4]</b>			<b>\$ 141,603,738</b>	

- ✓ The Construction Funds expenditures for Water were \$10.8 million less than the amended budget and Sewer were \$3.3 million less than the amended budget
- ✓ The bond transaction in September 2022 replenished bond funds available for construction activities
- ✓ Funds were returned to the I&E Fund for working capital provided in prior years



# Acknowledgements

# Direct Contributors and Participants in the Annual Financial Audit

Excellence in financial management and a commitment to strong internal controls is supported by all GLWA team members.

Every successful audit is the result of collaboration and partnership between GLWA team members and our auditors. We are pleased to acknowledge the efforts of those directly involved in the audit from all areas of GLWA in addition to the Board of Directors Audit Committee and GLWA Executive Leadership Team.

**GLWA Contributors**

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**Baker Tilley Auditors**

Gwen Zech	Jodi Dobson	Stephanie Silva	Mariela Perez Arredondo
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### FY 2023 Financial Audit Results

Good news! The Great Lakes Water Authority received what is known as a “clean audit” opinion from Baker Tilly, the independent auditors, for the financial audit of the Annual Comprehensive Financial Report (ACFR) as well as the audit of federal award programs.

### Commitment to Reporting Quality – All Year Long

GLWA has a strong commitment to quality in financial reporting. This means timely, relevant, and reliable information is available. *Preliminary* year-end results were materially consistent with the *final, audited* expenses. Extensive financial information can be found on the “Financials” page at <http://www.glwater.org>

### Positive, Predictable Budget Performance

Stability and predictability in forecasting revenue is important for GLWA – as well as providing reliable forecasts for Member Partners in our annual charge setting process. Other revenue includes investment earnings and other sources to help lower the burden on the cost of service. As shown below, GLWA operated within 1% of the amended budget to meet operational, debt, and other financial commitments.

	Adopted Budget	Amended Budget	Actual	% Adopted Budget	% Amended Budget
<b>Water Operations</b>					
Revenue from charges	\$ 354,947,900	\$ 356,690,600	\$ 356,975,533	100.6%	100.1%
Other revenue	1,123,700	10,665,200	10,540,320	938.0%	98.8%
Total revenues	356,071,600	367,355,800	367,515,853	103.2%	100.0%
Revenue requirements	356,071,600	367,355,800	366,935,870	103.1%	99.9%
Revenue requirement variance	\$ -	\$ -	\$ 579,983	0.2%	0.2%
<b>Sewage Disposal Operations</b>					
Revenue from charges	\$ 479,816,500	\$ 479,320,200	\$ 480,247,372	100.1%	100.2%
Other revenue	1,555,600	15,887,100	17,399,608	1118.5%	109.5%
Total revenues	481,372,100	495,207,300	497,646,980	103.4%	100.5%
Revenue requirements	481,372,100	495,207,300	498,575,015	103.6%	100.7%
Revenue requirement variance	\$ -	\$ -	\$ (928,035)	-0.2%	-0.2%

### Solid Credit Metrics

**Debt Service Coverage** is an indication of our ability to meet debt service payments and is an important ratio for our creditors to demonstrate that GLWA has sufficient

cash to repay its bondholders. GLWA uses two methodologies: the GAAP methodology is mostly based on an accrual basis; the rate covenant methodology is based on a cash basis.

Debt Service Coverage for the year ended June 30, 2023	Water		Sewer	
	GAAP	Covenant	GAAP	Covenant
Senior Lien Bonds	1.96	1.88	2.13	2.17
Senior and second lien bonds	1.43	1.37	1.69	1.72
All bonds, including SRF junior lien	1.36	1.31	1.34	1.37

**Days Cash on Hand** demonstrates that sufficient funds are available to maintain and operate the systems, reduces GLWA’s reliance on debt to improve affordability. It is calculated as unrestricted cash divided by one day of operating expense. At June 30, 2023, the days cash on hand was 573 days for the water system and 521 days for the sewer system.

A large, stylized graphic in the background of the page. It consists of three interlocking, curved shapes that form a circular pattern. The top two shapes are a medium blue, and the bottom shape is a lighter blue. In the center of this graphic, the text 'GLWA' is written in a large, white, sans-serif font.

**GLWA**

*Great Lakes Water Authority*

**Annual Comprehensive  
Financial Report**

**Fiscal Year Ended June 30, 2023**



**GREAT LAKES WATER AUTHORITY**

Southeast Michigan

**ANNUAL COMPREHENSIVE FINANCIAL REPORT**

Including Independent Auditors' Report

Fiscal Year Ended June 30, 2023

**Prepared By:**

**Great Lakes Water Authority Financial Services Area**



TABLE OF CONTENTS  
Annual Comprehensive Financial Report Fiscal Year Ended June 30, 2023

	<u>Page</u>
<b>INTRODUCTORY SECTION</b>	
Transmittal Letter	vi-xviii
Organizational Line of Reporting Chart	xix
Board of Directors, Executive Leadership Team, Mission and Vision Statement	xx
GFOA Certificate of Achievement	xxi
<b>FINANCIAL SECTION</b>	
Independent Auditors' Report	1-3
Management's Discussion and Analysis (Required Supplementary Information)	6-31
Basic Financial Statements	
Statement of Net Position	34-35
Statement of Revenues, Expenses and Changes in Net Position	37
Statement of Cash Flows	38-40
Index to Notes to Financial Statements	42
Notes to Financial Statements	43-94
Required Supplementary Information other than MD&A	
Nonemployer Contributing Entity Share of City of Detroit General Employees Retirement System – Component II:	
Schedule of Changes in Net Pension Liability and Related Ratios:	
Business-Type Activities	96
Water Fund	97
Sewage Disposal Fund	98
Schedule of Contributions	99
Notes to Required Supplementary Information	100
Supplementary Information	
Combining Schedule of Net Position – Water Fund	102-103
Combining Schedule of Revenues, Expenses and Changes in Net Position – Water Fund	105
Combining Schedule of Net Position – Sewage Disposal Fund	106-107
Combining Schedule of Revenues, Expenses and Changes in Net Position – Sewage Disposal Fund	108
Schedule of Interfund Receivables and Payables	109
Schedule of Operating Expenses for Water Operations Fund – Budget to Actual	110
Schedule of Operating Expenses for Sewer Operations Fund– Budget to Actual	111
Schedule of Operating Expenses for Combined Water and Sewer Operations Funds – Budget to Actual	112
Schedule of Revenue Requirements – Budget to Actual – Water Operations	113
Schedule of Revenue Requirements – Budget to Actual – Sewage Disposal Operations	114
Schedule of Revenue Requirements to Statement of Revenues, Expenses and Changes in Net Position Crosswalk	115
Water Improvement and Extension Fund – Budget to Actual	116
Sewer Improvement and Extension Fund – Budget to Actual	117
Water Construction Fund – Budget to Actual	118
Sewer Construction Fund – Budget to Actual	119



TABLE OF CONTENTS (cont.)  
Annual Comprehensive Financial Report Fiscal Year Ended June 30, 2023

	<u>Page</u>
<b>FINANCIAL SECTION (cont.)</b>	
Supplementary Information (cont.)	
Schedule of Days Cash – Liquidity	120
Notes to Supplementary Information	121-122
<b>STATISTICAL SECTION</b>	
<b>Financial Trends</b>	
Schedules of Net Position:	
Business-Type Activities	126-127
Water Fund	128-129
Sewage Disposal Fund	130-131
Changes in Net Position:	
Business-Type Activities	132
Water Fund	133
Sewage Disposal Fund	134
<b>Revenue Capacity</b>	
Charge Adjustments	136
Water Fund Operating Revenues / Largest Water Customers	137
Sewage Disposal Fund Operating Revenues / Largest Sewer Customers	138
Water System Service Charges	139
Sewage Disposal System Service Charges	140
Industrial Waste Control Charges and Pollutant Surcharges	141
<b>Debt Capacity</b>	
Ratios of Outstanding Debt by Type	144
Debt by Lien	145-147
Schedule of Debt Service Requirements	148-149
Debt Credit Rating History	150
Debt Service Coverage	
Debt Service Coverage Overview	151
GAAP Basis – Water System	152
Rate Covenant Basis – Water System	153
GAAP Basis – Sewage Disposal System	154
Rate Covenant Basis – Sewage Disposal System	155
<b>Demographic and Economic Information</b>	
Service Area Demographics	158
Largest Employers	159
<b>Operating Information</b>	
Produced and Billed Water Volumes	162
Wastewater Volumes	163
Additional Summary Statistics	164

## INTRODUCTORY SECTION



## TRANSMITTAL LETTER

December 13, 2023

Board of Directors of the Great Lakes Water Authority and Those That We Serve,

We are pleased to present the Annual Comprehensive Financial Report ("ACFR") for the Great Lakes Water Authority ("GLWA" or "Authority") for the fiscal year which ended June 30, 2023.

### About this Annual Comprehensive Report

The accompanying financial statements for GLWA were prepared in accordance with U.S. generally accepted accounting principles ("GAAP"), as promulgated by the Governmental Accounting Standards Board ("GASB") and audited by a firm of independent certified public accountants engaged by the GLWA Board of Directors. This is consistent with the GLWA Articles of Incorporation and By-laws which require an annual audit of the Authority's financial statements by independent certified public accountants.

Responsibility for the accuracy of the data and the completeness and fairness of the presentation, including all disclosures, rests with GLWA management. To the best of our knowledge and belief, the information contained in this report is accurate in all material respects and is reported in a manner designed to present fairly the financial position and results of operations of GLWA. All disclosures necessary for the reader to gain an understanding of GLWA's financial activity have been included.

GLWA management is responsible for establishing and maintaining an internal control structure designed to ensure that its assets are adequately safeguarded against loss, theft, or misuse and to maintain accurate and reliable financial records for the preparation of financial statements and the representations made by management. The internal control structure is designed to provide reasonable, but not absolute, assurance that these objectives are met. The concept of reasonable assurance recognizes that: 1) the cost of internal controls should not exceed the benefits derived from the controls; and 2) the evaluation of costs and benefits requires management's exercise of judgment. To the best of our knowledge and belief, GLWA's internal accounting controls adequately safeguard its assets and provide reasonable assurance of the proper recording of financial transactions in accordance with GAAP.

Baker Tilly US, LLP, Certified Public Accountants, has been retained by GLWA to serve as its independent auditors and has issued an unmodified ("clean") opinion on GLWA's financial statements for the year ended June 30, 2023, with comparative amounts for June 30, 2022.

GAAP requires that management provide a narrative introduction, overview, and analysis to accompany the basic financial statements in the form of Management's Discussion and Analysis ("MD&A"). This letter of transmittal is designed to supplement the MD&A and should be read in conjunction with it. GLWA's MD&A is located immediately following the independent auditors' report.

### **Overview of GLWA**

GLWA is one of the largest water and wastewater utilities in the United States serving solely as a wholesale treatment service provider. At GLWA, we define "member partner" as the city, township, village, drainage district, authority or other public body corporate recognized by the state of Michigan that holds a wholesale water or wastewater disposal services contract with GLWA. Our member partners are actively engaged with GLWA and supported by a facilitated outreach program to ensure open, ongoing, and proactive relationships.

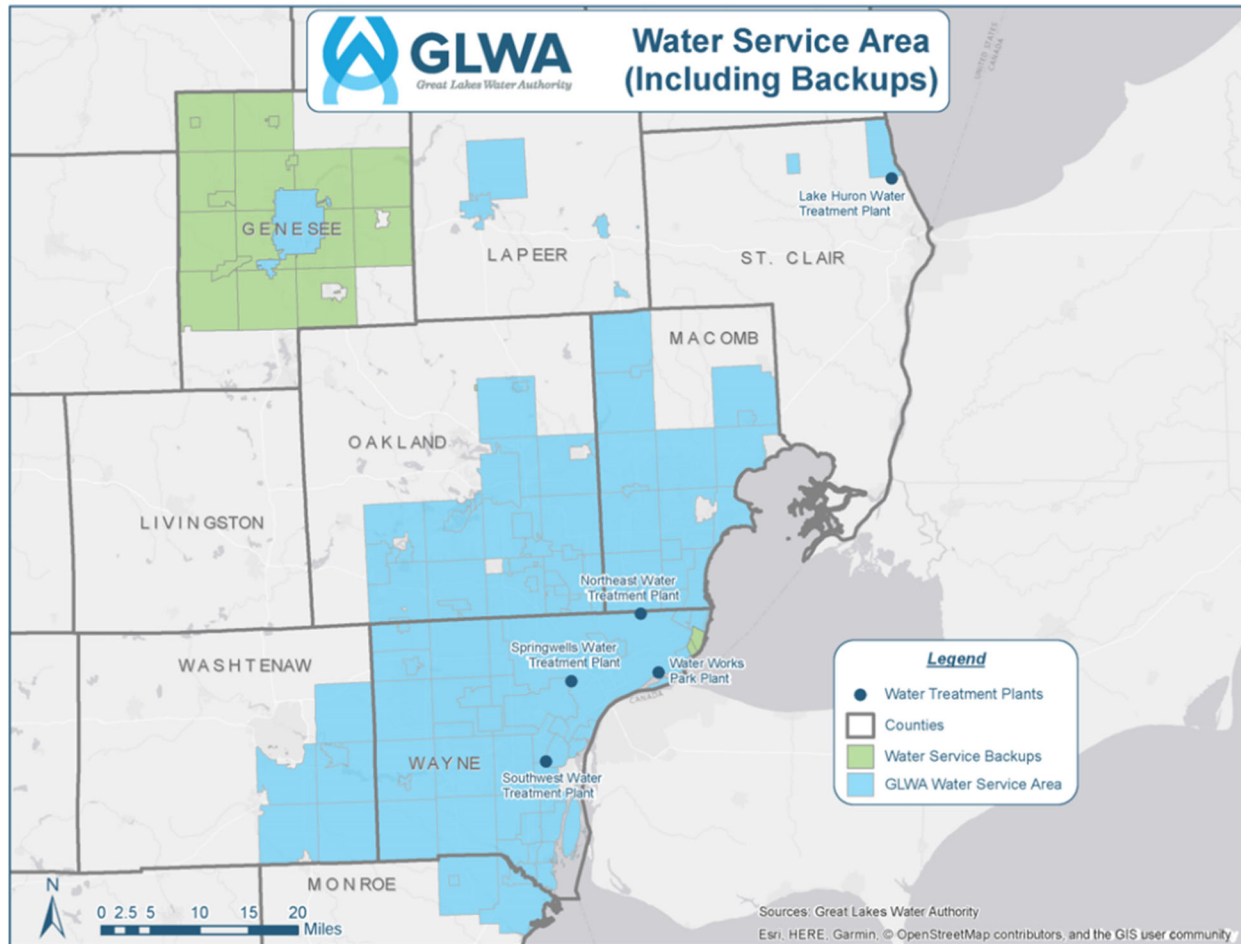
GLWA assumed operational control of the city of Detroit Water & Sewerage Department's (DWSD) regional operating assets on January 1, 2016, pursuant to the terms outlined in a companion set of documents commonly referred to as the lease agreements and water and sewer services agreements. DWSD continues to operate and maintain the local system that serves the geographic boundaries of the city of Detroit. GLWA leases the regional water and sewage disposal facilities from the City for an allocation of \$50 million per year to fund capital improvements for the City's retail system and/or debt obligations associated with providing water and sewer service to the City.

### **Regional Water System**

Our regional water system is one of the largest in the United States, both in terms of water produced and population served. The system currently serves an area of 1,698 square miles with an estimated population of nearly 3.8 million or approximately 38 percent of Michigan's population. The water system has 88 member partners across 112 communities. Below is the water service area map.

The water supply system consists of three intake facilities, five water treatment plants, 19 booster pumping stations, 32 water storage reservoirs and a conveyance system with over 816 miles of transmission mains. The facilities have the treatment capacity of 1,720 million gallons per day.

The following map details the water service area.



### Regional Wastewater System

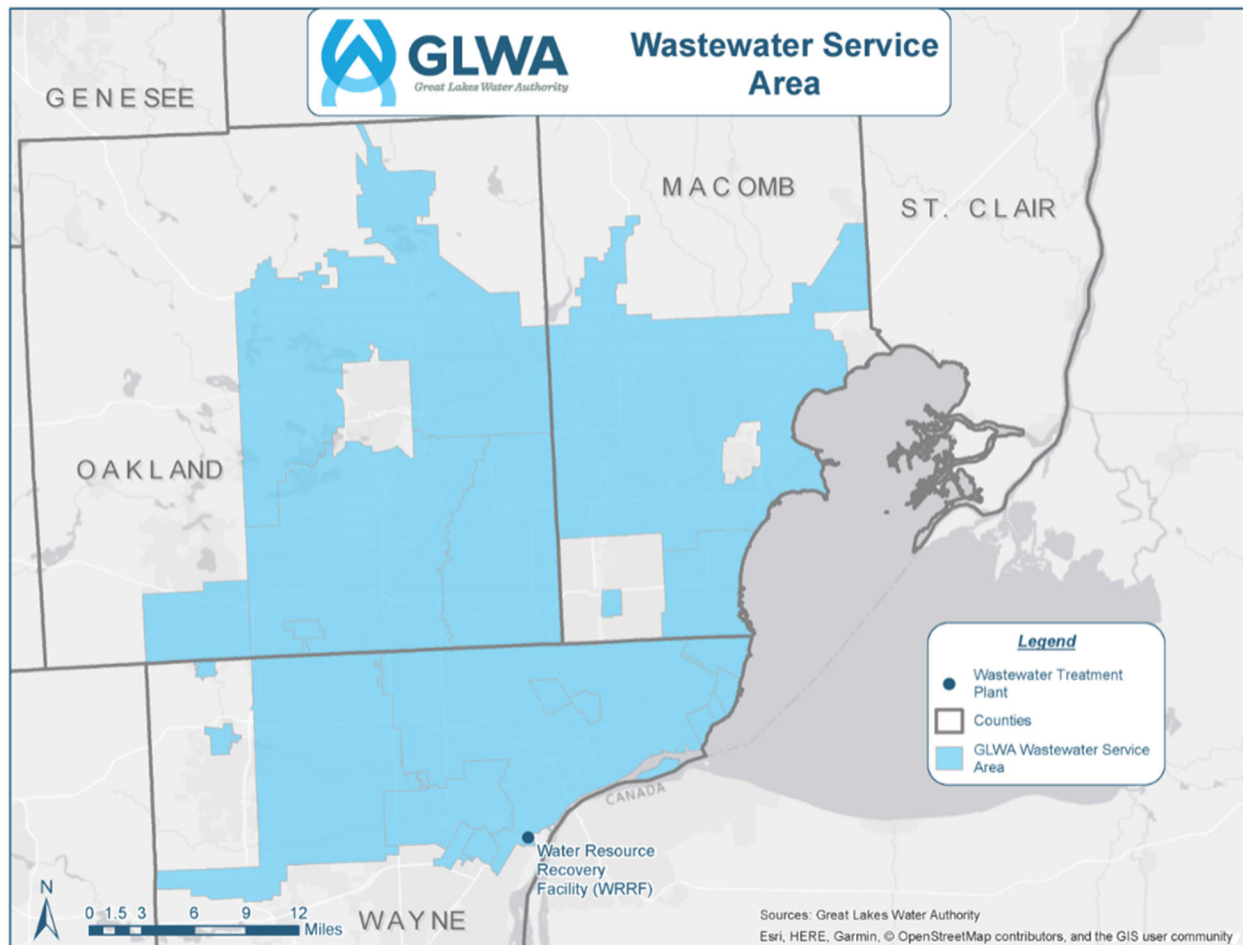
Our regional wastewater system is also one of the largest in the United States, both in terms of treatment capacity and population served. The wastewater system currently serves an area of 944 square miles with an estimated population of nearly 2.8 million or approximately 28 percent of Michigan’s population. The wastewater system has 19 member partners across 79 communities.

The wastewater system consists of one of the largest single-site water resource recovery facilities in the United States with a treatment capacity of 1,700 million gallons per day. The wastewater system has three major interceptors, nine pump stations, eight Combined Sewer Overflow (“CSO”) Control Facilities, including five retention treatment basins and three flow-through type facilities, as well as a conveyance system with 195 miles of trunk sewers and interceptors.

The long-term strategy for the wastewater treatment and sewage disposal system is a focus on regional efficiencies. The 2020 Wastewater Master Plan (“WWMP”) was adopted by the Board in September 2020. The WWMP was created with incredible energy, insight, and direction from a broad cross section of our member partners working collaboratively with our team members and consultants and other regional stakeholders. The focus, approach and outcomes of the plan demonstrate the true spirit of the One Water Partnership that GLWA and our member partners are

committed to for the benefit of southeast Michigan. The 40-year master plan focuses on water quality, leveraging the entire region's existing infrastructure, maximizing the use of dynamic wet weather operations, strategic use of green infrastructure, addressing changes in weather patterns and rain event intensities, extensive system modeling including surface water and wastewater treatment, evaluation of resource recovery options and energy reduction opportunities.

The following map details the wastewater service area.



### One Water Concept

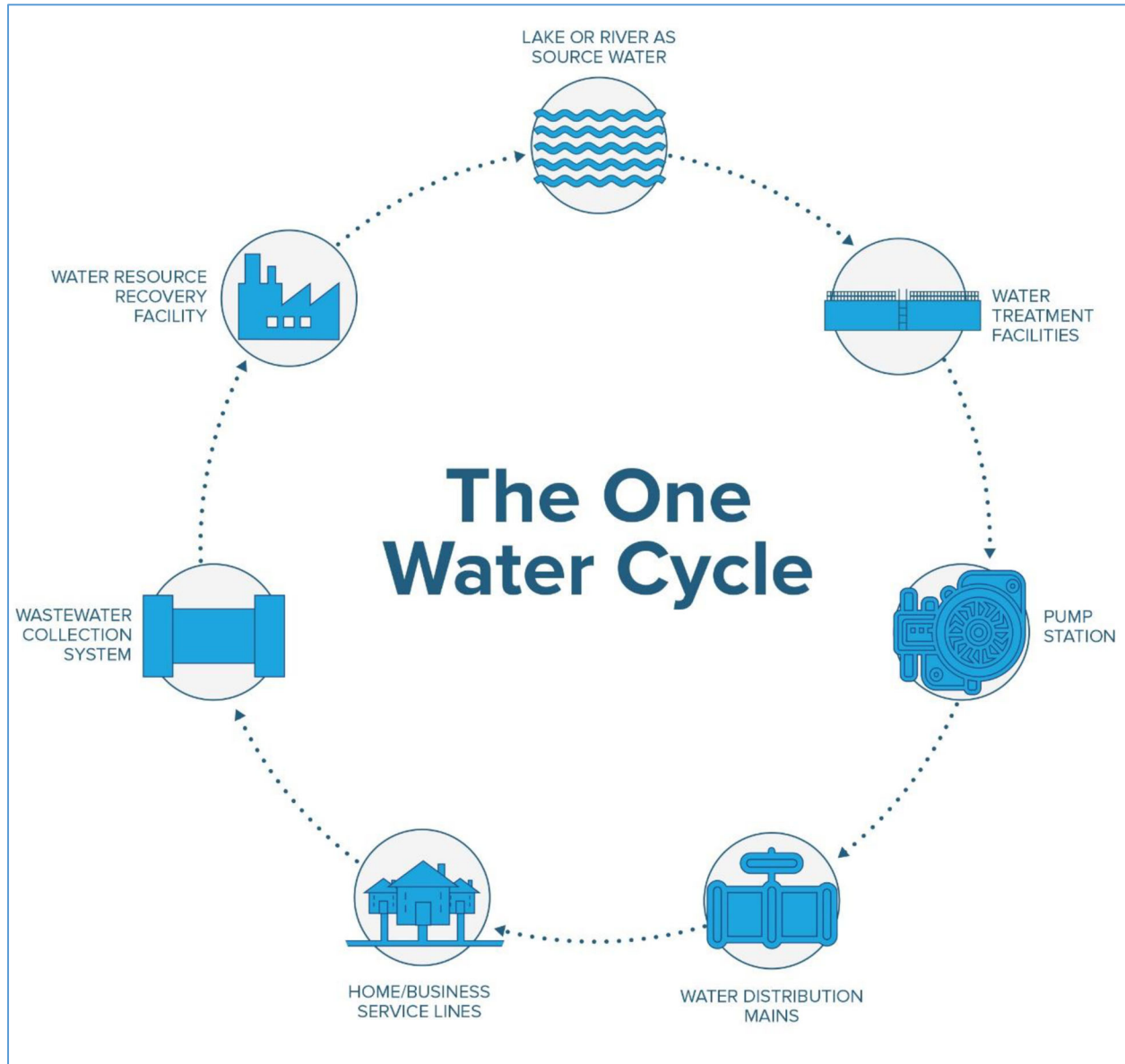
GLWA is all about **One Water** - the movement of water from the environment to its member partners, and back to the environment.

First, GLWA ensures its member partner communities receive the highest quality water by using treatment standards that are more strict than state or federal regulatory requirements.

Then, once water has been used, GLWA runs it through the treatment process again before returning it to the environment - often times cleaner than when the water was first received.

Working hand in hand with its member partners, GLWA provides unquestionable water quality and efficient and effective wastewater services.

Together, GLWA is **One Water** with its member partner communities.



### Regional Service Area Economy

The GLWA service area is largely located in the Detroit Metropolitan Service Area (MSA) which is experiencing the lowest unemployment rate in over 10 years at 3.2 percent. The city of Detroit is experiencing significant growth driven by large scale redevelopment and major corporations increasing their presence or relocating. This redevelopment is also supporting greater diversity in employment opportunities for resident with manufacturing now representing 12 percent of the local



employment, down from 19 percent in 2000, while other areas such as professional, business, education and health services comprise over one-third of all employment. The population level remains stable. Per capita income has had a steady increase over the years.

Strength in the economy is observed through increasing and strong credit ratings among the city of Detroit and tri-county area that covers the majority of GLWA's member partner communities. The respective ratings from Moody's (M), Standard & Poor's (S), and Fitch (F) are listed below along with the state of Michigan who provides significant levels of low-cost state revolving fund loans to GLWA.

- Oakland County Aaa/AAA/Not Rated (M/S/F)
- Macomb County Aa1/AA+/Not Rated (M/S/F)
- Wayne County A1/A/A (M/S/F)
- City of Detroit Ba1/BB+/Not Rated (M/S/F)
- State of Michigan Aa1/AA/AA+ (M/S/F)

### **Water Residential Assistance Program**

While the economic metrics are strong, there will always be households in need in the service area. For this reason, the founding legal structure for GLWA provided that 0.5 percent of the annual budgeted requirement be directed to funding the Water Residential Assistance Program ("WRAP"). For the year ended June 30, 2023, the funding level was \$4.2 million. This program provides payment assistance and support services to address home repairs to assist eligible low-income residential households in our member partner communities. This means that qualified households can receive payment assistance, as well as take steps to sustainably reduce their bills in the future. The WRAP program is delivered through a network of governmental and nonprofit service delivery partners who can provide a wholistic approach to supporting households in need with other services. In October 2022, the new WRAP Income Based Plan ("IBP") was launched to provide eligible households with payment assistance that limits the household cost for services to three percent. The IBP was the result of extensive research which GLWA believes to be a nationally leading program design.

### **Budget Process**

GLWA has a rigorous budget process. Annually, a biennial budget and five-year plan are prepared concurrently. This process begins soon after the current fiscal year begins with the operating area budget managers. A preliminary budget is presented to the Audit Committee in December and then to the full Board in January. It is also presented to our member partners for comments during the charge development process. The final proposed biennial budget and five-year financial plan, as well as a five-year capital improvement plan ("CIP"), is presented to the Board during a public hearing in February. Once approved, the budget takes effect on July 1st.

The legal level of budgetary control is the bottom line of each of the budgeted revenue requirements to align with the charge setting process. Components of the revenue requirements are referred to as appropriation categories. The budget shall not be increased or decreased by appropriation category without prior Board authorization. The Board is provided a detailed budget by line item which supports the totals in each appropriation category at the time of budget approval. The Chief Financial Officer may exercise discretion to modify the detail budget line items within each appropriation category.



The budget is prepared on a modified cash basis and the revenue requirements are determined based upon the cash needed to meet the expenditures as required by the Master Bond Ordinances (“MBOs”). A budget to actual comparison is included in the Schedule of Revenue Requirements in the Supplementary Information. A crosswalk is provided in the Supplementary Information that provides a reconciliation between budget basis results in the Schedule of Revenue Requirements to the accrual basis results in the Statement of Revenues, Expenses and Changes in Net Position.

### **The 4% Promise**

Affordability and sustainability were primary concerns in establishing the regional water authority. The mechanism to achieve that balance was the “4% Promise” as established in the foundational documents for GLWA. The 4% Promise requires that the annual revenue requirement does not increase by more than 4 percent in any one year for the first 10 years of the Authority’s existence. The revenue requirement includes operations and maintenance (O&M) expense, debt service, system lease payments, legacy pension, funding for WRAP, funding for the capital program via Improvement & Extension Fund contributions and any other expenditure or funding as required by the MBOs. With a strong commitment to affordability, GLWA has stayed well under that promise with an average annual revenue requirement adjustment of 2.2 percent for the water fund and 0.9 percent for the sewage disposal fund from FY 2018 through FY 2024.

### **Long-term Financial Planning**

GLWA annually updates a 10-year financial forecast as a roadmap to achieve one of the organizational goals of a solid AA category rating, by meeting or exceeding rating agency criteria. This goal was recently reached with the most recent rating agency affirmation and upgrades issued in October 2023. Since the operational effective date of the Authority, Moody’s Investor Services has increased the ratings 6 notches, and Standard & Poor’s has increased the ratings 3 notches for both systems. Fitch Ratings has increased the ratings 4 notches for the water system and 5 notches for the sewage disposal system. More details on the October 2023 credit ratings are described in the MD&A and in Note 20.

The path to achieve a solid AA credit rating is based upon rebalancing the mix of debt financing and revenue generated capital (also known as pay-as-you go) to fund the CIP. GLWA has delivered in reducing the annual revenue dollars that are dedicated to debt service with an effective debt refunding program.

There was one debt refunding during the fiscal year ended June 30, 2023, for the Sewage Disposal system. This transaction used a \$1.6 reduction in reserve requirements to reduce future budgeted (gross) cash flow by \$1.96 million which resulted in a net present value economic gain of approximately \$212,000. Since the fiscal year-end of June 2023, GLWA issued Water System and Sewage Disposal System refunding bonds in a tender purchase offer which closed on December 5, 2023. These transactions used a \$0.2 million reduction in reserve requirements to reduce future budgeted cash flow by \$45.9 million which resulted in a net present value economic gain of \$28.8 million. Since GLWA’s operational inception in 2016 through December 2023, refunding transactions have used reductions in debt reserve requirements of \$107.7 million to reduce future budgeted cash flow by \$766.1 million resulting in a net present value economic gain of \$469.7 million. These savings

have a material impact on GLWA's ability to keep the annual revenue requirement adjustments and related charge adjustments at an amount well below the consumer price index.

This financial achievement demonstrates the strength, stability, and best-in-class performance that the regional stakeholders and leadership team envisioned when the concept of a regional authority emerged in 2014. Further, we believe that our transparency and accessibility in addressing questions from rating agencies, as well as investors, contributed to successful outcomes in uncertain times.

### **Major Initiatives**

If there is one word that would describe the driver of GLWA's major initiatives, it would be resiliency. Changing climate, aging infrastructure, constrained workforce, and rapid cost increases shape our very focused efforts to make sure that GLWA is able to anticipate, withstand, recover from, and adapt to changing and unforeseen conditions to ensure the delivery of water of unquestionable quality and superior environmental stewardship.

#### *System and Operational Resiliency*

GLWA is taking action to enhance system and operational resiliency. One example is the launch of Linear System Integrity Program (LSIP). This initiative uses innovative technology to support the regional system's capacity to deliver drinking water and collect wastewater data. Using innovative technology such as electromagnetic and acoustical devices that can be inserted into drinking water transmission mains with minimal disruption and allow the utility to target its efforts to proactively intervene to prevent main breaks. This allows GLWA to better target specific assets that must be either repaired or replaced.

Recent sewer system specific actions completed include the standup of an event-specific resiliency team, strengthening reliability of external power supply source, and installation of power quality monitors at wet weather facilities. In process actions include modernization of Connors Creek pump station and other stormwater facilities and optimization including system cleaning and improvements to in-system storage devices.

GLWA's Energy, Research, and Innovation Area is working to improve operations, optimize the value of our capital and operational investments, and identify and mitigate future risks, such as emerging contaminants, asset failure, and climate change. Many of their initiatives are in concert with universities, grantor agencies, and encompass community engagement.

Orchestrating the efforts outlined above include a new System Resiliency Group with an organization-wide focus. The team members assigned to this group have core institutional knowledge that is being captured in multiple ways including operating manuals and training videos.

As it relates to the capital improvement program (CIP), the majority of the GLWA FY 2024–2028 five-year CIP is driven by optimizing the system and maintaining reliability. There are no projects in the CIP for the water system that are driven by mandated permit requirements. A small percentage of projects for the wastewater system have permit and regulatory requirements. The water system calls for \$986.6 million of major capital expenditures over the next five fiscal years (2024-2028) and the wastewater (sewer) system calls for \$798.2 million of capital expenditures over the same period. The staff from Michigan Department of Environment, Great Lakes, and Energy ("EGLE") regularly engage with GLWA on capital project matters to ensure alignment and open dialog to achieve optimal results.

Fortunately, GLWA has certain geographic and source water advantages to maintain resiliency despite climate change. GLWA is surrounded by the great lakes with three water intakes spaced between Lake Huron and Lake Erie. PFAS is non-detect in source water. Further, there are two pilot water plants that allow GLWA to test and assess changes in water treatment.

#### *Human Resource Resiliency*

We continue to develop strategies to help ensure that we retain highly skilled team members and attract top talent in a tight employment market. GLWA is filled with a very talented group of water professionals doing great things in and for the areas that we serve.

Our Professional Development Certification Program allows team members in 11 job classifications represented by a union through a Collective Bargaining Agreement and in the team leader classification to earn stipends for EGLE required certifications. The recently completed third year of the program resulted in 154 team members, nearly one-third of those eligible, earning certifications from EGLE. We have also updated job descriptions, launched a comprehensive compensation study, instituted formal compensation equity reviews for new and existing team members, expanded wellness programs, and provided incentives for referring new team members to GLWA. The offerings for the One Water Institute, a regional training academy launched in 2019, increased to meet the needs of GLWA team members and member partners' staff to expand technical knowledge capacity in the region. Recently, in July 2023, a Leadership Academy was launched that is designed to support Leadership Team Members in their efforts to facilitate high-performing Teams. This new training initiative is well underway with two of the three foundational courses already completed.

At a time when many employers are facing labor shortages and turnover due to retirement, GLWA is focused on continuing to expand workforce development and succession planning. Developed in partnership with Focus: HOPE and approved by the US Department of Labor, GLWA's apprenticeship program successfully demonstrates a "learn-while-you-earn" model with on-the-job training and education at no cost to the participants. In partnership with Focus: HOPE, and several educational providers, GLWA has launched five multiple-year apprenticeships. A successful outcome is for apprentices to remain with GLWA post-apprenticeship.

In 2022, GLWA launched the summer internship program to develop new talent for the future of the water sector from local universities. It is a pathway for GLWA to identify new, sustainable solutions to help address the need for a qualified, diverse and knowledgeable workforce to fill roles that are imperative to the Authority's operations. Interns receive hands-on training in various fields including engineering, environmental science, finance, water affordability, legal, and research. GLWA has had 22 summer interns to-date.

Significant progress has been made this year in succession planning with deputy chief positions being added in Water Operations, Wastewater Operations, Administrative and Compliance Services, and Financial Services.

#### *Financial Resiliency*

In addition to the commitment to the five-year and ten-year financial plans, GLWA formed an Economic Outlook Task Force ("EOTF") to analyze current trends, forecast future price increases, and offer mitigation strategies. The EOTF's Phase 1 report dated October 24, 2022 provided both short-

term and long-term cost pressure mitigation strategies. It addressed forecasting strategies, capital project portfolio management, and other risk and cost mitigation actions such as modifying vendor contract terms. A key outcome of the EOTF's Phase I report was development a set of planning scenarios for a baseline, optimistic, and pessimistic set of assumptions. Scenario planning provides an inherent commitment to resiliency because the organization is routinely considering different outcomes based on changing circumstances. We continue to monitor this economic planning framework quarterly that is used in preparing the ten-year financial plan and the CIP. The quarterly updates are provided to the GLWA Audit Committee. A full update was presented to the Board of Directors in September 2023.

GLWA is fortunate in that it routinely receives multiple competitive responses on procurement solicitations. Vendor engagement is a top priority. One way that occurs is through vendor outreach events. The most recent in-person event was hosted in September 2023 with over 200 vendors in attendance.

Another vendor focused initiative is the Business Inclusion and Diversity (BID) program. This initiative was approved on November 25, 2020, when the GLWA Board of Directors approved an amendment to the procurement policy that establishes the submission of a diversity plan for all procurements over \$1 million to ensure that the vendor community is aligned with GLWA's values for a diverse vendor base. The amendment also provides incentives to business located in our state, services area, and in economically disadvantaged communities among our member partner communities. The launch of the Business Inclusion & Diversity ("BID") program significantly strengthens the Small Business Initiative and the Strategic Alliance Memorandum executed with the United States Small Business Administration ("SBA") in 2018 to meet the needs of the small business community and engagement in GLWA business opportunities. As of October 2023, GLWA has awarded 37% of eligible contracts (\$346.8 million) to disadvantaged, minority-owned, women-owned, and small businesses and received 288 diversity plans.

GLWA is embarking on an organization-wide initiative to develop an Environmental, Social and Governance (ESG) framework. Many aspects of GLWA inherently support the tenants of ESG, it is of benefit for us to implement a process for informing, documenting, measuring, and reporting on the ways in which we approach these aspects of our work. While the framework has significance across the organization, the ESG Framework report, which will be published in early calendar year 2024, is expected to provide increased demand for GLWA bonds which may lower interest rates on debt issuances in the future as well as strengthening credit ratings.

### ***Member Partner Relations***

The One Water Partnership Agreement between GLWA and its member partners outlines the mutual commitments to working together for the greater good of the region, detailing the responsibilities of all parties and a commitment to a multi-jurisdictional, multi-agency approach to infrastructure renewal and investment. GLWA's collaborative relationship with its customers is foundational to its operations wherein GLWA works with its customers as member partners. In December 2022, the most recent Member Partner Outreach Scorecard was presented to the Board which provided an overall satisfaction survey at 90% with communication, transparency, and responsiveness as key strengths. Not surprisingly, shared concern of capital project cost increases was noted in the survey results.

### **FY 2023 Financial Results**

Most important to our member partners are our budget results, as the member partner charges are set based upon our revenue requirements that must be fulfilled. The Schedule of Revenue Requirements Budget to Actual, in the Supplementary Information, provides an overall view of the financial results for FY 2023. In preparation of the budget, GLWA adheres to the following Financial Plan Objectives that are discussed in detail in our budget document:

1. The 4% Promise - The lease agreements that established the regional authority demonstrated a commitment to affordability by codifying what is commonly referred to as the 4% Promise. This caveat established that the annual revenue requirement budget increases are limited to 4 percent for the first 10 years of operations beginning with FY 2016;
2. Revenue Stability for the System – This is achieved by utilizing a charge model to provide revenue stability despite changes in climate conditions that vary from year to year which also includes measures to foster water conservation;
3. Managing Charge Stability for Our Member Partners – The goal is to adjust charges on a modest incremental basis systemwide to prevent unpredictable cost increases for our Member Partners;
4. Retail System Revenue and Collections – Under the terms of the leases, Master Bond Ordinance (“MBO”), and the services agreement with DWSD, GLWA distributes receipts to the revenue requirements following a flow of funds that may result in a cashflow loan to DWSD. The goal is that the retail system collections exceed the financial commitments under the MBO;
5. WRAP – This program is required to be funded at 0.5 percent of revenue;
6. Closed Loop Lease Payment – The regional system lease payments stay within the local, retail water and sewage disposal systems for the benefit of the DWSD;
7. Closed Legacy Benefit Plan Costs – GLWA’s share of the required DWSD commitment as part of the City of Detroit’s Chapter 9 bankruptcy Plan of Adjustment is funded consistent with the terms of the agreement.

The bottom-line revenue requirement budget result is that Water Operations ended the year with a \$0.6 million (0.2 percent) positive budget variance after meeting all of the revenue requirements. The Sewage Disposal Operations ended the year with a negative budget variance of \$0.9 million (-0.2 percent) after meeting all of the revenue requirements.

A further discussion of FY 2023 results is presented in the MD&A. The MD&A provides further analysis of the water and sewage disposal systems individually in addition to GLWA overall.

### **Solid Foundation for Sustainability**

GLWA is committed to ensuring the long-term sustainability of the regional water supply and sewage disposal systems – we do this by recognizing that near-term actions have long-term impacts.

*Stable Revenues with Modest Charge Adjustments* - GLWA balances steady and controlled Operations and Management budget requests for the short-term, while continuing to focus on increasing cash reserves for capital investment and controlling long-term financial commitments. This provides stability in the cost of supply for our member partners (See Schedule 3 in the Statistical Section which provides the history of charge adjustments). The water and sewer regional system charge structure,



developed collaboratively with member partners, supports a high degree of financial stability. The regional water supply system revenues are set using a methodology with a basis of 60 percent fixed monthly charge and 40 percent commodity consumption using a 36-months historical average usage. Proof of that stability gained is that actual wholesale customer revenue for 2023 was 100.1 percent of the amended budget. The regional sewage disposal system charge revenue methodology is designed to recover 100 percent with a fixed monthly billing based on each member partner's share of the annual forecasted revenue requirement. The sewage disposal charges updated the core methodology to the SHARES calculation effective with the FY 2022 service charges, which embraces simplicity and replaces the strength of flow with an appropriate weighting on sanitary volumes. This simplified sewer charge methodology was developed by GLWA team members, advisors, and member partners.

*Strong Bondholder Protections* - All payments to GLWA and DWSD for services provided are deposited to Bond Trustee Accounts and are disbursed in accordance the MBO flow of funds.

*Defined Contribution Benefit Plans* - All employee benefit plans are defined contribution which provide shorter term vesting and flexibility for the employee while creating zero risk on unfunded liabilities for GLWA.

*Legacy Pension Decrease* - The City of Detroit Chapter 9 Bankruptcy Plan of Adjustment required DWSD to fund its portion of the City's General Retirement System (GRS) Component II pension plan, which was frozen as of June 30, 2014, over a nine-year period ending June 30, 2023. Upon the operational effective date of the Authority, GLWA and DWSD agreed to split that annual contribution based upon a historical staffing analysis with 70.3 percent allocable to GLWA and 29.7 percent to DWSD. With the ending of the initial nine-year period on June 30, 2023, the GRS Actuarial Annual Actuarial Valuation of Component II for June 30, 2022, shows the projected UAAL contributions for DWSD to be \$0 beginning in FY 2024 (there is a small contribution requirement for administrative expenses). The reduction of this pension liability means that any payments to the pension system for the foreseeable future are limited to annual administrative expenses of \$2.5 million in total.

## Awards

*Government Finance Officers Association Distinguished Budget Presentation Award* - The Government Finance Officers Association of the United States and Canada ("GFOA") presented a Distinguished Budget Presentation Award to Great Lakes Water Authority, Michigan, for its Biennial Budget for the biennium beginning July 1, 2023. This was the Authority's fifth year receiving the award. To receive this award, a governmental unit must publish a budget document that meets program criteria as a policy document, as a financial plan, as an operations guide, and as a communications device.

*Government Finance Officers Association Certificate of Achievement for Excellence in Financial Reporting* - GFOA has awarded the Certificate of Achievement for Excellence in Financial Reporting to Great Lakes Water Authority for its annual comprehensive financial report for the fiscal year ended June 30, 2022, for the fourth year in a row. The report has been judged by an impartial panel to meet the high standards of the program, which includes demonstrating a constructive "spirit of full disclosure" to clearly communicate its financial story and motivate potential users and user groups to read the report. The Certificate of Achievement is the highest form of recognition, in the area of

governmental accounting and financial reporting, and its attainment represents a significant accomplishment by a government and its management.

### **Acknowledgements**

The positive financial results presented in the annual comprehensive financial report is the demonstration of the commitment that each GLWA team member has to accountability for the resources we are given. In addition, a special acknowledgement is in order for the members of the Financial Services Area – who consistently excel in delivering quality, transparent financial reporting all year in addition to this annual comprehensive financial report.

### **Collaboration is at the Core of a Successful Regional Water Authority**

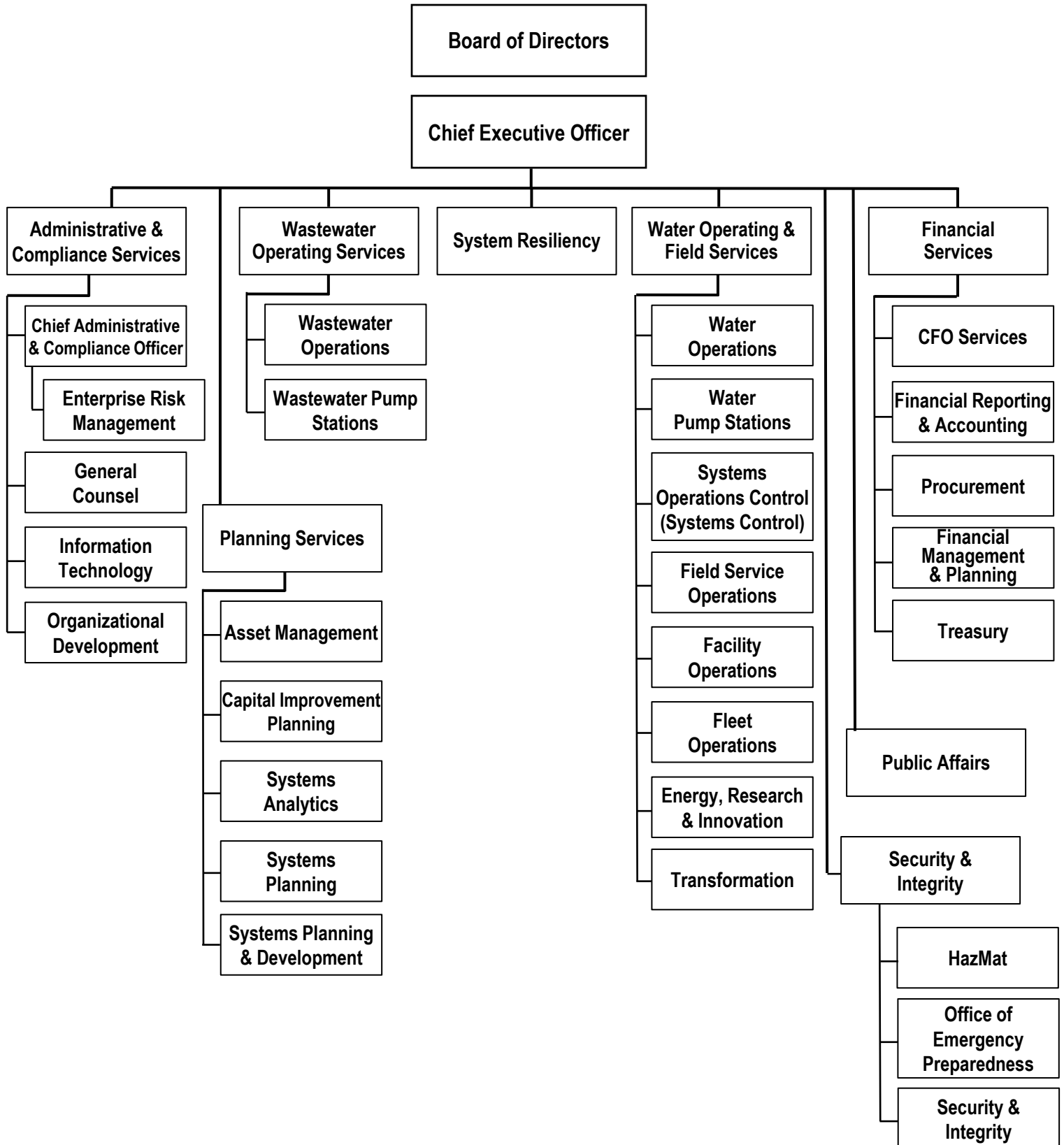
When we say “our” system, it is “our” system that we mutually support and foster in collaboration with our member partners, team members, vendor community, Board of Directors, other stakeholders, and the public at-large. Now, more than ever, thank you for your continued engagement.

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

Nicolette N. Bateson, CPA  
Chief Financial Officer & Treasurer



## Organizational Line of Reporting Chart





**Great Lakes Water Authority Board of Directors  
as of June 30, 2023**

Freman Hendrix ..... GLWA Board Chairman; Representative for the City of Detroit  
 Brian Baker ..... GLWA Board Vice-Chair; Representative for Macomb County  
 Mark Miller ..... GLWA Board Secretary, Representative for the State of Michigan  
 Gary A. Brown.....GLWA Board Representative for the City of Detroit  
 Jaye Quadrozzi .....GLWA Board Representative for Oakland County  
 John J. Zech.....GLWA Board Representative for Wayne County

**Great Lakes Water Authority Executive Leadership Team  
as of June 30, 2023**

Suzanne R. Coffey, P.E. .... Chief Executive Officer  
 William M. Wolfson \* ..... Chief Administrative and Compliance Officer  
 Nicolette N. Bateson, CPA.....Chief Financial Officer/Treasurer - Financial Services  
 Cheryl D. Porter ..... Chief Operating Officer – Water Operating Services  
 Navid Mehram, P.E. .... Chief Operating Officer – Wastewater Operating Services  
 Jody Caldwell, P.E. .... Chief Planning Officer  
 Jeffrey E. Small ..... Chief Information Officer  
 W. Barnett Jones..... Chief Security & Integrity Officer  
 Randal M. Brown \* ..... General Counsel  
 Michelle A. Zdrodowski ..... Chief Public Affairs Officer  
 Jordie Kramer..... Chief Organizational Development Officer

\* Effective October 9, 2023, William Wolfson added Interim General Counsel to his responsibility due to the departure of Randal M. Brown. He will retain that responsibility until the General Counsel position is filled.

**Our Mission**

To exceed our member partners' expectations by utilizing best practices in the treatment and transmission of water and wastewater, while promoting healthy communities and economic growth.

**Our Vision**

Through regional collaboration, GLWA strives to be the provider of choice, dedicated to efficiently delivering the nation's best water and sewer services in partnership with our member partners.



Government Finance Officers Association

Certificate of  
Achievement  
for Excellence  
in Financial  
Reporting

Presented to

**Great Lakes Water Authority  
Michigan**

For its Annual Comprehensive  
Financial Report  
For the Fiscal Year Ended

June 30, 2022

*Christopher P. Morill*

Executive Director/CEO

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**FINANCIAL SECTION**



## Independent Auditors' Report

To the Board of Directors of  
Great Lakes Water Authority

### Report on the Audit of the Financial Statements

#### ***Opinions***

We have audited the accompanying financial statements of the business-type activities, and each major fund of the Great Lakes Water Authority (the Authority), as of and for the year ended June 30, 2023, and the related notes to the financial statements, which collectively comprise the Authority's basic financial statements as listed in the table of contents.

In our opinion, the accompanying financial statements referred to above present fairly, in all material respects, the respective financial position of the business-type activities, and each major fund of the Authority as of June 30, 2023 and the respective changes in the financial position and, cash flows thereof for the year then ended in accordance with accounting principles generally accepted in the United States of America.

#### ***Basis for Opinions***

We conducted our audit in accordance with auditing standards generally accepted in the United States of America (GAAS) and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States (*Government Auditing Standards*). Our responsibilities under those standards are further described in the Auditors' Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of the Authority and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audit. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

#### ***Responsibilities of Management for the Financial Statements***

Management is responsible for the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America; and for the design, implementation and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the Authority's ability to continue as a going concern for twelve months beyond the financial statement date, including any currently known information that may raise substantial doubt shortly thereafter.

***Auditors' Responsibilities for the Audit of the Financial Statements***

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditors' report that includes our opinions. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with GAAS and *Government Auditing Standards* will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with GAAS and *Government Auditing Standards*, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Authority's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about the Authority's ability to continue as a going concern for a reasonable period of time.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings and certain internal control-related matters that we identified during the audit.

***Required Supplementary Information***

Accounting principles generally accepted in the United States of America require that the required supplementary information, as listed in the table of contents be presented to supplement the basic financial statements. Such information is the responsibility of management and, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

***Supplementary Information***

Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise the Authority's basic financial statements. The supplementary information as listed in the table of contents is presented for purposes of additional analysis and is not a required part of the basic financial statements. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the basic financial statements. The information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the supplementary information is fairly stated in all material respects, in relation to the basic financial statements as a whole.

***Other Information***

Management is responsible for the other information, the introductory section and statistical section, of the annual comprehensive financial report (annual report). The other information comprises the other information included in the annual report but does not include the basic financial statements and our auditors' report thereon. Our opinions on the basic financial statements do not cover the other information, and we do not express an opinion or any form of assurance thereon.

In connection with our audit of the basic financial statements, our responsibility is to read the other information and consider whether a material inconsistency exists between the other information and the basic financial statements, or the other information otherwise appears to be materially misstated. If, based on the work performed, we conclude that an uncorrected material misstatement of the other information exists, we are required to describe it in our report.

***Report on Summarized Comparative Information***

We have previously audited the Authority's 2022 financial statements, and we expressed unmodified audit opinions on the respective financial statements of the business-type activities, and each major fund in our report dated December 14, 2022. In our opinion, the summarized comparative information presented herein as of and for the year ended June 30, 2022, is consistent, in all material respects, with the audited financial statements from which it has been derived.

***Other Reporting Required by Government Auditing Standards***

In accordance with *Government Auditing Standards*, we have also issued our report dated December 13, 2023 on our consideration of the Authority's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts and grant agreements and other matters. The purpose of that report is solely to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the Authority's internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the Authority's internal control over financial reporting and compliance.

Madison, Wisconsin  
December 13, 2023





## MANAGEMENT'S DISCUSSION AND ANALYSIS

## GREAT LAKES WATER AUTHORITY

## Management's Discussion and Analysis

## June 30, 2023

The management of the Great Lakes Water Authority (GLWA or Authority) presents this discussion and analysis of GLWA's financial position and changes in financial position as of and for the fiscal year ended June 30, 2023. The Management's Discussion and Analysis (MD&A) should be read in conjunction with GLWA's basic financial statements and the related notes to the financial statements in addition to the transmittal letter provided in this report.

GLWA began operations on January 1, 2016. This discussion starts with the GLWA's accounting framework followed by an overview of the financial statements and then the financial analysis. Information in condensed format compares the fiscal year ended June 30, 2023 to the fiscal year ended June 30, 2022 for Total Business-type activities for the Statement of Net Position. The condensed format of the Statement of Changes in Net Position is presented for the Total Business-type activities. Financial analysis of this statement is explained by an analysis of the two major funds changes in net position. Comparison analysis is also provided for the fiscal year ended June 30, 2022 to the fiscal year ended June 30, 2021.

**Accounting Framework**

GLWA leases the regional system assets from the City of Detroit. In order to understand the GLWA's financial activity, it is helpful to revisit key financial reporting categories impacted by the accounting for the start-up of the Authority. The Regional System Leases which transferred the regional water system and sewage disposal system assets and operations to the GLWA are recorded based upon GASB 69, Government Combinations and Disposals of Government Operations. Accounting for the regional system leases under GASB 69 resulted in the following Statement of Net Position categories.

**Capital Assets:** Based on the terms of the transaction, and GASB 69 requirements, the assets subject to lease are recorded as capital assets by GLWA. The capital assets acquired were recorded at "acquisition value" based on a valuation performed by a certified appraisal firm as of January 1, 2016. This resulted in an overall increase in capital asset value from the predecessor entity's historical cost. Accordingly, the depreciable lives were reviewed and, in several cases shortened, which has increased annual depreciation expense.

**Bonded Indebtedness:** The outstanding bonded indebtedness of the predecessor entity (DWSD) was assumed in its entirety by GLWA. GASB 69 also required debt to be recorded at acquisition value.

**Net Pension Liability:** The net pension liability represents the Regional Systems' share of the frozen, defined benefit City of Detroit GRS pension assigned to DWSD in the City of Detroit's Chapter 9 Bankruptcy Plan of Adjustment. On January 24, 2017, the parties agreed that 70.3 percent of the liability was allocable to the GLWA regional operations and 29.7 percent to DWSD and is the basis of allocation for future pension contributions. That net pension liability is further subdivided between the Water Fund and the Sewage Disposal Fund for each entity.

**BC Note Obligation:** The BC Note obligation payable represents the Regional Systems' share of the B and C Note Obligations assigned to DWSD in the City of Detroit's Chapter 9 Bankruptcy Plan of Adjustment. The B and C Note Obligations refers to the debt service on the City of Detroit Financial Recovery Bonds dated December 10, 2014. Those bonds were issued to satisfy claims relating to the City's pension obligation certificates and postemployment healthcare benefits. GLWA's portion of the liability was estimated at 71.42 percent of the total DWSD liability.

## GREAT LAKES WATER AUTHORITY

## Management's Discussion and Analysis

**Beginning Net Position:** The acquisition value of assets acquired exceeded the liabilities assumed by \$736.5 million in total with \$457.9 million attributable to the Water Fund and \$278.6 million attributable to the Sewage Disposal Fund. In accordance with GASB 69, the opening capital assets were adjusted by an amount to establish a total net position of zero as of January 1, 2016.

**Contractual Obligation Receivable:** This represents DWSD's allocable portion of the long-term bonded indebtedness assumed by GLWA on January 1, 2016 for local system capital improvements in previous years. This receivable is amortized annually in an agreed upon amount that approximates debt service. If new debt is issued on behalf of DWSD, the receivable is increased.

**Regional System Lease Payable:** The regional system lease payable is the net present value of the lease payment of \$50 million per year for 40 years payable to the DWSD with \$22.5 million paid to the DWSD local water system and \$27.5 million paid to the DWSD local sewer system based on a 4.17 percent borrowing rate for both systems.

Since GLWA assumed the outstanding bonded indebtedness, retail customer revenues are pledged for payment of outstanding bonded indebtedness assumed by GLWA. For this reason, pursuant to the terms of the Regional System Leases, DWSD is GLWA's agent for retail billing, collections, and enforcement.

### Overview of the Financial Statements

This discussion and analysis is intended to serve as an introduction to the Authority's basic financial statements. The basic financial statements are comprised of the following:

The *statement of net position* presents information on the Authority's assets, deferred outflows of resources, liabilities, and deferred inflows of resources, with the residual reported as net position.

The *statement of revenues, expenses and changes in net position* presents information showing how the Authority's net position changed during the year. All changes in net position are reported as soon as the underlying event giving rise to the change occurs, *regardless of the timing of related cash flows*. Thus, revenues and expenses are reported for some items that will result in cash flows in future fiscal periods.

The *statement of cash flows* provides information about the Authority's cash receipts, cash payments and net changes in cash and cash equivalents resulting from operating, investing and capital and non-capital financing activities for the fiscal year.

The *notes to the financial statements* provide additional information that is essential to a full understanding of the data provided in the basic financial statements.

This report also contains other supplementary information in addition to the basic financial statements themselves. These schedules provide additional financial, budgetary, statistical, trend, and economic information that may be helpful to the readers of these financial statements.

**GREAT LAKES WATER AUTHORITY****Management's Discussion and Analysis**

A combining statement for the water fund and for the sewage disposal fund are provided in the supplementary financial information. Each of these major funds consists of three funds that align with the Authority's strategic and budgetary focus of managing capital investment for both the Regional Water System and Regional Sewage Disposal System: 1) operations (low capital investment), 2) improvement and extension (moderate capital investment and financial mechanism to lower borrowings and the related cost of capital over the long term), and 3) construction projects (high capital investment). The separate water and sewage disposal funds are required by the MBO. A separate credit rating is established for each system and services provided to the member partner communities by each system are separate and distinct (although many may geographically overlap).

**Financial Analysis**

Summaries of the basic financial statements and related commentaries are presented below. The tables presented in the MD&A may not foot as they are displayed in thousands. The totals are based on the underlying data in the table.

**Net Position (Deficit)**

Net position is defined by the accounting standards as the residual of all other elements presented in a statement of financial position. It is the difference between (a) assets and deferred outflows of resources and (b) liabilities and deferred inflows of resources. A net deficit occurs when the liabilities and deferred inflows exceed assets and deferred outflows. Deferred inflows and deferred outflows generally relate to financing activity and GLWA's share of the GRS pension obligation.

## GREAT LAKES WATER AUTHORITY

## Management's Discussion and Analysis

Net Position (\$000)							
Fiscal Year			Change 2023 vs 2022		Change 2022 vs 2021		
2023	2022	2021	Amount	Percent	Amount	Percent	
<b>Assets</b>							
Current assets	\$ 735,531	\$ 933,790	\$ 1,053,770	\$ (198,259)	-21.2%	\$ (119,980)	-11.4%
Restricted assets	648,202	45,956	43,929	602,246	1310.5%	2,026	4.6%
Capital assets	4,408,642	4,415,024	4,458,165	(6,382)	-0.1%	(43,141)	-1.0%
Other noncurrent assets	939,193	961,062	980,169	(21,869)	-2.3%	(19,107)	-1.9%
Total assets	<u>6,731,569</u>	<u>6,355,832</u>	<u>6,536,034</u>	<u>375,737</u>	<u>5.9%</u>	<u>(180,202)</u>	<u>-2.8%</u>
<b>Deferred outflows of resources</b>							
	<u>181,672</u>	<u>182,497</u>	<u>225,074</u>	<u>(825)</u>	<u>-0.5%</u>	<u>(42,577)</u>	<u>-18.9%</u>
<b>Liabilities</b>							
Current liabilities	457,377	366,461	338,292	90,916	24.8%	28,169	8.3%
Long-term debt	5,633,439	5,295,565	5,469,009	337,873	6.4%	(173,444)	-3.2%
Net pension liability	63,175	65,221	144,305	(2,047)	-3.1%	(79,084)	-54.8%
Other liabilities	909,506	910,224	923,254	(718)	-0.1%	(13,030)	-1.4%
Total liabilities	<u>7,063,496</u>	<u>6,637,471</u>	<u>6,874,860</u>	<u>426,025</u>	<u>6.4%</u>	<u>(237,388)</u>	<u>-3.5%</u>
<b>Deferred inflows of resources</b>							
	<u>81,327</u>	<u>120,157</u>	<u>96,380</u>	<u>(38,830)</u>	<u>-32.3%</u>	<u>23,776</u>	<u>24.7%</u>
<b>Net position (deficit)</b>							
Net investment in capital assets	(336,553)	(194,715)	(302,012)	(141,838)	72.8%	107,297	-35.5%
Restricted for constructions	2,181	-	-	2,181	100.0%	-	0.0%
Restricted for debt service	147,436	123,415	114,545	24,022	19.5%	8,870	7.7%
Restricted for payment assistance program	4,653	12,318	11,043	(7,666)	-62.2%	1,275	11.5%
Unrestricted	<u>(49,299)</u>	<u>(160,317)</u>	<u>(33,707)</u>	<u>111,018</u>	<u>-69.2%</u>	<u>(126,609)</u>	<u>375.6%</u>
Total net position (deficit)	<u>\$ (231,582)</u>	<u>\$ (219,299)</u>	<u>\$ (210,132)</u>	<u>\$ (12,283)</u>	<u>5.6%</u>	<u>\$ (9,167)</u>	<u>4.4%</u>

In total, GLWA ended June 30, 2023 with a \$231.6 million net deficit. This represents the combined net deficit for the water fund of \$123.9 million and \$107.7 million for the sewage disposal fund. The net deficit as of June 30, 2022 was \$219.3 million. This is the combined net deficit of \$109.3 million for the water fund and \$110 million for the sewage disposal fund. The decrease in net position for the year ended June 30, 2023 of \$12.3 million was due to a \$2.3 million improvement in the sewer fund offset by a \$14.6 million decrease in the water fund. These amounts are reported in the Statement of Revenues, Expenses, and Changes in Net Position.

## GREAT LAKES WATER AUTHORITY

**Management's Discussion and Analysis**

There are three general components of a net position which could be a deficit: 1) net investment in capital assets; 2) restricted (non-capital assets whose use is restricted less the related liabilities); and 3) unrestricted (any portion of net position not already classified in the first two categories listed). The ending net position (deficit) is the prior year's ending balance plus or minus activity for the year.

*Net investment in capital assets* is computed as the capital assets acquired (net of depreciation and amortization) less the debt incurred to acquire those assets. The balance for 2023 was a deficit balance of \$336.6 million and the balance for 2022 was a deficit of \$194.7 million. A unique historical driver of this deficit is the accounting requirement for the start-up of GLWA pursuant to GASB Statement No. 69, Government Combinations and Disposals of Government Operations. GASB 69 requires that government acquisitions measurement of assets acquired and liabilities assumed be based upon their acquisition values (market-based). The acquisition values were determined by an appraiser for the capital assets and a financial advisor for the debt. The GASB 69 adjustment related to the debt was not significant. The GASB 69 adjustment related to the capital assets resulted in a significant increase in the book value of capital assets of \$1.6 million which, in turn, has increased annual depreciation expense over the remaining life of the asset. Over time, the valuation impact will diminish. The decrease of \$141.8 million in 2023 was mainly a result of depreciation expense being higher than the debt related reductions (payments and amortization of deferred gains and losses on refundings). The improvement for 2022 of \$107.3 million was due to the use of I&E funds versus debt to pay for capital asset additions. Depreciation expense was also higher than debt related reduction for 2022, but this was offset by the amount of I&E funds used to fund the capital asset additions.

*Restricted Net Position* for construction relates to a capital contribution received during the year that is to be used for a future capital project. The total amount restricted at June 30, 2023 was \$2.2 million.

*Restricted Net Position* for debt service represents amounts that are required by the related MBO or other third-party agreements to be used for the repayment of debt. The total amount restricted at June 20, 2023 was \$147.4 million and the amount at June 30, 2022 was \$123.4 million. Changes in this category can be related to a change in the debt reserve requirement or in the amount of funds being set aside. The MBO requires funds to be set aside monthly for debt service so that the funds are available when the debt service payment is due. The increase for 2023 and 2022 is mainly due to an increase in the debt set aside payments based on future debt requirements. The debt reserve cash balances decreased by \$5 million in 2023. This was a result of reserve releases of \$12 million with the September 2022 bond transaction that was offset with investment earnings of \$7 million during the fiscal year. There was not much change in the debt reserve balances in 2022.

*Restricted Net Position* for payment assistance program represents WRAP funds that have not been spent by the service delivery partners who disburse the funds to those who meet the qualifications for assistance. Service delivery partners submit monthly statements of expenditures outlining commitments made to clients qualifying for assistance. Funds are disbursed upon review of the monthly statements of expenditure and funds available by service area. The total amount restricted at year end was \$4.7 million. This is a decrease of \$7.6 million from the prior year total of \$12.3 million. This decrease is a result of modifications to the WRAP program design and was expected as a result of increased outreach and participation.

## GREAT LAKES WATER AUTHORITY

## Management's Discussion and Analysis

*Unrestricted net position* is generally defined as the net result of the other components of total net position. The unrestricted net position is a deficit of \$49.3 million as of June 30, 2023. In 2023, the unrestricted account activities contributed to an increase in unrestricted net position by \$111 million. The decrease in 2022 was a result of using unrestricted cash and investments in the improvement and extension funds to pay for capital expenditures. The improvement and extension funds hold the revenues that are budgeted for in the revenue requirements to reduce debt financing for capital expenditures. This is part of the Authority's strategic goals to rebalance the mix of debt financing to reduce the cost of capital to become a solid AA category credit rating.

## Changes in Net Position

The following is a comparative summary of the business-type activities changes in net position for the last three years, followed by a detailed discussion of the significant changes by activity.

	Changes in Net Position (\$000)						
	Fiscal Year			Change 2023 vs 2022		Change 2022 vs 2021	
	2023	2022	2021	Amount	Percent	Amount	Percent
Operating revenues	\$ 845,686	\$ 816,345	\$ 815,369	\$ 29,341	3.6%	\$ 976	0.1%
Operating expenses	660,786	609,951	579,460	50,835	8.3%	30,491	5.3%
Operating income	184,900	206,394	235,909	(21,494)	-10.4%	(29,514)	-12.5%
Nonoperating revenues (expenses)	(199,359)	(222,552)	(230,424)	(23,193)	-10.4%	(7,871)	-3.4%
Income (loss) before capital contributions	(14,459)	(16,158)	5,485	1,699	-10.5%	(21,643)	394.6%
Capital contributions	2,176	6,991	5,960	(4,815)	-68.9%	1,031	-17.3%
Change in net position	(12,283)	(9,167)	11,445	(3,116)	34.0%	(20,612)	180.1%
Net position (deficit), beginning of year	(219,299)	(210,132)	(221,578)	(9,167)	-4.4%	11,445	5.2%
Net position (deficit), end of year	\$ (231,582)	\$ (219,299)	\$ (210,132)	\$ (12,283)	-5.6%	\$ (9,167)	-4.4%

The change in net position is a loss of \$12.3 million for 2023 which is \$3.1 million more when compared to the loss in 2022. This is mostly attributed to an increase in operating expenses of \$50.8 million offset by an increase in revenue of \$29.3 million and a decrease in nonoperating expense of \$23.2 million. There was also a decrease in capital contributions of \$4.8 million during the year. The water fund had increased operating expense of \$20.6 million and the sewage disposal fund had increased operating expenses of \$30.2 million. The nonoperating expenses decrease is a result of an increase in investment earnings of \$43 million and a decrease in the legacy pension expense of \$34.7 million, which were offset by a decrease in interest income on obligations receivable of \$1.2 million, an increase in interest expense of \$15.1 and an increase in other nonoperating expenses of \$38.2 million (which includes a discontinued capital projects expense of \$20.9 million).



## GREAT LAKES WATER AUTHORITY

## Management's Discussion and Analysis

Water Fund

Water Fund Changes in Net Position (\$000)								
Fiscal Year					Change 2023 vs 2022		Change 2022 vs 2021	
2023	Percentage of Operating Revenue	2022	2021	Amount	Percent	Amount	Percent	
Wholesale customer charges	\$ 340,594 93.6%	\$ 323,026	\$ 322,424	\$ 17,568	5.4%	\$ 602	0.2%	
Local system charges	22,834 6.3%	21,697	21,926	1,137	5.2%	(228)	-1.0%	
Other revenues	351 0.1%	234	266	117	49.7%	(31)	-11.8%	
Total operating revenues	363,779 100.0%	344,958	344,615	18,821	5.5%	343	0.1%	
Operating expenses	285,219 78.4%	264,579	250,476	20,641	7.8%	14,102	5.6%	
Operating Income	78,560 21.6%	80,379	94,139	(1,820)	-2.3%	(13,759)	-14.6%	
Nonoperating revenues (expenses)	(93,154) -25.6%	(92,380)	(94,995)	(774)	-0.8%	2,615	2.8%	
Change in net position	(14,594) -4.0%	(12,000)	(856)	(2,594)	-21.6%	(11,144)	-1301.9%	
Net position (deficit), beginning of year	(109,266)	(97,266)	(96,410)	(12,000)		(856)		
Net position (deficit), end of year	\$ (123,860)	\$ (109,266)	\$ (97,266)	\$ (14,594)	-13.4%	\$ (12,000)	-12.3%	

Operating revenues are primarily from wholesale water charges of \$341 million (93.6 percent of Water Fund revenues). The 2023 wholesale customer charges were budgeted at \$330 million based on the service charges as amended by the Board in June 2022. The increase in charges over budget is attributed to an increase in volume from that which the budget was based on. The 2022 wholesale customer charges were budgeted at \$321 million in the adopted budget which included a 1.9 percent increase in charges offset by a decrease in expected usage.

The revenue from the local system charges of \$22.8 million account for 6.3 percent of the total operating revenue. The increase in 2023 and decrease in 2022 was expected based on the adopted budget and the calculation of charges. Pursuant to the terms of the WSSA with DWSD, a \$20.7 million credit is applied against allocated water revenue requirements in the charge methodology. This credit replaces a previous ownership benefit that was in place prior to the effective date of the Regional System Lease.

Revenue and charge stability are important goals for GLWA and its member partners. Established via an engaged, collaborative process, the water charge structure is based on the following.

1. 40% is based on the average annual usage for each customer based on their 36 prior months of usage ending September 30th each year
2. 60% is based on fixed monthly charges

Fiscal year 2023 revenue billed was 100.1 percent of the amended budget meeting the goal of revenue stability and was net of the Karegnondi Water Authority (KWA) credit. Fiscal year 2022 revenue billed was 100.5 percent of the amended budget and was net of the KWA credit.

Operating income after operating expenses (including depreciation and amortization) equals \$78.6 million or 21.6 percent of operating revenue.

## GREAT LAKES WATER AUTHORITY

## Management's Discussion and Analysis

The following table details the Water Fund operating expenses.

Water Fund Operating Expenses (\$000)								
Fiscal Year					Change 2023 vs 2022		Change 2022 vs 2021	
2023	Percentage of Operating Expense	2022	2021	Amount	Percent	Amount	Percent	
Personnel	\$ 48,855 17.1%	\$ 44,893	\$ 43,889	\$ 3,963	8.8%	\$ 1,003	2.3%	
Contractual services	52,817 18.5%	50,684	40,411	2,133	4.2%	10,273	25.4%	
Utilities	33,437 11.7%	28,725	28,828	4,711	16.4%	(103)	-0.4%	
Chemicals	12,690 4.4%	7,789	6,028	4,901	62.9%	1,761	29.2%	
Supplies and other	11,926 4.2%	9,157	9,159	2,769	30.2%	(2)	0.0%	
Capital program allocation	(1,172) -0.4%	(1,618)	(2,123)	446	27.6%	505	23.8%	
Intergovernmental reimbursements	(3,386) -1.2%	(1,814)	(2,555)	(1,572)	-86.7%	741	29.0%	
Total operating expenses before depreciation and amortization	155,167 54.4%	137,816	123,638	17,351	12.6%	14,178	11.5%	
Depreciation and amortization	130,052 45.6%	126,763	126,838	3,290	2.6%	(76)	-0.1%	
Total Operating Expenses	\$ 285,219 100.0%	\$ 264,579	\$ 250,476	\$ 20,641	7.8%	\$ 14,102	5.6%	

Operating expenses of \$285.2 million represent 78.4 percent of total operating revenue which consists primarily of depreciation and amortization expense and operations and maintenance activities. Depreciation and amortization are the larger category of expense at \$130.1 million or 45.6 percent of operating expense. Given the nature of GLWA's water operations, it is expected that personnel, contractual services, and utilities would represent the higher dollar amount.

Personnel cost variance is mostly due to the change in personnel allocations from both Centralized and Administrative charges. See the Centralized Services and Administrative Services section, which is after the Sewage Disposal Fund discussions, for a discussion of these variances.

Contractual services include field services contracts for timely repairs to minimize disruption in service, technology related services for both operational and enterprise data networks, and outsourcing of janitorial, fleet, and other functions. The increase in contractual services of \$2.1 million in 2023 is a result of variances throughout various cost centers. The major variances are detailed below:

- Increase of \$1.9 million in the utilization of Systems Control contracts for the maintenance of the pump and lift stations (Lakeshore, \$0.6 million) and for SCADA services (PCI, \$1.3 million).
- Increase of \$1.8 million in Facility Operations for elevator and HVAC repairs and ground maintenance (\$1.4 million) and repairs of the Hurlbut Gate Memorial (\$0.4 million).
- Increase of \$1.4 million for the increase utilization of the water transmission main repair contracts (Lakeshore and Ric Man).
- Decrease of \$1.7 million for telecom services fees.
- Decrease of \$0.6 million recognized in Fleet Operations due to an adjustment for the true-up of shared services.
- Decrease of \$0.5 million in the year-end claims & judgements accrual.
- Decrease of \$0.3 million for COVID screening services (Hart EMS Medical).

## GREAT LAKES WATER AUTHORITY

**Management's Discussion and Analysis**

The increase in contractual services of \$10.3 million in 2022 is a result of variances throughout various cost centers. The major variances are detailed below:

- Increase of \$3.6 million in the Hydromax and Ric-Man Water Transmission Main Contracts for Field Services.
- Increase of \$3.3 million for increased sludge removal activity at Northeast Water Plant (\$1.8 million), Southwest Water Plant (\$1.3 million), and Springwells Water Plant (\$0.2 million).
- Increase of \$1.7 million due to the net change in year-end adjustment to the legal accrual (\$1.5 million) and an increase of legal services during FY 2022 (\$0.2 million).
- Increase of \$1.5 million in Asset Management for the Linear System Integrity Program (LSIP) which began in FY 2022.
- Increase of \$1.4 million related to the AT&T credit which was received in FY 2021 for overcharges on telecom services that were not billed at the contract rate.
- Increase of \$0.7 million for the increase in business insurance premiums.
- Increase of \$0.5 million recognized in Fleet Operations due to a \$1.0 credit for the true-up of shared services which was posted in FY 2021, half of which was charged to water.
- Decrease of \$1.2 million in the Field Engineering cost center as a result of a reclass of construction activity for contaminated materials that could not be capitalized. These projects were for the betterment of the system and therefore paid with I&E funds.
- Decrease of \$1.2 million in the amount recorded to water I&E for the development of the AECOM Project Management Information System (PMIS) (\$1.2 million of this project recorded to sewer I&E in FY 2022).

The cost of the utilities increase in 2023 is primarily due to the increase in kWh for electricity.

The increase in chemicals for both 2023 and 2022 is due to the increase in prices of chemicals.

The increase in supplies and other expenses in 2023 is due to increased maintenance needs at the water plants and pumping stations.

Intergovernmental reimbursements will vary year to year based on the amount of activity and any true-ups recorded. The increase in 2023 is due to mostly to an increase in activity. The decrease in reimbursements in 2022 is mostly related to a decrease in activity.

## GREAT LAKES WATER AUTHORITY

## Management's Discussion and Analysis

The following table details the Water Fund nonoperating revenue and expenses:

Water Fund Nonoperating Revenue (Expenses) (\$000)								
Fiscal Year					Change 2023 vs 2022		Change 2022 vs 2021	
2023	Percentage of Nonoperating Expense	2022	2021		Amount	Percent	Amount	Percent
Earnings (loss) on investments	\$ 16,724 -18.0%	\$ (2,361)	\$ 769		\$ 19,086	-808.2%	\$ (3,130)	-407.1%
Interest on obligations receivable	24,662 -26.5%	25,107	25,475		(445)	-1.8%	(368)	-1.4%
Interest expense	(131,162) 140.8%	(125,086)	(128,257)		(6,075)	4.9%	3,171	-2.5%
Legacy pension recovery (expense)	7,444 -8.0%	(4,988)	(8,075)		12,432	-249.2%	3,087	-38.2%
Water Residential Assistance Program	(5,023) 5.4%	(1,050)	(593)		(3,974)	378.5%	(457)	77.0%
Other	(5,798) 6.2%	15,999	15,687		(21,797)	-136.2%	312	2.0%
Total Nonoperating Revenue (Expenses)	<u>\$ (93,154) 100.0%</u>	<u>\$ (92,380)</u>	<u>\$ (94,995)</u>		<u>\$ (774)</u>	0.8%	<u>\$ 2,615</u>	-2.8%

Net nonoperating expense of \$93 million is primarily related to interest expense of \$131 million. The interest expense from debt service is \$110.1 million with the remainder related to the regional water system lease, raw water rights obligation and BC Note obligation. Offsets to the nonoperating expenses are the earnings on investments of \$16.7 million and the interest revenue on the obligations receivable of \$24.7 million, which is related to the terms of the Regional Water System Lease.

Earnings on investments increased \$19.1 million in 2023. As a result of the short-term nature of the GLWA portfolio, it is heavily impacted by changes in the Fed Funds interest rate. Earnings started to drop in 2020 as the Federal Reserve cut the Fed Funds interest rate to 0 percent in March 2020. Although the Federal Reserve started increasing the Fed Funds interest rate in March 2022, the maturity timing of the investments did not allow the Authority to benefit from the increased rates until 2023. The increase in the rates did have a negative impact of the valuation of the investments for 2022 resulting in an increase in unrealized losses for 2022. Unrealized losses most likely will not be realized as the Authority holds most investments until maturity.

The increase in interest expense in 2023 is a result of the revenue bond issue increasing the debt balance in September 2022 and an increase in the state revolving loan balances. The decrease in interest expense in 2022 is a result of a reduction in long term debt as well as the savings being realized from bond refunding transactions in 2016, 2018 and 2020.

The legacy pension expense decreases in 2023 and 2022 is mainly related to an increase in investment earnings on the plan assets to offset the expenses.

The increase in the Water Residential Assistance Program expenditures in 2023 is related to modifications in the WRAP program and was expected as a result of increased outreach and participation.

The increase in other expenditures in 2023 is related to a discontinued capital project of \$20.9 million.

## GREAT LAKES WATER AUTHORITY

## Management's Discussion and Analysis

Sewage Disposal Fund

Sewage Disposal Fund Changes in Net Position (\$000)								
Fiscal Year					Change 2023 vs 2022		Change 2022 vs 2021	
2023	Percentage of Operating Revenue	2022	2021	Amount	Percent	Amount	Percent	
Wholesale customer charges	\$ 275,918 57.3%	\$ 268,813	\$ 267,568	\$ 7,104	2.6%	\$ 1,246	0.5%	
Local system charges	191,042 39.6%	188,662	187,960	2,380	1.3%	703	0.4%	
Industrial waste charges	8,393 1.7%	8,300	8,005	93	1.1%	295	3.7%	
Pollutant surcharges	4,895 1.0%	5,182	6,720	(287)	-5.5%	(1,538)	-22.9%	
Other revenues	1,660 0.3%	429	501	1,231	286.5%	(72)	-14.3%	
Total operating revenues	481,907 100.0%	471,387	470,754	10,520	2.2%	634	0.1%	
Operating expenses	375,567 77.9%	345,372	328,983	30,195	8.7%	16,389	5.0%	
Operating Income	106,341 22.1%	126,015	141,770	(19,674)	-15.6%	(15,755)	-11.1%	
Nonoperating revenues (expenses)	(106,206) -22.0%	(130,173)	(135,429)	23,967	-18.4%	5,256	-3.9%	
Income (loss) before capital contributions	135 0.0%	(4,158)	6,341	4,293	-103.2%	(10,499)	-165.6%	
Capital contributions	2,176 0.5%	6,991	5,960	(4,815)	-68.9%	1,031	17.3%	
Change in net position	2,311 0.5%	2,833	12,301	(522)	-18.4%	(9,468)	-77.0%	
Net position (deficit), beginning of year	(110,033)	(112,867)	(125,168)	2,833	-2.5%	12,301	-9.8%	
Net position (deficit), end of year	\$ (107,722)	\$ (110,033)	\$ (112,867)	\$ 2,311	-2.1%	\$ 2,833	-2.5%	

Operating revenues are primarily from wholesale sewer charges of \$275.9 million (57.3 percent of Sewage Disposal Fund revenues). The \$7.1 million increase in 2023 wholesale customer charges is due to a \$3.2 million increase in charges and a \$3.9 million decrease in bad debt expense. Revenues were budgeted at \$272.1 million for 2022 with no expected increase in the allowance for bad debts. Actual revenues were \$272.4 with bad debt expense of \$3.6 million.

The revenue from local system charges of \$191 million account for 39.6 percent of total operating revenues. The increases in 2023 and 2022 local system charges was expected based on the adopted budget and the calculation of charges. Pursuant to the terms of the WSSA with DWSD, a \$5.516 million credit is applied against sewer charges in the charge methodology. This credit replaces a previous contractual arrangement that was in place prior to the Effective Date of the Regional System.

Industrial waste charges and pollutant surcharges represent 2.7 percent of operating revenue which are charged to non-residential users.

Wholesale contract charges are based on a "share" percentage of the annual revenue requirement billed one-twelfth each month. The shares are established based upon historical flows and are formally revisited every three years. The result is no revenue shortfall or overestimation.

Operating income after operating expenses (including depreciation and amortization) equals \$106 million or 22.1 percent of operating revenue.

## GREAT LAKES WATER AUTHORITY

## Management's Discussion and Analysis

The following table details the Sewage Disposal Fund operating expenses.

Sewage Disposal Fund Operating Expenses (\$000)								
Fiscal Year					Change 2023 vs 2022		Change 2022 vs 2021	
2023	Percentage of Operating Expense	2022	2021	Amount	Percent	Amount	Percent	
Personnel	\$ 65,953 17.6%	\$ 62,161	\$ 63,056	\$ 3,792	6.1%	\$ (895)	-1.4%	
Contractual services	64,130 17.1%	63,410	62,913	720	1.1%	497	0.8%	
Utilities	43,840 11.7%	30,930	23,921	12,910	41.7%	7,009	29.3%	
Chemicals	17,852 4.8%	12,593	7,954	5,259	41.8%	4,639	58.3%	
Supplies and other	22,646 6.0%	19,912	21,938	2,734	13.7%	(2,026)	-9.2%	
Capital program allocation	(1,017) -0.3%	(1,014)	(1,069)	(4)	0.4%	55	-5.2%	
Intergovernmental reimbursements	(1,747) -0.5%	(1,074)	(612)	(673)	62.6%	(462)	75.5%	
Total operating expenses before depreciation and amortization	211,656 56.4%	186,919	178,101	24,737	13.2%	8,817	5.0%	
Depreciation and amortization	163,911 43.6%	158,453	150,882	5,457	3.4%	7,571	5.0%	
Total Operating Expenses	<u>\$ 375,567 100.0%</u>	<u>\$ 345,372</u>	<u>\$ 328,983</u>	<u>\$ 30,195</u>	8.7%	<u>\$ 16,389</u>	5.0%	

Operating expenses of \$375.6 million represent 77.9 percent of total operating revenue which consists primarily of depreciation and amortization expense and operations and maintenance activities. Depreciation and amortization are the larger category of expense at \$163.9 million or 43.6 percent of operating expense. Given the nature of GLWA's wastewater operations, it is expected that personnel, contractual services, and utilities would represent the higher dollar amount.

Personnel cost increases in 2023 and decreases in 2022 are mainly due to the amounts charged in the allocation from both Centralized and Administrative charges. See the Centralized Services and Administrative Services section, which is after the Sewage Disposal Fund discussions, for a discussion of these variances.

Contractual services include operation and management of the Biosolids Dryer Facility (BDF), timely repairs for the Water Resources Recovery Facility (WRRF), staff augmentation for operations, technology related services for both operational and enterprise data networks, and outsourcing of janitorial, fleet, and other functions. Contractual services increased \$.7 million in 2023 which is mainly due to the increased utilization of the specialize services contracts for the remote site work on sewer level sensors and debris removal from the sewer pipes.

Contractual services increased \$.5 million in 2022 which is mainly due to the following:

- Increase of \$1.2 million for the development of the AECOM Project Management Information System (PMIS).
- Increase of \$1.0 million for the use of the New England Fertilizer Co. (NEFCO) contract along with the cost for the material processed through the Biosolids Dryer Facility (BDF) which is based on the increasing consumer price index (CPI).
- Decrease of \$1.7 million in the year-end claims & judgements accrual.

## GREAT LAKES WATER AUTHORITY

**Management's Discussion and Analysis**

Utilities increased \$12.9 million in 2023 mainly due to the following:

- Water – Increase of \$10.6 million due to the repair and replacement of existing water meters at the WRRF. Water bills are now being produced with actual readings which are higher than prior years billings. In addition, a new water billing structure was implemented in early FY 2023 which has resulted in an increase in the water billing rate for several of the wastewater facilities.
- Gas – Increase of \$2.2 million due to the continued increase of natural gas cost per MMBTU. In addition, an increase in production has continued at the BDF and wastewater incineration which has led to an increase in natural gas usage.

Utilities increased \$7 million in 2022 due to the following:

- Water – Increase of \$1.7 million due to the repair and replacement of existing meters at the WRRF. Water bills are now being produced with actual readings which are higher than prior years billings.
- Gas – Increase of \$2.5 million due to the cost of natural gas MMBTU which has increased significantly over the past two years. In addition, the BDF and wastewater incineration has had an increase in production which has led to an increase in natural gas usage.
- Electric – Increase of \$2.6 million is the result of DTE changing from a nuclear surcharge recovery to a volumetric delivery surcharge. This change has resulted in an increase to the charge for kWh. In addition, the on-demand rate for electricity significantly increased in FY 2022 due to the wet weather events which resulted in increased usage.
- Sewage – Increase of \$0.2 million is due to the increase in the cost per acre related to drainage charges at various wastewater facilities.

The increase in chemicals in 2023 and 2022 is due to the increase in prices of chemicals as well as the increase in wet weather events which resulted in a need for increase chemical usage.

The supplies and other expenses increased of \$2.7 million in 2023 mainly due to the following:

- Increase of \$1.5 million in allocated supplies and other centralized services. See the Centralized Services and Administrative Services section, which is after the Sewage Disposal Fund discussions, for a discussion of these variances.
- \$1.2 million primarily due to the increased need for the repairs to, and replacement of, equipment at various wastewater facilities.

The supplies and other expenses decreased of \$2 million in 2022 mainly due to the decrease in the number of inspections and amount of permit fees.

Intergovernmental reimbursements will vary year to year based on the amount of activity and any true-ups recorded. The increases in 2023 and 2022 are due to mostly to an increase in activity.



## GREAT LAKES WATER AUTHORITY

## Management's Discussion and Analysis

The following table details the Sewage Disposal Fund nonoperating revenue and expenses:

Sewage Disposal Fund Nonoperating Revenue (Expenses) (\$000)								
Fiscal Year					Change 2023 vs 2022		Change 2022 vs 2021	
2023	Percentage of Nonoperating Expense	2022	2021	Amount	Percent	Amount	Percent	
Earnings (loss) on investments								
\$ 20,877	-19.7%	\$ (3,023)	\$ 491	\$ 23,900	-790.6%	\$ (3,514)	-716.0%	
Interest on shortfall and obligations receivable								
16,397	-15.4%	17,158	18,248	(760)	-4.4%	(1,090)	-6.0%	
Interest expense								
(140,129)	131.9%	(131,110)	(135,228)	(9,019)	6.9%	4,118	-3.0%	
Legacy pension recovery (expense)								
13,322	-12.5%	(8,927)	(14,453)	22,249	-249.2%	5,525	-38.2%	
Water Residential Assistance Program								
(7,319)	6.9%	(1,743)	(924)	(5,576)	319.9%	(819)	88.6%	
Other								
(9,354)	8.8%	(2,527)	(3,563)	(6,826)	270.1%	1,035	-29.1%	
Total Nonoperating Revenue (Expenses)								
\$ (106,206)	100.0%	\$ (130,173)	\$ (135,429)	\$ 23,967	-18.4%	\$ 5,256	-3.9%	

Net nonoperating expense of \$106.2 million is primarily related to \$140.1 million of interest expense. Interest expense from debt service is \$118 million with the remainder related to the regional sewage disposal system lease, BC Note obligation and lease payable for the right to use asset. Offsets to the operating expenses are the earning on investments of \$20.9 million and interest revenue of \$16.4 million on the obligations receivable, which is related to the terms of the Regional Sewage Disposal Lease.

Earnings on investments increased \$23.9 million in 2023. As a result of the short-term nature of the GLWA portfolio, it is heavily impacted by changes in the Fed Funds interest rate. Earnings started to drop in 2020 as the Federal Reserve cut the Fed Funds interest rate to 0 percent in March 2020. Although the Federal Reserve started increasing the Fed Funds interest rate in March 2022, the maturity timing of the investments did not allow the Authority to benefit from the increased rates until 2023. The increase in the rates did have a negative impact of the valuation of the investments for 2022 resulting in an increase in unrealized losses for 2022. Unrealized losses most likely will not be realized as the Authority holds most investments until maturity.

Interest earnings on the shortfall and obligation receivable have decreased for 2023 and 2022 as the balances are being paid down. The shortfall receivable was paid off in 2022.

The increase in interest expense in 2023 is a result of the revenue bond issue increasing the debt balance in September 2022 and an increase in the state revolving loan balances. The decrease in interest expense in 2022 is a result of a reduction in long term debt as well as the savings being realized from bond refunding transactions in 2016, 2018 and 2020.

The legacy pension expense decreases in 2023 and 2022 is mainly related to an increase in investment earnings on the plan assets to offset the expenses.

The increase in the Water Residential Assistance Program expenditures in 2023 is related to modifications in the WRAP program and was expected as a result of increased outreach and participation.

The increase in other expenses in 2023 is related to an increase in debt related amortization cost.



## GREAT LAKES WATER AUTHORITY

## Management's Discussion and Analysis

Centralized Services and Administrative Services

The following table summarizes the activity for centralized services and administrative services.

	Centralized and Administrative Services (\$000)										
Fiscal Year				Change 2023 vs 2022				Change 2022 vs 2021			
				Amount	Percent	Variance Allocation		Amount	Percent	Variance Allocation	
2023	2022	2021	Water			Sewer	Water			Sewer	
Centralized Services											
Personnel	\$ 33,708	\$ 31,777	\$ 30,318	\$ 1,931	6.1%	\$ 985	\$ 946	\$ 1,459	4.8%	\$ 2,307	\$ (847)
Contractual services	54,652	50,777	48,802	3,875	7.6%	2,763	1,111	1,975	4.0%	7,946	(5,971)
Utilities	170	141	136	29	20.6%	16	14	5	3.7%	3	2
Supplies and other expenses	11,149	9,027	8,873	2,122	23.5%	942	1,180	154	1.7%	0	153
Total Centralized Services											
	\$ 99,679	\$ 91,722	\$ 88,129	\$ 7,957	8.7%	\$ 4,707	\$ 3,251	\$ 3,593	4.1%	\$ 10,256	\$ (6,663)
Administrative Services											
Personnel	\$ 19,429	\$ 16,938	\$ 17,823	\$ 2,491	14.7%	\$ 1,245	\$ 1,245	\$ (885)	-5.0%	\$ (443)	\$ (443)
Contractual services	13,741	14,950	6,524	(1,209)	-8.1%	(933)	(276)	8,426	129.2%	2,383	6,043
Utilities	160	160	24	-	0.0%	(0)	(0)	136	566.7%	68	68
Supplies and other expenses	2,000	1,344	846	656	48.8%	289	367	498	58.9%	79	419
Total Administrative Services											
	\$ 35,330	\$ 33,392	\$ 25,217	\$ 1,938	5.8%	\$ 602	\$ 1,337	\$ 8,175	32.4%	\$ 2,088	\$ 6,087

Centralized services personnel costs increased \$1.9 million in 2023. This increase is due to salary and wage increases as well as vacancies being filled during FY 2023. Centralized services personnel costs increased \$1.5 million in 2022. Part of this increase was a result of moving the Transformation department to a centralized service classification from the administrative services classification (increase of \$0.6 million to centralized services). The balance of the increase in centralized services is due to increases in personnel costs of \$0.9 million in Security, Systems Operations Control, and Field Services primarily due to overtime.

Administrative personnel costs increased \$2.5 million in 2023. This increase is due to salary and wage increases as well as vacancies being filled during FY 2023. Administrative personnel costs decreased \$0.9 million in 2022. This decrease was a result of moving the transformation department from the administrative services classification to the centralized services classification (decrease of \$0.6 million to administrative services). The remainder of the decrease is due to the closing of the Data Analytics department (\$0.2 million), team members in other departments within Financial Services assumed the responsibilities previously performed in Data Analytics, and a reduction in overtime hours (\$0.1 million).

## GREAT LAKES WATER AUTHORITY

**Management's Discussion and Analysis**

Centralized contractual services increased \$3.9 million in 2023 mainly due to the following:

- Increase of \$4.0 million in the utilization of Systems Control contracts for the maintenance of the pump and lift stations (Lakeshore, \$1.0 million) and for SCADA services (PCI, \$2.3 million); and the increased utilization of the specialize services contracts for the remote site work on sewer level sensors and debris removal from the sewer pipes (\$0.7 million).
- Increase of \$3.2 million in Facility Operations for elevator and HVAC repairs and ground maintenance (\$2.8 million) and repairs of the Hurlbut Gate Memorial (\$0.4 million).
- Increase of \$1.4 million for the increase utilization of the water transmission main repair contracts (Lakeshore and Ric Man).
- Decrease of \$3.4 million for telecom services fees.
- Decrease of \$1.1 million recognized in Fleet Operations due to an adjustment for the true-up of shared services.

Centralized contractual services increased \$2 million in 2022 due to the following:

- Increase of \$2.7 million related to the AT&T credit which was received in FY 2021 for overcharges on telecom services that were not billed at the contract rate.
- Increase of \$1.5 million in Asset Management for the Linear System Integrity Program (LSIP) which began in FY 2022.
- Increase of \$1.0 million related to the wet weather events for Field Services to remove the storm borne solids from three Outfall sites (\$0.5 million), CCTV footage taken of the east side sewer system (\$1.0 million), and a credit of \$0.5 million from insurance proceeds.
- Increase of \$1.0 million recognized in Fleet Operations due to a \$1.0 credit for the true-up of shared services which was posted in FY 2021
- Increase of \$0.2 million in elevator maintenance at various GLWA facilities.
- Decrease of \$2.1 million related to change in use of various Field Services contracts in FY 2022 (usage of these contracts varies from year-to-year) Hydromax (increase \$1.2 million), Ric-Man Water Transmission Main (increase \$2.2 million), Inland Waters Pollution Control (decrease \$5.0), and Lakeshore Global professional services (decrease \$0.5 million).
- Decrease of \$1.5 million in Capital Improvement Planning with the operations & maintenance work wrapping up for AECOM in FY 2021 and shifting to Capital.
- Decrease of \$0.8 million related to COVID-19 deep cleaning at various GLWA facilities.

Administrative contractual services decreased \$1.2 million in 2023. The major variances which total \$1.0 million are detailed below.

- Decrease of \$1.3 million related to the GLWA Board requested independent investigations for the wet weather events.
- Decrease of \$0.5 million for COVID screening services (Hart EMS Medical).
- Increase of \$0.8 million due to the change in the legal claims and adjustment accrual from FY 2022 to FY 2023 (increase of \$2.7 million), claims process and other legal services related to the wet weather events (decrease of \$1.7 million), and non-wet weather event legal services during the fiscal year (decrease of \$0.2 million).

## GREAT LAKES WATER AUTHORITY

**Management's Discussion and Analysis**

Administrative contractual services increased \$8.4 million in 2022. The major variances which total \$8.2 million are detailed below:

- Increase of \$5.5 million due to the change in the legal claims and adjustment accrual from FY 2021 to FY 2022 of \$2.9 million, claims process and other legal services related to the wet weather events of \$2.2 million, and increase of non-wet weather event legal services during the fiscal year of \$0.4 million.
- Increase of \$1.4 million for the increase in business insurance premiums.
- Increase of \$1.3 million related to the GLWA Board requested independent investigations for the wet weather events.

Centralized supplies and other expenses increased in 2023 by \$2.1 million. This increase was a result of the following:

- Increase of \$1.5 million for a full year of implementation costs for the enterprise resource planning (Workday) and enterprise asset management (NEXGEN) systems.
- Increase of \$0.3 million for flooring repairs at the water plants.
- Increase of \$0.3 million for training costs for Field Services Operations and Information Technology.

Administrative supplies and other expenses increased in 2023 by \$0.7 million mainly due to the following:

- Increase of \$0.1 million for livestreaming and video equipment, storage equipment, and shelving for Public Affairs.
- Increase of \$0.3 million for memberships and training for Organizational Development.
- Increase of \$0.2 million for the Rialto warehouse lease.

## GREAT LAKES WATER AUTHORITY

## Management's Discussion and Analysis

## Capital Assets and Debt Administration

GLWA's investment in capital assets is \$4.4 billion (net of accumulated depreciation) with \$2 billion assigned to the Water Fund and \$2.4 billion assigned to the Sewage Disposal Fund. The investment in capital assets includes land, buildings, plants, transmission lines, vehicles, machinery and equipment, raw water rights, right to use assets and prepaid subscription assets. Total net capital assets decreased in 2023 and 2022. The 2023 net decrease is attributable to depreciation and disposals in excess of current year additions. The 2022 net decrease is due to depreciation in excess of current year additions. See Note 9 to the financial statements for more information on capital assets. The Authority implemented GASB 89 during FY 2018 and no longer capitalizes interest expense.

	Capital Assets, Net (\$000)						
	Fiscal Year			Change 2023 vs 2022		Change 2022 vs 2021	
	2023	2022	2021	Amount	Percent	Amount	Percent
Land	\$ 62,975	\$ 63,302	\$ 62,311	\$ (326)	-0.5%	\$ 991	1.6%
Easements	357,457	357,448	355,202	9	0.0%	2,247	0.6%
Construction in progress	662,933	466,055	395,973	196,878	42.2%	70,081	17.7%
Site improvements	39,640	49,413	58,815	(9,772)	-19.8%	(9,403)	-16.0%
Buildings and structures	1,227,922	1,285,452	1,322,619	(57,530)	-4.5%	(37,168)	-2.8%
Infrastructure	922,572	956,329	1,002,945	(33,756)	-3.5%	(46,617)	-4.6%
Machinery and equipment	1,021,687	1,123,750	1,144,125	(102,063)	-9.1%	(20,375)	-1.8%
Vehicles	7,901	7,198	7,077	703	9.8%	121	1.7%
Leasehold improvements	9,521	10,297	10,444	(776)	-7.5%	(148)	-1.4%
Intangible assets	96,033	95,782	98,653	251	0.3%	(2,871)	-2.9%
Total capital assets (net of depreciation and amortization)	<u>\$ 4,408,642</u>	<u>\$ 4,415,024</u>	<u>\$ 4,458,165</u>	<u>\$ (6,382)</u>	-0.1%	<u>\$ (43,141)</u>	-1.0%

## GREAT LAKES WATER AUTHORITY

## Management's Discussion and Analysis

Water Fund

There are ten major categories used for classification of capital assets for financial reporting purposes.

Water Fund Capital Assets, Net (\$000)							
	Fiscal Year			Change 2023 vs 2022		Change 2022 vs 2021	
	2023	2022	2021	Amount	Percent	Amount	Percent
Land	\$ 34,478	\$ 34,907	\$ 34,168	\$ (429)	-1.2%	\$ 739	2.2%
Easements	259,139	259,139	258,990	-	0.0%	149	0.1%
Construction in progress	374,244	272,954	204,853	101,290	37.1%	68,101	33.2%
Site improvements	22,560	29,415	36,449	(6,856)	-23.3%	(7,033)	-19.3%
Buildings and structures	389,421	409,923	420,686	(20,502)	-5.0%	(10,763)	-2.6%
Infrastructure	400,027	419,969	458,734	(19,942)	-4.7%	(38,765)	-8.5%
Machinery and equipment	421,616	424,120	397,660	(2,504)	-0.6%	26,460	6.7%
Vehicles	3,233	2,992	3,230	241	8.0%	(238)	-7.4%
Leasehold improvements	6,698	7,240	7,796	(543)	-7.5%	(556)	-7.1%
Intangible assets	89,783	91,067	94,219	(1,284)	-1.4%	(3,153)	-3.3%
Total water fund capital assets (net of depreciation and amortization)	<u>\$ 2,001,197</u>	<u>\$ 1,951,726</u>	<u>\$ 1,916,784</u>	<u>\$ 49,471</u>	2.5%	<u>\$ 34,942</u>	1.8%

Water Fund additions in 2023 and 2022 were mainly due to transfers out of construction in progress to the applicable asset category. Total additions in FY 2023 to construction in progress was \$195.5 million and transfers out of \$72.7 million. The total additions in FY 2022 to the construction in progress were \$158.7 million with \$90.6 million transferred to capital assets. The following table summarizes major projects for the last two years. Comprehensive project plan details can be found within Capital Improvement Plan documents available at <https://www.glwater.org/cip/>.

## GREAT LAKES WATER AUTHORITY

## Management's Discussion and Analysis

Water Fund (millions)								
Project Number	Description	Expected Completion Date	Project Plan Estimate	Expenditures		Placed in Service		CIP at 6/30/2023
				FY 2022	FY 2023	FY 2022	FY 2023	
116002	Pennsylvania, Springwells and Northeast Raw Water Supply Tunnel Improvements	FY 2026	\$ 99.0	\$ 25.5	\$ 13.2	\$ -	\$ -	\$ 64.6
122013	14 Mile Transmission Main Loop	FY 2025	111.4	18.2	46.1	-	17.2	57.1
122004	96" Main Relocation, Isolation Valve	FY 2032	259.8	6.5	34.8	0.1	-	50.9
132010	West Service Center PS Reservoir, Reservoir Pumping & Division Valve Upgrades	FY 2024	45.6	19.1	14.7	-	-	42.9
115001	Water Works Park WTP Yard Piping, Valves and Venturi Meters Replacement	FY 2026	55.0	6.3	17.2	-	-	29.2
114002	Springwells WTP Low and High Lift Improvements	FY 2032	281.9	9.5	4.2	-	-	26.6
114011	Springwells WTP Steam, Condensate Return and Compressed Air Piping Improvements	FY 2028	25.9	5.5	1.7	-	24.4	1.3
114008	Springwells WTP Sedimentation Basin Sluice Gates, Guides & Hoists Improvements	FY 2022	14.0	0.6	0.4	-	11.7	0.4
341001	Security Infrastructure Improvements	FY 2022	4.2	-	-	-	9.2	-
122003	Water Works Park to Northeast Transmission Main	FY 2028	147.8	13.6	3.8	29.8	-	-
122005	Schoolcraft Road Water Transmission Main	FY 2022	15.0	8.0	3.4	13.7	-	3.4
122006	Wick Road Water Transmission Main	FY 2022	25.7	5.4	2.5	20.8	-	4.3
	Other projects			40.5	53.5	26.2	10.2	93.5
	Total			<u>\$ 158.7</u>	<u>\$ 195.5</u>	<u>\$ 90.6</u>	<u>\$ 72.7</u>	<u>\$ 374.2</u>

## GREAT LAKES WATER AUTHORITY

## Management's Discussion and Analysis

Sewage Disposal Fund

There are ten major categories used for classification of capital assets for financial reporting purposes.

Sewage Disposal Fund Capital Assets, Net (\$000)							
	Fiscal Year			Change 2023 vs 2022		Change 2022 vs 2021	
	2023	2022	2021	Amount	Percent	Amount	Percent
Land	\$ 28,498	\$ 28,395	\$ 28,143	\$ 103	0.4%	\$ 252	0.9%
Easements	98,319	98,310	96,211	9	0.0%	2,098	2.2%
Construction in progress	288,689	193,100	191,120	95,588	49.5%	1,980	1.0%
Site improvements	17,081	19,997	22,367	(2,917)	-14.6%	(2,369)	-10.6%
Buildings and structures	838,501	875,529	901,933	(37,028)	-4.2%	(26,405)	-2.9%
Infrastructure	522,545	536,359	544,212	(13,814)	-2.6%	(7,852)	-1.4%
Machinery and equipment	600,071	699,630	746,466	(99,559)	-14.2%	(46,836)	-6.3%
Vehicles	4,668	4,206	3,847	463	11.0%	359	9.3%
Leasehold improvements	2,823	3,056	2,648	(234)	-7.6%	408	15.4%
Intangible assets	6,251	4,716	4,434	1,535	32.6%	282	6.4%
Total sewage disposal fund capital assets (net of depreciation and amortization)	<u>\$ 2,407,445</u>	<u>\$ 2,463,298</u>	<u>\$ 2,541,381</u>	<u>\$ (55,853)</u>	<u>-2.3%</u>	<u>\$ (78,083)</u>	<u>-3.1%</u>

Sewage Disposal Fund additions in 2023 and 2022 were mainly due to transfers out of construction in progress to the applicable asset category. Total additions for FY 2023 to construction in progress was \$102.5 million and transfers out of \$6.9 million. The total additions for FY 2022 to the construction in progress were \$67.4 million with \$65.5 million transferred to capital assets. Much of the activity for the year is related to the Water Resource Recovery Facility. The following table summarizes major projects for the last two years. Comprehensive project plan details can be found within Capital Improvement Plan documents available at <https://www.glwater.org/cip/>.

## GREAT LAKES WATER AUTHORITY

## Management's Discussion and Analysis

Sewage Disposal Fund (millions)								
Project Number	Description	Expected Completion Date	Project Plan Estimate	Expenditures		Placed in Service		CIP at 6/30/2022
				FY 2022	FY 2023	FY 2022	FY 2023	
222002	Detroit River Interceptor Evaluation and Rehabilitation	FY 2028	\$ 77.2	\$ 5.2	\$ 8.8	\$ -	\$ -	\$ 51.1
232001	Fairview Pumping Station - Replace Four Sanitary Pumps	FY 2023	39.8	8.4	5.0	-	-	43.7
213007	WRRF Modification to Incinerator Sludge Feed Systems at Complex - II	FY 2022	23.8	1.7	1.1	-	-	22.9
260201	Emergency Sewer Repair	FY 2023	38.3	5.8	3.8	-	-	20.2
260701	Conveyence System Infrastructure Improvements	FY 2026	55.6	0.9	10.9	-	-	13.2
260614	CSO Structural Inspection & Improvements	FY 2025	13.6	4.6	5.4	-	-	12.3
341002	Security Infrastructure Improvements	FY 2022	1.9	0.3	-	-	3.2	-
260621	Conner Creek Dike Improvements	FY 2022	2.5	1.9	-	-	2.2	-
260620	Baby Creek Roof Replacement	FY 2022	1.0	0.6	0.4	-	1.0	-
211004	Pump Station 1 Rack & Grit and MPI Sampling Station 1 Improvements	FY 2022	28.5	-	-	27.9	-	-
214001	WRRF Relocation of Industrial Waste Control Division and Analytical Laboratory Operations	FY 2022	14.3	0.1	-	12.0	-	-
260603	Conner Creek CSO RTB Automation Improvements	FY 2022	8.2	0.2	-	7.7	-	-
Other projects				37.7	67.1	17.9	0.5	125.3
Total				\$ 67.4	\$ 102.5	\$ 65.5	\$ 6.9	\$ 288.7



## GREAT LAKES WATER AUTHORITY

## Management's Discussion and Analysis

## Long-term Debt

The Authority's long-term debt consists of revenue bonds and loans as well as an obligation payable related to the City of Detroit's Financial Recovery bonds and a liability related to raw water rights that the Authority will own at the end of the agreement. See Note 12 for a complete analysis of the long-term debt. The following analysis focuses on the revenue bonds and loans. At year-end, the Authority had \$5.4 billion of long-term debt for revenue bonds and state revolving fund loans. Of the total, \$2.5 billion is assigned to the Water System and \$2.9 billion is assigned to the Sewage Disposal System.

Revenue Bonds and Loans (\$000)							
	Fiscal Year			Change 2023 vs 2022		Change 2022 vs 2021	
	2023	2022	2021	Amount	Percent	Amount	Percent
Revenue bonds	\$ 4,840,395	\$ 4,568,635	\$ 4,707,965	\$ 271,760	5.9%	\$ (139,330)	-3.0%
Capital appreciation bonds	-	-	5,675	-	0.0%	(5,675)	-100.0%
State revolving loans	557,276	489,078	488,027	68,198	13.9%	1,051	0.2%
Total revenue bonds and loans	<u>\$ 5,397,671</u>	<u>\$ 5,057,713</u>	<u>\$ 5,201,667</u>	<u>\$ 339,958</u>	6.7%	<u>\$ (143,954)</u>	-2.8%

Water Fund

The total outstanding debt for the Water System is \$2.5 billion, increasing by \$248 million from the prior year. The Authority issued \$207.2 million in revenue bonds in September 2022 which will be used for water system capital improvements.

Approximately 8 percent of the total indebtedness is issued through the State of Michigan revolving fund loan program for the benefit of the Water System. The Water System received \$104.8 million in new state revolving fund loans and received \$1.8 million in loan forgiveness. The amount of state revolving fund loans pass-through to DWSD for local system improvements was \$17.7 million as well as the \$1.8 million in loan forgiveness.

Water Fund Revenue Bonds and Loans (\$000)							
	Fiscal Year			Change 2023 vs 2022		Change 2022 vs 2021	
	2023	2022	2021	Amount	Percent	Amount	Percent
Revenue bonds	\$ 2,279,260	\$ 2,128,890	\$ 2,192,510	\$ 150,370	7.1%	\$ (63,620)	-2.9%
State revolving loans	207,357	109,429	71,260	97,928	89.5%	38,169	53.6%
Total water revenue bonds and loans	<u>\$ 2,486,617</u>	<u>\$ 2,238,319</u>	<u>\$ 2,263,770</u>	<u>\$ 248,298</u>	11.1%	<u>\$ (25,451)</u>	-1.1%

Repayment of GLWA bonds issued are funded by charges to all member partners. Repayment of the debt service assigned to DWSD for local system improvements are paid from retail customer collections by DWSD.

## GREAT LAKES WATER AUTHORITY

## Management's Discussion and Analysis

Sewage Disposal Fund

The total outstanding debt for the Sewage Disposal System is \$2.9 billion, increasing by \$91.7 million from the prior year. The Authority issued \$210.5 million in revenue bonds in September 2022, \$12.5 million of which was used for a refunding which resulted in a net present value savings from the refunding transaction of \$0.2 million. The new money portion of \$198 million will be used for sewage disposal system capital improvements.

Approximately 12 percent of the total indebtedness is issued through the State of Michigan revolving fund loan program for the benefit of the Sewage Disposal System. The Sewage Disposal System received \$18.6 million in new state revolving fund loans and received \$0.4 million in loan forgiveness. The amount of state revolving fund loans pass-through to DWSD for local system improvements was \$0.9 million as well as the \$0.4 million in loan forgiveness.

	Sewage Disposal Fund Revenue Bonds and Loans (\$000)						
	Fiscal Year			Change 2023 vs 2022		Change 2022 vs 2021	
	2023	2022	2021	Amount	Percent	Amount	Percent
Revenue bonds	\$ 2,561,135	\$ 2,439,745	\$ 2,515,455	\$ 121,390	5.0%	\$ (75,710)	-3.0%
Capital appreciation bonds	-	-	5,675	-	0.0%	(5,675)	-100.0%
State revolving loans	349,919	379,648	416,768	(29,729)	-7.8%	(37,120)	-8.9%
Total sewer revenue bonds and loans	<u>\$ 2,911,054</u>	<u>\$ 2,819,393</u>	<u>\$ 2,937,898</u>	<u>\$ 91,661</u>	3.3%	<u>\$ (118,505)</u>	-4.0%

Repayment of GLWA bonds issued are funded by charges to all member partners. Repayment of the debt service assigned to DWSD for local system improvements is paid from retail customer collections by DWSD.

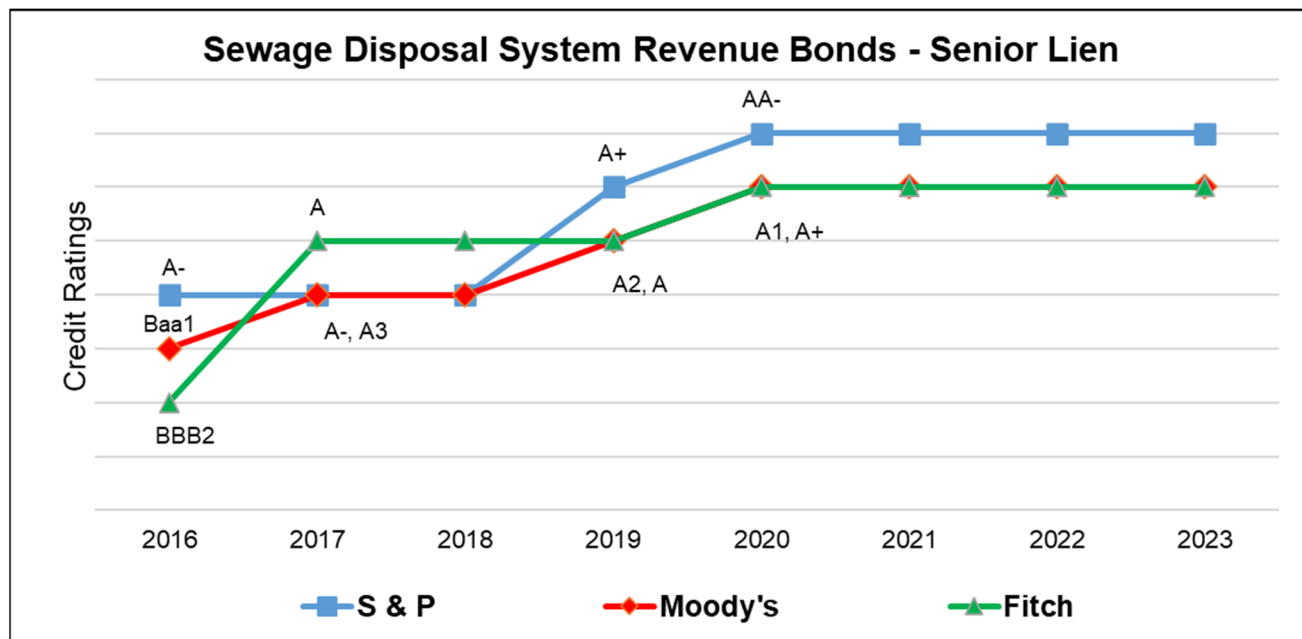
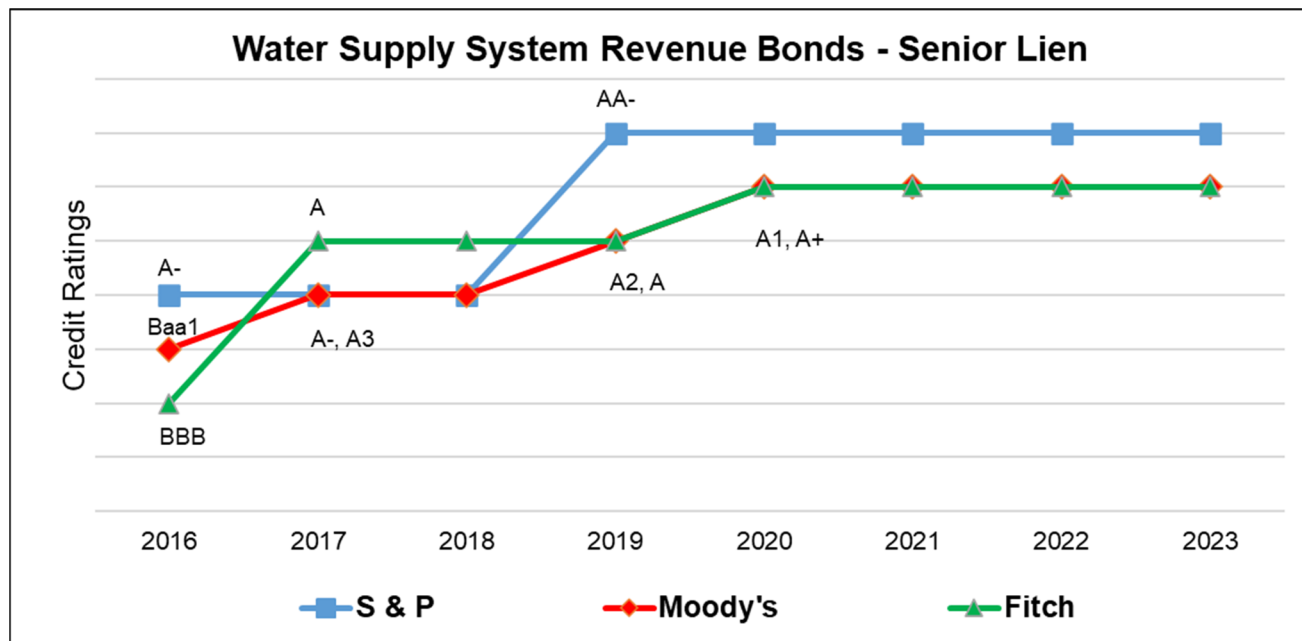
**Credit Ratings**

In October 2023, the Authority's ratings were upgraded or affirmed. Fitch Ratings affirmed the ratings for the water system with senior lien debt at A+ and second lien at A, the water system remained a stable outlook; Fitch Ratings upgraded the sewage disposal system senior lien to AA- and second lien to A+, the outlook remained positive; Standard & Poor's affirmed the Authority's ratings with senior lien debt at AA- and second lien at A+, all with a stable outlook; and Moody's upgraded the Authority's ratings of senior lien debt at Aa3 and second lien at A1, the outlook was moved to stable from positive for both the water system and the sewage disposal system.

## GREAT LAKES WATER AUTHORITY

## Management's Discussion and Analysis

The following charts provide the credit rating history, at the end of each fiscal year, for senior lien revenue bonds since the GLWA began operations in 2016.



Additional information on the Authority's long-term debt can be found in Note 12.

**GREAT LAKES WATER AUTHORITY****Management's Discussion and Analysis****Economic Factors Affecting Next Year's Operations and Rates**

On February 22, 2023, the GLWA Board adopted the biennial budget for the Authority for fiscal years 2024 and 2025. That two-year financial plan remains true to a foundational commitment to control the budget within a 4 percent revenue cap as further described below.

**Water Fund**

For FY 2024 the budget increased by 4 percent. This translated into a regional system average charge increase of 2.75 percent and suburban wholesale member partner average charge increase of 2.1 percent depending on each customers contractual adjustments and results of the fiscal year 2024 Water cost of Service study. The local system charge increased 6.2 percent.

**Sewage Disposal Fund**

For FY 2024 the budget increased by 4 percent. This translated into a regional system average charge increase of 2.75 percent and suburban wholesale member partner average charge increase of 2.6 percent depending on each customers contractual adjustments. The local system charge increased 2.8 percent.

**City of Highland Park**

In October, the Authority, the City of Highland Park (HP) and the State of Michigan (State) executed a term sheet which provides an outline for the resolution to the years of ongoing litigation. The term sheet provides for payment assurances from HP, investment in capital improvements for GLWA and HP funded by the State, and installation of meters funded by the State to create confidence that HP is being billed equitably for its use of the regional water and sewer systems.

**Requests for Information**

This financial report is designed to provide a general overview of GLWA's finances for all those with an interest in the Authority's finances. Questions concerning any of the information provided in this report or requests for additional financial information should be addressed to Great Lakes Water Authority, Office of the Chief Financial Officer, 735 Randolph, Detroit, Michigan 48226. This report is also available on the Authority's website at [www.glwater.org](http://www.glwater.org).

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## **BASIC FINANCIAL STATEMENTS**

## GREAT LAKES WATER AUTHORITY

DRAFT 12.4.23

## STATEMENT OF NET POSITION

As of June 30, 2023

With Comparative Amounts at June 30, 2022

	Enterprise Funds		Total	2022 Total
	Water	Sewage	Business-type	Business-type
	Fund	Disposal Fund	Activities	Activities
<b>Assets</b>				
Current Assets				
Cash and cash equivalents	\$ 222,625,550	\$ 260,110,098	\$ 482,735,648	\$ 347,655,417
Restricted cash and cash equivalents	127,679,570	137,098,372	264,777,942	87,643,974
Restricted cash for the benefit of DWSD	17,474,699	24,989,273	42,463,972	20,469,633
Investments	21,081,772	42,159,523	63,241,295	185,209,092
Restricted investments	9,975,144	33,698,337	43,673,481	103,754,094
Receivables, net	72,947,774	37,685,656	110,633,430	117,756,554
Due from other governments	5,785,565	6,095,717	11,881,282	13,454,460
Due from other funds	1,032,754	2,214,714	3,247,468	2,328,086
Contractual obligation receivable	20,608,286	16,060,725	36,669,011	33,529,695
Prepaid items and other assets	10,795,086	5,678,605	16,473,691	13,622,385
Inventories	-	10,649,496	10,649,496	8,366,771
Total Current Assets	510,006,200	576,440,516	1,086,446,716	933,790,161
Noncurrent Assets				
Restricted cash and cash equivalents	96,480,165	66,482,098	162,962,263	5,264,591
Restricted investments	22,002,166	112,322,569	134,324,735	40,691,319
Contractual obligation receivable	544,820,801	354,229,111	899,049,912	919,288,110
Prepaid lease	11,250,000	13,750,000	25,000,000	25,000,000
Capital assets				
Nondepreciable/nonamortizable	670,557,112	418,201,364	1,088,758,476	887,940,328
Depreciated/amortized, net	1,330,639,811	1,989,243,893	3,319,883,704	3,527,083,870
Prepaid insurance on debt	5,995,322	9,147,648	15,142,970	16,773,793
Total Noncurrent Assets	2,681,745,377	2,963,376,683	5,645,122,060	5,422,042,011
Total Assets	3,191,751,577	3,539,817,199	6,731,568,776	6,355,832,172
<b>Deferred Outflows of Resources</b>				
Deferred charge on refunding	39,316,288	94,632,191	133,948,479	152,338,303
Deferred pension amounts	17,107,308	30,616,652	47,723,960	30,158,700
Total Deferred Outflows of Resources	56,423,596	125,248,843	181,672,439	182,497,003

The accompanying notes are an integral part of these financial statements.

	Enterprise Funds		Total	2022 Total
	Water	Sewage	Business-type	Business-type
	Fund	Disposal Fund	Activities	Activities
<b>Liabilities</b>				
Current Liabilities				
Accounts and contracts payable	\$ 60,207,304	\$ 53,101,194	\$ 113,308,498	\$ 94,379,034
Accrued salaries, wages and benefits	1,757,758	305,601	2,063,359	2,060,030
Accrued liabilities	25,111,216	28,840,076	53,951,292	25,004,633
Due to other governments	3,124,058	3,750,000	6,874,058	21,360,601
Due to other funds	2,214,714	1,032,754	3,247,468	2,328,086
Interest payable	41,789,634	40,400,733	82,190,367	70,965,548
Current portion of				
Revenue bonds and loans	62,332,082	87,393,258	149,725,340	127,403,800
Raw water rights obligation	2,963,619	-	2,963,619	2,845,282
BC Note obligation	214,151	481,694	695,845	662,710
Regional system leases	5,928,467	7,245,904	13,174,371	12,637,211
Other liabilities	3,743,223	25,439,622	29,182,845	6,813,946
Total Current Liabilities	209,386,226	247,990,836	457,377,062	366,460,881
Noncurrent Liabilities				
Revenue bonds and loans	2,592,206,224	2,899,287,729	5,491,493,953	5,149,961,142
Raw water rights obligation	89,552,155	-	89,552,155	92,515,774
BC Note obligation	16,124,188	36,268,418	52,392,606	53,088,452
Regional system leases	394,167,195	481,759,905	875,927,100	889,101,471
Other liabilities	3,713,668	29,864,963	33,578,631	21,122,269
Net pension liability	22,645,805	40,528,802	63,174,607	65,221,327
Total Noncurrent Liabilities	3,118,409,235	3,487,709,817	6,606,119,052	6,271,010,435
Total Liabilities	3,327,795,461	3,735,700,653	7,063,496,114	6,637,471,316
<b>Deferred Inflows of Resources</b>				
Deferred gain on refunding	44,182,654	37,087,199	81,269,853	88,783,069
Deferred amounts for swap terminations	56,712	377	57,089	61,895
Deferred pension amounts	-	-	-	31,311,922
Total Deferred Inflows of Resources	44,239,366	37,087,576	81,326,942	120,156,886
<b>Net Position (Deficit)</b>				
Net investment in capital assets	(198,390,747)	(138,162,246)	(336,552,993)	(194,715,306)
Restricted for construction	-	2,180,985	2,180,985	-
Restricted for debt service	56,139,482	91,296,778	147,436,260	123,414,653
Restricted for payment assistance program	2,289,905	2,362,658	4,652,563	12,318,423
Unrestricted	16,101,706	(65,400,362)	(49,298,656)	(160,316,797)
<b>TOTAL NET POSITION (DEFICIT)</b>	<b>\$ (123,859,654)</b>	<b>\$ (107,722,187)</b>	<b>\$ (231,581,841)</b>	<b>\$ (219,299,027)</b>

The accompanying notes are an integral part of these financial statements.



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## STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET POSITION

For the Year Ended June 30, 2023

With Comparative Amounts at June 30, 2022

	Enterprise Funds		Total	2022 Total
	Water	Sewage	Business-type	Business-type
	Fund	Disposal Fund	Activities	Activities
<b>Operating Revenues</b>				
Wholesale customer charges	\$ 340,593,806	\$ 275,917,502	\$ 616,511,308	\$ 591,839,582
Local system charges	22,834,300	191,042,200	213,876,500	210,359,500
Industrial waste charges	-	8,393,103	8,393,103	8,300,278
Pollutant surcharges	-	4,894,567	4,894,567	5,181,816
Other revenues	350,991	1,660,020	2,011,011	663,953
Total Operating Revenues	<u>363,779,097</u>	<u>481,907,392</u>	<u>845,686,489</u>	<u>816,345,129</u>
<b>Operating Expenses</b>				
Operating expenses before depreciation and amortization				
Personnel	48,855,342	65,952,676	114,808,018	107,053,390
Contractual services	52,817,187	64,129,786	116,946,973	114,094,006
Utilities	33,436,545	43,839,991	77,276,536	59,655,751
Chemicals	12,689,666	17,852,397	30,542,063	20,382,163
Supplies and other expenses	11,926,150	22,645,561	34,571,711	29,069,352
Capital program allocation	(1,172,302)	(1,017,340)	(2,189,642)	(2,632,136)
Intergovernmental reimbursements	(3,385,540)	(1,746,945)	(5,132,485)	(2,887,881)
Total operating expenses before depreciation and amortization	155,167,048	211,656,126	366,823,174	324,734,645
Depreciation	126,485,762	163,470,838	289,956,600	281,209,656
Amortization of intangible assets	3,566,664	439,704	4,006,368	4,006,368
Total Operating Expenses	<u>285,219,474</u>	<u>375,566,668</u>	<u>660,786,142</u>	<u>609,950,669</u>
<b>Operating Income</b>	<u>78,559,623</u>	<u>106,340,724</u>	<u>184,900,347</u>	<u>206,394,460</u>
<b>Nonoperating Revenues (Expenses)</b>				
Earnings (loss) on investments	16,724,485	20,877,345	37,601,830	(5,384,278)
Interest on shortfall and obligations receivable	24,662,083	16,397,278	41,059,361	42,264,765
Interest expense	(131,161,860)	(140,129,194)	(271,291,054)	(256,196,504)
Amortization of debt related items and cost of issuance	14,577,852	(10,579,542)	3,998,310	13,318,015
Legacy pension recovery (expense)	7,443,572	13,321,630	20,765,202	(13,915,303)
Water Residential Assistance Program	(5,023,436)	(7,319,076)	(12,342,512)	(2,792,837)
Other	526,389	1,225,939	1,752,328	153,741
Discontinued capital projects	(20,902,626)	-	(20,902,626)	-
Total Nonoperating Expenses	<u>(93,153,541)</u>	<u>(106,205,620)</u>	<u>(199,359,161)</u>	<u>(222,552,401)</u>
Income (loss) before capital contributions	(14,593,918)	135,104	(14,458,814)	(16,157,941)
<b>Capital Contributions</b>	<u>-</u>	<u>2,176,000</u>	<u>2,176,000</u>	<u>6,991,039</u>
<b>Change in Net Position</b>	<u>(14,593,918)</u>	<u>2,311,104</u>	<u>(12,282,814)</u>	<u>(9,166,902)</u>
NET POSITION (DEFICIT), Beginning of Year	<u>(109,265,736)</u>	<u>(110,033,291)</u>	<u>(219,299,027)</u>	<u>(210,132,125)</u>
<b>NET POSITION (DEFICIT), END OF YEAR</b>	<u>\$ (123,859,654)</u>	<u>\$ (107,722,187)</u>	<u>\$ (231,581,841)</u>	<u>\$ (219,299,027)</u>

The accompanying notes are an integral part of these financial statements.

## GREAT LAKES WATER AUTHORITY

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STATEMENT OF CASH FLOWS  
For the Year Ended June 30, 2023  
With Comparative Amounts at June 30, 2022

	Enterprise Funds		Total	2022 Total
	Water Fund	Sewage Disposal Fund	Business-type Activities	Business-type Activities
<b>Cash Flows From Operating Activities</b>				
Cash received from customers	\$ 355,242,971	\$ 489,095,449	\$ 844,338,420	\$ 805,137,009
Cash received from intergovernmental reimbursements	10,611,322	1,593,091	12,204,413	3,283,179
Cash payments for intergovernmental services provided	(3,385,540)	(1,746,945)	(5,132,485)	(2,887,882)
Cash payments to suppliers for goods and services	(115,165,508)	(148,900,878)	(264,066,386)	(219,936,004)
Cash payments for employee services	(45,728,366)	(65,650,055)	(111,378,421)	(109,013,137)
Cash payments to other governments for obligation payable	(875,507)	(1,969,296)	(2,844,803)	(2,844,803)
Cash payments for WRAP	(2,999,887)	(4,295,104)	(7,294,991)	(2,792,838)
Cash payments for GLWA share pension agreement	(11,440,800)	(20,475,400)	(31,916,200)	(31,916,200)
Cash received from insurance claims	-	2,140,310	2,140,310	665,506
Cash received from grants	25,198	-	25,198	-
Cash received (paid) nonoperating income (expense)	(5,718)	326,029	320,311	435,472
Cash received from EFSD for DWSD local system	-	31,724,639	31,724,639	-
Cash received for DWSD nonoperating pension	4,427,400	3,066,700	7,494,100	7,494,100
Cash paid for DWSD nonoperating pension	(4,427,393)	(3,066,806)	(7,494,199)	(7,494,199)
Cash received for DWSD WRAP	841,300	1,279,600	2,120,900	2,181,500
Cash payments for DWSD WRAP	(621,375)	(1,096,487)	(1,717,862)	(2,181,500)
Cash increase from DWSD budgetary surplus (1)	6,097,784	15,802,842	21,900,626	13,494,999
Principal payments received on obligation receivable	17,358,850	14,995,300	32,354,150	30,064,956
Interest received on obligation receivable	25,345,025	16,804,261	42,149,286	43,569,623
Advanced payments received on obligation receivable	5,623	88,139	93,762	530,431
Payments received from DWSD for previous year budget shortfall	-	-	-	8,296,578
Interest payments received on previous year budget shortfall	-	-	-	144,918
Cash received from DWSD for cost of issuance fees	29,500	-	29,500	99,000
Cash payments for issuance costs on DWSD obligation receivable	-	-	-	(128,500)
Payments of state revolving fund loan proceeds to DWSD	(23,886,889)	(853,459)	(24,740,348)	(13,139,489)
<b>Net Cash Provided by Operating Activities</b>	<b>211,447,990</b>	<b>328,861,930</b>	<b>540,309,920</b>	<b>523,062,719</b>
<b>Cash Flows From Noncapital Financing Activities</b>				
Proceeds from state revolving fund loans for DWSD	17,694,392	853,459	18,547,851	19,331,986
Cash received from grants	511,714	332,333	844,047	296,306
Principal payments	(17,358,850)	(14,995,300)	(32,354,150)	(30,064,956)
Interest payments	(23,188,902)	(16,833,365)	(40,022,266)	(43,217,819)
<b>Net Cash Used in Noncapital Financing Activities</b>	<b>(22,341,646)</b>	<b>(30,642,873)</b>	<b>(52,984,518)</b>	<b>(53,654,483)</b>

The accompanying notes are an integral part of these financial statements.

Continued on  
Next Page

	Enterprise Funds		Total	2022 Total
	Water	Sewage	Business-type	Business-type
	Fund	Disposal Fund	Activities	Activities
<b>Cash Flows From Capital and Related Financing Activities</b>				
Proceeds from insurance claims	\$ -	\$ 713,750	\$ 713,750	\$ 345,645
Proceeds from grants	-	226,996	226,996	-
Proceeds from sale of assets	195,874	1,208,505	1,404,379	254,985
Cash received from capital contribution	-	2,176,000	2,176,000	-
Proceeds from revenue bonds	228,878,775	218,550,892	447,429,667	-
Proceeds from state revolving fund loans	87,088,198	17,712,417	104,800,615	34,857,297
Payments to bond escrow agent	-	(5,507,101)	(5,507,101)	-
Payment of bond issuance costs	(878,769)	(1,008,501)	(1,887,270)	(241,725)
Principal payments on bonds	(44,582,900)	(104,021,130)	(148,604,030)	(164,753,100)
Principal payments on regional system leases	(5,686,745)	(6,950,466)	(12,637,211)	(12,121,951)
Principal payments on right to use lease	-	(366,784)	(366,784)	(189,119)
Interest payments	(98,303,474)	(115,763,766)	(214,067,241)	(207,677,754)
Purchase of capital assets	(197,407,129)	(97,706,397)	(295,113,526)	(234,548,770)
Net Cash Used in Capital and Related Financing Activities	(30,696,170)	(90,735,585)	(121,431,756)	(584,074,492)
<b>Cash Flows From Investing Activities</b>				
Investment purchases	(388,757,476)	(484,579,004)	(873,336,480)	(521,273,043)
Investment sales and maturities	474,538,066	503,680,284	978,218,350	575,876,316
Interest received	9,663,877	11,466,817	21,130,694	4,099,724
Net Cash Provided in Investing Activities	95,444,467	30,568,097	126,012,564	58,702,997
<b>Net change in cash and cash equivalents</b>	253,854,641	238,051,569	491,906,210	(55,963,259)
CASH AND CASH EQUIVALENTS, Beginning of Year	210,405,343	250,628,272	461,033,615	516,996,874
<b>CASH AND CASH EQUIVALENTS, END OF YEAR</b>	<u>\$ 464,259,984</u>	<u>\$ 488,679,841</u>	<u>\$ 952,939,825</u>	<u>\$ 461,033,615</u>
<b>STATEMENT OF NET POSITION CLASSIFICATION OF CASH</b>				
Cash and cash equivalents	\$ 222,625,550	\$ 260,110,098	\$ 482,735,648	\$ 347,655,417
Restricted cash and cash equivalents	127,679,570	137,098,372	264,777,942	87,643,974
Restricted cash for the benefit of DWSD	17,474,699	24,989,273	42,463,972	20,469,633
Noncurrent restricted cash and cash equivalents	96,480,165	66,482,098	162,962,263	5,264,591
<b>CASH AND CASH EQUIVALENTS, END OF YEAR</b>	<u>\$ 464,259,984</u>	<u>\$ 488,679,841</u>	<u>\$ 952,939,825</u>	<u>\$ 461,033,615</u>
<b>NONCASH OPERATING ACTIVITIES</b>				
Credits given on billings-Flint KWA obligation	\$ (6,452,573)	\$ -	\$ (6,452,573)	\$ (6,496,428)
Interest income obligation receivable premium amortization	\$ (767,171)	\$ (408,374)	\$ (1,175,545)	\$ (1,130,944)

The accompanying notes are an integral part of these financial statements.

STATEMENT OF CASH FLOWS  
For the Year Ended June 30, 2023  
With Comparative Amounts at June 30, 2022

Continued From  
Previous Page

	Enterprise Funds		Total	2022 Total
	Water	Sewage	Business-type	Business-type
	Fund	Disposal Fund	Activities	Activities
<b>NONCASH INVESTING, CAPITAL AND FINANCING ACTIVITIES</b>				
Bond proceeds deposited into an escrow account for refunding revenue bonds	\$ -	\$ 12,665,243	\$ 12,665,243	\$ -
Bond proceeds paid directly to underwriters for cost of issuance	\$ 635,485	\$ 644,295	\$ 1,279,780	\$ -
Increase in assets from contributed capital	\$ -	\$ -	\$ -	\$ 6,991,039
Decrease in raw water rights obligation	\$ 2,845,282	\$ -	\$ 2,845,282	\$ 2,734,246
Interest paid for raw water rights obligation	\$ 3,607,291	\$ -	\$ 3,607,291	\$ 3,762,182
Increase in unrealized loss on investments	\$ 5,809,575	\$ 6,108,228	\$ 11,917,803	\$ 3,391,742
Interest expense due to accretion	\$ -	\$ -	\$ -	\$ 170,931
Amortization income (expense)	\$ 16,091,106	\$ (8,785,146)	\$ 7,305,960	\$ 13,560,740
<b>Reconciliation of Operating Income to Net Cash Provided by Operating Activities:</b>				
Operating income	\$ 78,559,623	\$ 106,340,724	\$ 184,900,347	\$ 206,394,460
Adjustments to reconcile operating income to net cash provided by operating activities:				
Depreciation	126,485,762	163,470,838	289,956,600	281,209,656
Amortization of intangible assets	3,566,664	439,704	4,006,368	4,006,368
Credits for raw water rights	(6,452,573)	-	(6,452,573)	(6,496,427)
Miscellaneous nonoperating income (expense)	(5,718)	44,531	38,813	716,970
Legacy pension recovery (expense) and administrative fee	7,219,715	12,920,996	20,140,711	(14,368,396)
WRAP (Water Residential Assistance Program)	(5,023,436)	(7,319,076)	(12,342,512)	(2,792,837)
Loan forgiveness pass-through to DWSD	(1,758,494)	(358,544)	(2,117,038)	(3,326,000)
Interest income on contractual obligation receivable	24,662,083	16,397,278	41,059,361	42,119,847
Interest income on shortfall receivable	-	-	-	144,918
Interest expense on obligation payable	(671,554)	(1,510,539)	(2,182,093)	(2,213,651)
Changes in:				
Receivables	(2,049,819)	9,172,943	7,123,124	(5,430,665)
Due from other governments	5,982,342	(1,023,013)	4,959,329	(297,845)
Due from other funds	1,295,332	(2,214,714)	(919,382)	620,626
Contractual obligation receivable	2,190,123	14,908,759	17,098,882	15,189,914
Shortfall receivable	-	-	-	8,296,578
Prepaid items and other assets (operating)	(2,154,269)	(692,777)	(2,847,046)	(2,464,760)
Inventories	-	(2,282,725)	(2,282,725)	(571,619)
Accounts payable (operating)	(174,339)	1,355,833	1,181,494	7,698,604
Accrued salaries, wages and benefits	711,084	(707,755)	3,329	(3,968,568)
Accrued liabilities	9,849,789	19,096,870	28,946,659	13,430,822
Due to other governments	(14,486,543)	-	(14,486,543)	1,916,608
Due to other funds	2,214,714	(1,295,332)	919,382	(620,626)
Obligation payable including accrued interest	(203,953)	(458,757)	(662,710)	(631,153)
Other liabilities	(54,171)	35,246,216	35,192,045	743,292
Net pension liability and deferred items	(18,254,372)	(32,669,530)	(50,923,902)	(16,243,397)
<b>NET CASH PROVIDED BY OPERATING ACTIVITIES</b>	<b>\$ 211,447,990</b>	<b>\$ 328,861,930</b>	<b>\$ 540,309,920</b>	<b>\$ 523,062,719</b>

(1) Represents local system retail receipts received in excess of DWSD's current year budget requirements. Amounts will be used to meet future budget requirements.

The accompanying notes are an integral part of these financial statements.

**NOTES TO FINANCIAL STATEMENTS**

**GREAT LAKES WATER AUTHORITY**  
**INDEX TO NOTES TO FINANCIAL STATEMENTS**  
As of and for the Year Ended June 30, 2023

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NOTE 1	Summary of Significant Accounting Policies	43
NOTE 2	Budgetary Information	51
NOTE 3	Cash Deposits and Investments	52
NOTE 4	Restricted Assets	55
NOTE 5	Receivables, Net	59
NOTE 6	Due from other Governments	59
NOTE 7	Due To and Due From Other Funds	59
NOTE 8	Contractual Obligation Receivable	60
NOTE 9	Capital Assets	62
NOTE 10	Accrued Liabilities	65
NOTE 11	Due to Other Governments	65
NOTE 12	Long-term Debt	66
	Revenue Bonds	68
	State Revolving Fund Loans	70
	Pledges of Future Revenue	73
	Debt Ratings	74
	Raw Water Rights Obligation	74
	BC Note Obligation	75
	Interest Expense	77
NOTE 13	Regional Systems Leases Payable and Related Prepaid Lease	77
NOTE 14	Other Liabilities	79
	Lease Payable – Right to Use Asset	80
	Compensated Absences	81
	Workers' Compensation	81
	Claims and Judgements	81
	DWSD Local System Capital Contribution from EFSD	81
	Cash Held for the Benefit of DWSD Budget Stabilization	81
NOTE 15	Risk Management/Self-Insurance Programs	82
NOTE 16	Defined Contribution Pension Plans	84
NOTE 17	Net Pension Liability (Special Funding Situation)	85
NOTE 18	Commitments and Contingencies	90
NOTE 19	Net Investment in Capital Assets	93
NOTE 20	Subsequent Events	93

NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

**NOTE 1 – SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES**

***ACCOUNTING AND REPORTING PRINCIPLES***

The financial statements of the Authority have been prepared in conformity with generally accepted accounting principles (GAAP) as applied to government units. The Governmental Accounting Standards Board (GASB) is the accepted standard setting body for establishing governmental accounting and financial reporting principles. The more significant of the Authority's accounting policies are described below.

***REPORTING ENTITY***

The Great Lakes Water Authority (GLWA or the Authority) is the regional wholesale provider of water and sewage disposal services in southeast Michigan. The Authority was incorporated by the counties of Macomb, Oakland, Wayne and the City of Detroit (the City) on November 26, 2014 pursuant to Act 233, Public Acts of Michigan, 1955, as amended (Act 233). Pursuant to Regional System Leases that became effective on January 1, 2016, the Authority assumed possession and control of the regional assets of both the water supply and sewage disposal systems owned by the City, which were previously operated by the Detroit Water and Sewerage Department (DWSD). The City, acting through DWSD, will continue to manage and operate its own local retail water and sewage disposal system infrastructure. The Regional System Leases assigned all revenues of both systems to the Authority for an initial term of 40 years and, pursuant to bondholder consent, replaced the City with GLWA as the obligor on all outstanding debt obligations of the City related to the systems.

The term "Regional System Leases" is used throughout the financial statements to represent the agreements that transferred the regional water system and sewage disposal system assets and operations from the City of Detroit to GLWA. The Regional System Leases are not considered a lease as defined by the Government Auditing Standards Board (GASB) in GASB Statement No. 87, *Leases*.

The Authority's water system is one of the largest in the United States, both in terms of water produced and population served. The water system currently serves an area of 1,698 square miles located in eight Michigan counties and an estimated population of approximately 3.8 million or approximately 38% of Michigan's population. Suburban wholesale customers comprise approximately 82% of the population in the service area, and the DWSD retail water customers comprise the remainder.

The Authority's sewage disposal system is one of the largest in the United States, both in terms of treatment capacity and population served. The sewer disposal system currently serves an area of 944 square miles located in three Michigan counties and an estimated population of approximately 2.8 million or approximately 28% of Michigan's population. Suburban customers comprise approximately 76% of the population in the service area, and the DWSD retail sewer customers comprise the remainder.

The Authority's Board is authorized to establish rates, fees and charges for its water supply and sewage disposal services. Under the Water and Sewer Services Agreement, the City is appointed as agent of the Authority for setting retail rates and for billing, collecting and enforcing the collection of charges from retail water and sewer customers. As an agent of the Authority, the City, through the Board of Water Commissioners and without further approval by the City Council, is required to set retail rates to meet the revenue requirements that the Authority establishes for the retail system for regional commitments as well as other reasonable costs of the local DWSD systems. Under certain conditions, the Authority may terminate the City's appointment.



NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

**NOTE 1 – SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (cont.)**

**GOVERNANCE**

The GLWA Board is composed of six voting members. Two members are residents of the City of Detroit and are appointed by the Mayor of the City of Detroit. The chief executive of the counties of Macomb, Oakland and Wayne each appoint one member who is a resident of the county from which appointed and the Governor of the State of Michigan appoints one member who is a resident of an area served by the Authority outside of the counties. All members of the GLWA Board must have at least seven years of experience in a regulated industry, a utility, engineering, finance, accounting or law firm. After the initial term specified in its Articles of Incorporation, each GLWA Board member is appointed for a four-year term and serves at the pleasure of the appointing government.

The GLWA Board has adopted a committee structure. Four committees have been established: Audit, Capital Improvement Planning, Operations and Resources, and Legal.

**BASIS OF PRESENTATION**

The Authority presents a water enterprise fund and a sewage disposal enterprise fund for its basic financial statements which consists of a statement of net position, statement of revenues, expenses and changes in net position, a statement of cash flows and these notes to the financial statements.

**BASIS OF ACCOUNTING**

The accounting policies of the Authority conform to GAAP as applicable to governmental entities. The accounts of the Authority are used to account for its activities, which are financed and operated in a manner similar to a private business enterprise. Accordingly, the Authority maintains its records on the accrual basis of accounting. Revenues from operations, investments and other sources are recorded when earned. Expenses (including depreciation) of providing services are accrued when incurred.

Nonexchange transactions, in which the Authority receives value without directly giving equal value in return, include contributions and grants. On an accrual basis, revenue from contributions and grants is recognized in the fiscal year in which all eligibility requirements have been satisfied, including timing and expense requirements. Timing requirements specify the year when the resources are required to be used or the fiscal year when use is first permitted. Expense requirements specify the year in which the resources are provided to the Authority on a reimbursement basis.

**ASSETS, DEFERRED OUTFLOWS OF RESOURCES, LIABILITIES, DEFERRED INFLOWS OF RESOURCES, AND NET POSITION**

**Cash and Cash Equivalents and Investments**

The Authority's cash and cash equivalents are considered to be cash on hand, demand deposits and short-term investments with original maturities of three months or less from the date of acquisition. Investments are reported at fair value or estimated value. The Authority maintains and adheres to a formal investment policy in accordance with Michigan Public Act 20 of 1943, Investment of Surplus Funds of Political Subdivisions. Michigan State law allows the Authority to deposit in the accounts of federally insured banks, credit unions and savings and loan associations and to invest in obligations of the U.S. Treasury, certain commercial paper, repurchase agreements, bankers' acceptances and mutual funds composed of otherwise legal investments. These investments are subject to interest rate risk and credit risk which may affect the value at which these investments are recorded.

**Restricted Assets**

Restricted assets are those assets set aside as required by the Authority's Master Bond Ordinance (MBO), funds held on behalf of another entity, or where legally restricted for a particular purpose such as bond proceeds for the capital program. See Note 4 for further details.

NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

**NOTE 1 – SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (cont.)**

*Accounts Receivable, Net*

The Authority records unbilled revenues for services provided prior to year-end by accruing actual revenues billed in the subsequent month. The Authority recognizes an estimate of uncollectible accounts for its customer accounts receivable related to its water and sewage disposal services.

*Due from and Due to Other Governments*

The due from other governments includes amounts owed to the Authority by DWSD for shared services and intergovernmental agreements, accrued interest receivable on the contractual obligation receivable and grants. The due to other governments includes amounts owed by the Authority to DWSD for shared services and the green infrastructure program.

*Due from and Due to Other Funds*

An amount owed between the Water and Sewage Disposal Funds based on shared centralized and administrative services administered by the Water Fund and allocated to the Sewage Disposal Fund. Any water system usage of inventory in the Sewage Disposal Fund is charged through an interfund payable to the Sewage Disposal Fund.

*Contractual Obligation Receivable*

Pursuant to the Water and Sewer Services Agreement, the City through DWSD is responsible for paying the portion of debt service on the bonds assumed by the Authority that were issued to finance the cost of improvements to the Detroit local facilities. The resulting contractual obligation is a receivable recorded by the Authority and is repaid by DWSD based upon an agreed upon schedule. Any new debt issued on behalf of the City for DWSD is also included in the contractual obligation receivable.

*Prepaid Items and Other Assets*

Certain payments to vendors reflect costs applicable to future accounting periods and are recorded as prepaid items in the financial statements. Other assets include accrued interest receivable on investments.

*Inventories*

Inventories consist of operating, maintenance and repair parts for sewage disposal system assets and are valued at the lower of cost or market, with cost being determined on an average cost method. Inventory is recorded as expense when consumed rather than when purchased. The water fund does not report inventory because the amounts are insignificant and for efficiency are recorded in the sewage disposal fund. Any inventory usage by the water fund is charged through an interfund payable to the sewage disposal fund.

*Prepaid Lease*

As described in Note 14, the Authority has recorded a prepaid lease for cash paid to DWSD on the date GLWA began operations equivalent to six months of lease payments. As noted in the 2018 MOU dated June 2018, this amount will be applied at the end of the 40-year term and, hence, it is classified as a noncurrent asset.

NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

**NOTE 1 – SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (cont.)**

*Capital Assets*

Capital assets are recorded at historical cost. All acquisitions of land and land improvements are capitalized regardless of cost. The capitalization threshold is \$5,000 for capital assets with an estimated useful life greater than one year, except for information technology assets and the right to use leased assets. The capitalization threshold for information technology assets is \$1,000,000 with an estimated useful life greater than three years. Subscription-Based Information Technology Arrangement (SBITA) contracts greater than \$1,000,000 are analyzed for the both the quantitative and qualitative aspects of materiality to determine if they will be recorded as an intangible asset under GASB 96. Right to use leased assets have a capitalization threshold of \$1,000,000 for leases greater than one year. The costs of normal maintenance and repairs that do not add to the value of the asset or materially extend assets' lives are not capitalized. Major outlays for capital assets and improvements are capitalized as projects are constructed.

Capital assets acquired after January 1, 2016 are depreciated on the straight-line basis over the useful life of the assets as follows:

	Useful Lives (In Years)
Site improvements	15
Buildings and structures	20-50
Infrastructure	80
Machinery and equipment	3-20
Vehicles	5-7
Leasehold improvements	15

Capital assets acquired as of the operational effective date of the Authority at January 1, 2016 are depreciated over their estimated remaining useful lives at that time as determined by a third-party valuation. These remaining lives differ from the years cited above for newly acquired capital assets and, in most instances, are significantly shorter.

The Authority has recorded an intangible asset for raw water rights which are being amortized on a straight-line basis over 30 years in the water fund. See Note 9 for a description of these rights. The Authority has recorded a right to use intangible asset for the lease of a warehouse in the sewage disposal fund. See Note 14 for a description of the leased right to use asset.

*Prepaid Insurance on Debt*

Prepaid insurance on debt represents insurance costs incurred in connection with the issuance of long-term debt. Such costs are being amortized over the term of the respective debt using the straight-line method.

*Deferred Outflows of Resources*

In addition to assets, the statement of net position reports a separate section for deferred outflows of resources. This separate financial statement element represents a consumption of net assets that applies to future periods. At that time, the activity will be recognized as an outflow of resources (or expense). The Authority reports deferred outflows of resources for two items: deferred charges on refunding and pension amounts. Deferred charges on refunding results from the difference in the carrying value of refunded debt and its reacquisition price; these amounts are deferred and amortized over the shorter of the life of the refunded or refunding debt. Deferred outflows of resources from pension amounts relate to differences between expected and actual investment returns and contributions to the plan subsequent to the plan measurement date. More detailed information on pension amounts can be found in Note 17.

NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

**NOTE 1 – SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (cont.)**

Accrued Liabilities

Accrued liabilities represent amounts held for specific purposes or other parties as described below:

- Under the terms of the MBO, the Authority retains cash on hand for the benefit of DWSD to be used for current revenue requirements.
- Pursuant to the water service contract with a customer, the Authority holds a security deposit for \$3,750,000 plus interest earned net of bank fees.
- Amounts owed to the WRAP service delivery partners for WRAP expenses incurred.
- Advanced billings on rentals
- Insurance proceeds received that have not been spent

Revenue Bonds and Loans

The Authority issues revenue bonds to finance capital improvement projects, refund outstanding bonds to reduce future debt service payment and pay the cost of issuance. Loans are direct borrowings through the State of Michigan revolving fund loan program. Bond premiums and discounts are deferred and amortized over the life of the bonds using the effective interest method. Bonds payable are reported net of the applicable bond premium or discount. See Note 12 for the details on revenue bonds and loans.

Raw Water Rights Obligation

The Authority has recorded a liability for the purchase obligation on raw water rights. See Note 12 for the details of this obligation.

BC Note Obligation

Under the terms of the lease agreements with the City, the Authority is required to pay a portion of the City's B and C notes allocated to the regional water and sewage disposal systems. See "BC Note Obligation" in Note 12.

Regional System Leases

The effective date of the Regional System leases by the City to the Authority for the leased water and sewage disposal facilities was January 1, 2016. See Note 13 for the details of the regional system leases.

Other Liabilities

Other liabilities include the following liabilities which are discussed in Note 14:

- Lease payable – right to use asset
- Compensated absences
- Workers' compensation
- Claims and judgements
- DWSD local system capital contribution from the Evergreen-Farmington Sanitary Drain Drainage District (EFSD)
- Cash held for the benefit of DWSD budget stabilization

Net Pension Liability

Under the terms of the Regional System leases, the Authority is a nonemployer contributing entity in the City of Detroit General Employee's Retirement system (GRS) Component II plan in a special funding situation. For the purposes of measuring the net pension liability, deferred outflows, and pension expense, information about the fiduciary net position of the Component II plan of the GRS and additions to and deductions from the plan's net position have been determined on the same basis as they are reported by GRS. The GRS combined plan uses the economic resources measurement focus and the full accrual basis of accounting. Revenue is recorded when earned and expenses are recorded when a liability is incurred. Plan member contributions are recognized in the period in which the contributions are due. Benefits are recognized when due and payable in accordance with the terms of the plan. Investments are reported at fair value or estimated fair value. Refer to Note 17 for additional information on the net pension liability.

NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

**NOTE 1 – SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (cont.)**

*Deferred Inflows of Resources*

In addition to liabilities, the statement of net position includes a separate section for deferred inflows of resources. This separate financial statement element represents an acquisition of net assets that applies to future periods. At that time, the activity will be recognized as an inflow of resources (or revenues). The Authority has included the deferred gain on refunding, deferred amounts on swap terminations and deferred pension amounts in this reporting category. Deferred gain on refunding results from the difference in the carrying value of refunded debt and its reacquisition price; these amounts are deferred and amortized over the shorter of the life of the refunded or refunding debt. The deferred amounts on swap terminations were assumed as part of the regional system lease agreements with the City. The amounts will be fully amortized for both funds by fiscal 2035. Deferred inflows of resources from pension amounts relate to differences between expected and actual investment returns. More detailed information on pension amounts can be found in Note 17.

*Net Position (Deficit)*

Net position, which represents the difference between assets, deferred outflows of resources, liabilities and deferred inflows of resources, is reported in three components as follows:

*Net Investment in Capital Assets* - consists of capital assets, net of accumulated depreciation and reduced by the balance of outstanding related debt including the share of the regional system lease liability allocable to the net investment in capital assets acquisition value of the regional systems recorded under GASB 69.

*Restricted* – consists of amounts that are legally restricted by outside parties or by law through constitutional provisions or enabling legislation. The restricted net position consists of restricted assets reduced by liabilities related to those assets.

*Unrestricted* – is the residual balance of net position after net investment in capital assets and restricted.

When both restricted and unrestricted resources are available for use, generally it is the Authority's policy to use restricted resources first and then unrestricted resources when they are needed.

**STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET POSITION**

*Classification of Revenues and Expenses*

The Authority classifies its revenues and expenses as either operating or nonoperating.

Operating revenues are those revenues generated from providing services in connection with the Authority's principal ongoing operations. The principal operating revenues of the Authority are wholesale charges for providing water and wastewater treatment. The local system charges are the charges to the City of Detroit under the Water and Sewer Services Agreement (WSSA), dated June 12, 2015. Wholesale customer charges are shown net of loss contingency expense of \$2,308,673 for the Water Fund and loss recovery of \$285,717 for the Sewage Disposal Fund.

Operating expenses include the direct costs of operating the water and sewage disposal systems, centralized support, utilities, administrative expenses, depreciation on capital assets and amortization of intangible assets. The following items are shown as a reduction to operating expenses:

- The capital program allocation represents personnel costs that support the project delivery of the Capital Improvement Plan and have been capitalized.
- Intergovernmental reimbursements represent reimbursement of costs related to shared facilities and personnel which the Authority provides to DWSD through a shared services agreement or separate interlocal agreement. It also includes reimbursement of costs for contracted services that are billed to member partners under an intergovernmental agreement.

All revenue and expenses not meeting these definitions above are reported as nonoperating revenues and expenses.

NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

**NOTE 1 – SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (cont.)**

Taxes

The Authority pays no direct federal or state taxes except for Social Security and Medicare taxes. The Authority pays a local tax bill for maintenance charges on a county drain and an international local tax on leased property as part of the lease agreement.

Interest Income on Obligations Receivable

Interest income is the interest earned on the contractual obligation receivable.

Amortization of Debt Related Items and Cost of Issuance

Bond premiums, discounts, and gains or losses on refunding are deferred and amortized over the life of the bonds. Bond premiums, discounts and GASB 69 debt value adjustment are amortized using the effective interest method. The deferred amounts on refunding are amortized using the straight-line method. Debt cost of issuance is expensed when incurred.

Legacy Pension Expense

GLWA is legally responsible for making substantial contributions to a legacy pension plan of another entity, see Note 17 for additional information on this Plan.

Water Residential Assistance Program (WRAP)

The Water Residential Assistance Program is a unique program that started with the formation of GLWA. The program provides that an amount equal to half of one percent of GLWA Regional Systems revenue be set aside to provide assistance to qualified residents in participating communities across southeast Michigan. The amount expensed represents the amount expended for this purpose during the year. Amounts set aside and not spent are shown as restricted cash. Information on restricted assets is disclosed in Note 4.

Centralized Services and Administrative Services

Certain costs incurred by the Authority are allocated between the Water and Sewage Disposal Funds. The allocations are based on an annual cost allocation analysis. The following table shows the allocation of these common costs for the year ended June 30, 2023:

Common Costs	Water % Allocation	Water Allocation	Sewer % Allocation	Sewer Allocation	Total Common Costs
Centralized services	52.1%	\$ 51,965,447	47.9%	\$ 47,713,609	\$ 99,679,056
Administrative services	43.1%	\$ 15,238,261	56.9%	\$ 20,091,544	\$ 35,329,805

Centralized services includes the following operating areas: planning services, systems control, facility operations, fleet operations, field service operations, energy research and innovation, transformation, information technology and security and integrity.

Administrative services includes the following operating areas: board of directors, chief executive officer, chief administrative and compliance officer, general counsel, public affairs, organizational development, and financial services.

NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

**NOTE 1 – SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (cont.)**

**Capital Contribution**

A \$2,176,000 capital contribution was recognized during the year from the Evergreen-Farmington Sanitary Drain Drainage District (EFSD). This capital contribution was part of an agreement with the EFSD to increase the capacity in their contract for a local system capital contribution of \$31.6 million and a regional system capital contribution for \$2.2 million. The Authority has recorded a liability for the \$31.6 million local system capital contribution received that is for DWSD and will disburse the funds to DWSD as DWSD incurs the costs related to the specified local system construction project identified in the contract, which will reduce the local system flow into the regional system. The \$2.2 million for the regional system has been restricted for a future capital project.

***USE OF ESTIMATES***

The preparation of basic financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the basic financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

***ADOPTION OF NEW ACCOUNTING STANDARDS***

The following GASB pronouncements were implemented in the current fiscal year with no effect on the financial statements as a result of implementation:

- Statement No. 91, Conduit Debt Obligations (effective for fiscal years beginning after December 15, 2021)
- Statement 94, Public-Private and Public-Public Partnerships and Availability Payment Arrangements (effective for fiscal years beginning after June 15, 2022)
- Statement No. 100, Accounting Changes and Error Corrections-an amendment of GASB Statement No. 62 (effective for fiscal years beginning after June 15, 2023)

***NEW ACCOUNTING PRONOUNCEMENTS TO BE IMPLEMENTED IN THE FUTURE***

The following GASB pronouncement will be implemented in the future. The Authority has not completed its assessment of the future impact of the adoption of this statement, if any.

- Statement No. 101, *Compensated Absences* (effective for fiscal years beginning after December 15, 2023)

***RECLASSIFICATIONS***

Certain prior year amounts have been reclassified to conform to current year presentation.



NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

**NOTE 2 – BUDGETARY INFORMATION**

The financial activity of the Authority is presented in two enterprise funds. While enterprise funds are not required under State statutes to adopt appropriated budgets, the Authority's Articles of Incorporation outlines a budget adoption process. Budget to actual schedules for revenues and expenses are presented in the Supplementary Information section of this report. This schedule is not required by GAAP or subject to audit procedures. It is presented strictly for informational purposes.

***BUDGET PROCESS***

GLWA adopts a biennial budget for the regional water and sewage disposal systems as required by its Articles of Incorporation. The revenue requirements budget is adopted separately for the water and sewerage disposal systems. It is the sum of: a) operation and maintenance expenses; b) amounts necessary to pay the principal of and interest on all bonds and to fund any reserves required by the Master Bond Ordinances; c) the Regional Systems lease payments, which shall be a common-to-all charge; d) GLWA's portion of the GRS net pension liability and the BC Note obligations; e) the required deposit to the Water Residential Assistance Program (WRAP) Fund; f) the amounts needed to make the required deposits to the regional Extraordinary Repair and Replacement Reserve Fund as defined in the Master Bond Ordinance; g) deposits to the regional Improvement and Extension Funds; and h) the amount necessary to satisfy the coverage ratios required by the rate covenant in the Master Bond Ordinance.

As provided in the Regional System leases, through the fiscal year ending June 30, 2025, the water and sewerage disposal systems are limited to annual increases in the regional revenue requirement of not more than 4%. This limitation shall not be applicable if the regional revenue requirement must increase beyond the 4% assumption in order to satisfy the rate covenant or to pay the cost of improvements to the leased water and/or sewerage disposal facilities that are required to be made by applicable laws.

In the Regional System leases, the City acknowledges that all local water and sewer system revenues received from customers in the City are the property of GLWA and will be deposited as received in the Receiving Fund as defined in the Master Bond Ordinance and applied as provided in the Bond Ordinance. As a result, the City agrees to provide the Authority with a budget for the local water and sewerage disposal system as required in the Water and Sewer Services Agreement.

***SCHEDULE OF CHARGES PROCESS***

The GLWA Wholesale Customer Model Water Contract and GLWA Wholesale Customer Model Sewer Contract requires that GLWA provide wholesale customers with written notice of a proposed charge, meet to review the proposed charge, and the underlying data used to calculate the charge not less than 30 calendar days prior to a public hearing. Further, the contract requires that a public hearing be held no less than 120 days prior to the date that proposed charges take effect.

The Water and Sewer Services Agreement between GLWA and DWSD requires that GLWA provide the City with written notice of the proposed charge and the underlying data used to calculate the charge not less than 120 calendar days prior to the effective date of any new charge.



NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

### NOTE 3 – CASH DEPOSITS AND INVESTMENTS

Michigan Compiled Laws Section 129.91 (Public Act 20 of 1943, as amended) authorizes the Authority to make deposits and invest in the accounts of federally insured banks, credit unions, and savings and loan associations that have offices in Michigan. The law also allows investments outside the state of Michigan when fully insured. The Authority is allowed to invest in bonds, securities, and other direct obligations of the United States or any agency or instrumentality of the United States; repurchase agreements; bankers' acceptances of United States banks; commercial paper rated within the two highest classifications that matures not more than 270 days after the date of purchase; obligations of the State of Michigan or its political subdivisions that are rated as investment grade; and mutual funds composed of investment vehicles that are legal for direct investment by local units of government in Michigan.

The deposits and investments of the Authority at June 30, 2023 are reported in the basic financial statements as follows:

	Water Fund	Sewage Disposal Fund	Total Business- type Activities
<b>Statement of Net Position</b>			
Cash and cash equivalents	\$ 222,625,550	\$ 260,110,098	\$ 482,735,648
Restricted cash and cash equivalents	127,679,570	137,098,372	264,777,942
Restricted cash for the benefit of DWSD	17,474,699	24,989,273	42,463,972
Investments	21,081,772	42,159,523	63,241,295
Restricted investments	9,975,144	33,698,337	43,673,481
Noncurrent restricted cash and cash equivalents	96,480,165	66,482,098	162,962,263
Noncurrent restricted investments	22,002,166	112,322,569	134,324,735
<b>Total</b>	<b>\$ 517,319,066</b>	<b>\$ 676,860,270</b>	<b>\$ 1,194,179,336</b>
<b>Cash Deposits and Investments</b>			
Bank deposits – checking and savings accounts	\$ 63,007,459	\$ 45,367,531	\$ 108,374,990
Money market accounts	401,252,525	443,312,310	844,564,835
Investments in securities	53,059,082	188,180,429	241,239,511
<b>Total</b>	<b>\$ 517,319,066</b>	<b>\$ 676,860,270</b>	<b>\$ 1,194,179,336</b>

#### CUSTODIAL RISK OF BANK DEPOSITS

Deposits and money market accounts are exposed to custodial credit risk if they are not covered by depository insurance. At year-end, the carrying amount of the Authority's deposits and money market accounts was \$464,259,984 for the water fund and \$488,679,841 for the sewage disposal fund. The bank balance of the water fund deposits and money market accounts was \$466,465,276 of which \$448,273,029 was uninsured and uncollateralized. The bank balance of the sewage disposal fund deposits and money market accounts was \$488,679,841 of which \$488,429,841 was uninsured and uncollateralized.

In accordance with the Authority's investment policy and State law, all deposits are held in the Authority's name, and evidenced by a safekeeping receipt. Also, due to the dollar amounts of cash deposits and the limits of FDIC insurance, the Authority believes it is impractical to insure all bank deposits. As a result, the Authority evaluates each financial institution and assesses the level of risk of each institution; only those institutions with an acceptable estimated risk level are used as depositories.

NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

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**NOTE 3 – CASH DEPOSITS AND INVESTMENTS (cont.)**

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***INVESTMENTS***

Following is a summary of the Authority's investments as of June 30, 2023:

	Water Fund	Standard & Poors Rating	Weighted Maturity In Years
U.S. treasury notes	\$ 24,225,975	AA+	1.22
U.S. government agencies	1,648,515	AA+	0.03
Commercial paper	<u>27,184,592</u>	A1	0.11
Total	<u>\$ 53,059,082</u>		
	Sewage Disposal Fund	Standard & Poors Rating	Weighted Maturity In Years
U.S. treasury notes	\$ 120,578,055	AA+	0.73
U.S. government agencies	1,248,875	AA+	0.03
Commercial paper	<u>66,353,499</u>	A1	0.14
Total	<u>\$ 188,180,429</u>		
	Total	Standard & Poors Rating	Weighted Maturity In Years
U.S. treasury notes	\$ 144,804,030	AA+	0.81
U.S. government agencies	2,897,390	AA+	0.03
Commercial paper	<u>93,538,091</u>	A1	0.13
Total	<u>\$ 241,239,511</u>		

***CUSTODIAL RISK OF INVESTMENTS***

Investments are exposed to custodial credit risk if the securities are uninsured, unregistered or held by a counterparty or its agent but not in the government's name. In accordance with the Authority's investment policy, all investments are held in the name of the Authority and are evidenced by a safekeeping receipt confirmation, and thus not exposed to custodial credit risk.

NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

**NOTE 3 – CASH DEPOSITS AND INVESTMENTS (cont.)**

**CREDIT RISK**

Credit risk is the risk that an issuer or other counterparty to an investment will not fulfill its obligations. The Authority's investment policy and State law require that commercial paper be rated in the top two ratings by at least two nationally recognized statistical rating organizations.

As of June 30, 2023, all of the Authority's investments in securities of U.S. agencies were rated AA+ by Standard & Poor's and Aaa by Moody's. The Authority's investment in commercial paper was rated A1 by Standard and Poor's and P1 by Moody's. U.S. Treasury notes are explicitly guaranteed by the U.S. government and not considered to have credit risk. The Authority's money market accounts were not rated.

**CONCENTRATION OF CREDIT RISK**

Concentration of credit risk is the risk of loss attributed to the magnitude of a government's investment in a single issuer. In order to manage its exposure risk, the Authority's investment policy requires diversification by security type to no more than 50% of the total investment portfolio.

At June 30, 2023, the Authority had greater than 5% of its total investment portfolio concentrated as follows:

Investment Type	Issuer	% of Portfolio
<b>Water Fund</b>		
Commercial paper	Natixis Bank NY	19.90%
Commercial paper	Bank of America Securities	14.81
Commercial paper	Mitsubishi UFJ Financial Group Bank LTD NY	12.38
<b>Sewage Disposal Fund</b>		
Commercial paper	Natixis Bank NY	8.52
Commercial paper	Bank of America Securities	8.27

**INTEREST RATE RISK**

Interest rate risk is the risk that changes in market interest rates will adversely affect the fair value of investments. As a means of limiting its exposure to fair value losses due to rising interest rates, the Authority's investment policy limits the maximum maturity period to no more than five years, unless matched to a particular cash flow need. The Authority's investment policy further provides risk will be minimized by matching investments with short and long-term cash flow requirements and monitoring the maturity dates of individual securities and the weighted average maturity of the investment portfolio, to ensure duration is commensurate with the cash flow requirements.

NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

**NOTE 3 – CASH DEPOSITS AND INVESTMENTS (cont.)**

**FAIR VALUE MEASUREMENTS**

The Authority categorizes investments measured at fair value within the fair value hierarchy established by generally accepted accounting principles. The Authority is required to classify certain assets and liabilities based on the following fair value hierarchy:

Level 1: Quoted price in active markets for identical assets.

Level 2: Inputs other than quoted prices included in Level 1 that are observable, either directly or indirectly. Debt securities are priced based on a compilation of primarily observable market information or broker quote in non-active market.

Level 3: Inputs are significant unobservable inputs.

	<u>Level 2</u>
<b>Water Fund</b>	
Investments by fair value:	
U.S. treasury notes	\$ 24,225,975
U.S. government agencies	1,648,515
Commercial paper	<u>27,184,592</u>
Water Fund Total Investments	<u>53,059,082</u>
<b>Sewage Disposal Fund</b>	
Investments by fair value:	
U.S. treasury notes	120,578,055
U.S. government agencies	1,248,875
Commercial paper	<u>66,353,499</u>
Sewage Disposal Fund Total Investments	<u>188,180,429</u>
Total Investments – Business-type activities	<u>\$ 241,239,511</u>

The Authority has no Level 1 or 3 inputs on June 30, 2023.

**NOTE 4 – RESTRICTED ASSETS**

Restricted assets, comprised of cash and investments, are available for debt service on revenue bonds and to provide funds for improvements, enlargements, extensions and construction. In accordance with the provisions of the Master Bond Ordinance and Regional System Leases, the Authority follows a sequential flow of funds in segregated accounts through which revenue receipts are deposited and are maintained at certain levels in satisfaction of all legal requirements.

NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

**NOTE 4 – RESTRICTED ASSETS (cont.)**

The following schedules provide, in the order of the flow of funds per the Master Bond Ordinance, the assignment of Water and Sewage Disposal Funds cash and investments between restricted and unrestricted assets based on the source of the monies as of June 30, 2023.

	Funded from Revenue and Other		Funded from Debt Issuance	Total
	Unrestricted	Restricted	Restricted	
<b>Water Fund</b>				
Receiving fund	\$ 67,350,172 *	\$ -	\$ -	\$ 67,350,172
Operations and maintenance	29,372,504	-	-	29,372,504
Operations and maintenance – legacy pension	-	325,928	-	325,928
Senior lien debt service	-	54,922,269	-	54,922,269
Senior lien bond reserve	-	-	101,461,882	101,461,882
Second and junior lien debt service	-	35,922,001	-	35,922,001
Second lien bond reserve	-	-	49,184,236	49,184,236
Legacy pension obligation	-	595,285	-	595,285
Water residential assistance program (WRAP)	-	4,313,454	-	4,313,454
Budget stabilization	-	2,000,000	-	2,000,000
Extraordinary repair and replacement	28,445,753	-	-	28,445,753
Improvement and extension – regional	118,538,893	-	-	118,538,893
Subtotal – Reserves Defined by Ordinance	243,707,322	98,078,937	150,646,118	492,432,377
Less: Funded by surety (noncash)	-	-	(142,325,062)	(142,325,062)
Total – Reserves Defined by Ordinance (net of surety coverage)	243,707,322	98,078,937	8,321,056	350,107,315
Cash held for the benefit of DWSD	-	17,474,699	-	17,474,699
Construction retainage and deposits	-	22,012,952	-	22,012,952
Construction fund	-	-	127,724,100	127,724,100
Total Cash, Cash Equivalents and Investments Water Fund	\$ 243,707,322	\$ 137,566,588	\$ 136,045,156	\$ 517,319,066

\* Balance includes funds sufficient for two months of required Master Bond Ordinance transfers

Surety coverage includes series specific policies; therefore, this represents the lesser of the maximum amount of the policy or amount of reserve requirement allocated to the specific series covered by such policy.

NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

**NOTE 4 – RESTRICTED ASSETS (cont.)**

	Funded from Revenue and Other		Funded from Debt Issuance	
	Unrestricted	Restricted	Restricted	Total
<b>Sewage Disposal Fund</b>				
Receiving fund	\$ 77,775,562*	\$ -	\$ -	\$ 77,775,562
Operations and maintenance	56,941,606	-	-	56,941,606
Operations and maintenance – legacy pension	-	583,707	-	583,707
Senior lien debt service	-	71,023,919	-	71,023,919
Senior lien bond reserve	-	-	105,707,533	105,707,533
Second and junior lien debt service	-	45,844,063	-	45,844,063
Second lien bond reserve	-	-	41,263,877	41,263,877
Legacy pension obligation	-	823,032	-	823,032
Water residential assistance program (WRAP)	-	5,386,630	-	5,386,630
Budget stabilization	-	5,500,000	-	5,500,000
Extraordinary repair and replacement	41,987,982	-	-	41,987,982
Improvement and extension – regional	125,564,471	-	-	125,564,471
Subtotal – Reserves Defined by Ordinance	302,269,621	129,161,351	146,971,410	578,402,382
Less: Funded by surety (noncash)	-	-	(134,091,452)	(134,091,452)
Total – Reserves Defined by Ordinance (net of surety coverage)	302,269,621	129,161,351	12,879,958	444,310,930
Cash held for the benefit of DWSD	-	24,989,273	-	24,989,273
Construction Deposit	-	31,724,639	-	31,724,639
Intergovernmental	-	12,792,876	-	12,792,876
Construction retainage	-	-	163,042,552	163,042,552
Total Cash, Cash Equivalents and Investments Sewage Disposal Fund	302,269,621	198,668,139	175,922,510	676,860,270
Total Cash, Cash Equivalents and Investments –Business-type Activities	\$ 545,976,943	\$ 336,234,727	\$ 311,967,666	\$ 1,194,179,336

\* Balance includes funds sufficient for two months of required Master Bond Ordinance transfers

Surety coverage includes series specific policies; therefore, this represents the lesser of the maximum amount of the policy or amount of reserve requirement allocated to the specific series covered by such policy.

NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

**NOTE 4 – RESTRICTED ASSETS (cont.)**

A reconciliation of restricted assets to restricted net position is as follows:

	Water Fund	Sewage Disposal Fund	Total Business-type Activities
Restricted assets from schedule above:			
From revenue and other	\$ 137,566,588	\$ 198,668,139	\$ 336,234,727
From debt issuance	136,045,156	175,922,510	311,967,666
Amounts payable for liabilities and debt	(215,182,357)	(278,750,228)	(493,932,585)
Restricted Net Position	<u>\$ 58,429,387</u>	<u>\$ 95,840,421</u>	<u>\$ 154,269,808</u>
Restricted net position for:			
Construction	\$ -	\$ 2,180,985	\$ 2,180,985
Debt service	56,139,482	91,296,778	147,436,260
Payment assistance program	2,289,905	2,362,658	4,652,563
Total Restricted Net Position	<u>\$ 58,429,387</u>	<u>\$ 95,840,421</u>	<u>\$ 154,269,808</u>

The following summary reconciles the above cash and investment balances with the balances per the Statement of Net Position. The allocation of restricted balances to current and noncurrent categories is not intended to directly align with the funding source allocation included in the schedule.

	Unrestricted	Restricted Current	Restricted Noncurrent	Total
<b>Water Fund</b>				
Cash and cash equivalents	\$ 222,625,550	\$ 127,679,570	\$ 96,480,165	\$ 446,785,285
Cash held for the benefit of DWSD	-	17,474,699	-	17,474,699
Investments	21,081,772	9,975,144	22,002,166	53,059,082
Total Water Fund	<u>243,707,322</u>	<u>155,129,413</u>	<u>118,482,331</u>	<u>517,319,066</u>
<b>Sewage Disposal Fund</b>				
Cash and cash equivalents	260,110,098	137,098,372	66,482,098	463,690,568
Cash held for the benefit of DWSD	-	24,989,273	-	24,989,273
Investments	42,159,523	33,698,337	112,322,569	188,180,429
Total Sewage Disposal Fund	<u>302,269,621</u>	<u>195,785,982</u>	<u>178,804,667</u>	<u>676,860,270</u>
Total Business-type Activities	<u>\$ 545,976,943</u>	<u>\$ 350,915,395</u>	<u>\$ 297,286,998</u>	<u>\$ 1,194,179,336</u>

NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

**NOTE 5 – RECEIVABLES, NET**

The following is a summary of the net receivables as of June 30, 2023:

	Water Fund	Sewage Disposal Fund	Total Business-type Activities
Receivables, net:			
Billed	\$ 55,359,908	\$ 55,950,458	\$ 111,310,366
Unbilled	33,527,694	24,240,500	57,768,194
Other	286,079	115,479	401,558
Subtotal	89,173,681	80,306,437	169,480,118
Allowance for doubtful accounts	(16,225,907)	(42,620,781)	(58,846,688)
Total Receivables, net	\$ 72,947,774	\$ 37,685,656	\$ 110,633,430

**NOTE 6 – DUE FROM OTHER GOVERNMENTS**

Due from other governments in the statement of net position are as follows:

	Water Fund	Sewage Disposal Fund
DWSD-Billed shared services	\$ 644,536	\$ 757,573
DWSD-Unbilled shared services	1,351,751	719,565
DWSD-Accrued interest on obligation receivable	306,114	4,215
Intergovernmental agreements and other	2,233,678	1,028,184
Grants-Federal and State	22,000	2,362,280
State of Michigan FEMA	1,227,486	1,223,900
Total Due From Other Governments	\$ 5,785,565	\$ 6,095,717

**NOTE 7 – DUE TO AND DUE FROM OTHER FUNDS**

Interfund balances result from the time lag between the dates the interfund reimbursements occur and the payment between the funds are made. Interfund balances for the year ended June 30, 2023 consisted of the following:

	Water Fund – Due from Sewage Disposal Fund	Sewage Disposal Fund - Due from Water Fund	Total Due To
Water Fund – Due to Sewage Disposal Fund	\$ -	\$ 2,214,714	\$ 2,214,714
Sewage Disposal Fund – Due to Water Fund	1,032,754	-	1,032,754
Total Due From	\$ 1,032,754	\$ 2,214,714	\$ 3,247,468



NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

**NOTE 8 – CONTRACTUAL OBLIGATION RECEIVABLE**

As part of the regional system lease transaction, in which GLWA leased the regional water and sewage disposal system from the City of Detroit, all DWSD revenue bonds outstanding as of December 31, 2015, including those purchased by the Michigan Finance Authority under its state revolving loan program, were assumed by GLWA with the consent of bondholders. The total bonds assumed by GLWA on January 1, 2016 totaled \$2,313,683,761 for the Water Fund and \$3,291,282,050 for the Sewage Disposal Fund.

Per the lease agreements, the WSSA and the MBO, the Detroit retail class continues to pay its common-to-all share of debt service revenue requirements and its allocated share of debt service revenue requirements associated with improvements to the local water and sewage disposal systems. Payments on the debt service incurred by GLWA on the outstanding revenue bonds assumed as of December 31, 2015 are to be allocated using an agreed-upon percentage of total debt service associated with bond-financed local improvements over the life of such bonds, though the bonds themselves continue to be secured by the net revenue of GLWA, and the revenues of the Detroit retail class. The MOU dated June 27, 2018 defines an agreed upon allocation and amortization schedule. This allocated debt is referred to as "Bifurcated debt" in the table below. Any additional debt issued by GLWA on behalf of the local system is also included in the obligation receivable. DWSD is billed monthly for the debt requirements on a debt set-aside basis so the funds are available when the associated debt payment is due.

Changes in obligation receivable for the year ended June 30, 2023 were as follows:

	Beginning Balance	Increase	Decrease	Debt Forgiveness	Ending Balance	Due Within One Year
<b>Water Fund</b>						
Obligation Receivable						
Bifurcated debt	\$ 368,672,900	\$ -	\$ (15,890,000)	\$ -	\$ 352,782,900	\$ 16,646,300
New money bonds	136,320,000	-	-	-	136,320,000	1,670,000
State revolving funds	43,759,364	17,694,392	(1,468,850)	(1,758,494)	58,226,412	1,495,200
Total Obligation						
Receivable	548,752,264	17,694,392	(17,358,850)	(1,758,494)	547,329,312	19,811,500
Deferred amounts for:						
Unamortized premiums	18,866,946	-	(767,171)	-	18,099,775	796,786
Total Water Fund	567,619,210	17,694,392	(18,126,021)	(1,758,494)	565,429,087	20,608,286
<b>Sewage Disposal Fund</b>						
Obligation Receivable						
Bifurcated debt	298,804,000	-	(13,333,300)	-	285,470,700	13,910,600
New money bonds	77,345,000	-	(1,530,000)	-	75,815,000	1,590,000
State revolving funds	480,152	853,459	(132,000)	(358,544)	843,067	135,000
Total Obligation						
Receivable	376,629,152	853,459	(14,995,300)	(358,544)	362,128,767	15,635,600
Deferred amounts for:						
Unamortized premiums	8,569,443	-	(408,374)	-	8,161,069	425,125
Total Sewage Disposal Fund	385,198,595	853,459	(15,403,674)	(358,544)	370,289,836	16,060,725
Total Business-type Activities	\$ 952,817,805	\$ 18,547,851	\$ (33,529,695)	\$ (2,117,038)	\$ 935,718,923	\$ 36,669,011

NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

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**NOTE 8 – CONTRACTUAL OBLIGATION RECEIVABLE (cont.)**

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The current obligation receivable payment schedule is as follows:

	Year Ended June 30	Principal	Interest	Total
<b>Water Fund</b>				
2024	\$	19,811,500	\$ 24,819,135	\$ 44,630,635
2025		21,209,050	23,905,698	45,114,748
2026		22,163,300	22,945,688	45,108,988
2027		23,171,000	21,941,276	45,112,276
2028		24,215,100	20,890,011	45,105,111
2029-2033		138,659,900	86,878,204	225,538,104
2034-2038		173,334,200	52,154,636	225,488,836
2039-2043		50,743,810	24,741,940	75,485,750
2044-2048		65,133,561	9,311,955	74,445,516
2049-2052		8,887,891	421,146	9,309,037
Total Water Fund		<u>547,329,312</u>	<u>288,009,689</u>	<u>835,339,001</u>
<b>Sewage Disposal Fund</b>				
2024		15,635,600	16,167,161	31,802,761
2025		16,317,900	15,482,611	31,800,511
2026		17,031,400	14,768,061	31,799,461
2027		17,777,000	14,022,161	31,799,161
2028		18,556,000	13,243,311	31,799,311
2029-2033		105,095,767	53,304,981	158,400,748
2034-2038		130,175,100	28,077,000	158,252,100
2039-2043		18,250,000	8,648,750	26,898,750
2044-2048		<u>23,290,000</u>	<u>3,607,250</u>	<u>26,897,250</u>
Total Sewage Disposal Fund		<u>362,128,767</u>	<u>167,321,286</u>	<u>529,450,053</u>
Total Business-type Activities		<u>\$ 909,458,079</u>	<u>\$ 455,330,975</u>	<u>\$ 1,364,789,054</u>

NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

**NOTE 9 – CAPITAL ASSETS**

Capital assets activity for the year ended June 30, 2023 was as follows:

	Beginning Balance	Additions	Disposals	Transfers	Ending Balance
<b>Water Fund</b>					
Nondepreciable and nonamortizable capital assets					
Land	\$ 34,907,091	\$ -	\$ (459,432)	\$ 30,000	\$ 34,477,659
Easements	259,138,946	-	-	-	259,138,946
Construction in progress	272,954,060	195,531,135	(21,543,446)	(72,697,796)	374,243,953
Prepaid subscription assets	413,924	2,282,630	-	-	2,696,554
Total Nondepreciable and Nonamortizable Capital Assets	567,414,021	197,813,765	(22,002,878)	(72,667,796)	670,557,112
Depreciated and amortized capital assets					
Site improvements	84,054,180	-	-	-	84,054,180
Buildings and structures	607,176,076	301,069	-	4,396,850	611,873,995
Infrastructure	668,116,959	-	-	18,883,260	687,000,219
Machinery and equipment	791,592,580	2,770,921	(1,227,769)	49,387,686	842,523,418
Vehicles	5,281,129	1,010,099	(35,607)	-	6,255,621
Leasehold improvements	8,407,125	14,660	-	-	8,421,785
Intangible asset – raw water rights	106,999,919	-	-	-	106,999,919
Total Depreciable and Amortizable Assets	2,271,627,968	4,096,749	(1,263,376)	72,667,796	2,347,129,137
Less: Accumulated depreciation and amortization					
Site improvements	(54,638,999)	(6,855,620)	-	-	(61,494,619)
Buildings and structures	(197,253,224)	(25,200,015)	-	-	(222,453,239)
Infrastructure	(248,147,691)	(38,825,276)	-	-	(286,972,967)
Machinery and equipment	(367,472,545)	(54,280,617)	845,572	-	(420,907,590)
Vehicles	(2,289,286)	(766,983)	33,198	-	(3,023,071)
Leasehold improvements	(1,166,715)	(557,251)	-	-	(1,723,966)
Intangible asset – raw water rights	(16,347,210)	(3,566,664)	-	-	(19,913,874)
Total Accumulated Depreciation and Amortization	(887,315,670)	(130,052,426)	878,770	-	(1,016,489,326)
Total Depreciated and Amortized Capital Assets, Net	1,384,312,298	(125,955,677)	(384,606)	72,667,796	1,330,639,811
Water Fund Net Capital Assets	\$ 1,951,726,319	\$ 71,858,088	\$(22,387,484)	\$ -	\$ 2,001,196,923

NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

**NOTE 9 – CAPITAL ASSETS (cont.)**

	Beginning Balance	Additions	Disposals	Transfers	Ending Balance
<b>Sewage Disposal Fund</b>					
Nondepreciable and nonamortizable capital assets					
Land	\$ 28,394,607	\$ -	\$ -	\$ 103,090	\$ 28,497,697
Easements	98,309,513	-	-	9,000	98,318,513
Construction in progress	193,100,463	102,501,332	-	(6,913,195)	288,688,600
Prepaid subscription assets	721,724	1,974,830	-	-	2,696,554
<b>Total Nondepreciable and Nonamortizable Capital Assets</b>	<b>320,526,307</b>	<b>104,476,162</b>	<b>-</b>	<b>(6,801,105)</b>	<b>418,201,364</b>
Depreciated and amortized capital assets					
Site improvements	52,506,188	29,059	-	297,474	52,832,721
Buildings and structures	1,167,449,113	111,299	(3,357,364)	2,739,335	1,166,942,383
Infrastructure	625,707,645	-	-	-	625,707,645
Machinery and equipment	1,366,957,111	5,076,774	(2,041,910)	3,764,296	1,373,756,271
Vehicles	6,917,905	1,515,871	(40,344)	-	8,393,432
Leasehold improvements	3,763,966	14,661	-	-	3,778,627
Intangible asset – right to use asset	4,543,607	-	-	-	4,543,607
<b>Total Depreciable and Amortizable Assets</b>	<b>3,227,845,535</b>	<b>6,747,664</b>	<b>(5,439,618)</b>	<b>6,801,105</b>	<b>3,235,954,686</b>
Less: Accumulated depreciation and amortization					
Site improvements	(32,508,704)	(3,243,281)	-	-	(35,751,985)
Buildings and structures	(291,920,318)	(37,049,741)	528,862	-	(328,441,197)
Infrastructure	(89,348,382)	(13,814,055)	-	-	(103,162,437)
Machinery and equipment	(667,327,028)	(108,062,343)	1,704,506	-	(773,684,865)
Vehicles	(2,712,175)	(1,053,257)	40,344	-	(3,725,088)
Leasehold improvements	(707,726)	(248,161)	-	-	(955,887)
Intangible asset – right to use asset	(549,630)	(439,704)	-	-	(989,334)
<b>Total Accumulated Depreciation and Amortization</b>	<b>(1,085,073,963)</b>	<b>(163,910,542)</b>	<b>2,273,712</b>	<b>-</b>	<b>(1,246,710,793)</b>
<b>Total Depreciated and Amortized Capital Assets, Net</b>	<b>2,142,771,572</b>	<b>(157,162,878)</b>	<b>(3,165,906)</b>	<b>6,801,105</b>	<b>1,989,243,893</b>
<b>Sewage Disposal Fund Net Capital Assets</b>	<b>2,463,297,879</b>	<b>(52,686,716)</b>	<b>(3,165,906)</b>	<b>-</b>	<b>2,407,445,257</b>
<b>Business-type Activities Capital Assets, Net</b>	<b>\$4,415,024,198</b>	<b>\$ 19,171,372</b>	<b>\$(25,553,390)</b>	<b>\$ -</b>	<b>\$ 4,408,642,180</b>

NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

**NOTE 9 – CAPITAL ASSETS (cont.)**

**ASSET IMPAIRMENT**

Capital assets are evaluated annually to determine if any asset impairments exist, defined as a significant, unexpected decline in the service utility of a capital asset. The 2015 Water Master Plan recommended right-sizing the capacity of the Regional Water System based on the trends of lower projections of population and water volume demands. The Water Master Plan found that the Authority's combined water treatment plant design capacity was estimated to be over 60% greater than the forecasted 20-year water demands. The total rated capacity of the existing five water treatment plants is 1.7 billion gallons per day. The 2015 Master Plan Update identified likely maximum demands in the range of up to 1.0 billion gallons per day during the 20-year planning period. This provided the rationale to strategically align capacity and service requirements and planning for structural de-rating of capacity as warranted at all of the water treatment plants. The Water Master Plan identified the financial benefit of capital cost avoidance in reducing the combined treatment capacity at all five of the GLWA Water Treatment Plants. That recommendation included the decommissioning of Water Treatment Plants. During FY 2023, operational, regulatory and life cycle cost updates no longer support decommissioning Water Treatment Plants. A report related to the factors that impacted this decision was presented to the GLWA Board of Directors on June 28, 2023 which included a write-off of some or all of the activity for the following CIP projects: 122003 – Waterworks Park to NE Transmission Main, 122017 – Seven Mile/Nevada Transmission Main, and 122018 – Garland, Hurlbut, Bewick Transmission Main. As a result \$20,902,626 has been recognized as a loss for the discontinued capital projects.

**RAW WATER RIGHTS ASSET**

Effective December 1, 2017, the Authority, the City of Flint, Karegnondi Water Authority (KWA), Genesee County Drain Commission (GCDC) and State of Michigan entered into a long-term partnership agreement to satisfy a number of critical water service needs across the region. Key provisions of a master agreement includes: 1) a 30-year water service contract with the City of Flint that establishes the Authority as the long-term water source for the City of Flint and credits the City of Flint for its debt service payment obligations on existing KWA bonds for the building of its raw water intake and supply line; 2) a license to the Authority of the 72-inch line serving the City of Flint; and 3) a 30-year contract for reciprocal, emergency water services between the Authority and GCDC.

The 30-year water service contract with the City of Flint includes a license to raw water rights on 17.46 MGD of the 18 MGD purchased by Flint as part of KWA bond obligation. These license rights constitute an intangible asset under governmental accounting standards. Therefore, the Authority has recorded an intangible asset and purchase obligation liability of approximately \$107 million associated with this agreement in the accompanying financial statements. The Authority is amortizing the intangible asset over 30 years. As the City of Flint satisfies its monthly bond payment obligations to KWA, the Authority credits Flint's water invoice for that payment and reduces the Authority's purchase obligation. This process will continue each year over the 30-year life of the asset.

**PREPAID SUBSCRIPTION ASSETS**

The Authority has entered into two contracts for Subscription-Based Information Technology Arrangements (SBITA) that will be recorded under GASB 96. The SBITA's are in the initial implementation stage, therefore costs associated with these SBITA's have been recorded as prepaid subscription assets. Once the subscription assets are placed in service, the costs incurred and any future subscription liability (present value of expected future payments) will be recognized as an intangible right-to-use subscription asset and amortized over the subscription term.

**NOTE 10 – ACCRUED LIABILITIES**

As described in Note 1, other accrued liabilities in the statement of net position are as follows:

	Water Fund	Sewage Disposal Fund
Cash held for the benefit of DWSD	\$ 17,474,699	\$ 24,989,273
Advanced insurance proceeds	-	826,831
Due to WRAP service delivery partners	2,023,549	3,023,972
Advanced billings	1,707,978	-
Customer deposit	3,904,990	-
Total Other Accrued Liabilities	<u>\$ 25,111,216</u>	<u>\$ 28,840,076</u>

**NOTE 11 – DUE TO OTHER GOVERNMENTS**

Due to other governments, which consists entirely of amounts due to the DWSD, in the statement of net position is as follows:

	Water Fund	Sewage Disposal Fund
Shared services	\$ 3,124,058	\$ -
Green infrastructure	-	3,750,000
Total Due to Other Governments	<u>\$ 3,124,058</u>	<u>\$ 3,750,000</u>

NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

**NOTE 12 – LONG-TERM DEBT**

Changes in long-term debt for the year ended June 30, 2023 were as follows:

	Beginning Balance	Increase	Decrease	Debt Forgiveness	Ending Balance	Due Within One Year
<b>Water Fund</b>						
Bonds and Loans						
Revenue bonds	\$ 2,128,890,000	\$ 207,215,000	\$ (56,845,000)	\$ -	\$ 2,279,260,000	\$ 40,250,000
Notes from direct borrowings and direct placements - State revolving loan	109,429,462	104,782,590	(5,096,750)	(1,758,494)	207,356,808	6,985,000
Total Bonds and Loans	2,238,319,462	311,997,590	(61,941,750)	(1,758,494)	2,486,616,808	47,235,000
Deferred amounts for:						
Unamortized premiums	167,471,141	22,299,260	(16,285,358)	-	173,485,043	15,838,410
Unamortized discounts	(6,461,062)	-	897,517	-	(5,563,545)	(741,328)
Total Bonds and Loans, Net	2,399,329,541	334,296,850	(77,329,591)	(1,758,494)	2,654,538,306	62,332,082
Other Debt						
Raw water rights obligation	95,361,056	-	(2,845,282)	-	92,515,774	2,963,619
BC Note obligation	16,542,293	-	(203,954)	-	16,338,339	214,151
Total Water Fund Debt	\$ 2,511,232,890	\$ 334,296,850	\$ (80,378,827)	\$ (1,758,494)	\$ 2,763,392,419	\$ 65,509,852
	Beginning Balance	Increase	Decrease *	Debt Forgiveness	Ending Balance	Due Within One Year
<b>Sewage Disposal Fund</b>						
Bonds and Loans						
Revenue bonds	\$2,439,745,000	\$ 210,455,000	\$ (89,065,000)	\$ -	\$ 2,561,135,000	\$ 42,565,000
Notes from direct borrowings and direct placements-State revolving loan	379,648,216	18,565,876	(47,936,430)	(358,544)	349,919,118	40,360,000
Total Bonds and Loans	2,819,393,216	229,020,876	(137,001,430)	(358,544)	2,911,054,118	82,925,000
Deferred amounts for:						
Unamortized premiums	117,958,567	21,405,430	(13,213,825)	-	126,150,172	12,912,998
Unamortized discounts	(59,316,382)	-	8,793,079	-	(50,523,303)	(8,444,740)
Total Bonds and Loans, Net	2,878,035,401	250,426,306	(141,422,176)	(358,544)	2,986,680,987	87,393,258
Other Debt						
BC Note obligation	37,208,869	-	(458,757)	-	36,750,112	481,694
Total Sewage Disposal Fund Debt	2,915,244,270	250,426,306	(141,880,933)	(358,544)	3,023,431,099	87,874,952
Total Business-type Activities	\$5,426,477,160	\$ 584,723,156	\$ (222,259,760)	\$ (2,117,038)	\$5,786,823,518	\$153,384,804

\* Of the \$89,065,000 decrease in revenue bonds, \$17,985,000 relates to the refunding. Of the \$13,213,825 decrease in unamortized premium, \$118,805 relates to the refunding.

NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

**NOTE 12 – LONG-TERM DEBT (cont.)**

As of June 30, 2023, aggregate debt service requirements of the Authority's bonds and loans (fixed and variable-rate) were as follows. These amounts assume that current interest rates on variable-rate bonds will remain the same for their respective terms. As these rates vary, interest payments on variable-rate bonds will vary.

Year Ended June 30	Bonds		Notes from Direct Borrowings and Direct Placements		
	Principal	Interest	Principal	Interest	Total
Water Fund					
2024 *	\$ 40,250,000	\$ 91,625,071	\$ 6,985,000	\$ 4,099,446	\$ 142,959,517
2025	82,590,000	103,512,277	12,453,950	3,888,845	202,445,072
2026	86,795,000	99,634,323	12,710,000	3,641,836	202,781,159
2027	90,805,000	95,382,395	12,952,820	3,389,809	202,530,024
2028	95,310,000	90,959,407	11,560,000	3,150,348	200,979,755
2029-2033	561,450,000	378,469,377	60,195,190	12,292,397	1,012,406,964
2034-2038	619,035,000	227,124,415	45,605,907	6,887,898	898,653,220
2039-2043	357,870,000	124,057,575	32,398,814	3,045,047	517,371,436
2044-2048	283,025,000	48,048,437	9,272,237	901,376	341,247,050
2049-2053	62,130,000	7,691,537	3,222,890	137,896	73,182,323
Total Water Fund	2,279,260,000	1,266,504,814	207,356,808	41,434,898	3,794,556,520
Sewage Disposal Fund					
2024 *	42,565,000	94,525,671	40,360,000	7,540,414	184,991,085
2025	98,650,000	108,619,233	44,155,870	6,620,084	258,045,187
2026	102,310,000	103,967,844	30,385,000	5,766,016	242,428,860
2027	112,375,000	98,639,973	27,170,308	5,153,979	243,339,260
2028	121,380,000	93,064,784	26,015,853	4,580,573	245,041,210
2029-2033	709,730,000	371,091,560	100,834,490	15,331,025	1,196,987,075
2034-2038	804,840,000	196,090,451	68,458,488	5,307,360	1,074,696,299
2039-2043	359,685,000	74,972,883	12,539,109	389,078	447,586,070
2044-2048	129,810,000	34,090,064	-	-	163,900,064
2049-2053	79,790,000	10,691,206	-	-	90,481,206
Total Sewage Disposal Fund	2,561,135,000	1,185,753,669	349,919,118	50,688,529	4,147,496,316
Total Business- type Activities	\$ 4,840,395,000	\$ 2,452,258,483	\$ 557,275,926	\$ 92,123,427	\$ 7,942,052,836

- For bonds issued through the Michigan Finance Authority (MFA) in 2014 and 2015, the Authority is required to make payment on these obligations to the MFA depository account five business days prior to the actual due date of the bond principal and interest payments. Therefore, the payments for principal and interest due on July 1, 2023 are not included in the debt service requirements amounts above as they were paid on June 26, 2023.



NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

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**NOTE 12 – LONG-TERM DEBT (cont.)**

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**REVENUE BONDS**

Net revenues of the Authority are pledged to repayment of bonds; following are the revenue bonds payable at June 30, 2023:

Issue	Bond Date	Original Issue Amount	Range of Interest Rates	Maturity Dates	Outstanding Ending Balance	Callable at Par
<b>Water Fund</b>						
Series 2003A	1/30/03	\$ 234,805,000	5.00%	7/01/34	\$ 100,000	\$ 100,000
Series 2003B	1/30/03	172,945,000	5.00%	7/01/34	100,000	100,000
Series 2005B	5/14/08	194,900,000	5.25%	7/01/35	100,000	100,000
Series 2006A	8/16/06	280,000,000	5.00%	7/01/34	100,000	100,000
Series 2006B	4/01/09	120,000,000	6.25%	7/01/36	100,000	100,000
Series 2014D-1	9/04/14	206,540,000	5.00%	7/01/35-37	44,190,000	44,190,000
Series 2014D-2	9/04/14	188,455,000	5.00%	7/01/24-28	182,480,000	136,925,000
Series 2014D-4	9/04/14	307,645,000	5.00%	7/01/29-34	209,360,000	209,360,000
Series 2014D-6	9/04/14	65,425,000	5.00%	7/01/24-36	45,820,000	43,690,000
Series 2015D-1	12/15/15	89,430,000	5.00%	7/01/27-35	69,275,000	69,275,000
Series 2015D-2	12/15/15	37,235,000	5.00%	7/01/34	37,235,000	37,235,000
Series 2016A	10/27/16	88,000,000	5.00%	7/01/23-46	87,990,000	87,970,000
Series 2016B	10/27/16	163,830,000	5.00%	7/01/23-46	163,820,000	163,800,000
Series 2016C	10/27/16	443,930,000	5.00-5.25%	7/01/23-35	439,065,000	367,685,000
Series 2016D	10/27/16	222,045,000	4.00-5.00%	7/01/24-36	222,045,000	217,380,000
Series 2018A	10/3/18	155,595,000	5.00%	7/01/23-29	109,040,000	-
Series 2020A	5/12/20	42,445,000	5.00%	7/01/24-49	42,445,000	35,685,000
Series 2020B	5/12/20	43,135,000	5.00%	7/01/24-49	43,135,000	36,265,000
Series 2020C**	5/12/20	377,515,000	1.879-3.473%	7/01/23-41	375,645,000	317,530,000
Series 2022A	9/13/22	137,470,000	5.00-5.25%	7/01/25-52	137,470,000	132,900,000
Series 2022B	9/13/22	69,745,000	5.00-5.50%	7/01/25-52	69,745,000	66,710,000
Total Water Fund Revenue Bonds Payable					<u>\$ 2,279,260,000</u>	

NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

**NOTE 12 – LONG-TERM DEBT (cont.)**

Issue	Bond Date	Original Issue Amount	Range of Interest Rates	Maturity Dates	Outstanding Ending Balance	Callable at Par
<b>Sewage Disposal Fund</b>						
Series 2001B	9/15/01	110,550,000	5.50%	7/01/23-29	\$ 78,895,000	\$ -
Series 2003B	6/17/09	150,000,000	7.50%	7/01/33	100,000	100,000
Series 2004A	2/12/04	101,435,000	5.25%	7/01/23-24	11,095,000	-
Series 2005A	3/17/05	273,355,000	4.50%	7/01/35	100,000	100,000
Series 2005C	4/05/05	63,160,000	5.00%	7/01/25	100,000	100,000
Series 2006B	8/10/06	250,000,000	5.00%	7/01/36	100,000	100,000
Series 2006D	12/14/06	370,000,000	Variable(*)	7/01/26-32	239,475,000	239,475,000
Series 2014C-3	9/04/14	446,170,000	5.00%	7/01/24-33	347,585,000	303,570,000
Series 2014C-6	9/04/14	143,880,000	5.00%	7/01/32-33	88,900,000	88,900,000
Series 2014C-7	9/04/14	76,715,000	5.00%	7/01/24-36	48,800,000	44,065,000
Series 2015C	12/15/15	197,660,000	5.00%	7/01/26-35	197,160,000	197,160,000
Series 2016B	10/27/16	126,105,000	5.00%	7/01/24-34	126,105,000	111,660,000
Series 2016C	10/27/16	295,190,000	4.00-5.00%	7/01/27-36	295,190,000	295,190,000
Series 2018A	10/03/18	81,595,000	5.00%	7/01/23-48	77,345,000	67,040,000
Series 2018B	10/03/18	131,690,000	5.00%	7/01/24-29	131,690,000	-
Series 2018C**	10/03/18	44,180,000	3.5-3.613%	7/01/23-24	31,260,000	-
Series 2020A**	6/16/20	594,930,000	1.503-3.506%	7/01/23-44	594,930,000	108,540,000
Series 2020B**	6/16/20	92,525,000	2.615-3.606%	7/01/23-44	81,850,000	15,325,000
Series 2022A	9/13/22	125,975,000	5.00-5.25%	7/01/25-52	125,975,000	122,440,000
Series 2022B	9/13/22	71,990,000	5.00-5.25%	7/01/25-52	71,990,000	68,405,000
Series 2022C	9/13/22	12,490,000	5.00%	7/01/23	12,490,000	-
Total Sewage Disposal Fund Revenue Bonds Payable					2,561,135,000	
Total Business-type Activities					<u>\$ 4,840,395,000</u>	

\* Interest rates are reset quarterly based upon a formula specified in the bond using the three-month LIBOR rate. Starting with the October 1, 2023 interest rate adjustment date, the Secured Overnight Financing Rate (SOFR) will be used in place of the LIBOR rate.

\*\* Taxable bond

**New Money Bond – Water Fund**

On September 13, 2022, the Authority completed a new money water supply system revenue bond transaction. The Authority issued \$137,470,000 in Series 2022A senior lien revenue bonds and \$69,745,000 in 2022B second lien revenue bonds for a total issue of \$207,215,000.

**Refunded Debt and New Money Bond – Sewage Disposal Fund**

On September 13, 2022, the Authority completed a sewage disposal system revenue bond refunding and new money transaction. The Authority issued \$125,975,000 in Series 2022A senior lien revenue bonds, \$71,990,000 in Series 2022B second lien revenue bonds and \$12,490,000 in Series 2022C revenue refunding bonds for a total issue of \$210,455,000. The net proceeds of the Series 2022C were placed with an escrow agent to refund \$17,985,000 of Series 2012A revenue bonds which were called on September 16, 2022. The net present value savings from the refunding transaction was \$211,718.

NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

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**NOTE 12 – LONG-TERM DEBT (cont.)**

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**Arbitrage**

Certain bonds are subject to arbitrage rebate requirements in accordance with regulations issued by the U.S. Treasury Department. The requirements generally stipulate that earnings from the investment of the tax-exempt bond proceeds that exceeds related interest costs on the bonds must be remitted to the Federal government on every fifth anniversary of each bond issue. The Authority did not have an arbitrage rebate liability as of June 30, 2023.

**STATE REVOLVING FUND LOANS**

The Authority participates in direct borrowings through the State of Michigan Drinking Water State Revolving Fund (DWSRF) to finance qualified water supply system projects and the Clean Water State Revolving Fund (CWSRF) to finance qualified sewage disposal system projects. As GLWA draws additional amounts, the outstanding principal amounts of such loans will correspondingly increase. All loans are callable under terms specified in the loan agreements.

The Authority received direct borrowing loans from the State of Michigan Revolving Loan Fund during the year ended June 30, 2023 for the Water Fund totaling \$104,782,590 of which \$1,758,494 has been forgiven, and the Sewage Disposal Fund received \$18,565,876 of which \$358,544 has been forgiven. The water loans forgiven and \$17,694,392 of the proceeds of the Water Fund loans were a pass through to DWSD, the subrecipient of the loans. The remaining proceeds of the Water Fund loans were used to pay costs of acquiring, constructing extensions, and making certain repairs and improvements to the regional water system. The sewer loans forgiven and \$853,459 of the Sewage Disposal Fund loans were a pass through to DWSD the subrecipient of the loans. The remaining proceeds of the Sewage Disposal Fund loans were used to pay costs of acquiring, constructing extensions, and making certain repairs and improvements to the regional sewage disposal system. At June 30, 2023, \$73,915,545 for the Water Fund and \$204,517,200 for the Sewage Disposal Fund was authorized and unissued. Of the authorized and unissued \$9,145,105 for the Water Fund and \$9,138,183 of the Sewage Disposal Fund are for pass through loans to DWSD.

Net revenues of the Authority are pledged for repayment of the loans.

NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

**NOTE 12 – LONG-TERM DEBT (cont.)**

The following is a schedule of the state revolving loans payable at June 30, 2023:

Issue	Bond Date	Amount Issued	Range of Interest Rates	Maturity Dates	Outstanding Ending Balance
<b>Water Fund</b>					
Series 2005 SRF-1	9/22/05	\$ 13,805,164	2.125%	10/01/23-26	\$ 3,130,164
Series 2005 SRF-2	9/22/05	8,891,730	2.125%	10/01/23-26	1,976,730
Series 2006 SRF-1	9/21/06	5,180,926	2.125%	10/01/23-26	1,165,926
Series 2008 SRF-1	9/29/08	2,590,941	2.50%	10/01/23-28	650,941
Series 2016 SRF-1	9/16/16	8,273,168	2.50%	4/01/24-48	7,258,168
Series 2016 SRF-2	9/16/16	3,393,543	2.50%	4/01/24-48	2,968,543
Series 2017 SRF-1	6/23/17	5,807,931	2.50%	10/1/23-48	5,192,931
Series 2019 SRF-1	6/7/19	8,330,000	2.00%	10/1/23-40	7,635,000
Series 2019 SRF-2	8/30/19	29,950,000	2.00%	4/1/24-42	27,824,226
Series 2019 SRF-3	8/30/19	11,788,056	2.00%	10/1/23-43	7,447,932
Series 2020 SRF-1	7/31/20	20,538,700	2.00%	4/1/24-52	19,514,960
Series 2020 SRF-2	8/28/20	9,000,000	2.00%	10/1/23-39	6,940,958
Series 2020 SRF-3	8/28/20	8,960,000	2.00%	4/1/24-41	7,909,220
Series 2020 SRF-4	9/30/20	12,153,050	2.00%	4/1/24-47	8,832,593
Series 2021 SRF-1	6/21/21	11,940,000	1.875%	10/1/24-31	4,209,249
Series 2021 SRF-2	8/30/21	104,725,000	1.875%	10/1/24-34	50,945,907
Series 2021 SRF-3	8/30/21	11,528,950	1.875%	10/1/24-41	9,678,360
Series 2022 SRF-2	9/20/22	34,075,000	1.875%	10/1/23-43	34,075,000
Total Water Fund State Revolving Loans Payable					<u>207,356,808</u>

NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

**NOTE 12 – LONG-TERM DEBT (cont.)**

Issue	Bond Date	Amount Issued	Range of Interest Rates	Maturity Dates	Outstanding Ending Balance
<b>Sewage Disposal Fund</b>					
Series 2001 SRF-1	6/28/01	\$ 82,200,000	2.50%	10/01/23-24	\$ 10,190,000
Series 2001-SRF-2	12/20/01	59,850,000	2.50%	10/01/23-24	7,420,000
Series 2002 SRF-3	12/19/02	31,549,466	2.50%	10/01/23-24	3,594,466
Series 2003 SRF-1	6/26/03	48,520,000	2.50%	10/01/23-25	8,910,000
Series 2003 SRF-2	9/25/03	25,055,370	2.50%	4/01/24-25	3,080,370
Series 2004 SRF-1	6/24/04	2,910,000	2.125%	10/01/23-24	350,000
Series 2004 SRF-2	6/24/04	18,353,459	2.125%	4/01/24-25	2,203,459
Series 2004 SRF-3	6/24/04	12,722,575	2.125%	4/01/24-25	1,517,575
Series 2007 SRF-1	9/20/07	167,540,598	1.625%	10/01/23-29	64,885,598
Series 2009 SRF-1	4/17/09	13,970,062	2.50%	4/01/24-30	5,500,062
Series 2010 SRF-1	1/22/10	4,214,763	2.50%	4/01/24-31	1,910,763
Series 2012 SRF-1	8/30/12	14,950,000	2.50%	10/01/23-34	9,840,000
Series 2015A SRF	3/20/15	79,500,000	2.50%	4/01/24-36	56,015,000
Series 2015B SRF	3/20/15	27,175,304	2.50%	10/01/23-35	18,795,304
Series 2015D SRF	12/11/15	15,321,478	2.50%	10/01/23-35	10,391,478
Series 2016 SAW-1	5/25/16	10,000,000	2.50%	10/01/23-38	8,380,000
Series 2016 SRF-1	9/16/16	15,463,628	2.50%	4/01/24-38	12,133,628
Series 2016 SRF-2	9/16/16	48,315,683	2.50%	4/01/24-39	40,045,683
Series 2017 SRF-1	6/23/17	33,566,682	2.50%	10/01/23-38	28,196,682
Series 2018 SRF-2	9/14/18	17,510,000	2.00%	10/01/23-42	17,510,000
Series 2020 SRF-1	3/27/20	28,350,000	2.00%	10/1/23-35	22,086,744
Series 2020 SRF-2	9/30/20	3,232,000	2.00%	10/1/23-25	843,067
Series 2021 SRF-1	3/26/21	12,940,000	1.875%	10/1/23-30	7,438,078
Series 2021 SRF-2 **	9/24/21	6,881,250	1.875%	-	-
Series 2022 SRF-1 *	6/6/22	34,195,000	1.875%	-	-
Series 2022 SRF-2	8/29/22	50,245,000	1.875%	4/1/25-27	5,630,308
Series 2022 SRF-3	9/20/22	19,035,000	1.875%	4/1/25-28	3,050,853
Series 2023 SRF-1 *	6/5/23	88,820,000	1.875%	-	-

Total Sewage Disposal Fund State Revolving Loans Payable

349,919,118

Total Business-type Activities

\$ 557,275,926

\* Loan has been authorized, no draws on loan as of June 30, 2023.

\*\* Current draws on loan fall under loan forgiveness, therefore there is no outstanding balance at June 30, 2023

NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

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**NOTE 12 – LONG-TERM DEBT (cont.)**

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***PLEDGES OF FUTURE REVENUE***

The Authority has pledged assets to secure the repayment of the revenue bonds and State of Michigan revolving fund loans. The Water System bonds and loans are paid solely from the net revenues of the Water System and the Sewer System bonds and loans are paid solely from the net revenues of the Sewer System. Net revenues are defined in the Great Lakes Water Authority Water and Sewer Master Bond Ordinances as all revenues except those transferred to the Operation and Maintenance funds. These revenues are further defined to include the revenues from the Retail Customers who are serviced under the Water and Sewer Services Agreement with the City of Detroit which are reported in the financial statements of the City of Detroit Water and Sewerage Department. The pledged revenues calculation for the fiscal year ending June 30, 2023 includes revenues reported by the Great Lakes Water Authority and the City of Detroit Water and Sewerage Department as this revenue is pledged for payment of the bonds and loans of the Great Lakes Water Authority.

The general purpose of the Water System debt is to provide funding for various water treatment and transmission capital improvements, refund certain water revenue bonds, pay termination amounts for interest rate swap agreements and fund reserve requirements. The general purpose of the Sewer System bonds is to provide funding for various wastewater treatment and collection activities, capital improvements, refund certain sewage disposal revenue bonds, pay termination amounts for interest rate swap agreements and fund reserve requirements. The term of pledge commitment for the water bonds is through fiscal year 2053 and the sewage disposal bonds is through 2053.

The table below has the pledged revenue coverage as of June 30, 2023:

	Water Fund	Sewage Disposal Fund
Remaining principal and interest requirement	\$ 3,794,556,520	\$ 4,147,496,316
Principal and interest funding requirement for the year ending June 30, 2023 (calculated on a debt set aside basis consistent with rate covenant basis for rate determination)	\$ 192,800,887	\$ 242,858,798
Pledged revenue for the year ending June 30, 2023	\$ 262,255,513	\$ 325,241,682
Pledged revenue collected as a percentage of funding requirement	136%	134%

At the date of the issuance of the GLWA financial report, DWSD's audited financial report had not been released. The local system amounts used for the calculation above reflect DWSD's management representation of preliminary financial results for the year ended June 30, 2023.

NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

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**NOTE 12 – LONG-TERM DEBT (cont.)**

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**DEBT RATINGS**

In August 2022, S&P Global Ratings affirmed the Authority's senior lien water and sewage disposal systems rating of AA- and its second lien water system rating of A+. The outlook remained stable. Moody's Investors Service affirmed the Authority's water system and sewer disposal system senior lien ratings of A1, and its second lien ratings of A2. The outlook was moved to positive from stable for both. Fitch affirmed the Authority's ratings for its water system and sewer disposal system senior lien bonds at an A+, and its second lien bonds at an A. The outlook was moved to positive from stable for the sewage disposal system. The water system outlook remained stable.

In November 2018, S&P Global Ratings assigned an A+ rating to the Authority's junior lien water system SRF bonds and in March 2020 the junior lien sewage disposal system SRF bonds were upgraded to A+ from an A rating.

See Note 20 for rating agency upgrades received in October 2023.

**RAW WATER RIGHTS OBLIGATION**

An obligation has been recorded related to the license of the raw water rights that were part of the 30-year service contract with the City of Flint. This obligation represents the future credits to the City of Flint's water bills as the City of Flint satisfies its monthly bond payment obligations to KWA. See related footnote for the raw water rights intangible asset (Note 9).

The future credits to be issued are detailed below:

	Year Ended June 30	Principal	Interest	Total
<b>Water Fund</b>				
	2024	\$ 2,963,619	\$ 3,689,208	\$ 6,652,827
	2025	3,085,994	3,567,008	6,653,002
	2026	3,212,750	3,439,803	6,652,553
	2027	3,345,194	3,307,356	6,652,550
	2028	3,483,226	3,169,448	6,652,674
	2029-2033	19,688,493	13,571,493	33,259,986
	2034-2038	24,097,490	9,164,433	33,261,923
	2039-2043	28,187,150	3,811,606	31,998,756
	2044-2046	<u>4,451,858</u>	<u>158,742</u>	<u>4,610,600</u>
Total Water Fund		<u>\$ 92,515,774</u>	<u>\$ 43,879,097</u>	<u>\$ 136,394,871</u>

NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

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**NOTE 12 – LONG-TERM DEBT (cont.)**

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**BC NOTE OBLIGATION**

Under the terms of the lease agreements with the City, the Authority is required to pay a portion of the City's Financial Recovery Bonds, Series 2014-B and 2014-C allocated to the regional water and sewage disposal systems. The Financial Recovery Bonds, Series 2014-B are federally taxable. The Series 2014-B bonds have two components: B(1) which has a 4.0 percent per annum interest rate and B(2) which has a variable interest rate until the maturity date of April 1, 2044. The bonds were delivered to classes of creditors in satisfaction of: (1) Class 12 OPEB claims the bonds were distributed to the new Voluntary Employee Beneficiary Associations (VEBA) for the general retirees and police and fire retirees; (2) Class 9 Pension Obligation Certificate (POC) claims; and (3) other unsecured bankruptcy claims. GLWA has a contractual obligation to pay a portion of the bonds based on an agreed-upon allocation percentage.

The Financial Recovery Bonds, Series 2014-C were issued with interest at 5.0 percent per annum. The 2014-C bonds were issued as part of the Syncora Settlement and FGIC/POC Settlement in the bankruptcy plan. GLWA has a contractual obligation to pay a portion of the bonds based on an agreed-upon allocation percentage.

In 2018, the governing body of the City of Detroit authorized the use of general funds for the full redemption of the General Obligation Bonds, 2014 Series C, including the amount allocated to the Authority. The 2014 Series C debt was fully redeemed on April 13, 2018. In addition, on December 13, 2018, the City issued Financial Recovery Refunding Bonds to redeem a portion of the 2014 Series B. The Authority will repay the City of Detroit General Fund under the terms of the original debt payment schedules for the 2014 Series B & C General Obligation Bonds, with principal and interest due on June 30 each year.

The following is a schedule of the BC Note obligation for the Financial Recovery Bonds at June 30, 2023:

Bond Issue (GLWA share)	Original Issue Amount (GLWA share)	Range of Interest Rates	Maturity Date	Outstanding Ending Balance
<b>Water Fund</b>				
Series 2014-B	\$ 26,540,080	4.00% and variable	4/1/44	\$ 15,556,024
Series 2014-C	3,829,794	5.00%	6/30/27	782,315
Total Water Fund				16,338,339
<b>Sewage Disposal Fund</b>				
Series 2014-B	44,233,463	4.00% and variable	4/1/44	34,990,439
Series 2014-C	6,382,990	5.00%	6/30/27	1,759,673
Total Sewage Disposal Fund				36,750,112
Total Business-type Activities				53,088,451



NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

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**NOTE 12 – LONG-TERM DEBT (cont.)**

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**BC NOTE OBLIGATION (cont.)**

As of June 30, 2023, debt service requirements of the BC Note obligation for the Financial Recovery Bonds were as follows:

Year Ended June 30	Principal	Interest	Total
<b>Water Fund</b>			
2024	\$ 214,151	\$ 661,357	\$ 875,508
2025	1,002,661	650,649	1,653,310
2026	1,013,904	608,294	1,622,198
2027	885,004	565,378	1,450,382
2028	777,802	528,905	1,306,707
2029-2033	3,889,008	2,177,844	6,066,852
2034-2038	3,889,008	1,928,948	5,817,956
2039-2043	3,889,008	933,362	4,822,370
2044	777,793	46,668	824,461
Total Water Fund	16,338,339	8,101,405	24,439,744
<b>Sewage Disposal Fund</b>			
2024	481,694	1,487,601	1,969,295
2025	2,255,301	1,463,516	3,718,817
2026	2,280,590	1,368,246	3,648,836
2027	1,990,655	1,271,711	3,262,366
2028	1,749,522	1,189,675	2,939,197
2029-2033	8,747,608	4,898,660	13,646,268
2034-2038	8,747,608	4,338,813	13,086,421
2039-2043	8,747,608	2,099,426	10,847,034
2044	1,749,526	104,971	1,854,497
Total Sewage Disposal Fund	36,750,112	18,222,619	54,972,731
Total Business-type Activities	\$ 53,088,451	\$ 26,324,024	\$ 79,412,475

NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

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**NOTE 12 – LONG-TERM DEBT (cont.)**


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**INTEREST EXPENSE**

The following represents the amounts recorded as interest expense for the year ended June 30, 2023:

	Water Fund	Sewage Disposal Fund	Total Business-type Activities
Revenue bonds and loans	\$ 110,094,574	\$ 117,971,429	\$ 228,066,003
Regional System Lease	16,793,494	20,525,381	37,318,875
Raw water rights obligation	3,602,238	-	3,602,238
BC Note obligation	671,554	1,510,539	2,182,093
Lease-right to use asset	-	121,845	121,845
	<hr/>	<hr/>	<hr/>
Total Interest Expense	<u>\$ 131,161,860</u>	<u>\$ 140,129,194</u>	<u>\$ 271,291,054</u>

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**NOTE 13 – REGIONAL SYSTEMS LEASES PAYABLE AND RELATED PREPAID LEASE**


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On January 1, 2016, the Authority effectuated lease agreements with the City for the regional water and sewage disposal systems for a term of 40 years, to be extended automatically to coincide with the final maturity of any bonds issued to finance improvements to the regional or local sewage disposal systems. The agreements collectively provide for an annual lease payment of \$50 million. Currently, \$22,500,000 is allocated to the Water Fund and \$27,500,000 is allocated to the Sewage Disposal Fund. The lease for the water system provides service to the wholesale customers and the retail water customers of the City up to the point of connection to the local water system facilities of the City. The lease for the sewage disposal system provides service to the wholesale customers and the retail sewage disposal customers of the City up to the point of connection to the local sewage disposal system facilities of the City. In addition, both leases provide that certain other assets including cash and investments held by DWSD as of December 31, 2015 be transferred to GLWA, all revenues of the regional and local water and sewage disposal systems are assigned to GLWA, and that GLWA assumes all DWSD bonded debt and certain other liabilities. The long-term leases are recorded as the present value of all future debt payments.

The regional system leases were recorded under GASB 69 to record the acquisition of the operations of the City of Detroit water and sewage disposal systems. The liability for the leases is allocated in the computation of net position based upon the components of net position acquired. Under the definitions of the regional system leases all improvements, additions and replacements to the original facilities acquired are considered to be leased facilities.

## GREAT LAKES WATER AUTHORITY

DRAFT 12.4.23

NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023**NOTE 13 – REGIONAL SYSTEMS LEASES PAYABLE AND RELATED PREPAID LEASE (cont.)**

Amounts reported as a liability at year-end represent the net present value of all future lease payments. Changes in the Regional Systems leases payable for the year ended June 30, 2023 were as follows:

	Beginning Balance	Increase	Decrease	Ending Balance	Amount due Within One Year*
Water Fund	\$ 405,782,407	\$ -	\$ (5,686,745)	\$ 400,095,662	\$ 5,928,467
Sewage Disposal Fund	495,956,275	-	(6,950,466)	489,005,809	7,245,904
Total Business-type Activities	<u>\$ 901,738,682</u>	<u>\$ -</u>	<u>\$ (12,637,211)</u>	<u>\$ 889,101,471</u>	<u>\$ 13,174,371</u>

\* The current portion of the Regional Systems leases payable represents the 12 monthly payments required from July 1, 2023 through June 30, 2024. Future revenues are intended to cover these payments.

As of June 30, 2023, aggregate requirements of the Regional Systems leases were as follows:

	Year Ended June 30	Principal	Interest	Total
<b>Water Fund</b>				
2024	\$ 5,928,467	\$ 16,571,533	\$ 22,500,000	
2025	6,180,464	16,319,536	22,500,000	
2026	6,443,173	16,056,827	22,500,000	
2027	6,717,048	15,782,952	22,500,000	
2028	7,002,565	15,497,435	22,500,000	
2029-2033	39,738,870	72,761,130	112,500,000	
2034-2038	48,933,801	63,566,199	112,500,000	
2039-2043	60,256,289	52,243,711	112,500,000	
2044-2048	74,198,617	38,301,383	112,500,000	
2049-2053	91,366,974	21,133,026	112,500,000	
2054-2056	53,329,394	2,920,606	56,250,000	
Total Water Fund	<u>\$ 400,095,662</u>	<u>\$ 331,154,338</u>	<u>\$ 731,250,000</u>	

NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

**NOTE 13 – REGIONAL SYSTEMS LEASES PAYABLE AND RELATED PREPAID LEASE (cont.)**

	Year Ended June 30	Principal	Interest	Total
<b>Sewage Disposal Fund</b>				
2024	\$	7,245,904	\$ 20,254,096	\$ 27,500,000
2025		7,553,901	19,946,099	27,500,000
2026		7,874,989	19,625,011	27,500,000
2027		8,209,726	19,290,274	27,500,000
2028		8,558,691	18,941,309	27,500,000
2029-2033		48,569,730	88,930,270	137,500,000
2034-2038		59,807,979	77,692,021	137,500,000
2039-2043		73,646,575	63,853,425	137,500,000
2044-2048		90,687,199	46,812,801	137,500,000
2049-2053		111,670,746	25,829,254	137,500,000
2054-2056		65,180,369	3,569,631	68,750,000
Total Sewage Disposal Fund		489,005,809	404,744,191	893,750,000
Total Business-type Activities	\$	889,101,471	\$ 735,898,529	\$ 1,625,000,000

As part of the 2018 MOU, the MBO requirement for six months of lease payments made to DWSD on January 1, 2016 will be treated as a prepaid lease payment. The initial term of the regional system leases began on the effective date and ends on December 31, 2055. GLWA's last monthly payment shall be June 1, 2055 and GLWA's \$25 million lease pre-payment on January 1, 2016 shall be applied to the period of July 1, 2055 through December 31, 2055. Of the \$25 million recorded as a prepaid on the statement of net position, \$11,250,000 is recorded in the Water Fund and \$13,750,000 is in the Sewage Disposal Fund.

**NOTE 14 – OTHER LIABILITIES**

Changes in other liabilities for the year ended June 30, 2023 were as follows:

	Beginning Balance	Increase	Decrease	Ending Balance	Due Within One Year
<b>Water Fund</b>					
Compensated absences	\$ 4,797,762	\$ 4,225,984	\$ (3,920,228)	\$ 5,103,518	\$ 3,464,850
Workers' compensation	213,300	448,142	(443,069)	218,373	143,373
Claims and judgements	500,000	85,000	(450,000)	135,000	135,000
Cash held for the benefit of DWSD budget stabilization	2,000,000	-	-	2,000,000	-
Total Water Fund	\$ 7,511,062	\$ 4,759,126	\$ (4,813,297)	\$ 7,456,891	\$ 3,743,223

NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

**NOTE 14 – OTHER LIABILITIES (cont.)**

	Beginning Balance	Increase	Decrease	Ending Balance	Due Within One Year
<b>Sewage Disposal Fund</b>					
Lease payable – right to use asset	\$ 4,258,178	\$ -	\$ (366,784)	\$ 3,891,394	\$ 390,070
Compensated absences	816,975	1,630,683	(1,669,106)	778,552	778,552
Claim and judgements	9,850,000	4,010,000	(450,000)	13,410,000	7,660,000
DWSD local system capital contribution from EFSD	-	31,724,639	-	31,724,639	16,611,000
Cash held for the benefit of DWSD budget stabilization	5,500,000	-	-	5,500,000	-
<b>Total Sewage Disposal Fund</b>	<b>20,425,153</b>	<b>37,365,322</b>	<b>(2,485,890)</b>	<b>55,304,585</b>	<b>25,439,622</b>
<b>Total Business-type Activities</b>	<b>\$ 27,936,215</b>	<b>\$ 42,124,448</b>	<b>\$ (7,299,187)</b>	<b>\$ 62,761,476</b>	<b>\$ 29,182,845</b>

**LEASE PAYABLE – RIGHT TO USE ASSET**

The Authority entered into a lease agreement for a warehouse to store inventory for operational needs which began on April 1, 2021. The lease was recorded under GASB 87 using a discount rate of 3%. The lease term is for 5 years and 4 months with one five-year renewal option. The Authority has included the renewal period when recording the lease. An estimate of a 2.5% CPI at the time of renewal was used in calculating the payments for the renewal period.

The future lease payments are detailed below:

	Year Ended June 30	Principal	Interest	Total
<b>Sewage Disposal Fund</b>				
2024	\$	390,070	\$ 111,443	\$ 501,513
2025		414,719	99,404	514,123
2026		436,958	86,622	523,580
2027		462,398	73,181	535,579
2028		490,037	58,931	548,968
2029-2032		1,697,212	82,785	1,779,997
<b>Total Sewage Disposal Fund</b>		<b>\$ 3,891,394</b>	<b>\$ 512,366</b>	<b>\$ 4,403,760</b>

The right to use assets acquired through the lease are summarized below:

	Cost	Accumulated Amortization	Ending Book Value
<b>Sewage Disposal Fund</b>			
Warehouse	\$ 4,543,607	\$ (989,334)	\$ 3,554,273

NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

**NOTE 14 – OTHER LIABILITIES (cont.)**

***COMPENSATED ABSENCES***

The Authority has a paid time off (PTO) policy which has an annual accrual period ending September 30 each year. Employees are allowed to carry over a maximum bank of 80 hours to the next accrual period. Balances greater than 80 hours up to a maximum of 160 hours are converted to the retiree health saving program at 50% of the value of the PTO time. Hours in excess of 160 hours are forfeited if unused by September 30 of each accrual period. Due to Covid, an additional Reserve PTO account was created in September 2020 to allow team members to set aside an additional 80 hours of their PTO balance to be used through September 30, 2022. In August 2022, a change was made allowing employees an option to elect a payout of all or a partial amount of this Reserve PTO balance by September 30, 2022. Any amounts not paid out will remain in the Reserve PTO account until September 30, 2023 at which point any unused remaining hours will expire. The accrued compensated absences on June 30, 2023 for PTO accruals are \$3,166,198 for the Water Fund and \$778,552 for the Sewage Disposal Fund which is current.

The Authority also has an accrued compensated absence liability assumed on January 1, 2016 relating to the accumulated unpaid vacation and sick leave balances for those employees who retired from the City or resigned from the City and accepted employment with the Authority on January 1, 2016. The June 30, 2023 balance of the accrued compensated absences for the liability assumed on January 1, 2016 is approximately \$1,937,320 of which \$298,652 is current. This liability is recorded in the Water Fund as the disbursements for payment will be processed from the Water Fund with reimbursement from the Sewage Disposal Fund.

The accrued compensated absences include the employers' share of Social Security and Medicare taxes as well as the 401 (a) employer contribution.

***WORKERS' COMPENSATION***

Workers' compensation is discussed in Note 15 Risk Management/Self-Insurance Programs.

***CLAIMS AND JUDGEMENTS***

The Authority has accrued in its financial statements for known asserted claims in which future settlements may be necessary. See Note 15 for discussion of risk of loss and insurance coverages.

***DWSD LOCAL SYSTEM CAPITAL CONTRIBUTION FROM EFSD***

The Authority is holding a DWSD local system contribution received from the Evergreen-Farmington Sanitary Drain Drainage District for specific DWSD local system construction projects which were identified in an agreement. These funds will be disbursed to DWSD as the project expenses are incurred.

***CASH HELD FOR THE BENEFIT OF DWSD BUDGET STABILIZATION***

Under the terms of the Master Bond Ordinance (MBO), the Authority retains cash on hand for the benefit of DWSD for budget stabilization funds to be used if DWSD has cash shortfalls. The 2018 Memorandum of Understanding set the balance to be retained in the Budget Stabilization Funds at \$7,500,000 for the life of the Regional System Leases. The Water Fund has retained \$2,000,000 and the Sewage Disposal Fund has \$5,500,000.

NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

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**NOTE 15 – RISK MANAGEMENT/SELF-INSURANCE PROGRAMS**

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The Authority is exposed to various types of risk of loss including torts; theft of, damage to, or destruction of assets; errors or omissions; occupationally related illnesses or injuries to employees; natural disasters; and environmental occurrences. Also included are risk of loss associated with providing medical and prescription drug benefits to employees.

The Authority transfers risk via the purchase of a variety of insurance policies the most significant of which are shown in the table below (alphabetical by coverage):

Coverage	Coverage Limits	Maximum Retention Per Occurrence
Aviation	\$5,000,000	Physical damage 5% of insured value
Fiduciary	\$15,000,000	\$5,000
General Liability	\$10,000,000	\$1,000,000
Pollution Legal Liability	\$25,000,000	\$500,000
Property Damage	\$750,000,000	\$3,500,000 combined for all coverages
Public Officials and Employment Practices	\$25,000,000	\$500,000
Underground Storage Tanks	\$2,000,000	\$5,000
Workers' Compensation	Statutory/\$2,000,000	\$1,250,000

The Authority assumes all risk for motor vehicle physical damage.

Settled claims relating to commercial insurance have not exceeded the amount of insurance coverage since inception of the Authority.

A liability for claims is reported when it is probable that a loss has occurred, and the amount of the loss can be reasonably estimated. Liabilities include an amount for claims that have been incurred but not reported. The Authority estimates the liability for medical and worker's compensation claims that have been incurred through the end of the fiscal year, including claims that have been reported as well as those that have not yet been reported, which includes estimates of both future payments of losses and related claim adjustments expense. The liability is based on individual claims and management's evaluation of experience with respect to the probable number and nature of claims.

NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

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**NOTE 15 – RISK MANAGEMENT/SELF-INSURANCE PROGRAMS (cont.)**

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***MEDICAL AND PRESCRIPTION DRUG INSURANCE***

The Authority provides medical and prescription drug benefits to a significant number of employees through a self-insured health plan that is administered by third party administrators. The Authority has stop loss insurance for its self-insured medical and prescription drug plans with terms of \$300,000 per contract to reduce risk exposure. The self-insured program is administered by a third-party administrator who provides claims review and processing services as well as illustrated premium rates, which are anticipated, over time, to approximate the actual cost of benefits. Claim payments are reported net of rebates received for negotiated pricing for pharmacy benefits and stop loss reimbursements. The unpaid claims estimate is accrued within the Water Fund's accrued salaries, wages and benefits payable account on the Statement of Net Position. Although the liability is recorded in the Water Fund, the Sewage Disposal Fund's share of these costs are allocated through the Centralized and Administrative Services allocation.

	2023	2022
Unpaid claims, beginning of year	\$ 765,795	\$ 917,531
Incurred claims (including change in IBNR provisions)	9,661,534	10,510,451
Claims payments	<u>(9,878,417)</u>	<u>(10,662,187)</u>
Unpaid Claims, End of Year	<u>\$ 548,912</u>	<u>\$ 765,795</u>

***WORKERS' COMPENSATION***

The Authority maintains a self-insurance program for workers' compensation coverage up to statutory limits. The program is administered by a third-party who provides claim review and medical bill review services. Claim liabilities are calculated considering the effects of recent claim settlement trends including frequency and amount of payouts and other economic and social factors. The claim liabilities also include estimated costs for claim administration fees and outside legal and medical assistance costs. The liabilities for workers' compensation current year claims is based on estimates and payments are based on actuals. The unpaid claims estimate is accrued within the Water Fund's accrued workers' compensation account (See Note 14). Although the liability is recorded in the Water Fund, the Sewage Disposal Fund's share of these costs are allocated through the Centralized and Administrative Services allocation.

Changes in the balances of claims liabilities during the past two years are as follows:

	2023	2022
Unpaid claims, beginning of year	\$ 213,300	\$ 330,817
Incurred claims (including change in IBNR provisions)	448,142	717,963
Claims payments	<u>(443,069)</u>	<u>(835,480)</u>
Unpaid Claims, End of Year	<u>\$ 218,373</u>	<u>\$ 213,300</u>



NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

**NOTE 16 – DEFINED CONTRIBUTION PENSION PLANS**

***DEFINED CONTRIBUTION PLANS***

The Great Lakes Water Authority Defined Contribution Retirement Plan is a 401(a) governmental money purchase plan administered by ICMA Retirement Corporation (the “Administrator”) to provide benefits at retirement to all full-time employees of the Authority. The Authority contributes 6.0% of an employee’s base pay to the plan. The Authority will make an additional contribution to the 401(a) plan to match employee contributions under the Great Lakes Water Authority 457 Plan up to 3% of compensation. Employees are 100% vested after three years of service (cliff vesting). Employees who transferred to the Authority on or around January 1, 2016 from DWSD retain their years of service for vesting purposes. The Authority recognized expense of \$5,999,361, which is net of forfeitures of \$113,314, for the year ended June 30, 2023. The Authority has accrued approximately \$83,000 of expense on the accrued payroll at June 30, 2023. At June 30, 2023, there were 1,231 plan members, of which 1,007 are active.

The Great Lakes Water Authority Defined Contribution Plan Make-Up Benefit is a 401(a) governmental money purchase plan administered by ICMA Retirement Corporation (the “Administrator”) to provide benefits at retirement to all employees who terminated employment with DWSD on or around January 1, 2016 and were not vested in the City of Detroit General Retirement System (GRS). Eligible employees were required to rollover to the Authority’s Section 457 Deferred Compensation Plan their refunded employee mandatory contribution from GRS. The amount of the make-up benefit was determined by an actuary based on the present value of the lost GRS benefit. It was accrued in fiscal year 2018 and funded during fiscal year 2019. No additional contributions are required for this plan. Employees are 100% vested after one year of service. At June 30, 2023 there are 24 participants in the plan.

The Authority has a Section 457 Deferred Compensation Plan which employees can make pre-tax or post-tax (Roth) contributions which are immediately 100% vested. At June 30, 2023 there were 1,194 plan members, of which 1,083 are active.

The Authority has a Roth IRA Plan which allows employees to make post-tax contributions which are immediately 100% vested.

***RETIREMENT HEALTH SAVINGS PLAN***

The Authority also provides a Retirement Health Savings Program for full-time employees. Employees are required to contribute \$10 per pay period and the Authority contributes \$80 per pay period. Employees are 100% vested after three years of service (cliff vesting). Employees who transferred to the Authority on or around January 1, 2016 from DWSD retain their years of service for vesting purposes. Members can access their account for reimbursement of qualified medical expenses and payment of insurance premiums for their dependents when they separate from GLWA and reach age 60. The Authority recognized an expense \$2,127,738, which is net of forfeitures of \$52,776, for the year ended June 30, 2023. The Authority has accrued approximately \$28,000 of expense on the accrued payroll at June 30, 2023. Employee contributions were \$249,000 for the year ended June 30, 2023. At June 30, 2023, there were 1,799 plan members, of which 1,098 are active.

NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

**NOTE 17 – NET PENSION LIABILITY (SPECIAL FUNDING SITUATION)**

As part of the City of Detroit bankruptcy plan of adjustment (POA) and the Regional System Leases (Section 4.3), the City, the City of Detroit General Employees' Retirement system (GRS or the System) and the Authority entered into an agreement on December 1, 2015 that set forth the terms for contributions and reporting of the DWSD share of the GRS pension pool. GRS provides the information necessary for the Authority and DWSD to report the proportionate share separately in their respective statements. On January 24, 2017, DWSD and the Authority provided a supplement to the agreement whereby GRS is directed to allocate investments and pension liabilities of the DWSD division on the basis of 70.3% to the Authority and 29.7% to DWSD effective January 1, 2016. This agreement constitutes a special funding situation pursuant to the provisions of GASB Statement No. 68, *Accounting and Financial Reporting for Pensions*. As such, while no Authority employees earn service credit in the legacy or hybrid plans, GLWA is legally responsible for making substantial contributions to a legacy pension plan of another entity and, accordingly, must record a net pension liability for its proportion and make the following disclosures regarding the plan as required by the standard. Information is available in a separate audit report for the "General Retirement System of the City of Detroit Financial Report with Supplemental Information" as well as "The General Retirement System of the City of Detroit GASB Statement Nos. 67 and 68 Accounting and Financial Reporting for Pension Plans of Component II" as of June 30, 2022 which are available by contacting the Authority's management.

*Plan Administration.* The Authority contributes to (and DWSD participates in) the System. The System is a single employer plan composed of a defined benefit plan component and a defined contribution annuity plan component. The plan provides retirement, disability, and survivor benefits to plan members and beneficiaries. The plan is administered by its own board of trustees. Plan members include active employees, retirees and beneficiaries from various departments within the City. Benefit terms have been established by contractual agreements between the City and the employees' collective bargaining units; amendments are subject to the same process.

The System issues publicly available financial reports that include financial statements and the required supplementary information. The reports can be obtained from City of Detroit Retirement Systems, One Detroit Center, 500 Woodward Avenue, Suite 3000, Detroit, MI 48226 or obtained from the Systems' website ([www.rscd.org](http://www.rscd.org)). Detailed information about the pension plan's fiduciary net position is available in the separately issued financial reports.

*Benefits Provided.* Plan members may retire at age 55 or 60 with 5, 8, 10 or 25 years of credited service depending on which group the employee is in. Members are vested after completing 5, 8 or 10 years of credited service. Retirement options that provide for survivor benefits are available to members. The Plan also provides death and disability benefits. If a member leaves employment or dies before vesting, accumulated member contributions plus interest are refunded to the member or designated beneficiary.

Component II is the legacy plan, the original defined benefit plan, which includes a defined benefit component and a defined contribution component. Component II generally applies to benefits accrued by members prior to July 1, 2014. The plan provides retirement, disability, and survivor benefits to plan members and beneficiaries. Except as specifically provided in the combined plan, benefits provided under Component II are frozen effective June 30, 2014. Component II also includes the income stabilization fund. The fund, a part of Component II and established as a provision of the POA, was established for the sole purpose of paying the income stabilization benefits to eligible pensioners. Complete details regarding the Component II benefits and changes in those benefits by virtue of the POA are presented in the System financial statements.

*Employer Contributions.* Employer contributions, including the Authority's nonemployer contribution, for the respective components are as follows:

NOTE 17 – NET PENSION LIABILITY (SPECIAL FUNDING SITUATION) (cont.)

During the Plan’s fiscal year 2022, employer contributions were not actuarially determined, but are determined by the provisions of the POA. Included within contributions for fiscal year 2022 are contributions from the Foundation for Detroit’s Future in the amount of \$375,000 and approximately \$47.9 million of contributions from the City, City-related entities, and GLWA.

The POA obligates DWSD to pay \$2,500,000 per year towards administrative costs and annual plan contributions of \$42,900,000 per year in total for both water and sewer employees, until 2023. Pursuant to the Regional System leases, the Authority is obligated to pay its allocable share of such liability. The portion allocated to the Authority is \$31,916,200 for fiscal year 2023. This includes a contribution to the GRS pension plan of \$10,810,800 for the Water Fund and \$19,347,900 for the Sewage Disposal Fund for a total pension contribution of \$30,158,700. The contribution was made subsequent to the measurement date and has been recorded as a deferred outflow. It also includes an administrative fee of \$1,757,500, with \$630,000 paid by the Water Fund and \$1,127,500 paid by the Sewage Disposal Fund. Part of the administrative fee is considered a prepayment based on actual administrative expenses incurred by the plan as reported in the other supplemental information of the audited financial report of the GRS Plan.

Subsequent to 2023, DWSD and the Authority will be responsible for paying their allocable share of any additional amounts that are actuarially determined to be payable. An estimate of the 2024 contribution was included in the GRS annual actuarial valuation of Component II dated June 30, 2022. The total share for the DWSD is estimated to be \$0.7 million. GLWA’s share of the 2024 estimated contribution will be \$0.5 million with approximately \$0.18 million allocated to the Water Fund and approximately \$0.32 million allocated to the Sewage Disposal Fund.

*DWSD Employee Contributions.* Contribution requirements of plan members are established and may be amended by the GRS Board of Trustees in accordance with the City Charter, union contracts, and plan provisions. For the year ended June 30, 2022, there were no employee contributions into Component II, as the plan was frozen as of June 30, 2014; contributions into Component I began thereafter.

*Actuarial Assumptions.* The total pension liability was actuarial determined as of June 30, 2021, which used updated procedures to roll forward the estimated liability to June 30, 2022. The actuarial valuation used the following actuarial assumptions applied to all periods included in the measurement.

Inflation	Not applicable
Salary increases	No inflation assumption or salary increases due to plan freeze as of June 30, 2014
Investment rate of return	6.75%, net of investment expense and including inflation

Note that the long-term assumed rate of return used for the purpose of the GASB Statement No. 67 valuations was determined in accordance with generally accepted accounting principles. This rate will change annually based on capital market expectations in consideration of the System’s most recently approved asset mix. This should not be confused with the provisions in the Plan of Adjustment, which established a 6.75 percent assumed rate of return that does not change annually as it is set by the POA for the purpose of the various provisions within the plan; the Plan of Adjustment did not attempt to dictate the long-term rate of return to be used for accounting purposes.

The mortality table assumption was based on the PubG-2010(B) Below-Median General Retiree Table. The tables are projected to be fully generational, based on the two-dimensional, sex-distinct mortality scale MP-2021.

NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

**NOTE 17 – NET PENSION LIABILITY (SPECIAL FUNDING SITUATION) (cont.)**

The actuarial assumptions, other than the investment rate of return, used in the June 30, 2021 valuation to calculate the total pension liability as of June 30, 2022 were based on the results of an actuarial experience study for the period from July 1, 2015 through June 30, 2020. The assumptions were first used in the June 30, 2021 actuarial valuation and assumption changes included mortality tables (change from the RP-2014 Blue Collar Annuitant Table), withdrawal rates, and disability rates.

*Investment Rate of Return.* The long-term expected rate of return on pension plan investments was determined using a building-block method in which best-estimates of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. Best estimates of the long-term expected real rate of return as of June 30, 2022 for each major asset class and the target allocations are summarized in the following table:

Asset Class	Target Allocation	Long-Term Expected Real Rate of Return
Global equity	46.0%	5.02%
Global fixed income	33.0%	4.02%
Real estate	13.0%	3.73%
Diversifying strategies	8.0%	3.95%
	<u>100.0%</u>	

*Single Discount Rate.* A Single Discount Rate of 6.75%, net of investment expenses, was used to measure the total pension liability as of June 30, 2022. This Single Discount Rate was based on the expected rate of return on pension plan investments of 6.75% as directed by the System and approved by the System's Auditor. The projection of cash flows used to determine this Single Discount Rate assumed that plan member contributions ceased as of June 30, 2014, and that employer contributions will be made at rates equal to those set by the final Plan of Adjustment through June 30, 2023 and contributions consistent with PERSIA and the intention to fully fund the System by 2053 as determined in the bankruptcy (POA). Based on these assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

*Net Pension Liability.* As permitted by GASB Statement No. 68, the net pension liability was measured as of June 30, 2022, and the total pension liability used to calculate the net pension liability was determined by an actuarial valuation as of that date.

The information below represents the Authority's share of pension liability activity. DWSD separately reports its pro rata share of activity in its separate financial statements.

*Changes in the Net Pension Liability.* The components of the change in the Authority's share of the net pension liability are summarized as follows:

	Water	Sewage Disposal	Total
Total pension liability	\$ 168,530,590	\$ 301,616,255	\$ 470,146,845
Plan fiduciary net position	<u>(145,884,785)</u>	<u>(261,087,453)</u>	<u>(406,972,238)</u>
Authority's Net Pension Liability	<u>\$ 22,645,805</u>	<u>\$ 40,528,802</u>	<u>\$ 63,174,607</u>

NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

**NOTE 17 – NET PENSION LIABILITY (SPECIAL FUNDING SITUATION) (cont.)**

	Total Pension Liability (a)	Plan Fiduciary Net Position (b)	Net Pension Liability (a) – (b)
<b>Water Fund</b>			
Balances at June 30, 2022	\$ 183,593,989	\$ 160,214,509	\$ 23,379,480
Changes for the year:			
Interest	11,408,491	-	11,408,491
Difference between expected and actual experience	(43,813)	-	(43,813)
Changes in assumptions	(10,270,600)	-	(10,270,600)
Employer contributions	-	10,810,800	(10,810,800)
Net investment income	-	(9,347,846)	9,347,846
Benefit payments, including refunds of employee contributions	(16,157,477)	(16,157,477)	-
Other changes	-	364,799	(364,799)
Net changes	(15,063,399)	(14,329,724)	(733,675)
Balances at June 30, 2023	\$ 168,530,590	\$ 145,884,785	\$ 22,645,805
	Total Pension Liability (a)	Plan Fiduciary Net Position (b)	Net Pension Liability (a) – (b)
<b>Sewage Disposal Fund</b>			
Balances at June 30, 2022	\$ 328,574,957	\$ 286,733,110	\$ 41,841,847
Changes for the year:			
Interest	20,417,578	-	20,417,578
Difference between expected and actual experience	(78,411)	-	(78,411)
Changes in assumptions	(18,381,115)	-	(18,381,115)
Employer contributions	-	19,347,900	(19,347,900)
Net investment income	-	(16,729,676)	16,729,676
Benefit payments, including refunds of employee contributions	(28,916,754)	(28,916,754)	-
Other changes	-	652,873	(652,873)
Net changes	(26,958,702)	(25,645,657)	(1,313,045)
Balances at June 30, 2023	\$ 301,616,255	\$ 261,087,453	\$ 40,528,802

*Sensitivity of the Net Pension Liability to Changes in the Discount Rate.* The following presents the net pension liability of the Authority, calculated using the discount rate of 6.75%, as well as what the Authority's net pension liability would be if it were calculated using a discount rate that is 1% lower (5.75%) or 1% higher (7.75%) than the current rate:

	1% Decrease (5.75%)	Current Discount Rate (6.75%)	1% Increase (7.75%)
Water Fund	\$ 27,724,756	\$ 22,645,805	\$ 18,269,024
Sewage Disposal Fund	49,618,513	40,528,802	32,695,753
Authority's Net Pension Liability	\$ 77,343,269	\$ 63,174,607	\$ 50,964,777

NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

**NOTE 17 – NET PENSION LIABILITY (SPECIAL FUNDING SITUATION) (cont.)**

*Pension Plan Fiduciary Net Position.* Detailed information about the pension plan's fiduciary net position is available in the separately issued plan financial statements.

*Pension Expense and Deferred Outflows and Inflows of Resources Related to Pensions.* For the year ended June 30, 2023, the Authority recognized pension income of \$7,443,572 and \$13,321,630 for the Water and Sewage Disposal Funds, respectively. At June 30, 2023, the Authority reported deferred outflows of resources related to pensions from the following sources:

	Deferred Outflows of Resources	Deferred Inflows of Resources	Net Deferred Outflows (Inflows) of Resources
<b>Water Fund</b>			
Net difference between projected and actual earnings on pension plan investments	\$ 6,296,508	\$ -	\$ 6,296,508
Employer contributions to the plan subsequent to the measurement date	10,810,800	-	10,810,800
Total Water Fund	17,107,308	-	17,107,308
<b>Sewage Disposal Fund</b>			
Net difference between projected and actual earnings on pension plan investments	11,268,752	-	11,268,752
Employer contributions to the plan subsequent to the measurement date	19,347,900	-	19,347,900
Total Sewage Disposal Fund	30,616,652	-	30,616,652
Total Business-type Activities	\$ 47,723,960	\$ -	\$ 47,723,960

The amount reported as deferred outflows of resources resulting from contributions subsequent to the measurement date will be recognized as a reduction in the net pension liability for the year ending June 30, 2023. Other amounts reported as deferred outflows of resources and deferred inflows of resources related to pension will be recognized in pension expense as follows:

Year Ended June 30	Water	Sewage Disposal	Total
2024	\$ 2,440,975	\$ 4,368,570	\$ 6,809,545
2025	1,087,832	1,946,874	3,034,706
2026	(1,152,274)	(2,062,204)	(3,214,478)
2027	3,919,975	7,015,512	10,935,487
Total	\$ 6,296,508	\$ 11,268,752	\$ 17,565,260

*Payable to the Pension Plan.* At June 30, 2023, the Authority did not have any outstanding contributions payable to the pension plan for the year then ended.



NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

**NOTE 18 – COMMITMENTS AND CONTINGENCIES**

***CAPITAL IMPROVEMENT PROGRAM***

The Authority is engaged in a variety of projects that are part of its five-year capital improvement program (the Program). The total cost of this Program for the Water Fund is anticipated to be approximately \$986.6 million with an 100% spend rate assumption through fiscal year 2028. The total cost for the Sewage Disposal Fund is anticipated to be approximately \$798.2 million with a 100% spend rate assumption through fiscal year 2028. The Program is being financed from revenue bond and state revolving fund proceeds in addition to the Improvement and Extension Funds.

The total amount of construction contract commitments outstanding at June 30, 2023 was approximately \$213 million for the Water Fund and \$272 million for the Sewage Disposal Fund.

The current wastewater disposal service contract with the Oakland-Macomb Interceptor Drain Drainage District (OMIDD) provides for OMIDD to maintain, repair, and improve Interceptor PCI-5, the Northeast Sewer Pump Station and the North Interceptor East Arm, which are related to the capital assets in the Regional Sewage Disposal System Lease (See Note 13). The amount of capital improvements in progress related to the contract are estimated by OMIDD to be worth \$64.5 million for the Sewage Disposal Fund at June 30, 2023. At a future date, in accordance with the contract, OMIDD will offer and transfer the assets, following GLWA's acceptance, as the assets are placed in service.

***SUBSCRIPTION-BASED INFORMATION TECHNOLOGY ARRANGEMENTS (SBITA)***

The Authority has two SBITA's that are in the implementation phase. A summary of the commitments for each SBITA are detailed below:

NEXGEN is an enterprise asset management system subscription service. The contract is a \$1.7 million purchase for a duration of five years with one two-year renewal. The contract ends November 30, 2026 with a two-year renewal which would end November 30, 2028. The anticipated in-service date is expected during fiscal year 2025. There is a separate implementation contract for three years ending early in fiscal year 2025 for a not to exceed cost of \$4.6 million. The Authority's remaining commitment under this contract is \$3.4 million. Implementation costs incurred up to the date placed in service will be capitalized.

Workday is an enterprise resource planning system subscription service which is an integrated financial, HR, payroll and analytic system service. The contract is for eight years ending in fiscal year 2030. The cost for the SBITA for the eight-year period is \$5.3 million. The remaining commitment under this contract is \$4.3 million. The anticipated in-service date for HR and payroll is January 2024, and the financial system in July 2024. There are two separate implementation contracts that terminate in 2029 for a not to exceed cost of \$7.7 million. The Authority's remaining commitment under these contracts is \$4.5 million. Implementation costs incurred up to the date placed in service will be capitalized.

***2021 RAIN EVENTS***

During the Summer of 2021, GLWA's service area experienced several intense rain events. These rain events resulted in sewer backups, causing property damage. GLWA received over 24,000 property damage claims from these intense rain events. Most of the claims relate to rain events occurring on June 25-26, 2021 and July 16, 2021.

NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

**NOTE 18 – COMMITMENTS AND CONTINGENCIES (cont.)**

The Board hired an independent investigative team to review the rain events. In June 2022, the Independent Investigative Team reviewing the rain events of June and July 2021 presented its final report to the Great Lakes Water Authority (GLWA) Board of Directors. The report concluded that heavy and historic rainfalls exceeded the design capacity of the wastewater system, making surface flooding and basement backups inevitable. For the June 25/26 rain event, the report also stated that even if every piece of piping and equipment in the regional system worked in an ideal manner, basement backups and surface flooding would still have occurred in GLWA's system, or any other collection system designed to today's standard. This standard reflects a collection system designed to handle 1.7 inches of rain in one hour (with no rain before/no rain after) or 3.31 inches in 24 hours. On June 25, more than six inches was experienced in only half that time, which is double the maximum design standard for 24 hours.

In July 2022, GLWA announced that it is denying all claims submitted to the Authority related to the historic rain events that took place in the summer of 2021. Official notification was mailed to the claimants. This decision was based on the findings of the independent investigation and that under Michigan's Governmental Liability for Negligence Act, a public entity such as GLWA can only be liable for a sewage disposal system event (a basement backup) if a defect in its sewage disposal system was the substantial proximate cause (50 percent or more of the cause) of the event and property damage or physical injury.

While no claim under an individual lawsuit would have a material impact on GLWA's operations or revenues, in the aggregate, the claimed amounts under all such lawsuits could be material. As it relates to the June 25-26, 2021 rain event, the trial court dismissed many of the class action lawsuits against GLWA, finding no defect in the Sewer System. The plaintiffs have appealed the dismissal decision. As it relates to the July 16, 2021 rain event, GLWA filed a dispositive motion, which is pending before the Court.

The Authority received insurance payments of \$1 million during fiscal year 2022 and \$2.6 million in the current fiscal year for a total of \$3.6 million. These payment were net of the \$1 million deductible on the insurance policy. The Federal Emergency Management Agency (FEMA) has committed to reimburse the Authority for the \$1 million deductible, net of the GLWA 10% cost share. During the current fiscal year the Authority received \$0.4 million of FEMA funds toward the deductible cost. The Authority expects future additional costs for repairs and maintenance and debris removal from the interceptors as a result of the heavy rains. The amount is not able to be estimated at this time. Claims will be submitted to the insurance company and FEMA as these costs are incurred.

**CONTINGENCIES**

The Authority is subject to various government environmental laws and regulations. GASB Statement No. 49, *Accounting and Financial Reporting for Pollution Remediation Obligations*, established accounting and financial reporting standards for pollution (including contamination) remediation obligations, which are obligations to address the current or potential detrimental effects of existing pollution by participating in pollution remedial activities such as site assessments and cleanups. The standard excludes pollution prevention or control obligations with respect to current operations, and future pollution remediation activities that are required upon retirement of an asset, such as landfill closure and post-closure care. The Authority determined that there were no estimated pollution remediation obligations to be recorded at June 30, 2023.



NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

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**NOTE 18 – COMMITMENTS AND CONTINGENCIES (cont.)**

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GASB Statement No. 83, *Certain Asset Retirement Obligations*, established accounting and financial reporting standards for legally enforceable liabilities related to the retirement of tangible capital asset(s) where the tangible capital asset is permanently removed from service. The retirement of a tangible capital asset can occur via sale, abandonment, recycling or disposal in some other manner and excludes the temporary idling of a tangible capital asset. An asset retirement obligation does not apply to obligations resulting from the disposal, or plan to dispose, of a tangible capital asset; obligation(s) associated with using a tangible capital asset for a different purpose; obligation(s) for pollution remediation; obligation(s) from regular maintenance or the cost to replace a component. The Authority determined there were no legally enforceable asset retirement obligations to be recorded at June 30, 2023.

The Sewage Disposal Fund's operations are subject to regulation pursuant to the Federal Water Pollution Control Act, as amended by the Clean Water Act of 1977 and the Water Quality Act of 1987 (collectively, the Clean Water Act). Included in the regulatory framework established by the Clean Water Act is the National Pollutant Discharge Elimination System (NPDES) permit program, which requires operation of wastewater system facilities according to discharge limitations and other requirements as set forth in permits issued to each facility. The Environmental Protection Agency (EPA) has authorized the Michigan Department of Environmental Quality (MDEQ) to implement and enforce the federal NPDES permit program. The Sewage Disposal Fund operates pursuant to the NPDES Permit. The Authority's current NPDES permit was issued July 1, 2019 and expired on October 1, 2022. A new permit application was submitted in March 2022. The Authority will continue to operate under the old permit until the new permit is issued.

The Authority is a defendant in numerous alleged claims, lawsuits, billing disputes, and other stated and pending demands. The Authority's Legal Department has estimated a reserve of \$135,000 for the Water Fund and \$13,410,000 for the Sewage Disposal Fund, which are included in the accompanying financial statements, for the potential outcome of such claims or the amount of potential damages in the event of an unfavorable outcome for each of the above contingencies. The Authority's management believes that any differences in reserved amounts and final settlement, after consideration of claims covered by insurance, resulting from such litigation will not materially impact the Authority's financial position or results of operations.

The Authority holds various commercial insurance policies to cover other potential loss exposures.

NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

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**NOTE 19 – NET INVESTMENT IN CAPITAL ASSETS**


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The composition of net investment in capital assets as of June 30, 2023 was as follows:

	Water Fund	Sewage Disposal Fund	Total Business-type Activities
Capital Assets			
Nondepreciable/nonamortizable	\$ 670,557,112	\$ 418,201,364	\$ 1,088,758,476
Depreciated/amortized – net	1,330,639,811	1,989,243,893	3,319,883,704
Total Capital Assets	2,001,196,923	2,407,445,257	4,408,642,180
Less: Related Debt			
Total bonds and loans, net (Note 12)	2,654,538,306	2,986,680,987	5,641,219,293
Less outstanding bonds used for:			
SWAP termination agreements	(167,261,744)	(213,516,698)	(380,778,442)
Unspent bond proceeds	(108,161,275)	(143,130,085)	(251,291,360)
To fund reserves	(3,030,378)	-	(3,030,378)
Obligation receivable-local system share of debt (Note 8)	(565,429,087)	(370,289,836)	(935,718,923)
Deferred charge on refunding	(39,316,288)	(94,632,191)	(133,948,479)
Deferred gain on refunding	44,182,654	37,087,199	81,269,853
Capital portion of regional system lease	291,549,708	339,516,733	631,066,441
Lease obligation-raw water rights (Note 12)	92,515,774	-	92,515,774
Lease obligation-right to use asset (Note 14)	-	3,891,394	3,891,394
Total Related Debt	2,199,587,670	2,545,607,503	4,745,195,173
Net Investment in Capital Assets	\$ (198,390,747)	\$ (138,162,246)	\$ (336,552,993)

The capital portion of the regional system lease payable is the percentage of the lease liability that has been determined to be allocated to the net investment in capital assets acquired. The lease is described in Note 13.

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**NOTE 20 – SUBSEQUENT EVENTS**


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**JUNIOR LIEN REVENUE BONDS**

On July 17, 2023, Water Supply System Revenue Bonds, Series 2023 SRF-1, were issued for \$48.2 million to fund regional water system improvements. The series ordinance authorizing issuance of these revenue bonds (SRF Junior Lien) in an aggregate amount not to exceed \$71 million (Ordinance No. 2023-02) was approved by the GLWA Board in May 2023.

The above SRF loan bears a fixed interest rate of 1.875% for a term of twenty (20) years.

NOTES TO FINANCIAL STATEMENTS  
As of and for the Year Ended June 30, 2023

**NOTE 20 – SUBSEQUENT EVENTS (cont.)**

***HIGHLAND PARK AGREEMENT***

On October 25, 2023, GLWA's Board of Directors approved a Term Sheet between the State of Michigan (SOM), City of Highland Park, and GLWA which provides an outline for the resolution of their mutual differences. Highland Park's unpaid water and sewer disposal charges date back many years and have been recognized as a reduction to revenue in the estimate of uncollectible accounts over the years. The SOM will pay for service work that the Department of Environment, Great Lakes and Energy (EGLE) determines necessary to decrease the water loss the HP water distribution system is experiencing. The SOM will also pay and EGLE will oversee the installation of meters for both the water and sewer systems at the connection points to the GLWA system. In order to provide some relief to the communities the Authority serves, who have been burdened by these uncollectible amounts from HP, the SOM will provide \$5 million for water infrastructure improvements and \$25 million for sewer infrastructure improvements to the regional system.

***RATING AGENCY UPGRADES***

In October 2023, S&P Global Ratings affirmed the Authority's senior lien water and sewage disposal systems rating of AA- and its second lien water system rating of A+. The outlook remained stable. Moody's Investors Service upgraded the Authority's water system and sewage disposal system senior lien ratings to Aa3 from A1, and its second lien ratings to A1 from A2. The outlook was moved to stable from positive for both. Fitch Ratings affirmed the Authority's ratings for its water system for senior lien bonds of A+ and second lien bonds of A. The water system outlook remained stable. Fitch Ratings upgraded the sewage disposal system senior lien bonds to AA- from A+, and its second lien bonds to A+ from A. The outlook remained positive for the sewage disposal system.

***WATER BOND REFUNDING AND NEW MONEY, SEWER BOND REFUNDING AND SEWER NEW MONEY BOND TRANSACTION***

On December 5, 2023, the Authority issued \$215,745,000 of Water Supply System Revenue and Revenue Refunding Bonds (\$148,535,000 in new money and \$67,210,000 in refunding bonds) and \$297,060,000 of Sewage Disposal System Revenue and Revenue Refunding Bonds (\$96,860,000 in new money and \$200,200,000 in refunding bonds). The net present value savings from the refunding transaction for the water fund was \$7.9 million and the sewage disposal fund was \$20.9 million.

**REQUIRED SUPPLEMENTARY INFORMATION**

## GREAT LAKES WATER AUTHORITY

## REQUIRED SUPPLEMENTARY INFORMATION

Nonemployer Contributing Entity Share of City of Detroit General Employees' Retirement System - Component II  
Schedule of Changes in Net Pension Liability and Related Ratios - Business-Type Activities

	Fiscal Year							
	2023	2022	2021	2020	2019	2018	2017	2016
Measurement Date	2022*	2021*	2020*	2019*	2018*	2017*	2016*	2015**
<b>Share of Total Pension Liability</b>								
Interest	\$ 31,826,069	\$ 34,312,239	\$ 36,284,099	\$ 36,700,388	\$ 36,577,126	\$ 37,829,066	\$ 40,381,626	\$ 51,393,411
Differences between expected and actual experience	(122,224)	(9,204,321)	(10,265,139)	3,462,000	(320,610)	2,369,183	(5,063,923)	(427,134)
Changes in assumptions	(28,651,715)	23,270,230	13,103,099	-	(21,345,359)	15,153,104	17,627,395	(19,789,958)
Benefit changes	-	-	-	-	-	-	-	(152,368,108)
Benefit payments, including refunds of employee contributions	(45,074,231)	(44,436,536)	(45,098,368)	(46,507,916)	(47,396,240)	(51,081,380)	(69,639,576)	(54,293,644)
Net change	(42,022,101)	3,941,612	(5,976,309)	(6,345,528)	(32,485,083)	4,269,973	(16,694,478)	(175,485,433)
Share of total pension liability, beginning of year	512,168,946	508,227,334	514,203,643	520,549,171	553,034,254	548,764,281	565,458,759	740,944,192
Share of Total Pension Liability, End of Year	470,146,845	512,168,946	508,227,334	514,203,643	520,549,171	553,034,254	548,764,281	565,458,759
<b>Share of Plan Fiduciary Net Position</b>								
Employer contributions	30,158,700	30,158,700	30,158,700	30,158,700	30,158,700	30,158,700	30,158,700	30,150,889
Employee contributions	-	-	-	-	-	-	-	130,951
Net investment income (loss)	(26,077,522)	95,985,249	(3,614,092)	9,194,433	30,347,172	38,812,244	(1,311,974)	17,280,285
Benefit payments, including refunds of employee contributions	(45,074,231)	(44,436,536)	(45,098,368)	(46,507,916)	(47,396,240)	(51,081,380)	(69,639,576)	(54,293,644)
Administrative expense	-	-	-	-	-	-	-	(21,294)
Other changes	1,017,672	1,318,070	1,182,142	(119,469)	1,386,027	1,494,049	252,263	27,758,558
Net change	(39,975,381)	83,025,483	(17,371,618)	(7,274,252)	14,495,659	19,383,613	(40,540,587)	21,005,745
Share of plan fiduciary net position, beginning of year	446,947,619	363,922,136	381,293,754	388,568,006	374,072,347	354,688,734	395,229,321	374,223,576
Share of Plan Fiduciary Net Position, End of Year	406,972,238	446,947,619	363,922,136	381,293,754	388,568,006	374,072,347	354,688,734	395,229,321
<b>SHARE OF NET PENSION LIABILITY</b>	<u>\$ 63,174,607</u>	<u>\$ 65,221,327</u>	<u>\$ 144,305,198</u>	<u>\$ 132,909,889</u>	<u>\$ 131,981,165</u>	<u>\$ 178,961,907</u>	<u>\$ 194,075,547</u>	<u>\$ 170,229,438</u>
<b>Nonemployer contributing entity share of collective net pension liability</b>	6.9%	7.4%	13.1%	14.2%	15.9%	19.0%	19.5%	20.6%
<b>Plan fiduciary net position as a percentage of total pension liability</b>	86.6%	87.3%	71.6%	74.2%	74.6%	67.6%	64.6%	69.9%

\* As described in Notes 1 and 17 GLWA was established on January 1, 2016. At that time, GLWA assumed a portion of the net position and liabilities of the City of Detroit Water and Sewerage Department. This reflects only the portion allocated to GLWA.

\*\* The 2015 information is presented based on City of Detroit Water and Sewerage Department (DWSD) prior to the establishment of GLWA. The amounts shown represent GLWA's allocation, fiduciary net position and net pension liability. The actual employer contributions made by DWSD were \$42,888,889.

This schedule is being built prospectively; ultimately, 10 years of data will be presented.

The accompanying notes to required supplementary information are an integral part of these financial statements

## GREAT LAKES WATER AUTHORITY

## REQUIRED SUPPLEMENTARY INFORMATION

Nonemployer Contributing Entity Share of City of Detroit General Employees' Retirement System - Component II  
Schedule of Changes in Net Pension Liability and Related Ratios - Water Fund

	Fiscal Year							
	2023	2022	2021	2020	2019	2018	2017	2016
Measurement Date	2022*	2021*	2020*	2019*	2018*	2017*	2016*	2015**
<b>Share of Total Pension Liability</b>								
Interest	\$ 11,408,491	\$ 12,299,693	\$ 13,006,533	\$ 13,155,758	\$ 13,111,573	\$ 13,560,348	\$ 14,475,348	\$ 18,422,673
Differences between expected and actual experience	(43,813)	(3,299,415)	(3,679,680)	1,241,001	(114,927)	849,266	(1,815,233)	(153,112)
Changes in assumptions	(10,270,600)	8,341,534	4,696,986	-	(7,651,537)	5,431,838	6,318,782	(7,093,982)
Benefit changes	-	-	-	-	-	-	-	(54,618,440)
Benefit payments, including refunds of employee contributions	(16,157,477)	(15,928,886)	(16,166,129)	(16,671,401)	(16,989,833)	(18,310,822)	(24,963,262)	(19,462,302)
Net change	(15,063,399)	1,412,926	(2,142,290)	(2,274,642)	(11,644,724)	1,530,630	(5,984,365)	(62,905,163)
Share of total pension liability, beginning of year	183,593,989	182,181,063	184,323,353	186,597,995	198,242,719	196,712,089	202,696,454	265,601,617
Share of Total Pension Liability, End of Year	168,530,590	183,593,989	182,181,063	184,323,353	186,597,995	198,242,719	196,712,089	202,696,454
<b>Share of Plan Fiduciary Net Position</b>								
Employer contributions	10,810,800	10,810,800	10,810,800	10,810,800	10,810,800	10,810,800	10,810,800	10,808,000
Employee contributions	-	-	-	-	-	-	-	46,941
Net investment income (loss)	(9,347,846)	34,407,230	(1,295,521)	3,295,871	10,878,360	13,912,782	(470,295)	6,194,355
Benefit payments, including refunds of employee contributions	(16,157,477)	(15,928,886)	(16,166,129)	(16,671,401)	(16,989,833)	(18,310,822)	(24,963,262)	(19,462,302)
Administrative expense	-	-	-	-	-	-	-	(7,633)
Other changes	364,799	472,481	423,755	(42,826)	496,841	535,562	90,427	9,950,436
Net change	(14,329,724)	29,761,625	(6,227,095)	(2,607,556)	5,196,168	6,948,322	(14,532,330)	7,529,797
Share of plan fiduciary net position, beginning of year	160,214,509	130,452,884	136,679,979	139,287,535	134,091,367	127,143,045	141,675,375	134,145,578
Share of Plan Fiduciary Net Position, End of Year	145,884,785	160,214,509	130,452,884	136,679,979	139,287,535	134,091,367	127,143,045	141,675,375
<b>SHARE OF NET PENSION LIABILITY</b>	<b>\$ 22,645,805</b>	<b>\$ 23,379,480</b>	<b>\$ 51,728,179</b>	<b>\$ 47,643,374</b>	<b>\$ 47,310,460</b>	<b>\$ 64,151,352</b>	<b>\$ 69,569,044</b>	<b>\$ 61,021,079</b>
<b>Nonemployer contributing entity share of collective net pension liability - Water Fund</b>	2.5%	2.6%	4.7%	5.1%	5.7%	6.8%	7.0%	7.4%
<b>Plan fiduciary net position as a percentage of total pension liability</b>	86.6%	87.3%	71.6%	74.2%	74.6%	67.6%	64.6%	69.9%

\* As described in Notes 1 and 17 GLWA was established on January 1, 2016. At that time, GLWA assumed a portion of the net position and liabilities of the City of Detroit Water and Sewerage Department. This reflects only the portion allocated to GLWA.

\*\* The 2015 information is presented based on City of Detroit Water and Sewerage Department (DWSD) prior to the establishment of GLWA. The amounts shown represent GLWA's allocation, fiduciary net position and net pension liability. The actual employer contributions made by DWSD were \$18,440,222.

This schedule is being built prospectively; ultimately, 10 years of data will be presented.

The accompanying notes to required supplementary information are an integral part of these financial statements.

## GREAT LAKES WATER AUTHORITY

## REQUIRED SUPPLEMENTARY INFORMATION

Nonemployer Contributing Entity Share of City of Detroit General Employees' Retirement System - Component II  
Schedule of Changes in Net Pension Liability and Related Ratios - Sewage Disposal Fund

	Fiscal Year							
	2023	2022	2021	2020	2019	2018	2017	2016
Measurement Date	2022*	2021*	2020*	2019*	2018*	2017*	2016*	2015**
<b>Share of Total Pension Liability</b>								
Interest	\$ 20,417,578	\$ 22,012,546	\$ 23,277,566	\$ 23,544,630	\$ 23,465,553	\$ 24,268,718	\$ 25,906,278	\$ 32,970,738
Differences between expected and actual experience	(78,411)	(5,904,906)	(6,585,459)	2,220,999	(205,683)	1,519,917	(3,248,690)	(274,022)
Changes in assumptions	(18,381,115)	14,928,696	8,406,113	-	(13,693,822)	9,721,266	11,308,613	(12,695,976)
Benefit changes	-	-	-	-	-	-	-	(97,749,668)
Benefit payments, including refunds of employee contributions	(28,916,754)	(28,507,650)	(28,932,239)	(29,836,515)	(30,406,407)	(32,770,558)	(44,676,314)	(34,831,342)
Net change	(26,958,702)	2,528,686	(3,834,019)	(4,070,886)	(20,840,359)	2,739,343	(10,710,113)	(112,580,270)
Share of total pension liability, beginning of year	328,574,957	326,046,271	329,880,290	333,951,176	354,791,535	352,052,192	362,762,305	475,342,575
Share of Total Pension Liability, End of Year	301,616,255	328,574,957	326,046,271	329,880,290	333,951,176	354,791,535	352,052,192	362,762,305
<b>Share of Plan Fiduciary Net Position</b>								
Employer contributions	19,347,900	19,347,900	19,347,900	19,347,900	19,347,900	19,347,900	19,347,900	19,342,889
Employee contributions	-	-	-	-	-	-	-	84,010
Net investment income (loss)	(16,729,676)	61,578,019	(2,318,571)	5,898,562	19,468,812	24,899,462	(841,679)	11,085,930
Benefit payments, including refunds of employee contributions	(28,916,754)	(28,507,650)	(28,932,239)	(29,836,515)	(30,406,407)	(32,770,558)	(44,676,314)	(34,831,342)
Administrative expense	-	-	-	-	-	-	-	(13,661)
Other changes	652,873	845,589	758,387	(76,643)	889,186	958,487	161,836	17,808,122
Net change	(25,645,657)	53,263,858	(11,144,523)	(4,666,696)	9,299,491	12,435,291	(26,008,257)	13,475,948
Share of plan fiduciary net position, beginning of year	286,733,110	233,469,252	244,613,775	249,280,471	239,980,980	227,545,689	253,553,946	240,077,998
Share of Plan Fiduciary Net Position, End of Year	261,087,453	286,733,110	233,469,252	244,613,775	249,280,471	239,980,980	227,545,689	253,553,946
<b>SHARE OF NET PENSION LIABILITY</b>	<b>\$ 40,528,802</b>	<b>\$ 41,841,847</b>	<b>\$ 92,577,019</b>	<b>\$ 85,266,515</b>	<b>\$ 84,670,705</b>	<b>\$ 114,810,555</b>	<b>\$ 124,506,503</b>	<b>\$ 109,208,359</b>
<b>Nonemployer contributing entity share of collective net pension liability - Sewage Disposal Fund</b>	4.4%	4.7%	8.4%	9.1%	10.2%	12.2%	12.5%	13.2%
<b>Plan fiduciary net position as a percentage of total pension liability</b>	86.6%	87.3%	71.6%	74.2%	74.6%	67.6%	64.6%	69.9%

\* As described in Notes 1 and 17 GLWA was established on January 1, 2016. At that time, GLWA assumed a portion of the net position and liabilities of the City of Detroit Water and Sewerage Department. This reflects only the portion allocated to GLWA.

\*\* The 2015 information is presented based on City of Detroit Water and Sewerage Department (DWSD) prior to the establishment of GLWA. The amounts shown represent GLWA's allocation, fiduciary net position and net pension liability. The actual employer contributions made by DWSD were \$24,448,667.

This schedule is being built prospectively; ultimately, 10 years of data will be presented.

The accompanying notes to required supplementary information are an integral part of these financial statements.

## GREAT LAKES WATER AUTHORITY

## REQUIRED SUPPLEMENTARY INFORMATION

Nonemployer Contributing Entity Share of City of Detroit General Employees' Retirement System - Component II  
Schedule of Contributions

	Fiscal Year							
	2023*	2022*	2021*	2020*	2019*	2018*	2017*	2016*
<b>Total Business-Type Activities</b>								
Contractually required contribution**	\$ 30,158,700	\$ 30,158,700	\$ 30,158,700	\$ 30,158,700	\$ 30,158,700	\$ 30,158,700	\$ 30,158,700	\$ 30,158,700
Actual contribution	<u>30,158,700</u>	<u>30,158,700</u>	<u>30,158,700</u>	<u>30,158,700</u>	<u>30,158,700</u>	<u>30,158,700</u>	<u>30,158,700</u>	<u>30,158,700</u>
Contribution deficiency (excess)	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>
<b>Water Fund</b>								
Contractually required contribution**	\$ 10,810,800	\$ 10,810,800	\$ 10,810,800	\$ 10,810,800	\$ 10,810,800	\$ 10,810,800	\$ 10,810,800	\$ 10,810,800
Actual contribution	<u>10,810,800</u>	<u>10,810,800</u>	<u>10,810,800</u>	<u>10,810,800</u>	<u>10,810,800</u>	<u>10,810,800</u>	<u>10,810,800</u>	<u>10,810,800</u>
Contribution deficiency (excess)	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>
<b>Sewage Disposal Fund</b>								
Contractually required contribution**	\$ 19,347,900	\$ 19,347,900	\$ 19,347,900	\$ 19,347,900	\$ 19,347,900	\$ 19,347,900	\$ 19,347,900	\$ 19,347,900
Actual contribution	<u>19,347,900</u>	<u>19,347,900</u>	<u>19,347,900</u>	<u>19,347,900</u>	<u>19,347,900</u>	<u>19,347,900</u>	<u>19,347,900</u>	<u>19,347,900</u>
Contribution deficiency (excess)	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>

\* As described in Notes 1 and 17 GLWA was established on January 1, 2016. At that time GLWA assumed a portion of the net position and liabilities of the City of Detroit Water and Sewerage Department. This reflects only the portion allocated to GLWA.

\*\* Contributions are determined by the provisions of the Plan of Adjustment and are not actuarially determined.

This schedule is being built prospectively; ultimately, 10 years of data will be presented.

The accompanying notes to required supplementary information are an integral part of these financial statements.



Nonemployer Contributing Entity Share of City of Detroit General Employees' Retirement System –  
Component IINOTES TO REQUIRED SUPPLEMENTARY INFORMATION  
For the Year Ended June 30, 2023

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*Changes in Assumptions*

In 2016, amounts reported as changes in assumptions resulted from adjustment of the discount rate from 7.61 percent to 7.23 percent.

In 2017, amounts reported as changes of assumptions resulted from adjustment of the discount rate from 7.23 percent to 6.91 percent.

In 2018, amounts reported as changes of assumptions resulted from adjustment of the discount rate from 6.91 percent to 7.38 percent.

In 2020, amounts reported as changes of assumptions resulted from adjustment of the discount rate from 7.38 percent to 7.06 percent.

In 2021, amounts reported as changes of assumptions resulted from adjustment of the discount rate from 7.06 percent to 6.50 percent.

In 2022, amounts reported as changes of assumptions resulted from adjustment of the discount rate from 6.50 percent to 6.75 percent and updating the mortality tables from the RP-2014 Blue Collar Annuitant Table to the Pub-2010 General Employee table, as well as updates to wage inflation, withdrawal, and disability rates.

Note: GLWA began operations on January 1, 2016. Accounting standards allow the presentation of as many years as are available until ten fiscal years are presented. This schedule is being built prospectively. Ultimately, 10 years of data will be presented.

## **SUPPLEMENTARY INFORMATION**

## GREAT LAKES WATER AUTHORITY

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## COMBINING SCHEDULE OF NET POSITION - WATER FUND

As of June 30, 2023

	Water Operations Fund	Water Improvement and Extension Fund	Water Construction Fund	Total Water Fund
<b>Assets</b>				
Current Assets				
Cash and cash equivalents	\$ 105,735,172	\$ 116,890,378	\$ -	\$ 222,625,550
Restricted cash and cash equivalents	90,024,353	-	37,655,217	127,679,570
Restricted cash for the benefit of DWSD	17,474,699	-	-	17,474,699
Investments	19,433,257	1,648,515	-	21,081,772
Restricted investments	9,975,144	-	-	9,975,144
Receivables				
Billed	55,359,908	-	-	55,359,908
Unbilled	33,527,694	-	-	33,527,694
Other	286,079	-	-	286,079
Allowance for doubtful accounts	(16,225,907)	-	-	(16,225,907)
Due from other governments	5,692,565	93,000	-	5,785,565
Due from other funds	-	1,001,087	31,667	1,032,754
Due from other water funds	109,746	20,553,426	679,970	21,343,142
Contractual obligation receivable	20,608,286	-	-	20,608,286
Prepaid items and other assets	10,793,138	1,948	-	10,795,086
Total Current Assets	<u>352,794,134</u>	<u>140,188,354</u>	<u>38,366,854</u>	<u>531,349,342</u>
Noncurrent Assets				
Restricted cash and cash equivalents	7,280,283	-	89,199,882	96,480,165
Restricted investments	3,040,772	-	18,961,394	22,002,166
Contractual obligation receivable	544,820,801	-	-	544,820,801
Prepaid lease	11,250,000	-	-	11,250,000
Capital assets				
Nondepreciable/nonamortizable	670,557,112	-	-	670,557,112
Depreciated/amortized, net	1,330,639,811	-	-	1,330,639,811
Prepaid insurance on debt	5,995,322	-	-	5,995,322
Total noncurrent assets	<u>2,573,584,101</u>	<u>-</u>	<u>108,161,276</u>	<u>2,681,745,377</u>
Total Assets	<u>2,926,378,235</u>	<u>140,188,354</u>	<u>146,528,130</u>	<u>3,213,094,719</u>
<b>Deferred outflows of resources</b>				
Deferred charge on refunding	39,316,288	-	-	39,316,288
Deferred pension amounts	17,107,308	-	-	17,107,308
Total Deferred Outflows of Resources	<u>56,423,596</u>	<u>-</u>	<u>-</u>	<u>56,423,596</u>

The accompanying notes to the supplementary information are an integral part of this schedule.

	Water Operations Fund	Water Improvement and Extension Fund	Water Construction Fund	Total Water Fund
<b>Liabilities</b>				
Current Liabilities				
Accounts and contracts payable	\$ 21,428,232	\$ 1,123,855	\$ 37,655,217	\$ 60,207,304
Accrued salaries, wages and benefits	1,757,758	-	-	1,757,758
Accrued liabilities	23,477,888	1,633,328	-	25,111,216
Due to other governments	3,124,058	-	-	3,124,058
Due to other funds	226,996	-	1,987,718	2,214,714
Due to other water funds	20,553,426	679,970	109,746	21,343,142
Interest payable	41,789,634	-	-	41,789,634
Current portion of:				
Revenue bonds and loans	62,332,082	-	-	62,332,082
Raw water rights obligation	2,963,619	-	-	2,963,619
BC Note obligation	214,151	-	-	214,151
Regional system lease	5,928,467	-	-	5,928,467
Other liabilities	3,743,223	-	-	3,743,223
Total Current Liabilities	187,539,534	3,437,153	39,752,681	230,729,368
Noncurrent Liabilities				
Revenue bonds and loans	2,592,206,224	-	-	2,592,206,224
Raw water rights obligation	89,552,155	-	-	89,552,155
BC Note obligation	16,124,188	-	-	16,124,188
Regional system lease	394,167,195	-	-	394,167,195
Other liabilities	3,713,668	-	-	3,713,668
Net pension liability	22,645,805	-	-	22,645,805
Total Noncurrent Liabilities	3,118,409,235	-	-	3,118,409,235
Total Liabilities	3,305,948,769	3,437,153	39,752,681	3,349,138,603
<b>Deferred Inflows of Resources</b>				
Deferred gain on refunding	44,182,654	-	-	44,182,654
Deferred amounts for swap terminations	56,712	-	-	56,712
Total Deferred Inflows of Resources	44,239,366	-	-	44,239,366
<b>Net Position (Deficit)</b>				
Net investment in capital assets	(305,166,196)	-	106,775,449	(198,390,747)
Restricted for debt service	56,139,482	-	-	56,139,482
Restricted for payment assistance program	2,289,905	-	-	2,289,905
Unrestricted	(120,649,495)	136,751,201	-	16,101,706
<b>TOTAL NET POSITION</b>	<b>\$ (367,386,304)</b>	<b>\$ 136,751,201</b>	<b>\$ 106,775,449</b>	<b>\$ (123,859,654)</b>

The accompanying notes to the supplementary information are an integral part of this schedule.

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## COMBINING SCHEDULE OF REVENUES, EXPENSES AND CHANGES IN NET POSITION - WATER FUND

For the Year Ended June 30, 2023

	Water Operations Fund	Water Improvement and Extension Fund	Water Construction Fund	Total Water Fund
<b>Operating Revenues</b>				
Wholesale customer charges	\$ 340,593,806	\$ -	\$ -	\$ 340,593,806
Local system charges	22,834,300	-	-	22,834,300
Other revenues	350,991	-	-	350,991
Total Operating Revenues	363,779,097	-	-	363,779,097
<b>Operating Expenses</b>				
Operating expenses before depreciation and amortization				
Personnel	48,855,342	-	-	48,855,342
Contractual services	51,025,400	1,791,787	-	52,817,187
Utilities	33,436,545	-	-	33,436,545
Chemicals	12,689,666	-	-	12,689,666
Supplies and other expenses	11,926,150	-	-	11,926,150
Capital program allocation	(1,172,302)	-	-	(1,172,302)
Intergovernmental reimbursements	(2,785,190)	(600,350)	-	(3,385,540)
Total operating expenses before depreciation and amortization	153,975,611	1,191,437	-	155,167,048
Depreciation	126,485,762	-	-	126,485,762
Amortization of intangible assets	3,566,664	-	-	3,566,664
Total Operating Expenses	284,028,037	1,191,437	-	285,219,474
<b>Operating Income (Loss)</b>	79,751,060	(1,191,437)	-	78,559,623
<b>Nonoperating Revenues (Expenses)</b>				
Earnings on investments	7,326,654	3,218,195	6,179,636	16,724,485
Interest on obligations receivable	24,662,083	-	-	24,662,083
Interest expense	(131,161,860)	-	-	(131,161,860)
Amortization of debt related items and cost of issuance	14,577,852	-	-	14,577,852
Legacy pension recovery	7,443,572	-	-	7,443,572
Water Residential Assistance Program	(5,023,436)	-	-	(5,023,436)
Other	526,317	72	-	526,389
Discontinued capital projects	(20,902,626)	-	-	(20,902,626)
Capital outlay	199,617,587	(6,405,255)	(193,212,332)	-
Total Nonoperating Revenues (Expenses)	97,066,143	(3,186,988)	(187,032,696)	(93,153,541)
<b>Income (Loss) Before Transfers</b>	176,817,203	(4,378,425)	(187,032,696)	(14,593,918)
<b>Transfer in</b>	8,210,635	47,166,122	316,152,254	371,529,011
<b>Transfer out</b>	(340,278,651)	(4,292,361)	(26,957,999)	(371,529,011)
<b>Change in Net Position</b>	(155,250,813)	38,495,336	102,161,559	(14,593,918)
NET POSITION (DEFICIT), Beginning of Year	(212,135,491)	98,255,865	4,613,890	(109,265,736)
<b>NET POSITION (DEFICIT), END OF YEAR</b>	<u>\$ (367,386,304)</u>	<u>\$ 136,751,201</u>	<u>\$ 106,775,449</u>	<u>\$ (123,859,654)</u>

Note: Transfers in (out) are used for recording financial activity related to borrowing proceeds and MBO requirements.

The accompanying notes to the supplementary information are an integral part of this schedule.

## GREAT LAKES WATER AUTHORITY

DRAFT 12.4.23

## COMBINING SCHEDULE OF NET POSITION - SEWAGE DISPOSAL FUND

As of June 30, 2023

	Sewer Operations Fund	Sewer Improvement and Extension Fund	Sewer Construction Fund	Total Sewage Disposal Fund
<b>Assets</b>				
Current Assets				
Cash and cash equivalents	\$ 146,232,552	\$ 113,877,546	\$ -	\$ 260,110,098
Restricted cash and cash equivalents	106,715,859	229,095	30,153,418	137,098,372
Restricted cash for the benefit of DWSD	24,989,273	-	-	24,989,273
Investments	30,472,598	11,686,925	-	42,159,523
Restricted investments	33,698,337	-	-	33,698,337
Receivables:				
Billed	55,950,458	-	-	55,950,458
Unbilled	24,240,500	-	-	24,240,500
Other	115,479	-	-	115,479
Allowance for doubtful accounts	(42,620,781)	-	-	(42,620,781)
Due from other governments	5,936,441	159,276	-	6,095,717
Due from other funds	-	46,996	2,167,718	2,214,714
Due from other sewage disposal funds	195,035	406,782	142,549	744,366
Contractual obligation receivable	16,060,725	-	-	16,060,725
Prepaid items and other assets	5,433,198	1,476	243,931	5,678,605
Inventories	10,649,496	-	-	10,649,496
Total Current Assets	418,069,170	126,408,096	32,707,616	577,184,882
Noncurrent assets				
Restricted cash and cash equivalents	26,908,700	-	39,573,398	66,482,098
Restricted investments	8,765,882	-	103,556,687	112,322,569
Contractual obligation receivable	354,229,111	-	-	354,229,111
Prepaid lease	13,750,000	-	-	13,750,000
Capital assets				
Nondepreciable/nonamortizable	418,201,364	-	-	418,201,364
Depreciated/amortized, net	1,989,243,893	-	-	1,989,243,893
Prepaid insurance on debt	9,147,648	-	-	9,147,648
Total Noncurrent Assets	2,820,246,598	-	143,130,085	2,963,376,683
Total Assets	3,238,315,768	126,408,096	175,837,701	3,540,561,565
<b>Deferred Outflows of Resources</b>				
Deferred charge on refunding	94,632,191	-	-	94,632,191
Deferred pension amounts	30,616,652	-	-	30,616,652
Total Deferred Outflows of Resources	125,248,843	-	-	125,248,843

The accompanying notes to the supplementary information are an integral part of this schedule.

	Sewer Operations Fund	Sewer Improvement and Extension Fund	Sewer Construction Fund	Total Sewage Disposal Fund
<b>Liabilities</b>				
Current Liabilities				
Accounts and contracts payable	\$ 20,583,264	\$ 2,364,512	\$ 30,153,418	\$ 53,101,194
Accrued salaries, wages and benefits	305,601	-	-	305,601
Accrued liabilities	28,840,076	-	-	28,840,076
Due to other governments	3,750,000	-	-	3,750,000
Due to other funds	-	1,032,754	-	1,032,754
Due to other sewage disposal funds	406,782	142,549	195,035	744,366
Interest payable	40,400,733	-	-	40,400,733
Current portion of:				
Revenue bonds and loans	87,393,258	-	-	87,393,258
BC Note obligation	481,694	-	-	481,694
Regional system lease	7,245,904	-	-	7,245,904
Other liabilities	25,439,622	-	-	25,439,622
Total Current Liabilities	<u>214,846,934</u>	<u>3,539,815</u>	<u>30,348,453</u>	<u>248,735,202</u>
Noncurrent Liabilities				
Revenue bonds and loans	2,899,287,729	-	-	2,899,287,729
BC Note obligation	36,268,418	-	-	36,268,418
Regional system lease	481,759,905	-	-	481,759,905
Other liabilities	29,864,963	-	-	29,864,963
Net pension liability	40,528,802	-	-	40,528,802
Total Noncurrent Liabilities	<u>3,487,709,817</u>	<u>-</u>	<u>-</u>	<u>3,487,709,817</u>
Total Liabilities	<u>3,702,556,751</u>	<u>3,539,815</u>	<u>30,348,453</u>	<u>3,736,445,019</u>
<b>Deferred Inflows of Resources</b>				
Deferred gain on refunding	37,087,199	-	-	37,087,199
Deferred amounts for swap terminations	377	-	-	377
Total Deferred Inflows of Resources	<u>37,087,576</u>	<u>-</u>	<u>-</u>	<u>37,087,576</u>
<b>Net Position (Deficit)</b>				
Net investment in capital assets	(283,651,494)	-	145,489,248	(138,162,246)
Restricted for construction	2,180,985	-	-	2,180,985
Restricted for debt service	91,296,778	-	-	91,296,778
Restricted for payment assistance program	2,362,658	-	-	2,362,658
Unrestricted	(188,268,643)	122,868,281	-	(65,400,362)
<b>TOTAL NET POSITION</b>	<u>\$ (376,079,716)</u>	<u>\$ 122,868,281</u>	<u>\$ 145,489,248</u>	<u>\$ (107,722,187)</u>

The accompanying notes to the supplementary information are an integral part of this schedule.



## COMBINING SCHEDULE OF REVENUES, EXPENSES AND CHANGES IN NET POSITION - SEWAGE DISPOSAL FUND

For the Year Ended June 30, 2023

	Sewer Operations Fund	Sewer Improvement and Extension Fund	Sewer Construction Fund	Total Sewage Disposal Fund
<b>Operating Revenues</b>				
Wholesale customer charges	\$ 275,917,502	\$ -	\$ -	\$ 275,917,502
Local system charges	191,042,200	-	-	191,042,200
Industrial waste charges	8,393,103	-	-	8,393,103
Pollutant surcharges	4,894,567	-	-	4,894,567
Other revenues	1,660,020	-	-	1,660,020
<b>Total Operating Revenues</b>	<b>481,907,392</b>	<b>-</b>	<b>-</b>	<b>481,907,392</b>
<b>Operating Expenses</b>				
Operating expenses before depreciation and amortization				
Personnel	65,952,676	-	-	65,952,676
Contractual services	58,677,847	5,451,939	-	64,129,786
Utilities	43,839,991	-	-	43,839,991
Chemicals	17,852,397	-	-	17,852,397
Supplies and other expenses	22,645,561	-	-	22,645,561
Capital program allocation	(1,017,340)	-	-	(1,017,340)
Intergovernmental reimbursements	(1,462,622)	(284,323)	-	(1,746,945)
<b>Total operating expenses before depreciation and amortization</b>	<b>206,488,510</b>	<b>5,167,616</b>	<b>-</b>	<b>211,656,126</b>
Depreciation	163,470,838	-	-	163,470,838
Amortization of intangible assets	439,704	-	-	439,704
<b>Total Operating Expenses</b>	<b>370,399,052</b>	<b>5,167,616</b>	<b>-</b>	<b>375,566,668</b>
<b>Operating Income (Loss)</b>	<b>111,508,340</b>	<b>(5,167,616)</b>	<b>-</b>	<b>106,340,724</b>
<b>Nonoperating Revenues (Expenses)</b>				
Earnings on investments	10,560,274	3,267,913	7,049,158	20,877,345
Interest on shortfall and obligations receivable	16,397,278	-	-	16,397,278
Interest expense	(140,129,194)	-	-	(140,129,194)
Amortization of debt related items and cost of issuance	(10,579,542)	-	-	(10,579,542)
Legacy pension recovery	13,321,630	-	-	13,321,630
Water Residential Assistance Program	(7,319,076)	-	-	(7,319,076)
Other	998,864	47,075	180,000	1,225,939
Discontinued capital projects	-	-	-	-
Capital outlay	109,198,942	(7,170,586)	(102,028,356)	-
<b>Total Nonoperating Revenues (Expenses)</b>	<b>(7,550,824)</b>	<b>(3,855,598)</b>	<b>(94,799,198)</b>	<b>(106,205,620)</b>
<b>Income (Loss) Before Transfers and Capital Contributions</b>	<b>103,957,516</b>	<b>(9,023,214)</b>	<b>(94,799,198)</b>	<b>135,104</b>
<b>Transfer in</b>	<b>5,022,649</b>	<b>33,748,293</b>	<b>244,707,659</b>	<b>283,478,601</b>
<b>Transfer out</b>	<b>(271,045,145)</b>	<b>(4,128,733)</b>	<b>(8,304,723)</b>	<b>(283,478,601)</b>
<b>Capital Contributions</b>	<b>2,176,000</b>	<b>-</b>	<b>-</b>	<b>2,176,000</b>
<b>Change in Net Position</b>	<b>(159,888,980)</b>	<b>20,596,346</b>	<b>141,603,738</b>	<b>2,311,104</b>
NET POSITION (DEFICIT), Beginning of Year	(216,190,736)	102,271,935	3,885,510	(110,033,291)
<b>NET POSITION (DEFICIT), END OF YEAR</b>	<b>\$ (376,079,716)</b>	<b>\$ 122,868,281</b>	<b>\$ 145,489,248</b>	<b>\$ (107,722,187)</b>

Note: Transfers in (out) are used for recording financial activity related to borrowing proceeds and MBO requirements.

The accompanying notes to the supplementary information are an integral part of this schedule.

## GREAT LAKES WATER AUTHORITY

DRAFT 12.4.23

## SCHEDULE OF INTERFUND RECEIVABLES AND PAYABLES

For the Year Ended June 30, 2023

Interfund balances result from the time lag between the dates interfund goods and services are provided or reimbursable expenditures occur and when the payment between funds are made. Interfund balances for the year ended June 30, 2023 consisted of the following:

	Sewage Disposal Fund due to Water Fund			
	Sewer Operations Fund	Sewer Improvement and Extension Fund	Sewer Construction Fund	Total
Water Operations Fund	\$ -	\$ -	\$ -	\$ -
Water Improvement and Extension Fund	-	1,001,087	-	1,001,087
Water Construction Fund	-	31,667	-	31,667
<b>TOTALS</b>	<b>\$ -</b>	<b>\$ 1,032,754</b>	<b>\$ -</b>	<b>\$ 1,032,754</b>

	Water Fund due to Sewage Disposal Fund			
	Water Operations Fund	Water Improvement and Extension Fund	Water Construction Fund	Total
Sewer Operations	\$ -	\$ -	\$ -	\$ -
Sewer Improvement and Extension	46,996	-	-	46,996
Sewer Construction Fund	180,000	-	1,987,718	2,167,718
<b>TOTALS</b>	<b>\$ 226,996</b>	<b>\$ -</b>	<b>\$ 1,987,718</b>	<b>\$ 2,214,714</b>

The accompanying notes to the supplementary information are an integral part of this schedule.

## GREAT LAKES WATER AUTHORITY

DRAFT 12.4.23

SCHEDULE OF OPERATING EXPENSES FOR WATER OPERATIONS FUND - BUDGET TO ACTUAL  
For the Year Ended June 30, 2023

	Original Budget	Amended Budget	Administrative and Centralized Services Reclassification	Final Amended Budget	Actual	Variance Over (Under) Amended Budget	Percent Over (Under) Amended Budget
<b>Operating Expenses</b>							
Personnel	\$ 82,081,400	\$ 77,939,000	\$ (27,254,800)	\$ 50,684,200	\$ 48,855,342	\$ (1,828,858)	-3.61%
Contractual services	80,285,600	81,232,500	(32,718,700)	48,513,800	51,025,400	2,511,600	5.18%
Utilities	27,233,900	33,304,400	(173,600)	33,130,800	33,436,545	305,745	0.92%
Chemicals	6,721,100	12,189,500	-	12,189,500	12,689,666	500,166	4.10%
Supplies and other expenses	20,419,200	20,888,300	(7,705,800)	13,182,500	11,926,150	(1,256,350)	-9.53%
Capital program allocation	(2,946,700)	(1,161,200)	-	(1,161,200)	(1,172,302)	(11,102)	0.96%
Intergovernmental reimbursements	(2,476,400)	(1,042,300)	-	(1,042,300)	(2,785,190)	(1,742,890)	167.22%
Centralized services allocation	(53,238,900)	(49,748,300)	49,748,300	-	-	-	0.00%
Administrative services allocation	(17,616,200)	(18,025,800)	18,025,800	-	-	-	0.00%
Unallocated reserve	4,384,700	1,171,600	(273,400)	898,200	-	(898,200)	-100.00%
Total operating expenses before depreciation and amortization financial reporting basis	144,847,700	156,747,700	(352,200)	156,395,500	153,975,611	(2,419,889)	
SBITA [1]	-	-	352,200	352,200	352,159	(41)	0.00%
<b>TOTAL OPERATING EXPENSES</b>							
<b>BUDGET BASIS</b>	<u>\$ 144,847,700</u>	<u>\$ 156,747,700</u>	<u>\$ -</u>	<u>\$ 156,747,700</u>	<u>\$ 154,327,770</u>	<u>\$ (2,419,930)</u>	-1.54%

[1] The subscription based information technology arrangements (SBITA) costs are an expense for budget purposes. These costs are capitalized under GASB 96 for financial reporting purposes. See Note 2 in the Notes to Supplementary Information.

Note: Centralized and administrative services allocations have been applied to the expense categories above for presentation of the amended budget to the actual amounts.

The accompanying notes to the supplementary information are an integral part of this schedule.

## GREAT LAKES WATER AUTHORITY

DRAFT 12.4.23

SCHEDULE OF OPERATING EXPENSES FOR SEWER OPERATIONS FUND - BUDGET TO ACTUAL  
For the Year Ended June 30, 2023

	Original Budget	Amended Budget	Administrative and Centralized Services Reclassification	Final Amended Budget	Actual	Variance Over (Under) Amended Budget	Percent Over (Under) Amended Budget
<b>Operating Expenses</b>							
Personnel	\$ 40,062,900	\$ 38,206,400	\$ 27,254,800	\$ 65,461,200	\$ 65,952,676	\$ 491,476	0.75%
Contractual services	24,293,600	25,392,500	32,718,700	58,111,200	58,677,847	566,647	0.98%
Utilities	23,773,500	41,317,300	173,600	41,490,900	43,839,991	2,349,091	5.66%
Chemicals	9,397,500	17,335,300	-	17,335,300	17,852,397	517,097	2.98%
Supplies and other expenses	14,492,600	15,274,300	6,511,900	21,786,200	22,645,561	859,361	3.94%
Capital program allocation	(1,429,500)	(974,100)	-	(974,100)	(1,017,340)	(43,240)	4.44%
Intergovernmental reimbursements	(448,600)	(528,500)	-	(528,500)	(1,462,622)	(934,122)	176.75%
Centralized services allocation	53,238,900	49,748,300	(49,748,300)	-	-	-	0.00%
Administrative services allocation	17,616,200	18,025,800	(18,025,800)	-	-	-	0.00%
Unallocated reserve	3,055,500	325,200	273,400	598,600	-	(598,600)	-100.00%
Total operating expenses before depreciation and amortization financial reporting basis	184,052,600	204,122,500	(841,700)	203,280,800	206,488,510	3,207,710	
SBITA [1]	-	-	352,200	352,200	352,159	(41)	0.00%
Warehouse lease [2]	-	-	489,500	489,500	489,546	46	0.01%
<b>TOTAL OPERATING EXPENSES</b>							
<b>BUDGET BASIS</b>	<u>\$ 184,052,600</u>	<u>\$ 204,122,500</u>	<u>\$ -</u>	<u>\$ 204,122,500</u>	<u>\$ 207,330,215</u>	<u>\$ 3,207,715</u>	1.57%

[1] The subscription based information technology arrangements (SBITA) costs are an expense for budget purposes. These costs are capitalized under GASB 96 for financial reporting purposes. See Note 2 in the Notes to Supplementary Information.

[2] The warehouse lease is an expense for budget purposes. For financial reporting it is accounted for under GASB 87. See Note 2 in the Notes to Supplementary Information.

Note: Centralized and administrative services allocations have been applied to the expense categories above for presentation of the amended budget to the actual amounts.

The accompanying notes to the supplementary information are an integral part of this schedule.

SCHEDULE OF OPERATING EXPENSES FOR COMBINED WATER AND SEWER OPERATIONS FUNDS - BUDGET TO ACTUAL  
For the Year Ended June 30, 2023

	Original Budget	Final Amended Budget	Actual	Variance Over (Under) Amended Budget	Percent Over (Under) Amended Budget
<b>Operating Expenses</b>					
Personnel	\$ 122,144,300	\$ 116,145,400	\$ 114,808,018	\$ (1,337,382)	-1.15%
Contractual services	104,579,200	106,625,000	109,703,247	3,078,247	2.89%
Utilities	51,007,400	74,621,700	77,276,536	2,654,836	3.56%
Chemicals	16,118,600	29,524,800	30,542,063	1,017,263	3.45%
Supplies and other expenses	34,911,800	34,968,700	34,571,711	(396,989)	-1.14%
Capital program allocation	(4,376,200)	(2,135,300)	(2,189,642)	(54,342)	2.54%
Intergovernmental reimbursements	(2,925,000)	(1,570,800)	(4,247,812)	(2,677,012)	170.42%
Centralized services allocation	-	-	-	-	0.00%
Administrative services allocation	-	-	-	-	0.00%
Unallocated reserve	7,440,200	1,496,800	-	(1,496,800)	-100.00%
Total operating expenses before depreciation and amortization financial reporting basis	328,900,300	359,676,300	360,464,121	787,821	
SBITA	-	704,400	704,318	(82)	0.00%
Warehouse lease	-	489,500	489,546	46	0.01%
<b>TOTAL OPERATING EXPENSES BUDGET BASIS</b>	<u>\$ 328,900,300</u>	<u>\$ 360,870,200</u>	<u>\$ 361,657,985</u>	<u>\$ 787,785</u>	0.22%

The accompanying notes to the supplementary information are an integral part of this schedule.

**GREAT LAKES WATER AUTHORITY**  
**SCHEDULE OF REVENUE REQUIREMENTS**  
**BUDGET TO ACTUAL - WATER OPERATIONS**  
For the Year Ended June 30, 2023

DRAFT 12.4.23

The Great Lakes Water Authority Board adopts a budget using a revenue requirements method for its operating funds that aligns with water and wastewater revenue charges. This method applies an accrual basis of accounting for revenues and operating expenses in addition to a cash basis of accounting for other commitments, such as debt service, Detroit General Retirement closed pension commitment, lease payment, reserves and certain other payments. The schedule below presents the Board adopted budget, adjusted for amendments, for comparison with actual revenues, expenses, and other payments. Overall, Water Operations experienced a positive variance of approximately \$0.6 million.

	Adopted Budget	Amended Budget	Actual	Variance Over (Under) Amended Budget
<b>Revenues</b>				
Revenue from charges				
Suburban wholesale customers [1]	\$ 331,962,000	\$ 333,856,300	\$ 334,141,233	\$ 284,933
Local system charges	<u>22,985,900</u>	<u>22,834,300</u>	<u>22,834,300</u>	<u>-</u>
Total revenue from charges	<u>354,947,900</u>	<u>356,690,600</u>	<u>356,975,533</u>	<u>284,933</u>
Other revenue [2]	175,000	995,000	1,378,706	383,706
Investment earnings [3]				
Restricted			3,660,022	
Unrestricted			<u>5,501,592</u>	
Total Investment earnings	<u>948,700</u>	<u>9,670,200</u>	<u>9,161,614</u>	<u>(508,586)</u>
<b>Total Revenues</b>	<u>\$ 356,071,600</u>	<u>\$ 367,355,800</u>	<u>\$ 367,515,853</u>	<u>\$ 160,053</u>
<b>Revenue Requirements</b>				
Operations and maintenance [4]	144,847,700	156,747,700	154,327,770	(2,419,930)
General Retirement System legacy pension	6,048,000	6,048,000	6,048,000	-
Debt service	150,337,100	150,055,300	150,055,300	-
General Retirement System accelerated pension	6,268,300	6,268,300	6,268,300	-
Water Residential Assistance Program contribution	1,770,500	1,770,500	1,770,500	-
Extraordinary Repair & Replacement Reserve Fund	-	200,000	2,200,000	2,000,000
Regional system lease	22,500,000	22,500,000	22,500,000	-
Transfer to the Improvement & Extension Fund	<u>24,300,000</u>	<u>23,766,000</u>	<u>23,766,000</u>	<u>-</u>
<b>Total Revenue Requirements</b>	<u>\$ 356,071,600</u>	<u>\$ 367,355,800</u>	<u>\$ 366,935,870</u>	<u>\$ (419,930)</u>
<b>Revenue Requirement Variance</b>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 579,983</u>	<u>\$ 579,983</u>

[1] Revenue from Charges - Suburban Wholesale Customers presented in this schedule differs from those presented on the Statement of Revenues, Expenses and Changes in Net Position due to \$6,452,573 of revenue which was credited for the KWA debt service which is a non-cash transaction that is the payment obligation on the raw water rights.

[2] Other Revenue includes other operating revenues and other nonoperating revenues for the Water Operations Fund. Numbers will not match combining schedules as other nonoperating is net of income and expenses.

[3] Investment earnings excludes earnings on bond proceeds in the Construction Fund. As required by the Master Bond Ordinance, investment earnings on bond proceeds will remain in the Construction Fund.

[4] See the Schedule of Operating Expenses for Water Operations Fund - Budget to Actual. Operations and maintenance expenses in this schedule are based on activities relating only to the Water Operations Fund.

The accompanying notes to the supplementary information are an integral part of this schedule.

## GREAT LAKES WATER AUTHORITY

DRAFT 12.4.23

SCHEDULE OF REVENUE REQUIREMENTS  
BUDGET TO ACTUAL - SEWAGE DISPOSAL OPERATIONS  
For the Year Ended June 30, 2023

The Great Lakes Water Authority Board adopts a budget using a revenue requirements method for its operating funds that aligns with water and wastewater revenue charges. This method applies an accrual basis of accounting for revenues and operating expenses in addition to a cash basis of accounting for other commitments, such as debt service, Detroit General Retirement closed pension commitment, lease payment, reserves and certain other payments. The schedule below presents the Board adopted budget, adjusted for amendments, for comparison with actual revenues, expenses, and other payments. Overall, Sewage Disposal Operations had a negative variance of approximately \$0.9 million.

	Adopted Budget	Amended Budget	Actual	Variance Over (Under) Amended Budget
<b>Revenues</b>				
Revenue from charges				
Suburban wholesale customers	\$ 275,403,500	\$ 274,907,200	\$ 275,917,502	\$ 1,010,302
Local system charges	191,042,200	191,042,200	191,042,200	-
Industrial waste control	8,420,000	8,420,000	8,393,103	(26,897)
Pollutant surcharges	4,950,800	4,950,800	4,894,567	(56,233)
Total revenue from charges	479,816,500	479,320,200	480,247,372	927,172
Other revenue [1]	400,000	2,355,000	4,901,316	2,546,316
Investment earnings [2]				
Restricted			4,102,394	
Unrestricted			8,395,898	
Total Investment earnings	1,155,600	13,532,100	12,498,292	(1,033,808)
<b>Total Revenues</b>	<b>\$ 481,372,100</b>	<b>\$ 495,207,300</b>	<b>\$ 497,646,980</b>	<b>\$ 2,439,680</b>
<b>Revenue Requirements</b>				
Operations and maintenance [3]	184,052,600	204,122,500	207,330,215	3,207,715
General Retirement System legacy pension	10,824,000	10,824,000	10,824,000	-
Debt service	205,638,100	212,509,100	212,669,100	160,000
General Retirement System accelerated pension	11,620,700	11,620,700	11,620,700	-
Water Residential Assistance Program contribution	2,394,200	2,394,200	2,394,200	-
Regional system lease	27,500,000	27,500,000	27,500,000	-
Transfer to the Improvement & Extension Fund	39,342,500	26,236,800	26,236,800	-
<b>Total Revenue Requirements</b>	<b>\$ 481,372,100</b>	<b>\$ 495,207,300</b>	<b>\$ 498,575,015</b>	<b>\$ 3,367,715</b>
<b>Revenue Requirement Variance</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ (928,035)</b>	<b>\$ (928,035)</b>

[1] Other revenue includes other operating revenues and other nonoperating revenues for the Sewer Operations Fund. Amounts will not match combining schedules as other nonoperating is net of income and expenses.

[2] Investment earnings excludes earnings on bond proceeds in the Construction Fund. As required by the Master Bond Ordinance, investment earnings on bond proceeds will remain in the Construction Fund.

[3] See the Schedule of Operating Expenses for Sewer Operations Fund - Budget to Actual. Operations and maintenance expenses in this schedule are based on activities relating only to the Sewer Operations Fund.

The accompanying notes to the supplementary information are an integral part of this schedule.

SCHEDULE OF REVENUE REQUIREMENTS TO STATEMENT OF REVENUES,  
EXPENSES AND CHANGES IN NET POSITION CROSSWALK  
For the Year Ended June 30, 2023

The Great Lakes Water Authority establishes a Revenue Requirements budget for the purpose of establishing charges for services which follows a modified cash basis of accounting. Conversely, the annual financial report is prepared in accordance with Generally Accepted Accounting Principles for enterprise funds of a local government. Because the budget and the financial report are prepared using different bases of accounting, a crosswalk is prepared to reconcile fiscal year financial performance from the budget basis of accounting to the financial statement basis of accounting. Key areas of reconciliation include the following:

- Defined Benefit Pension related to the City of Detroit General Employees Retirement System. Annual contributions are an expense for the budget basis while the accrual basis financial report reflects the current year payment as a deferred outflow.
- Debt Service, BC Note obligation and Regional system lease (principal and interest) are an expense for the budget basis while the accrual basis financial report treats interest as an expense and principal payments as a reduction of a liability.
- WRAP funds are expensed for budget purposes when they are set aside. For financial reporting purposes they are expensed when the service delivery partners provide statements of expenditures.
- Contributions to the Extraordinary Repair & Replacement Fund and Regional System Improvement & Extension Fund are an expense for the budget basis while the accrual basis financial report treats this activity as an increase in assets.
- Payments for the warehouse lease and subscription based information technology arrangements (SBITA) are expensed for budget purposes. For financial reporting purposes the warehouse lease is recorded under GASB 87 and payments are treated as a reduction in the lease liability and interest expense (which is a nonoperating expense). The SBITA payments are recorded under GASB 96 and are treated as a prepaid subscription asset as the software is currently in the implemented phase.
- Depreciation and amortization are not a components of the budget basis while the accrual basis financial report treats these as an expense.

	Water Fund	Sewage Disposal Fund	Total Business- type Activities
<b>Revenue Requirement Variance from Schedule of Revenue Requirements</b>	\$ 579,983	\$ (928,035)	\$ (348,052)
<b>Budgetary adjustments to financial reporting basis</b>			
Pension delayed accounting election adjustments:			
Current year pension payments recorded as deferral	10,810,800	19,347,900	30,158,700
Prior year pension deferral accounted for in current year	7,443,572	13,321,630	20,765,202
Administrative fee prepaid adjustment	406,143	726,866	1,133,009
Debt service	64,622,809	111,094,949	175,717,758
BC Note obligation	203,942	458,757	662,699
Regional system lease	5,706,506	6,974,619	12,681,125
Water Residential Assistance Program (WRAP)	(3,252,936)	(4,924,876)	(8,177,812)
Extraordinary Repair & Replacement Fund transfers	2,200,000	-	2,200,000
Improvement & Extension Fund transfers	23,766,000	26,236,800	50,002,800
GASB 87 & GASB 96 adjustments	352,159	719,860	1,072,019
<b>Nonbudgeted financial reporting adjustments</b>			
Depreciation and amortization	(130,052,426)	(163,910,542)	(293,962,968)
Amortization - debt related	14,577,852	(10,579,542)	3,998,310
Improvement & Extension Fund operating expenses	(1,191,437)	(5,167,616)	(6,359,053)
Investment earnings on bond funds in Construction Fund	6,060,710	6,964,460	13,025,170
Investment earnings unrealized gain (loss)	1,502,165	1,414,597	2,916,762
Discontinued capital projects	(20,902,626)	-	(20,902,626)
Raw water rights obligation	2,850,335	-	2,850,335
Other nonoperating income (expenses)	(277,469)	(1,614,723)	(1,892,192)
Capital contribution	-	2,176,000	2,176,000
<b>Change in Net Position per Statement of Revenues, Expenses and Changes in Net Position</b>	<u>\$ (14,593,918)</u>	<u>\$ 2,311,104</u>	<u>\$ (12,282,814)</u>

The accompanying notes to the supplementary information are an integral part of this schedule.



## WATER IMPROVEMENT AND EXTENSION FUND - BUDGET TO ACTUAL

For the Year Ended June 30, 2023

The Great Lakes Water Authority Board adopts a budget for the uses of the Improvement & Extension Funds. The schedule below presents the Board adopted budget, adjusted for amendments, for comparison with actual activity in the Water I&E Fund. The Water I&E Fund experienced an increase of \$38.5 million in net position and a negative budget variance of approximately \$0.9 million.

	Adopted Budget	Amended Budget	Actual [4]	Variance Over (Under) Amended Budget
<b>Inflows</b>				
Transfers in from Water Operations Fund				
Revenue transfers	\$ 24,300,000	\$ 23,766,000	\$ 23,766,000	\$ -
Transfers in from Water Construction Fund				
Working capital adjustment [1]	-	23,039,700	23,039,725	25
Investment earnings [2]	-	2,768,700	1,942,739	(825,961)
Total Inflows	<u>24,300,000</u>	<u>49,574,400</u>	<u>48,748,464</u>	<u>(825,936)</u>
<b>Outflows</b>				
Capital spending other (net operating expenses)	-	3,503,400	1,191,437	(2,311,963)
Capital outlay	15,452,600	5,570,100	6,405,255	835,155
Transfers out to Water Operations Fund				
GASB 96 expenditures [3]	-	-	1,930,471	1,930,471
Investment earnings [2]	-	2,768,700	2,361,890	(406,810)
Transfer out to Water Construction Fund				
Revenue financed capital	<u>28,735,400</u>	<u>-</u>	<u>-</u>	<u>-</u>
Total Outflows	<u>44,188,000</u>	<u>11,842,200</u>	<u>11,889,053</u>	<u>46,853</u>
<b>Net Increase (Decrease) - Budget Basis</b>	<u>\$ (19,888,000)</u>	<u>\$ 37,732,200</u>	<u>36,859,411</u>	<u>\$ (872,789)</u>
Non-budgeted inflows (outflows)				
Unrealized net increase in fair value of investments			1,275,456	
Other			72	
Other transfers in			<u>360,397</u>	
<b>Combining Schedule Water Improvement and Extension Fund Change in Net Position [4]</b>			<u>\$ 38,495,336</u>	

- [1] The I&E Fund provided working capital and funding of capital expenditures in prior years through revenue financed capital transfers to the Construction Fund. The remaining working capital funds were returned to the I&E Fund during the year.
- [2] As required by the Master Bond Ordinance, investment earnings on I&E funds are transferred to the receiving fund on a monthly basis.
- [3] The subscription based information technology arrangements (SBITA) costs are an expense for budget purposes. These costs are capitalized under GASB 96 for financial reporting purposes, therefore they are shown as a transfer out to the Water Operations Fund for this analysis. See Note 2 in the Notes to Supplementary Information.
- [4] See the Combining Schedule of Revenues, Expenses and Changes in Net Position - Water Fund. Information in this schedule is based on activity in the Water Improvement and Extension Fund.

The accompanying notes to the supplementary information are an integral part of this schedule.

## GREAT LAKES WATER AUTHORITY

DRAFT 12.4.23

## SEWER IMPROVEMENT AND EXTENSION FUND - BUDGET TO ACTUAL

For the Year Ended June 30, 2023

The Great Lakes Water Authority Board adopts a budget for the uses of the Improvement & Extension Funds. The schedule below presents the Board adopted budget, adjusted for amendments, for comparison with actual activity in the Sewer I&E Fund. The Sewer I&E Fund experienced an increase of \$20.6 million in net position and a positive budget variance of approximately \$0.5 million.

	Adopted Budget	Amended Budget	Actual [4]	Variance Over (Under) Amended Budget
<b>Inflows</b>				
Transfers in from Sewer Operations Fund				
Revenue transfers	\$ 39,342,500	\$ 26,236,800	\$ 26,236,800	\$ -
Transfers in from Sewer Construction Fund				
Working capital adjustment [1]	-	7,410,800	7,410,807	7
Other nonoperating revenue - grants	-	-	46,996	46,996
Investment earnings [2]	-	3,395,700	2,533,262	(862,438)
<b>Total Inflows</b>	<b>39,342,500</b>	<b>37,043,300</b>	<b>36,227,865</b>	<b>(815,435)</b>
<b>Outflows</b>				
Capital spending other (net operating expenses)	-	7,748,000	5,167,616	(2,580,384)
Capital outlay	18,447,100	6,630,700	7,170,586	539,886
Transfers out to Sewer Operations Fund				
GASB 96 expenditures [3]	-	-	1,622,671	1,622,671
Investment earnings [2]	-	3,395,700	2,506,062	(889,638)
Transfer out to Sewer Construction Fund				
Revenue financed capital	26,444,900	-	-	-
<b>Total Outflows</b>	<b>44,892,000</b>	<b>17,774,400</b>	<b>16,466,935</b>	<b>(1,307,465)</b>
<b>Net Increase (Decrease) - Budget Basis</b>	<b>\$ (5,549,500)</b>	<b>\$ 19,268,900</b>	<b>19,760,930</b>	<b>\$ 492,030</b>
Non-budgeted inflows (outflows)				
Unrealized net increase in fair value of investments			734,651	
Other			79	
Other transfers in			100,686	
<b>Combining Schedule Sewer Improvement and Extension Fund Change in Net Position [4]</b>			<b>\$ 20,596,346</b>	

- [1] The I&E Fund provided working capital and funding of capital expenditures in prior years through revenue financed capital transfers to the Construction Fund. The remaining working capital funds were returned to the I&E Fund during the year.
- [2] As required by the Master Bond Ordinance, investment earnings on I&E funds are transferred to the receiving fund on a monthly basis.
- [3] The subscription based information technology arrangements (SBITA) costs are an expense for budget purposes. These costs are capitalized under GASB 96 for financial reporting purposes, therefore they are shown as a transfer out to the Sewer Operations Fund for this analysis. See Note 2 in the Notes to Supplementary Information.
- [4] See the Combining Schedule of Revenues, Expenses and Changes in Net Position - Sewage Disposal Fund. Information in this schedule is based on activity in the Sewer Improvement and Extension Fund.

The accompanying notes to the supplementary information are an integral part of this schedule.

**GREAT LAKES WATER AUTHORITY**  
**WATER CONSTRUCTION FUND - BUDGET TO ACTUAL**  
**For the Year Ended June 30, 2023**

DRAFT 12.4.23

The Great Lakes Water Authority Board adopts a budget for the use of the Construction Funds. The schedule below presents the Board adopted budget, adjusted for amendments, for comparison with actual activity in the Water Construction Fund. The Water Construction Fund had an increase of \$102.2 million in net position and a positive budget variance of approximately \$8.4 million.

	Adopted Budget	Amended Budget	Actual [4]	Variance Over (Under) Amended Budget
<b>Inflows</b>				
Transfers from Water Improvement & Extension Fund				
Revenue financed capital	\$ 28,735,400	\$ -	\$ -	\$ -
Transfers in from Water Operations Fund				
Bond proceeds	-	225,000,000	228,878,775	3,878,775
State revolving loans	54,992,000	95,000,000	87,088,198	(7,911,802)
Proceeds sale of asset [1]	-	185,300	185,281	(19)
Investment earnings [2]	128,800	4,565,800	6,179,231	1,613,431
Total Inflows	<u>83,856,200</u>	<u>324,751,100</u>	<u>322,331,485</u>	<u>(2,419,615)</u>
<b>Outflows</b>				
Capital projects	155,501,000	207,962,000	193,212,332	(14,749,668)
Transfers out to Water Operations Fund				
Investment earnings [2]	-	-	89,627	89,627
Bond cost of issuance	-	-	3,828,647	3,828,647
Transfers out to Water Improvement & Extension Fund				
Working capital adjustment [3]	-	23,039,700	23,039,725	25
Total Outflows	<u>155,501,000</u>	<u>231,001,700</u>	<u>220,170,331</u>	<u>(10,831,369)</u>
<b>Net Increase (Decrease) - Budget Basis</b>	<u>\$ -</u>	<u>\$ 23,039,700</u>	102,161,154	<u>\$ 8,411,754</u>
Non-budgeted inflows (outflows)				
Unrealized net increase in fair value of investments			405	
<b>Combining Schedule Water Construction Fund Change in Net Position [4]</b>			<u>\$ 102,161,559</u>	

[1] Proceeds from the sale of an asset that was purchased using bond funds.

[2] As required by the Master Bond Ordinance investment earnings on I&E funds are transferred to the receiving fund on a monthly basis. Any earnings on bond proceeds will remain in the Construction Fund.

[3] The I&E Fund provided working capital and funding of capital expenditures in prior years through revenue financed capital transfers to the Construction Fund. The remaining working capital funds were returned to the I&E Fund during the year.

[4] See the Combining Schedule of Revenues, Expenses and Changes in Net Position - Water Fund. Information in this schedule is based on activity in the Water Construction Fund.

The accompanying notes to the supplementary information are an integral part of this schedule.

**GREAT LAKES WATER AUTHORITY**  
**SEWER CONSTRUCTION FUND - BUDGET TO ACTUAL**  
For the Year Ended June 30, 2023

DRAFT 12.4.23

The Great Lakes Water Authority Board adopts a budget for the use of the Construction Funds. The schedule below presents the Board adopted budget, adjusted for amendments, for comparison with actual activity in the Sewer Construction Fund. The Sewer Construction Fund had an increase of \$141.6 million in net position and a positive budget variance of approximately \$2.3 million.

	Adopted Budget	Amended Budget	Actual [4]	Variance Over (Under) Amended Budget
<b>Inflows</b>				
Transfers in from Sewer Improvement & Extension Fund				
Revenue financed capital	\$ 26,444,900	\$ -	\$ -	\$ -
Transfers in from Sewer Operations Fund				
Bond proceeds	-	225,000,000	218,550,892	(6,449,108)
Reserve release	-	-	7,303,668	7,303,668
State revolving loans	18,720,000	20,000,000	17,712,417	(2,287,583)
Contributed capital	-	2,176,000	-	(2,176,000)
Proceeds sale of asset [1]	-	1,140,700	1,140,682	(18)
Other nonoperating revenue - grants	-	-	180,000	180,000
Investment earnings [2]	86,200	4,803,800	7,220,881	2,417,081
Total Inflows	45,251,100	253,120,500	252,108,540	(1,011,960)
<b>Outflows</b>				
Capital projects	94,449,000	106,220,300	102,028,356	(4,191,944)
Transfers out to Sewer Operations Fund				
Investment earnings [2]	-	-	62,665	62,665
Bond cost of issuance	-	-	831,251	831,251
Transfers out to Sewer Improvement & Extension Fund				
Working capital adjustment [3]	-	7,410,800	7,410,807	7
Total Outflows	94,449,000	113,631,100	110,333,079	(3,298,021)
<b>Net Increase (Decrease) - Budget Basis</b>	<u>\$ (49,197,900)</u>	<u>\$ 139,489,400</u>	<u>141,775,461</u>	<u>\$ 2,286,061</u>
Non-budgeted inflows (outflows)				
Unrealized net decrease in fair value of investments			(171,723)	
<b>Combining Schedule Sewer Construction Fund Change in Net Position [4]</b>			<u>\$ 141,603,738</u>	

[1] Proceeds from the sale of an asset that was purchased using bond funds.

[2] As required by the Master Bond Ordinance investment earnings on I&E funds are transferred to the receiving fund on a monthly basis. Any earnings on bond proceeds will remain in the Construction Fund.

[3] The I&E Fund provided working capital and funding of capital expenditures in prior years through revenue financed capital transfers to the Construction Fund. The remaining working capital funds were returned to the I&E Fund during the year.

[4] See the Combining Schedule of Revenues, Expenses and Changes in Net Position - Sewage Disposal Fund. Information in this schedule is based on activity in the Sewer Construction Fund.

The accompanying notes to the supplementary information are an integral part of this schedule.

## GREAT LAKES WATER AUTHORITY

SCHEDULE OF DAYS CASH - LIQUIDITY  
For the Fiscal Years Ended June

DRAFT 12.4.23

	2023	2022	2021	2020	2019	2018	2017	2016*
<b>Water Fund</b>								
Cash and investments - Unrestricted	\$ 243,707,322	\$ 238,690,879	\$ 353,308,385	\$ 394,440,814	\$ 347,204,928	\$ 317,089,746	\$ 267,335,558	\$ 167,292,572
Operating Expense								
Operating expense	\$ 285,219,474	\$ 264,578,659	\$ 250,476,297	\$ 263,282,730	\$ 263,959,730	\$ 254,602,752	\$ 245,868,861	\$ 120,841,204
Less: depreciation	(126,485,762)	(123,196,027)	(123,271,541)	(127,183,228)	(140,571,120)	(143,991,815)	(144,137,912)	(71,295,545)
Less: amortization of intangible asset	(3,566,664)	(3,566,664)	(3,566,664)	(3,566,664)	(3,566,664)	(2,080,554)	-	-
Net Operating Expense	\$ 155,167,048	\$ 137,815,968	\$ 123,638,092	\$ 132,532,838	\$ 119,821,946	\$ 108,530,383	\$ 101,730,949	\$ 49,545,659
Operating Expense per Day (365 days)	\$ 425,115	\$ 377,578	\$ 338,734	\$ 363,104	\$ 328,279	\$ 297,344	\$ 278,715	\$ 273,733
Number of days cash	573	632	1,043	1,086	1,058	1,066	959	611
<b>Sewage Disposal Fund</b>								
Cash and investments - Unrestricted	\$ 302,269,621	\$ 294,173,630	\$ 323,972,718	\$ 287,464,920	\$ 236,057,128	\$ 208,563,268	\$ 205,179,312	\$ 188,063,375
Operating Expense								
Operating expense	\$ 375,566,668	\$ 345,372,010	\$ 328,983,415	\$ 329,870,427	\$ 342,585,175	\$ 363,629,987	\$ 336,946,731	\$ 170,401,050
Less: depreciation	(163,470,838)	(158,013,629)	(150,772,065)	(152,920,967)	(168,544,370)	(187,250,583)	(185,628,465)	(86,021,029)
Less: amortization of intangible asset	(439,704)	(439,704)	(109,926)	-	-	-	-	-
Net Operating Expense	\$ 211,656,126	\$ 186,918,677	\$ 178,101,424	\$ 176,949,460	\$ 174,040,805	\$ 176,379,404	\$ 151,318,266	\$ 84,380,021
Operating Expense per Day (365 days)	\$ 579,880	\$ 512,106	\$ 487,949	\$ 484,793	\$ 476,824	\$ 483,231	\$ 414,571	\$ 466,188
Number of days cash	521	574	664	593	495	432	495	403
<b>Combined</b>								
Cash and investments - Unrestricted	\$ 545,976,943	\$ 532,864,509	\$ 677,281,103	\$ 681,905,734	\$ 583,262,056	\$ 525,653,014	\$ 472,514,870	\$ 355,355,947
Operating Expense								
Operating expense	\$ 660,786,142	\$ 609,950,669	\$ 579,459,712	\$ 593,153,157	\$ 606,544,905	\$ 618,232,739	\$ 582,815,592	\$ 291,242,254
Less: depreciation	(289,956,600)	(281,209,656)	(274,043,606)	(280,104,195)	(309,115,490)	(331,242,398)	(329,766,377)	(157,316,574)
Less: amortization of intangible asset	(4,006,368)	(4,006,368)	(3,566,664)	(3,566,664)	(3,566,664)	(2,080,554)	-	-
Net Operating Expense	\$ 366,823,174	\$ 324,734,645	\$ 301,849,442	\$ 309,482,298	\$ 293,862,751	\$ 284,909,787	\$ 253,049,215	\$ 133,925,680
Operating Expense per Day (365 days)	\$ 1,004,995	\$ 889,684	\$ 826,985	\$ 847,897	\$ 805,103	\$ 780,575	\$ 693,286	\$ 739,921
Number of days cash	543	599	819	804	724	673	682	480

\* GLWA assumed operations on January 1, 2016. Data for 2016 includes six months of operation under GLWA. Operating expense per day for 2016 is computed using 181 days (six months of operations).

The accompanying notes to the supplementary information are an integral part of this schedule.

NOTES TO SUPPLEMENTARY INFORMATION  
For the Year Ended June 30, 2023

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**Note 1 – Combining Fund Schedules**

The Combining Fund Schedules presented combined the six funds the Authority maintains into the two major funds reported in the Basic Financial Statements, the Water Fund and Sewage Disposal Fund. The following describes the six funds and the purpose of each fund.

**Water Operations Fund** – All water revenues are credited to this fund. All expenses for the operations and maintenance of the water system are paid from this fund. This fund aligns with the operations and maintenance (O&M) expense revenue requirement for establishing service charges.

**Sewer Operations Fund** – All sewer revenues are credited to this fund. All expenses for the operations and maintenance of the wastewater system are paid from this fund. This fund aligns with the operations and maintenance (O&M) expense revenue requirement for establishing service charges.

**Water Improvement & Extension Fund (I&E)** – Amounts that are budgeted in the water revenue requirement to reduce debt financing are transferred to this fund as well as any other water funds that management has determined are available for this use. This fund is used for water system capital outlays and capital improvements. Expenditures under the operating expenses category are expenditures incurred for the betterment of the system, which may lead to capital expenditures but are not necessarily applicable to any current capital improvement.

**Sewer Improvement & Extension Fund (I&E)** – Amounts that are budgeted in the wastewater revenue requirement to reduce debt financing are transferred to this fund as well as any other wastewater funds that management has determined are available for this use. This fund is used for wastewater system capital outlays and capital improvements. Expenditures under the operating expenses category are expenditures incurred for the betterment of the system, which may lead to capital expenditures but are not necessarily applicable to any current capital improvement.

**Water Construction Fund** – This fund is used for the proceeds of water debt obligations and investment earnings thereon. I&E funds may also be transferred to this fund when bond proceeds have been exhausted. Funds are used to pay for water system capital improvements in accordance with the debt obligations.

**Sewer Construction Fund** – This fund is used for the proceeds of sewer debt obligations and investment earnings thereon. I&E funds may also be transferred to this fund when bond proceeds have been exhausted. Funds are used to pay for the wastewater system capital improvements in accordance with the debt obligations.

NOTES TO SUPPLEMENTARY INFORMATION  
For the Year Ended June 30, 2023

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**Note 2 – Budget to Actual Schedules**

***Schedule of Operating Expenses – Budget to Actual***

The schedule of operating expenses for the water operations and the sewer operations provides the detail of the major expense categories of the operations budget compared to the actual results. The schedule includes the actual operating expenses before depreciation and amortization for the Water Operations Fund and the Sewer Operations Fund reported in the Combining Schedule of Revenues, Expenses and Changes in Net position for the Water Fund and the Sewage Disposal Fund. The warehouse lease line represents the total lease payments made for the warehouse which is included in the budget as an operating lease. For financial reporting purposes the warehouse payments are treated as a reduction in the lease liability and interest expense (which is a nonoperating expense). The subscription based information technology arrangements (SBITA) payments line represents the payments made for the SBITA's which is included in the budget as a contractual service. For financial reporting purposes these costs have been treated as a prepaid subscription asset as the software is not in service as of June 30, 2023.

***Schedule of Revenue Requirement – Budget to Actual***

The revenue requirements are the basis for GLWA's budget and calculating Member Partner service charges. The revenue requirements are presented to align with the Master Bond Ordinance flow of funds categories. The budget basis reflects revenues and operations and maintenance expenses on an accrual basis adjusted for GASB 87 and GASB 96 as described in the note above. The budget also includes the cash payments for debt service, legacy pension obligations, water residential assistance program and regional system lease related activities.

The revenue requirement basis is foundational to GLWA's daily operations and long-term financial planning. The budget is adopted by the GLWA Board of Directors by resolution. The Board's action establishes the total operations and maintenance budget, total debt service requirements and total capital expenditures for the I&E Fund and Construction Fund for both the Regional Water System and the Regional Sewer System. The legal level of budgetary control is at this level. Administratively, the budget may be modified within these categories. Modifications to the budget beyond those established levels would be presented to the Audit Committee, and subsequently to the Board.

Investment earnings for the budget basis includes the stated interest rate received, amortization of the market discount or premium, and realized gains and losses (calculated for budget purposes as the difference between the selling price and the amortized cost basis). This will vary from the investment earnings reported in the basic financial statements. The main difference is the budget basis does not include unrealized gains and losses (calculated for budget purposes as the difference between the market value and the amortized cost basis).

**Note 3 – Schedule of Revenue Requirement to Statement of Revenues, Expenses and Changes in Net Position Crosswalk**

The Great Lakes Water Authority establishes a revenue requirement budget for the purposes of establishing charges, which follows a modified cash basis of accounting. The financial report is prepared in accordance with Generally Accepted Accounting Principles for enterprise funds of a local government. The crosswalk provides a reconciliation between the different basis of accounting used for the budget and the financial report.

## STATISTICAL SECTION

The objective of the statistical section is to provide financial statement users with additional historical perspective, context, and detail to assist in using the information in the financial statements, notes to financial statements and required supplementary information to understand and assess the Authority's economic condition.

The statistical section is divided into five sections as follows:

- Financial Trends
- Revenue Capacity
- Debt Capacity
- Demographic and Economic Information
- Operating Information

**Sources:** Unless otherwise noted, information presented in the statistical schedules is compiled from GLWA's Annual Comprehensive Financial Reports, the prior financial reports of DWSD or other internal information systems.





## FINANCIAL TRENDS

Financial trends information is intended to show how the Authority's financial position has changed over time.

**GREAT LAKES WATER AUTHORITY**  
SCHEDULE OF NET POSITION - BUSINESS-TYPE ACTIVITIES

	Fiscal Year							
	2023	2022	2021	2020	2019	2018	2017	2016
<b>Assets</b>								
Current Assets								
Cash and cash equivalents	\$ 482,735,648	\$ 347,655,417	\$ 354,351,132	\$ 208,356,720	\$ 309,015,559	\$ 509,141,777	\$ 470,231,842	\$ 311,735,186
Restricted cash and cash equivalents	264,777,942	87,643,974	151,186,044	65,364,730	164,495,839	105,929,392	132,967,081	134,210,268
Restricted cash for the benefit of DWSD	42,463,972	20,469,633	6,064,197	1,544,529	3,318,316	8,418,827	288,378	62,078
Investments	63,241,295	185,209,092	322,929,971	473,549,014	274,246,497	16,511,237	2,283,028	43,620,761
Restricted investments	43,673,481	103,754,094	31,690,982	117,966,914	34,852,593	33,025,340	32,541,021	56,661,000
Receivables								
Billed	111,310,366	118,892,413	108,247,576	95,159,661	98,886,172	88,712,190	88,694,341	85,676,104
Unbilled	57,768,194	54,395,207	54,387,680	54,893,266	50,441,488	54,429,817	53,818,603	55,345,336
Other	401,558	1,292,666	574,906	310,373	1,137,526	3,728,886	3,158,350	114,648,035
Allowance for doubtful accounts	(58,846,688)	(56,823,732)	(50,884,273)	(44,991,966)	(42,257,915)	(39,084,816)	(35,352,009)	(124,009,242)
Due from other governments	11,881,282	13,454,460	13,240,859	31,802,636	30,243,156	47,927,860	50,789,041	107,688,300
Due from other funds	3,247,468	2,328,086	2,948,712	2,134,191	2,889,522	3,778,220	-	65,971
Contractual obligation receivable	36,669,011	33,529,695	31,195,900	29,661,490	26,418,147	24,813,886	23,339,242	11,929,259
Shortfall receivable - DWSD	-	-	8,296,578	18,206,431	17,542,669	9,367,355	-	-
Prepaid items and other assets	16,473,691	13,622,385	11,744,542	10,150,336	8,448,932	4,949,631	3,526,568	2,591,049
Inventories	10,649,496	8,366,771	7,795,152	7,007,208	5,832,593	8,471,626	8,509,454	9,984,063
Total Current Assets	1,086,446,716	933,790,161	1,053,769,958	1,071,115,533	985,511,094	880,121,228	834,794,940	810,208,168
Noncurrent Assets								
Restricted cash and cash equivalents	162,962,263	5,264,591	5,395,501	47,505,584	94,185,040	48,263,059	306,318,331	160,949,722
Restricted investments	134,324,735	40,691,319	38,533,910	39,819,506	150,978,512	293,697,988	101,708,122	105,028,079
Contractual obligation receivable	899,049,912	919,288,110	936,811,819	954,297,909	883,248,672	812,613,943	830,432,680	832,571,741
Shortfall receivable - DWSD	-	-	-	8,296,578	26,503,010	19,932,645	-	-
Prepaid lease	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	-
Capital assets								
Nondepreciable/nonamortizable	1,088,758,476	887,940,328	813,485,421	719,865,490	786,405,120	706,046,995	730,471,792	711,434,348
Depreciated/amortized, net	3,319,883,704	3,527,083,870	3,644,679,801	3,786,833,157	3,849,136,489	4,089,136,230	4,178,315,045	4,427,945,555
Prepaid insurance on debt	15,142,970	16,773,793	18,357,442	19,988,764	22,635,151	29,933,631	32,694,221	48,653,581
Total Noncurrent Assets	5,645,122,060	5,422,042,011	5,482,263,894	5,601,606,988	5,838,091,994	6,024,624,491	6,204,940,191	6,286,583,026
Total Assets	6,731,568,776	6,355,832,172	6,536,033,852	6,672,722,521	6,823,603,088	6,904,745,719	7,039,735,131	7,096,791,194
Deferred Outflows of Resources								
Deferred charge on refunding	133,948,479	152,338,303	163,387,050	174,435,795	241,879,138	280,975,963	297,646,441	328,659,457
Deferred pension amounts	47,723,960	30,158,700	61,687,252	42,661,204	31,717,285	52,015,636	59,954,478	37,997,043
Total Deferred Outflows of Resources	181,672,439	182,497,003	225,074,302	217,096,999	273,596,423	332,991,599	357,600,919	366,656,500

	Fiscal Year							
	2023	2022	2021	2020	2019	2018	2017	2016
<b>Liabilities</b>								
Current Liabilities								
Accounts and contracts payable	\$ 113,308,498	\$ 94,379,034	\$ 85,221,415	\$ 74,070,629	\$ 74,662,036	\$ 67,832,136	\$ 64,298,400	\$ 85,626,614
Accrued salaries, wages and benefits	2,063,359	2,060,030	6,028,598	5,321,864	4,284,220	4,734,956	3,190,038	2,887,280
Accrued liabilities	53,951,292	25,004,633	11,573,811	5,357,056	7,109,589	12,679,692	2,252,616	1,550,254
Due to other governments	6,874,058	21,360,601	19,443,993	20,032,254	15,963,934	11,983,407	61,242,386	37,893,903
Due to other funds	3,247,468	2,328,086	2,948,712	2,134,191	2,889,522	3,778,220	-	65,971
Interest payable	82,190,367	70,965,548	71,811,380	58,452,960	84,456,284	80,431,318	80,340,520	81,139,013
Current portion of:								
Revenue bonds and loans	149,725,340	127,403,800	119,909,733	121,998,075	117,602,109	81,756,050	89,314,212	96,552,356
Raw water rights obligation	2,963,619	2,845,282	2,734,246	2,624,820	2,520,996	2,999,458	-	-
BC Note obligation	695,845	662,710	631,153	601,097	572,474	545,213	519,251	494,524
Regional system leases	13,174,371	12,637,211	12,121,951	11,627,700	11,153,602	10,698,835	10,262,609	9,844,169
Other liabilities	29,182,845	6,813,946	5,867,203	6,380,583	5,751,747	5,687,043	6,714,210	7,789,273
Total Current Liabilities	457,377,062	366,460,881	338,292,195	308,601,229	326,966,513	283,126,328	318,134,242	323,843,357
Noncurrent Liabilities								
Revenue bonds and loans	5,491,493,953	5,149,961,142	5,319,896,659	5,474,913,736	5,630,571,800	5,714,095,283	5,842,482,161	5,876,115,822
Raw water rights obligation	89,552,155	92,515,774	95,361,056	98,095,302	100,720,123	103,241,118	-	-
BC Note obligation	52,392,606	53,088,452	53,751,162	54,382,315	54,983,412	55,555,887	56,101,100	56,620,351
Regional system lease	875,927,100	889,101,471	901,738,681	913,860,632	925,488,338	936,641,935	947,340,770	957,603,379
Other liabilities	33,578,631	21,122,269	21,514,839	18,757,906	18,771,285	18,437,517	11,340,902	46,002,543
Net pension liability	63,174,607	65,221,327	144,305,198	132,909,889	131,981,165	178,961,907	194,075,547	170,229,438
Total Noncurrent Liabilities	6,606,119,052	6,271,010,435	6,536,567,595	6,692,919,780	6,862,516,123	7,006,933,647	7,051,340,480	7,106,571,533
Total Liabilities	7,063,496,114	6,637,471,316	6,874,859,790	7,001,521,009	7,189,482,636	7,290,059,975	7,369,474,722	7,430,414,890
<b>Deferred Inflows of Resources</b>								
Deferred gain on refunding	81,269,853	88,783,069	96,296,284	103,809,499	108,300,657	105,907,267	112,080,430	-
Deferred amounts for swap terminations	57,089	61,895	84,205	106,515	240,839	270,150	299,461	4,373,886
Deferred capital contribution	-	-	-	5,960,000	-	-	-	-
Deferred pension amounts	-	31,311,922	-	-	-	20,254,690	18,316,430	43,342,798
Total Deferred Inflows of Resources	81,326,942	120,156,886	96,380,489	109,876,014	108,541,496	126,432,107	130,696,321	47,716,684
<b>Net Position (Deficit)</b>								
Net investment in capital assets	(336,552,993)	(194,715,306)	(302,012,473)	(351,218,780)	(228,867,586)	(49,720,885)	140,378,223	311,166,676
Restricted for construction	2,180,985	-	-	-	-	-	-	-
Restricted for debt service	147,436,260	123,414,653	114,544,694	105,282,969	146,977,835	125,235,904	134,125,957	178,591,676
Restricted for payment assistance program	4,652,563	12,318,423	11,043,109	8,988,078	8,001,369	5,771,110	5,336,117	3,504,148
Unrestricted	(49,298,656)	(160,316,797)	(33,707,455)	15,370,230	(126,936,239)	(260,040,893)	(382,675,290)	(507,946,380)
<b>TOTAL NET POSITION (DEFICIT)</b>	\$ (231,581,841)	\$ (219,299,027)	\$ (210,132,125)	\$ (221,577,503)	\$ (200,824,621)	\$ (178,754,764)	\$ (102,834,993)	\$ (14,683,880)

GLWA began operations on January 1, 2016. This schedule is being built prospectively. Ultimately, 10 years of data will be presented.

**GREAT LAKES WATER AUTHORITY**  
SCHEDULE OF NET POSITION - WATER FUND

	Fiscal Year							
	2023	2022	2021	2020	2019	2018	2017	2016
<b>Assets</b>								
Current Assets								
Cash and cash equivalents	\$ 222,625,550	\$ 147,191,020	\$ 162,766,427	\$ 88,786,996	148,643,793	\$ 310,085,221	\$ 266,483,138	\$ 155,712,891
Restricted cash and cash equivalents	127,679,570	49,069,747	65,677,030	39,304,453	68,564,311	51,097,342	60,753,268	53,028,844
Restricted cash for the benefit of DWSD	17,474,699	11,371,285	3,144,400	1,544,529	2,690,397	8,418,827	288,378	10,430
Investments	21,081,772	91,499,859	190,541,958	305,653,818	198,561,135	7,004,525	852,420	11,579,681
Restricted investments	9,975,144	30,711,544	2,932,400	30,900,352	1,468,148	1,234,954	1,169,187	27,818,000
Receivables								
Billed	55,359,908	54,169,640	48,694,817	38,769,605	38,336,701	38,272,740	36,459,563	37,629,170
Unbilled	33,527,694	30,349,758	30,066,884	31,032,237	26,144,348	29,229,709	29,539,433	32,307,945
Other	286,079	295,791	85,494	214,997	916,074	5,850	1,300	21,899,046
Allowance for doubtful accounts	(16,225,907)	(13,917,234)	(11,562,519)	(8,634,075)	(7,455,747)	(6,221,815)	(4,941,777)	(25,040,612)
Due from other governments	5,785,565	11,246,188	11,889,748	20,343,238	30,063,571	23,588,754	21,327,713	41,486,157
Due from other funds	1,032,754	2,328,086	2,786,344	2,134,191	2,876,954	330,293	-	-
Contractual obligation receivable	20,608,286	18,126,021	16,558,716	15,620,163	14,328,368	13,560,086	12,076,942	6,851,584
Prepaid items and other assets	10,795,086	8,701,487	7,601,239	6,458,613	5,647,661	3,265,972	2,437,047	2,183,690
Inventories	-	-	794,521	636,621	386,612	-	-	-
Total Current Assets	<u>510,006,200</u>	<u>441,143,192</u>	<u>531,977,459</u>	<u>572,765,738</u>	<u>531,172,326</u>	<u>479,872,458</u>	<u>426,446,612</u>	<u>365,466,826</u>
Noncurrent Assets								
Restricted cash and cash equivalents	96,480,165	2,773,291	2,519,127	20,491,397	32,154,262	18,261,706	177,939,494	5,460,942
Restricted investments	22,002,166	9,506,991	8,651,762	10,770,585	77,075,423	150,436,225	20,530,374	42,841,345
Contractual obligation receivable	544,820,801	549,493,189	552,093,376	554,942,283	468,481,719	477,039,443	483,604,380	466,317,666
Prepaid lease	11,250,000	11,250,000	11,250,000	11,250,000	11,250,000	11,250,000	11,250,000	-
Capital assets								
Nondepreciable/nonamortizable	670,557,112	567,414,021	498,010,970	418,996,654	467,830,218	434,684,895	452,185,674	415,558,090
Depreciated/amortized, net	1,330,639,811	1,384,312,298	1,418,773,460	1,487,915,510	1,492,118,136	1,604,038,058	1,587,291,603	1,728,054,410
Prepaid insurance on debt	<u>5,995,322</u>	<u>6,649,782</u>	<u>7,304,243</u>	<u>7,958,703</u>	<u>8,754,897</u>	<u>13,002,376</u>	<u>14,112,324</u>	<u>20,831,496</u>
Total Noncurrent Assets	<u>2,681,745,377</u>	<u>2,531,399,572</u>	<u>2,498,602,938</u>	<u>2,512,325,132</u>	<u>2,557,664,655</u>	<u>2,708,712,703</u>	<u>2,746,913,849</u>	<u>2,679,063,949</u>
Total Assets	<u>3,191,751,577</u>	<u>2,972,542,764</u>	<u>3,030,580,397</u>	<u>3,085,090,870</u>	<u>3,088,836,981</u>	<u>3,188,585,161</u>	<u>3,173,360,461</u>	<u>3,044,530,775</u>
<b>Deferred Outflows of Resources</b>								
Deferred charge on refunding	39,316,288	41,997,055	44,677,823	47,358,590	82,508,971	94,431,823	99,294,499	116,511,949
Deferred pension amounts	<u>17,107,308</u>	<u>10,810,800</u>	<u>22,112,642</u>	<u>15,292,494</u>	<u>11,369,496</u>	<u>18,645,719</u>	<u>21,491,506</u>	<u>13,620,562</u>
Total Deferred Outflows of Resources	<u>56,423,596</u>	<u>52,807,855</u>	<u>66,790,465</u>	<u>62,651,084</u>	<u>93,878,467</u>	<u>113,077,542</u>	<u>120,786,005</u>	<u>130,132,511</u>

	Fiscal Year							
	2023	2022	2021	2020	2019	2018	2017	2016
<b>Liabilities</b>								
Current Liabilities								
Accounts and contracts payable	\$ 60,207,304	\$ 56,890,771	\$ 53,039,330	\$ 43,231,679	36,657,714	\$ 33,754,534	\$ 36,751,842	\$ 49,474,527
Accrued salaries, wages and benefits	1,757,758	1,046,674	4,892,033	5,321,864	4,284,220	4,734,956	3,190,038	2,887,280
Accrued liabilities	25,111,216	15,261,427	6,958,556	5,357,056	6,481,670	12,679,692	1,353,816	875,796
Due to other governments	3,124,058	17,610,601	15,693,993	18,282,254	15,963,934	11,935,868	25,393,813	13,668,890
Due to other funds	2,214,714	-	162,368	-	12,568	3,447,927	-	65,971
Interest payable	41,789,634	36,398,995	36,621,768	30,887,915	40,325,682	39,322,324	39,329,322	37,226,125
Current portion of:								
Revenue bonds and loans	62,332,082	40,091,255	32,500,450	33,058,615	29,244,447	20,569,843	23,393,905	35,650,167
Raw water rights obligation	2,963,619	2,845,282	2,734,246	2,624,820	2,520,996	2,999,458	-	-
BC Note obligation	214,151	203,954	194,242	184,992	176,183	167,794	159,803	152,193
Regional system lease	5,928,467	5,686,745	5,454,878	5,232,465	5,019,121	4,814,476	4,618,174	4,429,876
Other liabilities	3,743,223	3,378,083	3,123,843	5,331,161	4,938,308	4,635,565	2,182,888	6,675,228
Total Current Liabilities	209,386,226	179,413,787	161,375,707	149,512,821	145,624,843	139,062,437	136,373,601	151,106,053
Noncurrent Liabilities								
Revenue bonds and loans	2,592,206,224	2,359,238,286	2,407,391,624	2,459,730,737	2,467,177,447	2,545,529,255	2,606,465,431	2,488,824,632
Raw water rights obligation	89,552,155	92,515,774	95,361,056	98,095,302	100,720,123	103,241,118	-	-
BC Note obligation	16,124,188	16,338,339	16,542,293	16,736,534	16,921,526	17,097,709	17,265,503	17,425,306
Regional system lease	394,167,195	400,095,662	405,782,406	411,237,284	416,469,750	421,488,871	426,303,346	430,921,520
Other liabilities	3,713,668	4,132,979	4,138,780	4,840,615	4,979,604	4,933,977	5,170,201	9,784,562
Net pension liability	22,645,805	23,379,480	51,728,179	47,643,374	47,310,460	64,151,352	69,569,044	61,021,079
Total Noncurrent Liabilities	3,118,409,235	2,895,700,520	2,980,944,338	3,038,283,846	3,053,578,910	3,156,442,282	3,124,773,525	3,007,977,099
Total Liabilities	3,327,795,461	3,075,114,307	3,142,320,045	3,187,796,667	3,199,203,753	3,295,504,719	3,261,147,126	3,159,083,152
Deferred Inflows of Resources								
Deferred gain on refunding	44,182,654	48,216,421	52,250,187	56,283,953	60,317,719	59,252,431	62,822,646	-
Deferred amounts for swap terminations	56,712	61,438	66,164	70,890	75,616	80,342	85,068	4,134,908
Deferred pension amounts	-	11,224,189	-	-	-	7,260,572	6,565,776	15,536,821
Total Deferred Inflows of Resources	44,239,366	59,502,048	52,316,351	56,354,843	60,393,335	66,593,345	69,473,490	19,671,729
Net Position (Deficit)								
Net investment in capital assets	(198,390,747)	(109,163,683)	(191,352,010)	(237,858,820)	(166,485,092)	(84,133,546)	(2,321,309)	90,778,518
Restricted for debt service	56,139,482	31,660,045	23,688,943	19,479,656	29,731,576	23,239,368	26,194,280	69,797,836
Restricted for payment assistance program	2,289,905	5,272,708	4,614,294	3,754,368	3,369,875	2,462,214	2,218,373	1,451,598
Unrestricted	16,101,706	(37,034,806)	65,783,239	118,215,240	56,502,001	(2,003,397)	(62,565,494)	(166,119,547)
TOTAL NET POSITION (DEFICIT)	\$ (123,859,654)	\$ (109,265,736)	\$ (97,265,534)	\$ (96,409,556)	\$ (76,881,640)	\$ (60,435,361)	\$ (36,474,150)	\$ (4,091,595)

GLWA began operations on January 1, 2016. This schedule is being built prospectively. Ultimately, 10 years of data will be presented.

**GREAT LAKES WATER AUTHORITY**  
**SCHEDULE OF NET POSITION - SEWAGE DISPOSAL FUND**

	Fiscal Year							
	2023	2022	2021	2020	2019	2018	2017	2016
<b>Assets</b>								
Current Assets								
Cash and cash equivalents	\$ 260,110,098	\$ 200,464,397	\$ 191,584,705	\$ 119,569,724	\$ 160,371,766	\$ 199,056,556	\$ 203,748,704	\$ 156,022,295
Restricted cash and cash equivalents	137,098,372	38,574,227	85,509,014	26,060,277	95,931,528	54,832,050	72,213,813	81,181,424
Restricted cash for the benefit of DWSD	24,989,273	9,098,348	2,919,797	-	627,919	-	-	51,648
Investments	42,159,523	93,709,233	132,388,013	167,895,196	75,685,362	9,506,712	1,430,608	32,041,080
Restricted investments	33,698,337	73,042,550	28,758,582	87,066,562	33,384,445	31,790,386	31,371,834	28,843,000
Receivables								
Billed	55,950,458	64,722,773	59,552,759	56,390,056	60,549,471	50,439,450	52,234,778	48,046,934
Unbilled	24,240,500	24,045,449	24,320,796	23,861,029	24,297,140	25,200,108	24,279,170	23,037,391
Other	115,479	996,875	489,412	95,376	221,452	3,723,036	3,157,050	92,748,989
Allowance for doubtful accounts	(42,620,781)	(42,906,498)	(39,321,754)	(36,357,891)	(34,802,168)	(32,863,001)	(30,410,232)	(98,968,630)
Due from other governments	6,095,717	2,208,272	1,351,111	11,459,398	179,585	24,339,106	29,461,328	66,202,143
Due from other funds	2,214,714	-	162,368	-	12,568	3,447,927	-	65,971
Contractual obligation receivable	16,060,725	15,403,674	14,637,184	14,041,327	12,089,779	11,253,800	11,262,300	5,077,675
Shortfall receivable - DWSD	-	-	8,296,578	18,206,431	17,542,669	9,367,355	-	-
Prepaid items and other assets	5,678,605	4,920,898	4,143,303	3,691,723	2,801,271	1,683,659	1,089,521	407,359
Inventories	10,649,496	8,366,771	7,000,631	6,370,587	5,445,981	8,471,626	8,509,454	9,984,063
Total Current Assets	<u>576,440,516</u>	<u>492,646,969</u>	<u>521,792,499</u>	<u>498,349,795</u>	<u>454,338,768</u>	<u>400,248,770</u>	<u>408,348,328</u>	<u>444,741,342</u>
Noncurrent Assets								
Restricted cash and cash equivalents	66,482,098	2,491,300	2,876,374	27,014,187	62,030,778	30,001,353	128,378,837	155,488,780
Restricted investments	112,322,569	31,184,328	29,882,148	29,048,921	73,903,089	143,261,763	81,177,748	62,186,734
Contractual obligation receivable	354,229,111	369,794,921	384,718,443	399,355,626	414,766,953	335,574,500	346,828,300	366,254,075
Shortfall receivable - DWSD	-	-	-	8,296,578	26,503,010	19,932,645	-	-
Prepaid lease	13,750,000	13,750,000	13,750,000	13,750,000	13,750,000	13,750,000	13,750,000	-
Capital assets								
Nondepreciable/nonamortizable	418,201,364	320,526,307	315,474,451	300,868,836	318,574,902	271,362,100	278,286,118	295,876,258
Depreciated/amortized, net	1,989,243,893	2,142,771,572	2,225,906,341	2,298,917,647	2,357,018,353	2,485,098,172	2,591,023,442	2,699,891,145
Prepaid insurance on debt	9,147,648	10,124,011	11,053,199	12,030,061	13,880,254	16,931,255	18,581,897	27,822,085
Total Noncurrent Assets	<u>2,963,376,683</u>	<u>2,890,642,439</u>	<u>2,983,660,956</u>	<u>3,089,281,856</u>	<u>3,280,427,339</u>	<u>3,315,911,788</u>	<u>3,458,026,342</u>	<u>3,607,519,077</u>
Total Assets	<u>3,539,817,199</u>	<u>3,383,289,408</u>	<u>3,505,453,455</u>	<u>3,587,631,651</u>	<u>3,734,766,107</u>	<u>3,716,160,558</u>	<u>3,866,374,670</u>	<u>4,052,260,419</u>
<b>Deferred Outflows of Resources</b>								
Deferred charge on refunding	94,632,191	110,341,248	118,709,227	127,077,205	159,370,167	186,544,140	198,351,942	212,147,508
Deferred pension amounts	30,616,652	19,347,900	39,574,610	27,368,710	20,347,789	33,369,917	38,462,972	24,376,481
Total Deferred Outflows of Resources	<u>125,248,843</u>	<u>129,689,148</u>	<u>158,283,837</u>	<u>154,445,915</u>	<u>179,717,956</u>	<u>219,914,057</u>	<u>236,814,914</u>	<u>236,523,989</u>

	Fiscal Year							
	2023	2022	2021	2020	2019	2018	2017	2016
<b>Liabilities</b>								
Current Liabilities								
Accounts and contracts payable	\$ 53,101,194	\$ 37,488,263	\$ 32,182,085	\$ 30,838,950	\$ 38,004,322	\$ 34,077,602	\$ 27,546,558	\$ 36,152,087
Accrued salaries, wages and benefits	305,601	1,013,356	1,136,565	-	-	-	-	-
Accrued liabilities	28,840,076	9,743,206	4,615,255	-	627,919	-	898,800	674,458
Due to other governments	3,750,000	3,750,000	3,750,000	1,750,000	-	47,539	35,848,573	24,225,013
Due to other funds	1,032,754	2,328,086	2,786,344	2,134,191	2,876,954	330,293	-	-
Interest payable	40,400,733	34,566,553	35,189,612	27,565,045	44,130,602	41,108,994	41,011,198	43,912,888
Current portion of:								
Revenue bonds and loans	87,393,258	87,312,545	87,409,283	88,939,460	88,357,662	61,186,207	65,920,307	60,902,189
BC Note obligation	481,694	458,756	436,911	416,105	396,291	377,419	359,448	342,331
Regional system lease	7,245,904	6,950,466	6,667,073	6,395,235	6,134,481	5,884,359	5,644,435	5,414,293
Other liabilities	25,439,622	3,435,863	2,743,360	1,049,422	813,439	1,051,478	4,531,322	1,114,045
Total Current Liabilities	247,990,836	187,047,094	176,916,488	159,088,408	181,341,670	144,063,891	181,760,641	172,737,304
Noncurrent Liabilities								
Revenue bonds and loans	2,899,287,729	2,790,722,856	2,912,505,035	3,015,182,999	3,163,394,353	3,168,566,028	3,236,016,730	3,387,291,190
BC Note obligation	36,268,418	36,750,113	37,208,869	37,645,781	38,061,886	38,458,178	38,835,597	39,195,045
Regional system lease	481,759,905	489,005,809	495,956,275	502,623,348	509,018,588	515,153,064	521,037,424	526,681,859
Other liabilities	29,864,963	16,989,290	17,376,059	13,917,291	13,791,681	13,503,540	6,170,701	36,217,981
Net pension liability	40,528,802	41,841,847	92,577,019	85,266,515	84,670,705	114,810,555	124,506,503	109,208,359
Total Noncurrent Liabilities	3,487,709,817	3,375,309,915	3,555,623,257	3,654,635,934	3,808,937,213	3,850,491,365	3,926,566,955	4,098,594,434
Total Liabilities	3,735,700,653	3,562,357,009	3,732,539,745	3,813,724,342	3,990,278,883	3,994,555,256	4,108,327,596	4,271,331,738
<b>Deferred Inflows of Resources</b>								
Deferred gain on refunding	37,087,199	40,566,648	44,046,097	47,525,546	47,982,938	46,654,836	49,257,784	-
Deferred amounts for swap terminations	377	457	18,041	35,625	165,223	189,808	214,393	238,978
Deferred capital contribution	-	-	-	5,960,000	-	-	-	-
Deferred pension amounts	-	20,087,733	-	-	-	12,994,118	11,750,654	27,805,977
Total Deferred Inflows of Resources	37,087,576	60,654,838	44,064,138	53,521,171	48,148,161	59,838,762	61,222,831	28,044,955
<b>Net Position (Deficit)</b>								
Net investment in capital assets	(138,162,246)	(85,551,623)	(110,660,463)	(113,359,960)	(62,382,494)	34,412,661	142,699,532	220,388,158
Restricted for construction	2,180,985	-	-	-	-	-	-	-
Restricted for debt service	91,296,778	91,754,608	90,855,751	85,803,313	117,246,259	101,996,536	107,931,677	108,793,840
Restricted for payment assistance program	2,362,658	7,045,715	6,428,815	5,233,710	4,631,494	3,308,896	3,117,744	2,052,550
Unrestricted	(65,400,362)	(123,281,991)	(99,490,694)	(102,845,010)	(183,438,240)	(258,037,496)	(320,109,796)	(341,826,833)
<b>TOTAL NET POSITION (DEFICIT)</b>	<u>\$ (107,722,187)</u>	<u>\$ (110,033,291)</u>	<u>\$ (112,866,591)</u>	<u>\$ (125,167,947)</u>	<u>\$ (123,942,981)</u>	<u>\$ (118,319,403)</u>	<u>\$ (66,360,843)</u>	<u>\$ (10,592,285)</u>

GLWA began operations on January 1, 2016. This schedule is being built prospectively. Ultimately, 10 years of data will be presented.



**GREAT LAKES WATER AUTHORITY**  
**CHANGES IN NET POSITION - BUSINESS-TYPE ACTIVITIES**

	Fiscal Year							
	2023	2022	2021	2020	2019	2018	2017	2016*
<b>Operating Revenues</b>								
Wholesale customer charges	\$ 616,511,308	\$ 591,839,582	\$ 589,991,584	\$ 578,705,063	\$ 584,171,596	\$ 592,096,175	\$ 594,426,876	\$ 281,883,522
Local system charges	213,876,500	210,359,500	209,885,200	207,102,800	201,340,700	194,099,800	202,794,400	102,660,400
Industrial waste charges	8,393,103	8,300,278	8,004,939	7,854,593	9,106,274	14,334,979	14,381,106	6,910,192
Pollutant surcharges	4,894,567	5,181,816	6,719,964	6,448,508	5,932,550	6,908,404	5,206,294	2,423,910
Bad debt recovery	-	-	-	-	-	-	40,172,155	-
Other revenues	2,011,011	663,953	766,943	778,257	527,663	4,455,345	576,195	4,252,477
<b>Total Operating Revenues</b>	<b>845,686,489</b>	<b>816,345,129</b>	<b>815,368,630</b>	<b>800,889,221</b>	<b>801,078,783</b>	<b>811,894,703</b>	<b>857,557,026</b>	<b>398,130,501</b>
<b>Operating Expenses</b>								
Personnel	114,808,018	107,053,390	106,945,131	104,266,420	98,588,599	95,525,457	86,156,304	21,590,763
Contractual services	116,946,973	114,094,006	103,324,025	109,448,358	101,743,758	99,877,310	90,135,859	17,179,869
Utilities	77,276,536	59,655,751	52,749,654	51,152,735	51,395,385	53,694,380	55,661,469	25,037,499
Chemicals	30,542,063	20,382,163	13,982,136	14,241,843	13,275,860	12,877,813	14,765,181	6,451,484
Supplies and other expenses	34,571,711	29,069,352	31,097,071	35,427,273	37,120,915	34,526,388	20,162,690	17,903,355
Capital adjustment	-	-	-	26,780	2,258,351	-	-	-
Capital program allocation	(2,189,642)	(2,632,136)	(3,191,809)	(3,347,401)	(3,380,755)	(1,683,450)	(2,128,078)	-
Intergovernmental reimbursements	(5,132,485)	(2,887,881)	(3,166,692)	(1,733,710)	(7,139,362)	(9,908,111)	(11,704,210)	-
Centralized services	-	-	-	-	-	-	-	35,228,282
Administrative services	-	-	-	-	-	-	-	10,534,428
Depreciation	289,956,600	281,209,656	274,043,606	280,104,195	309,115,490	331,242,398	329,766,377	157,316,574
Amortization of intangible assets	4,006,368	4,006,368	3,676,590	3,566,664	3,566,664	2,080,554	-	-
<b>Total Operating Expenses</b>	<b>660,786,142</b>	<b>609,950,669</b>	<b>579,459,712</b>	<b>593,153,157</b>	<b>606,544,905</b>	<b>618,232,739</b>	<b>582,815,592</b>	<b>291,242,254</b>
<b>Operating Income</b>	<b>184,900,347</b>	<b>206,394,460</b>	<b>235,908,918</b>	<b>207,736,064</b>	<b>194,533,878</b>	<b>193,661,964</b>	<b>274,741,434</b>	<b>106,888,247</b>
<b>Nonoperating Revenues (Expenses)</b>								
Earnings (loss) on investments	37,601,830	(5,384,278)	1,259,624	25,416,706	26,517,802	11,395,785	4,042,790	1,481,398
Interest on obligations receivable	41,059,361	42,264,765	43,722,511	42,434,884	41,777,702	38,856,520	42,332,428	21,062,500
Interest expense	(271,291,054)	(256,196,504)	(263,485,014)	(288,947,856)	(296,597,333)	(300,395,306)	(291,592,097)	(148,447,442)
Amortization of debt related items and COI	3,998,310	13,318,015	12,965,639	10,302,560	3,995,230	8,684,285	(14,937,182)	2,055,724
Legacy pension recovery (expense)	20,765,202	(13,915,303)	(22,527,961)	(20,143,505)	16,778,381	(24,922,162)	(7,021,006)	-
Water Residential Assistance Program	(12,342,512)	(2,792,837)	(1,517,453)	(3,315,117)	(2,024,119)	(3,755,534)	(2,127,333)	-
Other	1,752,328	153,741	(840,886)	(196,618)	(524,198)	554,677	379,409	275,693
Discontinued capital projects	(20,902,626)	-	-	-	-	-	-	-
Sewer lookback - MOU adjustment	-	-	-	-	(6,527,200)	-	-	-
<b>Total Nonoperating Expenses</b>	<b>(199,359,161)</b>	<b>(222,552,401)</b>	<b>(230,423,540)</b>	<b>(234,448,946)</b>	<b>(216,603,735)</b>	<b>(269,581,735)</b>	<b>(268,922,991)</b>	<b>(123,572,127)</b>
<b>Income (loss) before capital contributions and special item</b>	<b>(14,458,814)</b>	<b>(16,157,941)</b>	<b>5,485,378</b>	<b>(26,712,882)</b>	<b>(22,069,857)</b>	<b>(75,919,771)</b>	<b>5,818,443</b>	<b>(16,683,880)</b>
<b>Capital Contributions</b>	<b>2,176,000</b>	<b>6,991,039</b>	<b>5,960,000</b>	<b>5,960,000</b>	<b>-</b>	<b>-</b>	<b>320,707</b>	<b>2,000,000</b>
<b>Special Item - MOU with DWSD</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>(94,290,263)</b>	<b>-</b>
<b>Change in Net Position</b>	<b>(12,282,814)</b>	<b>(9,166,902)</b>	<b>11,445,378</b>	<b>(20,752,882)</b>	<b>(22,069,857)</b>	<b>(75,919,771)</b>	<b>(88,151,113)</b>	<b>(14,683,880)</b>
NET POSITION (DEFICIT), Beginning of Year	(219,299,027)	(210,132,125)	(221,577,503)	(200,824,621)	(178,754,764)	(102,834,993)	(14,683,880)	-
<b>NET POSITION (DEFICIT), END OF YEAR</b>	<b>\$ (231,581,841)</b>	<b>\$ (219,299,027)</b>	<b>\$ (210,132,125)</b>	<b>\$ (221,577,503)</b>	<b>\$ (200,824,621)</b>	<b>\$ (178,754,764)</b>	<b>\$ (102,834,993)</b>	<b>\$ (14,683,880)</b>

\* GLWA began operations on January 1, 2016. The data for FY 2016 relates to six months of activity through June 30, 2016.

This schedule is being built prospectively. Ultimately, 10 years of data will be presented.

**GREAT LAKES WATER AUTHORITY**  
CHANGES IN NET POSITION - WATER FUND

	Fiscal Year							
	2023	2022	2021	2020	2019	2018	2017	2016*
<b>Operating Revenues</b>								
Wholesale customer charges	\$ 340,593,806	\$ 323,026,213	\$ 322,423,768	\$ 312,701,777	\$ 311,399,136	\$ 323,117,344	\$ 331,115,131	\$ 160,777,169
Local system charges	22,834,300	21,697,300	21,925,500	21,295,500	20,181,400	15,130,600	15,490,300	6,833,500
Bad debt recovery	-	-	-	-	-	-	5,107,125	-
Other revenues	350,991	234,462	265,822	256,300	21,340	64,200	37,388	54,863
<b>Total Operating Revenues</b>	<b>363,779,097</b>	<b>344,957,975</b>	<b>344,615,090</b>	<b>334,253,577</b>	<b>331,601,876</b>	<b>338,312,144</b>	<b>351,749,944</b>	<b>167,665,532</b>
<b>Operating Expenses</b>								
Personnel	48,855,342	44,892,622	43,889,495	43,946,225	42,085,546	41,845,295	38,261,393	8,301,022
Contractual services	52,817,187	50,683,897	40,410,811	46,097,405	43,083,078	35,794,549	34,257,419	3,304,113
Utilities	33,436,545	28,725,292	28,828,226	27,719,754	26,247,858	26,871,081	28,469,603	12,368,557
Chemicals	12,689,666	7,788,784	6,028,141	5,569,437	5,088,827	4,804,768	5,340,753	2,444,543
Supplies and other expenses	11,926,150	9,157,367	9,158,990	12,034,192	11,797,279	9,543,615	7,982,562	1,440,644
Capital adjustment	-	-	-	26,780	-	-	-	-
Capital program allocation	(1,172,302)	(1,618,459)	(2,123,060)	(2,164,003)	(2,054,913)	(713,779)	(977,762)	-
Intergovernmental reimbursements	(3,385,540)	(1,813,535)	(2,554,511)	(696,952)	(6,425,729)	(9,615,146)	(11,603,019)	-
Centralized services	-	-	-	-	-	-	-	18,494,851
Administrative services	-	-	-	-	-	-	-	3,191,929
Depreciation	126,485,762	123,196,027	123,271,541	127,183,228	140,571,120	143,991,815	144,137,912	71,295,545
Amortization of intangible asset	3,566,664	3,566,664	3,566,664	3,566,664	3,566,664	2,080,554	-	-
<b>Total Operating Expenses</b>	<b>285,219,474</b>	<b>264,578,659</b>	<b>250,476,297</b>	<b>263,282,730</b>	<b>263,959,730</b>	<b>254,602,752</b>	<b>245,868,861</b>	<b>120,841,204</b>
<b>Operating Income</b>	<b>78,559,623</b>	<b>80,379,316</b>	<b>94,138,793</b>	<b>70,970,847</b>	<b>67,642,146</b>	<b>83,709,392</b>	<b>105,881,083</b>	<b>46,824,328</b>
<b>Nonoperating Revenues (Expenses)</b>								
Earnings (loss) on investments	16,724,485	(2,361,396)	768,918	13,744,774	14,754,401	6,129,530	1,832,918	392,031
Interest on obligations receivable	24,662,083	25,107,207	25,474,904	22,945,866	22,921,380	23,351,220	25,269,750	12,231,250
Interest expense	(131,161,860)	(125,086,379)	(128,257,367)	(133,537,621)	(136,704,033)	(139,343,204)	(132,434,945)	(65,958,095)
Amortization of debt related items and COI	14,577,852	15,610,434	15,988,278	14,258,569	10,771,937	13,837,585	2,403,018	2,418,891
Legacy pension recovery (expense)	7,443,572	(4,988,132)	(8,075,457)	(7,220,716)	6,014,441	(8,933,691)	(2,516,776)	-
Water Residential Assistance Program	(5,023,436)	(1,049,908)	(593,206)	(1,393,179)	(855,455)	(1,506,554)	(884,327)	-
Other	526,389	388,656	(300,841)	703,544	(991,096)	(1,205,489)	878,305	-
Discontinued capital projects	(20,902,626)	-	-	-	-	-	-	-
<b>Total Nonoperating Expenses</b>	<b>(93,153,541)</b>	<b>(92,379,518)</b>	<b>(94,994,771)</b>	<b>(90,498,763)</b>	<b>(84,088,425)</b>	<b>(107,670,603)</b>	<b>(105,452,057)</b>	<b>(50,915,923)</b>
<b>Income (loss) before special item</b>	<b>(14,593,918)</b>	<b>(12,000,202)</b>	<b>(855,978)</b>	<b>(19,527,916)</b>	<b>(16,446,279)</b>	<b>(23,961,211)</b>	<b>429,026</b>	<b>(4,091,595)</b>
<b>Special Item - MOU with DWSD</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>(32,811,581)</b>	<b>-</b>
<b>Change in Net Position</b>	<b>(14,593,918)</b>	<b>(12,000,202)</b>	<b>(855,978)</b>	<b>(19,527,916)</b>	<b>(16,446,279)</b>	<b>(23,961,211)</b>	<b>(32,382,555)</b>	<b>(4,091,595)</b>
NET POSITION (DEFICIT), Beginning of Year	(109,265,736)	(97,265,534)	(96,409,556)	(76,881,640)	(60,435,361)	(36,474,150)	(4,091,595)	-
<b>NET POSITION (DEFICIT), END OF YEAR</b>	<b>\$ (123,859,654)</b>	<b>\$ (109,265,736)</b>	<b>\$ (97,265,534)</b>	<b>\$ (96,409,556)</b>	<b>\$ (76,881,640)</b>	<b>\$ (60,435,361)</b>	<b>\$ (36,474,150)</b>	<b>\$ (4,091,595)</b>

\* GLWA began operations on January 1, 2016. The data for FY 2016 relates to six months of activity through June 30, 2016.

This schedule is being built prospectively. Ultimately, 10 years of data will be presented.

**GREAT LAKES WATER AUTHORITY**  
CHANGES IN NET POSITION - SEWAGE DISPOSAL FUND

	Fiscal Year							
	2023	2022	2021	2020	2019	2018	2017	2016*
<b>Operating Revenues</b>								
Wholesale customer charges	\$ 275,917,502	\$ 268,813,369	\$ 267,567,816	\$ 266,003,286	\$ 272,772,460	\$ 268,978,831	\$ 263,311,745	\$ 121,106,353
Local system charges	191,042,200	188,662,200	187,959,700	185,807,300	181,159,300	178,969,200	187,304,100	95,826,900
Industrial waste charges	8,393,103	8,300,278	8,004,939	7,854,593	9,106,274	14,334,979	14,381,106	6,910,192
Pollutant surcharges	4,894,567	5,181,816	6,719,964	6,448,508	5,932,550	6,908,404	5,206,294	2,423,910
Bad debt recovery	-	-	-	-	-	-	35,065,030	-
Other revenues	1,660,020	429,491	501,121	521,957	506,323	4,391,145	538,807	4,197,614
<b>Total Operating Revenues</b>	<b>481,907,392</b>	<b>471,387,154</b>	<b>470,753,540</b>	<b>466,635,644</b>	<b>469,476,907</b>	<b>473,582,559</b>	<b>505,807,082</b>	<b>230,464,969</b>
<b>Operating Expenses</b>								
Personnel	65,952,676	62,160,768	63,055,636	60,320,195	56,503,053	53,680,162	47,894,911	13,289,741
Contractual services	64,129,786	63,410,109	62,913,214	63,350,953	58,660,680	64,082,761	55,878,440	13,875,756
Utilities	43,839,991	30,930,459	23,921,428	23,432,981	25,147,527	26,823,299	27,191,866	12,668,942
Chemicals	17,852,397	12,593,379	7,953,995	8,672,406	8,187,033	8,073,045	9,424,428	4,006,941
Supplies and other expenses	22,645,561	19,911,985	21,938,081	23,393,081	25,323,636	24,982,773	12,180,128	16,462,711
Capital adjustment	-	-	-	-	2,258,351	-	-	-
Capital program allocation	(1,017,340)	(1,013,677)	(1,068,749)	(1,183,398)	(1,325,842)	(969,671)	(1,150,316)	-
Intergovernmental reimbursements	(1,746,945)	(1,074,346)	(612,181)	(1,036,758)	(713,633)	(292,965)	(101,191)	-
Centralized services	-	-	-	-	-	-	-	16,733,431
Administrative services	-	-	-	-	-	-	-	7,342,499
Depreciation	163,470,838	158,013,629	150,772,065	152,920,967	168,544,370	187,250,583	185,628,465	86,021,029
Amortization of intangible assets	439,704	439,704	109,926	-	-	-	-	-
<b>Total Operating Expenses</b>	<b>375,566,668</b>	<b>345,372,010</b>	<b>328,983,415</b>	<b>329,870,427</b>	<b>342,585,175</b>	<b>363,629,987</b>	<b>336,946,731</b>	<b>170,401,050</b>
<b>Operating Income</b>	<b>106,340,724</b>	<b>126,015,144</b>	<b>141,770,125</b>	<b>136,765,217</b>	<b>126,891,732</b>	<b>109,952,572</b>	<b>168,860,351</b>	<b>60,063,919</b>
<b>Nonoperating Revenues (Expenses)</b>								
Earnings (loss) on investments	20,877,345	(3,022,882)	490,706	11,671,932	11,763,401	5,266,255	2,209,872	1,089,367
Interest on obligations receivable	16,397,278	17,157,558	18,247,607	19,489,018	18,856,322	15,505,300	17,062,678	8,831,250
Interest expense	(140,129,194)	(131,110,125)	(135,227,647)	(155,410,235)	(159,893,300)	(161,052,102)	(159,157,152)	(82,489,347)
Amortization of debt related items and COI	(10,579,542)	(2,292,419)	(3,022,639)	(3,956,009)	(6,776,707)	(5,153,300)	(17,340,200)	(363,167)
Legacy pension recovery (expense)	13,321,630	(8,927,171)	(14,452,504)	(12,922,789)	10,763,940	(15,988,471)	(4,504,230)	-
Water Residential Assistance Program	(7,319,076)	(1,742,929)	(924,247)	(1,921,938)	(1,168,664)	(2,248,980)	(1,243,006)	-
Other	1,225,939	(234,915)	(540,045)	(900,162)	466,898	1,760,166	(498,896)	275,693
Discontinued capital projects	-	-	-	-	-	-	-	-
Sewer lookback - MOU adjustment	-	-	-	-	(6,527,200)	-	-	-
<b>Total Nonoperating Expenses</b>	<b>(106,205,620)</b>	<b>(130,172,883)</b>	<b>(135,428,769)</b>	<b>(143,950,183)</b>	<b>(132,515,310)</b>	<b>(161,911,132)</b>	<b>(163,470,934)</b>	<b>(72,656,204)</b>
<b>Income (loss) before capital contributions and special item</b>	<b>135,104</b>	<b>(4,157,739)</b>	<b>6,341,356</b>	<b>(7,184,966)</b>	<b>(5,623,578)</b>	<b>(51,958,560)</b>	<b>5,389,417</b>	<b>(12,592,285)</b>
<b>Capital Contributions</b>	<b>2,176,000</b>	<b>6,991,039</b>	<b>5,960,000</b>	<b>5,960,000</b>	<b>-</b>	<b>-</b>	<b>320,707</b>	<b>2,000,000</b>
<b>Special Item - MOU with DWSD</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>(61,478,682)</b>	<b>-</b>
<b>Change in Net Position</b>	<b>2,311,104</b>	<b>2,833,300</b>	<b>12,301,356</b>	<b>(1,224,966)</b>	<b>(5,623,578)</b>	<b>(51,958,560)</b>	<b>(55,768,558)</b>	<b>(10,592,285)</b>
NET POSITION (DEFICIT), Beginning of Year	(110,033,291)	(112,866,591)	(125,167,947)	(123,942,981)	(118,319,403)	(66,360,843)	(10,592,285)	-
<b>NET POSITION (DEFICIT), END OF YEAR</b>	<b>\$ (107,722,187)</b>	<b>\$ (110,033,291)</b>	<b>\$ (112,866,591)</b>	<b>\$ (125,167,947)</b>	<b>\$ (123,942,981)</b>	<b>\$ (118,319,403)</b>	<b>\$ (66,360,843)</b>	<b>\$ (10,592,285)</b>

\* GLWA began operations on January 1, 2016. The data for FY 2016 relates to six months of activity through June 30, 2016.

This schedule is being built prospectively. Ultimately, 10 years of data will be presented.

## **REVENUE CAPACITY**

Revenue capacity information is intended to show the factors affecting the Authority's ability to generate its own-source revenue.

**GREAT LAKES WATER AUTHORITY**  
**CHARGE ADJUSTMENTS**  
As Originally Adopted by the Board of Directors

Schedule 6

	Fiscal Year								
	2024	2023	2022	2021	2020	2019	2018	2017	2016 [5]
<b>Water Fund</b>									
Budgeted revenue requirement [1]	\$ 370,314,500	\$ 356,071,600	\$ 344,030,500	\$ 341,642,000	\$ 339,664,200	\$ 331,400,500	\$ 328,119,300	\$ 331,213,200	\$ 318,474,200
Percent change in budgeted revenue requirement	4.0%	3.5%	0.7%	0.6%	2.5%	1.0%	-0.9%	4.0%	4.0%
Average annual charge adjustment [2]									
Total regional system	2.75%	3.7%	1.5%	3.2%	0.6%	1.8%	1.8%	4.5%	n/a [6]
Suburban wholesale	2.1%	3.5%	1.9%	3.1%	0.3%	0.2%	2.0%	3.4%	11.3%
Local system charge [3]	6.2%	3.0%	-2.0%	3.0%	2.7%	14.1%	-1.0%	11.6%	n/a [6]
Number of wholesale water customers [4]	87	87	87	87	87	87	87	88	85
<b>Sewage Disposal Fund</b>									
Budgeted revenue requirement [1]	\$ 500,627,000	\$ 481,372,100	\$ 475,429,200	\$ 486,751,300	\$ 480,605,300	\$ 470,156,000	\$ 465,500,100	\$ 464,078,500	\$ 446,229,300
Percent change in budgeted revenue requirement	4.0%	1.3%	-2.3%	1.3%	2.2%	1.0%	0.3%	4.0%	4.0%
Average annual charge adjustment [2]									
Total regional system	2.75%	2.4%	-0.6%	2.0%	0.8%	0.1%	-0.7%	8.3%	n/a [6]
Suburban wholesale	2.6%	3.2%	-0.1%	1.7%	-0.1%	1.3%	1.8%	4.9%	-1.1%
Local system charge [3]	2.8%	1.2%	-0.7%	2.3%	2.5%	1.2%	-4.2%	13.9%	n/a [6]
Number of wholesale sewer customers [4]	18	18	18	18	18	18	18	18	21

[1] This is the revenue requirements in the original adopted budget for the fiscal year which is used in the calculation of charges. The revenue requirement represents the funding requirements which are defined in the Master Bond Ordinance.

[2] Average annual charge adjustment percentages is the required charge adjustment required when calculating revenue with the prior year existing charges, usage projections and any other specific individual contract requirements. For the sewage disposal system, this also includes the bad debt adjustment.

[3] Represents the annual change in the local system charges to the Detroit customer class before the annual credit of \$20.7 million for water and \$5.5 million for sewer. Does not include any lookback charges in the percentage increase/decrease calculation. Does not include any Detroit local system operating costs or charges included in the Detroit retail rate. Also does not include any impact of Detroit's use of the regional system lease payment to finance allocated debt service obligations.

[4] Does not include the City of Detroit. The water system includes one emergency basis contract.

[5] GLWA began operations on January 1, 2016. Amounts in this column are based on annual budget of Detroit Water and Sewage Department for FY 2016 which was the basis for the revenue requirement for the six months of operations of GLWA.

[6] Due to the establishment of the Authority and DWSD as separate entities during FY 2016, this information is not applicable.

Source: Great Lakes Water Authority Financial Services Area and the Foster Group

This schedule is being built prospectively. Ultimately, 10 years of data will be presented.

## GREAT LAKES WATER AUTHORITY

## WATER FUND OPERATING REVENUES/ LARGEST WATER CUSTOMERS

	Fiscal Year							
	2023	2022	2021	2020	2019	2018	2017	2016*
<b>Operating Revenues</b>								
Suburban wholesale charges [1]	\$ 340,593,806	\$ 323,026,213	\$ 322,423,768	\$ 312,701,777	\$ 311,399,136	\$ 323,117,344	\$ 331,115,131	\$ 160,777,169
Local system charges	22,834,300	21,697,300	21,925,500	21,295,500	20,181,400	15,130,600	15,490,300	6,833,500
Bad debt recovery	-	-	-	-	-	-	5,107,125	-
Other revenue	350,991	234,462	265,822	256,300	21,340	64,200	37,388	54,863
<b>Total Operating Revenues</b>	<b>\$ 363,779,097</b>	<b>\$ 344,957,975</b>	<b>\$ 344,615,090</b>	<b>\$ 334,253,577</b>	<b>\$ 331,601,876</b>	<b>\$ 338,312,144</b>	<b>\$ 351,749,944</b>	<b>\$ 167,665,532</b>
Suburban wholesale charges % of total operating revenue	93.63%	93.64%	93.56%	93.55%	93.91%	95.51%	94.13%	95.89%
Local system charges % of total operating revenue	6.28%	6.29%	6.36%	6.37%	6.09%	4.47%	4.40%	4.08%
<b>Ten Largest Suburban Wholesale Member Partners</b>								
Southeast Oakland County								
Water Authority	\$ 25,534,464	\$ 24,035,255	\$ 23,722,602	\$ 23,089,967	\$ 23,311,743	\$ 23,118,160	\$ 22,434,129	\$ 11,160,701
North Oakland County Water Authority	24,485,805	22,798,372	22,667,931	22,293,795	23,464,096	23,365,866	22,913,261	11,105,152
Sterling Heights	16,661,863	16,235,356	16,375,729	15,242,912	14,644,368	15,571,146	15,480,008	7,155,303
Shelby Township	16,043,316	14,885,135	15,690,553	14,482,451	13,719,053	13,554,398	13,462,808	6,114,243
Troy	14,538,261	13,811,983	14,324,990	13,607,770	13,700,093	13,842,135	13,939,815	6,058,667
Macomb Township	14,279,105	13,065,395	13,388,385	12,870,377	11,063,225	11,167,739	10,945,117	-
Livonia	12,383,989	11,860,410	11,806,151	11,553,730	14,001,058	13,669,376	13,483,657	6,223,290
West Bloomfield Township	11,824,605	11,229,363	11,010,166	-	10,733,617	-	-	-
Canton Township	11,802,563	-	10,919,607	10,491,407	-	13,334,615	13,872,584	6,032,404
Ypsilanti Community Utilities Authority	11,464,455	11,059,703	-	10,450,861	-	11,038,134	-	-
Warren	-	10,940,909	-	-	10,648,162	-	-	-
Flint [2]	-	-	10,980,526	10,325,345	11,604,504	12,235,483	13,256,330	6,738,009
Genesee County Drain Commission [3]	-	-	-	-	-	-	18,493,530	8,593,304
Novi	-	-	-	-	-	-	-	5,595,031
<b>Total Revenue Ten Largest Suburban Wholesale Member Partners</b>	<b>\$ 159,018,426</b>	<b>\$ 149,921,881</b>	<b>\$ 150,886,640</b>	<b>\$ 144,408,615</b>	<b>\$ 146,889,919</b>	<b>\$ 150,897,052</b>	<b>\$ 158,281,239</b>	<b>\$ 74,776,104</b>
Ten largest suburban wholesale member partners % of total operating revenues	43.71%	43.46%	43.78%	43.20%	44.30%	44.60%	45.00%	44.60%

[1] Net of bad debt expense.

[2] Represents billed revenues prior to the credit to Flint for its proportional share of KWA debt service.

[3] Genesee County Drain Commission changed service providers in December 2017 and has contracted GLWA for as needed emergency water service.

\* GLWA began operations on January 1, 2016. The data for 2016 is for the six months of activity through June 30, 2016.

This schedule is being built prospectively. Ultimately, 10 years of data will be presented.

## GREAT LAKES WATER AUTHORITY

## SEWAGE DISPOSAL FUND OPERATING REVENUES/ LARGEST SEWER CUSTOMERS

	Fiscal Year							
	2023	2022	2021	2020	2019	2018	2017	2016*
<b>Operating Revenues</b>								
Suburban wholesale charges [1]	\$ 275,917,502	\$ 268,813,369	\$ 267,567,816	\$ 266,003,286	\$ 272,772,460	\$ 268,978,831	\$ 263,311,745	\$ 121,106,353
Local system charges	191,042,200	188,662,200	187,959,700	185,807,300	181,159,300	178,969,200	187,304,100	95,826,900
Industrial waste and surcharges	13,287,670	13,482,094	14,724,903	14,303,101	15,038,824	21,243,383	19,587,400	9,334,102
Bad debt recovery	-	-	-	-	-	-	35,065,030	-
Other revenue	1,660,020	429,491	501,121	521,957	506,323	4,391,145	538,807	4,197,614
<b>Total Operating Revenues</b>	<b>\$ 481,907,392</b>	<b>\$ 471,387,154</b>	<b>\$ 470,753,540</b>	<b>\$ 466,635,644</b>	<b>\$ 469,476,907</b>	<b>\$ 473,582,559</b>	<b>\$ 505,807,082</b>	<b>\$ 230,464,969</b>
Suburban wholesale charges % of total operating revenue	57.26%	57.03%	56.84%	57.00%	58.10%	56.80%	52.06%	52.55%
Local system charges % of total operating revenue	39.64%	40.02%	39.93%	39.82%	38.59%	37.79%	37.03%	41.58%
<b>Ten Largest Suburban Wholesale Member Partners</b>								
Oakland-Macomb Interceptor								
Drainage District	\$ 71,614,874	\$ 70,683,993	\$ 70,355,029	\$ 69,870,786	\$ 77,533,200	\$ 72,816,000	\$ 69,627,600	\$ 34,541,400
Wayne County - Rouge Valley	55,930,800	55,267,200	54,536,400	54,162,000	53,761,200	55,022,400	55,486,800	25,901,400
Oakland County - George W Kuhn								
Drainage District	46,377,600	45,828,000	45,558,000	45,264,000	44,972,400	45,751,200	45,682,800	21,410,400
Evergreen Farmington	36,195,600	35,766,000	35,084,400	34,839,600	34,578,000	33,733,200	32,179,200	15,094,200
Southeast Macomb Sanitary District	25,070,400	24,772,800	25,000,800	24,837,600	24,672,000	24,637,200	24,120,000	11,501,400
Dearborn	20,299,200	20,058,000	19,628,400	19,502,400	19,372,800	19,628,400	19,603,200	8,049,000
Highland Park	5,420,400	5,356,800	5,708,400	5,670,000	5,614,800	5,642,400	5,818,800	2,808,600
Hamtramck	4,041,600	3,993,600	4,019,400	3,994,800	3,962,400	3,958,800	4,086,000	1,966,800
Grosse Pointe Farms	2,748,000	2,715,600	2,769,000	2,750,400	2,727,600	2,696,400	2,667,600	1,243,800
Grosse Pointe Park	1,904,400	1,882,800	1,824,000	1,812,000	1,801,200	1,740,000	1,626,000	746,400
<b>Total Revenue Ten Largest Suburban Wholesale Member Partners</b>	<b>\$ 269,602,874</b>	<b>\$ 266,324,793</b>	<b>\$ 264,483,829</b>	<b>\$ 262,703,586</b>	<b>\$ 268,995,600</b>	<b>\$ 265,626,000</b>	<b>\$ 260,898,000</b>	<b>\$ 123,263,400</b>
Ten largest suburban wholesale member partners % of total operating revenues	55.94%	56.50%	56.18%	56.30%	57.30%	56.09%	51.58%	53.48%

[1] Net of bad debt expense.

\* GLWA began operations on January 1, 2016. The data for 2016 is for the six months of activity through June 30, 2016.

This schedule is being built prospectively. Ultimately, 10 years of data will be presented.

**GREAT LAKES WATER AUTHORITY**  
WATER SYSTEM SERVICE CHARGES\*

**DRAFT 12.4.23** Schedule 5

Community Name	Fixed Monthly Charge	Commodity \$/Mcf	Community Name	Fixed Monthly Charge	Commodity \$/Mcf
Allen Park	\$ 136,800	\$ 7.52	Mayfield Township	\$ 2,200	\$ 34.12
Almont, Village of	13,000	10.84	Melvindale	35,000	6.66
Ash Township	45,100	8.56	New Haven, Village of	20,300	8.83
Belleville	17,900	9.41	North Oakland County Water Authority	1,192,200	10.89
Berlin Township	39,900	11.75	Northville, City	41,900	10.77
Brownstown Township	195,700	11.49	Northville Township	306,100	17.72
Bruce Township	18,700	56.29	Novi	490,900	13.42
Canton Township	563,000	12.52	Oak Park	75,300	6.35
Center Line	25,600	6.38	Oakland County Drain Commission	4,400	3.64
Chesterfield Township	233,100	10.56	Plymouth, City	59,000	10.59
Clinton Township	409,600	8.21	Plymouth Township	240,700	11.96
Commerce Township	195,300	14.96	Redford Township	171,300	8.64
Dearborn	548,800	7.46	River Rouge	37,000	7.81
Dearborn Heights	199,200	8.08	Riverview	48,100	8.02
Eastpointe	84,600	6.49	Rockwood	15,000	12.33
Ecorse	78,400	4.94	Romeo	14,100	18.33
Farmington	54,700	9.79	Romulus	233,200	8.34
Farmington Hills	478,200	10.95	Roseville	145,500	6.24
Ferndale	56,400	6.27	Royal Oak Township	10,500	8.14
Flat Rock	69,600	10.65	Shelby Township	781,200	15.14
Flint (1)	577,300	9.84	Southeastern Oakland County Water Authority	1,242,900	8.08
Fraser	65,900	9.06	South Rockwood	6,200	10.74
Garden City	89,600	9.16	Southgate	118,700	8.49
Gibraltar	18,100	8.83	St. Clair County-Burtchville Township	18,800	17.95
Grosse Ile Township	59,500	12.49	St. Clair County-Greenwood Energy Center	71,400	22.78
Grosse Pointe Park	72,800	10.60	St. Clair Shores	168,200	6.92
Grosse Pointe Shores	35,100	14.65	Sterling Heights	836,700	11.32
Grosse Pointe Woods	68,700	7.91	Sumpter Township	37,100	9.80
Hamtramck	43,500	5.58	Sylvan Lake	12,700	15.92
Harper Woods	43,600	7.38	Taylor	250,800	7.75
Harrison Township	88,100	7.38	Trenton	91,600	8.47
Hazel Park	39,900	6.36	Troy	738,900	12.71
Highland Park	62,900	4.76	Utica	30,100	10.44
Huron Township	80,800	10.43	Van Buren Township	191,100	11.28
Imlay City	79,900	13.82	Walled Lake	43,000	11.51
Imlay Township	800	45.33	Warren	558,100	7.22
Inkster	69,300	5.47	Washington Township	127,400	12.46
Keego Harbor	16,300	12.99	Wayne	174,700	13.26
Lapeer	83,600	12.64	West Bloomfield Township	567,600	17.03
Lenox Township	15,700	8.99	Westland	335,100	8.32
Lincoln Park	126,300	6.11	Wixom	134,800	14.32
Livonia	620,700	10.54	Woodhaven	90,900	12.57
Macomb Township	682,100	17.01	Ypsilanti Community Utilities Authority	563,400	9.34
Madison Heights	100,400	7.64			

Annual Detroit Wholesale Revenue Requirement \$22,834,300

\* Water charges went into effect July 1, 2022. Amounts reflect the amended charges approved by the GLWA Board of Director's on June 2, 2022.

(1) Net fixed monthly charge will include \$554,300 monthly credits for KWA debt service



**GREAT LAKES WATER AUTHORITY**  
**SEWAGE DISPOSAL SYSTEM SERVICE CHARGES\***

DRAFT 12.4.23

Schedule 6

Community Name	Fixed Monthly Charge
Oakland-Macomb Interceptor District (OMID)	\$ 5,942,700
Rouge Valley	4,660,900
Oakland County - George W. Kuhn (GWK)	3,864,800
Evergreen Farmington	3,016,300
SE Macomb Sanitary District	2,089,200
Dearborn	1,691,600
Grosse Pointe Farms	229,000
Grosse Pointe Park	158,700
Melvindale	131,200
Farmington	99,900
Center Line	86,900
Allen Park	70,700
Highland Park	451,700
Hamtramck	336,800
Grosse Pointe	75,000
Harper Woods	18,200
Redford Township	22,600
Wayne County #3	4,400

Annual Detroit Wholesale Revenue Requirement \$191,042,200

\* Wholesale charges went into effect July 1, 2022. Amounts reflect the amended charges approved by the GLWA Board of Director's on June 2, 2022.

## INDUSTRIAL WASTE CONTROL CHARGES AND POLLUTANT SURCHARGES

EFFECTIVE JULY 1, 2022

Industrial Waste Control Charges			
Meter size (inches)	Admin Only Charge (1)	Monthly Charge (2)	
5/8	\$ 0.90	\$ 3.58	
3/4	\$ 1.34	\$ 5.37	
1	\$ 2.24	\$ 8.95	
1 1/2	\$ 4.92	\$ 19.69	
2	\$ 7.16	\$ 28.64	
3	\$ 12.98	\$ 51.91	
4	\$ 17.90	\$ 71.60	
6	\$ 26.85	\$ 107.40	
8	\$ 44.75	\$ 179.00	
10	\$ 62.65	\$ 250.60	
12	\$ 71.60	\$ 286.40	
14	\$ 89.50	\$ 358.00	
16	\$ 107.40	\$ 429.60	
18	\$ 125.30	\$ 501.20	
20	\$ 143.20	\$ 572.80	
24	\$ 161.10	\$ 644.40	
30	\$ 179.00	\$ 716.00	
36	\$ 196.90	\$ 787.60	
48	\$ 214.80	\$ 859.20	

- (1) Administration only charge is applicable to member partners that are within a geographical area defined in a specific agreement.
- (2) Includes both administration and field work components charges for all other member partners.

Pollutant Surcharges		
Pollutant		Charge per Pound
Biochemical Oxygen Demand (BOD)	for concentrations > 275 mg/l	\$ 0.351
Total Suspended Solids (TSS)	for concentrations > 350 mg/l	\$ 0.482
Phosphorus (P)	for concentrations > 12 mg/l	\$ 6.448
Fats, Oil and Grease (FOG)	for concentrations > 100 mg/l	\$ 0.112
Septage Disposal Fee	per 500 gallons of disposal	\$ 36.00

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## **DEBT CAPACITY**

Debt capacity information is intended to show the Authority's debt burden and its ability to issue additional debt.

**GREAT LAKES WATER AUTHORITY**  
RATIOS OF OUTSTANDING DEBT BY TYPE

	Fiscal Year							
	2023	2022	2021	2020	2019	2018	2017	2016
<b>Water Fund</b>								
Revenue bonds [1]	\$ 2,447,181,498	\$ 2,289,900,079	\$ 2,368,632,473	\$ 2,453,471,088	\$ 2,466,561,092	\$ 2,540,663,196	\$ 2,612,607,101	\$ 2,507,091,038
State revolving loans	207,356,808	109,429,462	71,259,601	39,318,264	29,860,802	25,435,902	17,252,235	17,383,761
Raw water rights obligation	92,515,774	95,361,056	98,095,302	100,720,122	103,241,119	106,240,576	-	-
BC Note obligation	16,338,339	16,542,293	16,736,535	16,921,526	17,097,709	17,265,503	17,425,306	17,577,499
Total Water Fund	<u>\$ 2,763,392,419</u>	<u>\$ 2,511,232,890</u>	<u>\$ 2,554,723,911</u>	<u>\$ 2,610,431,000</u>	<u>\$ 2,616,760,722</u>	<u>\$ 2,689,605,177</u>	<u>\$ 2,647,284,642</u>	<u>\$ 2,542,052,298</u>
<b>Sewage Disposal Fund</b>								
Revenue bonds [1]	\$ 2,636,761,869	\$ 2,498,387,185	\$ 2,577,642,399	\$ 2,643,788,368	\$ 2,764,196,915	\$ 2,739,090,653	\$ 2,797,168,264	\$ 2,922,089,599
Capital appreciation bonds [1]	-	-	5,504,069	10,667,560	13,377,972	14,984,042	19,501,737	19,668,138
State revolving loans	349,919,118	379,648,216	416,767,850	449,666,531	474,177,128	475,677,540	485,267,036	506,435,742
BC Note obligation	36,750,112	37,208,869	37,645,780	38,061,886	38,458,177	38,835,597	39,195,045	39,537,376
Total Sewage Disposal Fund	<u>\$ 3,023,431,099</u>	<u>\$ 2,915,244,270</u>	<u>\$ 3,037,560,098</u>	<u>\$ 3,142,184,345</u>	<u>\$ 3,290,210,192</u>	<u>\$ 3,268,587,832</u>	<u>\$ 3,341,132,082</u>	<u>\$ 3,487,730,855</u>
Total taxable value [2]	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total population served [3]:								
Water	3,800,000	3,800,000	3,800,000	3,800,000	3,800,000	3,800,000	3,800,000	3,800,000
Sewage disposal	2,800,000	2,800,000	2,800,000	2,800,000	2,800,000	2,800,000	2,800,000	2,800,000
Total debt per capita:								
Water	\$ 727	\$ 661	\$ 672	\$ 687	\$ 689	\$ 708	\$ 697	\$ 669
Sewage disposal	\$ 1,080	\$ 1,041	\$ 1,085	\$ 1,122	\$ 1,175	\$ 1,167	\$ 1,193	\$ 1,246
Per capita income [4]	\$ 66,285	\$ 62,274	\$ 60,965	\$ 57,755	\$ 53,428	\$ 51,823	\$ 49,809	\$ 48,605
Total debt as a percentage of income:								
Water	1.10%	1.06%	1.10%	1.19%	1.29%	1.37%	1.40%	1.38%
Sewage disposal	1.63%	1.67%	1.78%	1.94%	2.20%	2.25%	2.40%	2.56%

[1] Amounts are reported net of premiums and discounts.

[2] GLWA is not authorized to levy property taxes; therefore, presentation of taxable values and the ratio of total debt to taxable value is not applicable.

[3] Source: Estimated based on data from Southeast Michigan Council of Governments (SEMCOG).

[4] Source: FRED Economic Data, St. Louis Fed and Michigan State University Center for Economic Analysis. (Prior year amounts have been updated to match current data from FRED)

Further details regarding the Authority's debt can be found in the notes to the financial statements.

GLWA began operations on January 1, 2016. This schedule is being built prospectively. Ultimately, 10 years of data will be presented.

## GREAT LAKES WATER AUTHORITY

DRAFT 12.4.23 Schedule 9

DEBT BY LIEN  
As of June 30, 2023

Continued on Next Page

	Original Principal Amount [1]	Outstanding as of June 30, 2023
<b>Water Supply System Revenue Bonds</b>		
Senior Lien Bonds		
Water Supply System Revenue Senior Lien Bonds, Series 2003A	\$ 234,805,000	\$ 100,000
Water Supply System Revenue Senior Lien Bonds, Series 2005B	194,900,000	100,000
Water Supply System Revenue Senior Lien Bonds, Series 2006A	280,000,000	100,000
Water Supply System Revenue Refunding Senior Lien Bonds, Series 2014D-1	206,540,000	44,190,000
Water Supply System Revenue Refunding Senior Lien Bonds, Series 2014D-2	188,455,000	182,480,000
Water Supply System Revenue Refunding Senior Lien Bonds, Series 2014D-4	307,645,000	209,360,000
Water Supply System Revenue Refunding Senior Lien Bonds, Series 2015D-1	89,430,000	69,275,000
Water Supply System Revenue Senior Lien Bonds, Series 2016A	88,000,000	87,990,000
Water Supply System Revenue Refunding Senior Lien Bonds, Series 2016C	443,930,000	439,065,000
Water Supply System Revenue Senior Lien Bonds, Series 2020A	42,445,000	42,445,000
Water Supply System Revenue Refunding Senior Lien Bonds, Series 2020C	377,515,000	375,645,000
Water Supply System Revenue Senior Lien Bonds, Series 2022A	137,470,000	137,470,000
Total Senior Lien Bonds	2,591,135,000	1,588,220,000
Second Lien Bonds		
Water Supply System Revenue Second Lien Bonds, Series 2003B	172,945,000	100,000
Water Supply System Revenue Second Lien Bonds, Series 2006B	120,000,000	100,000
Water Supply System Revenue Refunding Second Lien Bonds, Series 2014D-6	65,425,000	45,820,000
Water Supply System Revenue Refunding Second Lien Bonds, Series 2015D-2	37,235,000	37,235,000
Water Supply System Revenue Second Lien Bonds, Series 2016B	163,830,000	163,820,000
Water Supply System Revenue Refunding Second Lien Bonds, Series 2016D	222,045,000	222,045,000
Water Supply System Revenue Refunding Second Lien Bonds, Series 2018A	155,595,000	109,040,000
Water Supply System Revenue Second Lien Bonds, Series 2020B	43,135,000	43,135,000
Water Supply System Revenue Second Lien Bonds, Series 2022B	69,745,000	69,745,000
Total Second Lien Bonds	1,049,955,000	691,040,000
SRF Junior Lien Bonds		
Water Supply System Revenue Bonds, Series 2005 SRF-1	13,805,164	3,130,164
Water Supply System Revenue Bonds, Series 2005 SRF-2	8,891,730	1,976,730
Water Supply System Revenue Bonds, Series 2006 SRF-1	5,180,926	1,165,926
Water Supply System Revenue Bonds, Series 2008 SRF-1	2,590,941	650,941
Water Supply System Revenue Bonds, Series 2016 SRF-1	8,273,168	7,258,168
Water Supply System Revenue Bonds, Series 2016 SRF-2	3,393,543	2,968,543
Water Supply System Revenue Bonds, Series 2017 SRF-1	5,807,931	5,192,931
Water Supply System Revenue Bonds, Series 2019 SRF-1	8,330,000	7,635,000
Water Supply System Revenue Bonds, Series 2019 SRF-2	29,950,000	27,824,226
Water Supply System Revenue Bonds, Series 2019 SRF-3	11,788,056	7,447,932
Water Supply System Revenue Bonds, Series 2020 SRF-1	20,538,700	19,514,960
Water Supply System Revenue Bonds, Series 2020 SRF-2	9,000,000	6,940,958
Water Supply System Revenue Bonds, Series 2020 SRF-3	8,960,000	7,909,220
Water Supply System Revenue Bonds, Series 2020 SRF-4	12,153,050	8,832,593
Water Supply System Revenue Bonds, Series 2021 SRF-1	11,940,000	4,209,249
Water Supply System Revenue Bonds, Series 2021 SRF-2	104,725,000	50,945,907
Water Supply System Revenue Bonds, Series 2021 SRF-3	11,528,950	9,678,360
Water Supply System Revenue Bonds, Series 2022 SRF-2	34,075,000	34,075,000
Total SRF Junior Lien Bonds	310,932,159	207,356,808
<b>TOTAL WATER SUPPLY SYSTEM REVENUE BONDS</b>	<b>\$ 3,952,022,159</b>	<b>\$ 2,486,616,808</b>

## GREAT LAKES WATER AUTHORITY

DRAFT 12.4.23 Schedule 9DEBT BY LIEN  
As of June 30, 2023

Continued on Next Page

	Original Principal Amount [1]	Outstanding as of June 30, 2023
<b>Sewage Disposal System Revenue Bonds</b>		
Senior Lien Bonds		
Sewage Disposal System Senior Lien Revenue Bonds, Series 2003B	150,000,000	100,000
Sewage Disposal System Senior Lien Revenue Refunding Bonds, Series 2004A	101,435,000	11,095,000
Sewage Disposal System Revenue Refunding Senior Lien Bonds, Series 2006D	370,000,000	239,475,000
Sewage Disposal System Revenue Refunding Senior Lien Bonds, Series 2014C-3	446,170,000	347,585,000
Sewage Disposal System Revenue Refunding Senior Lien Bonds, Series 2014C-6	143,880,000	88,900,000
Sewage Disposal System Revenue Refunding Senior Lien Bonds, Series 2016B	126,105,000	126,105,000
Sewage Disposal System Revenue Refunding Senior Lien Bonds, Series 2018A	81,595,000	77,345,000
Sewage Disposal System Revenue Refunding Senior Lien Bonds, Series 2018B	131,690,000	131,690,000
Sewage Disposal System Revenue Refunding Senior Lien Bonds, Series 2018C	44,180,000	31,260,000
Sewage Disposal System Revenue Refunding Senior Lien Bonds, Series 2020A	594,930,000	594,930,000
Sewage Disposal System Senior Lien Revenue Bonds, Series 2022A	125,975,000	125,975,000
Sewage Disposal System Revenue Refunding Senior Lien Bonds, Series 2022C	12,490,000	12,490,000
Total Senior Lien Bonds	2,328,450,000	1,786,950,000
Second Lien Bonds		
Sewage Disposal System Second Lien Revenue Bonds, Series 2001B	110,550,000	78,895,000
Sewage Disposal System Revenue Second Lien Bonds, Series 2005A	273,355,000	100,000
Sewage Disposal System Revenue Refunding Second Lien Bonds, Series 2005C	63,160,000	100,000
Sewage Disposal System Revenue Second Lien Bonds, Series 2006B	250,000,000	100,000
Sewage Disposal System Revenue Refunding Second Lien Bonds, Series 2014C-7	76,715,000	48,800,000
Sewage Disposal System Revenue Refunding Second Lien Bonds, Series 2015C	197,660,000	197,160,000
Sewage Disposal System Revenue Refunding Second Lien Bonds, Series 2016C	295,190,000	295,190,000
Sewage Disposal System Revenue Refunding Second Lien Bonds, Series 2020B	92,525,000	81,850,000
Sewage Disposal System Revenue Second Lien Bonds, Series 2022B	71,990,000	71,990,000
Total Second Lien Bonds	1,431,145,000	774,185,000

## GREAT LAKES WATER AUTHORITY

DEBT BY LIEN  
As of June 30, 2023

**DRAFT 12.4.23**

Schedule 9  
Continued From  
Previous Page

	Original Principal Amount [1]	Outstanding as of June 30, 2023
<b>Sewage Disposal System Revenue Bonds (cont.)</b>		
SRF Junior Lien Bonds		
Sewage Disposal System Revenue Bonds, Series 2001 SRF-1	82,200,000	10,190,000
Sewage Disposal System Revenue Bonds, Series 2001 SRF-2	59,850,000	7,420,000
Sewage Disposal System Revenue Bonds, Series 2002 SRF-3	31,549,466	3,594,466
Sewage Disposal System Revenue Bonds, Series 2003 SRF-1	48,520,000	8,910,000
Sewage Disposal System Revenue Bonds, Series 2003 SRF-2	25,055,370	3,080,370
Sewage Disposal System Revenue Bonds, Series 2004 SRF-1	2,910,000	350,000
Sewage Disposal System Revenue Bonds, Series 2004 SRF-2	18,353,459	2,203,459
Sewage Disposal System Revenue Bonds, Series 2004 SRF-3	12,722,575	1,517,575
Sewage Disposal System Revenue Bonds, Series 2007 SRF-1	167,540,598	64,885,598
Sewage Disposal System Revenue Bonds, Series 2009 SRF-1	13,970,062	5,500,062
Sewage Disposal System Revenue Bonds, Series 2010 SRF-1	4,214,763	1,910,763
Sewage Disposal System Revenue Bonds, Series 2012 SRF-1	14,950,000	9,840,000
Sewage Disposal System Revenue Bonds, Series 2015A SRF	79,500,000	56,015,000
Sewage Disposal System Revenue Bonds, Series 2015B SRF	27,175,304	18,795,304
Sewage Disposal System Revenue Bonds, Series 2015D SRF	15,321,478	10,391,478
Sewage Disposal System Revenue Bonds, Series 2016 SAW-1	10,000,000	8,380,000
Sewage Disposal System Revenue Bonds, Series 2016 SRF-1	15,463,628	12,133,628
Sewage Disposal System Revenue Bonds, Series 2016 SRF-2	48,315,683	40,045,683
Sewage Disposal System Revenue Bonds, Series 2017 SRF-1	33,566,682	28,196,682
Sewage Disposal System Revenue Bonds, Series 2018 SRF-2	17,510,000	17,510,000
Sewage Disposal System Revenue Bonds, Series 2020 SRF-1	28,350,000	22,086,744
Sewage Disposal System Revenue Bonds, Series 2020 SRF-2	3,232,000	843,067
Sewage Disposal System Revenue Bonds, Series 2021 SRF-1	12,940,000	7,438,078
Sewage Disposal System Revenue Bonds, Series 2021 SRF-2	6,881,250	-
Sewage Disposal System Revenue Bonds, Series 2022 SRF-1	34,195,000	-
Sewage Disposal System Revenue Bonds, Series 2022 SRF-2	50,245,000	5,630,308
Sewage Disposal System Revenue Bonds, Series 2022 SRF-3	19,035,000	3,050,853
Sewage Disposal System Revenue Bonds, Series 2023 SRF-1	88,820,000	-
Total SRF Junior Lien Bonds	972,387,318	349,919,118
<b>TOTAL SEWAGE DISPOSAL SYSTEM REVENUE BONDS</b>	<b>\$ 4,731,982,318</b>	<b>\$ 2,911,054,118</b>

[1] Reflects original amount issued by predecessor entity, DWSD, for bonds issued prior to January 1, 2016.



## GREAT LAKES WATER AUTHORITY

SCHEDULE OF DEBT SERVICE REQUIREMENTS  
As of June 30, 2023DRAFT 12.4.23  
Schedule 10

Continued on Next Page

Fiscal Year Ending [1]	Senior Lien Bonds (\$000)			Second Lien Bonds (\$000)			Junior Lien Bonds (\$000)			All Bonds (\$000) Total Debt Service
	Principal	Interest	Total	Principal	Interest	Total	Principal	Interest	Total	
<b>Water Fund</b>										
2024 [2]	\$27,280	\$60,003	\$87,283	\$12,970	\$31,622	\$44,592	\$6,985	\$4,099	\$11,084	\$142,960
2025	64,210	70,597	134,807	18,380	32,915	51,295	12,454	3,889	16,343	202,445
2026	67,320	67,666	134,986	19,475	31,969	51,444	12,710	3,642	16,352	202,781
2027	70,355	64,412	134,767	20,450	30,970	51,420	12,953	3,390	16,343	202,530
2028	73,835	61,037	134,872	21,475	29,922	51,397	11,560	3,150	14,710	200,980
2029	77,435	57,531	134,966	22,795	28,816	51,611	11,801	2,924	14,725	201,301
2030	81,190	53,692	134,882	23,930	27,647	51,577	11,885	2,694	14,579	201,039
2031	85,115	49,648	134,763	27,935	26,351	54,286	12,130	2,462	14,592	203,640
2032	89,285	45,390	134,675	29,330	24,919	54,249	12,334	2,225	14,559	203,483
2033	93,635	40,916	134,551	30,800	23,559	54,359	12,045	1,989	14,034	202,943
2034	87,550	36,435	123,985	42,720	22,065	64,785	12,265	1,753	14,018	202,788
2035	95,855	31,870	127,725	40,530	20,186	60,716	10,731	1,529	12,260	200,701
2036	123,660	26,400	150,060	15,270	18,791	34,061	7,390	1,351	8,741	192,862
2037	20,540	22,903	43,443	124,865	15,287	140,152	7,530	1,203	8,733	192,328
2038	61,925	21,175	83,100	6,120	12,012	18,132	7,690	1,052	8,742	109,974
2039	66,240	18,654	84,894	4,755	11,740	16,495	7,835	898	8,733	110,122
2040	71,880	16,125	88,005	1,765	11,577	13,342	7,526	745	8,271	109,618
2041	74,550	13,410	87,960	1,850	11,487	13,337	7,339	595	7,934	109,230
2042	76,020	10,613	86,633	1,945	11,392	13,337	5,344	457	5,801	105,771
2043	27,200	8,509	35,709	31,665	10,551	42,216	4,355	351	4,706	82,631
2044	25,300	7,177	32,477	36,395	8,846	45,241	2,048	266	2,314	80,032
2045	26,575	5,863	32,438	38,225	6,972	45,197	1,980	223	2,203	79,838
2046	27,920	4,483	32,403	40,140	5,005	45,145	2,030	179	2,209	79,757
2047	29,340	3,033	32,373	42,155	2,938	45,093	1,598	135	1,732	79,199
2048	10,525	2,017	12,542	6,450	1,714	8,164	1,617	99	1,716	22,422
2049	7,720	1,545	9,265	6,860	1,366	8,226	1,098	63	1,161	18,651
2050	8,115	1,136	9,251	7,215	993	8,208	865	42	907	18,366
2051	5,585	780	6,365	4,600	675	5,275	880	25	905	12,545
2052	5,875	479	6,354	4,855	415	5,270	380	8	388	12,012
2053	6,185	162	6,347	5,120	141	5,261	-	-	-	11,608
<b>Total</b>	<b>\$1,588,220</b>	<b>\$803,660</b>	<b>\$2,391,880</b>	<b>\$691,040</b>	<b>\$462,844</b>	<b>\$1,153,884</b>	<b>\$207,357</b>	<b>\$41,435</b>	<b>\$248,792</b>	<b>\$3,794,557</b>

## GREAT LAKES WATER AUTHORITY

SCHEDULE OF DEBT SERVICE REQUIREMENTS  
As of June 30, 2023

DRAFT Schedule 10 12.4.23

Continued From Previous Page

Fiscal Year Ending [1]	Senior Lien Bonds (\$000)			Second Lien Bonds (\$000)			Junior Lien Bonds (\$000)			All Bonds (\$000) Total Debt Service
	Principal	Interest	Total	Principal	Interest	Total	Principal	Interest	Total	
<b>Sewage Disposal Fund</b>										
2024 [2]	\$40,550	\$63,381	\$103,931	\$2,015	\$31,145	\$33,160	\$40,360	\$7,540	\$47,900	\$184,991
2025	82,615	71,810	154,425	16,035	36,809	52,844	44,156	6,620	50,776	258,045
2026	85,100	68,048	153,148	17,210	35,920	53,130	30,385	5,766	36,151	242,429
2027	91,115	63,742	154,857	21,260	34,898	56,158	27,170	5,154	32,324	243,339
2028	95,355	59,413	154,768	26,025	33,652	59,677	26,016	4,581	30,596	245,041
2029	102,795	54,948	157,743	27,170	32,255	59,425	25,908	4,028	29,936	247,104
2030	114,800	49,923	164,723	20,415	30,995	51,410	26,241	3,478	29,718	245,851
2031	109,495	44,603	154,098	33,130	29,620	62,750	16,096	2,998	19,093	235,942
2032	113,375	39,540	152,915	34,785	27,922	62,707	16,090	2,608	18,698	234,320
2033	131,210	34,797	166,007	22,555	26,489	49,044	16,500	2,219	18,719	233,770
2034	133,095	29,148	162,243	26,590	25,284	51,874	16,930	1,819	18,749	232,867
2035	54,305	24,658	78,963	113,150	22,119	135,269	17,400	1,410	18,810	233,041
2036	12,190	23,212	35,402	162,800	15,914	178,714	16,405	1,004	17,409	231,525
2037	12,530	22,809	35,339	170,230	8,174	178,404	8,790	641	9,431	223,174
2038	118,255	20,691	138,946	1,695	4,083	5,778	8,934	433	9,366	154,090
2039	118,130	16,904	135,034	5,695	3,922	9,617	8,112	220	8,333	152,984
2040	126,030	12,978	139,008	1,815	3,759	5,574	1,337	75	1,412	145,994
2041	32,680	10,250	42,930	1,880	3,692	5,572	1,010	52	1,062	49,564
2042	34,035	8,868	42,903	1,950	3,623	5,573	1,030	31	1,061	49,537
2043	35,450	7,425	42,875	2,020	3,552	5,572	1,050	11	1,061	49,507
2044	35,375	5,962	41,337	3,615	3,437	7,052	-	-	-	48,389
2045	36,615	4,479	41,094	3,775	3,278	7,053	-	-	-	48,147
2046	14,260	3,356	17,616	1,700	3,152	4,852	-	-	-	22,468
2047	15,000	2,599	17,599	1,795	3,061	4,856	-	-	-	22,454
2048	15,780	1,803	17,583	1,895	2,964	4,859	-	-	-	22,441
2049	9,025	1,164	10,189	9,485	2,653	12,138	-	-	-	22,327
2050	4,105	826	4,931	10,010	2,117	12,127	-	-	-	17,058
2051	4,325	605	4,930	10,565	1,551	12,116	-	-	-	17,046
2052	4,555	372	4,927	11,150	954	12,104	-	-	-	17,031
2053	4,800	126	4,926	11,770	324	12,094	-	-	-	17,020
Total	\$1,786,950	\$748,437	\$2,535,387	\$774,185	\$437,316	\$1,211,501	\$349,919	\$50,689	\$400,608	\$4,147,496

[1] Reflects fiscal period in which actual payments are due.

[2] For bonds issued through the Michigan Finance Authority (MFA) in 2014 and 2015, the Authority is required to make payment on these obligations to the MFA depository account five business days prior to the actual due date of the bond principal and interest payments. Therefore, the payments for the principal and interest due on July 1, 2023 are not included in the debt service requirement amounts above as they were paid on June 26, 2023.

Schedule may not foot due to rounding

**GREAT LAKES WATER AUTHORITY**  
DEBT CREDIT RATING HISTORY

**DRAFT 12.4.23** Schedule 11

	Fiscal Year							
	2023	2022	2021	2020	2019	2018	2017	2016
<b>Water Supply System Revenue</b>								
Standards & Poor's								
Senior Lien	AA-	AA-	AA-	AA-	AA-	A-	A-	A-
Second Lien	A+	A+	A+	A+	A+	BBB+	BBB+	BBB+
Junior Lien	A+	A+	A+	A+	A+	N/A	N/A	N/A
Moody's								
Senior Lien	A1	A1	A1	A1	A2	A3	A3	Baa1
Second Lien	A2	A2	A2	A2	A3	Baa1	Baa1	Baa2
Fitch								
Senior Lien	A+	A+	A+	A+	A	A	A	BBB
Second Lien	A	A	A	A	A-	A-	A-	BBB-
<b>Sewage Disposal System Revenue</b>								
Standard's & Poor's								
Senior Lien	AA-	AA-	AA-	AA-	A+	A-	A-	A-
Second Lien	A+	A+	A+	A+	A	BBB+	BBB+	BBB+
Junior Lien	A+	A+	A+	A+	A	N/A	N/A	N/A
Moody's								
Senior Lien	A1	A1	A1	A1	A2	A3	A3	Baa1
Second Lien	A2	A2	A2	A2	A3	Baa1	Baa1	Baa2
Fitch								
Senior Lien	A+	A+	A+	A+	A	A	A	BBB
Second Lien	A	A	A	A	A-	A-	A-	BBB-

GLWA began operations on January 1, 2016. This schedule is being built prospectively. Ultimately, 10 years of data will be presented.

## CALCULATION OF DEBT SERVICE COVERAGE - OVERVIEW

As of June 30, 2023

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The Authority has pledged Net Revenues of the water and sewage disposal systems to secure the repayment of the principal and interest of the revenue bonds and State of Michigan revolving fund loans. Revenues are defined in the Master Bond Ordinance (MBO) and are in accordance with State of Michigan Public Act 94, the Revenue Bond Act of 1933, as all monies collected, directly or indirectly, by GLWA, or by the DWSD as agent for GLWA for the local system under the water and sewer services agreement. Net Revenues are defined in the MBO as all Revenues except for those transferred to the Operations and Maintenance Fund.

Debt service coverage ratios are presented using both (a) the GAAP methodology which calculates pledged revenue on an accrual basis and (b) the Rate Covenant methodology which calculates pledged revenue on a cash basis.

The MBO establishes that rates and charges be set such that they are expected to produce debt service coverage that is not less than the Required Coverage. Required Coverage is defined as debt service coverage levels of 1.20 for senior lien bonds, 1.10 for second lien bonds and 1.00 for any junior lien bonds, other than second lien bonds. Debt service coverage ratios are inclusive of all revenue bonds and state revolving loans held on behalf of both GLWA and DWSD.

**GREAT LAKES WATER AUTHORITY**  
DEBT SERVICE COVERAGE - GAAP BASIS - WATER SYSTEM

	Fiscal Year							
	2023	2022 [8]	2021	2020	2019	2018	2017	2016 [1]
GLWA Revenues								
Wholesale customer charges	\$ 340,593,806	\$ 323,026,213	\$ 322,423,768	\$ 312,701,777	\$ 311,399,136	\$ 323,117,344	\$ 336,222,256	\$ 160,777,169
KWA debt service credits	(6,452,573)	(6,496,428)	(6,652,253)	(6,652,348)	(6,979,503)	(3,176,073)	-	-
DWSD Local System charges	22,834,300	21,697,300	21,925,500	21,295,500	20,181,400	15,130,600	15,490,300	6,833,500
Other revenue	1,378,706	775,537	267,562	1,912,636	21,340	64,200	37,388	54,863
Earnings on investments [2]	9,161,614	1,945,613	4,195,305	9,115,115	11,818,203	4,489,397	1,348,898	520,891
Total GLWA Revenues	<u>367,515,853</u>	<u>340,948,235</u>	<u>342,159,882</u>	<u>338,372,680</u>	<u>336,440,576</u>	<u>339,625,468</u>	<u>353,098,842</u>	<u>168,186,423</u>
DWSD Local System Revenues [7]								
Local System revenues [3]	104,034,950	83,591,720	67,464,986	73,817,339	69,777,041	83,983,786	69,680,402	183,279,645
Other Revenue	1,055,988	2,349,445	1,958,151	7,289,468	1,013,276	1,635,430	5,265,229	2,074,095
Total DWSD Local System Revenues	<u>105,090,938</u>	<u>85,941,165</u>	<u>69,423,137</u>	<u>81,106,807</u>	<u>70,790,317</u>	<u>85,619,216</u>	<u>74,945,631</u>	<u>185,353,740</u>
Total Revenue	<u>472,606,791</u>	<u>426,889,400</u>	<u>411,583,019</u>	<u>419,479,487</u>	<u>407,230,893</u>	<u>425,244,684</u>	<u>428,044,473</u>	<u>353,540,163</u>
Operating Costs								
GLWA operating expenses	155,167,048	137,815,968	123,638,092	132,532,838	119,821,946	108,530,383	101,730,949	49,545,659
GASB 96 expenditures [4]	2,282,630	413,924	-	-	-	-	-	-
O&M transfers:								
DWSD Local System operations	42,581,600	29,989,000	35,833,900	34,662,400	35,484,300	35,059,704	33,596,400	22,444,800
Legacy Pension Regional System [5]	6,048,000	6,048,000	6,048,000	6,048,000	6,048,000	6,048,000	6,048,000	3,024,000
Legacy Pension DWSD Local System [5]	4,272,000	4,272,000	4,272,000	4,272,000	4,272,000	4,272,000	4,272,000	2,136,000
Total Operating Costs	<u>210,351,278</u>	<u>178,538,892</u>	<u>169,791,992</u>	<u>177,515,238</u>	<u>165,626,246</u>	<u>153,910,087</u>	<u>145,647,349</u>	<u>77,150,459</u>
Pledged Revenue	<u>\$ 262,255,513</u>	<u>\$ 248,350,508</u>	<u>\$ 241,791,027</u>	<u>\$ 241,964,249</u>	<u>\$ 241,604,647</u>	<u>\$ 271,334,597</u>	<u>\$ 282,397,124</u>	<u>\$ 276,389,704</u>
Principal and interest funding requirement [6]:								
Senior lien bonds	\$ 133,773,102	\$ 124,309,692	\$ 123,798,304	\$ 122,318,928	\$ 119,230,820	\$ 127,687,420	\$ 134,234,660	\$ 128,177,999
Second lien bonds	50,117,190	46,840,350	51,731,158	47,849,350	46,214,385	42,852,813	38,990,023	41,178,843
Total senior and second lien bonds	183,890,292	171,150,042	175,529,462	170,168,278	165,445,205	170,540,233	173,224,683	169,356,842
Junior lien bonds	8,910,595	5,439,273	3,684,917	2,700,795	2,521,249	2,009,658	1,785,328	1,781,683
Total All Bonds	<u>\$ 192,800,887</u>	<u>\$ 176,589,315</u>	<u>\$ 179,214,379</u>	<u>\$ 172,869,073</u>	<u>\$ 167,966,454</u>	<u>\$ 172,549,891</u>	<u>\$ 175,010,011</u>	<u>\$ 171,138,525</u>
GAAP Basis Debt Service Coverage								
Senior lien bonds	1.96	2.00	1.95	1.98	2.03	2.12	2.10	2.16
Senior and second lien bonds	1.43	1.45	1.38	1.42	1.46	1.59	1.63	1.63
All bonds, including SRF junior lien	1.36	1.41	1.35	1.40	1.44	1.57	1.61	1.62

[1] GLWA started operations on January 1, 2016. Includes 6 months under operations of DWSD and 6 months under the operations of GLWA under the Master Bond Ordinances in effect during the respective time

[2] Excludes investment earnings on bond proceeds in construction fund.

[3] Local Service Revenue reported net of bad debt expense.

[4] Amounts recorded under GASB 96 for financial reporting purposes are treated as operating expenditures for budget purposes and the debt service coverage calculation.

[5] The legacy pension obligations reflects only the Legacy Pension Obligation as defined in Section 504(c) of the Water Master Bond Ordinance.

[6] Calculated on a debt set aside basis consistent with rate covenant basis for rate determination purposes.

[7] At the time of the issuance of the GLWA financial report, DWSD's audited financial report had not been released. Amounts used were provided by DWSD's management of the preliminary financial results for the year ended June 30, 2023.

[8] DWSD local system revenues for 2022 were based on DWSD preliminary financial results. Amounts have been updated to actual.

This schedule is being built prospectively; ultimately, 10 years of data will be presented.

## GREAT LAKES WATER AUTHORITY

DRAFT 12.4.23

Schedule 12b

## DEBT SERVICE COVERAGE - RATE COVENANT BASIS - WATER SYSTEM

	Fiscal Year						
	2023	2022	2021	2020	2019	2018	2017
GLWA Receipts							
Wholesale System receipts	\$ 332,337,913	\$ 313,964,381	\$ 310,032,178	\$ 303,568,071	\$ 308,690,722	\$ 319,728,881	\$ 336,362,250
DWSD Local System charges	22,834,300	21,697,300	21,925,500	21,295,500	20,181,400	15,130,600	15,490,300
Investment Earnings	8,163,261	2,456,013	4,684,353	7,742,625	7,722,112	3,592,524	579,546
Total GLWA Receipts	363,335,474	338,117,694	336,642,031	332,606,196	336,594,234	338,452,005	352,432,096
DWSD Local System Receipts	98,010,223	80,267,663	80,141,924	75,590,223	79,686,819	85,962,882	80,960,806
Total Receipts	461,345,697	418,385,357	416,783,955	408,196,419	416,281,053	424,414,887	433,392,902
Operation and Maintenance Transfers							
GLWA Regional System operations [2]	156,747,700	143,933,800	124,167,627	126,188,192	116,356,994	114,426,522	105,431,843
DWSD Local System operations	42,581,600	29,989,000	35,833,900	34,662,400	35,484,300	35,059,704	33,596,400
Legacy Pension Regional System [3]	6,048,000	6,048,000	6,048,000	6,048,000	6,048,000	6,048,000	6,048,000
Legacy Pension DWSD Local System [3]	4,272,000	4,272,000	4,272,000	4,272,000	4,272,000	4,272,000	4,272,000
Total Operations and Maintenance Transfers	209,649,300	184,242,800	170,321,527	171,170,592	162,161,294	159,806,226	149,348,243
Pledged Revenue	\$ 251,696,397	\$ 234,142,557	\$ 246,462,428	\$ 237,025,827	\$ 254,119,759	\$ 264,608,661	\$ 284,044,659
Principal and interest funding requirement [4]:							
Senior lien bonds	\$ 133,773,102	\$ 124,309,692	\$ 123,798,304	\$ 122,318,928	\$ 119,230,820	\$ 127,687,420	\$ 134,234,660
Second lien bonds	50,117,190	46,840,350	51,731,158	47,849,350	46,214,385	42,852,813	38,990,023
Total senior and second lien bonds	183,890,292	171,150,042	175,529,462	170,168,278	165,445,205	170,540,233	173,224,683
Junior lien bonds	8,910,595	5,439,273	3,684,917	2,700,795	2,521,249	2,009,658	1,785,328
Total All Bonds	\$ 192,800,887	\$ 176,589,315	\$ 179,214,379	\$ 172,869,073	\$ 167,966,454	\$ 172,549,891	\$ 175,010,011
Rate Covenant Basis Debt Service Coverage							
Senior lien bonds	1.88	1.88	1.99	1.94	2.13	2.07	2.12
Senior and second lien bonds	1.37	1.37	1.40	1.39	1.54	1.55	1.64
All bonds, including SRF junior lien	1.31	1.33	1.38	1.37	1.51	1.53	1.62

[1] GLWA started operations on January 1, 2016. Due to the bifurcation from DWSD the Rate Covenant Basis cannot be computed for 2016.

[2] For years prior to 2022 a different methodology was used. A calculation was performed to determine the cash basis disbursements from the operations fund.

[3] The legacy pension obligations reflects only the Legacy Pension Obligation as defined in Section 504 (c) of the Water Master Bond Ordinance.

[4] Calculated on a debt set aside basis consistent with rate covenant basis for rate determination purposes.

This schedule is being built prospectively; ultimately, 10 years of data will be presented.

## GREAT LAKES WATER AUTHORITY

## DEBT SERVICE COVERAGE - GAAP BASIS - SEWAGE DISPOSAL SYSTEM

	Fiscal Year							
	2023	2022 [8]	2021	2020	2019	2018	2017	2016 [1]
GLWA Revenues								
Suburban Wholesale Customers	\$ 275,917,502	\$ 268,813,369	\$ 267,567,816	\$ 266,003,286	\$ 272,772,460	\$ 268,978,831	\$ 298,376,775	\$ 121,106,353
DWSD Local system charges	191,042,200	188,662,200	187,959,700	185,807,300	181,159,300	178,969,200	187,304,100	95,826,900
Industrial waste charges	8,393,103	8,300,278	8,004,939	7,854,593	9,106,274	14,334,979	14,381,106	6,910,192
Pollutant surcharges	4,894,567	5,181,816	6,719,964	6,448,508	5,932,550	6,908,404	5,206,294	2,423,910
Other Revenue	4,901,316	817,448	6,481,905	6,491,617	506,323	4,391,145	538,807	4,197,614
Earnings on investments [2]	12,498,292	1,842,475	2,802,041	7,775,080	9,592,270	4,022,582	1,384,225	586,072
Total GLWA Revenues	497,646,980	473,617,586	479,536,365	480,380,384	479,069,177	477,605,141	507,191,307	231,051,041
DWSD Local System Revenues [7]								
Local system revenues [3]	106,468,842	132,274,680	79,360,298	80,935,263	71,542,770	84,018,973	45,587,339	206,870,710
Other Revenue	322,763	1,797,906	915,216	914,969	346,821	159,535	4,617,148	(940,714)
Total DWSD Local System Revenues	106,791,605	134,072,586	80,275,514	81,850,232	71,889,591	84,178,508	50,204,487	205,929,996
Total Revenue	604,438,585	607,690,172	559,811,879	562,230,616	550,958,768	561,783,649	557,395,794	436,981,037
Operating Costs								
GLWA operating expenses	211,656,126	186,918,677	178,101,424	176,949,460	174,040,805	176,379,404	151,318,266	84,380,021
GASB 87 and GASB 96 expenditures [4]	2,464,377	1,041,308	118,759	-	-	-	-	-
O&M transfers:								
DWSD Local System operations	51,396,400	61,301,000	69,915,700	55,243,500	56,767,920	60,517,992	41,535,600	16,949,400
Legacy Pension Regional System [5]	10,824,000	10,824,000	10,824,000	10,824,000	10,824,000	10,824,000	10,824,000	5,412,000
Legacy Pension DWSD Local System [5]	2,856,000	2,856,000	2,856,000	2,856,000	2,856,000	2,856,000	2,856,000	1,428,000
Total Operating Costs	279,196,903	262,940,985	261,815,883	245,872,960	244,488,725	250,577,396	206,533,866	108,169,421
Pledged revenue	\$ 325,241,682	\$ 344,749,187	\$ 297,995,996	\$ 316,357,656	\$ 306,470,043	\$ 311,206,253	\$ 350,861,928	\$ 328,811,616
Principal and interest funding requirement [6]:								
Senior lien bonds	\$ 152,866,129	\$ 130,404,294	\$ 119,217,128	\$ 147,310,565	\$ 145,795,507	\$ 141,718,836	\$ 140,854,010	\$ 140,191,016
Second lien bonds	39,847,153	51,893,038	57,778,951	45,878,850	43,922,600	43,990,100	47,918,639	48,944,924
Total senior and second lien bonds	192,713,282	182,297,332	176,996,079	193,189,415	189,718,107	185,708,936	188,772,649	189,135,940
Junior lien bonds	50,145,516	53,550,614	53,166,797	52,593,843	49,454,156	46,571,896	45,782,165	39,434,631
Total All Bonds	\$ 242,858,798	\$ 235,847,946	\$ 230,162,876	\$ 245,783,258	\$ 239,172,263	\$ 232,280,832	\$ 234,554,814	\$ 228,570,571
GAAP Basis Debt Service Coverage								
Senior lien bonds	2.13	2.64	2.50	2.15	2.10	2.20	2.49	2.35
Senior and second lien bonds	1.69	1.89	1.68	1.64	1.62	1.68	1.86	1.74
All bonds, including SRF junior lien	1.34	1.46	1.29	1.29	1.28	1.34	1.50	1.44

[1] GLWA started operations on January 1, 2016. Includes 6 months under operations of DWSD and 6 months under the operations of GLWA under the Master Bond Ordinances in effect during the respective time periods.

[2] Excludes investment earnings on bond proceeds in construction fund.

[3] Local Service Revenue reported net of bad debt expense.

[4] Amounts recorded under GASB 96 for financial reporting purposes are treated as operating expenditures for budget purposes and the debt service coverage calculation.

[5] The legacy pension obligations reflects only the Legacy Pension Obligation as defined in Section 504(c) of the Water Master Bond Ordinance.

[6] Calculated on a debt set aside basis consistent with rate covenant basis for rate determination purposes.

[7] At the time of the issuance of the GLWA financial report, DWSD's audited financial report had not been released. Amounts used were provided by DWSD's management of the preliminary financial results for the year ended June 30, 2023.

[8] DWSD local system revenues for 2022 were based on DWSD preliminary financial results. Amounts have been updated to actual.

This schedule is being built prospectively; ultimately, 10 years of data will be presented.

## GREAT LAKES WATER AUTHORITY

## DEBT SERVICE COVERAGE - RATE COVENANT BASIS - SEWAGE DISPOSAL SYSTEM

DRAFT 12.4.23 Schedule 12d

	Fiscal Year							
	2023	2022	2021	2020	2019	2018	2017	2016 [1]
GLWA Receipts								
Wholesale System receipts	\$ 297,751,807	\$ 281,636,430	\$ 288,132,728	\$ 293,321,993	\$ 281,485,522	\$ 294,503,834	\$ 281,528,551	
DWSD Local System charges	191,042,200	188,662,200	187,959,700	185,807,300	181,159,300	178,969,200	187,304,100	
Investment Earnings	10,094,409	1,680,667	2,739,425	5,372,063	5,098,922	2,796,727	372,505	
Total GLWA Receipts	498,888,416	471,979,297	478,831,853	484,501,356	467,743,744	476,269,761	469,205,156	
DWSD Local System Receipts	101,900,942	101,030,510	118,699,151	77,444,540	82,349,510	60,314,827	43,553,820	
Total Receipts	600,789,358	573,009,807	597,531,004	561,945,896	550,093,254	536,584,588	512,758,976	
Operations and Maintenance Transfers								
GLWA Regional System operations [2]	204,122,500	191,908,600	165,588,970	176,416,149	171,899,072	172,614,312	172,965,094	
DWSD Local System operations	51,396,400	61,301,000	69,915,700	55,243,500	56,767,920	60,517,992	41,535,600	
Legacy Pension Regional System [3]	10,824,000	10,824,000	10,824,000	10,824,000	10,824,000	10,824,000	10,824,000	
Legacy Pension DWSD Local System [3]	2,856,000	2,856,000	2,856,000	2,856,000	2,856,000	2,856,000	2,856,000	
Total Operations and Maintenance Transfers	269,198,900	266,889,600	249,184,670	245,339,649	242,346,992	246,812,304	228,180,694	
Pledged Revenue	\$ 331,590,458	\$ 306,120,207	\$ 348,346,334	\$ 316,606,247	\$ 307,746,262	\$ 289,772,284	\$ 284,578,282	
Principal and interest funding requirement [4]:								
Senior lien bonds	\$ 152,866,129	\$ 130,404,294	\$ 119,217,128	\$ 147,310,565	\$ 145,795,507	\$ 141,718,836	\$ 140,854,010	
Second lien bonds	39,847,153	51,893,038	57,778,951	45,878,850	43,922,600	43,990,100	47,918,639	
Total senior and second lien bonds	192,713,282	182,297,332	176,996,079	193,189,415	189,718,107	185,708,936	188,772,649	
Junior lien bonds	50,145,516	53,550,614	53,166,797	52,593,843	49,454,156	46,571,896	45,782,165	
Total All Bonds	\$ 242,858,798	\$ 235,847,946	\$ 230,162,876	\$ 245,783,258	\$ 239,172,263	\$ 232,280,832	\$ 234,554,814	
Rate Covenant Basis Debt Service Coverage								
Senior lien bonds	2.17	2.35	2.92	2.15	2.11	2.04	2.02	
Senior and second lien bonds	1.72	1.68	1.97	1.64	1.62	1.56	1.51	
All bonds, including SRF junior lien	1.37	1.30	1.51	1.29	1.29	1.25	1.21	

[1] GLWA started operations on January 1, 2016. Due to the bifurcation from DWSD the Rate Covenant Basis cannot be computed for 2016.

[2] For years prior to 2022 a different methodology was used. A calculation was performed to determine the cash basis disbursements from the operations fund.

[3] The legacy pension obligations reflects only the Legacy Pension Obligation as defined in Section 504 (c) of the Water Master Bond Ordinance.

[4] Calculated on a debt set aside basis consistent with rate covenant basis for rate determination purposes.

This schedule is being built prospectively; ultimately, 10 years of data will be presented.



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## **DEMOGRAPHIC AND ECONOMIC INFORMATION**

Demographic and economic information is intended to show the socioeconomic environment within which the Authority operates.

## GREAT LAKES WATER AUTHORITY

DRAFT 12.4.23

Schedule 13

## SERVICE AREA DEMOGRAPHICS

Last Ten Years

Year	Population (1)	Unemployment (2)	Per Capita Income (3)	Total Debt Service (5)	Debt Per Capita	Debt Service as a Percentage of Income
<b>Water Fund</b>						
2023	3,800,000	3.7%	\$ 66,285 (4)	\$ 192,800,887	\$ 50.74	0.08%
2022	3,800,000	3.8%	62,274 (4)	176,589,315	46.47	0.07%
2021	3,800,000	6.2%	60,965	179,214,379	47.16	0.08%
2020	3,800,000	11.5%	57,755	172,869,073	45.49	0.08%
2019	3,800,000	4.3%	53,428	167,966,454	44.20	0.08%
2018	3,800,000	4.3%	51,823	172,549,891	45.41	0.09%
2017	3,800,000	4.6%	49,809	175,010,011	46.06	0.09%
2016 *	3,800,000	5.3%	48,605	171,138,525	45.04	0.09%
2015 *	3,800,000	5.9%	47,473	178,923,900	47.09	0.10%
2014 *	3,800,000	8.1%	44,884	182,464,900	48.02	0.11%
<b>Sewage Disposal Fund</b>						
2023	2,800,000	3.7%	\$ 66,285 (4)	\$ 242,858,798	\$ 86.74	0.13%
2022	2,800,000	3.8%	62,274 (4)	235,847,946	84.23	0.14%
2021	2,800,000	6.2%	60,965	230,162,876	82.20	0.13%
2020	2,800,000	11.5%	57,755	245,783,258	87.78	0.15%
2019	2,800,000	4.3%	53,428	239,172,263	85.42	0.16%
2018	2,800,000	4.3%	51,823	232,280,832	82.96	0.16%
2017	2,800,000	4.6%	49,809	234,554,814	83.77	0.17%
2016 *	2,800,000	5.3%	48,605	228,570,571	81.63	0.17%
2015 *	2,807,000	5.9%	47,473	232,612,800	82.87	0.17%
2014 *	2,807,000	8.1%	44,884	229,611,100	81.80	0.18%

(1) Source: Estimated based on data from Southeast Michigan Council of Governments (SEMCOG).

(2) Source: Bureau of Labor Statistics Detroit-Warren-Dearborn MSA Annual Average (For 2023 the June rate was used). The Detroit-Warren-Dearborn Metropolitan Statistical Area (MSA) is comprised of six counties: Wayne, Oakland, Macomb, Livingston, Lapeer and St. Clair. This represents the majority of the service area customers.

(3) Source: FRED Economic Data, St. Louis Fed (Prior year amounts have been updated to match current information from FRED)

(4) Source: Michigan State University Center for Economic Analysis

(5) Debt service is based on set aside debt service requirements for the fiscal year which includes the subsequent year July 1st debt payment.

\* GLWA assumed operations on January 1, 2016. The information in this table from 2014-2015 is based on operations under the City of Detroit Water and Sewerage Department (DWSD). Data for 2016 includes six months of operation under DWSD and six months of operation under GLWA.

**GREAT LAKES WATER AUTHORITY**  
**LARGEST EMPLOYERS**  
 Current Year and 9 years prior

**DRAFT 12.4.23** Schedule 14

Employer	Type of Business	Fiscal Year 2023			Fiscal Year 2014		
		Full- Time Employees (a)	Rank	Percent of Total Employment (b)	Full- Time Employees (c)	Rank	Percent of Total Employment (d)
Ford Motor Co.	Automobile Manufacturer	47,750	1	2.34%	43,977	1	2.35%
Stellantis NV (Formerly FCA US LLC)	Automobile Manufacturer	42,444	2	2.08%	32,106	2	1.71%
General Motors Co.	Automobile Manufacturer	38,600	3	1.89%	30,570	3	1.63%
University of Michigan	Public University and Health System	35,620	4	1.74%	29,855	4	1.59%
Corewell Health (Formerly BSHS System)	Health Care System	21,674	5	1.06%	n/a	n/a	n/a
U.S. Government	Federal Government	19,953	6	0.98%	18,703	5	1.00%
Henry Ford Health System	Health Care System	17,469	8	0.85%	17,492	6	0.93%
Rocket Companies Inc.	FinTech platform company consisting of personal finance and consumer technology brands	14,109	7	0.69%	11,563	9	0.62%
Trinity Health Michigan	Health Care System	13,186	9	0.65%	14,341	7	0.77%
Ascension Michigan	Health Care System	12,085	10	0.59%	11,337	10	0.61%
Detroit Medical Center	Health Care System	n/a	n/a	n/a	12,268	8	0.65%
Total		<u>262,890</u>		<u>12.87%</u>	<u>222,212</u>		<u>11.86%</u>

- (a) July 2022 Employment data from Largest Southeast Michigan Employers - Ranked by full-time employees in the December 19, 2022 Crain's Detroit Business (most recent available)
- (b) Percentage base on U.S. Bureau of Labor Statistics from July 2022 of 2,043,249 for the Detroit-Warren-Dearborn, MI Metropolitan Statistical Area
- (c) July 2014 Employment data from comparative column in July 2015 listing of Largest Southeast Michigan Employers - Ranked by full-time employees issued by Crain's Detroit Business
- (d) Percentage base on U.S. Bureau of Labor Statistics from July 2014 of 1,873,108 for the Detroit-Warren-Dearborn, MI Metropolitan Statistical Area

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## **OPERATING INFORMATION**

Operating information is intended to show contextual information about the Authority's operations and resources to assist in using financial statement information to understand and assess the Authority's economic condition.

**GREAT LAKES WATER AUTHORITY**  
**PRODUCED AND BILLED WATER VOLUMES (Mcf)**

**DRAFT 12.4.23**  
 Schedule 1b

Fiscal Year	Water Produced [1]	Water Sales			Estimated Non-Revenue Water	Estimated Non-Revenue Water as % of Production
		Wholesale Billed [2]	Local System Billed [3]	Total Water Billed		
2023	21,159,700	13,803,500	4,342,400	18,145,900	3,013,800	14.2%
2022	19,725,700	13,205,300	4,297,300	17,502,600	2,223,100	11.3%
2021	20,565,800	14,258,300	4,120,000	18,378,300	2,187,500	10.6%
2020	19,989,500	13,578,700	4,161,300	17,740,000	2,249,500	11.3%
2019	20,968,100	13,708,600	4,354,600	18,063,200	2,904,900	13.9%
2018	23,228,600	14,391,800	4,428,200	18,820,000	4,408,600	19.0%
2017	23,915,600	14,824,000	4,465,800	19,289,800	4,625,800	19.3%
2016 *	23,580,700	14,730,400	4,649,100	19,379,500	4,201,200	17.8%

The table for historical water sales and reported total water production presents water volume in thousands of cubic feet ("Mcf") for suburban wholesale customers, for the Retail Water Customers, and for the Regional Water System as a whole, together with total water production and non-revenue water volume. As is common for all large water systems, the Regional Water System experiences a differential between the quantity of water produced by the treatment plants during the fiscal year and the quantity of water billed to customers over the same period, and the difference is referred to as "non-revenue water." Non-revenue water results from a variety of factors such as the range of accuracy of production and retail meters, losses due to leaks or major breaks in the transmission and distribution systems, unmetered water that is used for fire protection, and the accuracy of estimates for unmetered use. The Authority believes that improvements in the accuracy of the reported production figures may reduce the level of non-revenue water. Production at some of the water plants is not metered, but rather is estimated based on pump curves. The data continues to be reviewed, and the Authority has initiated efforts to measure production figures and refine production estimating techniques.

The schedule of charges for each of the wholesale customers consists of a fixed monthly charge and a commodity charge applied to monthly metered water usage. While the overall methodology used to determine charges for each customer is uniform, the service charge schedule for each customer is unique, reflecting the specific volumes, peak demands, and other demographic information in their individual contracts. Charges are designed to recover 60% of the revenue requirement via fixed monthly charges, with the other 40% generated by commodity charges.

[1] Represents, in part, estimated volumes based on pump curves and engineering analysis. GLWA engineering studies in 2017 concluded that the total water production values for calendar year 2016 were over-reported by 5.8%.

[2] Represents metered amounts for all suburban wholesale customers, with the exception of Dearborn which is based on self-reported billed volumes (including local system losses), and Highland Park, which is based on estimated volumes.

[3] The GLWA charges the DWSD local system a flat charge based on average historical usage from DWSD retail billings data adjusted for water loss. These amounts reflect retail water sales as reported by DWSD plus estimated real and apparent losses in the local distribution system based on engineering studies.

\* GLWA assumed operations on January 1, 2016. Data for 2016 includes six months of operation under DWSD and six months of operation under GLWA.

Source: Great Lakes Water Authority Financial Services Area and the Foster Group

This schedule is being built prospectively; ultimately, 10 years of data will be presented

## GREAT LAKES WATER AUTHORITY

DRAFT Schedule 4b 12.4.23

## WASTEWATER VOLUMES (Mcf)

Fiscal Year	Wastewater Influent [1]	Customer Wastewater Volume [2]		"System" Volume [3]
		Metered Customers	Unmetered Customers [3]	
2023 *	26,039,900	11,684,200	8,381,700	5,974,000
2022	36,008,500	15,461,800	11,436,800	9,109,900
2021	27,543,700	11,859,700	8,918,200	6,765,800
2020	30,856,000	13,812,000	9,611,600	7,432,400
2019	34,080,800	14,658,300	10,891,500	8,531,000
2018	32,139,200	13,587,800	10,505,100	8,046,300
2017	33,623,600	14,141,100	10,805,100	8,677,400
2016 **	29,336,600	12,802,100	9,402,100	7,132,400

Wastewater volumes are monitored by GLWA operations and engineering teams throughout the year then go through a formal review and approval process over a period of six to nine months following the end of the fiscal year. The formal, annual, data analytic review is led by an outside consultant. As part of this process preliminary data is shared with customers to confirm. Current and historic data does change at times as system improvements are made and reporting refinements occur.

[1] Represents total influent volume to the System, including volumes treated and discharged at the Water Resource Recovery Facility and volumes discharged via Combined Sewer Overflow facilities.

[2] The GLWA Sewer Charge Methodology uses historical wastewater volumes to allocate annual revenue requirements to the member partners based on historical wastewater volumes, and recovers the allocated revenue requirements via fixed monthly charges.

[3] The GLWA Sewer Charge Methodology assigns a portion of the unmetered non-sanitary flow volume as a "system" responsibility allocable to all member partners. The remaining amount is assigned to unmetered customers, which includes the Local System and certain wholesale customers.

\* Data is preliminary

\*\* GLWA assumed operations on January 1, 2016. Data for 2016 includes six months of operation under City of Detroit Water and Sewerage Department (DWSD) and six months of operation under GLWA.

This schedule is being built prospectively; ultimately, 10 years of data will be presented.



**GREAT LAKES WATER AUTHORITY**  
**ADDITIONAL SUMMARY STATISTICS**

**DRAFT** Schedule 1 **12.4.23**

	2023	2022	2021	2020	2019	2018	2017	2016
<b>Capital Asset Statistics - Water</b>								
Water Treatment Plants	5	5	5	5	5	5	5	5
Intake Facilities	3	3	3	3	3	3	3	3
Booster Pumping Stations	19	19	19	19	19	19	19	19
Water Storage Reservoirs	32	32	32	32	32	32	32	32
Miles of Transmission Lines	816	816	816	816	816	803	803	803
<b>Capital Asset Statistics - Sewer</b>								
Water Resource Recovery Facility	1	1	1	1	1	1	1	1
Major Interceptors	3	3	3	3	3	3	3	3
Pump Stations [1]	9	9	9	9	9	9	9	9
Combined Sewer Overflow Facilities:								
Retention Treatment Basins	5	5	5	5	5	5	5	5
Flow-through Type Facilities	3	3	3	3	3	3	3	3
Miles of Trunk Sewers and Interceptors	195	195	195	195	195	181	181	181
<b>GLWA Employees</b>								
Water Operations	217	203	211	211	213	205	180	155
Sewage Disposal Operations	289	298	320	344	369	358	342	320
Centralized Services	321	295	298	302	295	276	249	217
Administrative Services	181	152	156	152	147	129	110	90
Total Employees	<u>1,008</u>	<u>948</u>	<u>985</u>	<u>1,009</u>	<u>1,024</u>	<u>968</u>	<u>881</u>	<u>782</u>

[1] GLWA operates nine pump stations. This count includes four pump stations that are owned by DWSD and operated by GLWA under a shared services agreement.

GLWA began operations on January 1, 2016. This schedule is being built prospectively. Ultimately, 10 years of data will be presented.





**Financial Services Area**  
735 Randolph, Suite 1608  
Detroit, Michigan 48226

# **Great Lakes Water Authority**

Report on Federal Awards

June 30, 2023

**Great Lakes Water Authority**

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Table of Contents  
June 30, 2023

	<u>Page</u>
<b>Report on Internal Control Over Financial Reporting and on Compliance and Other Matters Based on an Audit of Financial Statements Performed in Accordance With <i>Government Auditing Standards</i></b>	1
<b>Report on Compliance for Each Major Federal Program; Report on Internal Control Over Compliance; and Report on the Schedule of Expenditures of Federal Awards Required by the Uniform Guidance</b>	3
Schedule of Expenditures of Federal Awards	6
Notes to Schedule of Expenditures of Federal Awards	7
Schedule of Findings and Questioned Costs	8

**Report on Internal Control  
Over Financial Reporting and on Compliance  
and Other Matters Based on an Audit of  
Financial Statements Performed in Accordance  
With *Government Auditing Standards***

**Independent Auditors' Report**

To the Board of Directors of  
Great Lakes Water Authority

We have audited, in accordance with the auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States (*Government Auditing Standards*), the financial statements of the business-type activities, and each major fund of the Great Lakes Water Authority (the Authority), as of and for the year ended June 30, 2023, and the related notes to the financial statements, which collectively comprise the Authority's basic financial statements, and have issued our report thereon dated December 13, 2023.

**Report on Internal Control Over Financial Reporting**

In planning and performing our audit of the financial statements, we considered the Authority's internal control over financial reporting (internal control) as a basis for designing audit procedures that are appropriate in the circumstances for the purpose of expressing our opinions on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the Authority's internal control. Accordingly, we do not express an opinion on the effectiveness of the Authority's internal control.

*A deficiency in internal control* exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. A *material weakness* is a deficiency, or a combination of deficiencies, in internal control such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected, on a timely basis. A *significant deficiency* is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses or significant deficiencies may exist that were not identified.

**Report on Compliance and Other Matters**

As part of obtaining reasonable assurance about whether the Authority's financial statements are free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the financial statements. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.

**Purpose of This Report**

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the entity's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the entity's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

Madison, Wisconsin  
December 13, 2023

**Report on Compliance  
for Each Major Federal Program;  
Report on Internal Control Over Compliance; and  
Report on the Schedule of Expenditures of  
Federal Awards Required by the Uniform Guidance**

**Independent Auditors' Report**

To the Board of Directors of  
Great Lakes Water Authority

**Report on Compliance for Each Major Federal Program**

***Opinion on Each Major Federal Program***

We have audited the Great Lakes Water Authority's (the Authority) compliance with the types of compliance requirements identified as subject to audit in the OMB *Compliance Supplement* that could have a direct and material effect on each of the Authority's major federal programs for the year ended June 30, 2023. The Authority's major federal programs are identified in the summary of auditors' results section of the accompanying schedule of findings and questioned costs.

In our opinion, the Authority complied, in all material respects, with the compliance requirements referred to above that could have a direct and material effect on each of its major federal programs for the year ended June 30, 2023.

***Basis for Opinion on Each Major Federal Program***

We conducted our audit of compliance in accordance with auditing standards generally accepted in the United States of America (GAAS); the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States (*Government Auditing Standards*); and the audit requirements of Title 2 U.S. *Code of Federal Regulations* Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance). Our responsibilities under those standards and the Uniform Guidance are further described in the Auditors' Responsibilities for the Audit of Compliance section of our report.

We are required to be independent of the Authority and to meet our other ethical responsibilities, in accordance with relevant ethical requirements relating to our audit. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion on compliance for each major federal program. Our audit does not provide a legal determination of the Authority's compliance with the compliance requirements referred to above.

***Responsibilities of Management for Compliance***

Management is responsible for compliance with the requirements referred to above and for the design, implementation and maintenance of effective internal control over compliance with the requirements of laws, statutes, regulations, rules and provisions of contracts or grant agreements applicable to the Authority's federal programs.



***Auditors' Responsibilities for the Audit of Compliance***

Our objectives are to obtain reasonable assurance about whether material noncompliance with the compliance requirements referred to above occurred, whether due to fraud or error, and express an opinion on the Authority's compliance based on our audit. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with GAAS, *Government Auditing Standards*, and the Uniform Guidance will always detect material noncompliance when it exists. The risk of not detecting material noncompliance resulting from fraud is higher than for that resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations or the override of internal control. Noncompliance with the compliance requirements referred to above is considered material, if there is a substantial likelihood that, individually or in the aggregate, it would influence the judgment made by a reasonable user of the report on compliance about the Authority's compliance with the requirements of each major federal program as a whole.

In performing an audit in accordance with GAAS, *Government Auditing Standards*, and the Uniform Guidance, we:

- exercise professional judgment and maintain professional skepticism throughout the audit.
- identify and assess the risks of material noncompliance, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the Authority's compliance with the compliance requirements referred to above and performing such other procedures as we considered necessary in the circumstances.
- obtain an understanding of the Authority's internal control over compliance relevant to the audit in order to design audit procedures that are appropriate in the circumstances and to test and report on internal control over compliance in accordance with the Uniform Guidance, but not for the purpose of expressing an opinion on the effectiveness of the Authority's internal control over compliance. Accordingly, no such opinion is expressed.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and any significant deficiencies and material weaknesses in internal control over compliance that we identified during the audit.

**Report on Internal Control Over Compliance**

A *deficiency in internal control over compliance* exists when the design or operation of a control over compliance does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, noncompliance with a type of compliance requirement of a federal program on a timely basis. A *material weakness in internal control over compliance* is a deficiency, or a combination of deficiencies, in internal control over compliance, such that there is a reasonable possibility that material noncompliance with a type of compliance requirement of a federal program will not be prevented, or detected and corrected, on a timely basis. A *significant deficiency in internal control over compliance* is a deficiency, or a combination of deficiencies, in internal control over compliance with a type of compliance requirement of a federal program that is less severe than a material weakness in internal control over compliance, yet important enough to merit attention by those charged with governance.

Our consideration of internal control over compliance was for the limited purpose described in the Auditors' Responsibilities for the Audit of Compliance section above and was not designed to identify all deficiencies in internal control over compliance that might be material weaknesses or significant deficiencies in internal control over compliance. Given these limitations, during our audit we did not identify any deficiencies in internal control over compliance that we consider to be material weaknesses, as defined above. However, material weaknesses or significant deficiencies in internal control over compliance may exist that were not identified.

Our audit was not designed for the purpose of expressing an opinion on the effectiveness of internal control over compliance. Accordingly, no such opinion is expressed.

The purpose of this report on internal control over compliance is solely to describe the scope of our testing of internal control over compliance and the results of that testing based on the requirements of the Uniform Guidance. Accordingly, this report is not suitable for any other purpose.

#### **Report on Schedule of Expenditures of Federal Awards Required by the Uniform Guidance**

We have audited the financial statements of the business-type activities, and each major fund of the Authority as of and for the year ended June 30, 2023, and the related notes to the financial statements, which collectively comprise the Authority's basic financial statements. We issued our report thereon dated December 13, 2023, which contained an unmodified opinion on those financial statements. Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise the basic financial statements. The accompanying schedule of expenditures of federal awards is presented for purposes of additional analysis as required by the Uniform Guidance and is not a required part of the basic financial statements. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the basic financial statements. The information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the schedule of expenditures of federal awards is fairly stated in all material respects in relation to the basic financial statements as a whole.

Madison, Wisconsin  
December 13, 2023

**Great Lakes Water Authority**

Schedule of Expenditures of Federal Awards  
Year Ended June 30, 2023

Federal Grantor/Pass-Through Agency Program Title	Assistance Listing Number	Pass-Through Agency Grant Number	Payments Made to Subrecipients	Federal Expenditures
<b>Federal Programs</b>				
<b>U.S ENVIRONMENTAL PROTECTION AGENCY</b>				
Passed-Through the Michigan Department of Environment, Great Lakes and Energy				
Clean Water State Revolving Fund Cluster				
Capitalization Grants for Clean Water State Revolving Funds:				
State Revolving Fund Loan	66.458	5655-02	\$ -	\$ 3,210,489
State Revolving Fund Loan	66.458	5673-01	-	2,108,237
State Revolving Fund Loan	66.458	5688-01	494,915	494,915
State Revolving Fund Loan	66.458	5706-01	358,544	358,544
State Revolving Fund Loan	66.458	5741-01	-	2,462,555
State Revolving Fund Loan	66.458	5742-01	-	4,325,627
Total Clean Water State Revolving Fund Cluster			853,459	12,960,367
Passed-Through the Michigan Department of Environment, Great Lakes and Energy				
Drinking Water State Revolving Fund Cluster				
Capitalization Grants for Drinking Water State Revolving Funds:				
State Revolving Fund Loan	66.468	7445-01	-	1,229,916
State Revolving Fund Loan	66.468	7445-02	-	250,158
State Revolving Fund Loan	66.468	7445-04	-	165,867
State Revolving Fund Loan	66.468	7447-01	3,086,943	3,086,943
State Revolving Fund Loan	66.468	7460-01	398,511	398,511
State Revolving Fund Loan	66.468	7461-01	-	761,975
State Revolving Fund Loan	66.468	7461-02	-	1,190,208
State Revolving Fund Loan	66.468	7483-01	859,454	859,454
State Revolving Fund Loan	66.468	7484-01	721,829	721,829
State Revolving Fund Loan	66.468	7532-01	-	1,708,104
State Revolving Fund Grant	66.468	FS97548720	-	8,026
Total Drinking Water State Revolving Fund Cluster			5,066,737	10,380,991
Total U.S. Environmental Protection Agency			5,920,196	23,341,358
<b>U.S DEPARTMENT OF HOMELAND SECURITY</b>				
Passed-Through the Michigan State Police				
COVID-19 Emergency Protective Measures Covid-19 Public Assistance	97.036	4494DR-MI / PW-403	-	470,475
COVID-19 Emergency Protective Measures Covid-19 Public Assistance	97.036	4494DR-MI / PW-412	-	79,557
COVID-19 Emergency Protective Measures Covid-19 Public Assistance	97.036	4494DR-MI / PW-425	-	70,039
Disaster Severe Storm Utilities Public Assistance	97.036	4607DR-MI / PW-37	-	180,000
Disaster Severe Storm Utilities Public Assistance	97.036	4607DR-MI / PW-61	-	46,996
Disaster Severe Storm Utilities Public Assistance	97.036	4607DR-MI / PW-80	-	180,000
Total Disaster Grants, Public Assistance			-	1,027,067
Total Federal Programs			\$ 5,920,196	\$ 24,368,425

See notes to schedule of expenditures of federal awards

**Great Lakes Water Authority**

Notes to Schedule of Expenditures of Federal Awards  
Year Ended June 30, 2023

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**1. Basis of Presentation**

The accompanying schedule of expenditures of federal awards (the Schedule) includes the federal award activity of the Great Lakes Water Authority (the Authority) under programs of the federal government for the year ended June 30, 2023. The information in this Schedule is presented in accordance with the requirements of Title 2 U.S. *Code of Federal Regulations* Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance). Because the Schedule presents only a selected portion of the operations of the Authority, it is not intended to and does not present the financial position, changes in net position or cash flows of the Authority.

**2. Summary of Significant Accounting Policies**

Expenditures reported on the Schedule are reported on the modified cash basis of accounting, which is described as follows:

**Basis of Accounting for U.S. Environmental Protection Agency Programs**

In general, expenditures are reported in the Schedule when the Authority remits payment to a vendor or contractor, rather than when an expense is incurred by the Authority in accordance with Generally Accepted Accounting Principles (GAAP). Additionally, any amounts paid to subrecipients are included when paid or transferred instead of when incurred. The Authority reports its expenditures using this method based on guidance it received from the Michigan Department of Environment, Great Lakes, and Energy (EGLE), which serves as the pass-through entity for all of the Authority's federally funded loan programs.

**Pre-Award Costs for U.S. Environmental Protection Agency Programs**

In addition to the above, awarding agencies may approve reimbursement of costs related to projects undertaken (and paid to vendors) in prior periods. In those cases, as the payments were not previously reported as federal expenditures, they are reported on the Schedule in the period reimbursement is approved by the awarding agency.

Such expenditures are recognized following the cost principles contained in the Uniform Guidance, wherein certain types of expenditures are not allowable or are limited as to reimbursement. Pass-through entity identifying numbers are presented where available.

**Basis of Accounting for U.S. Department of Homeland Security Programs**

In general, the Authority reports these expenditures in the Schedule when payments are received from the recipient Michigan State Police (MSP). The Authority incurred eligible expenses of \$149,596 in fiscal year ended June 30, 2021, \$830,475 in fiscal year ended June 30, 2022, and \$46,996 in fiscal year ended June 30, 2023 which were approved by MSP in fiscal year ended June 30, 2023.

**3. Indirect Cost Rate**

The Authority has not elected to use the 10 percent de minimis indirect cost rate.

**Great Lakes Water Authority**

Schedule of Findings and Questioned Costs  
Year Ended June 30, 2023

**Section I - Summary of Auditors' Results****Financial Statements**

Type of report the auditor issued on whether the  
financial statements audited were prepared in  
accordance with GAAP:

Unmodified

Internal control over financial reporting:

Material weakness identified?

\_\_\_\_\_ yes

  X   no

Significant deficiency identified?

\_\_\_\_\_ yes

  X   none reported

Noncompliance material to financial statements noted?

\_\_\_\_\_ yes

  X   no**Federal Awards**

Internal control over major programs:

Material weakness identified?

\_\_\_\_\_ yes

  X   no

Significant deficiency identified?

\_\_\_\_\_ yes

  X   none reported

Type of auditors' report issued on compliance for major  
programs:

Unmodified

Any audit findings disclosed that are required to be  
reported in accordance with section 2 CFR 200.516(a)  
of the Uniform Guidance?

\_\_\_\_\_ yes

  X   no

Auditee qualified as low-risk auditee?

  X   yes

\_\_\_\_\_ no

Identification of major federal programs:

**Assistance Listing Number****Name of Federal Program or Cluster**

66.468

Drinking Water State Revolving Fund Cluster – Capitalization  
Grants for Drinking Water State Revolving Funds

Dollar threshold used to distinguish between Type A  
and Type B programs:

  \$ 750,000

**Great Lakes Water Authority**

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Schedule of Findings and Questioned Costs  
Year Ended June 30, 2023

**Section II - Financial Statement Findings Required to be Reported in Accordance with *Government Auditing Standards***

None reported.

**Section III - Federal Awards Findings and Questioned Costs**

None reported.



## Financial Services Audit Committee Communication

**Date:** December 8, 2023

**To:** Great Lakes Water Authority Audit Committee

**From:** Lisa L. Mancini, Financial Services Area Chief of Staff

**Re:** FY 2024 First Quarter Budget Amendments through September 30, 2023, and  
Proposed Budget Amendment Resolution

**Background:** In accordance with the budget amendment policy, articles, and by-laws for the Great Lakes Water Authority, a quarterly budget amendment report is presented for review by the Audit Committee. When budget amendments are required at the appropriation level as defined by the corresponding fiscal year budget adoption resolution, the Audit Committee reviews the proposed budget amendments and forwards to the Board of Directors with a recommendation.

**Analysis:** See attached report.

**Proposed Action:** The Audit Committee recommends that the Board of Directors for the Great Lakes Water Authority adopt the proposed budget resolution for the first quarter FY 2024 budget amendments.

..Title

**Resolution to Approve the FY 2024 First Quarter Budget Amendments**

..Body

Agenda of: December 13, 2023

Item No.: **2023-467**

Amount: N/A

**TO:** The Honorable  
Board of Directors  
Great Lakes Water Authority

**FROM:** Suzanne R. Coffey, P.E.  
Chief Executive Officer  
Great Lakes Water Authority

**DATE:** December 13, 2023

**RE:** **Resolution to Approve the FY 2024 First Quarter Budget Amendments**

**MOTION**

Upon recommendation of Nicolette Bateson, Chief Financial Officer/Treasurer, the Board of Directors (Board) of the Great Lakes Water Authority (GLWA), approves the **FY 2024 First Quarter Budget Amendments as presented**; and authorizes the Chief Executive Officer to take such other action as may be necessary to accomplish the intent of this vote.

**BACKGROUND**

The founding legal documents for the Great Lakes Water Authority (GLWA) provide a structure for budget preparation, adoption, and amendment. The Board of Directors adopts a biennial budget by resolution which specifies appropriation amounts which may be modified through budget amendments. To the extent that there is a proposed amendment of the budget among the appropriation categories, the matter is brought to



the Audit Committee for review and consideration of a recommendation to the Board of Directors for their consideration for approval.

### **JUSTIFICATION**

Attached is the communication to the Audit Committee, dated December 8, 2023, which presents the proposed budget amendments for the first quarter of FY 2024. The reports included in this communication include the following.

1. Quarterly Budget Amendment Report for FY 2024 ending September 30, 2023.
2. Resolution Adopting the Budget Amendments through the First Quarter of FY 2024.

### **BUDGET IMPACT**

The overall budget, despite amendment, continues to be balanced.

### **COMMITTEE REVIEW**

This matter was reviewed by the Audit Committee at its meeting on December 8, 2023. The Audit Committee [*insert action*] that the Board of Directors for the Great Lakes Water Authority adopt the proposed FY 2024 first quarter budget amendments.

### **SHARED SERVICES IMPACT**

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



## Financial Services Audit Committee Communication

**Date:** December 8, 2023

**To:** Great Lakes Water Authority Audit Committee

**From:** Lisa L. Mancini, Financial Services Area Chief of Staff

**Re:** FY 2024 First Quarter Budget Amendments through September 30, 2023, and  
Proposed Budget Amendment Resolution

**Background:** In accordance with the budget amendment policy, articles, and by-laws for the Great Lakes Water Authority, a quarterly budget amendment report is presented for review by the Audit Committee. When budget amendments are required at the appropriation level as defined by the corresponding fiscal year budget adoption resolution, the Audit Committee will review the proposed budget amendments and forward to the Board of Directors with a recommendation.

**Analysis:** Highlights of the FY 2024 first quarter budget amendments include the following.

- A. Net increase to the Water System revenues of \$4.3 million (Table 1A)
  - \$4.0 million revenue decrease – Due to the decrease in water sales to Member Partners during the cool, wet first quarter of FY 2024.
  - \$8.0 million revenue increase – Investment earnings adjustment based on revised interest rates provided by the Authority's investment advisor.
  - \$0.3 million revenue increase – Other earnings adjustment based on activity to date for energy rebates, radio tower lease payments received, scrap metal sales, grants (apprentice program and FEMA COVID-19), and other miscellaneous receipts. The source of revenue for this category fluctuates from year to year.
- B. There is an increase to the Water Operations & Maintenance (O&M) Expense of \$10.2 million. (Table 1A). The primary drivers for this increase are as follows.
  - Utilities - \$3.7 million increase – Electric is the primary driver in this category. This increase is due to the increased charge for kWh.
  - Chemicals - \$1.0 million increase – Chemical costs, primarily Chlorine, Phosphoric Acid, Hydrofluorosilicic Acid (Fluoride), and Alum, have incurred significant cost increases due to supply issues.

- Contractual Services - \$0.4 million increase - This increase is due to the Arcadis comprehensive corrosion control optimization study which is ramping up in FY 2024.
- The allocation of the O&M increase from Centralized Services and Administrative & Other Services to Water Operations (\$5.2 million increase) is primarily due to the increase in Supplies & Other and Contractual Services. For additional detail and the explanation of the key changes to the FY 2024 budget within these categories, see *Supplemental Information – Enterprise-wide Operations & Maintenance Department and Account level Amendments (Addendum 1)*.

C. Net increase to the Sewer System revenues of \$9.3 million (Table 1B)

- \$9.0 million revenue increase – Investment earnings adjustment based on revised interest rates provided by the Authority’s investment advisor.
- \$0.3 million revenue increase – Other earnings adjustment based on activity to date for energy rebates, scrap metal sales, grants (FEMA COVID-19), and other miscellaneous receipts. The source of revenue for this category fluctuates from year to year.

D. There is an increase to the Sewer Operations & Maintenance Expense of \$14.5 million. (Table 1B). The primary drivers for this increase are as follows.

- Utilities - \$4.5 million increase – Water and sewage service are the primary drivers in this category with an increase of \$4.6 million. Water meters have been repaired and replaced at the WRRF (Water Resource Recovery Facility) and bills which had previously contained estimated readings are now being received with actual readings. The actual readings are coming in higher than the estimated readings. In addition, a new water billing structure was implemented in early FY 2023 which has resulted in an increase in the water billing rate. The wastewater facilities impacted most substantially by this rate increase are the WRRF, Oakwood Combined Sewer Overflow, and the Biosolids Dryer Facility (BDF). Other contributors to the change in Utilities are electric - \$0.2 million increase and gas - \$0.3 million decrease.
- Chemicals – Increase of \$1.6 million – Adjustment for increase in chemical costs (primarily chlorine-based products).
- Supplies & Other - \$1.5 million increase – Due to increase in equipment repairs needed due to reliability and criticality considerations.
- Contractual Services - Increase of \$1.1 million – Continued reliance on the utilization of the facilities maintenance contract with Lakeshore Global Corporation.

- The allocation of the O&M increase from Centralized Services and Administrative & Other Services to Sewer Operations (\$5.8 million increase) is primarily due to the increase in Supplies & Other and Contractual Services. For additional detail and the explanation of the key changes to the FY 2024 budget within these categories, see *Supplemental Information – Enterprise-wide Operations & Maintenance Department and Account level Amendments (Addendum 1)*.

E. Construction Funds revenues – (Tables 4A and 4B)

- Bond Proceeds – The amended budget amounts represent the November 2023 bond transaction; \$150.0 million has been added for water construction funds and \$100.0 million has been added for sewer construction funds.
- Grant Revenues (SRF Loans) - The amount budgeted for draws of State Revolving Fund (SRF) Loans for both the water (\$34.3 million decrease) and sewer (\$7.4 million increase) construction funds have been adjusted to reflect the timing of project design and construction activity.
- Bond Fund Earnings on Investments – Adjustments have been made to both the water (\$3.5 million increase) and sewer (\$4.5 million increase) construction funds based on revised interest rates provided by the Authority's investment advisor as well as the November 2023 bond transaction.

F. Construction Funds expenditures – Capital Improvement Plan (CIP) (Tables 4A and 4B) - The Capital Spending Ratio for the water capital improvement plan is forecasted to decrease from 100.0% to 94.0% which equates to \$14.3 million. The Capital Spending Ratio for the sewer capital improvement plan was decreased from 100.0% to 82.9% which equates to \$34.1 million. These adjustments were based on a review of the spend projections for FY 2024 and discussions with project personnel.

The attached budget amendment report is organized in the following manner.

**1. Appropriation Level - Revenue Requirement - Water and Sewer Systems**

- A. *Water System General Operating Fund*
- B. *Sewer System General Operating Fund*
- C. *Total Operating Fund Level – Water System and Sewer System (Supplemental Information)*
- D. *Enterprise-wide Core Groups (Supplemental Information)*
- E. *Enterprise-wide Operations & Maintenance Account Type (Supplemental Information)*

*F. Unallocated Reserve by Core Group (Supplemental Information)*

**2. Appropriation Level – Debt Service – Water and Sewer Systems**

- A. Water System Debt Service Coverage Calculation*
- B. Sewer System Debt Service Coverage Calculation*

**3. Appropriation Level – Improvement & Extension Fund – Water and Sewer Systems**

- A. Water System Improvement & Extension Fund*
- B. Sewer System Improvement & Extension Fund*

**4. Appropriation Level – Construction Fund – Water and Sewer Systems**

- A. Water System Construction Fund*
- B. Sewer System Construction Fund*

A budget amendment resolution reflecting the budget amendments is attached.



Quarterly Budget Amendment Report  
FY 2024 Ending September 30, 2023

**Table 1A - Appropriation Level - Revenue Requirement – Water System General Operating**

Water System	FY 2024 Board Adopted Budget	Total 1st Quarter FY 2024 Amendments	FY 2024 Amended Budget	FY 2024 Activity Thru 9/30/2023
<b>Revenues</b>				
Suburban Wholesale Customer Charges	\$ 340,540,600	\$ (4,000,000)	\$ 336,540,600	\$ 91,032,900
Less: Bad Debt Expense	-	-	-	-
Retail Service Charges	25,537,200	-	25,537,200	6,384,300
<i>Investment Earnings - Unrestricted</i>	<i>3,067,000</i>	<i>5,463,200</i>	<i>8,530,200</i>	<i>2,803,400</i>
<i>Investment Earnings - Restricted for Debt Service</i>	<i>994,700</i>	<i>2,536,800</i>	<i>3,531,500</i>	<i>809,100</i>
Investment Earnings	4,061,700	8,000,000	12,061,700	3,612,500
Other Revenues	175,000	265,000	440,000	239,100
<b>Total Revenues</b>	<b>\$ 370,314,500</b>	<b>\$ 4,265,000</b>	<b>\$ 374,579,500</b>	<b>\$ 101,268,800</b>
<b>Revenue Requirements</b>				
Operations & Maintenance Expense	\$ 152,906,400	\$ 10,194,100	\$ 163,100,500	\$ 40,205,200
General Retirement System Legacy Pension	-	-	-	-
Debt Service	159,482,800	3,151,200	162,634,000	39,870,700
General Retirement System Accelerated Pension	3,395,500	(1,890,000)	1,505,500	848,900
Extraordinary Repair & Replacement Deposit	-	-	-	-
Water Residential Assistance Program Contribution	1,851,600	-	1,851,600	462,900
Regional System Lease	22,500,000	-	22,500,000	5,625,000
DWSD Budget Shortfall Pending	-	-	-	-
Receiving Fund Working Capital Requirement	-	1,400,000	1,400,000	-
Improvement & Extension Fund Transfer Pending	30,178,200	(8,590,300)	21,587,900	7,544,600
<b>Total Revenue Requirements</b>	<b>\$ 370,314,500</b>	<b>\$ 4,265,000</b>	<b>\$ 374,579,500</b>	<b>\$ 94,557,300</b>
Net Actual to Date	\$ -	\$ -	\$ -	\$ 6,711,500



Quarterly Budget Amendment Report  
FY 2024 Ending September 30, 2023

<b>Appropriation Level – Revenue Requirement – Water System General Operating Budget Amendment Explanation</b>	
<b>Revenues</b>	
Suburban Wholesale Customer Charges	<i>The budget amendment proposed is due to decreased water sales to Member Partners during the cool, wet first quarter of FY 2024.</i>
Bad Debt	<i>No budget amendment is required.</i>
Retail Services Charges	<i>No budget amendment is required.</i>
Investment Earnings	<i>The increase is based on the revised interest rates provided by the Authority's investment advisor.</i>
Other Revenues	<i>The budget amendment proposed is based on activity to date for energy rebates, radio tower lease payments received, scrap metal sales, grants (apprentice program and FEMA COVID-19), and other miscellaneous receipts. This source of revenue fluctuates from year to year.</i>
<b>Revenue Requirements (Expenditures)</b>	
Operations & Maintenance Expense	<i>The Water O&amp;M budget is being increased by \$10.2 million to cover the cost increases projected for FY 2024 (details can be found in the Highlights section beginning on the first page of this document).</i>
General Retirement System Legacy Pension	<i>No budget amendment is required.</i>
Debt Service	<i>The increase is due to the new bond sale and revision of the SRF schedules (timing of the draws).</i>
General Retirement System Legacy Pension – Accelerated Payment	<i>The decrease is due to the reduction of the pension obligation to administrative fees only plus the B/C notes.</i>
Extraordinary Repair & Replacement Deposit	<i>No budget amendment is required. This is a formulaic requirement in the Master Bond Ordinance. Based on adopted and amended budget, no adjustment is required.</i>



Quarterly Budget Amendment Report  
FY 2024 Ending September 30, 2023

<b>Appropriation Level – Revenue Requirement – Water System General Operating Budget Amendment Explanation</b>	
Water Residential Assistance Program Contribution	<i>No budget amendment is required. Budget is fixed at time of budget adoption.</i>
Regional System Lease	<i>No budget amendment is required. Lease payment is established in accordance with terms of the lease.</i>
DWSD Budget Shortfall Pending	<i>No budget amendment is proposed at this time.</i>
Receiving Fund Working Capital Requirement	<i>To balance to the working capital liquidity requirements based on the increased budgeted operating expenses. Includes Extraordinary Repair &amp; Replacement funding.</i>
Improvement & Extension Fund Transfer Pending	<i>Represents annual funding for pay-as-you-go capital improvement program. Budget amendments to revenues, bad debt, investment earnings, O&amp;M expense, debt service, and DWSD budget shortfall affect this line item.</i>





Quarterly Budget Amendment Report  
FY 2024 Ending September 30, 2023

**Table 1B - Appropriation Level - Revenue Requirement – Sewer System General Operating**

Sewer System	FY 2024 Board Adopted Budget	Total 1st Quarter FY 2024 Amendments	FY 2024 Amended Budget	FY 2024 Activity Thru 9/30/2023
<b>Revenues</b>				
Suburban Wholesale Customer Charges	\$ 282,687,600	\$ -	\$ 282,687,600	\$ 69,854,100
Less: Bad Debt Expense	-	-	-	-
Retail Service Charges	196,569,600	-	196,569,600	49,142,400
Industrial Waste Control Charges	8,584,200	-	8,584,200	2,153,300
Pollutant Surcharges	5,328,300	-	5,328,300	1,142,200
<i>Investment Earnings - Unrestricted</i>	<i>5,567,000</i>	<i>7,832,700</i>	<i>13,399,700</i>	<i>3,713,700</i>
<i>Investment Earnings - Restricted for Debt Service</i>	<i>1,490,300</i>	<i>1,167,300</i>	<i>2,657,600</i>	<i>1,235,500</i>
Investment Earnings	7,057,300	9,000,000	16,057,300	4,949,200
Other Revenues	400,000	317,000	717,000	412,500
<b>Total Revenues</b>	<b>\$ 500,627,000</b>	<b>\$ 9,317,000</b>	<b>\$ 509,944,000</b>	<b>\$ 127,653,700</b>
<b>Revenue Requirements</b>				
Operations & Maintenance Expense	\$ 205,643,700	\$ 14,484,700	\$ 220,128,400	\$ 51,332,500
General Retirement System Legacy Pension	-	-	-	-
Debt Service	228,328,300	3,453,300	231,781,600	57,082,100
General Retirement System Accelerated Pension	6,479,300	(3,382,500)	3,096,800	1,619,800
Extraordinary Repair & Replacement Deposit	-	-	-	-
Water Residential Assistance Program Contribution	2,503,100	-	2,503,100	625,800
Regional System Lease	27,500,000	-	27,500,000	6,875,000
DWSD Budget Shortfall Pending	-	-	-	-
Improvement & Extension Fund Transfer Pending	30,172,600	(5,238,500)	24,934,100	7,543,100
<b>Total Revenue Requirements</b>	<b>\$ 500,627,000</b>	<b>\$ 9,317,000</b>	<b>\$ 509,944,000</b>	<b>\$ 125,078,300</b>
Net Actual to Date	\$ -	\$ -	\$ -	\$ 2,575,400



Quarterly Budget Amendment Report  
FY 2024 Ending September 30, 2023

<b>Appropriation Level – Revenue Requirement – Sewer System General Operating Budget Amendment Explanation</b>	
<b>Revenues</b>	
Suburban Wholesale Customer Charges	<i>No budget amendment is required.</i>
Bad Debt	<i>No budget amendment is required.</i>
Retail Services Charges	<i>No budget amendment is required.</i>
Industrial Waste Control Charges	<i>No budget amendment is required.</i>
Pollutant Surcharges	<i>No budget amendment is required.</i>
Investment Earnings	<i>The increase is based on the revised interest rates provided by the Authority's investment advisor.</i>
Other Revenues	<i>The budget amendment proposed is based on activity to date for energy rebates, scrap metal sales, grants (FEMA COVID-19), and other miscellaneous receipts. This source of revenue fluctuates from year to year.</i>
<b>Revenue Requirements (Expenditures)</b>	
Operations & Maintenance Expense	<i>The Sewer O&amp;M budget is being increased by \$14.5 million to cover the additional cost increases projected for FY 2024 (details can be found in the Highlights section beginning on the first page of this document).</i>
General Retirement System Legacy Pension	<i>No budget amendment is required.</i>
Debt Service	<i>The increase is due to the new bond sale and revision of the SRF schedules (timing of the draws).</i>
General Retirement System Legacy Pension – Accelerated Payment	<i>The decrease is due to the reduction of the pension obligation to administrative fees only plus the B/C notes.</i>
Extraordinary Repair & Replacement Deposit	<i>No budget amendment is required. This is a formulaic requirement in the Master Bond Ordinance. Based on adopted and amended budget, no adjustment is required.</i>



Quarterly Budget Amendment Report  
FY 2024 Ending September 30, 2023

<b>Appropriation Level – Revenue Requirement – Sewer System General Operating Budget Amendment Explanation</b>	
Water Residential Assistance Program Contribution	<i>No budget amendment is required. Budget is fixed at time of budget adoption.</i>
Regional System Lease	<i>No budget amendment is required. Lease payment is established in accordance with terms of the lease.</i>
DWSD Budget Shortfall Pending	<i>No budget amendment is proposed at this time.</i>
Improvement & Extension Fund Transfer Pending	<i>Represents annual funding for pay-as-you-go capital improvement program. Budget amendments to revenues, bad debt, investment earnings, debt service, and DWSD budget shortfall affect this line item.</i>



Quarterly Budget Amendment Report  
FY 2024 Ending September 30, 2023

**Table 1C - Supplemental Information – Operating Fund Level - Water System and Sewer System**

<b>System</b>	<b>FY 2024 Board Adopted Budget</b>	<b>Total 1st Quarter FY 2024 Amendments</b>	<b>FY 2024 Amended Budget</b>	<b>FY 2024 Activity Thru 9/30/2023</b>
Water System	\$ 152,906,400	\$ 10,194,100	\$ 163,100,500	\$ 40,205,200
Sewer System	205,643,700	14,484,700	220,128,400	51,332,500
<b>Total</b>	<b>\$ 358,550,100</b>	<b>\$ 24,678,800</b>	<b>\$ 383,228,900</b>	<b>\$ 91,537,700</b>

*Totals may be off due to rounding.*

As shown in the table above, there are no budget amendments for transfers of resources between the water and sewer funds. It is unforeseen that such an amendment would occur as each system is accounted for as a stand-alone entity. The purpose of this table is to transparently report that funds from one system do not provide budget support to the other system.



Quarterly Budget Amendment Report  
FY 2024 Ending September 30, 2023

**Table 1D - Supplemental Information - Enterprise-wide Core Groups**

O&M Major Budget Categories (Core Groups)	FY 2024 Board Adopted Budget	Total 1st Quarter FY 2024 Amendments	FY 2024 Amended Budget	FY 2024 Activity Thru 9/30/2023
A Water System Operations	\$ 82,732,800	\$ 5,005,400	\$ 87,738,200	\$ 22,364,700
B Wastewater System Operations	132,934,300	8,721,500	141,655,800	34,956,100
C Centralized Services	106,900,500	9,636,900	116,537,400	26,110,500
D Administrative & Other Services	35,982,500	1,315,000	37,297,500	8,106,400
<b>Total</b>	<b>\$ 358,550,100</b>	<b>\$ 24,678,800</b>	<b>\$ 383,228,900</b>	<b>\$ 91,537,700</b>

*Totals may be off due to rounding.*

A subset of the operating funds are core groups that account for A) direct cost of water operations, B) direct cost of sewer operations, C) centralized services (E.g., systems resiliency, field services, security, information technology, facilities, and fleet), D) administrative services (E.g., finance, public affairs, general counsel, and organizational development). The costs of the latter two categories are allocated to the water and sewer systems based upon an internal cost allocation plan that is performed on an annual basis.

Through the first quarter FY 2024, the following amendments are being proposed (details can be found in the Highlights section beginning on the first page of this document).

- A-Water System Operations - The Water O&M budget is being increased an additional \$5.0 million to cover the cost increases projected for FY 2024.
- B-Wastewater System Operations - The Sewer O&M budget is being increased \$8.7 million to cover the cost increases projected for FY 2024.
- C-Centralized Services - The Centralized Services O&M budget is being increased \$9.6 million to cover the cost increases projected for FY 2024. The costs in this category are allocated to the water and sewer systems.



Quarterly Budget Amendment Report  
FY 2024 Ending September 30, 2023

- D-Administrative & Other Services - The Administrative & Other Services O&M budget is being increased \$1.3 million to cover the cost increases projected for FY 2024. The costs in this category are allocated to the water and sewer systems.

For more activity within these groups, see *Supplemental Information - Enterprise-wide Operations & Maintenance Department and Account Level Amendments (Addendum 1)*.



Quarterly Budget Amendment Report  
FY 2024 Ending September 30, 2023

**Table 1E - Supplemental Information - Enterprise-wide Operations & Maintenance Account Type**

O&M Expense Categories (Account Type)	FY 2024 Board Adopted Budget	Total 1st Quarter FY 2024 Amendments	FY 2024 Amended Budget	FY 2024 Activity Thru 9/30/2023
Personnel Costs	\$ 120,887,100	\$ 285,000	\$ 121,172,100	\$ 29,577,600
Utilities	63,395,200	8,220,300	71,615,500	18,690,000
Chemicals	30,451,800	2,656,800	33,108,600	7,826,200
Supplies & Other	34,019,500	8,642,500	42,662,000	8,915,800
Contractual Services	106,889,200	4,874,200	111,763,400	27,453,400
Capital Program Allocation	(4,232,700)	-	(4,232,700)	(523,000)
Shared Services	(1,655,800)	-	(1,655,800)	(402,300)
Unallocated Reserve	8,795,800	-	8,795,800	-
<b>Total</b>	<b>\$ 358,550,100</b>	<b>\$ 24,678,800</b>	<b>\$ 383,228,900</b>	<b>\$ 91,537,700</b>

*Totals may be off due to rounding.*

The table above presents the Operations & Maintenance budget by the major expense categories (account type).

For additional detail and the explanation of the key changes to the FY 2024 budget within these categories, see *Supplemental Information - Enterprise-wide Operations & Maintenance Department and Account Level Amendments (Addendum 1)*.

For an additional view of the Operations & Maintenance budget by expense category (account type) and by departmental level, see *Supplemental Information - Enterprise-wide Operations & Maintenance Account Type and Departmental Level Amendments (Addendum 2)*.



Quarterly Budget Amendment Report  
FY 2024 Ending September 30, 2023

**Table 1F - Supplemental Information - Unallocated Reserve by Core Group**

	FY 2024 Board Adopted Budget	Total 1st Quarter FY 2024 Amendments	FY 2024 Amended Budget
<b>O&amp;M Unallocated Reserves</b>			
Water System Operations	\$ 3,331,400	\$ 9,900	\$ 3,341,300
Wastewater System Operations	3,089,900	(9,900)	3,080,000
Centralized Services	1,722,200	-	1,722,200
Administrative & Other Services	652,300	-	652,300
<b>Total</b>	<b>\$ 8,795,800</b>	<b>\$ -</b>	<b>\$ 8,795,800</b>

*Totals may be off due to rounding.*

An Unallocated Reserve account is established for each of the four core groups. Budget is assigned to these accounts to cover expenditures not known at the time the budget is developed (merit increases, fluctuations within maintenance contracts and usage of utilities and chemicals, projects and initiatives not planned at the time the initial budget was developed, etc.). It is GLWA's internal budget directive for each area, group, and team to manage their needs to an amount within the initial budget. If required, an amendment is made from the unallocated reserve. If an area does not require as much funding as was established in the original budget, that department's budgeted expenses are reduced, and the unallocated reserve is increased.

For additional information on the FY 2024 changes to the unallocated reserve, see *Supplemental Information - Enterprise-wide Operations & Maintenance Department and Account Level Amendments (Addendum 1)*.





Quarterly Budget Amendment Report  
FY 2024 Ending September 30, 2023

**Table 2A - Appropriation Level – Debt Service Coverage Calculation – Water System**

Water System - Debt Service Coverage Calculation	FY 2024 Adopted Budget	1st Quarter FY 2024 Amendments Regional System	Estimated Adjustment to Local System Budget	FY 2024 Amended Budget
<b>Revenues</b>				
1 Regional System Wholesale Revenues	\$366,077,800	\$ (4,000,000)	\$ -	\$362,077,800
2 Local System Revenues	89,140,400	-	-	89,140,400
3 Miscellaneous Revenue (Local System)	4,210,000	-	-	4,210,000
4 Non-Operating Revenue (Regional System)	4,236,700	8,265,000	-	12,501,700
<b>5 Total Revenues</b>	<b>\$463,664,900</b>	<b>\$ 4,265,000</b>	<b>\$ -</b>	<b>\$467,929,900</b>
<b>Revenue Requirements</b>				
<b>Operations &amp; Maintenance Expense</b>				
6 Regional System Wholesale Expenses	\$152,906,400	\$ 10,194,100	\$ -	\$163,100,500
7 Local System Expenses	44,756,000	-	-	44,756,000
8 GRS Pension allocable to Regional System	-	-	-	-
9 GRS Pension allocable to Local System	-	-	-	-
<b>10 Total Operations &amp; Maintenance Expense</b>	<b>197,662,400</b>	<b>10,194,100</b>	<b>-</b>	<b>207,856,500</b>
<b>11 Net Revenues after Operations &amp; Maintenance Expense</b>	<b>\$266,002,500</b>	<b>\$ (5,929,100)</b>	<b>\$ -</b>	<b>\$260,073,400</b>
<b>Debt Service by Lien</b>				
12 Senior Lien Bonds	\$136,224,100	\$ 3,653,400	\$ -	\$139,877,500
13 Second Lien Bonds	51,754,500	-	-	51,754,500
14 SRF Junior Lien Bonds	16,469,500	(502,200)	169,300	16,136,600
<b>15 Total Debt Service</b>	<b>\$204,448,100</b>	<b>\$ 3,151,200</b>	<b>\$ 169,300</b>	<b>\$207,768,600</b>
<b>Debt Service Coverage</b>				
16 Senior Lien Bonds (11)/(12)	1.95	(0.09)	0.00	1.86
17 Second Lien Bonds (11) / [(12)+(13)]	1.42	(0.06)	0.00	1.36
18 SRF Junior Lien Bonds (11) / (15)	1.30	(0.05)	0.00	1.25

\* Rows highlighted in light grey in the above table are designed to align with the DWSD Budget. The approved GLWA budget was based on preliminary DWSD budget information.

\*\* Total Debt Service, highlighted in dark grey (Row 15) in the above table, is adopted by the GLWA Board.



Quarterly Budget Amendment Report  
FY 2024 Ending September 30, 2023

Appropriation Level - Debt Service - Water System Debt Service Coverage Calculation Budget Amendment Explanation	
Total Debt Service	<i>For purposes of Debt Service coverage, we look at the combined Regional and Local (DWSD) revenue less operations &amp; maintenance (O&amp;M) expense to determine net revenues to calculate the Debt Service Coverage. The Board adopts the Debt Service amount shown on line 15 of the Water System Debt Service Coverage Calculation table on the previous page. This is the amount necessary to pay the principal and interest on all Regional Water System bonds and to restore any reserves therefore established in the Master Bond Ordinance.</i>



Quarterly Budget Amendment Report  
FY 2024 Ending September 30, 2023

**Table 2B - Appropriation Level – Debt Service Coverage Calculation – Sewer System**

Sewer System - Debt Service Coverage Calculation	FY 2024 Adopted Budget	1st Quarter FY 2024 Amendments Regional System	Estimated Adjustment to Local System Budget	FY 2024 Amended Budget
<b>Revenues</b>				
1 Regional System Wholesale Revenues	\$493,169,700	\$ -	\$ -	\$493,169,700
2 Local System Revenues	83,940,300	-	-	83,940,300
3 Miscellaneous Revenue (Local System)	8,500,000	-	-	8,500,000
4 Non-Operating Revenue (Regional System)	7,457,300	9,317,000	-	16,774,300
<b>5 Total Revenues</b>	<b>\$593,067,300</b>	<b>\$ 9,317,000</b>	<b>\$ -</b>	<b>\$602,384,300</b>
<b>Revenue Requirements</b>				
<b>Operations &amp; Maintenance Expense</b>				
6 Regional System Wholesale Expenses	\$205,643,700	\$ 14,484,700	\$ -	\$220,128,400
7 Local System Expenses	55,655,400	-	-	55,655,400
8 GRS Pension allocable to Regional System	-	-	-	-
9 GRS Pension allocable to Local System	-	-	-	-
<b>10 Total Operations &amp; Maintenance Expense</b>	<b>261,299,100</b>	<b>14,484,700</b>	<b>-</b>	<b>275,783,800</b>
<b>11 Net Revenues after Operations &amp; Maintenance Expense</b>	<b>\$331,768,200</b>	<b>\$ (5,167,700)</b>	<b>\$ -</b>	<b>\$326,600,500</b>
<b>Debt Service by Lien</b>				
12 Senior Lien Bonds	\$155,429,200	\$ 3,510,900	\$ -	\$158,940,100
13 Second Lien Bonds	53,273,500	106,600	-	53,380,100
14 SRF Junior Lien Bonds	51,847,200	(164,200)	(48,600)	51,634,400
<b>15 Total Debt Service</b>	<b>\$260,549,900</b>	<b>\$ 3,453,300</b>	<b>\$ (48,600)</b>	<b>\$263,954,600</b>
<b>Debt Service Coverage</b>				
16 Senior Lien Bonds (11)/(12)	2.13	(0.08)	0.00	2.05
17 Second Lien Bonds (11)/[(12)+(13)]	1.59	(0.05)	0.00	1.54
18 SRF Junior Lien Bonds (11)/(15)	1.27	(0.04)	0.00	1.24

\* Rows highlighted in light grey in the above table are designed to align with the DWSD Budget. The approved GLWA budget was based on preliminary DWSD budget information.

\*\* Total Debt Service, highlighted in dark grey (Row 15) in the above table, is adopted by the GLWA Board.



Quarterly Budget Amendment Report  
FY 2024 Ending September 30, 2023

Appropriation Level - Debt Service - Sewer System Debt Service Coverage Calculation Budget Amendment Explanation	
Total Debt Service	<i>For purposes of Debt Service coverage, we look at the combined Regional and Local (DWSD) revenue less operations &amp; maintenance (O&amp;M) expense to determine net revenues to calculate the Debt Service Coverage. The Board adopts the Debt Service amount shown on line 15 of the Sewer System Debt Service Coverage Calculation table on the previous page. This is the amount necessary to pay the principal and interest on all Regional Sewer System bonds and to restore any reserves therefore established in the Master Bond Ordinance.</i>



Quarterly Budget Amendment Report  
FY 2024 Ending September 30, 2023

**Table 3A - Appropriation Level – Improvement & Extension Fund – Water System**

Water Improvement & Extension Fund	FY 2024 Board Adopted Budget	Total 1st Quarter FY 2024 Amendments	FY 2024 Amended Budget	FY 2024 Activity Thru 9/30/2023
<b>Revenues</b>				
Water System Transfers In from General Operating	\$ 30,178,200	\$ (8,590,300)	\$ 21,587,900	\$ 7,544,600
Earnings on Investments (a)	1,694,800	510,400	2,205,200	1,496,500
Net Use (Increase) of Reserves	(10,926,100)	26,139,300	15,213,200	-
<b>Total Revenues</b>	\$ 20,946,900	\$ 18,059,400	\$ 39,006,300	\$ 9,041,100
<b>Expenditures</b>				
Water System Revenue Transfers Out (a)	\$ 1,694,800	\$ 510,400	\$ 2,205,200	\$ 1,498,400
Capital Spending - Other	-	-	-	-
Capital Outlay	11,539,100	(3,488,000)	8,051,100	2,652,200
Revenue Financed Capital - Transfer to/(from) Construction Fund	7,713,000	21,037,000	28,750,000	-
<b>Total Expenditures</b>	\$ 20,946,900	\$ 18,059,400	\$ 39,006,300	\$ 4,150,600

(a) Note: As outlined in the Master Bond Ordinance, the investment earnings in the I&E Fund are transferred to the Receiving Fund. The impact is to reduce revenue required from charges when calculating the annual Revenue Requirement budget.

<b>Appropriation Level – Improvement &amp; Extension Fund – Water System Budget Amendment Explanation</b>	
<b>Revenues</b>	
Transfers In from General Operating	<i>The proposed budget amendment is to match the amount available for transfer from the FY 2024 revenue requirement based upon general operating fund performance. (see I&amp;E Fund Transfer Pending line on the Appropriation Level-Revenue Requirement-Water System General Operating table).</i>



Quarterly Budget Amendment Report  
FY 2024 Ending September 30, 2023

<b>Appropriation Level – Improvement &amp; Extension Fund – Water System Budget Amendment Explanation</b>	
Earnings on Investments	<i>The increase is based on the revised interest rates. Note: There is a corresponding transfer of earnings back to the general operating fund as allowed by the Master Bond Ordinance. The net effect on the I&amp;E Fund is zero as the earnings are budgeted and accounted for in the operating fund to lower revenue requirement for charges.</i>
Net Use (Increase) of Reserves	<i>This amount represents the net amount of revenues less expenses. A negative amount represents an increase in reserves from current year activity rather than a use of reserves.</i>
<b>Expenditures</b>	
Water System Revenue Transfers Out (Earnings on Investments)	<i>The increase is based on the revised interest rates. Note: This line offsets Earnings on Investments and represents the transfer of earnings back to the general operating fund as allowed by the Master Bond Ordinance. Any variance in activity between the two lines represents a timing difference.</i>
Capital Spending - Other	<i>No budget amendment is required. This line represents an adjustment to the projects in the Board adopted capital improvement plan (CIP) that do not meet the criteria for debt financing as well as other unique, nonrecurring projects/purchases for the betterment of the system.</i>
Capital Outlay	<i>The proposed budget amendment reflects the decrease in spending which is primarily driven by the change in funding source (from O&amp;E to O&amp;M) for unique, nonrecurring items that cannot be capitalized (\$3.8 million decrease). The proposed amendment also includes an increase of \$0.3 million for changes in project start dates.</i>
Revenue Financed Capital – Transfer to/(from) Construction Fund	<i>The proposed budget amendment reflects a rebalancing of use of I&amp;E and Construction funds for Capital Projects.</i>



Quarterly Budget Amendment Report  
FY 2024 Ending September 30, 2023

**Table 3B - Appropriation Level - Improvement & Extension Fund – Sewer System**

Sewer Improvement & Extension Fund	FY 2024 Board Adopted Budget	Total 1st Quarter FY 2024 Amendments	FY 2024 Amended Budget	FY 2024 Activity Thru 9/30/2023
<b>Revenues</b>				
Sewer System Transfers In from General Operating	\$ 30,172,600	\$ (5,238,500)	\$ 24,934,100	\$ 7,543,100
Receipt of DWSD Shortfall Loan Interest	-	-	-	-
Earnings on Investments (a)	2,133,000	2,426,700	4,559,700	1,499,000
Net Use (Increase) of Reserves	(15,202,100)	40,795,300	25,593,200	-
<b>Total Revenues</b>	\$ 17,103,500	\$ 37,983,500	\$ 55,087,000	\$ 9,042,100
<b>Expenditures</b>				
Sewer System Revenue Transfers Out (a)	\$ 2,133,000	\$ 2,426,700	\$ 4,559,700	\$ 1,989,500
Capital Spending - Other	-	-	-	177,800
Capital Outlay	14,970,500	(3,443,200)	11,527,300	1,156,100
Revenue Financed Capital - Transfer to/(from) Construction Fund	-	39,000,000	39,000,000	-
<b>Total Expenditures</b>	\$ 17,103,500	\$ 37,983,500	\$ 55,087,000	\$ 3,323,400

(a) Note: As outlined in the Master Bond Ordinance, the investment earnings in the I&E Fund are transferred to the Receiving Fund. The impact is to reduce revenue required from charges when calculating the annual Revenue Requirement budget.

<b>Appropriation Level – Improvement &amp; Extension Fund – Sewer System Budget Amendment Explanations</b>	
<b>Revenues</b>	
Transfers In from General Operating	<i>The proposed budget amendment is to match the amount available for transfer from the FY 2024 revenue requirement based upon general operating fund performance. (see I&amp;E Fund Transfer Pending line on the Appropriation Level-Revenue Requirement-Sewer System General Operating table).</i>



Quarterly Budget Amendment Report  
FY 2024 Ending September 30, 2023

<b>Appropriation Level – Improvement &amp; Extension Fund – Sewer System Budget Amendment Explanations</b>	
Earnings on Investments	<i>The increase is based on the revised interest rates. Note: There is a corresponding transfer of earnings back to the general operating fund as allowed by the Master Bond Ordinance. The net effect on the I&amp;E Fund is zero as the earnings are budgeted and accounted for in the operating fund to lower revenue requirement for charges.</i>
Net Use (Increase) of Reserves	<i>This amount represents the net amount of revenues less expenditures. A negative amount represents an increase in reserves from current year activity rather than a use of reserves.</i>
<b>Expenditures</b>	
Sewer System Revenue Transfers Out (Earnings on Investments)	<i>The increase is based on the revised interest rates. Note: This line offsets Earnings on Investments and represents the transfer of earnings back to the general operating fund as allowed by the Master Bond Ordinance. Any variance in activity between the two lines represents a timing difference.</i>
Capital Spending – Other	<i>No budget amendment is required. This line represents an adjustment to the projects in the Board adopted capital improvement plan (CIP) that do not meet the criteria for debt financing as well as other unique, nonrecurring projects/purchases for the betterment of the system.</i>
Capital Outlay	<i>The proposed budget amendment reflects the decrease in spending which is primarily driven by the change in funding source (from O&amp;E to O&amp;M) for unique, nonrecurring items that cannot be capitalized (\$3.8 million decrease). The proposed amendment also includes an increase of \$0.4 million for changes in project start dates.</i>
Revenue Financed Capital – Transfer to/(from) Construction Fund	<i>The proposed budget amendment reflects a rebalancing of use of I&amp;E and Construction funds for Capital Projects.</i>





Quarterly Budget Amendment Report  
FY 2024 Ending September 30, 2023

**Table 4A - Appropriation Level – Construction Fund – Water System**

Water Construction Fund	FY 2024 Board Adopted Budget	Total 1st Quarter FY 2024 Amendments	FY 2024 Amended Budget	FY 2024 Activity Thru 9/30/2023
<b>Revenues</b>				
Transfer (to)/from Improvement & Extension Fund	\$ 7,713,000	\$ 21,037,000	\$ 28,750,000	\$ -
Bond Proceeds	-	150,000,000	150,000,000	-
Bond Fund Earnings on Investments	1,864,700	3,500,000	5,364,700	1,532,800
Grant Revenues (SRF Loans)	97,102,000	(34,297,000)	62,805,000	13,800,800
Net Use (Increase) of Reserves	132,580,300	(154,500,000)	(21,919,700)	-
<b>Total Revenues</b>	<b>\$ 239,260,000</b>	<b>\$ (14,260,000)</b>	<b>\$ 225,000,000</b>	<b>\$ 15,333,600</b>
<b>Expenditures</b>				
Transfer Out	\$ -	\$ -	\$ -	\$ -
Capital Improvement Plan (a)	239,260,000	(14,260,000)	225,000,000	36,102,500
Capital Spend Rate Adjustment	-	-	-	-
<b>Total Expenditures (a)</b>	<b>\$ 239,260,000</b>	<b>\$ (14,260,000)</b>	<b>\$ 225,000,000</b>	<b>\$ 36,102,500</b>
<i>(a) Plus Direct I&amp;E Projects</i>	-	-	-	
<i>Total CIP Expenditures</i>	<i>239,260,000</i>	<i>(14,260,000)</i>	<i>225,000,000</i>	
<i>Total Published Capital Improvement Plan</i>	<i>239,260,000</i>		<i>239,260,000</i>	
<i>Capital Spending Ratio</i>	<i>100.0%</i>		<i>94.0%</i>	

(a) Note: As outlined in the Master Bond Ordinance, the investment earnings in the I&E Fund are transferred to the Receiving Fund. The impact is to reduce revenue required from charges when calculating the annual Revenue Requirement budget.



Quarterly Budget Amendment Report  
FY 2024 Ending September 30, 2023

<b>Appropriation Level – Construction Fund – Water System Budget Amendment Explanations</b>	
<b>Revenues</b>	
Transfers (to)/from Improvement & Extension Fund	<i>The proposed budget amendment is to match the amount available for transfer to the FY 2024 Improvement &amp; Extension Fund (see Revenue Financed Capital-Operating Transfer to/from Construction Fund line on the Appropriation Level-Improvement &amp; Extension Fund-Water System table). The proposed budget amendment reflects a rebalancing of use of I&amp;E and Construction funds for Capital Projects.</i>
Bond Proceeds	<i>The proposed budget amendment is to record the proceeds from the November 2023 bond transaction.</i>
Earnings on Investments	<i>The proposed budget amendment reflects the estimated investment earnings from the November 2023 bond transaction as well as an adjustment based on the revised interest rates provided by the Authority's investment advisor.</i>
Grant Revenues (State Revolving Fund Loans)	<i>State Revolving Fund (SRF) loan disbursements are on a reimbursement basis. The amount and timing of revenues fluctuates with project expenditures incurred. The proposed amendment reflects the timing of project design and construction activity. Details related to the SRF projects are presented in the semiannual debt report. The most recent semiannual debt report is presented in the <a href="#">November 2023 Audit Committee binder</a> which provides details related to the SRF funding and associated projects.</i>
Net Use (increase) of Reserves	<i>This amount represents the net amount of revenues less expenditures. A "use of reserves" indicates a spend down of prior year reserves. The amount has been amended to reflect the anticipated decrease in the Capital spend rate from 100.0% to 94.0% as well as the changes in revenues from Bond proceeds, SRF loans, and transfer (to)/from the I&amp;E fund.</i>
<b>Expenditures</b>	
Capital Improvement Plan	<i>This line represents an adjustment to the Capital Spend Ratio for the Water Capital Improvement Plan which is forecasted to decrease from 100.0% to 94.0%. This adjustment is based on a review of the spend projections for FY 2024 and discussions with project personnel.</i>



Quarterly Budget Amendment Report  
FY 2024 Ending September 30, 2023

Appropriation Level – Construction Fund – Water System Budget Amendment Explanations	
Capital Spend Rate Assumption Adjustment	<i>The proposed budget amendment represents the decrease in the projected Capital Spend Rate for the Water CIP from 100.0% to 94.0%. The Board of Directors adopts a capital spending ratio assumption (SRA) which allows the realities of capital program delivery to align with the financial plan. The SRA is an analytical approach to bridge the total dollar amount of projects in the CIP with what can realistically be spent due to limitations beyond GLWA's control and/or delayed for nonbudgetary reasons. Those limitations, whether financial or non-financial, necessitate the SRA for budgetary purposes, despite the prioritization established. Amendments to the spend rate assumption are made to align the projected financial use of resources with revised capital improvement plan spending forecasts. The most recent quarterly construction work-in-progress (CWIP) report is presented in the <a href="#">September 2023 Audit Committee binder</a>.</i>



Quarterly Budget Amendment Report  
FY 2024 Ending September 30, 2023

**Table 4B - Appropriation Level – Construction Fund – Sewer System**

Sewer Construction Fund	FY 2024 Board Adopted Budget	Total 1st Quarter FY 2024 Amendments	FY 2024 Amended Budget	FY 2024 Activity Thru 9/30/2023
<b>Revenues</b>				
Transfer (to)/from Improvement & Extension Fund	\$ -	\$ 39,000,000	\$ 39,000,000	\$ -
Bond Proceeds	-	100,000,000	100,000,000	-
Bond Fund Earnings on Investments	2,365,600	4,500,000	6,865,600	1,955,200
Grant Revenues (SRF Loans)	47,253,000	7,423,000	54,676,000	8,603,100
Net Use (Increase) of Reserves	149,442,400	(184,984,000)	(35,541,600)	-
<b>Total Revenues</b>	<b>\$ 199,061,000</b>	<b>\$ (34,061,000)</b>	<b>\$ 165,000,000</b>	<b>\$ 10,558,300</b>
<b>Expenditures</b>				
Transfer Out	\$ -	\$ -	\$ -	\$ -
Capital Improvement Plan (a)	199,061,000	(34,061,000)	165,000,000	24,952,100
Capital Spend Rate Adjustment	-	-	-	-
<b>Total Expenditures (a)</b>	<b>\$ 199,061,000</b>	<b>\$ (34,061,000)</b>	<b>\$ 165,000,000</b>	<b>\$ 24,952,100</b>
<i>(a) Plus Direct I&amp;E Projects</i>	-	-	-	
<i>Total CIP Expenditures</i>	<i>199,061,000</i>	<i>(34,061,000)</i>	<i>165,000,000</i>	
<i>Total Published Capital Improvement Plan</i>	<i>199,061,000</i>		<i>199,061,000</i>	
<i>Capital Spending Ratio</i>	<i>100.0%</i>		<i>82.9%</i>	

(b) Note: As outlined in the Master Bond Ordinance, the investment earnings in the I&E Fund are transferred to the Receiving Fund. The impact is to reduce revenue required from charges when calculating the annual Revenue Requirement budget.



Quarterly Budget Amendment Report  
FY 2024 Ending September 30, 2023

<b>Appropriation Level – Construction Fund – Sewer System Budget Amendment Explanations</b>	
<b>Revenues</b>	
Transfers (to)/from Improvement & Extension Fund	<i>The proposed budget amendment is to match the amount available for transfer from the FY 2024 Improvement &amp; Extension Fund (see Revenue Financed Capital-Operating Transfer to/from Construction Fund line on the Appropriation Level-Improvement &amp; Extension Fund-Sewer System table). The proposed budget amendment reflects a rebalancing of use of I&amp;E and Construction funds for Capital Projects.</i>
Bond Proceeds	<i>The proposed budget amendment is to record the proceeds from the November 2023 bond transaction.</i>
Earnings on Investments	<i>The proposed budget amendment reflects the estimated investment earnings from the November 2023 bond transaction as well as an adjustment based on the revised interest rates provided by the Authority's investment advisor.</i>
Grant Revenues (State Revolving Fund Loans)	<i>State Revolving Fund (SRF) loan disbursements are on a reimbursement basis. The amount and timing of funds fluctuates with project expenditures incurred. The proposed amendment reflects the timing of project design and construction activity. Details related to the SRF projects are presented in the semiannual debt report. The most recent semiannual debt report is presented in the <a href="#">November 2023 Audit Committee binder</a> which provides details related to the SRF funding and associated projects.</i>
Net Use (Increase) of Reserves	<i>This amount represents the net amount of revenues less expenditures. A “use of reserves” indicates a spend down of prior year reserves. The amount has been amended to reflect the anticipated decrease in the Capital spend rate from 100.0% to 82.9% as well as the changes in revenues from Bond proceeds, SRF loans, and transfer (to)/from the I&amp;E fund.</i>
<b>Expenditures</b>	



Quarterly Budget Amendment Report  
FY 2024 Ending September 30, 2023

<b>Appropriation Level – Construction Fund – Sewer System Budget Amendment Explanations</b>	
Capital Improvement Plan	<i>This line represents an adjustment to the Capital Spend Ratio for the Sewer Capital Improvement Plan which is forecasted to decrease from 100.0% to 82.9%. This adjustment is based on a review of the spend projections for FY 2024 and discussions with project personnel.</i>
Capital Spend Rate Adjustment	<i>The proposed budget amendment represents the decrease in the projected Capital Spend Rate for the Sewer CIP from 100.0% to 82.9%. The Board of Directors adopts a capital spending ratio assumption (SRA) which allows the realities of capital program delivery to align with the financial plan. The SRA is an analytical approach to bridge the total dollar amount of projects in the CIP with what can realistically be spent due to limitations beyond GLWA's control and/or delayed for nonbudgetary reasons. Those limitations, whether financial or non-financial, necessitate the SRA for budgetary purposes, despite the prioritization established. Amendments to the spend rate assumption are made to align the projected financial use of resources with revised capital improvement plan spending forecasts. The most recent quarterly construction work-in-progress (CWIP) report is presented in the <a href="#">September 2023 Audit Committee binder</a>.</i>



## ADDENDUM 1

### *Supplemental Information –*

### *Enterprise-wide Operations & Maintenance Department and Account Level Amendments*

The summary of budget amendments for operations & maintenance (department and account level amendments) are organized by the four core groups. The FY 2024 first quarter budget amendments result in an increase to all four categories: A - Water System Operations, B - Sewer System Operations, C – Centralized Services, and D – Administrative & Other Services.

GLWA's internal budget directive is for each area, group, and team to manage their needs to an amount within the initial budget. To the extent that is not possible, an amendment is made from the unallocated reserve. If savings are incurred, or an area appears to not require as much funding as established in the original budget, that department's budgeted expenses are reduced, and the unallocated reserve is increased. In administering the budget, there are several refinements to departments and account categories. An explanation of key items is included in the table in Addendum 1.

Items greater than \$500,000 include the following (see the table on the following page).

- A – Water System Operations – Net change = \$5.0 million
  - Utilities – Increase of \$3.7 million – Details can be found in *Addendum 2 – Supplemental Information – Enterprise-wide Operations & Maintenance Account Type and Department Level Amendments*.
  - Chemicals – Increase of \$1.0 million – Adjustment for increase in chemical costs, primarily Chlorine, Phosphoric Acid, Hydrofluorosilicic Acid (Fluoride), and Alum based on estimated usage for FY 2024 and current pricing.
  - Contractual Services – Increase of \$0.4 million – This increase is due to the Arcadis comprehensive corrosion control optimization study which is ramping up in FY 2024.
- B – Wastewater System Operations – Net change = \$8.7 million.
  - Utilities – Increase of \$4.5 million – Details can be found in *Addendum 2 – Supplemental Information – Enterprise-wide Operations & Maintenance Account Type and Department Level Amendments*.
  - Chemicals – Increase of \$1.6 million – Adjustment for increase in chemical costs (primarily chlorine-based products) based on estimated usage for FY 2024.

## ADDENDUM 1

### *Supplemental Information –*

#### *Enterprise-wide Operations & Maintenance Department and Account Level Amendments*

- Supplies & Other – Increase of \$1.5 million – This increase is primarily due to the increased need for the repairs to, and replacement of, equipment. Increases include Conner Creek Combined Sewer Overflow – hypochlorite tank relining project (\$0.6 million increase); Conner Pumping Station – increase maintenance for HVAC repairs (\$0.5 million increase); Wastewater Primary Process – equipment repairs to improve the rack & grit system and primary clarification (\$1.0 million increase); Wastewater Secondary Process – rehabilitation of the secondary clarifier and scum brush system (\$0.4 million increase). Decreases include Wastewater Incineration Process – reduction in the number of incineration hearths being rehabilitated each year (\$0.7 million decrease).
- Contractual Services – Increase of \$1.1 million – Continued reliance on the utilization of the facilities maintenance contract with Lakeshore Global Corporation.
- C – Centralized Services – Increase of \$9.6 million
  - Supplies & Other – Increase of \$7.3 million – The primary driver for the increase in this category is the change in the funding source, from Improvement & Extension (I&E) funds to Operations & Maintenance (O&M) funds for unique, nonrecurring items that cannot be capitalized such as the implementation costs for the Enterprise Resource Planning (ERP - Workday), Enterprise Asset Management (EAM – NexGen), and Project Management Implementation System (PMIS).
  - Contractual Services – Increase of \$2.3 million – The primary drivers for the increase in this category are as follows: Funding source change from I&E funds to O&M funds for the support needed from AECOM for the Capital Improvement Plan (\$1.8 million increase) and the increased utilization by Systems Control of the specialize services contracts for the remote site work on sewer level sensors and debris removal (\$0.8 million increase). A decrease includes an adjustment for the emergency sewer repairs as-needed contract (Inland Waters) based on the historical spending trend.
- D – Administrative & Other Services – Increase of \$1.3 million – The primary change in this area is an increase in Contractual Services of \$1.1 million. This increase is primarily due to the following: Enterprise Risk Management Insurance Fund (\$0.6 million increase) due to increases in the business insurance premiums and General Counsel (\$0.5 million increase) due to the tapering litigation and investigation costs from the June 2021 wet weather event.



**ADDENDUM 1**

*Supplemental Information –  
Enterprise-wide Operations & Maintenance Department and Account Level Amendments*

The table below shows the first quarter FY 2024 budget amendments per Expense Category for the four core groups.

<b>Major Budget Categories and Expense Categories</b>	<b>Total 1st Quarter FY 2024 Amendments</b>
<b>A Water System Operations</b>	<b>5,005,400</b>
Chemicals	1,000,000
Contractual Services	418,000
Supplies & Other	(174,500)
Unallocated Reserve	9,900
Utilities	3,752,000
<b>B Wastewater System Operations</b>	<b>8,721,500</b>
Chemicals	1,656,800
Contractual Services	1,100,000
Supplies & Other	1,506,300
Unallocated Reserve	(9,900)
Utilities	4,468,300
<b>C Centralized Services</b>	<b>9,636,900</b>
Contractual Services	2,256,200
Personnel	70,000
Supplies & Other	7,310,700
Unallocated Reserve	-
<b>D Administrative &amp; Other Service:</b>	<b>1,315,000</b>
Contractual Services	1,100,000
Personnel	215,000
<b>Grand Total</b>	<b>24,678,800</b>

## ADDENDUM 1

Supplemental Information  
Enterprise-wide Operations & Maintenance Department and Account Level Amendments

Departmental and Account Level Amendments		Total 1st Quarter FY 2024 Amendments	Explanation of Key Items
<b>A</b>	<b>Water System Operations</b>	<b>5,005,400</b>	
	<b>Adams Road Pumping Station</b>	<b>50,000</b>	
	Supplies & Other	(40,000)	
	Utilities	90,000	
	<b>Eastside Pumping Station</b>	<b>20,000</b>	
	Utilities	20,000	
	<b>Haggerty Road Pumping Station</b>	<b>36,000</b>	
	Utilities	36,000	
	<b>Joy Road Pumping Station</b>	<b>55,000</b>	
	Supplies & Other	(20,000)	
	Utilities	75,000	
	<b>Lake Huron Water Plant</b>	<b>770,000</b>	
	Chemicals	70,000	
	Contractual Services	100,000	
	Utilities	600,000	Increase in KWH charges and power supply cost recovery charges.
	<b>Michigan Ave Pumping Station</b>	<b>50,000</b>	
	Utilities	50,000	
	<b>Newburgh Pumping Station</b>	<b>28,000</b>	
	Utilities	28,000	
	<b>North Service Center Pumping Station</b>	<b>(40,000)</b>	
	Supplies & Other	(100,000)	
	Utilities	60,000	
	<b>Northeast Water Plant</b>	<b>1,100,000</b>	
	Chemicals	100,000	
	Utilities	1,000,000	Increase in KWH charges and power supply cost recovery charges.
	<b>Northwest Pumping Station</b>	<b>20,000</b>	
	Utilities	20,000	
	<b>Schoolcraft Pumping Station</b>	<b>20,000</b>	
	Supplies & Other	20,000	
	<b>Southwest Water Plant</b>	<b>200,000</b>	
	Chemicals	50,000	
	Contractual Services	150,000	
	<b>Springwells Water Plant</b>	<b>1,410,000</b>	
	Chemicals	410,000	Increase in chemical prices, especially Phosphoric acid
	Utilities	1,000,000	Increase in KWH charges and power supply cost recovery charges.
	<b>Water Engineering</b>	<b>5,500</b>	
	Supplies & Other	5,500	
	<b>Water Quality</b>	<b>70,000</b>	
	Chemicals	70,000	
	<b>Water System Operations Unallocated Reserves</b>	<b>9,900</b>	
	Unallocated Reserve	9,900	
	<b>Water Works Park</b>	<b>878,000</b>	
	Chemicals	300,000	
	Contractual Services	178,000	
	Utilities	400,000	Increase in KWH charges and power supply cost recovery charges.
	<b>West Service Center Pumping Station</b>	<b>163,000</b>	
	Supplies & Other	(40,000)	
	Utilities	203,000	
	<b>Wick Road Pumping Station</b>	<b>70,000</b>	
	Utilities	70,000	
	<b>Ypsilanti Pumping Station</b>	<b>90,000</b>	
	Contractual Services	(10,000)	
	Utilities	100,000	
<b>B</b>	<b>Wastewater System Operations</b>	<b>8,721,500</b>	
	<b>7 Mile Combined Sewer Overflow</b>	<b>1,200</b>	
	Utilities	1,200	
	<b>Baby Creek Combined Sewer Overflow</b>	<b>(88,000)</b>	
	Chemicals	208,200	
	Supplies & Other	(297,900)	
	Utilities	1,700	
	<b>BDF, COF &amp; Hauling</b>	<b>316,400</b>	
	Utilities	316,400	
	<b>Belle Isle Combined Sewer Overflow</b>	<b>4,400</b>	
	Chemicals	4,400	
	<b>Belle Isle Pumping Station</b>	<b>20,000</b>	
	Supplies & Other	20,000	
	<b>Blue Hill Pumping Station</b>	<b>150,000</b>	
	Supplies & Other	150,000	
	<b>Conner Creek Combined Sewer Overflow</b>	<b>912,300</b>	
	Chemicals	128,300	
	Supplies & Other	646,000	Hypochlorite tank relining project.
	Utilities	138,000	
	<b>Conner Pumping Station</b>	<b>500,000</b>	
	Supplies & Other	500,000	Increase maintenance for HVAC repairs.
	<b>Fairview Pumping Station</b>	<b>150,000</b>	
	Utilities	150,000	

## ADDENDUM 1

Supplemental Information  
Enterprise-wide Operations & Maintenance Department and Account Level Amendments

Departmental and Account Level Amendments		Total 1st Quarter FY 2024	Explanation of Key Items
<b>Hubble Southfield CSO</b>		<b>(16,700)</b>	
Chemicals		(14,500)	
Supplies & Other		(25,700)	
Utilities		23,500	
<b>Leib Combined Sewer Overflow</b>		<b>60,400</b>	
Chemicals		56,600	
Utilities		3,800	
<b>Northeast Pumping Station</b>		<b>50,000</b>	
Utilities		50,000	
<b>Oakwood Combined Sewer Overflow</b>		<b>858,500</b>	
Chemicals		(139,500)	
Supplies & Other		33,000	
Utilities		965,000	Increase in water & sewage charges due to new water billing structure which has resulted in an increase in the water billing rate.
<b>Oakwood Pumping Station</b>		<b>14,000</b>	
Supplies & Other		14,000	
<b>Puritan Fenkell Combined Sewer Overflow</b>		<b>4,400</b>	
Chemicals		(10,600)	
Utilities		15,000	
<b>St Aubin Combined Sewer Overflow</b>		<b>35,100</b>	
Chemicals		31,900	
Utilities		3,200	
<b>Wastewater Dewatering Process</b>		<b>(340,900)</b>	
Chemicals		(319,000)	
Supplies & Other		(21,900)	
<b>Wastewater Director</b>		<b>1,144,600</b>	
Contractual Services		1,100,000	Continued reliance on facilities maintenance contract (Lakeshore Global Corporation).
Supplies & Other		44,600	
<b>Wastewater Incineration Process</b>		<b>(742,800)</b>	
Supplies & Other		(742,800)	Management of the number of incineration hearths being rehabilitated each year.
<b>Wastewater Operations</b>		<b>2,538,400</b>	
Supplies & Other		(262,100)	
Utilities		2,800,500	Water - Increase due to new water billing structure which has resulted in an increase in the water billing rate. Gas - Decrease in cost per MBTU for natural gas.
<b>Wastewater Primary Process</b>		<b>1,392,700</b>	
Chemicals		412,000	Unit cost of Chlorine based chemicals increased due to supplier constraints.
Supplies & Other		980,700	Equipment repairs to improve the rack & grit system and primary clarification.
<b>Wastewater Process Control</b>		<b>40,000</b>	
Supplies & Other		40,000	
<b>Wastewater Secondary Process</b>		<b>1,727,400</b>	
Chemicals		1,299,000	Unit cost of Chlorine based chemicals increased due to supplier constraints.
Supplies & Other		428,400	Rehabilitation of the secondary clarifier and scum brush system.
<b>Wastewater System Operations Unallocated Reserves</b>		<b>(9,900)</b>	
Unallocated Reserve		(9,900)	
<b>C Centralized Services</b>		<b>9,636,900</b>	
<b>Capital Improvement Planning</b>		<b>1,800,000</b>	
Contractual Services		1,800,000	AECOM - Maintenance of portal for development of CIP; funding change from I&E to O&M.
<b>Facility Operations</b>		<b>(50,000)</b>	
Supplies & Other		(50,000)	
<b>Field Service Operations</b>		<b>(430,000)</b>	
Contractual Services		(500,000)	Budget adjustment for emergency sewer repairs as-needed contract (Inland Waters) based on historical spending trend.
Personnel		70,000	
<b>Fleet Operations</b>		<b>177,500</b>	
Contractual Services		200,000	
Supplies & Other		(22,500)	
<b>Info Tech Business Productivity Systems</b>		<b>4,000,000</b>	
Supplies & Other		4,000,000	Enterprise Resource Planning (Workday) implementation costs; funding change from I&E to O&M.
<b>Info Tech Enterprise Asset Mgmt Systems</b>		<b>3,000,000</b>	
Supplies & Other		3,000,000	Enterprise Asset Management (NexGen) & Project Management Implementation System implementation costs; funding change from I&E to O&M.
<b>Security and Integrity</b>		<b>83,200</b>	
Supplies & Other		83,200	
<b>Systems Analytics</b>		<b>300,000</b>	
Supplies & Other		300,000	
<b>Systems Operations Control</b>		<b>756,200</b>	
Contractual Services		756,200	Increase utilization of the level sensor rehab and debris removal projects.
<b>D Administrative &amp; Other Services</b>		<b>1,315,000</b>	
<b>Chief Administrative Officer</b>		<b>215,000</b>	
Personnel		215,000	
<b>Enterprise Risk Mgt. Insurance Fund</b>		<b>600,000</b>	
Contractual Services		600,000	Increase in costs for the Risk Management Insurance Coverage policies with Marsh USA Inc.
<b>General Counsel</b>		<b>500,000</b>	
Contractual Services		500,000	Tapering litigation and investigation costs from the June 2021 wet weather event.
<b>Grand Total</b>		<b>24,678,800</b>	

Totals may be off due to rounding



## **ADDENDUM 2**

### *Supplemental Information –*

#### *Enterprise-wide Operations & Maintenance Account Type and Department Level Amendments*

The table in Addendum 2 summarizes the FY 2024 first quarter budget amendments for operations & maintenance by the major expense categories (account type). An explanation of key items is included in the table in Addendum 2.

One of the primary increases in budget for the first quarter FY 2024 was in utilities (\$8.2 million increase).

- A – Water System Operations – Increase of \$3.7 million – The primary driver for the increase in this category is electric (\$3.7 million increase) – This increase is due to the increased charge for kWh.
- B – Wastewater System Operations – Increase of \$4.5 million
  - Water & Sewage Service – Increase of \$4.6 million. Meters have been repaired and replaced at the WRRF (Water Resource Recovery Facility) and bills which had previously contained estimated readings are now being received with actual readings. The actual readings are coming in higher than the estimated readings. In addition, a new water billing structure was implemented in early FY 2023 which has resulted in an increase in the water billing rate. The wastewater facilities impacted most substantially by this rate increase are the WRRF, Oakwood Combined Sewer Overflow, Conner Creek Combined Sewer Overflow, and the Biosolids Dryer Facility (BDF).
  - Electric – Increase of \$0.2 million - This is due to the increased charge for kWh.
  - Gas – Decrease of \$0.3 million – This is due to a decrease in cost per MBTU for natural gas.

**ADDENDUM 2***Supplemental Information –**Enterprise-wide Operations & Maintenance Account Type and Department Level Amendments*

<b>Utilities</b>		<b>Total 1st Quarter FY 2024 Amendments</b>
<b>A</b>	<b>Water System Operations</b>	<b>3,752,000</b>
	Electric	3,749,000
	Gas	3,000
<b>B</b>	<b>Wastewater System Operations</b>	<b>4,468,300</b>
	Electric	200,000
	Gas	(306,000)
	Sewage Service	309,700
	Water Service	4,264,600
<b>Grand Total</b>		<b>8,220,300</b>

## ADDENDUM 2

Supplemental Information  
Enterprise-wide Operations & Maintenance  
Account Type and Department Level Amendments

Expense Categories and Departmental Level Amendments	Total 1st Quarter FY 2024 Amendments	Explanation of Key Items
<b>Chemicals</b>	<b>2,656,800</b>	
Baby Creek Combined Sewer Overflow	208,200	
Belle Isle Combined Sewer Overflow	4,400	
Conner Creek Combined Sewer Overflow	128,300	
Hubble Southfield CSO	(14,500)	
Lake Huron Water Plant	70,000	
Leib Combined Sewer Overflow	56,600	
Northeast Water Plant	100,000	
Oakwood Combined Sewer Overflow	(139,500)	
Puritan Fenkell Combined Sewer Overflow	(10,600)	
Southwest Water Plant	50,000	
Springwells Water Plant	410,000	Increase in chemical prices, especially Phosphoric acid
St Aubin Combined Sewer Overflow	31,900	
Wastewater Dewatering Process	(319,000)	
Wastewater Primary Process	412,000	Unit cost of Chlorine based chemicals increased due to supplier constraints.
Wastewater Secondary Process	1,299,000	Unit cost of Chlorine based chemicals increased due to supplier constraints.
Water Quality	70,000	
Water Works Park	300,000	
<b>Contractual Services</b>	<b>4,874,200</b>	
Capital Improvement Planning	1,800,000	AECOM - Maintenance of portal for development of CIP; funding change from I&E to O&M.
Enterprise Risk Mgt. Insurance Fund	600,000	Increase in costs for the Risk Management Insurance Coverage policies with Marsh USA Inc.
Field Service Operations	(500,000)	Budget adjustment for emergency sewer repairs as-needed contract (Inland Waters) based on historical spending trend.
Fleet Operations	200,000	
General Counsel	500,000	Tapering litigation and investigation costs from the June 2021 wet weather event.
Lake Huron Water Plant	100,000	
Southwest Water Plant	150,000	
Systems Operations Control	756,200	Increase utilization of the level sensor rehab and debris removal projects.
Wastewater Director	1,100,000	Continued reliance on facilities maintenance contract (Lakeshore Global Corporation).
Water Works Park	178,000	
Ypsilanti Pumping Station	(10,000)	
<b>Personnel</b>	<b>285,000</b>	
Chief Administrative Officer	215,000	
Field Service Operations	70,000	
<b>Supplies &amp; Other</b>	<b>8,642,500</b>	
Adams Road Pumping Station	(40,000)	
Baby Creek Combined Sewer Overflow	(297,900)	
Belle Isle Pumping Station	20,000	
Blue Hill Pumping Station	150,000	
Conner Creek Combined Sewer Overflow	646,000	Hypochlorite tank relining project.
Conner Pumping Station	500,000	Increase maintenance for HVAC repairs.
Facility Operations	(50,000)	
Fleet Operations	(22,500)	
Hubble Southfield CSO	(25,700)	
Info Tech Business Productivity Systems	4,000,000	Enterprise Resource Planning (Workday) implementation costs; funding change from I&E to O&M.
Info Tech Enterprise Asset Mgmt Systems	3,000,000	Enterprise Asset Management (NexGen) & Project Management Implementation System implementation costs; funding change from I&E to O&M.
Joy Road Pumping Station	(20,000)	
North Service Center Pumping Station	(100,000)	
Oakwood Combined Sewer Overflow	33,000	
Oakwood Pumping Station	14,000	
Schoolcraft Pumping Station	20,000	
Security and Integrity	83,200	
Systems Analytics	300,000	
Wastewater Dewatering Process	(21,900)	
Wastewater Director	44,600	
Wastewater Incineration Process	(742,800)	Management of the number of incineration hearths being rehabilitated each year.
Wastewater Operations	(262,100)	
Wastewater Primary Process	980,700	Equipment repairs to improve the rack & grit system and primary clarification.
Wastewater Process Control	40,000	
Wastewater Secondary Process	428,400	Rehabilitation of the secondary clarifier and scum brush system.
Water Engineering	5,500	
West Service Center Pumping Station	(40,000)	
<b>Unallocated Reserve</b>	<b>-</b>	
Wastewater System Operations Unallocated Reserves	(9,900)	
Water System Operations Unallocated Reserves	9,900	

## ADDENDUM 2

Supplemental Information  
Enterprise-wide Operations & Maintenance  
Account Type and Department Level Amendments

Expense Categories and Departmental Level Amendments	Total 1st Quarter FY 2024 Amendments	Explanation of Key Items
<b>Utilities</b>	<b>8,220,300</b>	
7 Mile Combined Sewer Overflow	1,200	
Adams Road Pumping Station	90,000	
Baby Creek Combined Sewer Overflow	1,700	
BDF, COF & Hauling	316,400	
Conner Creek Combined Sewer Overflow	138,000	
Eastside Pumping Station	20,000	
Fairview Pumping Station	150,000	
Haggerty Road Pumping Station	36,000	
Hubble Southfield CSO	23,500	
Joy Road Pumping Station	75,000	
Lake Huron Water Plant	600,000	Increase in KWH charges and power supply cost recovery charges.
Leib Combined Sewer Overflow	3,800	
Michigan Ave Pumping Station	50,000	
Newburgh Pumping Station	28,000	
North Service Center Pumping Station	60,000	
Northeast Pumping Station	50,000	
Northeast Water Plant	1,000,000	Increase in KWH charges and power supply cost recovery charges.
Northwest Pumping Station	20,000	
Oakwood Combined Sewer Overflow	965,000	Increase in water & sewage charges due to new water billing structure which has resulted in an increase in the water billing rate.
Puritan Fenkell Combined Sewer Overflow	15,000	
Springwells Water Plant	1,000,000	Increase in KWH charges and power supply cost recovery charges.
St Aubin Combined Sewer Overflow	3,200	
Wastewater Operations	2,800,500	Water - Increase due to new water billing structure which has resulted in an increase in the water billing rate. Gas - Decrease in cost per MBTU for natural gas.
Water Works Park	400,000	Increase in KWH charges and power supply cost recovery charges.
West Service Center Pumping Station	203,000	
Wick Road Pumping Station	70,000	
Ypsilanti Pumping Station	100,000	
<b>Grand Total</b>	<b>24,678,800</b>	

Totals may be off due to rounding

**Great Lakes Water Authority**

**Resolution 2023-467**

**Resolution Adopting the Budget Amendments through the First Quarter of FY 2024**

By Board Member:

**WHEREAS** The Great Lakes Water Authority (“GLWA” or the “Authority”) assumed the operation of the regional water and sewer systems on January 1, 2016 (the “Effective Date”) pursuant to Water System and Sewer System Lease Agreements between the GLWA and the City of Detroit dated June 12, 2015; and

**WHEREAS** In accordance with the by-laws of the GLWA, further defined by its budget amendment policy, the Board shall amend the budget as needed based upon a quarterly report from the Chief Financial Officer; and

**WHEREAS** The GLWA Board adopted the FY 2024 budget on February 22, 2023, for the twelve-month fiscal year beginning July 1, 2023;

**WHEREAS** Following a review of the budget amendment report through the FY 2024 First Quarter, the appropriations established with the adoption of the general operating budget for the water system and the sewer system are amended as shown in the table below;

<b>General Operating</b>				
<b>Appropriation Category</b>				
<b>Revenues</b>		<b>Water System</b>		<b>Sewer System</b>
		<b>Adopted</b>	<b>Amended</b>	<b>Adopted</b> <b>Amended</b>
Suburban Wholesale Customer Charges		\$ 340,540,600	\$ 336,540,600	\$ 282,687,600   No Change
Less: Bad Debt		-	No Change	-   No Change
Retail Service Charges		25,537,200	No Change	196,569,600   No Change
Industrial Waste Control Charges		-	No Change	8,584,200   No Change
Pollutant Surcharges		-	No Change	5,328,300   No Change
Investment Earnings - Unrestricted		3,067,000	8,530,200	5,567,000   13,399,700
Investment Earnings - Restricted for Debt Service		994,700	3,531,500	1,490,300   2,657,600
Investment Earnings		4,061,700	12,061,700	7,057,300   16,057,300
Other Revenues		175,000	440,000	400,000   717,000
Total Revenues		<u>\$ 370,314,500</u>	<u>\$ 374,579,500</u>	<u>\$ 500,627,000</u> <u>\$ 509,944,000</u>
<b>Revenue Requirements</b>				
Operations & Maintenance Expense		\$ 152,906,400	163,100,500	\$ 205,643,700   \$ 220,128,400
General Retirement System Legacy Pension		-	No Change	-   No Change
Debt Service		159,482,800	162,634,000	228,328,300   231,781,600
General Retirement System Accelerated Pension		3,395,500	1,505,500	6,479,300   3,096,800
Extraordinary Repair & Replacement Deposit		-	No Change	-   No Change
Water Residential Assistance Program Contribution		1,851,600	No Change	2,503,100   No Change
Regional System Lease		22,500,000	No Change	27,500,000   No Change
DWSD Budget Shortfall Pending		-	No Change	-   No Change
Receiving Fund Working Capital Requirement		-	1,400,000	-   No Change
Improvement & Extension Fund Transfer		30,178,200	21,587,900	30,172,600   24,934,100
Total Revenue Requirements		<u>\$ 370,314,500</u>	<u>\$ 374,579,500</u>	<u>\$ 500,627,000</u> <u>\$ 509,944,000</u>



**WHEREAS** Following a review of the budget amendment report through the FY 2024 First Quarter, the appropriations established with the adoption of the amounts necessary to pay the principal of and interest on all Regional bonds and to restore any reserves therefore established in the Master Bond Ordinance for the water system and the sewer system are amended as shown in the table below;

<b>Debt Service Coverage Calculation</b>				
<b>Appropriation Category</b>	<b>Water System</b>		<b>Sewer System</b>	
	<b>Adopted</b>	<b>Amended</b>	<b>Adopted</b>	<b>Amended</b>
<b>Debt Service by Lien</b>				
Senior Lien Bonds	136,224,100	139,877,500	155,429,200	158,940,100
Second Lien Bonds	51,754,500	No Change	53,273,500	53,380,100
SRF Junior Lien Bonds	16,469,500	16,136,600	51,847,200	51,634,400
Total Debt Service	<u>\$ 204,448,100</u>	<u>\$ 207,768,600</u>	<u>\$ 260,549,900</u>	<u>\$ 263,954,600</u>

**WHEREAS** Following a review of the budget amendment report through the FY 2024 First Quarter, the appropriations established with the adoption of the improvement and extension fund budget for the water system and the sewer system are amended as shown in the table below;

<b>Improvement &amp; Extension Fund</b>				
<b>Appropriation Category</b>	<b>Water System</b>		<b>Sewer System</b>	
	<b>Adopted</b>	<b>Amended</b>	<b>Adopted</b>	<b>Amended</b>
<b>Revenues</b>				
Transfers In from General Operating	\$ 30,178,200	\$ 21,587,900	\$ 30,172,600	\$ 24,934,100
Receipt of DWSD Shortfall Loan	-	No Change	-	No Change
Earnings on Investments	1,694,800	2,205,200	2,133,000	4,559,700
Net Use of Reserves	(10,926,100)	15,213,200	(15,202,100)	25,593,200
Total Revenues	<u>\$ 20,946,900</u>	<u>\$ 39,006,300</u>	<u>\$ 17,103,500</u>	<u>\$ 55,087,000</u>
<b>Expenditures</b>				
Water/Sewer System Revenue Transfers Out	\$ 1,694,800	\$ 2,205,200	\$ 2,133,000	\$ 4,559,700
Capital Spending - Other	-	No Change	-	No Change
Capital Outlay	11,539,100	8,051,100	14,970,500	11,527,300
Revenue Financed Capital -				
Transfer to/(from) Construction Fund	7,713,000	28,750,000	-	39,000,000
Total Expenditures	<u>\$ 20,946,900</u>	<u>\$ 39,006,300</u>	<u>\$ 17,103,500</u>	<u>\$ 55,087,000</u>

**WHEREAS** Following a review of the budget amendment report through the FY 2024 First Quarter, the appropriations established with the adoption of the construction fund budget for the water system and the sewer system are amended as shown in the table below;

<b>Construction Fund</b>				
<b>Appropriation Category</b>	<b>Water System</b>		<b>Sewer System</b>	
<b>Revenues</b>	<b>Adopted</b>	<b>Amended</b>	<b>Adopted</b>	<b>Amended</b>
Transfer (to)/from Improvement & Extension Fund	\$ 7,713,000	28,750,000	\$ -	39,000,000
Bond Proceeds	-	150,000,000	-	100,000,000
Grant Revenues (SRF Loans)	97,102,000	62,805,000	47,253,000	54,676,000
Earnings on Investments	1,864,700	5,364,700	2,365,600	6,865,600
Net (Use) Increase of Reserves	132,580,300	(21,919,700)	149,442,400	(35,541,600)
Total Revenues	<u>\$ 239,260,000</u>	<u>\$ 225,000,000</u>	<u>\$ 199,061,000</u>	<u>\$ 165,000,000</u>
<b>Expenditures</b>				
Project Expenditures	\$ 239,260,000	225,000,000	\$ 199,061,000	165,000,000
Capital Spend Rate Adjustment	\$ -	No Change	\$ -	No Change
Total Expenditures	<u>\$ 239,260,000</u>	<u>\$ 225,000,000</u>	<u>\$ 199,061,000</u>	<u>\$ 165,000,000</u>
Capital Spending Ratio	100.0%	94.0%	100.0%	82.9%

**WHEREAS** The GLWA Audit Committee reviewed the budget amendments at its meeting on December 8, 2023; and

**WHEREAS** An affirmative vote of 5 Board Members is necessary for the adoption of this Resolution,

**NOW THEREFORE BE IT:**

**RESOLVED** That the GLWA Board approves the FY 2024 First Quarter Budget Amendments; and be it finally

**RESOLVED** That the Chief Executive Officer, and the Chief Financial Officer/Treasurer are authorized to take such other action as may be necessary to accomplish the intent of this resolution.



## Financial Services Audit Committee Communication

**Date:** December 8, 2023

**To:** Great Lakes Water Authority Audit Committee

**From:** Lisa L. Mancini, Financial Services Area Chief of Staff

**Re:** Public Hearings on Proposed FY 2025 Schedule of Revenues and Charges and FY 2025 & FY 2026 Biennial Budget Request

**Background/Analysis:** See attached draft Board Letter.

**Proposed Action:** The GLWA Audit Committee recommends that the Board of Directors authorizes staff to schedule a Public Hearing on Proposed FY 2025 Schedule of Revenues and Charges and a Public Hearing on the FY 2025 & FY 2026 Biennial Budget Request to be held at a Meeting of the Great Lakes Water Authority Board on February 28, 2024, at 2 pm, directs that notice of these Public Hearings be published in a daily newspaper of general circulation, and directs that notice of these Public Hearings be mailed to GLWA member partner communities on or before January 29, 2024.

..Title

**Public Hearings on Proposed FY 2025 Schedule of Revenues and Charges and FY 2025 & FY 2026 Biennial Budget Request**

..Body

Agenda of: December 13, 2023

Item No.: **2023-466**

Amount: N/A

**TO:** The Honorable  
Board of Directors  
Great Lakes Water Authority

**FROM:** Suzanne R. Coffey P.E.  
Chief Executive Officer  
Great Lakes Water Authority

**DATE:** December 13, 2023

**RE: Public Hearings on Proposed FY 2025 Schedule of Revenues and Charges and FY 2025 & FY 2026 Biennial Budget Request**

**MOTION**

Upon recommendation of Nicolette N. Bateson, Chief Financial Officer/Treasurer, the Board of Directors (Board) of the Great Lakes Water Authority (GLWA), **authorizes staff to schedule a Public Hearing on Proposed FY 2025 Schedule of Revenues and Charges and a Public Hearing on the FY 2025 & FY 2026 Biennial Budget Request to be held at a Meeting of the Great Lakes Water Authority Board on February 28, 2024, at 2 pm, directs that notice of these Public Hearings be published in a daily newspaper of general circulation, and directs that notice of these Public Hearings be mailed to GLWA member partner communities on or before January 29, 2024; and authorizes the CEO to take such other action as may be necessary to accomplish the intent of this vote.**

## **BACKGROUND**

The timing of the proposed public hearings is guided largely by contractual commitments as well as following general practice in the public sector.

### **Contractual Commitments**

Section 7.02 of the GLWA Model Water Contract requires a Public Hearing prior to adoption of the FY 2025 & FY 2026 Biennial Budget. Section 7.02 provides:

“Notification of Rates. As soon as possible in the ratemaking process, the Board shall provide information on proposed rates and the draft data and information used in the calculation of proposed rates in a format that will enable Customer to assist in the ratemaking process. Not less than thirty calendar days prior to the hearing required by Act 279, the Board shall provide Customer with written notice of a proposed rate and the underlying data used to calculate the rate. The Board shall meet with Customer to review the rate and the data.”

The GLWA Model Sewer contract has the similar wording in Section 20.02 of that contract.

“Notification of Rates. As soon as possible in the ratemaking process, DWSD *[now GLWA]* shall provide information on proposed rates and the draft data and information used in the calculation of proposed rates in a format that will enable Customer to assist in the ratemaking process. Not less than thirty calendar days prior to the hearing required by Act 279, DWSD *[now GLWA]* shall provide Customer with written notice of a proposed rate and the underlying data used to calculate the rate. DWSD *[now GLWA]* shall meet with Customer to review the rate and the data.”  
*[Note that the contracts still reference DWSD; italics noted to infer GLWA.]*

### **General Practice in the Public Sector**

Michigan Public Act 279 provides that a water or sewerage system which serves more than 40% of the population must hold at least one public hearing at least 120 days before a proposed rate increase is scheduled to take effect. The hearing(s) must be conducted in compliance with the Open Meetings Act (OMA). Notice of the time, date and place of each hearing must be in compliance with the OMA and must be mailed to each city, village or township served by the system not less than 30 days before each hearing.

Although Act 279 does not currently apply to GLWA operations as the population served is close to, but less than, 40%, counsel has been in agreement that GLWA should continue to abide by the notice requirements of Act 279 as the most faithful interpretation of the contract requirements.

### **JUSTIFICATION**

The timing of the proposed public hearings aligns with the annual financial planning and charge development cycle in process.

### **BUDGET IMPACT**

Public Hearings on a Proposed FY 2025 Schedule of Charges and FY 2025 & FY 2026 Biennial Budget Request are necessary for the establishment of a current budget and schedule of charges effective July 1, 2024.

### **COMMITTEE REVIEW**

A discussion draft budget will be presented to the Audit Committee on December 15, 2023, with further discussion scheduled for the Board of Directors workshop on January 10, 2024, the Board of Directors meeting on January 24, 2024, and the Audit Committee meeting on January 26, 2024 as needed.

At its meeting on December 8, 2023, the Audit Committee **[insert action]** that the Board of Directors authorizes staff to schedule a Public Hearing on Proposed FY 2025 Schedule of Revenues and Charges and a Public Hearing on the FY 2025 & FY 2026 Biennial Budget Request to be held at a Meeting of the Great Lakes Water Authority Board on February 28, 2024, at 2 pm, directs that notice of these Public Hearings be published in a daily newspaper of general circulation, and directs that notice of these Public Hearings be mailed to GLWA member partner communities on or before January 29, 2024.



**GREAT LAKES WATER AUTHORITY  
NOTICE OF PUBLIC HEARING  
PROPOSED FY 2025 WATER AND SEWERAGE SERVICE CHARGES**

Notice is hereby given that the Great Lakes Water Authority Board of Directors will hold a Public Hearing on Water and Sewerage service charges proposed by the Great Lakes Water Authority for Fiscal Year 2025.

**DATE: Wednesday, February 28, 2024**

**TIME: 2:00 p.m.**

**PLACE: In person, Zoom Videoconferencing, and Zoom  
Telephonic Hearing**

**In Person**

Board Room, 5<sup>th</sup> Floor  
735 Randolph Street  
Detroit, Michigan 48226

**Join Zoom Meeting**

<https://glwater.zoom.us/j/85483462197?pwd=UUhpaFg2aTdoMkZHZDdQN051b01Qdz09>

Meeting ID: 854 8346 2197

Passcode: 349880

**Join Zoom Telephonic**

Public Call-In Number: 877 853 5247 US Toll-Free  
or 888 788 0099 US Toll-Free

Meeting ID: 854 8346 2197

Passcode: 349880

The proposed service charges are scheduled to take effect on July 1, 2024.

The proposed schedule of charges is available for public inspection online at <https://www.glwater.org/financials/>.

Individuals or groups wishing to make oral presentations or submit prepared statements pertaining to the proposed service charges may do so at the Public Hearing as outlined in this notice. Individuals or groups wishing to make oral presentations may appear in person or participate via the Zoom as indicated in this notice.



Individuals or groups giving oral presentations are encouraged to also submit their presentations in writing. Oral presentations should be brief to allow all parties the opportunity to participate. A three minute time limit will be observed.

The Public Hearing on the FY 2025 Water and Sewerage service charges proposed by the Great Lakes Water Authority scheduled for February 28, 2024 at 2:00 p.m. will be held in person, through Zoom videoconferencing, and by telephone through Zoom's telephonic capabilities.

Members of the public may offer comment in the following manners:

In Person: Members of the public who, subject to capacity, wish to attend the meeting and/or offer public comment in person may attend the meeting in the Board Room, 5<sup>th</sup> Floor, 735 Randolph, Detroit, MI 48226.

By Zoom videoconferencing: Members of the public who wish to use Zoom videoconferencing to attend the meeting and/or offer public comment may utilize the following link to attend:

<https://glwater.zoom.us/j/85483462197?pwd=UUhpaFg2aTdoMkZHZDdQN051b01Qdz09>

During the portions of the hearing designated for public participation may "raise their hand" by using that feature within the software program.

By Telephone via Zoom: Members of the public who wish to attend the meeting and/or offer public comment by telephone should call in at the number indicated above, press \*9 on their keypad to "raise their hand for public comment." During other portions of the meeting, members of the public are asked to mute their line by pressing \*6 on their keypad to mute or unmute their line.

By E-Mail: Members of the public may provide written comments to the Board by emailing those comments to CEO@glwater.org on or before 3:00 p.m. on Tuesday, February 27, 2024 and should reference "February 28, 2024 Public Hearing on service charges proposed for Fiscal Year 2025" in the subject line of the e-mail. The opportunity to submit written comments by e-mail may remain open throughout the duration of the Public Hearing.

By U.S. Mail: members of the public may provide written comments by United States mail addressed to:

Suzanne R. Coffey P.E., Chief Executive Officer  
Great Lakes Water Authority  
735 Randolph  
Detroit, Michigan, 48226





Written comments by U.S. mail should reference “February 28, 2024 Public Hearing on service charges proposed for Fiscal Year 2025” in the letter. The opportunity to submit written comments by U.S. mail may remain open throughout the duration of the Public Hearing.

If a member of the public requires accommodation due to a disability, please contact [CEO@glwater.org](mailto:CEO@glwater.org) or (844) 455-GLWA (4592) not less than 72 hours prior to the date of the meeting.



**GREAT LAKES WATER AUTHORITY  
NOTICE OF PUBLIC HEARING  
PROPOSED BIENNIAL BUDGET  
For the Two-Year Period ended June 30, 2026 (FY 2025 and FY 2026)**

Notice is hereby given that the Great Lakes Water Authority Board of Directors will hold a Public Hearing on the proposed FY 2025 and FY 2026 biennial budget.

**DATE: Wednesday, February 28, 2024**

**TIME: 2:00 p.m.**

**PLACE: In person, Zoom Videoconferencing, and Zoom  
Telephonic Hearing**

**In Person**

Board Room, 5<sup>th</sup> Floor  
735 Randolph Street  
Detroit, Michigan 48226

**Join Zoom Meeting**

<https://glwater.zoom.us/j/85483462197?pwd=UUhpaFg2aTdoMkZHZDdQN051b01Qdz09>

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**Join Zoom Telephonic**

Public Call-In Number: 877 853 5247 US Toll-Free  
or 888 788 0099 US Toll-Free

Meeting ID: 854 8346 2197

Passcode: 349880

The proposed biennial budget is scheduled to take effect on July 1, 2024.

The proposed biennial budget is available for public inspection online at <https://www.glwater.org/financials/>.

Individuals or groups wishing to make oral presentations or submit prepared statements pertaining to the proposed biennial budget may do so at the Public Hearing as outlined in this notice. Individuals or groups wishing to make oral presentations may appear in person or participate via the Zoom as indicated in this notice.



Individuals or groups giving oral presentations are encouraged to also submit their presentations in writing. Oral presentations should be brief to allow all parties the opportunity to participate. A three minute time limit will be observed.

The Public Hearing on the FY 2025 and FY 2026 biennial budget proposed by the Great Lakes Water Authority scheduled for February 28, 2024 at 2:00 p.m. will be held in person, through Zoom videoconferencing, and by telephone through Zoom's telephonic capabilities.

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