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AGENDA

- 1. CALL TO ORDER
- 2. ROLL CALL
- 3. APPROVAL OF AGENDA
- 4. APPROVAL OF MINUTES
 - A. February 25, 2022 (Page 1)
- 5. PUBLIC PARTICIPATION
- 6. OLD BUSINESS
 - A. Water Residential Assistance Program Updates (Page 6)
- 7. NEW BUSINESS
 - A. *Action Item:* Resolution Regarding Approval of Series Ordinance Authorizing Issuance and Sale of Sewer Disposal System Revenue Bonds in an Amount Not to Exceed \$42,000,000 (Ordinance 2022-02) (Page 14)
 - B. *Action Item:* Authorizing Publication of Notice of Intent to Issue Water Supply and Sewage Disposal System Revenue Bonds (Page 40)
 - C. Action Item: FY 2022 Second Quarter Budget Amendments (Page 50)
 - D. Calendar Year 2022 Financing Team Selection (Page 89)
- 8. REPORTS
 - A. CFO Report (Page 92)
 - B. Monthly Financial Report for December 2021 (Page 97)
 - C. Business Inclusion and Diversity Program Update (Page 98)
 - D. Quarterly Gifts, Grants & Other Resources Report (Page 101)
 - E. Quarterly Debt Report (Page 111)
 - F. Annual Procurement Report (Page 126)
- 9. COMMUNICATIONS
 - A. The Procurement Pipeline for March 2022 (Page 171)
 - B. Correction of FY 2023 Approved Pollutant Surcharge Charge Support (Page 173)

C. Moody's Credit Opinion Re Great Lakes Water Authority, March 23, 2022 (Page 175) 10. LOOK AHEAD

- A. Next Audit Committee Meeting: April 22, 2022 at 8:00 a.m.
- **11. OTHER MATTERS**
- 12. ADJOURNMENT

Note: Binders #1 and #2 have been combined in agenda order and document was renumbered.

Great Lakes Water Authority



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

Meeting Minutes - Draft

Audit Committee

| Friday, February 25, 2022 | 8:00 AM | Zoom Telephonic Meeting |
|---------------------------|--|---------------------------|
| | Zoom Telephonic Meeting | |
| | Join Zoom Meeting Here: | |
| https://glwater | zoom.us/j/86061585624?pwd=OS9XS2pYbzdo | WjVwcmdra2ZFVml1Zz09 |
| | Join By Telephone: | |
| | 877 853 5247 US Toll-free | |
| | 888 788 0099 US Toll-free | |
| | Meeting ID: 860 6158 5624 | |
| | Passcode: 077431 | |
| . Call To Order | | |
| | Chairperson Baker called the meeting to order at 8:01 | am |
| . Quorum Call | | |
| Present: | 3 - Chairperson Brian Baker, Director Gary Brown, and | d Director Jaye Quadrozzi |
| 8. Approval of Agend | ı | |
| | Nicolette Bateson, Chief Financial Officer/Treasurer, re Quarterly Investment Report after item 7.A., and item 8 after item 7.C. | - |
| | Chairperson Baker requested a Motion to Approve the | Agenda as Amended |
| | Motion By: Jaye Quadrozzi | |
| | Support By: Gary Brown | |
| | Action: Approved as Amended | |
| | The motion carried by a unanimous vote. | |
| . Approval of Minute | 5 | |

Audit Committee

A. <u>2022-078</u> Minutes of January 21, 2022

Indexes: Finance

Attachments: 4A January 21, 2022 Audit Committee Meeting Minutes

Chairperson Baker requested a Motion to Approve the January 21, 2022 Audit Committee Meeting Minutes.

Motion By: Gary Brown Support By: Jaye Quadrozzi Action: Approved The motion carried by a unanimous vote.

B. <u>2022-079</u> Minutes of February 11, 2022

Indexes: Finance

Attachments: 4B February 11, 2022 Special Audit Committee Meeting Minutes

Chairperson Baker requested a Motion to Approve the February 11, 2022 Special Audit Committee Meeting Minutes.

Motion By: Gary Brown Support By: Jaye Quadrozzi Action: Approved The motion carried by a unanimous vote.

5. Public Comment

There were no public comments.

6. Old Business

None

7. New Business

A. <u>2022-080</u> Presentation: Municipal Advisor Market Update

Indexes: Finance

Attachments: 7A1- Municipal Advisor Update Memo

Motion By: Gary Brown Support By: Jaye Quadrozzi Action: Received and Filed The motion carried by a unanimous vote. 8. E. <u>2022-089</u> Quarterly Investment Report

Indexes: Finance

Attachments: 8E1 Quarterly Investment Report Cover Memo_December 2021 8E2 GLWA Quarterly Report December 2021 FINAL

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

B. <u>2022-081</u> Resolution Regarding Approval of Series Ordinance Authorizing Issuance and Sale of Water Supply System Revenue Bonds in an Amount Not to Exceed \$13,000,000 (Ordinance 2022-01)

Indexes: Finance

Attachments: 7B2 Resolution Approving 2022 SRF-1 Ordinance (DWRF) 7B3 Series Ordinance (2022 SRF-1 2.5 Quarter DWRF)

> Motion By: Gary Brown Support By: Jaye Quadrozzi Action: Recommended for Approval to the Board of Directors Agenda of March 23, 2022 The motion carried by a unanimous vote.

C. <u>2022-082</u> Scheduling of Public Hearings for the FY 2023 Clean Water State Revolving Fund (CWSRF)

Indexes: Finance

Attachments: 7C3 CWSRF Public Hearing Notice

Motion By: Jaye Quadrozzi Support By: Gary Brown Action: Recommended for Approval to the Board of Directors Agenda of March 23, 2022 The motion carried by a unanimous vote.

8.F. <u>2022-090</u> Quarterly WRAP Report

Indexes: Finance

Attachments: 8F1 Quarterly WRAP Report thru 12.31.2021

8F2 Appendix A - Quarterly WRAP Performance Metrics Report

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

D. <u>2022-083</u> WRAP Funding Reallocation

Indexes: Finance

Attachments: 7D1 WRAP Funding Reallocation

7D2 WRAP Funding Reallocation

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

Note: A Special Audit Committee Meeting has been scheduled for Friday, March 18, 2022, at 8:00 a.m. for further discussion of WRAP Funding Reallocation.

E. <u>2022-084</u> WRAP Administrator Contracts

Indexes: Finance

Attachments: 7E1 WRAP Administrator Contracts

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

8. Reports

A. <u>2022-085</u> CFO Report (verbal)

Indexes: Finance

Nicolette Bateson, Chief Financial Officer/Treasurer, stated that the audit services request for proposal has been issued this week and is now available in Bonfire. Timing for Audit Committee review of those proposals is contingent upon the number of proposals received.

B. <u>2022-086</u> Monthly Financial Report for October 2021

Indexes: Finance

Attachments: 8B October 2021 Financial Report_Tagetik

Motion By: Jaye Quadrozzi Support By: Gary Brown Action: Received and Filed The motion carried by a unanimous vote. C. <u>2022-087</u> Monthly Financial Report for November 2021

Indexes: Finance

Attachments: 8C November 2021 Financial Report Tagetik

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

D. <u>2022-088</u> Business Inclusion and Diversity Program Update

Indexes: Finance

Attachments: 8D 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.

9. Communications

A. <u>2022-091</u> The Procurement Pipeline for February 2022

Indexes: Finance

Attachments: 9A The Procurement Pipeline for February 2022

No Action Taken

10. Look Ahead

A Special Audit Committee Meeting has been scheduled for Friday, March 18, 2022 at 8:00 a.m.

The next regular Audit Committee Meeting is scheduled for Friday, March 25, 2022 at 8:00 a.m.

11. Other Matters

There were no other matters.

12. Adjournment

Chairperson Baker requested a Motion to Adjourn.

Motion By: Gary Brown Support By: Jaye Quadrozzi Action: Approved The motion carried by a unanimous vote.

There being no further business, the meeting was adjourned at 9:53 a.m.

AGENDA ITEM #6A



Financial Services Audit Committee Communication

Date: March 25, 2022

To: Great Lakes Water Authority Audit Committee

From: Nicolette N. Bateson, CPA, Chief Financial Officer & Treasurer

Re: Water Residential Assistance Program Update

Background: In June 2020, the Great Lakes Water Authority contracted with Public Sector Consultants (PSC) to engage stakeholders and perform an evaluation of WRAP program effectiveness and opportunities for improvement. In November 2020, PSC presented the Board of Directors with a list of recommendations which have largely been put into place. The effectiveness of these changes, along with the performance of service delivery partners was difficult to evaluate as the COVID-19 pandemic restrained WRAP client service opportunities. The evaluation of these changes was also occurring at a time when an unprecedented level of one-time water assistance funding was distributed to the action agencies by the state of Michigan. Best use of public resources was to apply the state and federally supported funding first and WRAP second. The pandemic further limited in-home services to protect the residents and workers in alignment with public health requirements and guidelines.

Analysis: Beginning July 1, 2021, the service partner delivery model moved from a decentralization from Wayne Metro as the lead for the entire service area to Oakland Livingston Human Service Agency (OLHSA) and Macomb Community Action Agency (MCAA) being the lead agency for their respective county. With nearly nine months experience with the new WRAP delivery model, there has been improvement in Oakland and Macomb utilization, but the pace and trajectory are still below meeting the needs that we know exist. Additionally, as we now emerge from the pandemic era with one-time funding for arrearages and assistance and a return to in-person interactions, *the timing and implementation for broader amendments to the WRAP program design and delivery model is warranted*.

It is important to note that we are very appreciative and have the highest level of respect for each of our service delivery partners, Wayne Metro, OLHSA, and MCAA. They have risen to an immense challenge over the past two years. Each agency, and each county, is unique. I want to underscore this point, because the barriers to success may sound critical of the individual agencies. That is not the case. What we have discovered, is that 1) there are a number of competing priority programs to manage in the human services area, 2) fundamental changes that need to be made to the WRAP design and delivery methods for

greater success, and 3) a "one source" action agency, particularly for Oakland and Macomb, is leaving out a number of viable pipelines to reach out to constituents in need. It is important that the program moving forward retains what is working well and focus on the barriers to success. One of the areas working well is the relationship with the City of Detroit Water & Sewerage Department (DWSD) and Wayne Metro – particularly as it relates to program administration. The size of the city's customer base makes it unique compared to the other member partner communities. For those reasons, proposals to amend some administrative processes may not be applicable to DWSD.

The table below is an executive summary of the barriers and **strategies** that we would like to begin to rollout with a target date of full implementation by July 1, 2022. There are many details to work through internally and with external stakeholders as well as the Board of Directors via the leadership of GLWA's Affordability & Assistance Manager, Madison Merzlyakov. There is an attached memo from her related to details and next steps. The table below is presented to frame the discussion with the Audit Committee before we launch into an aggressive timeline to effectuate program changes.

| Barriers to Success | Strategy |
|---|---|
| Program Benefits | |
| A payment amount of \$25/month is meaningful in some communities but not others | Utilize EPA's model for determining water affordability where annual cost of water service is compared to household income and other relevant factors |
| Given the monthly bill compared to the \$25 payment, clients decline participation because they know they will not be successful based on their payment amount based on the relative size of their water bill | Scalability of payment, client education related to budget payments, reward participation of <i>some</i> payment to stay in program |
| Misnomer that someone needs to "have documented income" to receive benefits | Caseworker training that "proof of income" is helpful in determining eligibility but recognize that a person is in need because they have no income - allow for instances where there is temporarily no income and/or acknowledge that household support may come from other sources. |
| Lack of contractor resources and/or in- house action agency expertise to manage the water use efficiency audits and/or repairs | Expand client service delivery partners who have the staff resources and compatible programs to reach out and service more constituents; evaluate GLWA procuring master agreements for agencies to access for contractors |

| Barriers to Success | Strategy | | |
|--|--|--|--|
| Unique to the City of Flint – stop and start of WRAP based on funding available | Smoothing of existing resource commitments and perhaps more often reviews of overall program utilization/reallocation | | |
| Program Administration | | | |
| Three levels at which each community opts- in level 1, opt-in level 2, or complete opt- out; this is very confusing and burdensome for case workers. As a result, case workers do not promote WRAP at point of intake and/or the program becomes siloed from other agency offerings. | Eliminate the opt-in/opt out model and move to direct client service that eliminates workload on Member Partner communities. Train case workers with a simple list of eligible communities. | | |
| Tracking success of the monthly, bi- monthly, or quarterly payment is based on an unreasonably burdensome Excel file exchanged between Member Community and Action Agency. | Eliminate the burden on the Member Partner community. Empower caseworker to work with client to review the client's progress in making payments as a pathway to long-term success rather than compliance validation by the Member Partner community. | | |
| Placing burden on a handful of action agencies are the best approach to reach constituents in need <i>throughout</i> the GLWA service area. | Expand "client service delivery partners" who have the staff resources and compatible programs to reach out to more people as well as provide services. | | |
| Action agency staffing is limited, program is burdensome, and other programs are higher priorities. | Expand client service delivery partners who have the staff resources and compatible programs to expand access to the program. | | |
| Data tracking monthly is not timely or effective for decision making and monitoring program effectiveness. | Client data sheet submitted to GLWA in some electronic method that provides statistical data (e.g., excludes client's personal information). | | |
| Outreach | | | |
| Ensure the level of outreach matches the resources available for delivery on services promoted. If outreach increases client awareness, but there are not sufficient caseworkers, the program will falter. | Expand client service delivery partners who have the staff resources and compatible programs to reach out to more people and serve as secondary source to manage client needs. | | |
| | <u></u> | | |

| Barriers to Success | Strategy |
|---------------------|---|
| | Advisory panel including service delivery partners and others to support program success. |

The next steps include the following.

- 1. Receive Audit Committee feedback
- 2. GLWA to build out the details of the WRAP strategy moving forward
- 3. Strengthen program delivery where it is most successful (Wayne Metro and DWSD)
- 4. Continue discussions with, and recruitment of additional service delivery partners with an emphasis on the GLWA service area outside of Wayne County

Proposed Action: Receive and file this report.



Financial Services Audit Committee Communication

Date: March 25, 2022

To: Great Lakes Water Authority Audit Committee

From: Madison Merzlyakov, Affordability & Assistance Manager

Re: Water Residential Assistance Program – Next Steps in Program Improvements

The Great Lakes Water Authority (GLWA) is continuously evaluating ways to improve the Water Residential Assistance Program (WRAP) to best utilize the funding available. The following program design changes are recommended to remove unnecessary barriers to households enrolling in the program, as well as providing the right level assistance to adequately meet a household's need.

1. Evaluate Water Affordability

A household enrolled in WRAP is currently eligible for \$25 per month in direct bill assistance. This amount is meaningful in some communities but not in others. Household income, size and the amount of the water bill is not considered. In some cases, households decline participation because they know they will not be successful based on their payment amount given the relative size of their water bill.

When evaluating water affordability at a community level the EPA has determined combined sewer and water bills over 4.5% of the median household income for the community to be unaffordable. GLWA is proposing to utilize this approach and create a sliding scale for direct bill payment assistance that is based upon their average bill amount and household income.

As discussed above, upon intake a household would need to provide data on a year's worth of water consumption and costs to calculate the average bill amount. It would then be determined how much of their household income is being spent on their bill. Once this percentage is obtained, the caseworker could determine the level of assistance based on a scale. Below is an example of what this scale might look like.

| Water Bill as a Percentage of Household Income | Under 4% | 4.5% | 5% | 5.5% | 6% | 6.5% and above |
|--|-------------|------|------|------|------|-------------------|
| Monthly Support | \$25 | \$30 | \$35 | \$40 | \$45 | \$50 |

Using this sliding scale of assistance, GLWA has run the following scenarios to demonstrate how the program would work for different households.

Scenario 1: Household of one at 135% of the federal poverty level (FPL)

Household Income: \$20,000 or \$1,666 a month

- Average water bill: \$95/month or 5.7% of their household income (\$95 is the average bill in City of Detroit)
- Monthly direct assistance: \$40
- New average water bill: \$55/month or 3.3% of their monthly household income

Scenario 2: Household of four at 200% of FPL

Household income \$55,500 or \$4,583 a month

- Average water bill: \$140/month or 3% median household income
- Monthly direct assistance: \$25
- New water bill \$115 or 2.5% of their monthly household income

Scenario 3: Median household income in Detroit and average monthly water bills

Household income: \$32,498 or \$2,708 a month

- Average water bill: \$95 or 3.5% of household income
- Monthly direct assistance: \$25
- New water bill \$70 or 2.6% of household income

2. Move toward direct client assistance

Reducing the workload burden required of our Member Communities. This will be accomplished by removing the requirement of communities to verify on time payments for the household. This will also empower the Community Action Agencies (CAAs) to work with the client to review their progress in making payments as a pathway to long-term personal financial sustainability.

Direct Client Assistance Process:

- 1) Household provides documented income (if available)/ability to pay and data on water consumption and cost for the past year (i.e. past water bill information)
- 2) CAA verifies eligibility and calculates monthly support based on annual water bill amount and household income
- 3) CAA alerts Member Community that the household is enrolled in WRAP

- 4) Member Community flag accounts that are enrolled in WRAP to avoid water shutoff or penalty fees (note: this part of the proposal may not be universally accepted by Member Communities and will require further dialog)
- 5) CAA makes payments directly to the Member Community on behalf of the household
- 6) Member Community receive and apply payments from the CAA to the corresponding household in same manner as any other account payment
- 7) Household makes payments on the remainder of their bill to the Member Community
- 8) CAA works directly with household to review progress in making payments as a pathway to long-term success

It is important to note that the current relationship between Wayne Metro and the Detroit Water & Sewerage Department (DWSD) is working well and the current established process is successful. What works well for a large community like Detroit, will not always work well for smaller communities. GLWA is not recommending changes to that specific relationship.

3. Provide WRAP as core service for eligible Member Communities (thereby eliminating opt-in/out and service levels)

Due to Member Community resources being required to administer the program, communities must choose to opt into WRAP. When opting in, a community then has multiple options to choose from. The opt in requirement and options have caused confusion for residents and is a burden on the CAAs. It also means that while all Member Communities are paying into the program, not all residents are able to take advantage of the program.

By removing the workload burden Member Communities experienced with their involvement in the monthly/quarterly bill review as mentioned in item 2 above, we believe there is no reason to continue with the opt in model and different program options. This would mean that if a low-income household in an eligible GLWA Member Community meets the other requirements of WRAP, they will be eligible for all elements of the program. This will allow the program to be more accessible, removes the burden at the Member Community level and allows for more simple, direct assistance to the household.

4. Allow for instances where there is no income

There is the impression that a household must have income to be eligible for WRAP. While CAAs have been flexible in what they accept as formal income, this has been a barrier to categorial eligibility and engaging the wraparound services that CAAs can provide.

GLWA is proposing that upon intake if a household indicates they do not have documented income, they are still able to enroll in the program and a plan to maintain payments is

documented. An example of this could be where a family member provides financial support to the household.

5. Form a Member Community WRAP Advisory Panel

GLWA recognizes that engagement at the member community level is still important to the success of WRAP. A Member Community WRAP Advisory Panel will be formed that has representatives from various Member Communities to help establish what that relationship might look like and to help continuously evaluate the program and its success.

6. Expand Partnerships

The CAAs have been key partners in administering WRAP, however they are often faced with resource constraints, as they are responsible for administering many other programs. There are other resources in the region that may be able to support different elements of the WRAP program.

GLWA proposes to begin engaging other potential service delivery partners in addition to our CAAs to help with program aspects like outreach and conservation elements (minor plumbing repairs, home water audit, contractor resources).

7. Track progress

Currently, the CAAs own the data and report out to GLWA in various formats. Data tracking on a monthly basis is not timely or effective for decision making and monitoring program effectiveness. GLWA proposes that data is more closely tracked and provided directly to GLWA via a client data sheet submitted upon intake that provides statistical data (but not personal information).

8. Provide more frequent reviews of overall program utilization

The City of Flint is in a unique position that often results in the stopping and starting of the program based on current funding available. GLWA is proposing that by reviewing the program utilization more frequently and considering reallocation on a more regular basis, the program will be able to run smoother for Flint residents.

AGENDA ITEM #7A

Page 14



Financial Services Audit Committee Communication

Date: March 25, 2022

To: Great Lakes Water Authority Audit Committee

From: Kim Garland, CPA, Financial Services Area Chief of Staff

Re: Resolution Regarding Approval of Series Ordinance Authorizing Issuance and Sale of Sewer Disposal System Revenue Bonds in an Amount Not to Exceed \$42,000,000 (Ordinance 2022-02)

Background & Analysis: See attached draft Great Lakes Water Authority ("GLWA") Board letter.

Proposed Action: The GLWA Audit Committee recommends that the Great Lakes Water Authority Board approve the resolution Approval of Series Ordinance Authorizing Issuance and Sale of Sewer Disposal System Revenue Bonds in an Amount Not to Exceed \$42,000,000 for 5655-03 Financial Segment 2 for the Detroit River Interceptor.

..Title

Resolution Regarding Approval of Series Ordinance Authorizing Issuance and Sale of Sewer Disposal System Revenue Bonds in an Amount Not to Exceed \$42,000,000 (Ordinance 2022-02)

..Body

 Agenda of:
 April 27, 2022

 Item No.:
 2022-119

 Amount:
 Not to Exceed \$42,000,000

- TO: The Honorable Board of Directors Great Lakes Water Authority
- FROM: Suzanne R. Coffey, P.E. Interim Chief Executive Officer Great Lakes Water Authority
- **DATE:** April 27, 2022
- RE: Resolution Regarding Approval of Series Ordinance Authorizing Issuance and Sale of Sewer Disposal System Revenue Bonds in an Amount Not to Exceed \$42,000,000 (Ordinance 2022-02)

MOTION

Upon recommendation of Nicolette N. Bateson, Chief Financial Officer//Treasurer, the Board of Directors (Board) of the Great Lakes Water Authority (GLWA), **approve the resolution Approval of Series Ordinance Authorizing Issuance and Sale of Sewer Disposal System Revenue Bonds in an Amount Not to Exceed \$42,000,000 as presented,** and authorizes the CEO to take such other action as may be necessary to accomplish the intent of this vote.

BACKGROUND

On February 26, 2020, the Great Lakes Water Authority ("GLWA") Board of Directors approved Resolution 2020-068, "Resolution of the Great Lakes Water Authority Authorizing Publication of Notice of Intent to Issue Water Supply System Revenue Bonds in a principal amount not to exceed \$200,000,000" (the "Notice of Intent"). This is the fifth series of water bonds from that Notice of Intent in the amount not to exceed \$42,000,000.

The approval of the Series Ordinance presented today is the next formal step required by the GLWA Board of Directors in the bond issuance process. The Series Ordinance authorizes the issuance of the Bonds by GLWA, sets forth the guidelines for the Clean Water State Revolving Fund (CWSRF) Bonds, designates the Bonds as 2022 SRF-1 Junior Lien Bonds, and authorizes the Chief Executive Officer or the Chief Financial Officer to execute the final terms of the Bonds, paying issuance costs and signing of the Purchase Contract and Sale Order, within the parameters set forth in the Series Ordinance.

JUSTIFICATION

This series of bonds authorized by this ordinance will be sold through the state of Michigan's CWSRF program (Project #5655-03) is a Regional Sewer System project involving the evaluation and rehabilitation of the Detroit River Interceptor (DRI) which conveys approximately 30% of GLWA wastewater flows to the Water Resource Recovery Facility (WRRF). The DRI was constructed in 1927 and has seen limited maintenance and rehabilitation since that time and is currently in poor condition. The DRI is an extremely important interceptor in the collection system and the consequences of failure are high. Therefore, this project is necessary to ensure that GLWA can rely on this critical component of the system to convey maximum wastewater flows to the WRRF, while mitigating historical problems with combine sewer overflows (CSOs), interceptor collapses, sink holes and residential basement flooding. The project will significantly provide upgrades and improve the reliability of the DRI conveyance system.

This loan will support Reach 3 work. It is expected to be the final phase of work with overall estimated project completion date of May 2026 and an estimated total project cost of nearly \$90 million. The State considers 5655-03 to be a financial segment, which is a continuation of a previously approved project typically associated with larger or longer-term projects that extend beyond current State SRF funding amounts and construction milestone requirements. It follows two, prior, CWSRF loans approved for this project totaling approximately \$46 million.

| Loan # | Date Approved | | Amount |
|-----------------------------|---------------|-------|--------------|
| 5655-01 | August 2018 | | \$17,510,000 |
| 5655-02 Financial Segment 1 | February 2020 | | \$28,350,000 |
| | | Total | \$45,860,000 |

The 2022 SRF-1 Junior Lien Bonds will be sold to the Michigan Finance Authority. The current program interest rate for the CWSRF is 1.875% with a 20-year term. The not to exceed amount for this series of \$42 million.

BUDGET IMPACT

The debt service payments on the GLWA Regional project are anticipated to start on October 1, 2023 with minimal amounts of interest due, because of the projected draw down schedules. Interest expense on the loan will be included in the FY 2024 Water Budget.

COMMITTEE REVIEW

This matter was reviewed by the GLWA Audit Committee at its meeting on March 25, 2022. The Audit Committee *[insert action]* of the resolution for the Approval of Series Ordinance Authorizing Issuance and Sale of Sewer Disposal System Revenue Bonds in an Amount Not to Exceed \$42,000,000 as presented.

<u>Great Lakes Water Authority</u> <u>Resolution 2022-119</u> <u>RE: Approval of Series Ordinance Authorizing Issuance and Sale of Sewage Disposal</u> <u>System Revenue Bonds in an Amount not to Exceed \$42,000,000</u> <u>Ordinance 2022-02</u>

By Board Member:

- Whereas There has been presented to the Board of Directors of the Great Lakes Water Authority (the "Authority") an ordinance entitled "Series Ordinance Authorizing the Issuance and Sale of Sewage Disposal System Revenue Bonds in an Amount not to Exceed \$42,000,000" (the "2022 SRF-1 Series Ordinance"), which ordinance is a Series Ordinance as defined and described in Master Bond Ordinance No. 2015-02 adopted by the Board of Directors on October 7, 2015, as amended on December 9, 2015, January 27, 2016, August 10, 2016 and February 12, 2020.
- **Whereas** The Articles of Incorporation of the Authority provide that at least 5 of the 6 members of the Authority Board must vote to approve the 2022 SRF-1 Series Ordinance.

Now, Therefore Be It:

- **Resolved** That the 2022 SRF-1 Series Ordinance, in the form presented to this meeting, is approved and adopted, and the Chairperson and the Secretary are authorized to authenticate the 2022 SRF-1 Series Ordinance in the form approved; And Be it Further
- **Resolved** That an affirmative vote of at least 5 members of the Authority Board is necessary for the passage of this Resolution.

Adopted by the Great Lakes Water Authority Board on: _____, 2022

4866-3577-6787 v1 [63818-40]

GREAT LAKES WATER AUTHORITY ORDINANCE NO. 2022-02

SERIES ORDINANCE AUTHORIZING ISSUANCE AND SALE OF SEWAGE DISPOSAL SYSTEM REVENUE BONDS IN AN AGGREGATE AMOUNT NOT TO EXCEED \$42,000,000

WHEREAS, pursuant to Resolution No. 2015-10-03 adopted by the Board of Directors of the Great Lakes Water Authority (the "Authority") on October 7, 2015, the Authority Board approved and adopted Master Bond Ordinance No. 2015-02 (as subsequently amended through the date hereof, the "Ordinance"), which authorizes the issuance by the Authority of Sewage Disposal System Revenue Bonds; and

WHEREAS, the Ordinance authorizes the issuance of such Sewage Disposal System Revenue Bonds in one or more Series pursuant to a Series Ordinance authorizing the issuance and sale of such Series; and

WHEREAS, the Authority Board has determined that it is necessary to authorize at this time one or more Series of SRF Junior Lien Bonds (the "2022 SRF-1 Junior Lien Bonds") to provide moneys to pay the costs of the hereinafter described repairs, extensions, enlargements and improvements to the Regional Sewer System identified in the Capital Improvement Program (the "2022 SRF-1 Project").

NOW, THEREFORE, BE IT ORDAINED BY THE BOARD OF DIRECTORS OF THE GREAT LAKES WATER AUTHORITY AS FOLLOWS:

Section 1. <u>Authority for this Series Ordinance</u>. This Series Ordinance (the "2022 SRF-1 Series Ordinance") is adopted pursuant to Section 1102(1) of the Ordinance.

Section 2. <u>Definitions</u>. Except as otherwise provided in this 2022 SRF-1 Series Ordinance, all terms which are defined in Section 101 of the Ordinance shall have the same meanings, respectively, in this 2022 SRF-1 Series Ordinance as such terms are given in the Ordinance. In addition, the following terms shall have the following meanings unless the context shall clearly indicate some other meaning:

(a) "2022 SRF-1 Junior Lien Bonds" means the Bonds authorized by Section 5 of this 2022 SRF-1 Series Ordinance for the purpose of paying and/or reimbursing costs of the 2022 SRF-1 Project.

(b) "2022 SRF-1 Project" means improvements to the Regional Sewer System, including but not limited to improvements to the Detroit River Interceptor (DRI) component of the Authority's Conveyance System that directs flow for treatment at the Water Resource Recovery Facility (WRRF).

(c) "Authorized Denomination" means any denomination as determined by an Authorized Officer in the Sale Order.

(d) "Authorized Officer" means either the Chief Executive Officer or the Chief Financial Officer. In accordance with Resolution 2021-330 adopted by the Authority Board on August 11, 2021, references herein to Chief Executive Officer shall be deemed to include any duly appointed Interim Chief Executive Officer.

(e) "Interest Payment Date" means except as otherwise set forth in the Sale Order each April 1 and October 1.

(f) "Maturity Date" means such dates of maturity of the 2022 SRF-1 Junior Lien Bonds as determined in the Sale Order.

(g) "MFA" means the Michigan Finance Authority.

(h) "Person" means any natural person, association, corporation, trust, partnership, joint venture, joint-stock company, municipal corporation, public body or other entity, however organized.

(i) "Project Costs" means the costs of acquiring, constructing, equipping, installing and financing the 2022 SRF-1 Project, including Issuance Costs relating to the 2022 SRF-1 Junior Lien Bonds.

(j) "Purchase Contract" means the Purchase Contract between the MFA and the Authority with respect to the purchase by the MFA and the sale by the Authority of a Series of the 2022 SRF-1 Junior Lien Bonds.

(k) "Regional Construction Fund, Series 2022 SRF-1" means a subaccount of the Construction Fund established in accordance with Section 11 of this 2022 SRF-1 Series Ordinance relating to the construction of the 2022 SRF-1 Project to be paid with the proceeds of the 2022 SRF-1 Junior Lien Bonds.

(1) "Regular Record Date" means except as otherwise set forth in the Sale Order the fifteenth day of the calendar month immediately preceding an Interest Payment Date.

(m) "Sale Order" means any one or more Sale Orders of an Authorized Officer authorizing acts consistent with the Ordinance and this 2022 SRF-1 Series Ordinance necessary and appropriate to complete the sale, execution and delivery of the 2022 SRF-1 Junior Lien Bonds and to complete the other transactions contemplated herein.

(n) "Supplemental Agreement" means the Supplemental Agreement among the Authority, the MFA and the State of Michigan acting through the Department of Environment, Great Lakes, and Energy, with respect to the 2022 SRF-1 Junior Lien Bonds.

(o) "Taxable 2022 SRF-1 Junior Lien Bonds" means any 2022 SRF-1 Junior Lien Bonds other than Tax-Exempt 2022 SRF-1 Junior Lien Bonds.

(p) "Tax-Exempt 2022 SRF-1 Junior Lien Bonds" means any 2022 SRF-1 Junior Lien Bonds that are Tax-Exempt Bonds.

(q) "Trustee" means U.S. Bank Trust Company, National Association, as successor to U.S. Bank, National Association, as appointed and ratified herein.

Section 3. <u>Approval of 2022 SRF-1 Project</u>. It is hereby determined to be necessary for the public health, benefit and welfare of the area served by the Regional Sewer System to acquire, construct and undertake the 2022 SRF-1 Project, and the 2022 SRF-1 Project is hereby approved and accepted.

Section 4. <u>Estimated Cost and Period of Usefulness of 2022 SRF-1 Project</u>. The Project Costs are estimated by the Authority Board to not exceed \$42,000,000 and the Project Costs are hereby approved and confirmed. The period of usefulness of the 2022 SRF-1 Project is estimated to be not less than 40 years.

Section 5. <u>Authorization of 2022 SRF-1 Junior Lien Bonds</u>.

(a) <u>Authorization of Borrowing</u>. The Authority may borrow an amount not in excess of \$42,000,000, as is finally determined in the Sale Order, and issue the 2022 SRF-1 Junior Lien Bonds in one or more Series, all to evidence such borrowing pursuant to Act 233, Act 94 and the Ordinance, as 2022 SRF-1 Junior Lien Bonds, all as finally determined in the Sale Order. The amount of the 2022 SRF-1 Junior Lien Bonds authorized in this Section 5(a) shall include the amount of the net original issue premium, if any.

(b) <u>Purpose of 2022 SRF-1 Junior Lien Bonds</u>. The 2022 SRF-1 Junior Lien Bonds shall be issued as Additional Bonds for the purpose of paying and/or reimbursing Project Costs.

(c) <u>Priority of Lien</u>. The 2022 SRF-1 Junior Lien Bonds shall be issued as SRF Junior Lien Bonds.

(d) <u>Insufficient Proceeds</u>. To the extent that proceeds of SRF-1 Junior Lien Bonds are insufficient to pay Project Costs, the insufficiency shall be paid from the proceeds of future Additional Bonds, if any, and/or moneys of the Regional Sewer System on hand and legally available therefor, as determined by the Authority Board.

(e) <u>Taxable and Tax-Exempt 2022 SRF-1 Junior Lien Bonds</u>. The 2022 SRF-1 Junior Lien Bonds may be issued as Taxable 2022 SRF-1 Junior Lien Bonds or Tax-Exempt 2022 SRF-1 Junior Lien Bonds, or as separate subseries of both, as set forth in the Sale Order.

(f) <u>Source of Payment and Security</u>. The 2022 SRF-1 Junior Lien Bonds shall be payable and secured as provided in Section 8.

(g) <u>Applicability of Ordinance</u>. Except as otherwise provided in this 2022 SRF-1 Series Ordinance or in the Sale Order, all of the provisions of the Ordinance shall apply to the 2022 SRF-1 Junior Lien Bonds as if set forth in full in this 2022 SRF-1 Series Ordinance, the purpose of this 2022 SRF-1 Series Ordinance being to supplement the Ordinance to authorize the issuance of 2022 SRF-1 Junior Lien Bonds for the purposes set forth herein.

Section 6. <u>2022 SRF-1 Junior Lien Bond Details</u>.

- (a) <u>Designation</u>.
 - (1) The 2022 SRF-1 Junior Lien Bonds shall bear the designations Sewage Disposal System Revenue Bonds, Series 2022-SRF-1 and shall include such other designations, including, without limitation, designations for multiple subseries, as determined by an Authorized Officer as shall be set forth in the Sale Order and not inconsistent with the Ordinance or this 2022 SRF-1 Series Ordinance.
 - (2) If the 2022 SRF-1 Junior Lien Bonds are not issued in 2022, an Authorized Officer is authorized in her discretion to re-designate the year and Series designation of such Series of 2022 SRF-1 Junior Lien Bonds and the various funds and accounts established hereunder to correspond with the year of issuance of such Series of 2022 SRF-1 Junior Lien Bonds. Furthermore, an Authorized Officer is authorized to establish designations within the various funds and accounts established hereunder if necessary in order to differentiate such funds and accounts from other similarly named funds and accounts related to other Bonds.

(b) <u>Numbering</u>. The 2022 SRF-1 Junior Lien Bonds shall be numbered in such manner as shall be determined in the Sale Order.

(c) <u>Principal</u>. The 2022 SRF-1 Junior Lien Bonds shall be issued in the form of Serial Bonds or Term Bonds, or any combination of Serial Bonds and Term Bonds, in any Authorized Denomination, and the principal thereof shall mature on October 1, or such other date as set forth in the Sale Order, in such years and amounts, and shall be or not be subject to redemption prior to maturity, all as shall be determined in the Sale Order subject to the following limitations:

- (1) No 2022 SRF-1 Junior Lien Bonds shall mature later than 40 years after the date of issuance thereof.
- (2) The 2022 SRF-1 Junior Lien Bonds shall only be issued with annual principal and interest installments permitted by the Ordinance, including Section 207 thereof.

(d) <u>Interest</u>. 2022 SRF-1 Junior Lien Bonds or portions thereof shall bear interest at a rate or rates as set forth in the Sale Order not in excess of 2.50% per annum. Interest on 2022 SRF-1 Junior Lien Bonds shall be payable on each Interest Payment Date.

(e) <u>Payment of Principal and Interest</u>. The principal of, premium, if any, and interest on the 2022 SRF-1 Junior Lien Bonds shall be payable in lawful money of the United States. Except as otherwise provided in the Sale Order, so long as the 2022 SRF-1 Junior Lien Bonds are owned by the MFA, the 2022 SRF-1 Junior Lien Bonds are payable as to principal, redemption premium, if any, and interest at U.S. Bank Trust Company, National Association, or at such other place as shall be designated in writing to the Authority by the MFA (the MFA's Depository"), and the Authority agrees that it will deposit with the MFA's Depository payments of the principal of, premium, if any, and interest on the 2022 SRF-1 Junior Lien Bonds in immediately available funds by 12:00 noon at least five Business Days prior to the date on which any such payment is due, whether by maturity, redemption or otherwise. If the 2022 SRF-1 Junior Lien Bonds are not registered in the name of the MFA, the principal of and premium, if any, on the 2022 SRF-1 Junior Lien Bonds are payable upon the surrender thereof at the corporate trust office of the Trustee and the interest is payable by check or draft drawn on the Trustee and mailed to the registered owners as of the immediately preceding Regular Record Date at their address shown on the registration books of the Authority maintained by the Trustee.

(f) <u>Dating</u>. The 2022 SRF-1 Junior Lien Bonds shall be dated such date as determined in the Sale Order.

(g) <u>Reserve Requirement</u>. There shall be no Reserve Requirement with respect to the 2022 SRF-1 Junior Lien Bonds.

(h) <u>Exchange</u>. The registered owner of any 2022 SRF-1 Junior Lien Bond may exchange such 2022 SRF-1 Junior Lien Bond for a new 2022 SRF-1 Junior Lien Bond or Bonds of the same interest rate, maturity and Priority of Lien in an equal aggregate principal amount in one or more of the Authorized Denominations by surrendering such 2022 SRF-1 Junior Lien Bond to be exchanged at the designated office of the Trustee together with an assignment duly executed by the registered owner thereof or his attorney or legal representative in such form as shall be satisfactory to the Trustee. As provided in Section 206 of the Ordinance, the Trustee shall be responsible for the registration, transfer and exchange of 2022 SRF-1 Junior Lien Bonds and shall indicate its acceptance of such duties by a document filed with an Authorized Officer concurrently with the delivery of the 2022 SRF-1 Junior Lien Bonds.

(i) <u>Execution and Delivery of 2022 SRF-1 Junior Lien Bonds</u>. The 2022 SRF-1 Junior Lien Bonds shall be executed in the name of the Authority by manual or facsimile signature of the Chief Executive Officer of the Authority and countersigned by the manual or facsimile signature of the Secretary of the Authority Board, and shall have the Authority's seal or facsimile thereof affixed or printed thereon. The Chief Financial Officer is authorized to deliver the 2022 SRF-1 Junior Lien Bonds to the MFA upon receiving the purchase price therefor in lawful money of the United States.

(j) <u>Form of 2022 SRF-1 Junior Lien Bonds</u>. The 2022 SRF-1 Junior Lien Bonds shall be in substantially the following form, subject to such changes, additions or deletions as determined by the Chief Executive Officer within the parameters of this 2022 SRF-1 Series Ordinance:

R-___

UNITED STATES OF AMERICA STATE OF MICHIGAN COUNTIES OF MACOMB, OAKLAND AND WAYNE GREAT LAKES WATER AUTHORITY SEWAGE DISPOSAL SYSTEM REVENUE BOND, SERIES 2022-SRF-1

PRINCIPAL AMOUNT: \$_____

INTEREST RATE: ___%

ORIGINAL ISSUE DATE:

The Great Lakes Water Authority, Counties of Macomb, Oakland and Wayne, State of Michigan (the "<u>Issuer</u>"), upon authorization from the Board of Directors of the Issuer (the "<u>Board</u>"), has issued this Bond. The Issuer, for value received, promises to pay, in lawful money of the United States of America, but only from the Pledged Assets (as defined below), to the Registered Owner named above, or registered assigns, the Principal Amount stated above, or so much thereof as shall have been advanced to the Issuer and not prepaid or reduced pursuant to a Purchase Contract between the Issuer and the Michigan Finance Authority (the "<u>MFA</u>"), a Supplemental Agreement by and among the Issuer, the MFA and State of Michigan acting through the Department of Environment, Great Lakes, and Energy and the Order of Approval issued by the Department of Environment, Great Lakes, and Energy. The Principal Amount shall be payable on the dates and in the principal installments set forth in Schedule A attached hereto.

In the event less than the Principal Amount of this Bond is disbursed by the MFA, any portion of the Principal Amount is prepaid as provided herein, or any serial principal payment becomes due before the Issuer has received proceeds from corresponding purchased principal installments of at least a like amount, then the MFA may prepare a new serial principal installment repayment schedule which shall be presented to the Issuer and be effective upon receipt as provided in the Purchase Contract.

Interest on this Bond shall accrue from the Original Issue Date set forth above at the Interest Rate set forth above, only on that portion of installments of the Principal Amount which have been disbursed by the MFA, shall be payable on ______, 20__ and semiannually on each April 1 and October 1 thereafter (each an "Interest Payment Date").

If the MFA is not the registered owner of this Bond, principal of this Bond is payable upon presentation and surrender at the designated office of U.S. Bank Trust Company, National Association, as Trustee under the Ordinance (as defined below) or such other trustee as the Issuer may hereafter designate by notice mailed to the registered owner not less than 60 days prior to any Interest Payment Date (the "<u>Trustee</u>").

Interest on this Bond is payable to the registered owner of record as of the close of business on the 15th day of the month immediately preceding any Interest Payment Date as shown on the registration books kept by the Trustee by check or draft mailed by the Trustee to the registered owner at the registered address. Interest on this Bond shall be computed on the basis of a 360-day year comprised of twelve 30-day months. During the time funds are being drawn down by the Issuer under this Bond, the MFA will periodically provide the Issuer with a statement showing the amount of principal that has been advanced and the date of each advance, which statement shall constitute prima facie evidence of the reported information; provided, that no failure on the part of the MFA to provide such a statement or to reflect a disbursement or the correct amount of a disbursement shall relieve the Issuer of its obligation to repay the outstanding principal amount actually advanced [(subject to any principal forgiveness as provided for herein)], all accrued interest thereon, and any other amount payable with respect thereto in accordance with the terms of this Bond.

In the event of a default in the payment of principal or interest hereon when due, whether at maturity, by redemption or otherwise, the amount of such default shall bear interest (the "additional interest") at a rate equal to the rate of interest that is two percent above the MFA's cost of providing funds (as determined by the MFA) to make payment on the bonds of the MFA issued to provide funds to purchase this Bond but in no event in excess of the maximum rate of interest permitted by law. The additional interest shall continue to accrue until the MFA has been fully reimbursed for all costs incurred by the MFA (as determined by the MFA) as a consequence of the Issuer's default. Such additional interest shall be payable on the interest payment date following demand of the MFA. In the event that (for reasons other than the default in the payment of any municipal obligation purchased by the MFA) the investment of amounts in the reserve account established by the MFA for the bonds of the MFA issued to provide funds to purchase this bond fails to provide sufficient available funds (together with any other funds that may be made available for such purpose) to pay the interest on outstanding bonds of the MFA issued to fund such account, the Issuer shall and hereby agrees to pay on demand only the Issuer's pro rata share (as determined by the MFA) of such deficiency as additional interest on this Bond.

Notwithstanding any other provision of this Bond, so long as the MFA is the owner of this Bond, (a) this Bond is payable as to principal, premium, if any, and interest at U.S. Bank Trust Company, National Association, or at such other place as shall be designated in writing to the Issuer by the MFA (the "MFA's Depository"); (b) the Issuer agrees that it will deposit with the MFA's Depository payments of the principal of, premium, if any, and interest on this Bond in immediately available funds by 12:00 noon at least five business days prior to the date on which any such payment is due whether by maturity, redemption or otherwise; in the event that the MFA's Depository has not received the Issuer's deposit by 12:00 noon on the scheduled day, the Issuer shall immediately pay to the MFA as invoiced by the MFA an amount to recover the MFA's administrative costs and lost investment earnings attributable to that late payment; and (c) written notice of any redemption of this Bond shall be given by the Issuer and received by the MFA's Depository at least 40 days prior to the date on which redemption is to be made.

This Bond is one of a series of bonds designated "Sewage Disposal System Revenue Bonds, Series 2022-SRF-1" and is issued pursuant to the provisions of (i) Act 233, Public Acts of Michigan, 1955, as amended ("<u>Act 233</u>"), and Act 94, Public Acts of Michigan, 1933, as amended ("<u>Act 94</u>"), (ii) Master Bond Ordinance No. 2015-02 adopted by the Board on October 7, 2015, as

amended (the "<u>Bond Ordinance</u>"), (iii) the Series Ordinance Authorizing Issuance and Sale of Sewage Disposal System Revenue Bonds in an Aggregate Amount not to Exceed \$______, adopted by the Board on _______, 2022 (the "<u>Series Ordinance</u>"), and (iv) a Sale Order of the Chief Executive Officer of the Issuer dated _______, 2022 (the "<u>Sale Order</u>," and, collectively with the Bond Ordinance and the Series Ordinance, the "<u>Ordinance</u>"). This Bond is issued for the purposes set forth in the Series Ordinance and the Sale Order.

For the prompt payment of the principal of and interest on this Bond, and other bonds issued by the Issuer pursuant to the Bond Ordinance, the Issuer has irrevocably pledged the Pledged Assets (as defined in the Bond Ordinance), which includes the revenues of the Sewer System (as defined in the Bond Ordinance), after provision is made for reasonable and necessary expenses of operation, maintenance and administration of the Sewer System (the "<u>Net Revenues</u>"), and a statutory lien on the Net Revenues and Pledged Assets is hereby recognized and acknowledged. Such lien is a third lien, subject to obligations heretofore and hereafter issued or incurred under the Bond Ordinance secured by a first or second lien on the Pledged Assets. This Bond is of equal standing on a parity with all other obligations heretofore and hereafter issued or incurred under the Bond Ordinance and secured by a third lien on the Pledged Assets.

For a complete statement of the revenues from which and the conditions under which this Bond is payable, a statement of the conditions under which Additional Bonds (as defined in the Bond Ordinance) of senior or equal standing and Additional Bonds of junior standing may hereafter be issued and the general covenants and provisions pursuant to which this Bond is issued, reference is made to the Bond Ordinance.

This Bond is subject to redemption prior to maturity at the option of the Issuer and with the prior written consent of and upon such terms as may be required by the MFA. That portion of this Bond called for redemption shall not bear interest after the date fixed for redemption, provided funds are on hand with the Trustee to redeem the same.

THIS BOND IS ISSUED UNDER ACT 233 AND ACT 94. IT IS A SELF-LIQUIDATING BOND AND IS NOT A GENERAL OBLIGATION OF THE ISSUER AND DOES NOT CONSTITUTE AN INDEBTEDNESS OF THE ISSUER WITHIN ANY CONSTITUTIONAL OR STATUTORY LIMITATION, BUT IS PAYABLE, BOTH AS TO PRINCIPAL AND INTEREST SOLELY FROM THE PLEDGED ASSETS OF THE SEWER SYSTEM. THE PAYMENT OF THE PRINCIPAL OF AND INTEREST ON THIS BOND ARE SECURED BY A STATUTORY LIEN ON THE PLEDGED ASSETS AS DESCRIBED HEREIN.

The Issuer has covenanted and agreed, and hereby covenants and agrees, to fix and maintain, or cause to be fixed and maintained, at all times while any bonds payable from the Pledged Assets of the Sewer System shall be outstanding, such rates for service furnished by the Sewer System as shall be sufficient to provide for payment of the interest upon and the principal of this Bond and all other Bonds (as defined in the Bond Ordinance) assumed or issued and to be issued under the Bond Ordinance as and when the same shall become due and payable, to create and maintain a bond redemption fund therefor, including a bond reserve for Bonds other than this Bond, to provide for the payment of expenses of administration and operation and such expenses for maintenance of the Sewer System as are necessary to preserve the same in good repair and

working order, and to provide for such other expenditures and funds for the Sewer System, all as are required by the Bond Ordinance.

This Bond is transferable only upon the books of the Issuer kept for that purpose at the office of the Trustee by the registered owner hereof in person, or by his attorney duly authorized in writing, upon the surrender of this Bond together with a written instrument of transfer satisfactory to the Trustee duly executed by the registered owner or his attorney duly authorized in writing, and thereupon a new registered bond or bonds of the same type, in the same aggregate principal amount and of the same maturity shall be issued to the transferee in exchange therefor as provided in the Ordinance and upon the payment of the charges, if any, therein prescribed.

It is hereby certified and recited that all acts, conditions and things required by law precedent to and in the issuance of this Bond have been done and performed by regular and due time and form as required by law.

This Bond is not valid or obligatory for any purpose until the Trustee's Certificate of Authentication hereon has been executed by the Trustee.

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Page 28

IN WITNESS WHEREOF, the Great Lakes Water Authority, Counties of Macomb, Oakland and Wayne, State of Michigan, has caused this Bond to be signed in its name by the facsimile signatures of its Chief Executive Officer and its Secretary of the Board and its corporate seal or a facsimile thereof to be printed, impressed or otherwise reproduced hereon, all as of the Original Issue Date.

GREAT LAKES WATER AUTHORITY

By:_____ Chief Executive Officer

Countersigned:

By:______ Secretary, Board of Directors

[Seal]

Page 29

CERTIFICATE OF AUTHENTICATION

This Bond is authenticated as the bond designated by the Issuer as "Sewage Disposal System Revenue Bond, Series 2022-SRF-1".

U.S. Bank Trust Company, National Association, Trustee

By:_____

Date of Authentication: _____, 2022

ASSIGNMENT

For value received, the undersigned sells, assigns and transfers unto this Bond and all rights hereunder and hereby irrevocably appoints attorney to transfer this Bond on the books kept for registration thereof with full power of substitution in the premises.

Dated:_____

Signature

NOTICE: The signature to this assignment must correspond with the name as it appears on the face of this Bond in every particular.

Schedule A

The principal amounts and maturity dates applicable to the Bond to which this Schedule A is attached are as follows:

Date

Amount

Based on the schedule provided above unless revised as provided in this paragraph, repayment of the Principal Amount shall be made according to such schedule until the full Principal Amount disbursed to the Issuer is repaid; provided, however, that the Issuer shall have no obligation to repay any serial principal installment for which the Issuer did not receive a disbursement of Principal Amount by the date such serial principal installment is due. In the event the Order of Approval issued by the Department of Environment, Great Lakes, and Energy (the "Order") approves a principal amount of assistance less than the amount of the Bond, the MFA shall only disburse principal up to the amount stated in the Order. In the event (1) that the payment schedule described above provides for payment of a total principal amount of assistance approved by the Order, (2) that less than the principal amount of assistance approved by the Order, (3) of prepayment [or principal forgiveness] of the Bond, the MFA shall prepare a new payment schedule that shall be effective upon receipt by the Issuer.

END OF BOND FORM

Section 7. <u>Concerning the Securities Depository</u>.

(a) As used herein:

"Beneficial Owner" means any Person who indirectly owns 2022 SRF-1 Junior Lien Bonds pursuant to the indirect ownership system maintained by a securities depository (the "Securities Depository") and its Participants, commonly known as the "Book-Entry Only System."

"Participant" means any Person whose ownership of 2022 SRF-1 Junior Lien Bonds is shown on books of the Securities Depository.

(b) The 2022 SRF-1 Junior Lien Bonds will initially be registered in the name of the MFA, or such other purchasers as designated in the Sale Order. In the event 2022 SRF-1 Junior Lien Bonds are later to be registered in the name of a Securities Depository or its nominee, neither the Authority nor the Trustee shall have any responsibility or obligation to any Participant or to any Beneficial Owner with respect to any matter, including the following:

- (1) the accuracy of the records of the Securities Depository, its nominee or any Participant with respect to any ownership interest in 2022 SRF-1 Junior Lien Bonds,
- (2) the delivery to any Participant, Beneficial Owner or any other Person other than the Securities Depository of any notice with respect to: any 2022 SRF-1 Junior Lien Bonds, including any notice of redemption, or
- (3) the payment to any Participant, Beneficial Owner or any other Person, other than the Securities Depository of any amount with respect to the principal (and premium, if any) of or interest on any 2022 SRF-1 Junior Lien Bonds.

(c) The Trustee shall pay all principal (and premium, if any) of and interest on the 2022 SRF-1 Junior Lien Bonds only to or upon the order of the MFA, or the Securities Depository, as applicable, and all such payments shall be valid and effective fully to satisfy and discharge the Authority's obligations with respect to the principal (and premium, if any) of, and interest on such 2022 SRF-1 Junior Lien Bonds to the extent of the sum or sums so paid.

(d) If 2022 SRF-1 Junior Lien Bonds become registered in the name of the Securities Depository and (1) the Authority receives a written notice from the Securities Depository to the effect the Securities Depository is unable or unwilling to discharge its responsibilities or (2) the Authority determines that it is in the best interests of the Beneficial Owners of 2022 SRF-1 Junior Lien Bonds that they be able to obtain 2022 SRF-1 Junior Lien Bonds in certificated form, then, in either event, the Authority shall notify the Trustee and, in the case of clause, (2), the Securities Depository.

(e) Upon discontinuance of the use of the Book-Entry Only System maintained by the Securities Depository, if any, pursuant to subsection (d), above and upon receipt of notice from the Securities Depository containing sufficient information, the Authority shall execute and the Trustee shall authenticate and deliver 2022 SRF-1 Junior Lien Bonds in certificated form to

Beneficial Owners in exchange for the beneficial interests of such Beneficial Owners in corresponding principal amounts and in any Authorized Denominations.

(f) Notwithstanding any other provision of this 2022 SRF-1 Series Ordinance to the contrary, so long as any 2022 SRF-1 Junior Lien Bond is registered in the name of the Securities Depository or its nominee:

- (1) all payments with respect to the principal, premium, if any, and interest on such 2022 SRF-1 Junior Lien Bond and all notices of redemption, tender and otherwise with respect to such 2022 SRF-1 Junior Lien Bond shall be made and given, respectively, to the Securities Depository as provided in the letter of representations from the Authority to the Securities Depository with respect to such 2022 SRF-1 Junior Lien Bonds or any master letter of representations from the Authority to the Securities Depository;
- (2) if less than all of the 2022 SRF-1 Junior Lien Bonds of the same type of any maturity are to be redeemed, then the particular 2022 SRF-1 Junior Lien Bonds or portions of 2022 SRF-1 Junior Lien Bonds of such type and maturity to be redeemed shall be selected by the Securities Depository in any such manner as the Securities Depository may determine;
- (3) all payments with respect to principal of the 2022 SRF-1 Junior Lien Bonds and premium, if any and interest on the 2022 SRF-1 Junior Lien Bonds shall be made in such manner as shall be prescribed by the Securities Depository; and
- (4) if a 2022 SRF-1 Junior Lien Bond is redeemed or tendered in part, then all amounts payable in respect of such redemption or tender shall be paid without presentation and surrender of such 2022 SRF-1 Junior Lien Bond pursuant to the procedures of the Securities Depository.

Section 8. <u>Payment of 2022 SRF-1 Junior Lien Bonds; Confirmation of</u> <u>Statutory Lien</u>.

(a) The 2022 SRF-1 Junior Lien Bonds and the interest thereon shall be payable solely from the Pledged Assets.

(b) To secure payment of the 2022 SRF-1 Junior Lien Bonds, the statutory lien upon the whole of the Pledged Assets established by Act 94 and the pledge created in Section 501 of the Ordinance is hereby confirmed in favor of the 2022 SRF-1 Junior Lien Bonds as follows: Such lien in favor of the 2022 SRF-1 Junior Lien Bonds shall be a statutory third lien on the Pledged Assets of equal standing and Priority of Lien with all issued, to be issued and outstanding SRF Junior Lien Bonds.

Section 9. <u>Funds and Accounts; Flow of Funds</u>. Except as otherwise provided in this 2022 SRF-1 Series Ordinance, all of the provisions relative to funds and accounts, their maintenance, the flow of funds and other details relative thereto, shall remain as specifically set forth in the Ordinance.

Section 10. <u>Disposition of Proceeds</u>.

(a) <u>Disposition of Accrued Interest and Capitalized Interest</u>. From the proceeds of the sale of the 2022 SRF-1 Junior Lien Bonds there shall be immediately deposited in the SRF Junior Lien Debt Service Account, an amount equal to any accrued interest received on the delivery of the 2022 SRF-1 Junior Lien Bonds and any capitalized interest on the 2022 SRF-1 Junior Lien Bonds, and the Authority may take credit for the amount so deposited against the amount required to be deposited in the SRF Junior Lien Debt Service Account for payment of the next maturing interest payment on the 2022 SRF-1 Junior Lien Bonds.

(b) <u>Construction Fund</u>. The balance of the proceeds of the 2022 SRF-1 Junior Lien Bonds shall be deposited in the Construction Fund and used to pay Project Costs as provided in Section 11.

Section 11. <u>Construction Fund</u>.

(a) A subaccount of the Authority Regional Construction Account of the Construction Fund established by the Ordinance shall be established for the 2022 SRF-1 Junior Lien Bonds and designated the "Construction Fund, Series 2022 SRF-1," and shall be established and maintained as a separate depository account with a Custodian as designated by the Chief Financial Officer.

(b) Moneys in the Construction Fund, Series 2022 SRF-1 shall be applied solely to payment of Project Costs (or to the reimbursement of Project Costs paid by the Authority from other funds prior to the issuance of the 2022 SRF-1 Junior Lien Bonds).

- (1) Payments or reimbursements for Project Costs for construction, either on account or otherwise, shall not be made unless the registered engineer in charge of such work shall file with an Authorized Officer a signed statement to the effect that the work has been completed in accordance with the plans and specifications therefor, that it was done in accordance with the contract therefor, that such work is satisfactory and that such work has not been previously paid for.
- (2) Payment or reimbursement for Project Costs consisting of Issuance Costs and engineering, legal and financial costs shall be made upon submission of appropriate documentation to an Authorized Officer.

Section 12. <u>Tax Covenant</u>.

(a) The Authority hereby covenants and represents with the registered owners of the Tax-Exempt 2022 SRF-1 Junior Lien Bonds, that so long as any of the Tax-Exempt 2022 SRF-1 Junior Lien Bonds remain outstanding and unpaid as to either principal or interest, the Authority shall, to the extent permitted by law, take all actions within its control to maintain, and will refrain from taking any action which would impair, the exclusion of the interest on the Tax-Exempt 2022 SRF-1 Junior Lien Bonds from gross income for federal income tax purposes under the Code.

(b) The actions referred to in subsection (a), above include, but are not limited to actions relating to any required rebate of arbitrage earnings and the expenditure and investment of

proceeds of Tax-Exempt 2022 SRF-1 Junior Lien Bonds and moneys deemed to be proceeds of Tax-Exempt 2022 SRF-1 Junior Lien Bonds, and to prevent Tax-Exempt 2022 SRF-1 Junior Lien Bonds from being or becoming "private activity bonds" as that term is used in the Code.

Section 13. <u>Sale of 2022 SRF-1 Junior Lien Bonds; Purchase Contract;</u> Expiration of Referendum Period.

(a) The 2022 SRF-1 Junior Lien Bonds shall be sold by negotiated sale to the MFA pursuant to a Purchase Contract in customary form with such changes thereto as an Authorized Officer shall determine are in the best interests of the Authority, within the parameters established by this 2022 SRF-1 Series Ordinance. Such determination shall be conclusively established by the Authorized Officer's execution of the Purchase Contract to the MFA.

(b) The Authority Board hereby determines that the sale of the 2022 SRF-1 Junior Lien Bonds by negotiated sale as described in subsection (a) is in the best interests of the Authority and will allow the 2022 SRF-1 Junior Lien Bonds to receive a subsidized interest rate through participation in the MFA's State Revolving Fund Program.

(c) An Authorized Officer is authorized to accept, on behalf of the Authority, an offer from the MFA to purchase the 2022 SRF-1 Junior Lien Bonds subject to the following limitations:

- (1) The interest rate with respect to any Series of the 2022 SRF-1 Junior Lien Bonds shall not exceed 2.50%.
- (2) The aggregate purchaser's discount at which any Series of the 2022 SRF-1 Junior Lien Bonds shall be sold to the MFA shall not exceed 2.00%.

(d) An Authorized Officer shall confirm in the Sale Order that there was no petition meeting the requirements of Section 33 of Act 94 that was filed with the Secretary of the Authority Board within 45 days of the date of publication of the notice of intent to issue bonds with respect to the 2022 SRF-1 Junior Lien Bonds as required by Section 33 of Act 94.

Section 14. <u>Delegation of Authority to and Authorization of Actions of</u> <u>Authorized Officers</u>.

(a) An Authorized Officer shall make all determinations herein provided to be made in the Sale Order and shall make all such determinations in accordance with the best interests of the Authority within the parameters of this 2022 SRF-1 Series Ordinance.

(b) In addition to determinations authorized elsewhere in this 2022 SRF-1 Series Ordinance, an Authorized Officer shall determine the aggregate principal amount of 2022 SRF-1 Junior Lien Bonds to be issued, but not in excess of the aggregate principal amount authorized by this 2022 SRF-1 Series Ordinance, on the basis of her evaluation of the maximum amount of 2022 SRF-1 Junior Lien Bonds which can be sold, given anticipated interest rates and the revenue coverage requirements with respect to the 2022 SRF-1 Junior Lien Bonds and for any other reasons the Authorized Officer deems appropriate.

- (1) Such determination shall also include the redemption provisions for the 2022 SRF-1 Junior Lien Bonds.
- (2) An Authorized Officer shall also determine and establish, in accordance with this 2022 SRF-1 Series Ordinance, the maturities of each Series of the 2022 SRF-1 Junior Lien Bonds, whether such maturities shall be serial or term maturities and the Mandatory Redemption Requirements for any term maturities.

(c) An Authorized Officer is authorized, if necessary, to file applications and to pay the related fees, if any, to the Michigan Department of Treasury at her discretion under Act 34 for one or more orders of approval to issue all or a portion of the 2022 SRF-1 Junior Lien Bonds, and such waivers or other Treasury approvals as necessary to implement the sale, delivery and security for the 2022 SRF-1 Junior Lien Bonds as authorized herein, and as required by the Michigan Department of Treasury or Act 34.

(d) An Authorized Officer shall determine in the Sale Order that the requirements set forth in Section 207 of the Ordinance with respect to the issuance of the 2022 SRF-1 Junior Lien Bonds as Additional Bonds have been satisfied.

(e) An Authorized Officer is hereby authorized and directed to do and perform any and all other acts and things with respect to the 2022 SRF-1 Junior Lien Bonds which are necessary or appropriate to carry into effect, consistent with the Ordinance and this 2022 SRF-1 Series Ordinance, the authorizations therein and herein contained including without limitation the securing of ratings by bond rating agencies, and the incurring of reasonable fees costs and expenses incidental to the foregoing, for and on behalf of the Authority.

Section 15. <u>Advancement of Project Costs</u>. At the direction of an Authorized Officer, the Authority may advance certain Project Costs from the Authority's funds prior to the issuance of the 2022 SRF-1 Junior Lien Bonds to the extent that such costs are expenditures appropriate for reimbursement under applicable law, including the Code in the case of Tax-Exempt 2022 SRF-1 Junior Lien Bonds.

Section 16. <u>Ratification</u>. All determinations and decisions of an Authorized Officer heretofore taken with respect to the issuance and sale of the 2022 SRF-1 Junior Lien Bonds as permitted or required by the Ordinance or law are hereby ratified, confirmed and approved.

Section 17. <u>Additional Authorization</u>. The Chief Executive Officer, the Chief Financial Officer, the Chief Administrative and Compliance Officer and the General Counsel of the Authority, any such officials acting in an interim or acting capacity to such officers, their deputies and staff, or any of them, are hereby authorized to execute and deliver such certificates, Supplemental Agreements, other agreements, documents, instruments, opinions and other papers as may be deemed necessary or appropriate to complete the sale, execution and delivery of the 2022 SRF-1 Junior Lien Bonds and otherwise give effect to the transactions contemplated by this 2022 SRF-1 Series Ordinance, as determined by such officials executing and delivering the foregoing items.

Section 18. <u>2022 SRF-1 Series Ordinance a Contract</u>. The provisions of this 2022 SRF-1 Series Ordinance shall constitute a contract between the Authority and each registered owner of an outstanding 2022 SRF-1 Junior Lien Bond.

Section 19. <u>Appointment and Ratification of Successor Trustee; Professional</u> <u>Services</u>.

(a) U.S. Bank Trust Company, National Association is hereby appointed and ratified as successor Trustee to U.S. Bank, National Association, in accordance with Section 907 of the Ordinance.

(b) Dickinson Wright PLLC is hereby appointed as Bond Counsel for the 2022 SRF-1 Junior Lien Bonds, notwithstanding the periodic representation by Dickinson Wright PLLC in unrelated matters of other parties and potential parties to the issuance of the 2022 SRF-1 Junior Lien Bonds.

(c) PFM Financial Advisors LLC is hereby appointed as Financial Advisor for the 2022 SRF-1 Junior Lien Bonds, notwithstanding the periodic representation by PFM Financial Advisors LLC in unrelated matters of other parties and potential parties to the issuance of the 2022 SRF-1 Junior Lien Bonds.

(d) The fees and expenses of Dickinson Wright PLLC and PFM Financial Advisors LLC shall be payable as an Issuance Cost from the proceeds of the 2022 SRF-1 Junior Lien Bonds or other available funds.

(e) An Authorized Officer is authorized to engage financial and other consultants as she deems necessary or appropriate in connection with the sale, issuance and delivery of the 2022 SRF-1 Junior Lien Bonds and to pay the fees and expenses thereof from the proceeds of the 2022 SRF-1 Junior Lien Bonds or other available funds.

Section 20. <u>Severability; Headings; and Conflict</u>. If any section, paragraph, clause or provision of this 2022 SRF-1 Series Ordinance shall be held invalid, the invalidity of such section, paragraph, clause or provision shall not affect any of the other provisions of this 2022 SRF-1 Series Ordinance. The section and paragraph headings in this 2022 SRF-1 Series Ordinance are furnished for convenience of reference only and shall not be considered to be part of this 2022 SRF-1 Series Ordinance.

Section 21. <u>Publication and Recordation</u>. This 2022 SRF-1 Series Ordinance shall be published in full in the Detroit Legal News, a newspaper of general circulation within the geographic boundaries of the Authority qualified under State law to publish legal notices, promptly after its adoption, and shall be maintained in the official records of the Authority and such recording authenticated by the signatures of the Chairperson and Secretary of the Authority Board.

Section 22. <u>Repeal</u>. All ordinances, resolutions, indentures or orders, or parts thereof, in conflict with the provisions of this 2022 SRF-1 Series Ordinance are, to the extent of such conflict, repealed.

Section 23. Effective Date. This 2022 SRF-1 Series Ordinance shall be effective upon adoption.

Adopted and signed on the _____ day of _____, 2022.

GREAT LAKES WATER AUTHORITY

Signed ______ Chairperson

Signed ______ Secretary

4879-5082-2419 v1 [63818-40]



Financial Services Audit Committee Communication

Date: March 25, 2022

To: Great Lakes Water Authority Audit Committee

From: Kim Garland, CPA, Financial Services Area Chief of Staff

Re: Authorizing Publication of Notice of Intent to Issue Water Supply and Sewage Disposal System Revenue Bonds

Background & Analysis See attached draft Great Lakes Water Authority ("GLWA") Board letter.

Proposed Action: The GLWA Audit Committee recommends approval of the Resolutions Authorizing Publication of Notice of Intent to Issue Water Supply and Sewage Disposal System Revenue Bonds to the GLWA Board of Directors at its meeting on April 27, 2022.

..Title

Resolution Authorizing Publication of Notice of Intent to Issue Water Supply System and Sewer Disposal System Revenue Bonds

..Body

 Agenda of:
 April 27, 2022

 Item No.:
 2022-120

 Amount:
 Not to Exceed \$600,000,000

- TO: The Honorable Board of Directors Great Lakes Water Authority
- FROM: Suzanne R. Coffey, P.E. Interim Chief Executive Officer Great Lakes Water Authority
- **DATE:** April 27, 2022

RE: Resolution Authorizing Publication of Notice of Intent to Issue Water Supply System and Sewer Disposal System Revenue Bonds

MOTION

Upon recommendation of Nicolette N. Bateson, Chief Financial Officer//Treasurer, the Board of Directors (Board) of the Great Lakes Water Authority (GLWA), **approve the Resolutions Authorizing Publication of Notice of Intent to Issue Water Supply System Revenue Bonds of \$400,000,000 and Sewer Disposal System Revenue Bonds of \$200,000,000 in an Amount Not to Exceed \$600,000,000 as presented, and authorizes the CEO to take such other action as may be necessary to accomplish the intent of this vote.**

BACKGROUND

The publication of the Notice of Intent to Issue Water Supply System Revenue Bonds is required pursuant to Section 33 of Public Act 94 of 1933 to begin the 45-day referendum period. "If within 45 days after the publication of the notice a petition, signed by not less

than 10% or 15,000 of the registered electors, whichever is less, residing within the limits of the borrower, is filed with the clerk, or other recording officer, of the borrower, requesting a referendum upon the question of the issuance of the bonds, then the bonds shall not be issued until approved by the vote of a majority of the electors of the borrower qualified to vote and voting on the bonds at a general or special election." If the 45-day referendum period expires without a petition requesting a referendum, then the Authority may authorize and issue such bonds.

JUSTIFICATION

Included with this memo are proposed resolutions authorizing the publication of Notice of Intent to issue regional water supply and regional sewer disposal system revenue bonds in the amounts of \$400 million and \$200 million respectively. This authorization would provide for continued funding for improvements to the system in three ways.

- 1. The approved, State Revolving Fund (SRF) loan #7532-02 for \$111 million related to CIP #122004 GLWA 96-inch Water Main Relocation Phase 2 which will be closing in calendar year 2022;
- 2. Additional SRF loan applications that align with the capital improvement program; and;
- 3. A market-based revenue bond transaction consistent with the ten-year financial plan presented to the Audit Committee and Board of Directors in conjunction with the FY 2023 & FY2024 Biennial Budget and FY 2023 Charges. That ten-year plan contemplated a transaction in calendar year 2022 with *net* bond proceeds of \$176 million for the water system and \$138 million for the sewer system in addition to the state revolving fund.

It should be noted that the management for the local water supply and local sewer disposal systems (Detroit Water & Sewerage Department, DWSD) has indicated that there is currently have sufficient funds available to meet capital project requirements. No additional bond proceeds beyond state revolving fund loans are requested by DWSD at this time for at least the next two years.

BUDGET IMPACT

The debt service payments on the regional SRF project are anticipated to start in FY 2023 with minimal amounts of interest due, because of the projected draw down schedules. This minimal interest expense on the loan is included in the FY 2023 water budget.

Anticipated debt service associated with a potential FY 2023 bond transaction has been included in the approved FY 2023 & FY 2024 Biennial budget as applicable.

COMMITTEE REVIEW

This matter was reviewed by the GLWA Audit Committee at its meeting on March 25, 2022. The Audit Committee *[pending action]* that the GLWA Board of Directors *[pending action]* the Resolutions Authorizing Publication of Notice of Intent to Issue Water Supply System Revenue Bonds of \$400,000,000 and Sewer Disposal System Revenue Bonds of \$200,000,000 in an Amount Not to Exceed \$600,000,000 as presented.

<u>Great Lakes Water Authority</u> <u>Resolution 2022-120</u> <u>RE: Authorizing Publication of Notice of Intent</u> to Issue Sewage Disposal System Revenue Bonds

By Board Member:

| Whereas | The Great Lakes Water Authority (the "Authority") is authorized to issue revenue bonds pursuant to the provisions of Act 94, Public Acts of Michigan, 1933, as amended ("Act 94") for the purpose of paying all or part of the costs of purchasing, acquiring, constructing, improving, enlarging, extending and repairing the Sewer System as defined in the Regional Sewage Disposal System Lease, dated June 12, 2015, between the City of Detroit and the Authority; and |
|---------|---|
| Whereas | The Authority intends to issue one or more series of revenue bonds for the purposes hereinafter set forth; and |
| Whereas | Section 33 of Act 94 requires the publication of a notice of intent to issue bonds at least 45 days prior to the issuance of such bonds. |

Now, Therefore Be It:

- **Resolved** That the Chief Financial Officer is hereby instructed to cause the publication of a notice of intent to issue bonds with respect to the hereinafter-described bonds once in the *Detroit Free Press* or the *Detroit News*, so as to be prominently displayed therein, and it is hereby found that each such newspaper has general circulation in the territory of the Authority; **And Be it Further**
- **Resolved** That the notice of intent to issue bonds shall be in substantially the following form with such necessary or desirable changes as may be approved by the Chief Financial Officer, her approval to be conclusively evidenced by the publication of the notice of intent to issue bonds:

NOTICE OF INTENT TO ISSUE SEWAGE DISPOSAL SYSTEM REVENUE BONDS BY THE GREAT LAKES WATER AUTHORITY

TO THE ELECTORS OF THE CHARTER COUNTY OF MACOMB, THE COUNTY OF OAKLAND AND THE CHARTER COUNTY OF WAYNE:

NOTICE IS HEREBY GIVEN, that the Great Lakes Water Authority (the "Authority"), a municipal authority organized and existing under the provisions of Act No. 233, Public Acts of Michigan, 1955, as amended, intends to issue its sewage disposal system revenue bonds in one or more series in the aggregate principal amount of not to exceed \$200,000,000 for the purpose of paying all or part of the cost of acquiring and constructing facilities, replacements, extensions, improvements and repairs to the City of Detroit's sewage disposal system (the "Sewer System"), which Sewer System is described and defined in the Regional Sewage Disposal System Lease dated June 12, 2015, between the City of Detroit (the "City") and the Authority (the "Lease"). As set forth in the Lease, the Sewer System consists of (i) the Regional Sewer System, which is that portion of the Sewer System that provides sewer service to wholesale customers thereof and to individual customers within and outside the City ("Retail Sewer Customers") that receive sewer service directly from the hereinafter described Local Sewer System up to the point of connection to the Local Sewer System and (ii) the Local Sewer System, which is that portion of the Sewer System that provides service directly to Retail Sewer Customers. Pursuant to the Lease, the City has leased the Regional Sewer System to the Authority for a period of forty (40) years and the Authority is authorized to issue revenue bonds under Act No. 94, Public Acts of Michigan, 1933, as amended ("Act 94") for the foregoing purposes.

The bonds of each series will mature in not to exceed forty (40) years after the original issuance date of the respective series of bonds, and will bear interest at rates to be determined upon the sale thereof but in no event to exceed such rates as may be permitted by law.

SOURCE OF PAYMENT OF REVENUE BONDS

The bonds will be issued under and pursuant to the provisions of Act 94 and a resolution or ordinance of the Board of Directors of the Authority and will be payable from the net revenues of the Sewer System and any improvements, enlargements and extensions thereto, and a statutory lien on said revenues will be established by said resolution or ordinance. The Authority will covenant and agree to fix and maintain, or cause to be fixed and maintained, at all times while any of the bonds shall be outstanding such rates and charges for service furnished by the Sewer System as shall be sufficient to provide for payment of the necessary expenses of operation, maintenance and administration of the Sewer System and of the principal of and interest on the bonds when due, and to provide for such other expenditures, accounts and funds for the Sewer System as are required by the resolution or ordinance authorizing the issuance of bonds.

RIGHT TO PETITION FOR REFERENDUM

This notice is given, by order of the Board of Directors of the Authority, to and for the benefit of the electors of the Charter County of Macomb, the County of Oakland and the Charter County of Wayne (collectively, the "Authority District") in order to inform them of their right to petition for a referendum upon the question of the issuance of the aforesaid bonds. The bonds will be issued, without submitting such a question to a vote of the electors, unless within 45 days after the date of publication of this notice, a petition requesting a referendum upon such question, signed by not less than 15,000 of the registered electors residing in the Authority District shall have been filed with the Secretary of the Authority. The address of the Secretary of the Authority is 735 Randolph, Detroit, Michigan 48226. In the event that such a petition is filed, the bonds will not be issued unless and until the issuance thereof shall have been approved by the vote of a majority of the electors of the Authority District qualified to vote and voting thereon at a general or special election.

FURTHER INFORMATION

Further information relative to the issuance of said bonds, the Lease and the subject matter of this notice may be secured at the office of the Chief Financial Officer of the Great Lakes Water Authority, 735 Randolph, Room 1608, Detroit, Michigan 48226.

This notice is given pursuant to the provisions of Section 33 of Act 94.

Nicolette N. Bateson Chief Financial Officer & Treasurer Great Lakes Water Authority

And Be it Further

- **Resolved** That it is hereby determined that the foregoing form of notice of intent to issue bonds and the manner of publication so directed are adequate notice to the electors of the constituent public corporations of the Authority and are well calculated to inform them of the intention of the Authority to issue the revenue bonds, the source of payment therefor, and the right of referendum on the revenue bonds; **And Be it Further**
- **Resolved** That all resolutions and parts of resolutions insofar as they conflict with the provisions of this resolution be and the same hereby are rescinded.

Adopted by the Great Lakes Water Authority Board on: {Month, Day, Year}

<u>Great Lakes Water Authority</u> <u>Resolution 2022-120</u> <u>RE: Authorizing Publication of Notice of Intent</u> <u>to Issue Water Supply System Revenue Bonds</u>

By Board Member:

| Whereas | The Great Lakes Water Authority (the "Authority") is authorized to issue revenue bonds pursuant to the provisions of Act 94, Public Acts of Michigan, 1933, as amended ("Act 94") for the purpose of paying all or part of the costs of purchasing, acquiring, constructing, improving, enlarging, extending and repairing the Water System as defined in the Regional Water Supply System Lease, dated June 12, 2015, between the City of Detroit and the Authority; and |
|---------|--|
| Whereas | The Authority intends to issue one or more series of revenue bonds for the purposes hereinafter set forth; and |
| Whereas | Section 33 of Act 94 requires the publication of a notice of intent to issue bonds at least 45 days prior to the issuance of such bonds. |

Now, Therefore Be It:

- **Resolved** That the Chief Financial Officer is hereby instructed to cause the publication of a notice of intent to issue bonds with respect to the hereinafter-described bonds once in the *Detroit Free Press* or the *Detroit News*, so as to be prominently displayed therein, and it is hereby found that each such newspaper has general circulation in the territory of the Authority; **And Be it Further**
- **Resolved** That the notice of intent to issue bonds shall be in substantially the following form with such necessary or desirable changes as may be approved by the Chief Financial Officer, her approval to be conclusively evidenced by the publication of the notice of intent to issue bonds:

NOTICE OF INTENT TO ISSUE WATER SUPPLY SYSTEM REVENUE BONDS BY THE GREAT LAKES WATER AUTHORITY

TO THE ELECTORS OF THE CHARTER COUNTY OF MACOMB, THE COUNTY OF OAKLAND AND THE CHARTER COUNTY OF WAYNE:

NOTICE IS HEREBY GIVEN, that the Great Lakes Water Authority (the "Authority"), a municipal authority organized and existing under the provisions of Act No. 233, Public Acts of Michigan, 1955, as amended, intends to issue its water supply system revenue bonds in one or more series in the aggregate principal amount of not to exceed \$400,000,000 for the purpose of paying all or part of the cost of acquiring and constructing facilities, replacements, extensions, improvements and repairs to the City of Detroit's water supply system (the "Water System"), which Water System is described and defined in the Regional Water Supply System Lease dated June 12, 2015, between the City of Detroit (the "City") and the Authority (the "Lease"). As set forth in the Lease, the Water System consists of (i) the Regional Water System, which is that portion of the Water System that provides water service to wholesale customers thereof and to individual customers within and outside the City ("Retail Water Customers") that receive water service directly from the hereinafter described Local Water System up to the point of connection to the Local Water System and (ii) the Local Water System, which is that portion of the Water System that provides service directly to Retail Water Customers. Pursuant to the Lease, the City has leased the Regional Water System to the Authority for a period of forty (40) years and the Authority is authorized to issue revenue bonds under Act No. 94, Public Acts of Michigan, 1933, as amended ("Act 94") for the foregoing purposes.

The bonds of each series will mature in not to exceed forty (40) years after the original issuance date of the respective series of bonds, and will bear interest at rates to be determined upon the sale thereof but in no event to exceed such rates as may be permitted by law.

SOURCE OF PAYMENT OF REVENUE BONDS

The bonds will be issued under and pursuant to the provisions of Act 94 and a resolution or ordinance of the Board of Directors of the Authority and will be payable from the net revenues of the Water System and any improvements, enlargements and extensions thereto, and a statutory lien on said revenues will be established by said resolution or ordinance. The Authority will covenant and agree to fix and maintain, or cause to be fixed and maintained, at all times while any of the bonds shall be outstanding such rates and charges for service furnished by the Water System as shall be sufficient to provide for payment of the necessary expenses of operation, maintenance and administration of the Water System and of the principal of and interest on the bonds when due, and to provide for such other expenditures, accounts and funds for the Water System as are required by the resolution or ordinance authorizing the issuance of bonds.

RIGHT TO PETITION FOR REFERENDUM

This notice is given, by order of the Board of Directors of the Authority, to and for the benefit of the electors of the Charter County of Macomb, the County of Oakland and the Charter County of Wayne (collectively, the "Authority District") in order to inform them of their right to petition for a referendum upon the question of the issuance of the aforesaid bonds. The bonds will be issued, without submitting such a question to a vote of the electors, unless within 45 days after the date of publication of this notice, a petition requesting a referendum upon such question, signed by not less than 15,000 of the registered electors residing in the Authority District shall have been filed with the Secretary of the Authority. The address of the Secretary of the Authority is 735 Randolph, Detroit, Michigan 48226. In the event that such a petition is filed, the bonds will not be issued unless and until the issuance thereof shall have been approved by the vote of a majority of the electors of the Authority District qualified to vote and voting thereon at a general or special election.

FURTHER INFORMATION

Further information relative to the issuance of said bonds, the Lease and the subject matter of this notice may be secured at the office of the Chief Financial Officer of the Great Lakes Water Authority, 735 Randolph, Room 1608, Detroit, Michigan 48226.

This notice is given pursuant to the provisions of Section 33 of Act 94.

Nicolette N. Bateson Chief Financial Officer & Treasurer Great Lakes Water Authority

And Be it Further

- **Resolved** That it is hereby determined that the foregoing form of notice of intent to issue bonds and the manner of publication so directed are adequate notice to the electors of the constituent public corporations of the Authority and are well calculated to inform them of the intention of the Authority to issue the revenue bonds, the source of payment therefor, and the right of referendum on the revenue bonds; **And Be it Further**
- **Resolved** That all resolutions and parts of resolutions insofar as they conflict with the provisions of this resolution be and the same hereby are rescinded.

Adopted by the Great Lakes Water Authority Board on: {Month, Day, Year}

AGENDA ITEM #7C

Page 50



Financial Services Audit Committee Communication

Date: March 25, 2022

To: Great Lakes Water Authority Audit Committee

From: Lisa L. Mancini, Financial Planning & Analysis Manager

Re: FY 2022 Second Quarter Budget Amendments through December 31, 2021, 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 second quarter budget amendments include the following.

- A. There is a net increase to the Water System revenues of \$0.5 million. This is due to increases in the following.
 - \$0.4 million Investment earnings adjustment based on revised interest rates and cashflow forecast.
 - \$0.1 million Other revenues adjustment for energy rebates and lease revenues.
- B. There is a net decrease to the Sewer System revenues of \$2.7 million due to the following.
 - \$2.4 million decrease Highland Park bad debt adjustment (combined with the first quarter adjustment of \$3.0 million to bring the total FY 2022 adjustment to \$5.4 million).
 - \$0.7 million decrease Industrial Waste Control Charges adjustment based on revised FY 2022 forecast.
 - \$0.4 million increase Investment earnings adjustment based on revised interest rates and cashflow forecast.
 - ▶ \$90.0 thousand increase Other revenues adjustment for energy rebates.

C. The Capital Spending Ratio for the sewer capital improvement plan has increased from 77.0% to 78.0% which equates to \$1.1 million. The Capital Spending Ratio remains at 80.4% for the water capital improvement plan as amended in the first quarter.

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 also attached.

Proposed Action: The Audit Committee recommends that the Board of Directors for the Great Lakes Water Authority adopt the proposed budget resolution for the second quarter FY 2022 budget amendments.



Table 1A - Appropriation Level - Revenue Requirement - Water System General Operating

| | FY 2022 Total Board 1st Quar | | Total st Quarter | Total 2nd Quarter | | FY 2022 | FY 2022 |
|--|---------------------------------|----|---------------------|----------------------|-----------|----------------|----------------|
| | Adopted | | FY 2022 | _ | FY 2022 | Amended | Activity Thru |
| Water System | Budget | Ar | mendments | A | mendments | Budget | 12/31/2021 |
| Revenues | | | | | | | |
| Suburban Wholesale Customer Charges | \$ 321,110,900 | \$ | (2,400,000) | \$ | - | \$ 318,710,900 | \$ 162,992,800 |
| Retail Service Charges | 21,697,300 | | - | | - | 21,697,300 | 10,848,600 |
| Investment Earnings | 1,047,300 | | 500,000 | | 376,500 | 1,923,800 | 1,057,000 |
| Other Revenues | 175,000 | | - | | 116,000 | 291,000 | 247,000 |
| Total Revenues | \$ 344,030,500 | \$ | (1,900,000) | \$ | 492,500 | \$ 342,623,000 | \$ 175,145,400 |
| Revenue Requirements | | | | | | | |
| Operations & Maintenance Expense | \$ 143,933,800 | \$ | - | \$ | - | \$ 143,933,800 | \$ 67,115,300 |
| General Retirement System Legacy Pension | 6,048,000 | | - | | - | 6,048,000 | 3,024,000 |
| Debt Service | 135,481,000 | | (360,000) | | - | 135,121,000 | 67,853,500 |
| General Retirement System Accelerated Pension | 6,268,300 | | _ | | _ | 6,268,300 | 3,134,300 |
| Extraordinary Repair & Replacement Deposit | - | | - | | - | - | - |
| Water Residential Assistance Program Contribution | 1,705,500 | | _ | | _ | 1,705,500 | 852,800 |
| Regional System Lease | 22,500,000 | | _ | | _ | 22,500,000 | 11,250,000 |
| DWSD Budget Shortfall Pending | - | | _ | | - | - | - |
| Improvement & Extension Fund Transfer Pending | 28,093,900 | | (1,540,000) | | 492,500 | 27,046,400 | 13,698,600 |
| Total Revenue Requirements | \$ 344,030,500 | \$ | (1,900,000) | | | \$ 342,623,000 | \$ 166,928,500 |
| Net Actual to Date | \$ - | \$ | | \$ | | \$ - | \$ 8,216,900 |



| Appropriation Level – Revenue Requirement – Water System General Operating Budget Amendment Explanation | | | | | |
|---|---|--|--|--|--|
| Revenues | | | | | |
| Suburban Wholesale Customer | No budget amendment is required. | | | | |
| Charges | | | | | |
| Retail Services Charges | No budget amendment is required. | | | | |
| Investment Earnings | The increase is based on the revised interest rates and cashflow forecast. | | | | |
| Other Revenues | The budget amendment proposed is based on activity to date for energy rebates and lease | | | | |
| | payments received (radio towers and easements). This source of revenue fluctuates from | | | | |
| | year to year. | | | | |
| Revenue Requirements (Expenditur | es) | | | | |
| Operations & Maintenance Expense | No budget amendment is required. | | | | |
| General Retirement System Legacy | No budget amendment is required. Budget and funding are on a fixed schedule. | | | | |
| Pension | | | | | |
| Debt Service | No budget amendment is required. | | | | |
| General Retirement System Legacy | No budget amendment is required. Budget and funding are on a fixed schedule. | | | | |
| Pension – Accelerated Payment | | | | | |
| Extraordinary Repair & | No budget amendment is required. This is a formulaic requirement in the Master Bond | | | | |
| Replacement Deposit | Ordinance. Based on adopted and amended budget, no adjustment is required. | | | | |
| Water Residential Assistance | No budget amendment is required. Budget is fixed at time of budget adoption. | | | | |
| Program Contribution | | | | | |
| Regional System Lease | No budget amendment is required. Lease payment is established in accordance with terms | | | | |
| | of the lease. | | | | |
| DWSD Budget Shortfall Pending | No budget amendment is proposed at this time. | | | | |



| Appropriation Level – Revenue Requirement – Water System General Operating Budget Amendment Explanation | | | | | | | |
|---|---------|--|--|--|--|--|--|
| Improvement & Extens | on Fund | Represents annual funding for pay-as-you-go capital improvement program. Budget | | | | | |
| Transfer Pending | | amendments to revenues, investment earnings, debt service, and DWSD budget shortfall | | | | | |
| | | affect this line item. | | | | | |



Table 1B - Appropriation Level - Revenue Requirement - Sewer System General Operating

| | FY 2022 Total Board 1st Quarter Adopted FY 2022 | | Total 2nd Quarter FY 2022 | | FY 2022 Amended | FY 2022 Activity Thru | |
|--|---|----|---------------------------------|------------|--------------------|--------------------------|----------------|
| Sewer System | Budget | A | mendments | Amendments | | Budget | 12/31/2021 |
| Revenues | | | | | | | |
| Suburban Wholesale Customer Charges | \$ 272,130,000 | \$ | (3,000,000) | \$ | (2,400,000) | \$ 266,730,000 | \$ 136,134,800 |
| Retail Service Charges | 188,662,200 | | - | | - | 188,662,200 | 94,331,100 |
| Industrial Waste Control Charges | 9,024,800 | | - | | (700,000) | 8,324,800 | 4,159,100 |
| Pollutant Surcharges | 4,188,900 | | - | | - | 4,188,900 | 2,627,100 |
| Investment Earnings | 1,023,300 | | 500,000 | | 352,900 | 1,876,200 | 836,400 |
| Other Revenues | 400,000 | | - | | 90,000 | 490,000 | 287,600 |
| Total Revenues | \$ 475,429,200 | \$ | (2,500,000) | \$ | (2,657,100) | \$ 470,272,100 | \$ 238,376,100 |
| Revenue Requirements | | | | | | | |
| Operations & Maintenance Expense | \$ 181,299,800 | \$ | - | \$ | - | \$ 181,299,800 | \$ 89,629,100 |
| General Retirement System Legacy Pension | 10,824,000 | | - | | - | 10,824,000 | 5,412,000 |
| Debt Service | 207,209,500 | | (2,225,000) | | - | 204,984,500 | 103,656,200 |
| General Retirement System Accelerated Pension | 11,620,700 | | - | | - | 11,620,700 | 5,810,400 |
| Extraordinary Repair & Replacement Deposit | _ | | _ | | - | - | - |
| Water Residential Assistance Program Contribution | 2,358,300 | | - | | - | 2,358,300 | 1,179,200 |
| Regional System Lease | 27,500,000 | | - | | - | 27,500,000 | 13,750,000 |
| DWSD Budget Shortfall Pending | - | | - | | - | - | 1,358,400 |
| Improvement & Extension Fund | | | | | | | |
| Transfer Pending | 34,616,900 | | (275,000) | | (2,657,100) | 31,684,800 | 16,749,300 |
| Total Revenue Requirements | \$ 475,429,200 | \$ | (2,500,000) | \$ | (2,657,100) | \$ 470,272,100 | \$ 237,544,600 |
| Net Actual to Date | \$- | \$ | - | \$ | | \$- | \$ 831,500 |



| Appropriation Level – Revenue Rec | uirement – Sewer System General Operating Budget Amendment Explanation |
|-----------------------------------|---|
| Revenues | |
| Suburban Wholesale Customer | The reduction to this category is the result of an adjustment to the allowance for bad debt |
| Charges | expense for Highland Park. |
| Retail Services Charges | No budget amendment is required. |
| Industrial Waste Control Charges | The budget amendment proposed is based on a review of billings to date and a revised FY |
| | 2022 forecast. |
| Pollutant Surcharges | No budget amendment is required. |
| Investment Earnings | The increase is based on the revised interest rates and cashflow forecast. |
| Other Revenues | The budget amendment proposed is based on activity to date for energy rebates. This |
| | source of revenue fluctuates from year to year. |
| Revenue Requirements (Expenditur | es) |
| Operations & Maintenance Expense | No budget amendment is required. |
| General Retirement System Legacy | No budget amendment is required. Budget and funding are on a fixed schedule. |
| Pension | |
| Debt Service | No budget amendment is required. |
| General Retirement System Legacy | No budget amendment is required. Budget and funding are on a fixed schedule. |
| Pension – Accelerated Payment | |
| Extraordinary Repair & | No budget amendment is required. This is a formulaic requirement in the Master Bond |
| Replacement Deposit | Ordinance. Based on adopted and amended budget, no adjustment is required. |
| Water Residential Assistance | No budget amendment is required. Budget is fixed at time of budget adoption. |
| Program Contribution | |
| Regional System Lease | No budget amendment is required. Lease payment is established in accordance with terms |
| | of the lease. |



| Appropriation Level – Revenue Requirement – Sewer System General Operating Budget Amendment Explanation | | | | | | |
|---|---|--|--|--|--|--|
| DWSD Budget Shortfall Pending | No budget amendment is proposed at this time. The 2018 Memorandum of Understanding provides guidance related to repayment to the extent that the shortfall is not cured by other means before June 30 th of the subsequent year. Communication with DWSD Management indicates that plans are cautiously optimistic that the shortfall will be cured by year-end. | | | | | |
| Improvement & Extension Fund Transfer Pending | Represents annual funding for pay-as-you-go capital improvement program. Budget amendments to revenues, investment earnings, debt service, and DWSD budget shortfall affect this line item. | | | | | |



Table 1C - Supplemental Information – Operating Fund Level - Water System and Sewer System

| System | FY 2022 Board Adopted Budget | Total 1st Quarter FY 2022 Amendments | Total 2nd Quarter FY 2022 Amendments | FY 2022 Amended Budget | FY 2022 Activity Thru 12/31/2021 |
|------------------------------|---------------------------------------|---|---|------------------------------|--|
| Water System Operations | \$ 143,933,800 | - \$ | \$- | \$ 143,933,800 | \$ 67,115,300 |
| Wastewater System Operations | 181,299,800 | - | - | 181,299,800 | 89,629,100 |
| Total | \$ 325,233,600 | - \$ | \$- | \$ 325,233,600 | \$ 156,744,400 |

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.



Table 1D - Supplemental Information - Enterprise-wide Core Groups

| O&M Major Budget Categories (Core Groups) | FY 2022 Board Adopted Budget | Total 1st Quarter FY 2022 Amendments | Total 2nd Quarter FY 2022 Amendments | FY 2022 Amended Budget | FY 2022 Activity Thru 12/31/2021 |
|--|---------------------------------------|---|---|------------------------------|--|
| A Water System Operations | \$ 74,813,000 | \$- | \$- | \$ 74,813,000 | \$ 38,647,400 |
| B Wastewater System Operations | 111,971,400 | - | - | 111,971,400 | 56,534,500 |
| C Centralized Services | 103,845,900 | - | - | 103,845,900 | 45,844,700 |
| D Administrative & Other Services | 34,603,300 | - | - | 34,603,300 | 15,717,800 |
| Total | \$ 325,233,600 | \$- | \$- | \$ 325,233,600 | \$ 156,744,400 |

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., 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 second quarter FY 2022, there are no amendments that cross the core groups. For more activity within these groups, see *Supplemental Information - Enterprise-wide Operations & Maintenance Department and Account Level Amendments (Addendum 1).*



| O&M Expense Categories (Account Type) | FY 2022 Board Adopted Budget | Total 1st Quarter FY 2022 Amendments | Total 2nd Quarter FY 2022 Amendments | FY 2022 Amended Budget | FY 2022 Activity Thru 12/31/2021 |
|--|---------------------------------------|---|---|------------------------------|--|
| Personnel Costs | \$ 115,437,400 | \$ (1,436,600) | \$ (92,700) | \$ 113,908,100 | \$ 54,679,800 |
| Utilities | 50,398,000 | - | 42,900 | 50,440,900 | 27,899,600 |
| Chemicals | 16,044,300 | - | 1,470,400 | 17,514,700 | 9,384,100 |
| Supplies & Other | 38,559,700 | 1,057,200 | (2,534,200) | 37,082,700 | 13,911,000 |
| Contractual Services | 103,375,700 | 1,459,000 | 1,958,600 | 106,793,300 | 53,627,400 |
| Capital Program Allocation | (3,471,000) | - | _ | (3,471,000) | (1,388,700) |
| Shared Services | (1,892,500) | (883,200) | (153,300) | (2,929,000) | (1,368,800) |
| Unallocated Reserve | 6,782,000 | (196,400) | (691,700) | 5,893,900 | - |
| Total | \$ 325,233,600 | \$- | \$- | \$ 325,233,600 | \$ 156,744,400 |

Table 1E - Supplemental Information - Enterprise-wide Operations & Maintenance Account Type

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 2022 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).*



| | FY 2022 | | | Total | | Total | | |
|---------------------------------|---------|-----------|----|-------------|----|-----------|----|-----------|
| | | Board | | st Quarter | 2n | d Quarter | | FY 2022 |
| | | Adopted | | FY 2022 | | FY 2022 | 4 | Amended |
| O&M Unallocated Reserves | | Budget | An | nendments | Am | endments | | Budget |
| Water System Operations | \$ | 1,798,800 | \$ | - | \$ | - | \$ | 1,798,800 |
| Wastewater System Operations | | 2,250,900 | | (1,061,100) | | 153,300 | | 1,343,100 |
| Centralized Services | | 2,187,600 | | (227,100) | | (61,700) | | 1,898,800 |
| Administrative & Other Services | | 544,700 | | 1,091,900 | | (783,300) | | 853,300 |
| Total | \$ | 6,782,000 | \$ | (196,300) | \$ | (691,700) | \$ | 5,894,000 |

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 2022 changes to the unallocated reserve, see *Supplemental Information - Enterprise-wide Operations & Maintenance Department and Account Level Amendments (Addendum 1).*



Table 2A - Appropriation Level - Debt Service Coverage Calculation - Water System

| | FY 2022 Board Adopted | 1st Quarter FY 2022 Amendments | | 1st Quarter FY 2022 Amendments | | FY 2022 Amended | 2nd Quarter FY 2022 Amendments | 2nd Quarter FY 2022 Amendments | FY 2022 Amended |
|--|-----------------------------|--------------------------------------|--------------|--------------------------------------|-------------|--------------------|--------------------------------------|--------------------------------------|--------------------|
| Water System - Debt Service Coverage Calculation | Budget | Reg | ional System | L | ocal System | Budget | Regional System | Local System | Budget |
| Revenues | | | | | | | | | |
| 1 Regional System Wholesale Revenues | \$ 342,808,200 | \$ | (2,400,000) | \$ | - | \$340,408,200 | \$- | \$ - | \$340,408,200 |
| 2 Local System Revenues | 73,264,300 | | - | | (3,626,300) | 69,638,000 | - | - | 69,638,000 |
| 3 Miscellaneous Revenue (Local System) | 6,428,400 | | - | | (2,614,900) | 3,813,500 | - | - | 3,813,500 |
| 4 Non-Operating Revenue (Regional System) | 1,222,300 | | 500,000 | | - | 1,722,300 | 492,500 | - | 2,214,800 |
| 5 Total Revenues | \$ 423,723,200 | \$ | (1,900,000) | \$ | (6,241,200) | \$415,582,000 | \$ 492,500 | \$- | \$416,074,500 |
| Revenue Requirements Operations & Maintenance Expense | | | | | | | | | |
| 6 Regional System Wholesale Expenses | \$ 143,933,800 | \$ | - | \$ | - | \$143,933,800 | \$ - | \$ - | \$143,933,800 |
| 7 Local System Expenses | 34,648,600 | | - | | (4,659,600) | 29,989,000 | - | - | 29,989,000 |
| 8 GRS Pension allocable to Regional System | 6,048,000 | | - | | - | 6,048,000 | - | - | 6,048,000 |
| 9 GRS Pension allocable to Local System | 4,272,000 | | - | | - | 4,272,000 | - | - | 4,272,000 |
| 10 Total Operations & Maintenance Expense | 188,902,400 | | - | | (4,659,600) | 184,242,800 | - | - | 184,242,800 |
| 11 Net Revenues after Operations & Maintenance Expense | \$ 234,820,800 | \$ | (1,900,000) | \$ | (1,581,600) | \$231,339,200 | \$ 492,500 | \$- | \$231,831,700 |
| Debt Service by Lien | | | | | | | | | |
| 12 Senior Lien Bonds | \$ 124,309,700 | \$ | - | \$ | - | \$124,309,700 | \$- | \$- | \$124,309,700 |
| 13 Second Lien Bonds | 46,840,400 | | - | | - | 46,840,400 | - | - | 46,840,400 |
| 14 SRF Junior Lien Bonds | 6,695,100 | | (360,000) | | - | 6,335,100 | - | - | 6,335,100 |
| 15 Total Debt Service | \$ 177,845,200 | \$ | (360,000) | \$ | - | \$177,485,200 | \$- | \$- | \$177,485,200 |
| Debt Service Coverage | | | | | | | | | |
| 16 Senior Lien Bonds (11)/(12) | 1.89 | | (0.02) | | (0.01) | 1.86 | 0.00 | 0.00 | 1.86 |
| 17 Second Lien Bonds (11) / [(12)+(13)] | 1.37 | | (0.01) | | (0.01) | 1.35 | 0.00 | 0.00 | 1.35 |
| 18 SRF Junior Lien Bonds (11) / (15) | 1.32 | | (0.01) | | (0.01) | 1.30 | 0.00 | 0.00 | 1.31 |

* Rows highlighted in light grey in the above table are designed to align with the DWSD Budget.

** Total Debt Service, highlighted in dark grey (Row 15) in the above table, is adopted by the GLWA Board.



| Appropriation Level - Debt Serv | vice - Water System Debt Service Coverage Calculation Budget Amendment |
|---------------------------------|--|
| Explanation | |
| Total Debt Service | For purposes of Debt Service coverage, we look at the combined Regional and Local (DWSD) revenue less operations & maintenance (O&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 of and interest on all Regional Water System bonds and to restore any reserves therefore established in the Master Bond |
| | Ordinance. |



Table 2B - Appropriation Level - Debt Service Coverage Calculation - Sewer System

| | FY 2022 Board Adopted | A | 1st Quarter FY 2022 Amendments | | 1st Quarter FY 2022 mendments | FY 2022 Amended | 2nd Quarter FY 2022 Amendments | 2nd Quarter FY 2022 Amendments | FY 2022 Amended |
|--|-----------------------------|-----|--------------------------------------|----|-------------------------------------|--------------------|--------------------------------------|--------------------------------------|--------------------|
| Sewer System - Debt Service Coverage Calculation | Budget | Reç | gional System | | ocal System | Budget | Regional System | Local System | Budget |
| Revenues | ¢ 474.005.000 | ۴ | (2,000,000) | ۴ | | ¢ 474 005 000 | ¢ (0.400.000) | ۴ | ¢ 407 005 000 |
| 1 Regional System Wholesale Revenues | \$ 474,005,900 | \$ | (3,000,000) | \$ | - | \$471,005,900 | \$ (3,100,000) | \$ - | \$467,905,900 |
| 2 Local System Revenues | 104,684,700 | | - | | (6,803,300) | 97,881,400 | - | - | 97,881,400 |
| 3 Miscellaneous Revenue (Local System) | 6,810,800 | | - | | 364,200 | 7,175,000 | - | - | 7,175,000 |
| 4 Non-Operating Revenue (Regional System) | 1,423,300 | • | 500,000 | - | - | 1,923,300 | 442,900 | - | 2,366,200 |
| 5 Total Revenues | \$ 586,924,700 | \$ | (2,500,000) | \$ | (6,439,100) | \$577,985,600 | \$ (2,657,100) | \$ - | \$575,328,500 |
| Revenue Requirements Operations & Maintenance Expense | | | | | | | | | |
| 6 Regional System Wholesale Expenses | \$ 181,299,800 | \$ | - | \$ | - | \$181,299,800 | \$ - | \$ - | \$181,299,800 |
| 7 Local System Expenses | 69,233,000 | | - | | (7,932,000) | 61,301,000 | - | - | 61,301,000 |
| 8 GRS Pension allocable to Regional System | 10,824,000 | | - | | - | 10,824,000 | - | - | 10,824,000 |
| 9 GRS Pension allocable to Local System | 2,856,000 | | - | | - | 2,856,000 | - | - | 2,856,000 |
| 10 Total Operations & Maintenance Expense | 264,212,800 | | - | | (7,932,000) | 256,280,800 | - | - | 256,280,800 |
| 11 Net Revenues after Operations & Maintenance Expense | \$ 322,711,900 | \$ | (2,500,000) | \$ | 1,492,900 | \$321,704,800 | \$ (2,657,100) | \$- | \$319,047,700 |
| Debt Service by Lien | | | | | | | | | |
| 12 Senior Lien Bonds | \$ 133,195,700 | \$ | (2,375,000) | \$ | - | \$130,820,700 | \$ - | \$- | \$130,820,700 |
| 13 Second Lien Bonds | 51,893,000 | | - | | - | 51,893,000 | - | - | 51,893,000 |
| 14 SRF Junior Lien Bonds | 53,921,600 | | 150,000 | | - | 54,071,600 | - | - | 54,071,600 |
| 15 Total Debt Service | \$ 239,010,300 | \$ | (2,225,000) | \$ | - | \$236,785,300 | \$- | \$- | \$236,785,300 |
| Debt Service Coverage | | | | | | | | | |
| 16 Senior Lien Bonds (11)/(12) | 2.42 | | (0.02) | | 0.01 | 2.46 | (0.02) | 0.00 | 2.44 |
| 17 Second Lien Bonds (11) / [(12)+(13)] | 1.74 | | (0.01) | | 0.01 | 1.76 | (0.01) | 0.00 | 1.75 |
| 18 SRF Junior Lien Bonds (11) / (15) | 1.35 | | (0.01) | | 0.01 | 1.36 | (0.01) | 0.00 | 1.35 |

* Rows highlighted in light grey in the above table are designed to align with the DWSD Budget.

** Total Debt Service, highlighted in dark grey (Row 15) in the above table, is adopted by the GLWA Board.



| Appropriation Level - Debt Ser | vice - Sewer System Debt Service Coverage Calculation Budget Amendment |
|--------------------------------|--|
| Explanation | |
| Total Debt Service | For purposes of Debt Service coverage, we look at the combined Regional and Local (DWSD) revenue less operations & maintenance (O&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 of and interest on all Regional Sewer System bonds and to restore any reserves therefore established in the Master Bond Ordinance. |



Table 3A - Appropriation Level - Improvement & Extension Fund - Water System

| Water Improvement & Extension Fund | FY 2022 Board Adopted Budget | Total 1st Quarter FY 2022 Amendments | | Total 2nd Quarter FY 2022 Amendments | | FY 2022 Amended Budget | | FY 2022 Activity Thru 12/31/2021 | |
|--|---------------------------------------|---|-------------|---|-------------|------------------------------|--------------|--|------------|
| Revenues | | | | | | | | | |
| Water System Transfers In from General Operating | \$ 28,093,900 | \$ | (1,540,000) | \$ | 492,500 | \$ | 27,046,400 | \$ | 13,698,600 |
| Earnings on Investments (b) | - | | 715,000 | | 614,000 | | 1,329,000 | | 906,600 |
| Net Use of Reserves (a) | 97,220,700 | | 68,800 | | (3,523,300) | | 93,766,200 | | - |
| Total Revenues | \$ 125,314,600 | \$ | (756,200) | \$ | (2,416,800) | \$ | 122,141,600 | \$ | 14,605,200 |
| Expenditures | | | | | | | | | |
| Water System Revenue Transfers Out (b) | \$ - | \$ | 715,000 | \$ | 614,000 | \$ | 1,329,000 | \$ | 915,900 |
| Capital Spending - Other | - | | 567,400 | | - | | 567,400 | | 1,117,700 |
| Capital Outlay | 17,006,600 | | - | | (3,030,800) | | 13,975,800 | | 2,515,700 |
| Revenue Financed Capital - Operating | | | | | | | | | |
| Transfer to Construction Fund | 108,308,000 | | (2,038,600) | | - | | 106,269,400 | | 56,654,100 |
| Total Expenditures | \$ 125,314,600 | \$ | (756,200) | \$ | (2,416,800) | \$ | 122,141,600 | \$ | 61,203,400 |
| (a) Beginning Net Position | | | | | | \$ | 207,475,000 | | |
| Net Use of Reserves | | | | | | \$ | (93,766,200) | | |
| Projected Ending Net Position | | | | | | \$ | 113,708,800 | | |

(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.



| Appropriation Level – Improvement & Extension Fund – Water System Budget Amendment Explanation | | | | | | | |
|--|--|--|--|--|--|--|--|
| Revenues | | | | | | | |
| Transfers In from General Operating | The proposed budget amendment is to match the amount available for transfer from the FY 2022 revenue requirement based upon general operating fund performance. (see I&E Fund Transfer Pending line on the Appropriation Level-Revenue Requirement-Water System General Operating table). | | | | | | |
| Earnings on Investments | Had not been originally budgeted as 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&E Fund is zero as the earnings are budgeted and accounted for in the operating fund to lower revenue requirement for charges. The first quarter amendment was for an estimated amount. The increase proposed for the second quarter amendment is based on the revised interest rates and cashflow forecast. | | | | | | |
| Net Use (Source) of Reserves | 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. | | | | | | |
| Expenditures | | | | | | | |
| Water System Revenue Transfers Out (Earnings on Investments) | Had not been originally budgeted as there is a corresponding transfer of earnings back to the general operating fund as allowed by the Master Bond Ordinance (so the net effect on the I&E Fund is zero). Amendment is for revised estimated amount. 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 between the two lines represents a timing difference. | | | | | | |
| Capital Spending - Other | 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. | | | | | | |



| Appropriation Level – Improvement & Extension Fund – Water System Budget Amendment Explanation | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| Capital Outlay | The proposed budget amendment reflects the decrease in spending which is partially | | | | | | | |
| | driven by the change in project start dates and project scope as well as a correction in the | | | | | | | |
| | funding source (from water to sewer) for the Rialto warehouse upgrades. | | | | | | | |
| Revenue Financed Capital – Transfer | No budget amendment is required. | | | | | | | |
| to Construction Fund | | | | | | | | |



Table 3B - Appropriation Level - Improvement & Extension Fund - Sewer System

| Sewer Improvement & Extension Fund | FY 2022 Board Adopted Budget | | Total 1st Quarter FY 2022 Amendments | | | Total nd Quarter FY 2022 mendments | FY 2022 Amended Budget | | FY 2022 Activity Thru 12/31/2021 | |
|--|---------------------------------------|------------|---|------------|----|---|------------------------------|--------------|--|------------|
| Revenues | | | | | | | | | | |
| Sewer System Transfers In from General Operating | \$ | 34,616,900 | \$ | (275,000) | \$ | (2,657,100) | \$ | 31,684,800 | \$ | 16,749,300 |
| Receipt of DWSD Shortfall Loan Interest | | 406,400 | | - | | (261,500) | | 144,900 | | 105,700 |
| Earnings on Investments (b) | | - | | 500,000 | | 504,900 | | 1,004,900 | | 500,500 |
| Net Use of Reserves (a) | | 28,487,800 | | 18,182,800 | | 4,299,400 | | 50,970,000 | | - |
| Total Revenues | \$ | 63,511,100 | \$ | 18,407,800 | \$ | 1,885,700 | \$ | 83,804,600 | \$ | 17,355,500 |
| Expenditures | | | | | | | | | | |
| Sewer System Revenue Transfers Out (b) | \$ | - | \$ | 500,000 | \$ | 504,900 | \$ | 1,004,900 | \$ | 455,700 |
| Capital Spending - Other | | - | | 722,200 | | - | | 722,200 | | 2,806,800 |
| Capital Outlay | | 15,965,100 | | - | | 1,380,800 | | 17,345,900 | | 2,350,300 |
| Revenue Financed Capital - Operating | | | | | | | | | | |
| Transfer to Construction Fund | | 47,546,000 | | 17,185,600 | | - | | 64,731,600 | | 26,950,000 |
| Total Expenditures | \$ | 63,511,100 | \$ | 18,407,800 | \$ | 1,885,700 | \$ | 83,804,600 | \$ | 32,562,800 |
| (a) Beginning Net Position | | | | | | | \$ | 122,385,000 | | |
| Net Use of Reserves | | | | | | | | (50,970,000) | | |
| Projected Ending Net Position | | | | | | | \$ | 71,415,000 | | |

(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.



| Appropriation Level – Improvement & Extension Fund – Sewer System Budget Amendment Explanations | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|
| Revenues | | | | | | | | | |
| Transfers In from General Operating | The proposed budget amendment is to match the amount available for transfer from FY | | | | | | | | |
| | 2022 revenue requirement based upon general operating fund performance. (see I&E | | | | | | | | |
| | Fund Transfer Pending line on the Appropriation Level-Revenue Requirement-Sewer | | | | | | | | |
| | System General Operating table). | | | | | | | | |
| Receipt of DWSD Shortfall Loan | The proposed budget amendment adjusts the interest earnings on the Note Receivable for | | | | | | | | |
| Interest | the FY 2018 DWSD Sewer System Shortfall to the payment schedule. This note is | | | | | | | | |
| | scheduled to be paid off by June 30, 2022. | | | | | | | | |
| Earnings on Investments | Had not been originally budgeted as 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&E Fund is zero as the earnings are budgeted and accounted for in the operating | | | | | | | | |
| | fund to lower revenue requirement for charges. The first quarter amendment was for an | | | | | | | | |
| | estimated amount. The increase proposed for the second quarter amendment is based on | | | | | | | | |
| | the revised interest rates and cashflow forecast. | | | | | | | | |
| Net Use (Source) of Reserves | 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. | | | | | | | | |
| Expenditures | | | | | | | | | |
| Sewer System Revenue Transfers | Had not been originally budgeted as there is a corresponding transfer of earnings back | | | | | | | | |
| Out (Earnings on Investments) | to the general operating fund as allowed by the Master Bond Ordinance (so the net effect | | | | | | | | |
| | on the I&E Fund is zero). Amendment is for revised estimated amount. 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 between the two | | | | | | | | |
| | lines represents a timing difference. | | | | | | | | |



| Appropriation Level – Improvement & Extension Fund – Sewer System Budget Amendment Explanations | | | | | | | | |
|---|---|--|--|--|--|--|--|--|
| Capital Spending – Other | 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. | | | | | | | |
| Capital Outlay | The proposed budget amendment reflects the correction in the funding source (from | | | | | | | |
| | water to sewer) for the Rialto warehouse upgrades. | | | | | | | |
| Revenue Financed Capital – Transfer | No budget amendment is required. | | | | | | | |
| to Construction Fund | | | | | | | | |



Table 4A - Appropriation Level - Construction Fund - Water System

| Water Construction Fund | FY 2022 Board Adopted Budget | Total st Quarter FY 2022 mendments | F | Total d Quarter TY 2022 dendments | | FY 2022 Amended Budget | FY 2022 ctivity Thru 2/31/2021 |
|--|---------------------------------------|---|----|--|----|------------------------------|--------------------------------------|
| Revenues | | | | | | | |
| Transfer from Improvement & Extension Fund | \$ 108,308,000 | \$ (2,038,600) | \$ | - | \$ | 106,269,400 | \$ 56,654,100 |
| Bond Proceeds | - | - | | - | | - | - |
| Bond Fund Earnings on Investments | - | - | | - | | - | - |
| Grant Revenues (SRF Loans) | 26,100,000 | 10,427,000 | | - | | 36,527,000 | 15,861,600 |
| Net Use of Reserves (a) | - | 772,700 | | - | | 772,700 | - |
| Total Revenues | \$ 134,408,000 | \$ 9,161,100 | \$ | - | \$ | 143,569,100 | \$ 72,515,700 |
| Expenditures | | | | | | | |
| Capital Improvement Plan (b) | \$ 179,210,000 | \$ (567,400) | \$ | - | \$ | 178,642,600 | \$ 83,084,300 |
| Capital Spend Rate Adjustment | (44,802,000) | 9,728,500 | | - | | (35,073,500) | - |
| Total Expenditures (b) | \$ 134,408,000 | \$ 9,161,100 | \$ | - | \$ | 143,569,100 | \$ 83,084,300 |
| (a) Beginning Net Position | | | | | \$ | 12,438,000 | |
| Net Use of Reserves | | | | | | (772,700) | |
| Projected Ending Net Position | | | | | \$ | 11,665,300 | |
| (b) Plus Direct I&E Projects | - | | | | - | 567,400 | |
| Total CIP Expenditures | 134,408,000 | | | | | 144,136,500 | |
| Total Published Capital Improvement Plan | 179,210,000 | | | | | 179,210,000 | |
| Capital Spending Ratio | 75.0% | | | | | 80.4% | |



| Appropriation Level – Constr | Appropriation Level – Construction Fund – Water System Budget Amendment Explanations | | | | | |
|--|---|--|--|--|--|--|
| Revenues | | | | | | |
| Transfers from Improvement | No budget amendment is required. | | | | | |
| & Extension Fund | | | | | | |
| Bond Proceeds | No budget amendment is required. | | | | | |
| Earnings on Investments | No budget amendment is required. | | | | | |
| Grant Revenues | No budget amendment is required. State revolving fund loan disbursements are on a | | | | | |
| (State Revolving Fund Loans) Net Use (Source) of Reserves | reimbursement basis. The amount and timing of funds fluctuates with project expenditures incurred. Details related to the SRF projects are presented in the quarterly debt report. The most recent quarterly debt report is presented in the March 2022 Audit Committee binder which provides details related to the SRF funding and associated projects. No budget amendment is required. This amount represents the net amount of revenues less | | | | | |
| Net use (source) of Reserves | expenditures. A "use of reserves" indicates a spend down of prior year reserves. | | | | | |
| Expenditures | | | | | | |
| Capital Improvement Plan | 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. | | | | | |
| | This amount is reflected on the 'Capital Spending – Other' line on the Water Improvement & | | | | | |
| | Extension Fund table. | | | | | |



| Appropriation Level – Cons | truction Fund – Water System Budget Amendment Explanations |
|----------------------------|---|
| Capital Spend Rate | No budget amendment is required. The Board of Directors adopts a capital spending ratio |
| Assumption Adjustment | 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 Capital spend rate for the Water CIP |
| | was amended for the first quarter from 75.0% (projection at time of the FY 2022 budget |
| | adoption) to 80.4%. No further amendment is being propose for the second quarter. The most |
| | recent quarterly construction work-in-progress report is presented in the October 2021 Audit |
| | <u>Committee binder</u> . |



Table 4B - Appropriation Level - Construction Fund - Sewer System

| | | FY 2022 | | Total | | Total | | | |
|--|----|--------------|----|--------------|----|-------------|-------------------|----|--------------|
| | | Board | 1 | st Quarter | | nd Quarte r | FY 2022 | | FY 2022 |
| Sewer | | Adopted | | FY 2022 | | FY 2022 | Amended | | ctivity Thru |
| Construction Fund | | Budget | A | me ndme nts | An | ne ndme nts | Budget | 1 | 2/31/2021 |
| Revenues | | | | | | | | | |
| Transfer from Improvement & Extension Fund | \$ | 47,546,000 | \$ | 17,185,600 | \$ | - | \$ 64,731,600 | \$ | 26,950,000 |
| Bond Proceeds | | - | | - | | - | - | | - |
| Bond Fund Earnings on Investments | | - | | - | | - | - | | - |
| Grant Revenues (SRF Loans) | | 31,992,000 | | (17,843,000) | | - | 14,149,000 | | 5,043,300 |
| Net Use of Reserves (a) | | - | | 2,008,200 | | 1,100,000 | 3,108,200 | | - |
| Total Revenues | \$ | 79,538,000 | \$ | 1,350,800 | \$ | 1,100,000 | \$ 81,988,800 | \$ | 31,993,300 |
| Expenditures | | | | | | | | | |
| Capital Improvement Plan (b) | \$ | 106,050,000 | \$ | (722,200) | \$ | - | \$ 105,327,800 | \$ | 29,250,700 |
| Capital Spend Rate Adjustment | | (26,512,000) | | 2,073,000 | | 1,100,000 | (23,339,000) | | - |
| Total Expenditures (b) | \$ | 79,538,000 | \$ | 1,350,800 | \$ | 1,100,000 | \$ 81,988,800 | \$ | 29,250,700 |
| (a) Beginning Net Position | | | | | | | \$ 11,473,000 | | |
| Net Use of Reserves | | | | | | | (3,108,200) | | |
| Projected Ending Net Position | | | | | | | \$ 8,364,800 | | |
| (b) Plus Direct I&E Projects | | - | | | | | 722,200 | | |
| Total CIP Expenditures | | 79,538,000 | | | | | 82,711,000 | | |
| Total Published Capital Improvement Plan | 1 | 06,050,000 | | | | | 106,050,000 | | |
| Capital Spending Ratio | | 75.0% | | | | | 78.0% | | |



| Appropriation Level – Construction Fund – Sewer System Budget Amendment Explanations | | | | | |
|--|--|--|--|--|--|
| Revenues | | | | | |
| Transfers from Improvement & | No budget amendment is required. | | | | |
| Extension Fund | | | | | |
| Bond Proceeds | No budget amendment is required. | | | | |
| Earnings on Investments | No budget amendment is required. | | | | |
| Grant Revenues | No budget amendment is required. State revolving fund loan disbursements are on a | | | | |
| (State Revolving Fund Loans) Net Use (Source) of Reserves | reimbursement basis. The amount and timing of funds fluctuates with project expenditures incurred. Details related to the SRF projects are presented in the quarterly debt report. The most recent quarterly debt report is presented in the March 2022 Audit Committee binder which provides details related to the SRF funding and associated projects. 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 increase in the Capital spend rate from 77.0% (first quarter budget amendment projection) to 78.0%. | | | | |
| Expenditures | | | | | |
| Capital Improvement Plan | 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. This amount is reflected on the 'Capital Spending – Other' line on the Water Improvement & Extension Fund table. | | | | |



| Appropriation Level – Construction | Appropriation Level – Construction Fund – Sewer System Budget Amendment Explanations | | | | | |
|------------------------------------|--|--|--|--|--|--|
| Capital Spend Rate Adjustment | The proposed budget amendment represents the increase in the projected Capital spend | | | | | |
| | rate for the Water CIP from 77.0% (first quarter budget amendment projection) to 78.0%. | | | | | |
| | 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 report is presented in the <u>October 2021 Audit Committee</u> | | | | | |
| | <u>binder</u> . | | | | | |



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 2022 second quarter budget amendments result in a net zero change to all 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 Addendum 2 for a view of the operations & maintenance budget by expense category).

- Wastewater System Operations
 - Chemicals Increase of \$1.5 million to adjust for increase in cost and estimated usage in FY 2022.
 - Contractual Services Increase of \$0.9 million for usage demand of the facilities maintenance contract.
 - Supplies & Other Suburban Only Green Infrastructure Allocation: Decrease of \$1.1 million per the review of GLWA's obligations under the current permit.
 - Supplies & Other Decrease of \$0.7 million based on the usage of the HVAC contract (usage varies from year to year and additional work being performed by GLWA team members).
- Administrative & Other Services
 - Contractual Services Board of Directors: Increase of \$0.8 million for the amendment to a contract for the independent investigation into the rain events.

Supplemental Information Enterprise-wide Operations & Maintenance Department and Account Level Amendments

| | Total 2nd Quarter | |
|---|---------------------------|--|
| | FY 2022 | |
| Departmental and Account Level Amendments | Amendments | Explanation of Key Items |
| B Wastewater System Operations | 0 | |
| Baby Creek Combined Sewer Overflow | (12,500) | |
| Chemicals | (12,500) | |
| Belle Isle Combined Sewer Overflow | (21,100) | |
| Chemicals | 10,300 | |
| Shared Services | (31,400) | |
| Belle Isle Pumping Station Shared Services | 8,800 8,800 | |
| Blue Hill Pumping Station | (99,200) | |
| Shared Services | (99,200) | |
| Conner Creek Combined Sewer Overflow | 254,900 | |
| Chemicals | 254,900 | |
| Fischer Pumping Station | (300) | |
| Shared Services | (300) | |
| Hubble Southfield CSO | 17,000 | |
| Chemicals | 17,000 | |
| Leib Combined Sewer Overflow | 29,200 | |
| Chemicals Oakwood Combined Sewer Overflow | 29,200 | |
| Chemicals | 23,900 23,900 | |
| Suburban Only Green Infrastructure Allocation | (1,110,000) | |
| Supplies & Other | | Adjust budget due to review of obligations under the current permit |
| Wastewater Dewatering Process | 118,600 | , <u> </u> |
| Chemicals | 118,600 | |
| Wastewater Director | 700,000 | |
| Contractual Services | 890,000 | Increased usage demand of the facilities maintenance contract |
| Supplies & Other | (190,000) | Deferral of facility renovations (determined not needed in FY 2022) |
| Wastewater Laboratories | 53,500 | |
| Chemicals | 53,500 | |
| Wastewater Operations | (700,000) | |
| Supplies & Other | | Reduction in use of HVAC contract |
| Wastewater Primary Process Chemicals | 467,200 467,200 | |
| Wastewater Process Control | (360,400) | |
| Supplies & Other | • • • • | Deferral due to SCADA system support contract renewal which is currently being negotiated |
| Wastewater Secondary Process | 508,300 | |
| Chemicals | 508,300 | |
| Wastewater System Operations Unallocated Reserves | 153,300 | |
| Unallocated Reserve | | Offset to Wastewater Systems Operations budget adjustments |
| Woodmere Pumping Station | (31,200) | |
| Shared Services | (31,200) | |
| C Centralized Services | 61 700 | Transfer from Owners' Representative (Financial Services Area reorganization) |
| Capital Improvement Planning Personnel | 61,700 | Transier from Owners Representative (Financial Services Area reorganization) |
| Info Tech Enterprise Asset Mgmt Systems | 01,700 | |
| Contractual Services | 200,000 | |
| Supplies & Other | (200,000) | |
| Info Technology Service Delivery | 0 | |
| Personnel | 100 | |
| Supplies & Other | (100) | |
| Office of Emergency Preparedness | , | Establish budget for new cost center (Offset Security and Integrity) |
| Contractual Services | 37,500 | |
| Personnel | 130,600 | |
| Supplies & Other | 2,500 0 | |
| Office of the CIO Contractual Services | (34,500) | |
| Supplies & Other | (34,500) | |
| Security and Integrity | , | Transfer budget to new cost center (Office of Emergency Preparedness) |
| Contractual Services | (76,300) | |
| Personnel | (94,300) | |
| Centralized Services Unallocated Reserves | (61,700) | |
| Unallocated Reserve | | Offset to Centralized Services budget adjustments |
| D Administrative & Other Services | 0 | |
| Administrative Services Unallocated Reserves | • • • • | Primarily used to offset the amendment to the AECOM contract (See Board of Directors below) |
| Unallocated Reserve | (783,300) | |
| Board of Directors | 800,000 | Estimated EV 2022 partian of amondment to AECOM contract for the independent investigation into the |
| Contractual Services | 800,000 | Estimated FY 2022 portion of amendment to AECOM contract for the independent investigation into the June and July 2021 rain events (Offset Unallocated Reserves) |
| Chief Administrative Officer | 0 | |
| Contractual Services | (3,700) | |
| Supplies & Other | 3,700 | |
| Financial Management & Planning | 54,000 | |
| Contractual Services | 58,000 | |
| Supplies & Other | (4,000) | |

Supplemental Information Enterprise-wide Operations & Maintenance Department and Account Level Amendments

| | Total 2nd Quarter | |
|---|----------------------|--|
| | FY 2022 | |
| Departmental and Account Level Amendments | Amendments | Explanation of Key Items |
| Financial Reporting & Accounting | (130,700) | |
| Contractual Services | (100,000) | |
| Supplies & Other | (30,700) | |
| General Counsel | 153,000 | |
| Contractual Services | 153,300 | |
| Supplies & Other | (300) | |
| Logistics and Materials | 266,100 | Adjust budget for the operation of the new Rialto warehouse |
| Contractual Services | 118,000 | |
| Personnel | 6,000 | |
| Supplies & Other | 99,200 | |
| Utilities | 42,900 | |
| OD Talent Management | 0 | |
| Contractual Services | (108,700) | |
| Personnel | 70,700 | |
| Supplies & Other | 38,000 | |
| Owners' Representative | (437,400) | Reorganization of the Owners' Representative cost center throughout various Finanical Services |
| | | groups (Offset Unallocated Reserves, Procurement Director, and Capital Improvement Planning) |
| Capital Program Allocation | 14,400 | |
| Contractual Services | (25,000) | |
| Personnel | (402,700) | |
| Supplies & Other | (24,100) | |
| Procurement Director | 78,300 | Transfer from Owners' Representative (Financial Services Area reorganization) |
| Capital Program Allocation | (14,400) | |
| Contractual Services | 50,000 | |
| Personnel | 90,200 | |
| Supplies & Other | (47,500) | |
| Public Affairs | 0 | |
| Personnel | 45,000 | |
| Supplies & Other | (45,000) | |
| Grand Total | 0 | |

Totals may be off due to rounding



Supplemental Information -

Enterprise-wide Operations & Maintenance Account Type and Department Level Amendments

The table in Addendum 2 summarizes the FY 2022 second 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.

Supplemental Information Enterprise-wide Operations & Maintenance Account Type and Department Level Amendments

| Interface Interface <t< th=""><th></th><th>Total</th><th></th></t<> | | Total | |
|--|---|--------------|--|
| Amendments Explanation of 40 years Owner Representative 14.00.00 Owner Representative 14.00.00 Owner Representative 14.00.00 Beneticitie 14.00.00 Beneticitie 14.00.00 Conner Constined Sever Overflow 12.00.00 Baby Creak Combined Sever Overflow 22.00.00 Conner Constined Sever Overflow 22.00.00 Owner Representative 44.00.00 Owner Representative 42.00.00 Contrad Conner Representative 42.00.00 Order Adment Representative 42.00.00 Contrad Conner Representative 40.00.00 | | | |
| Capital Program Allocation 0.00 Resignation of the Owner's Representative cost center Procurement Director (14.400.00) Procurement Director (14.400.00) Procurement Director (14.400.00) Procurement Director (14.400.00) Bale Init Combined Sever Overflow (14.000.00) Commer Cost Commer | Expense Categories and Departmental Level | FY 2022 | |
| Owner, Proceedings 14 400.00 Proceeding 14 400.00 Proceeding 14 400.00 Proceeding 14 400.00 Proceeding 1000.00 Constructions 5000.00 Constructions 5000.00 Constructions 5000.00 Constructions 5000.00 Lab Constructions 5000.00 Vestower Laboratories 6200.00 Vestower Laboratories 6200.00 Vestower Laboratories 6200.00 Vestower Laboratories 6000.000 Vestower Laboratories 6000.000 Constructions 6000.000 Constructions 6000.000 Francial Maragement & Penning 6000.000 Francial Maragement & Penning 6000.000 Francial Maragement & Scotting (160.000.00 Francial Maragement & Penning | | | |
| Proceed (14.400.00) Bady Cack Continued Saver Overflow (12.500.00) Bady Cack Continued Saver Overflow (22.000.00) Accel Continued Saver Overflow (22.000.00) Accel Continued Saver Overflow (22.000.00) Accel Continued Saver Overflow (22.000.00) Contract Conter Control (22.000.00) Contract Control (22.000.00) Contract Conter Control (27.000.00) Control Control (27.000.00) Control Control (27.000.00) | | | Reorganization of the Owners' Representative cost center |
| Obsential 1474,00000 Applies for increase cost of chemicals and estimated usage in FY 2022 Balk Bark Constinued Sever Overflow 12.0000 Control Cost Constinued Sever Overflow 22.000.00 Valueswater Extractorisme 492.000.00 Valueswater Extractorisme 492.000.00 Control Cost Constinued Sever Overflow 23.000.00 Extra Of Directors 492.000.00 Contractual Server Constinued Sever Constinued Sever Overflow 23.000.00 Extra Of Directors 492.000.00 Contractual Server Constinued Sever Constrow Constract Sever Constro | | | |
| Bity Create Continued Sever Overflow (12,000,00) Denser Creak Continued Sever Overflow 284,000,00 Denser Creak Continued Sever Overflow 22,000,00 Outwork Source Continued Sever Overflow 22,000,00 Values Source Continued Sever Overflow 22,000,00 Values Source Continued Sever Overflow 22,000,00 Values Sever Continued Sever Overflow 22,000,00 Values Sever Continued Sever Overflow 22,000,00 Values Sever Continued Sever Overflow 22,000,000 Values Sever Continued Sever Continued Sever Continued Sever Sever Continued Sever Sever Continued Sever | | | |
| Conner Coeck Combined Sever Overflow 264 8000 Lab Combined Sever Overflow 23 9000 Description Sever Overflow 23 9000 Subscord Continued Sever Overflow 23 9000 Waterwater Secondary Process 47 2000 Subscord Continued Sever Overflow 638 8000 Contractual Service 980 9000 Based O Directors 800 9000 Financial Record Records 900 9000 Financial Records Office 70000 Financial Records Office 70000 Financial Records Office 70000 Financial Records Process 500 9000 Center Overflow 750000 General Coursel 100 00000 General Coursel 750000 Office of the CIO 745000 Procursers Preparadenase 750000 Office of the CIO 745000 Procurser Director 6000000 Financial Records Preparadenase 600000 Financial Records Preparadenase 750000 Office of the CIO 745000 Order and Preparadenase 70000 | | | , |
| ibde Soutified CSD 17 0000 Dailwood Combined Sever Overflow 23 200.00 Wastewert Development Phores 118 060.00 Wastewert Development Phores 118 060.00 Wastewert Development Phores 128 000.00 Wastewert Development Phores 138 000.00 Contractal Service 138 000.00 Based of Diacotary Phores 138 000.00 Chief Administrative Officer 130 00.00 Franzel Reporting & Accounting 100 00.00 Chief Administrative Officer 130 00.00 Franzel Reporting & Accounting 100 00.00 Chief Administrative Officer 108 00.00 Diacita and Margement (108 000.00 Diacita and Margement (108 000.00 Orscrift Representative 250 00.00 Procurrence Floring 62 00.000 Ower Agrees Representative 108 00.000 Procurrence Floring 62 00.000 Orscrift Representative 100 00.000 Procurrence Floring 62 00.000 Ower Agrees Representative 100 00.000 Procurence Floring 10 00.000 <td>Belle Isle Combined Sewer Overflow</td> <td>10,300.00</td> <td></td> | Belle Isle Combined Sewer Overflow | 10,300.00 | |
| Leib Carbins Sever Overflow 23000 Waskwerd Loudon Sever Overflow 32000 Waskwerd Loudon Sever Overflow 33000 Waskwerd Loudon Sever Overflow 33000 Waskwerd Loudon Sever Overflow 3000 Barel of Diverbors 600000 Barel of Diverbors 600000 Chef Administration Offer (3000) Chef | | , | |
| Outsource Caroline 3 Severity phroces 135.800.0 Wateward Laboratories 33.800.0 Wateward Laboratories 35.800.0 Contractantics 35.800.0 Contractantics 35.800.0 Double of the Contractantics 158.800.0 Contractantics 35.800.0 Contractantics 158.800.0 Francial Reporter 37.000.0 Francial Reporter 168.000.0 Contractantics 37.000.0 Contractant Representantics 30.000.0 Contractant Representantics 30.000.0 Contractant Representantics 40.700.0 Contractant Representan | | , | |
| Wastweeter Devocation Droces 11 8:00.00 Wastweeter Devolation Droces 53.500.00 Wastweeter Primary Process 477.200.00 Wastweeter Primary Process 477.200.00 Cantradia Services 500.000 Deard of Direction 300.000 Direct Administrative Officer 7.070.000 Primarial Management & Planning 50.000.00 Cantradia Reporting & Accounting (100.000.00 Financial Management & Planning 50.000.00 Office of Enterprise Asit Might Systema 200.000.00 Order of Might Systema 7.070.00 Procursment Direction 5.000.00 Order of Might Systema 7.070.00 Capital Improvement Planning 7.070.00 Capital Improvement Planning 6.000.00 Capital Improvement Planning 6.000.00 Office of Encerprise Proparadiase 6.000.00 Capital Improvement Planning 6.000.00 <t< td=""><td></td><td>,</td><td></td></t<> | | , | |
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| Wastewater Director (190,000.00) | | | |
| | | | |
| Wastewater Operations (700,000.00) Reduction in use of HVAC contract | | • • • | |

Supplemental Information Enterprise-wide Operations & Maintenance Account Type and Department Level Amendments

| Expense Categories and Departmental Level | Total 2nd Quarter FY 2022 | |
|---|---------------------------------|--|
| Amendments | | Explanation of Key Items |
| Wastewater Process Control | (360,400.00) | Deferral due to SCADA system support contract renewal which is currently being negotiated |
| Unallocated Reserve | (691,700.00) | |
| Administrative Services Unallocated Reserves | (783,300.00) | Primarily used to offset the amendment to the AECOM contract for the independent investigation into the June and July rain events. |
| Wastewater System Operations Unallocated Reserves | 153,300.00 | , |
| Centralized Services Unallocated Reserves | (61,700.00) | |
| Utilities | 42,900.00 | |
| Logistics and Materials | 42,900.00 | |
| Grand Total | 0 | |

Totals may be off due to rounding

Great Lakes Water Authority

Resolution 2022 -117 Resolution Adopting the Budget Amendments through the Second Quarter of FY 2022

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 2022 budget on March 24, 2021, for the twelvemonth fiscal year beginning July 1, 2021;
- **WHEREAS** Following a review of the budget amendment report through the FY 2022 Second 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;

| General Operating | | | | | | |
|---|----------------|---------------|----------------|---------------|--|--|
| Appropriation Category | Water | System | Sewer | Sewer System | | |
| Revenues | Adopted | Amended | Adopted | Amended | | |
| Suburban Wholesale Customer Charges | \$321,110,900 | \$318,710,900 | \$ 272,130,000 | \$266,730,000 | | |
| Retail Service Charges | 21,697,300 | No Change | 188,662,200 | No Change | | |
| Industrial Waste Control Charges | - | - | 9,024,800 | 8,324,800 | | |
| Pollutant Surcharges | - | - | 4,188,900 | No Change | | |
| Investment Earnings | 1,047,300 | 1,923,800 | 1,023,300 | 1,876,200 | | |
| Other Revenues | 175,000 | 291,000 | 400,000 | 490,000 | | |
| Total Revenues | \$344,030,500 | \$342,623,000 | \$ 475,429,200 | \$470,272,100 | | |
| Revenue Requirements | | | | | | |
| Operations & Maintenance Expense | \$ 143,933,800 | No Change | \$ 181,299,800 | No Change | | |
| General Retirement System Legacy Pension | 6,048,000 | No Change | 10,824,000 | No Change | | |
| Debt Service | 135,481,000 | 135,121,000 | 207,209,500 | 204,984,500 | | |
| General Retirement System Accelerated Pension | 6,268,300 | No Change | 11,620,700 | No Change | | |
| Extraordinary Repair & Replacement Deposit | - | No Change | - | No Change | | |
| Water Residential Assistance Program Contribution | 1,705,500 | No Change | 2,358,300 | No Change | | |
| Regional System Lease | 22,500,000 | No Change | 27,500,000 | No Change | | |
| DWSD Budget Shortfall Pending | - | No Change | - | No Change | | |
| Improvement & Extension Fund Transfer | 28,093,900 | 27,046,400 | 34,616,900 | 31,684,800 | | |
| Total Revenue Requirements | \$344,030,500 | \$342,623,000 | \$ 475,429,200 | \$470,272,100 | | |

WHEREAS Following a review of the budget amendment report through the FY 2022 Second 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;

| Debt Service Coverage Calculation Appropriation Category | Water | System | Sewer | System |
|---|----------------|---------------|----------------|---------------|
| Debt Service by Lien | Adopted | Amended | Adopted | Amended |
| Senior Lien Bonds | 124,309,700 | No Change | 133,195,700 | 130,820,700 |
| Second Lien Bonds | 46,840,400 | No Change | 51,893,000 | No Change |
| SRF Junior Lien Bonds | 6,695,100 | 6,335,100 | 53,921,600 | 54,071,600 |
| Total Debt Service | \$ 177,845,200 | \$177,485,200 | \$ 239,010,300 | \$236,785,300 |

WHEREAS Following a review of the budget amendment report through the FY 2022 Second 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;

| Improvement & Extension Fund | | | | | | | |
|--|----------------|----------------|---------------|---------------|--|--|--|
| Appropriation Category | Water | System | Sewer System | | | | |
| Revenues | Adopted | Amended | Adopted | Amended | | | |
| Transfers In from General Operating | \$ 28,093,900 | \$ 27,046,400 | \$ 34,616,900 | \$ 31,684,800 | | | |
| Receipt of DWSD Shortfall Loan | - | - | 406,400 | 144,900 | | | |
| Earnings on Investments | - | 1,329,000 | - | 1,004,900 | | | |
| Net Use of Reserves | 97,220,700 | 93,766,200 | 28,487,800 | 50,970,000 | | | |
| Total Revenues | \$ 125,314,600 | \$ 122,141,600 | \$ 63,511,100 | \$ 83,804,600 | | | |
| Expenditures | | | | | | | |
| Water/Sewer System Revenue Transfers Out | \$- | \$ 1,329,000 | \$- | \$ 1,004,900 | | | |
| Capital Spending - Other | - | 567,400 | - | 722,200 | | | |
| Capital Outlay | 17,006,600 | 13,975,800 | 15,965,100 | 17,345,900 | | | |
| Revenue Financed Capital - Opoerating | | | | | | | |
| Transfer to Construction Fund | 108,308,000 | 106,269,400 | 47,546,000 | 64,731,600 | | | |
| Total Expenditures | \$ 125,314,600 | \$ 122,141,600 | \$ 63,511,100 | \$ 83,804,600 | | | |

WHEREAS Following a review of the budget amendment report through the FY 2022 Second 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;

| Construction Fund Appropriation Category | Water | System | Sewer System | | | | |
|---|----------------|----------------|------------------|---------------|--|--|--|
| Revenues | Adopted | Amended | Adopted | Amended | | | |
| Transfer from Improvement & Extension Fund | \$ 108,308,000 | 106,269,400 | \$ 47,546,000 | 64,731,600 | | | |
| Bond Proceeds | - | No Change | - | No Change | | | |
| Grant Revenues (SRF Loans) | 26,100,000 | 36,527,000 | 31,992,000 | 14,149,000 | | | |
| Earnings on Investments | - | No Change | - | No Change | | | |
| Net Use of Reserves | - | 772,700 | - | 3,108,200 | | | |
| Total Revenues | \$ 134,408,000 | \$ 143,569,100 | \$ 79,538,000 | \$ 81,988,800 | | | |
| Expenditures | | | | | | | |
| Project Expenditures | \$ 134,408,000 | 143,569,100 | \$ 79,538,000 | 81,988,800 | | | |
| Total Expenditures | \$134,408,000 | \$ 143,569,100 | \$ 79,538,000 | \$ 81,988,800 | | | |
| Capital Spending Ratio | 75.0% | 80.4% | 75.0% | 78.09 | | | |

- **WHEREAS** The GLWA Audit Committee reviewed the budget amendments at its meetings on March 25, 2022; 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 2022 Second Quarter Budget Amendments; and be it finally
- **RESOLVED** That the Interim 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.

..Title

Proposed FY 2022 Second Quarter Budget Amendments

..Body

- Agenda of:
 April 27, 2022

 Item No.:
 2022-117

 Amount:
 N/A
- TO: The Honorable Board of Directors Great Lakes Water Authority
- FROM: Suzanne R. Coffey, P.E. Interim Chief Executive Officer Great Lakes Water Authority
- **DATE:** April 27, 2022

RE: Proposed FY 2022 Second 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 **Proposed FY 2022 Second Quarter Budget Amendments as presented**; and authorizes the Interim 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 March 25, 2022, which presents the proposed budget amendments for the second quarter of FY 2022. The reports included in this communication include the following.

- 1. Quarterly Budget Amendment Report for FY 2022 ending December 31, 2021.
- Resolution Adopting the Budget Amendments through the Second Quarter of FY 2022.

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 March 25, 2022. The Audit Committee *[insert action]* that the Board of Directors for the Great Lakes Water Authority adopt the proposed FY 2022 second quarter budget amendments.

SHARED SERVICES IMPACT

The impact of the second quarter FY 2022 budget amendments is an increase of \$153,300 to OPS-008 – Systems Control Center, Detroit Only Pump Stations/CSO.



Financial Services Audit Committee Communication

Date: March 25, 2022

To: Great Lakes Water Authority Audit Committee

From: Nicolette N. Bateson, CPA, Chief Financial Officer & Treasurer

Re: Calendar Year 2022 Financing Team Selection

Background: In order to fund the capital improvement program, the current long-term financial plan contemplates a bond transaction by the end of the current fiscal year. A key next step in that process is assembling a financing team. The team includes the financial advisor, bond counsel, and feasibility consultant. Those roles are currently under contract. The open decision is related to the underwriting syndicate, including the book running senior manager.

The Great Lakes Water Authority <u>Debt Management Policy</u> (page 5) provides the following guidance related to the selection of the senior manager.

Underwriter Selection

Senior Manager Selection. GLWA will select the senior manager for a proposed negotiated sale. The selection criteria will include, but not be limited to, the following:

- The firm's ability and experience in managing complex transactions
- Prior knowledge and experience with GLWA, if applicable
- The firm's willingness to risk capital and demonstration of such risk
- Quality and experience of personnel assigned to GLWA's engagement
- Financing plan presented
- Underwriting fees

Co-Manager Selection. Co-managers will be selected on the same basis as the senior manager. In addition to their qualifications, co-managers appointed to specific transactions will be a function of transaction size and the necessity to ensure maximum distribution of GLWA's bonds.

Selling Groups. GLWA may establish selling groups in certain transactions in order to broaden the reach to potential investors.

GLWA has had three financing programs since its inception on January 1, 2016. The underwriter pool has consisted of the following firms.

| Role | Sewage Disposal System Revenue Refunding Bonds 2016 (B&C) (\$421,295,000) | Sewage Disposal System Revenue & Refunding Bonds 2018 (A,B,C) (\$257,465,000) | Sewage Disposal System Revenue Refunding Bonds 2020 (A&B) (\$687,455,000) |
|--------------------------------|---|---|---|
| Book Running Senior Manager | Citigroup | Citigroup | Citigroup |
| | Goldman Sachs and | Wells Fargo | Siebert Williams |
| Co-Senior Manager | Co. LLC | Securities | Shank & Co., LLC |
| | | Goldman Sachs and | |
| Co-Managers | | Co. LLC | Goldman Sachs |
| | J.P. Morgan | J.P. Morgan | J.P. Morgan |
| | Morgan Stanley | Morgan Stanley | Morgan Stanley |
| | Ramirez & Co., Inc | Ramirez & Co., Inc | Ramirez & Co., Inc |
| | Siebert Williams | Siebert Cisneros | |
| | Shank & Co., LLC | Shank & Co., LLC | |
| | | | Wells Fargo |
| | Wells Fargo Securities | | Securities |

Analysis: Given the changing market conditions, the GLWA administration would like to proceed with the proposed bond transaction sooner rather than later. While it is good to "refresh" the underwriter pool periodically, the timing, along with competing priorities, dictates that we assemble the team to being working on the transaction soon.

A few considerations as we proceed.

- 1. GLWA administration meets with the firms listed above on a regular basis. That pool reflects excellence in the field of public sector utility finance who are very interested in continuing to work with GLWA.
- 2. In prior conversations with the Board, there was a strong preference to rotate the "bookrunning senior manager" role. Citigroup has held that role for the last three transactions. Accordingly, it is recommended that Citigroup be asked to participate as a co-manager in the next financing so that GLWA can meet the Board's rotational objective among the underwriting firms.
- 3. That being said, continuity and experience as a co-manager are incredibly important to GLWA in a successor in the bookrunning senior manager role. It is therefore recommended that Goldman Sachs and Co. LLC, Siebert Williams Shank & Co., LLC and Wells Fargo Securities, who have all served as co-managers, be invited to a) submit proposals to GLWA for the bookrunning senior manager role as well as b) prepare a 10-minute presentation based on that proposal to present to the Audit Committee at its regular meeting on April 22, 2022. Based on the proposals submitted and the presentation, it is recommended that the Audit Committee make a recommendation to the Board of Directors for the May 11, 2022 Board meeting for Book Running

Senior Manager and Co-Senior Manager. The proposals should include the fee structure.

- 4. All firms that have served on the financing team in the past would be invited to submit letters of interest to serve as co-managers for the 2022 transaction.
- 5. Within 12 months after the close of the 2022 transaction, GLWA will solicit proposals to refresh the pool. It is anticipated that the vacant Public Finance Manager role will be filled by then (this position has been vacant since April 2021; an active recruitment process has been underway).

Recommendation: It is recommended that the Audit Committee adopt the approach outlined above for the selection of the Book Running Senior Manager and Co-Senior Manager for the 2022 bond transaction and authorize staff to proceed with soliciting the proposals and presentations.

AGENDA ITEM #8A



Financial Services Audit Committee Communication

Date: March 25, 2022

To: Great Lakes Water Authority Audit Committee

From: Nicolette N. Bateson, CPA, Chief Financial Officer & Treasurer

Re: CFO Update

External Auditor Proposals Due Monday, March 28, 2022

Attached is an outline of talking points from Joan Salwasser, Procurement Management Professional who is supporting the Audit Committee with the selection process. Joan will cover a few points at today's meeting as well as follow-up with you individually.

Moody's Credit Opinion - Great Lakes Water Authority, March 23, 2022

This week, Moody's completed a surveillance credit review of the Great Lakes Water Authority. The report is included in the Communications section of this binder.

Key Introductory Comments

- ✓ Water and sewer enterprises have solid credit profiles, bolstered by very large service areas and a sizable scale of operations.
- ✓ GLWA has effectively balanced its hefty capital needs with an affordable rate structure, stable operating performance, consistent debt service coverage and good liquidity for both systems since its inception in 2016.
- ✓ The systems have above-average leverage, however, and the City of Detroit (Ba2 positive) makes up a significant portion of their service area.

Credit strengths

» Very large utility systems, providing essential water and wastewater services to a substantial portion of the state's population

» Commitment to annual revenue enhancements to support sound debt service coverage and healthy liquidity

» Track record of strong budget management and good transparency

Credit challenges

» Declining water usage trends

» High leverage will moderate slowly given outstanding capital needs and plans to issue additional debt

» Increasing occurrence of extreme wet weather events placing strain on stormwater and sewer treatment capacity in certain segments of the system

Rating outlook

The outlook is stable because each system will sustain sound financial metrics given GLWA's track record of strong budget management and ability to raise rates. These strengths will continue to mitigate the challenges associated with high leverage and capital needs.

Factors that could lead to an upgrade

- » Sustained expansion and diversification of the service area's economic base
- » Growth in revenue that continues to outpace borrowing so as to moderate leverage of pledged resources

Factors that could lead to a downgrade

» Renewed economic stress that pressures consumption and revenue trends

» Material reduction to the water or sewer system's liquidity or debt service coverage ratios

» Growth in leverage of the water or sewer system's net revenue

Bond Insurer Assured Guaranty Municipal Corporation Receives Rating Upgrade

As of March 18, 2022, Moody's released a Bond Insurer/Liquidity Provider rating change for Assured Guaranty Municipal Corporation (AGM). Moody's upgraded the financial strength rating of AGM from A2 to A1. AGM provides bond insurance and reserve fund sureties for certain GLWA debt. GLWA will be issuing a continuing disclosure statement to communicate this change as required by SEC Rule 15c2-12.

March is Procurement Month

Procurement Month is dedicated to honoring the unique role of public procurement professionals and expanding awareness of the vital work that they perform every day for their organizations and for the public. At GLWA, Procurement Month offers us the opportunity to acknowledge our own outstanding Procurement Team who procure the goods and services that support GLWA's mission of providing water of unquestionable quality to the southeastern Michigan communities that we serve. Dedicated and serviceoriented, the GLWA Procurement Team provides the best possible information to its internal business partners as well as creates a productive and transparent environment for qualified vendors with open and fair access to GLWA opportunities.

This month's Audit Committee binder includes the Annual Procurement Report which is a testament to the volume of work that this team produces with their crossfunctional partners across GLWA. We are also proud of our team members who are regular speakers at procurement and vendor events. Finally, it is important to note the leadership roles that GLWA Procurement team members have assumed in their field including Ms. Tina Clinkscales, CPPO, CPPB, who is presently the President for the Public Purchasing Officers Michigan Association. Thank you, Tina!



PRE-SCORING EVALUATION TEAM MEETING

Contract No. 2104125

External Auditor Services

Date:Friday, 3-25-22; 8:00 a.m.Location:Audit Committee Meeting

AGENDA

- 1. The Procurement staff member responsible for the Procurement activities associated with this project is Joan Salwasser.
- 2. Thank you for your participation. Your time and efforts are greatly appreciated!
- 3. The following information is to provide Evaluators with information pertaining to project including the current status, next steps, and to advise/review key dates.
- 4. Discussion Parameters:
 - a. As a gentle reminder, discussions pertaining to this project must remain between Evaluators, Procurement and Advisors.
 - b. Please refer any vendor inquiries pertaining to this project to Procurement.
- 5. Current status:
 - a. Proposals are due Monday, 3-28-22 at noon.
 - b. At 12:01 p.m. vendors will no longer be able to upload any documents as the bidding period will be officially closed.
- 6. Next steps:
 - a. Vendors will submit proposals.
 - b. Immediately following the bid close, Procurement will go into Bonfire, and release the proposals to the Evaluation Team/Advisors/Observers.
- 7. Bonfire: The contracting platform that GLWA uses which includes the solicitation and evaluation process.
 - a. Evaluators, Advisors and Observers should have received an invitation from Bonfire to register. Anyone who hasn't received it, please let me know.
 - b. At the invitation stage, Evaluators will be asked to register if they haven't already done so. It's a relatively short process but again, reach out to me if you need assistance.
 - c. Following registration and in order to view proposals received, Bonfire will require each Evaluator/Advisor/Observer to sign a Conflict-of-Interest form.
 - d. Once registration is complete and the Conflict-of-Interest form is signed, the Evaluator/Advisor/Observer will be able to view all of the public solicitation files as well as the proposals.

- 8. Key Points on Scoring:
 - a. It is acceptable for Evaluators to have discussion with other Evaluators and Advisers if needed.
 - b. It is not a requirement that all Evaluators' scores are identical.
 - c. What is necessary is that evaluators collectively agree on the most qualified source.
- 9. Key Dates:

| a. | 3-28-22; 12:00 p.m. | Proposals due |
|----|-------------------------|--|
| b. | 4-4-22; End of Business | Evaluations complete |
| c. | 4-14-22; Time TBD | Vendor presentations |
| d. | 4-22-22; Time TBD | Audit Committee recommendation finalized |
| e. | 5-11-22 | Tentative Board award of contract |
| f. | 5-25-22 | Alternate date for Board award of contract |
| | | |

QUESTIONS?

*Note: Procurement remains available to assist Evaluators/Advisors/Observers and Stakeholders throughout the entire Procurement process (evaluation, vendor presentation and award recommendation).





Monthly Financial Report Binder

December 2021

Presented to the Great Lakes Water Authority Audit Committee on March 25, 2022

TABLE OF CONTENTS

| Executive Summary Dashboard | 1 |
|---|-----|
| Budget to Actual Analysis | 3 |
| Basic Financial Statements | 9 |
| Financial Activity Charts | 17 |
| Financial Operations Key Performance Indicators | 20 |
| Bank Reconciliations | 20 |
| Liquidity | 21 |
| Budget to Financial Statements Crosswalk | 23 |
| Capital Improvement Plan Financial Summary | |
| Master Bond Ordinance Transfers | |
| Cash and Investment | |
| Retail Revenues, Receivables, & Collections | |
| Wholesale Billings, Receivables, & Collections | |
| Trust Receipts and Disbursements | |
| Appendix | |
| Aged Accounts Receivable Report | A-1 |
| Highland Park Life-to-Date Billings & Collections | B-1 |



Key Financial Metrics

1

The table below provides key report highlights and flags the financial risk of a budget shortfall by year-end as follows:

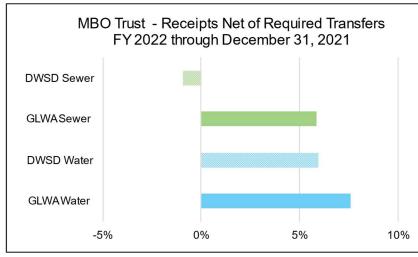
No Risk (green) - Potential (yellow) - Likely (red)

Each variance is monitored by the Great Lakes Water Authority (GLWA) management and, where appropriate, operating and/or budget priorities are re-evaluated. Budget amendments are prepared and presented quarterly based on most current information. To address the wholesale water revenue shortfall, a first quarter budget amendment was approved for \$2.4 million.

| As of December 31, 2021 | | | | | | | | | | | |
|--|--|-----------|-------------------|---------------------------------|-----------------------------|--|--|--|--|--|--|
| Metric | FY 2022 FY 2022 Budget Budget | | FY 2022 Actual | Variance from Financial Plan | Report Page Reference | | | | | | |
| Wholesale Water Billed Revenue (\$M) | \$170.9 | \$168.5 | \$166.6 | -1% | 47 | | | | | | |
| Wholesale Water Billed Usage (mcf) | 7,406,000 | 7,186,000 | 6,995,000 | -3% | 47 | | | | | | |
| Wholesale Sewer Billed Revenue (\$M) | \$135.7 | \$135.7 | \$135.7 | 0% | 49 | | | | | | |
| Wholesale Water Operations & Maintenance (\$M) | \$72.0 | \$72.0 | \$67.1 | -7% | 5 | | | | | | |
| Wholesale Sewer Operations & Maintenance (\$M) | \$90.7 | \$90.7 | \$89.6 | -1% | 5 | | | | | | |
| Investment Income (\$M) | \$1.5 | \$1.5 | \$1.9 | 27% | 37 | | | | | | |
| Water Prorated Capital Spend w/SRA* (\$M) | \$90.0 | \$67.5 | \$84.2 | 25% | 28 | | | | | | |
| Sewer Prorated Capital Spend w/SRA* (\$M) | \$53.0 | \$40.5 | \$32.1 | -21% | 29 | | | | | | |

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

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



Net cash flow receipts remain positive for GLWA Water and Sewer. This means that all legal commitments of the MBO Trust and the lease payment are fully funded and that positive cash flow is available for additional capital program funding in subsequent year(s). DWSD Water reports a surplus of \$2.9 million and

DWSD Sewer reports a \$1.4 million shortfall of net receipts over disbursements through December 2021. On August 26, 2021, the DWSD Board of Water Commissioners proactively adopted budget amendments to address potential shortfalls for FY 2022. These budget amendments are reflected in this December 2021 report. DWSD continues to monitor these balances and anticipates improved monthly receipts supplemented by tax lien collections will resolve the current Sewer shortfall before yearend.

The current DWSD loan receivable balance for fiscal year 2018 is \$4.2 million.



2

Budget to Actual Analysis (page 3)

- FY 2022 information includes the first quarter budget amendments which were approved by the GLWA Board on December 8, 2021. The information does not include the proposed second quarter budget amendments.
- The total Revenue Requirements are on target through December 2021.
- The total Operations & Maintenance expenses are at 48.2% of budget through December 2021.

Basic Financial Statements (page 9)

- The Basic Financial Statements are prepared on a full accrual basis and reflect preliminary, unaudited results.
- Operating income for December 2021 is \$45.5 million for the Water fund (25.7% of total revenues) and \$68.3 million for the Sewer fund (28.8 % of total revenues).
- Water Net Position increased by \$2.9 million, and Sewage Disposal Net Position increased by \$10.0 million for the year to date through December 2021.

Capital Improvement Plan Financial Summary (page 27)

- Water systems exceed the 75% Capital Spend Ratio assumption.
- Sewer systems also exceed the 75% Capital Spend Ratio assumption.

Master Bond Ordinance Transfers (page 30)

- For December, transfers of \$13.6 million and \$17.6 million were completed for the GLWA Water and Sewer funds, respectively.
- Also for December, transfers of \$3.2 million and \$7.4 million were completed for the DWSD Water and Sewer funds, respectively.

Cash Balances & Investment Income (page 36)

- Total cash & investments are \$439 million in the Water fund and \$446 million in the Sewer fund.
- Total, combined, cumulative, FY 2022 investment income through December is \$1.9 million.

DWSD Retail Revenues, Receivables & Collections (page 41)

- Water usage through December 31, 2021 is at 108.38% and revenues at 100.08% of budget.
- Sewer usage through December 31, 2021 is at 103.59% and revenues at 99.82% of budget.
- Combined accounts receivable balances for the water and sewer funds report an increase of \$44.0 million over the prior year.
- Past dues over 180 days make up 65.9% of the total accounts receivable balance. The current bad debt allowance covers 101.6% of past dues over 60 days.

GLWA Wholesale Billing, Receivables & Collections (page 46)

- GLWA accounts receivable past due balance net of Highland Park is 8.15% of the total accounts receivable balance, with the majority of that balance related to one water account dispute currently under discussion.
- The Highland Park past due balance is \$51.9 million. It includes \$39.7 million for wastewater treatment services, \$1.8 million for industrial waste control services, and \$10.4 million for water supply services. Highland Park has not made a payment in FY 2022 through December 2021.

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



The Monthly Budget to Actual Analysis report includes the following three sections.

- 1. Revenue Requirement Budget Basis Analysis
- 2. Operations & Maintenance Budget Major Budget Categories
- 3. Alignment of Operations & Maintenance Budget Priorities Expense Variance Analysis

The FY 2022 information presented in these sections includes the first quarter budget amendments approved by the GLWA Board on December 8, 2021, but not the proposed second quarter budget amendments.

Revenue Requirement Budget Basis Analysis

GLWA's annual revenue requirement represents the basis for calculating Member Partner charges and aligns with the Master Bond Ordinance flow of funds categories. The budget basis is not the same as the full accrual basis used for financial reporting although the revenues and operations and maintenance expense are largely reported on an accrual basis. The primary difference between the revenue requirement budget basis to the financial reporting basis is the treatment of debt service, legacy pension obligations, and lease related activities. The Revenue Requirement Basis is foundational to GLWA's daily operations, financial plan, and of most interest to key stakeholders.

Table 1A – <u>Water</u> Revenue Requirement Budget and **Table 1B – <u>Sewer</u> Revenue Requirement Budget** presents a year-over-year budget to actual performance report. The revenue requirement budget is accounted for in the operations and maintenance fund for each system. Since this report is for December 2021, the pro-rata benchmark is 50.0% (6 of 12 months of the fiscal year).

Items noted below are highlighted in gold on Tables 1A (Water) and 1B (Sewer).

1. **Revenues**: For *both* systems, FY 2022 revenues are either at or above target. Detailed schedules related to revenues are provided in the *Wholesale Billings, Collections, and Receivables* section of this financial report binder.

Water revenues presented in Table 1A differ from those presented in *Table 2 – Statement of Revenues, Expenses and Changes in Net Position* found in the *Basic Financial Statement* section of this report. Water Revenues presented in Table 1A for revenue requirement purposes are reduced by the monthly payment to the City of Flint for a license to raw water rights under the Flint Raw Water Contract as documented in Appendix A-2 of the <u>Flint Water Agreement</u>. Through December 31, 2021, these payments total \$3.3 million for FY 2022.

2. *Investment Earnings:* For *both* systems, investment earnings are above the prorata benchmark for FY 2022; the *water* system is at 68.3%; while the *sewer* system is at 54.9%. Detailed analysis of investment earnings activity to date can be found in the *Cash & Investment Income* section of this financial report binder.



- 3. **Other Revenues:** These are one-time and unusual items that do not fit an established revenue category. Both the *water* and *sewer* systems actual amount will vary from budget due to the nature of the items recorded in this category.
- 4. **Operations & Maintenance Expense:** Actual expenses¹ for *both* systems have variances from the pro-rata benchmark. The *water* system is less than the pro-rata benchmark for FY 2022 at 46.6%. The *sewer* system O&M expenses, at 49.4%, is slightly under the pro-rata benchmark.
- 5. **Debt Service:** For both systems, debt service is on target with the pro-rata benchmark for FY 2022; the *water* system is at 50.2%; while the *sewer* system is at 50.6%. The activity is based on the payment schedules adjusted for the State Revolving Fund loans that are still being drawn down.
- 6. **Operating Reserve Deposit:** GLWA has established a target balance in the O&M Fund of 45 days of operating expense which works in tandem with the I&E Funds to provide liquidity to the utility. Adequate funding is in place to meet this requirement; therefore, it is expected that additional transfers to this reserve will not be required in FY 2022.
- 7. DWSD Budget Shortfall Pending: To the extent that the local (DWSD) system experiences budgetary shortfalls as defined by the Water & Sewer Services Agreement, the GLWA budget is impacted.² Steps to proactively detect, and ideally prevent, this shortfall scenario were put into place with the 2018 Memorandum of Understanding (dated June 27, 2018). For FY 2021, DWSD management successfully implemented a formal plan to end the year with positive net cash flows for both the DWSD water system and the DWSD sewer system. For FY 2022, the DWSD water system does not have a budgetary shortfall and the DWSD sewer system has a budgetary shortfall of \$1.4 million through December 31, 2021. GLWA and DWSD staff are meeting regularly to discuss steps to mitigate this shortfall as outlined in the 2018 MOU.
- 8. *Improvement & Extension (I&E) Fund Transfer Pending:* The contribution to the I&E Fund is for improvements, enlargements, extensions, or betterment of the Water System.
- 9. *Other Revenue Requirements:* The remaining revenue requirements for *both* systems are funded on a 1/12th basis each month in accordance with the Master Bond Ordinance.
- 10. **Overall:** Total revenue requirements for *both* systems are in line with the benchmark.

¹The tables in this analysis reflect actual amounts spent. If this analysis was on a master bond ordinance (MBO) basis, like that used for calculating debt service coverage, O&M "expense" would equal the prorata budget because 1/12 of the O&M budget is transferred monthly outside the MBO trust to an O&M bank account.

² As a reminder, the monthly O&M transfer for MBO purposes is at 1/12 of the budget to a DWSD O&M bank account outside the trust. Actual budget may be less than that amount providing an actual positive variance for DWSD.



Table 1A – <u>Water</u> Revenue Requirement Budget (year-over-year) – (\$000)

| | | | | | | | | | ,, | ۲, | | | |
|---|-----------------------------|---------|---|---------|-----------------------------|----|---------------------------------------|----|------------------------------|----------|---|-----------------------------|--|
| Water System | FY2021 AMENDED BUDGET | | FY 2021 ACTIVITY THRU 12/31/2020 | | Percent Year-to- Date | | FY 2022 BOARD ADOPTED BUDGET | | FY 2022 AMENDED BUDGET | | FY 2022 ACTIVITY THRU 12/31/2021 | Percent Year-to- Date | |
| Revenues | | | | | | | | | | | | | |
| Suburban Wholesale Customer Charges | \$ | 317,034 | \$ | 163,824 | 51.7% | \$ | 321,111 | \$ | 318,711 | \$ | 162,993 | 51.1% | |
| Retail Service Charges | | 21,926 | | 11,094 | 50.6% | | 21,697 | | 21,697 | | 10,849 | 50.0% | |
| Investment Earnings | | 3,956 | | 2,514 | 63.5% | | 1,047 | | 1,547 | | 1,057 | 68.3% | |
| Other Revenues | | 229 | | 160 | 70.0% | | 175 | | 175 | | 247 | 141.1% | |
| Total Revenues | \$ | 343,144 | \$ | 177,592 | 51.8% | \$ | 344,031 | \$ | 342,131 | \$ | 175,145 | 51.2% | |
| Revenue Requirements | - | | | | | | | | | | | | |
| Operations & Maintenance Expense | \$ | 134,127 | \$ | 64,554 | 48.1% | \$ | 143,934 | \$ | 143,934 | \$ | 67,115 | 46.6% | |
| General Retirement System Legacy | | | | | | | | | | | | | |
| Pension | | 6,048 | | 3,024 | 50.0% | | 6,048 | | 6,048 | | 3,024 | 50.0% | |
| Debt Service | | 137,436 | | 69,784 | 50.8% | | 135,481 | | 135,121 | | 67,854 | 50.2% | |
| General Retirement System Accelerated | | | | | | | | | | | | | |
| Pension | | 6,268 | | 3,134 | 50.0% | | 6,268 | | 6,268 | | 3,134 | 50.0% | |
| Extraordinary Repair & Replacement Deposit | | | | | 0.0% | | | | | | | 0.0% | |
| Water Residential Assistance Program | | - | | - | 0.070 | | - | | - | | - | 0.070 | |
| Contribution | | 1.669 | | 835 | 50.0% | | 1.706 | | 1.706 | | 853 | 50.0% | |
| Regional System Lease | | 22,500 | | 11,250 | 50.0% | | 22,500 | | 22,500 | | 11,250 | 50.0% | |
| Operating Reserve Deposit | | - | | - | 0.0% | | - | | | | - | 0.0% | |
| DWSD Budget Shortfall Pending | | - | | - | 0.0% | | _ | | - | | - | 0.0% | |
| Improvement & Extension Fund | | | | | 0.070 | | | | | | | 0.070 | |
| Transfer Pending | | 35,095 | | 14,140 | 40.3% | | 28,094 | | 26,554 | | 13,699 | 51.6% | |
| Total Revenue Requirements | \$ | 343,144 | \$ | 166,721 | 48.6% | \$ | 344,031 | \$ | 342,131 | \$ | 166,929 | 48.8% | |
| Net Difference | | | \$ | 10,871 | | | | | | \$ | 8,217 | | |
| Recap of Net Positive Variance | | | | | | | | | | | | | |
| Revenue Variance | | | \$ | 6,020 | | | | | | \$ | 4,080 | | |
| Revenue Requirement Variance | | | | 4,851 | | | | | | | 4,137 | | |
| Overall Variance | | | \$ | 10,871 | | | | | | \$ | 8,217 | | |
| | | | | -, | | | | | | <u> </u> | -, | | |

Table 1B – <u>Sewer</u> Revenue Requirement Budget (year-over-year) – (\$000)

| | FY | 2021 | | FY 2021 ACTIVITY | Percent | | FY 2022 BOARD | | FY 2022 | | FY 2022 ACTIVITY | Percent |
|---------------------------------------|-----|---------|----|---------------------|----------|----|------------------|----|---------|----|---------------------|----------|
| | | NDED | | THRU | Year-to- | 4 | DOPTED | A | MENDED | - | THRU | Year-to- |
| Sewer System | BUD | DGET | 1 | 2/31/2020 | Date | | BUDGET | | BUDGET | 1 | 2/31/2021 | Date |
| Revenues | | | | | | | | | | | | |
| Suburban Wholesale Customer Charges | \$ | 272,454 | \$ | 134,310 | 49.3% | \$ | 272,130 | \$ | 269,130 | \$ | 136,135 | 50.6% |
| Retail Service Charges | | 187,960 | | 94,428 | 50.2% | | 188,662 | | 188,662 | | 94,331 | 50.0% |
| Industrial Waste Control Charges | | 7,685 | | 3,943 | 51.3% | | 9,025 | | 9,025 | | 4,159 | 46.1% |
| Pollutant Surcharges | | 6,108 | | 3,225 | 52.8% | | 4,189 | | 4,189 | | 2,627 | 62.7% |
| Investment Earnings | | 2,778 | | 1,631 | 58.7% | | 1,023 | | 1,523 | | 836 | 54.9% |
| Other Revenues | | 2,195 | | 296 | 13.5% | | 400 | | 400 | | 288 | 71.9% |
| Total Revenues | \$ | 479,179 | \$ | 237,833 | 49.6% | \$ | 475,429 | \$ | 472,929 | \$ | 238,376 | 50.4% |
| Revenue Requirements | | | | | | | | | | | | |
| Operations & Maintenance Expense | \$ | 182,296 | \$ | 84,038 | 46.1% | \$ | 181,300 | \$ | 181,300 | \$ | 89,629 | 49.4% |
| General Retirement System Legacy | | | | | | | | | | | | |
| Pension | | 10,824 | | 5,412 | 50.0% | | 10,824 | | 10,824 | | 5,412 | 50.0% |
| Debt Service | | 201,780 | | 102,957 | 51.0% | | 207,210 | | 204,985 | | 103,656 | 50.6% |
| General Retirement System Accelerated | | | | | | | | | | | | |
| Pension | | 11,621 | | 5,810 | 50.0% | | 11,621 | | 11,621 | | 5,810 | 50.0% |
| Extraordinary Repair & Replacement | | | | | | | | | | | | |
| Deposit | | - | | - | 0.0% | | - | | - | | - | 0.0% |
| Water Residential Assistance Program | | | | | | | | | | | | |
| Contribution | | 2,415 | | 1,208 | 50.0% | | 2,358 | | 2,358 | | 1,179 | 50.0% |
| Regional System Lease | | 27,500 | | 13,750 | 50.0% | | 27,500 | | 27,500 | | 13,750 | 50.0% |
| Operating Reserve Deposit | | - | | - | 0.0% | | - | | - | | - | 0.0% |
| DWSD Budget Shortfall Pending | | - | | 275 | 0.0% | | - | | - | | 1,358 | 0.0% |
| Improvement & Extension Fund | | | | | | | | | | | | |
| Transfer Pending | | 42,743 | | 20,103 | 47.0% | | 34,617 | | 34,342 | | 16,749 | 48.8% |
| Total Revenue Requirements | \$ | 479,179 | \$ | 233,553 | 48.7% | \$ | 475,429 | \$ | 472,929 | \$ | 237,545 | 50.2% |
| Net Difference | | | \$ | 4,280 | | | | | | \$ | 832 | |
| Recap of Net Positive Variance | | | | | | | | | | | | |
| Revenue Variance | | | \$ | (1,757) | | | | | | \$ | 1,912 | |
| Revenue Requirement Variance | | | | 6,037 | | | | | | | (1,080) | |
| Overall Variance | | | \$ | 4,280 | | | | | | \$ | 832 | |



6

Operations & Maintenance Budget – Major Budget Categories

The year-over-year benchmark ratio as of December 31, 2021, is 50.0% (six months). When comparing FY 2022 to FY 2021 in *Table 2 – Operations & Maintenance Budget – Major Budget Categories*, it appears that overall spending is consistent.

In addition to the four major budget categories, an internal charge cost center for employee benefits is shown in the table below. If the number is positive, it indicates that the internal cost allocation rate charges to other cost centers is not sufficient. A negative number indicates a surplus in the internal cost center. A moderate surplus is preferred as it provides a hedge for mid-year benefit program cost adjustments (premiums adjust on January 1 each year) as well as managing risk as the program is partially self-insured.

Table 2 – Operations & Maintenance Budget – Major Budget Categories – (\$000)

| | | · | - | | | - | | | 3 | - J | | (+ / |
|-------------------|----|-------------------|----|----------------------------|---------------------|----|----------------------------|----|-------------------|-----|-----------------------------|---------------------|
| Major Budget | | FY 2021 MENDED | ļ | FY 2021 CTIVITY THRU | Percent Year-to- | | FY 2022 BOARD DOPTED | A | FY 2022 MENDED | 4 | FY 2022 ACTIVITY THRU | Percent Year-to- |
| Categories | E | BUDGET | 1 | 2/31/2020 | Date | | BUDGET | | BUDGET | 1 | 2/31/2021 | Date |
| Water | \$ | 70,820 | \$ | 36,219 | 51.1% | \$ | 74,813 | \$ | 74,813 | \$ | 38,647 | 51.7% |
| Sewer | | 114,975 | | 52,850 | 46.0% | | 111,971 | | 111,971 | | 56,535 | 50.5% |
| Centralized | | 100,339 | | 45,687 | 45.5% | | 103,846 | | 103,846 | | 45,845 | 6 44.1% |
| Administrative | | 30,290 | | 13,713 | 45.3% | | 34,603 | | 34,603 | | 15,718 | 45.4% |
| Employee Benefits | | - | | 123 | 0.0% | | - | | - | | - | 0.0% |
| Total O&M Budget | \$ | 316,424 | \$ | 148,592 | 47.0% | \$ | 325,234 | \$ | 325,234 | \$ | 156,744 | 48.2% |

Totals may be off due to rounding

Alignment of Operations & Maintenance Budget Priorities – Expense Variance Analysis

The purpose of **Table 3 – Operations & Maintenance Expense Variance Analysis** is to evaluate whether the actual spend rate within a natural cost category is in alignment with the budget. Given the effort to develop an accurate budget, a variance is a red flag of a *potential* budget amendment or misalignment of priorities.

Total: In total, the O&M expenses are at 48.2% which is reasonably within the pro-rata benchmark of 50.0%. This positive variance equates to a dollar amount of \$5.9 million. The expense category commentary is provided below for items highlighted on Table 3.

Personnel Costs: The overall category is slightly under the pro-rata benchmark; coming in at 48.0% through December 2021.



Utilities: The overall category is higher than the pro-rata benchmark; coming in at 55.4% through December 2021. Variances within this category, when they occur, are not unexpected as usage varies throughout the year.

- **Electric** is higher than the pro-rata benchmark, coming in at 56.3%. The first three months of GLWA's fiscal year (July, August, and September) are typically peak months for the usage of electricity. June, the last month of GLWA's fiscal year, is typically a peak month as well.
- **Gas** is coming in at 55.8% which is higher than the benchmark of 50.0%. Variances within this category are not unexpected as usage is variable throughout the year.
- **Sewage service** is higher than the benchmark, coming in at 61.5%. Bills for a meter for a large line at the WRRF, which previously had been estimated, are now being received for actual readings.
- **Water service** is lower than the benchmark, coming in at 38.8%. Usage of this account varies throughout the year. A review of this category is being conducted.

Chemicals: This category is higher than the pro-rate benchmark; coming in at 58.5% through December 2021. While variances within this category are not unexpected as usage varies throughout the year, the increase in chemical costs is the primary driver for this variance.

Supplies & Other: This category is lower than the benchmark; coming in at 35.1% through December 2021. Given that the nature of the items in this category are subject to one-time expenses that do not occur evenly throughout the year, variances are not unexpected. A review of this category is being conducted.

Contractual Services: The overall category is slightly higher than the pro-rata benchmark; coming in at 51.2% through December 2021. Variances in this category, when they occur, are not unexpected as the usage of contracts varies throughout the year (projects scheduled to begin during the latter half of the year as well as contracts that are on an as needed basis). Budget amendments will be processed for those projects in which the actual start dates have been delayed from that in which they were budgeted.

Capital Program Allocation: This category is lower than the benchmark; coming in at 40.0% through December 2021. The amount in the Capital Program Allocation account is shown as negative as this is a "contra" account which represents an offset to the Personnel Costs section of the Operations & Maintenance (O&M) budget.



Shared Services: This category is on target with the benchmark; coming in at 49.3% through December 2021. The shared services reimbursement is comprised of both labor (tracked via BigTime) and expenses, such as annual fees for software licensing. Staff from both GLWA and DWSD have been working together to evaluate and refine the budget for the shared services agreements. Based on these evaluations, adjustments have been made to both the billings and accounting accruals to reflect the forecasted activity more accurately for FY 2022. A first quarter budget amendment was entered to adjust the shared services budget to this revised FY 2022 forecast. In addition, it is important to note that some of the shared services agreements are not billed at a monthly rate of 1/12 of the annual budgeted amount.

Table 3 – Operations & Maintenance Expense Variance Analysis – (\$000)

| | | | | | | | | | | FY 2022 |
|----------------------------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|----------|
| | | | | | | | FY 2022 | | | PRORATED |
| | | FY 2021 | Percent | FY 2021 | Percent | | PRORATED | FY 2022 | Percent | BUDGET |
| | FY 2021 | ACTIVITY | Year-to- | ACTIVITY | Year-to- | FY 2022 | AMENDED | ACTIVITY | Year-to- | LESS |
| Expense Categories | AMENDED | THRU | Date at | THRU | Date at | AMENDED | BUDGET | THRU | Date | FY 2022 |
| Entity-wide | BUDGET | 12/31/2020 | 12/31/2020 | 6/30/2021 | 6/30/2021 | BUDGET | (6 MONTHS) | 12/31/2021 | 12/31/2021 | ACTIVITY |
| Salaries & Wages | \$ 67,306 | \$ 32,600 | 48.4% | \$ 64,910 | 50.2% | \$ 71,001 | \$ 35,501 | \$ 32,642 | 46.0% | \$ 2,858 |
| Workforce Development | 895 | 444 | 49.7% | 829 | 53.6% | 977 | 488 | 379 | 38.8% | 109 |
| Overtime | 7,537 | 3,848 | 51.1% | 7,365 | 52.2% | 6,898 | 3,449 | 3,859 | 55.9% | (410) |
| Employee Benefits | 26,806 | 13,369 | 49.9% | 25,448 | 52.5% | 26,829 | 13,415 | 12,693 | 47.3% | 721 |
| Transition Services | 8,557 | 3,972 | 46.4% | 8,392 | 47.3% | 8,296 | 4,148 | 5,106 | 61.5% | (958) |
| Employee Benefits Fund | - | 123 | 0.0% | - | 0.0% | - | - | - | 0.0% | - |
| Personnel Costs | 111,100 | 54,356 | 48.9% | 106,945 | 50.8% | 114,001 | 57,000 | 54,680 | 48.0% | 2,321 |
| | | | | | | | | | | |
| Electric | 41,554 | 21,434 | 51.6% | 41,982 | 51.1% | 39,633 | 19,817 | 22,302 | 56.3% | (2,485) |
| Gas | 5,924 | 2,153 | 36.4% | 5,706 | 37.7% | 5,566 | 2,783 | 3,107 | 55.8% | (325) |
| Sewage Service | 2,297 | 907 | 39.5% | 2,075 | 43.7% | 2,079 | 1,040 | 1,279 | 61.5% | (239) |
| Water Service | 2,608 | 1,294 | 49.6% | 2,987 | 43.3% | 3,120 | 1,560 | 1,212 | 38.8% | 348 |
| Utilities | 52,383 | 25,788 | 49.2% | 52,749 | 48.9% | 50,398 | 25, 199 | 27,900 | 55.4% | (2,701) |
| o | | | | | | | | | | ((|
| Chemicals | 14,362 | 7,358 | 51.2% | 13,982 | 52.6% | 16,044 | 8,022 | 9,384 | 58.5% | (1,362) |
| Supplies & Other | 35,595 | 15,402 | 43.3% | 31,216 | 49.3% | 39,617 | 19,808 | 13,911 | 35.1% | 5,897 |
| Contractual Services | 99,977 | 49,447 | 49.5% | 92,020 | 53.7% | 104,835 | 52,417 | 53,627 | 51.2% | (1,210) |
| Capital Program Allocation | (3,447) | (1,463) | 42.5% | (3,192) | 45.8% | (3,471) | (1,736) | (1,389) | | (347) |
| Shared Services | (4,512) | (2,296) | 50.9% | (2,567) | 89.5% | (2,776) | , | (1,369) | | (19) |
| Unallocated Reserve | 10,966 | - | 0.0% | | 0.0% | 6,586 | 3,293 | - | 0.0% | 3,293 |
| Total Expenses | \$ 316,424 | \$ 148,592 | 47.0% | \$ 291,153 | 51.0% | \$ 325,234 | \$ 162,617 | \$ 156,744 | 48.2% | \$ 5,872 |

Totals may be off due to rounding



The Basic Financial Statements report includes the following four tables.

- 1. Statement of Net Position All Funds Combined
- 2. Statement of Revenues, Expenses and Changes in Net Position All Funds Combined
- 3. Supplemental Schedule of Operations & Maintenance Expenses -All Funds Combined
- Supplemental Schedule of Nonoperating Expenses All Funds Combined

At a macro level GLWA has two primary funds for financial reporting purposes: Water Fund and Sewage Disposal Fund. These funds represent the combined total of four subfunds for each system that are used internally to properly account for sources and uses of Those sub-funds for each system are: Operations & Maintenance Fund, funds. Improvement & Extension Fund, Construction Fund, and Capital Asset Fund.

The June 2021 comparative amounts shown in the tables below are presented based on final audited figures.

Statement of Net Position – All Funds Combined

Explanatory notes follow the Statement of Net Position shown in Table 1 below.

Table 1 – Statement of Net Position - All Funds Combined As of December 31, 2021 (\$000)

| | | (\$00 | U) | | | |
|-------------------------------------|----|-----------|----|-----------|-----------------|---------------|
| | | | - | Sewage | Total Business- | Comparative |
| | | Water | | Disposal | type Activities | June 30, 2021 |
| Assets | | | | | | |
| Cash - unrestricted (a) | \$ | 132,560 | \$ | 176,614 | \$ 309,174 | \$ 354,351 |
| Cash - restricted (a) | | 53,556 | | 52,313 | 105,869 | 162,646 |
| Investments - unrestricted (a) | | 169,064 | | 121,524 | 290,588 | 322,930 |
| Investments - restricted (a) | | 59,706 | | 111,152 | 170,858 | 70,225 |
| Accounts Receivable | | 95,196 | | 64,816 | 160,013 | 165,059 |
| Due from (to) Other Funds (b) | | (921) | | 921 | - | - |
| Other Assets (c) | | 677,291 | | 424,381 | 1,101,671 | 1,098,362 |
| Cash Held FBO DWSD Advance (d) | | - | | (1,556) | (1,556) | - |
| Capital Assets, net of Depreciation | | 1,280,132 | | 2,149,457 | 3,429,589 | 3,546,027 |
| Land | | 293,897 | | 124,377 | 418,274 | 417,512 |
| Construction Work in Process (e) | | 272,322 | | 217,938 | 490,261 | 395,973 |
| Total assets | | 3,032,803 | | 3,441,937 | 6,474,740 | 6,533,085 |
| Deferred Outflows (f) | | 65,450 | | 154,100 | 219,550 | 225,074 |
| Liabilities | | | | | | |
| Liabilities - Liabilities-ST | | 153,265 | | 168,528 | 321,793 | 329,279 |
| Due to (from) Other Funds (b) | | - | | | - | - |
| Other Liabilities (h) | | 2,336 | | 6,255 | 8,591 | 7,500 |
| Cash Held FBO DWSD (d) | | 11,859 | | 4,176 | 16,035 | 6,064 |
| Liabilities - Long-Term (i) | | 2,974,907 | | 3,477,650 | 6,452,557 | 6,529,068 |
| Total liabilities | _ | 3,142,366 | | 3,656,609 | 6,798,975 | 6,871,911 |
| Deferred Inflows (f) | | 50,297 | | 42,316 | 92,613 | 96,380 |
| Total net position (j) | \$ | (94,410) | \$ | (102,888) | \$ (197,298) | \$ (210,132) |
| Totals may be off due to rounding | _ | | | | | |

Totals may be off due to rounding



In general, the Statement of Net Position reflects a mature organization with no unexpected trends.

An ongoing challenge is the Net Position Deficit. The underlying causes took years to build (largely heavy use of debt to finance capital asset investment versus a strategic blend of debt, state revolving funds, and cash). The effect is reflected in GLWA's high debt interest expense. The GLWA is regularly updating the FY 2032 forecast which helps to provide a pathway to a positive Net Position in the future.

Footnotes to Statement of Net Position

- a. *Cash and Investments* are reported at market value. Investments at June 30, 2021 are also reported at market value. The December 31, 2021 values differ from the Cash and Investment section of this Financial Report Binder due to timing of certain items recognized on a cash versus accrual basis.
- b. *Due from Other Funds* and *Due to Other Funds* are shown at gross for sub-fund activity.
- c. *Other Assets* primarily consists of the contractual obligation receivable from DWSD related to reimbursement of bonded indebtedness for local system improvements.
- d. *Cash Held FBO Advance (for benefit of) DWSD* and *Cash Held FBO DWSD* represents the net difference between DWSD retail cash received from customers and net financial commitments as outlined in the Master Bond Ordinance.
- e. *Construction Work in Process* represents the beginning balance of CWIP plus any construction spending during the fiscal year. The balance will fluctuate based on the level of spend less any capitalizations or write-offs.
- f. *Deferred Inflow* and *Deferred Outflow* relate mainly to financing activity and GLWA's share of the legacy General Retirement System (GRS) pension obligation.
- g. *Liabilities Short-term* include accounts payable, retainage payable, and certain accrued liabilities. Some items, such as compensated absences and worker's compensation, are reviewed periodically but only adjusted in the interim if there is a material change.
- h. *Other Liabilities* account for the cash receipts set aside for the Budget Stabilization Fund and the Water Residential Assistance Program.
- i. *Liabilities Long-term* include bonds payable, lease payable, and legacy General Retirement System pension liabilities.
- j. Net Position Deficit is defined by 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. GLWA's net deficit is largely driven by an increase in depreciation expense because of the increase in the acquisition valuation approach for recording capital asset values in the opening Statement of Net Position on January 2016. Efforts are underway to evaluate the net operating effect of this matter over the long term.



Statement of Revenues, Expenses and Changes in Net Position – All Funds Combined

This statement, shown in Table 2, is presented in summary format. The accrual basis of revenues and operations and maintenance expense vary from the revenue requirement basis presented in the *Budget to Actual Analysis* and the *Wholesale Billings, Receivables & Collections* sections of the December 2021 Financial Report Binder. Prior year ending balances are provided in the June 30, 2021 column as a reference for comparative purposes. Explanatory notes follow this statement.

Water revenues presented below in Table 2 differ from those presented in *Table 1A – Water Revenue Requirement Budget* found in the *Budget to Actual Analysis* section of this report because water revenues presented in Table 1A for revenue requirement purposes are reduced by the monthly payment to the City of Flint for a license to raw water rights.

Table 2 – Statement of Revenues, Expenses and Changes in Net Position– All Funds CombinedFor the Six Months ended December 31, 2021
(\$000)

| | | | | | Total | |
|---|-------------|----------|-----------|---------|------------------|-----------------------|
| | | Percent | | Percent | Business- | |
| | | of | Sewage | of | Туре | Comparative |
| _ | Water | Revenue | Disposal | Revenue | Activities | June 30, 2021 |
| Revenue | | | | | | |
| Wholesale customer charges | \$ 166,280 | 93.7% \$ | 136,135 | 57.3% | \$ 302,415 | \$ 589,992 |
| Local system charges | 10,849 | 6.1% | 94,331 | 39.7% | 105,180 | 209,885 |
| Industrial waste charges | | 0.0% | 4,159 | 1.8% | 4,159 | 8,005 |
| Pollutant surcharges | | 0.0% | 2,627 | 1.1% | 2,627 | 6,720 |
| Other revenues | 247 | 0.1% | 288 | 0.1% | 535 | 767 |
| Total Revenues | 177,376 | 100.0% | 237,540 | 100.0% | 414,915 | 815,369 |
| | | | | | | |
| Operating expenses | | | | | | |
| Operations and Maintenance | 68,277 | 38.5% | 90,750 | 38.2% | 159,027 | 301,740 |
| Depreciation | 61,770 | 34.8% | 78,264 | 32.9% | 140,034 | 274,044 |
| Amortization of intangible assets | 1,783 | 1.0% | 220 | 0.1% | 2,003 | 3,677 |
| Total operating expenses | 131,830 | 74.3% | 169,234 | 71.2% | 301,064 | 579,460 |
| Operating Income | 45,546 | 25.7% | 68,306 | 28.8% | 113,851 | 235,909 |
| | | | | | | |
| Total Nonoperating (revenue) expense | 42,690 | 24.1% | 58,327 | 24.6% | 101,018 | 224,464 |
| Increase/(Decrease) in Net Position | 2,855 | 1.6% | 9,979 | 4.2% | 12,834 | 11,445 |
| Net Position (deficit), beginning of year | (97,266) | - | (112,867) | | (210,132) | Sectore of the sector |
| | \$ (94,410) | \$ | | | \$ (197,298) | |
| Totals may be off due to rounding | • • • | : = | • • • | | | <u> </u> |

All amounts are unaudited unless otherwise noted.



Water Fund

- ✓ The increase in Water Fund Net Position is \$2.9 million.
- ✓ Wholesale water customer charges of \$166.3 million account for 93.7% of Water System revenues.
- ✓ Operating expenses of \$131.8 million represent 74.3% of total operating revenue. Depreciation is the largest operating expense at \$61.8 million or 46.9% of operating expense.
- ✓ Amortization of intangible assets represents activity for raw water rights.
- ✓ Operating income after operating expenses (including depreciation) equals \$45.5 million or 25.7% of operating revenue.
- ✓ The largest category within nonoperating activities is bonded debt interest expense of \$39.2 million (this equates to the bonded debt interest expense less the offset from DWSD contractual obligation income).

Sewage Disposal Fund

- ✓ The increase in the Sewage Disposal Fund Net Position is \$10.0 million.
- ✓ Wholesale customer charges of \$136.1 million account for 57.3% of Sewer System revenues. Wholesale customer charges are billed one-twelfth each month based on an agreed-upon historical average "share" of each customer's historical flows which are formally revisited on a periodic basis. The result is no revenue shortfall or overestimation.
- ✓ Local system (DWSD) charges of \$94.3 million account for 39.7% of total operating revenues. These are also billed at one-twelfth of the annual revenue requirement.
- ✓ Operating expenses of \$169.2 million represent 71.2% of total operating revenue. Depreciation is the largest operating expense at \$78.3 million or 46.2% of total operating expense.
- ✓ Amortization of intangible assets represents activity for a warehouse lease.
- ✓ Operating income after operating expenses (including depreciation) equals \$68.3 million or 28.8% of operating revenue.
- ✓ The largest category within nonoperating activities is bonded debt interest expense of \$45.7 million (this equates to the bonded debt interest expense less the offset from DWSD contractual obligation income).

Supplemental Schedule of Operations & Maintenance Expenses – All Funds Combined

This Supplemental Schedule of Operations & Maintenance Expenses (O&M) schedule is shown below in Table 3. This accrual basis of operations and maintenance expense may vary from the revenue requirement basis presented in the *Budget to Actual Analysis* section of the December 2021 Financial Report Binder. Explanatory notes follow this schedule.

Table 3 – Supplemental Schedule of Operations & Maintenance Expenses– All Funds CombinedFor the Six Months ended December 31, 2021
(\$000)

| | | | | | | | | Total | |
|--|---------|---------|---------------------|-----|--------------------|---------------------|----|-----------|---------------------|
| | | | | | | _ | | usiness- | |
| | | Water | Percent of Total | 5.1 | Sewage Disposal | Percent of Total | | Type | Percent of Total |
| | | Water | Total | | Disposal | TOLAI | Ρ | ctivities | TOLAI |
| Operating Expenses | | | | | | | | | |
| Personnel | | | | | | | | | |
| Salaries & Wages | | 11,433 | 16.7% | | 26,694 | 29.4% | | 38,128 | 24.0% |
| Overtime | | 2,494 | 3.7% | | 1,364 | 1.5% | | 3,859 | 2.4% |
| Benefits | | 8,798 | 12.9% | | 3,895 | 4.3% | | 12,693 | 8.0% |
| Total Personnel | \$ | 22,725 | 33.3% | \$ | 31,954 | 35.2% | \$ | 54,679 | 34.4% |
| Utilities | | | | | | | | | |
| Electric | | 13,673 | 20.0% | | 8,629 | 9.5% | | 22,302 | 14.0% |
| Gas | | 447 | 0.7% | | 2,661 | 2.9% | | 3,107 | 2.0% |
| Sewage | | 515 | 0.8% | | 764 | 0.8% | | 1,279 | 0.8% |
| Water | | 1 | 0.0% | | 1,210 | 1.3% | | 1,211 | 0.8% |
| Total Utilities | \$ | 14,636 | 21.4% | \$ | 13,264 | 14.6% | \$ | 27,900 | 17.5% |
| Chemicals | | 3,541 | 5.2% | | 5,843 | 6.4% | | 9,384 | 5.9% |
| Supplies and other | | 4,370 | 6.4% | | 9,343 | 10.3% | | 13,714 | 8.6% |
| Contractual services | | 25,152 | 36.8% | | 31,013 | 34.2% | | 56,165 | 35.3% |
| | | | 0.0% | | | 0.0% | | 50,105 | 0.0% |
| Capital Adjustment | | - | | | - | | | - | |
| Capital program allocation | | (941) | | | (447) | | | (1,389) | |
| Intergovernmental Agreement | | (10) | | | (47) | | | (58) | |
| Shared services allocation | <u></u> | (1,197) | -1.8% | | (172) | -0.2% | | (1,369) | -0.9% |
| Operations and Maintenance Expenses | \$ | 68,277 | 100.0% | \$ | 90,750 | 100.0% | \$ | 159,027 | 100.0% |
| Totals may be off due to rounding | | | | | | | | | |



- ✓ Core expenses for water and sewage disposal systems are utilities (17.5% of total O&M expenses) and chemicals (5.9% of total O&M expenses).
- ✓ Personnel costs (34.4% of total O&M expenses) include all salaries, wages, and benefits for employees as well as staff augmentation contracts that fill a vacant position (contractual transition services).
- ✓ Contractual services (35.3%) includes:
 - Water System costs of sludge removal and disposal services at the Northeast, Southwest and Springwells Water Treatment Plants (approximately \$5.8 million);
 - Sewage Disposal System costs for the operation and maintenace of the biosolids dryer facility (approximately \$8.2 million); and
 - Centralized and adminisitrative contractual costs allocated to both systems for information technology, building maintenace, field, planning and other services.
- ✓ The Capital Program Allocation, Intergovernmental Agreement and Shared Services Allocation are shown as negative amounts because they are 'contra' expense accounts representing offets to associated costs in other Operations and Maintenance expense categories.



Supplemental Schedule of Nonoperating Expenses – All Funds Combined

The Supplemental Schedule of Nonoperating Expenses – All Funds Combined is shown in Table 4. Explanatory notes follow this schedule.

Table 4 – Supplemental Schedule of Nonoperating Expenses – All Funds CombinedFor the Six Months ended December 31, 2021

(\$000)

| | | Water | Sewage Disposal | Total Business- type Activities | Comparative June 30, 2021 |
|---|----|----------|--------------------|--|------------------------------|
| Nonoperating (Revenue)/Expense | - | | • | | |
| Interest income contractual obligation | \$ | (12,514) | \$ (8,507) | \$ (21,021) | \$ (43,087) |
| Interest income DWSD Shortfall | | - | (106) | (106) | (635) |
| Investment earnings | | (1,064) | (843) | (1,906) | (7,040) |
| Net incr (decr) in fair value of invstmt | | 1,500 | 1,006 | 2,505 | 5,781 |
| Other nonoperating revenue | | (73) | (2) | (75) | 476 |
| Interest Expense | | | | | |
| Bonded debt | | 51,720 | 54,191 | 105,911 | 218,857 |
| Lease obligation | | 8,542 | 10,440 | 18,981 | 38,332 |
| Other obligations | | 2,275 | 832 | 3,107 | 6,296 |
| Total interest expense | | 62,537 | 65,462 | 127,999 | 263,485 |
| Other non-capital expense | |)= | - | - | - |
| Memorandum of Understanding | | - | - | - | - |
| Capital Contribution | | - | 34 | 34 | (5,960) |
| Amortization, issuance costs, debt | | (7,790) | 1,157 | (6,633) | (12,966) |
| (Gain) loss on disposal of capital assets | | (13) | (22) | (35) | 365 |
| Loss on impairment of capital assets | | - | - | - | - |
| Water Residential Assistance Program | | 107 | 147 | 254 | 1,517 |
| Legacy pension expense | | - | - | - | 22,528 |
| Total Nonoperating (Revenue)/Expense | | 42,690 | 58,327 | 101,018 | 224,464 |
| Totals may be off due to rounding | | | | | |

Totals may be off due to rounding

- ✓ Interest income on contractual obligation relates to the portion of the total GLWA debt obligation attributable to DWSD. This interest income offsets the total debt interest expense paid by GLWA on behalf of both entities monthly.
- ✓ Interest income DWSD shortfall represents interest from a budgetary shortfall loan from fiscal years 2016, 2017 and 2018 and is paid in accordance with the 2018 Memorandum of Understanding (MOU).
- ✓ Investment earnings in this report are reflected at book value. Any differences between the Basic Financial report and Cash and Investment section of this Financial Report binder are due to accrued interest. FY 2020 market value adjustments for Water and Sewer totaled \$4.9 million and \$3.3 million, respectively.



FY 2021 market value adjustments for Water and Sewer totaled \$1.5 million and \$1.0 million, respectively.

- ✓ Interest expense, the largest category of nonoperating expenses, is made up of three components:
 - Bonded debt;
 - Lease obligation for the regional assets from the City of Detroit; and
 - Other obligations such as an obligation payable to the City of Detroit for an allocation BC Notes related to assumed DWSD liabilities; acquisition of raw water rights related to the KWA Pipeline.
- The FY 2021 capital contribution in Nonoperating (revenue) expense represents one-half of an \$11.92 million payment made by Oakland Macomb Interceptor Drainage District (OMIDD). The payment was part of an amendment to the OMIDD Wastewater Disposal Services Contract and was split between FY 2020 and FY 2021 based on budgeted revenue requirements for those respective years.

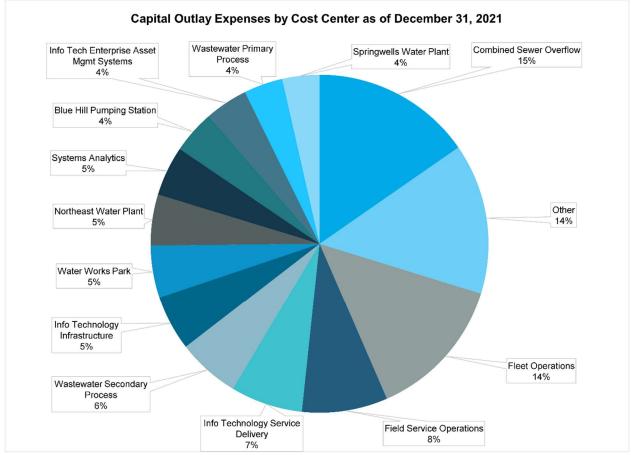


Financial Activity Charts

Chart 1 – Capital Outlay – Water and Sewer System Combined

Capital Outlay represents purchases of equipment, software, and small facility improvement projects. It *excludes* any capital investment which is included in the monthly construction work-in-progress report related to the Capital Improvement Program. Some items span several months so the entire cost may not have been incurred yet. In addition, items are capitalized only if they meet GLWA's capitalization policy.

Through December 31, 2021, total capital outlay spend is \$5.0 million. Following this chart is a sample list of projects and purchases from the total spend of \$5.0 million:



Note: Due to rounding totals may not equal 100%.

Water Operations: 14 Mile Water Main Assessment (\$350k); Turbidmeter at Northeast Water Plant (\$216k); power inverter (\$141k); Water Works Park furniture (\$115k); Southwest Water Plant furniture (\$74k); high pressure water tank (\$65k); buoy system



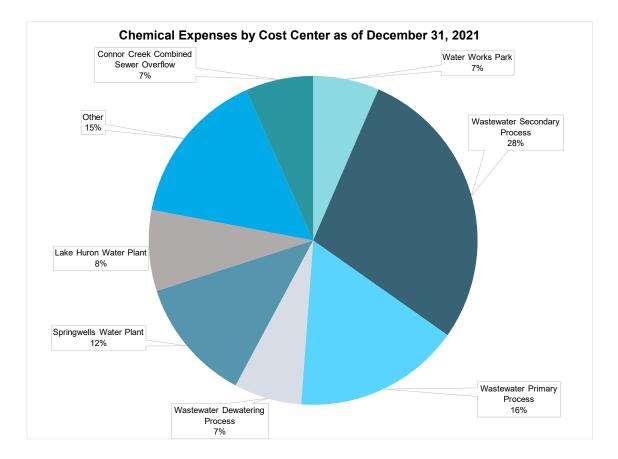
(\$56k); excitation motor retrofit (\$42k); vacuum regulator (\$40k) and steam generator (\$39k).

Wastewater Operations: PQM Meters for CSO Facilities (\$771k); wastewater pump (\$347k); B-houses (\$167k); Main Lift Pump emergency repair (\$140k) and metering pump (\$33k).

Centralized & Administrative Facilities: Trucks and vehicles (\$689k); IT computers and hardware (\$344k); IT software (\$336k); sewer meter support (\$239k); and chemical monitoring equipment (\$78k).

Chart 2 – Chemical Expenses – Water and Sewer System Combined

Chemical expenses are \$9.4 million through December 31, 2021. The allocation is shown in the chart below and remains consistent with prior periods.

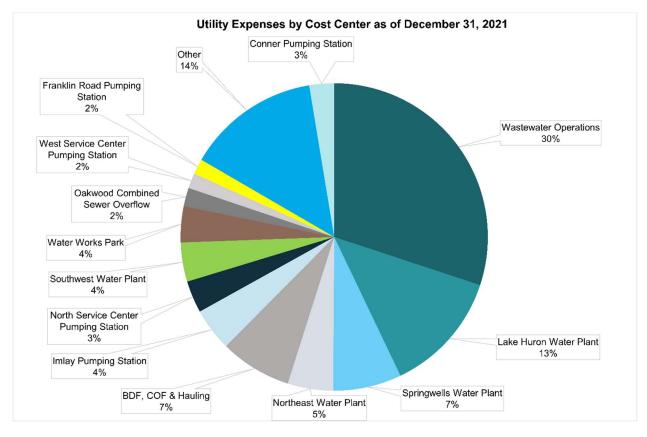


Note: "Other" includes Combined Sewer Overflow (CSO), portions of the Wastewater process and two departments from Water. Due to rounding totals may not equal 100%.



Chart 3 – Utility Expenses – Water and Sewer System Combined

Utility expenses are \$27.9 million through December 31, 2021. The allocation is shown in the chart below and consistent with prior periods.



Note: Due to rounding totals may not equal 100%.



Financial Operations KPI

This key performance indicator shown in *Chart 1 – Bank Reconciliation Completion Status* below provides a measure of the progress made in the month-end close process which includes bank reconciliations with a completed status at month end. Through December 31, 2021 all reconciliations are up-to-date and complete.

There were no changes in accounts since November 2021.

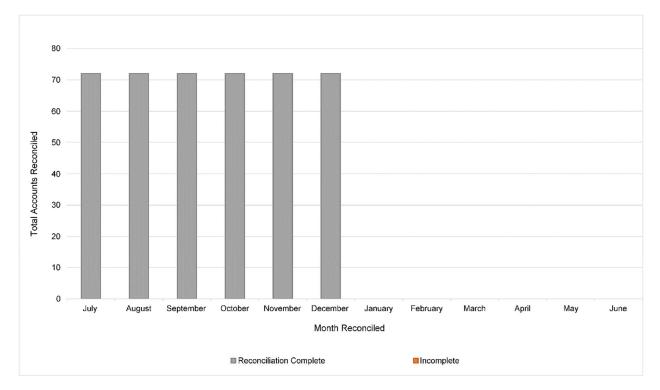


Chart 1 – Bank Reconciliation Completion Status

Table 1 – Fiscal Year 2022 GL Cash Account Rollforward

| Total GL Cash accounts as of July 1, 2021 | 72 |
|--|----|
| New GL Cash accounts | 0 |
| Inactivated GL Cash accounts | 0 |
| Total GL Cash accounts as of December 31, 2021 | 72 |

Financial Operations KPI - Liquidity

This key performance indicator shown in *Chart 1 – Historical Schedule of Days Cash* on *Hand – Liquidity – Regional System* and *Table 1 – Schedule of Days Cash on Hand – Liquidity – Regional System* below provides a measure of a utility's ability to meet expenses, cope with emergencies and navigate business interruptions. Liquidity is one of several key metrics monitored by bond rating agencies reflecting an organization's financial strength. A best practice benchmark for this key performance indicator is greater than 250 days cash on hand as shown by the dashed line in Chart 1 below.

Both GLWA Water and Sewer funds continue to exceed this target with Water at 753 and Sewer at 605 days cash on hand as of December 31, 2021. These balances remain strong for the regional system in large part due to the need to fund CIP projects with I&E funds but drop in the FY 2022 projection as these funds are depleted and GLWA transitions to a planned bond issue. The FY 2022 projection is calculated based on values from the GLWA FY 2022 – 2026 Budget & Five-Year Plan.

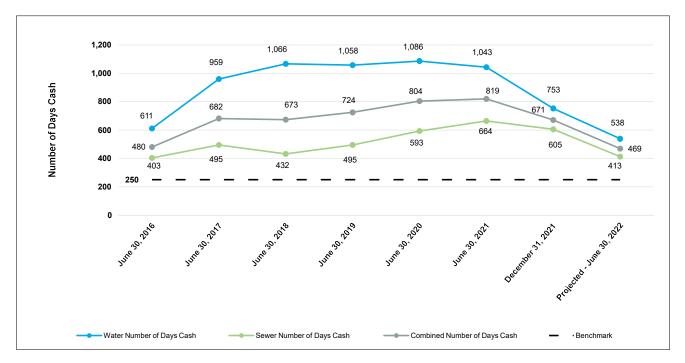


Chart 1 – Historical Schedule of Days Cash on Hand – Liquidity – Regional System

Note: The GLWA Annual Comprehensive Financial Reports are the source of all historic data referenced. Refer to these reports for detailed calculations by fiscal year.



Table 1 – Schedule of Days Cash on Hand – Liquidity – Regional System

| | J | une 30, 2021 | Dec | ember 31, 2021 | J | Projected une 30, 2022 |
|--|----------|---------------|-----|----------------|----|---------------------------|
| Water Fund | ^ | 050 000 000 | • | 004 004 000 | • | 0.17 000 000 |
| Cash and Investments - Unrestricted | \$ | 353,308,000 | \$ | 301,624,000 | \$ | 217,600,000 |
| Operating Expense | | | | | | |
| Operating Expense (a) | \$ | 250,476,000 | \$ | 138,200,000 | \$ | 276,400,000 |
| Less: Depreciation (a) | | (123,272,000) | | (62,667,000) | | (125,333,000) |
| Less: Amortization of Intangible Asset (a) | | (3,567,000) | | (1,783,000) | | (3,567,000) |
| Net Operating Expense | \$ | 123,638,000 | \$ | 73,750,000 | \$ | 147,500,000 |
| Operating Expense per Day | \$ | 339,000 | \$ | 401,000 | \$ | 404,000 |
| Days Cash | | | | | | |
| Number of Days Cash | | 1,043 | | 753 | | 538 |
| Sewage Disposal Fund | | | | | | |
| Cash and Investments - Unrestricted | \$ | 323,973,000 | \$ | 298,138,000 | \$ | 205,000,000 |
| Operating Expense | | | | | | |
| Operating Expense (a) | \$ | 328,983,000 | \$ | 164,050,000 | \$ | 328,100,000 |
| Less: Depreciation (a) | | (150,772,000) | | (73,400,000) | | (146,800,000) |
| Less: Amortization of Intangible Asset (a) | | (110,000) | | - | | - |
| Net Operating Expense | \$ | 178,101,000 | \$ | 90,650,000 | \$ | 181,300,000 |
| Operating Expense per Day | \$ | 488,000 | \$ | 493,000 | \$ | 497,000 |
| Days Cash | | | | | | |
| Number of Days Cash | | 664 | | 605 | | 413 |
| Combined | | | | | | |
| Cash and Investments - Unrestricted | \$ | 677,281,000 | \$ | 599,762,000 | \$ | 422,600,000 |
| Operating Expense | | | | | | |
| Operating Expense (a) | \$ | 579,460,000 | \$ | 302,250,000 | \$ | 604,500,000 |
| Less: Depreciation (a) | | (274,044,000) | | (136,067,000) | | (272,133,000) |
| Less: Amortization of Intangible Asset (a) | | (3,677,000) | | (1,783,000) | | (3,567,000) |
| Net Operating Expense | \$ | 301,740,000 | \$ | 164,400,000 | \$ | 328,800,000 |
| Operating Expense per Day | \$ | 827,000 | \$ | 893,000 | \$ | 901,000 |
| Days Cash | | | | | | |
| Number of Days Cash | | 819 | | 671 | | 469 |
| Totals may be off due to rounding | | | | | | |

(a) Current year expenses are expressed as a proration of the annual budget for the purposes of this metric.



The monthly Budget to Financial Statements Crosswalk includes the following.

- 1. Crosswalk Budget Basis to Financial Reporting Basis
- 2. Explanatory Notes for Crosswalk

Purpose for Crosswalk: The Great Lakes Water Authority establishes a "Revenue Requirements" budget for the purposes of establishing charges for services. The financial report is prepared in accordance with Generally Accepted Accounting Policies for enterprise funds of a local government. Because the budget and the financial statements are prepared using different basis of accounting, the crosswalk reconciles the "Net Difference" to the "Increase/(Decrease) in Net Position" in Table 2 of the Basic Financial Statements in the monthly Financial Report.

The Authority has a Water Master Bond Ordinance and a Sewer Master Bond Ordinance (MBO). The Ordinances provide additional security for payment of the bonds. All revenues of the system are deposited into Revenue Receipts Funds which are held in trust by a trustee. The cash is moved to multiple bank accounts monthly based on 1/12th of the budget as defined in the MBO ("the flow of funds") for all revenue requirements except for the Debt Service monthly transfer. The Debt Service monthly requirement is computed by the trustee, U.S. Bank. The cash transfer for debt is net of investment earnings that remain in the debt service accounts to be used for debt service.

The budget is prepared on a modified cash basis. The revenue requirements are determined based upon the cash needed to meet the financial commitments as required by the Master Bond Ordinance.

- Operation & Maintenance (O&M) expenses based on an accrual basis
- O&M Legacy Pension Allocation (includes administrative fee) and Accelerated Legacy Pension Allocation (includes B&C notes obligation) based on a cash basis
- Debt Service Allocation based on a cash set aside basis to provide the cash for the debt payments on the due dates
- Lease payments based on a cash basis
- Water Residential Assistance Program based on a percentage of budgeted revenue
- Regional System Improvement & Extension Fund Allocation on a cash basis

Budget: In Table 1A and Table 1B of the Budget to Actual Analysis the 'Revenues' section is the accrual basis revenues that are available to meet the 'Revenue Requirements'. The 'Revenue Requirements' section budget column indicates the annual cash transfers to be made.



Financial Reporting: The Authority's financial statements are prepared in conformity with generally accepted accounting principles (GAAP) as applied to government units. The Authority maintains its records on the accrual basis of accounting to conform to GAAP. Revenues from operations, investments and other sources are recorded when earned. Expenses (including depreciation) are recorded when incurred.

Table 1 – Crosswalk Budget Basis to Financial Reporting Basis provides a reconciliation of the "Net Difference" in Table 1A and Table 1B in the Budget to Actual Analysis report to the "Increase/(Decrease) in Net Position" in Table 2 of the Basic Financial Statements in this monthly Financial Report. Explanatory notes follow the Crosswalk shown in Table 1 below.

| | Water | Sewer | Total |
|---|-------------|-------------|--------------|
| Net Revenue Requirement Budget Variance (a) | \$ 8,217 | \$ 832 | \$ 9,049 |
| Budgetary categories adjustments to financial reporting basis | | | |
| Pension delayed accounting election adjustments | | | |
| Current year pension transfers/payments recorded as deferral (c) | 5,720 | 10,238 | 15,958 |
| Prior year pension contribution accounted for in current year (d) | - | - | - |
| Administrative prepaid adjustment (e) | - | - | - |
| Debt service (f) | 28,648 | 57,972 | 86,620 |
| Accelerated pension B&C notes obligation portion (g) | 97 | 219 | 316 |
| Regional System lease (h) | 2,708 | 3,310 | 6,018 |
| Right to use lease - warehouse (h) | | 132 | 132 |
| WRAP (i) | 746 | 1,032 | 1,778 |
| DWSD short term allocation (j) | - | 1,358 | 1,358 |
| Operating Reserve Deposit (j) | - | - | - |
| Improvement & Extension Fund transfers (j) | 12,538 | 15,382 | 27,920 |
| Nonbudgeted financial reporting categories adjustments | | | |
| Depreciation and amortization (k) | (63,553) | (78,484) | (142,037) |
| Amortization - debt related (k) | 7,790 | (1,157) | 6,633 |
| Other nonoperating income (k) | 73 | 2 | 75 |
| Other nonoperating expense (k) | - | - | - |
| Gain(loss) on disposal of capital assets (k) | 13 | 22 | 35 |
| Raw water rights obligation (I) | 1,353 | - | 1,353 |
| Investment earnings for construction fund (m) | 5 | 8 | 13 |
| Interest on DWSD note receivable (n) | - | 106 | 106 |
| Investment earnings unrealized gain/loss (o) | (1,500) | (1,006) | (2,506) |
| Interlocal agreement reimbursements to improvement & | | 47 | 47 |
| extension fund (p) | - | 47 | 47 |
| Capital Contribution (q) | - | (34) | (34) |
| Net Position Increase/(Decrease) per Financial Statements (b) | \$ 2,855 | \$ 9,979 | \$ 12,834 |

Table 1 – Crosswalk Budget Basis to Financial Reporting Basis (\$000)For the Six Months Ended December 31, 2021

Table 2 - Explanatory Notes for Crosswalk

- (a) Source: Budget to Actual Table 1A and Table 1B in Monthly Financial Report
- (b) Source: Basic Financial Statements Table 2 in Monthly Financial Report
- (c) Current year pension payments are an expense for budget purposes but not for financial reporting purposes.
- (d) Prior year pension payments are accounted for in the current year financial statements.



- (e) The administrative fee is part of the O&M Legacy Pension shown as an expense for budget purposes. For financial reporting purposes part of the administrative fee is considered prepaid based on the prior year General Retirement System audit information and therefore not an expense for the current year financial reporting. The prepaid portion is adjusted in June each year.
- (f) Debt service (principal and interest payments) are shown as an expense for budget purposes. Most of the adjustment relates to principal payments which are not an expense for financial reporting purposes. A portion of the adjustment relates to interest expense variances on state revolving fund debt due to the timing of payment draws. The cash set aside basis for interest expense generally is the same as the accrual basis for financial reporting.
- (g) The accelerated pension payment includes the obligation payable for the B&C notes. The pension portion is included in item (c) above. This adjustment relates to the B&C note obligation payments. The principal and interest cash basis payments are treated as an expense for budget purposes. The principal portion is not an expense for financial reporting purposes. For financial reporting purposes interest is expensed on an accrual basis which is different from the cash basis.
- (h) The lease payment is included as an expense for budget and includes both principal and interest payments. Most of the adjustment relates to the principal payments which are not an expense for financial reporting purposes. A portion of the adjustment relates to interest expense which is recorded on an accrual basis for financial reporting which is different from the cash basis.
- (i) WRAP is shown as an expense for budget purposes. For financial reporting purposes the expense is not recognized until the funds have been transferred to the WRAP administrator. The adjustment shown is the amount of current year transfers that have not been transferred to the WRAP administrator. Note that there are funds from the prior year that have not been transferred to the WRAP administrator.
- (j) The DWSD short term allocation, Operating Reserve Deposit, and Improvement & Extension Fund transfers are shown as an expense for budget purposes but not for financial reporting purposes. For FY 2022, the Water Improvement and Extension fund reflects \$1.2 million, and the Sewer Improvement and Extension fund reflects \$1.4 million in expenses relating to repairs paid for through the Water and Sewer Improvement and Extension funds, respectively. These are consolidated expenses for financial reporting purposes but are not reflected in the current Operations and Maintenance budget expenses.



- (k) Certain nonoperating income and expenses are reported in financial statements only.
- (I) The water service contract with Flint includes a license for raw water rights which has been recorded as an asset and liability by the Authority. The contract provides a credit to Flint as Flint satisfies its monthly bond payment obligation to KWA. This KWA credit is treated as a noncash payment of principal and interest on the liability recorded for the raw water rights. For budget, wholesale customer charges are net of the anticipated KWA credits to Flint as that is the cash that will be received and available to meet the budgeted revenue requirements. For financial reporting basis the Flint wholesale charges are recorded at the total amount billed. When the KWA credit is issued, the receivable from Flint is reduced and the principal and interest payments on the liability for the raw water rights are recorded as a noncash transaction. Most of the adjustment shown relates to the principal reduction made for the credits applied which are not an expense for financial reporting basis.
- (m) Investment earnings from the construction fund are not shown as revenue in the budget and are shown as revenue in the financial statements. Construction fund investment earnings are excluded from the definition of revenue for budget purposes as they are used for construction costs and are not used to meet the revenue requirements in the budget.
- (n) Interest on the DWSD note receivable is budgeted as part of the Sewer improvement and extension fund and is transferred directly to that fund as payments are made.
- (o) Unrealized gains and losses are recorded annually as required for financial reporting purposes but do not reflect actual investment earnings and are not included in cash basis reporting.
- (p) GLWA enters Interlocal Agreements with other local governments to coordinate projects and services and reduce overlapping expense. Many of these agreements relate to current capital improvement projects. Where another local government reimburses GLWA for direct expenses associated with a capital improvement project financed using improvement and extension funds, those reimbursements received under the agreement are transferred back to the Improvement and Extension fund.



he Monthly Capital Improvement Plan Financial Summary includes the following.

- 1. Water System Capital Improvement Plan Spend Incurred to date
- 2. Sewer System Capital Improvement Plan Spend Incurred to date

Capital Improvement Plan Financial Summary

Great Lakes Water Authority (GLWA) capital improvement projects generally span two or more years due to size and complexity. Therefore, the GLWA Board of Directors adopts a five-year capital improvement plan (CIP). The CIP is a five-year, rolling plan which is updated annually and formally adopted by the GLWA Board of Directors. In addition, 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.

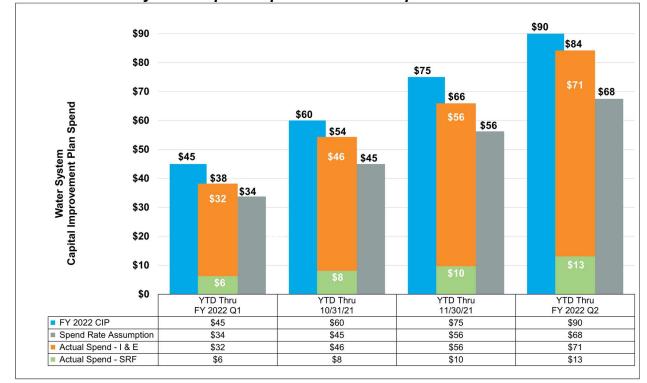
This report presents quarterly and monthly CIP spending against the prorated CIP in total and the CIP adjusted for the SRA. The prorated CIP is calculated by dividing the total fiscal year 2022 board-approved CIP plan by twelve equal months. It should be noted that for operational purposes, GLWA utilizes Primavera P6 for refined monthly projections for cash management and project management.

Beginning January 1, 2021, GLWA has intentionally depleted Bond funds and has moved to solely using I&E and State Revolving Loans to fund CIP expenditures to lower the cost of debt. It is expected that the I&E funds will be sufficient to fund the capital program through FY 2022 including an allowance to provide flexibility in the timing of future bond issues.



Chart 1 – Water System Capital Improvement Plan Spend Incurred to Date

As of December 2021, the Water system incurred over \$84 million of construction costs to date. This is 94% of the fiscal year 2022 CIP through December and 125% of the financial plan which is labeled as the FY 2022 CIP w/SRA in the chart below.



28

Chart 1 – Water System Capital Improvement Plan Spend Incurred to Date



Chart 2 – Sewer System Capital Improvement Plan Spend Incurred to Date

As of December 2021, the Sewer system incurred over \$32 million of construction costs to date. This is 61% of the fiscal year 2022 CIP through December and 79% of the financial plan which is labeled as the FY 2022 CIP w/SRA in the chart below.







This report includes the following.

- 1. Master Bond Ordinance (MBO) Required Transfers to Accounts Held by GLWA
- 2. Master Bond Ordinance (MBO) Required Transfers to Accounts Held by DWSD

MBO Transfers to Accounts Held by GLWA

GLWA Transfers: The Treasury team completes required MBO transfers on the first business day of each month. These transfers are completed in accordance with the Great Lakes Water Authority (GLWA) and Detroit Water & Sewerage Department (DWSD) budgets as approved and adopted by the GLWA Board of Directors and DWSD Board of Water Commissioners annually.

Monthly transfers for Operations & Maintenance (O&M), Pension, and Water Residential Assistance Program (WRAP) are one-twelfth of the annual, budgeted amount. Budget stabilization should not require additional funding due to new, baseline funding levels established as part of the June 2018 Memorandum of Understanding but is included to reflect historical activity. Transfers to the Extraordinary Repair & Replacement (ER&R) fund are completed annually based on budget and year-end fund status.

Table 1 – GLWA FY 2022 <u>Water</u> **MBO Transfers** reflects the required transfers for FY 2022 completed through December 1, 2021. MBO transfers for water totaling \$81.5 million have been transferred to GLWA accounts.

Table 2 – GLWA FY 2022 <u>Sewer</u> **MBO Transfers** reflects the required transfers for FY 2022 completed through December 1, 2021. MBO transfers for sewer totaling \$105.3 million have been transferred to GLWA accounts.

Table 3 – GLWA MBO Transfer History reflects historical transfers for FY 2016 through FY 2022 to date.



Table 1 – GLWA FY 2022 Water MBO Transfers

| | | | | WATER | | | | |
|----------------|--------|-----------------------------|------------------------|-----------------------|-------------|---|--|--------------|
| | | Operations & Maintenance | Pension Sub Account | Pension Obligation | WRAP | Budget Stabilization (For Benefit of DWSD) | Extraordinary Repair & Replacement (ER&R) | Total Water |
| FY 2022 | - - | 44 004 400 | | | | | · | £40.047.044 |
| July 2021 | \$ | 11,994,483 | \$504,000 | \$921,308 | \$198,050 | - | - | \$13,617,841 |
| August 2021 | | 11,994,483 | 504,000 | 921,308 | 198,050 | - | - | 13,617,841 |
| September 2021 | | 11,994,483 | 504,000 | 831,488 | 198,050 | - | - | 13,528,021 |
| October 2021 | | 11,994,483 | 504,000 | 921,308 | 198,050 | - | - | 13,617,841 |
| November 2021 | | 11,994,483 | 504,000 | 861,308 | 198,050 | - | - | 13,557,841 |
| December 2021 | | 11,994,483 | 504,000 | 891,308 | 198,050 | - | - | 13,587,841 |
| Total FY 2022 | \$ | 71,966,898 | \$3,024,000 | \$5,348,028 | \$1,188,300 | \$ - | \$ - | \$81,527,226 |

Table 2 – GLWA FY 2022 Sewer MBO Transfers Sewer

| | | | SEWER | | | | |
|----------------|-------------|-----------------|-------------|-------------|-------------------------|---------------------------|---------------|
| | | | _ | | Budget Stabilization | Extraordinary Repair & | |
| | Operations | & Pension | Pension | | (For Benefit of | Replacement | |
| | Maintenanc | e Sub Account | Obligation | WRAP | DWSD) | (ER&R) | Total Sewer |
| FY 2022 | | | | | | | |
| July 2021 | \$ 15,108,3 | 17 \$902,000 | \$1,223,950 | \$322,392 | - | - | \$17,556,659 |
| August 2021 | 15,108,3 | 17 902,000 | 1,223,950 | 322,392 | - | - | 17,556,659 |
| September 2021 | 15,108,3 | 17 902,000 | 1,223,950 | 322,392 | - | - | 17,556,659 |
| October 2021 | 15,108,3 | 17 902,000 | 1,223,950 | 322,392 | - | - | 17,556,659 |
| November 2021 | 15,108,3 | 17 902,000 | 1,223,950 | 322,392 | - | - | 17,556,659 |
| December 2021 | 15,108,3 | 17 902,000 | 1,223,950 | 322,392 | - | - | 17,556,659 |
| Total FY 2022 | \$90,649, | 902 \$5,412,000 | \$7,343,700 | \$1,934,352 | \$- | \$ - | \$105,339,954 |
| | | | | | | | |

Table 3 – GLWA MBO Transfer History GLWA MBO Transfer History

| | | GLV | | | | | |
|--|--|---|---|---|---|---|---|
| | | | WATER | | | | |
| | | | | | Budget | Extraordinary | |
| | | | <u> </u> | | Stabilization | Repair & | |
| | Operations & | Pension | Pension | | (For Benefit of | Replacement | - |
| | Maintenance | Sub Account | Obligation | WRAP | DWSD) | <u>(ER&R)</u> | Total Water |
| Total FY 2016 | \$71,052,000 | \$6,037,100 | \$10,297,200 | \$1,983,300 | \$2,326,900 | \$606,000 | \$92,302,500 |
| Total FY 2017 | 111,879,600 | 6,037,200 | 10,297,200 | 2,077,200 | 360,000 | - | 130,651,200 |
| Total FY 2018 | 121,562,604 | 6,048,000 | 10,695,696 | 2,159,400 | - | - | 140,465,700 |
| Total FY 2019 | 121,562,604 | 6,048,000 | 10,695,696 | 2,061,000 | - | - | 140,367,300 |
| Total FY 2020 | 126,840,204 | 6,048,000 | 10,695,683 | 1,980,804 | Ξ. | - | 145,564,691 |
| Total FY 2021 | 134,127,300 | 6,048,000 | 10,695,700 | 2,324,200 | - | - | 153,195,200 |
| Total FY 2022 (6 months) | 71,966,898 | 3,024,000 | 5,348,028 | 1,188,300 | - | - | 81,527,226 |
| Life to Date | \$758,991,210 | \$39,290,300 | \$68,725,203 | \$13,774,204 | \$2,686,900 | \$606,000 | \$884,073,817 |
| | | | | | | | |
| | | | SEWER | | | | |
| | | | | | Budget | Extraordinary | |
| | | | | | • | | |
| | | | | | Stabilization | Repair & | |
| | Operations & | Pension | Pension | | Stabilization (For Benefit of | Repair & Replacement | |
| | Maintenance | Sub Account | Obligation | WRAP | Stabilization (For Benefit of <u>DWSD)</u> | Repair & Replacement (ER&R) | Total Sewer |
| Total FY 2016 | 11. CONDUCTORESIDE 11.0.0 ESCO | | | <u>WRAP</u> \$2,523,400 | Stabilization (For Benefit of | Repair & Replacement | |
| Total FY 2016 Total FY 2017 | Maintenance | Sub Account | Obligation | | Stabilization (For Benefit of <u>DWSD)</u> | Repair & Replacement (ER&R) | |
| | <u>Maintenance</u> \$100,865,600 | Sub Account \$10,838,400 | Obligation \$14,025,800 | \$2,523,400 | Stabilization (For Benefit of <u>DWSD)</u> \$5,591,700 | Repair & Replacement (ER&R) | \$134,624,500 |
| Total FY 2017 | <u>Maintenance</u> \$100,865,600 175,858,800 | Sub Account \$10,838,400 10,838,400 | Obligation \$14,025,800 14,026,800 | \$2,523,400 2,654,400 | Stabilization (For Benefit of <u>DWSD)</u> \$5,591,700 | Repair & Replacement (ER&R) \$779,600 | \$134,624,500 206,032,800 |
| Total FY 2017 Total FY 2018 | <u>Maintenance</u> \$100,865,600 175,858,800 191,079,396 | <u>Sub Account</u> \$10,838,400 10,838,400 10,824,000 | <u>Obligation</u> \$14,025,800 14,026,800 14,687,496 | \$2,523,400 2,654,400 2,760,804 | Stabilization (For Benefit of <u>DWSD)</u> \$5,591,700 | Repair & Replacement (ER&R) \$779,600 - | \$134,624,500 206,032,800 219,351,696 |
| Total FY 2017 Total FY 2018 Total FY 2019 | <u>Maintenance</u> \$100,865,600 175,858,800 191,079,396 191,079,396 | <u>Sub Account</u> \$10,838,400 10,838,400 10,824,000 10,824,000 | <u>Obligation</u> \$14,025,800 14,026,800 14,687,496 14,687,496 | \$2,523,400 2,654,400 2,760,804 2,870,992 | Stabilization (For Benefit of <u>DWSD)</u> \$5,591,700 | Repair & Replacement (ER&R) \$779,600 - | \$134,624,500 206,032,800 219,351,696 219,461,884 |
| Total FY 2017 Total FY 2018 Total FY 2019 Total FY 2020 | Maintenance \$100,865,600 175,858,800 191,079,396 191,079,396 181,925,800 | Sub Account \$10,838,400 10,838,400 10,824,000 10,824,000 10,824,000 | <u>Obligation</u> \$14,025,800 14,026,800 14,687,496 14,687,496 14,687,517 | \$2,523,400 2,654,400 2,760,804 2,870,992 2,887,300 | Stabilization (For Benefit of <u>DWSD)</u> \$5,591,700 | Repair & Replacement <u>(ER&R)</u> \$779,600 - - - - | \$134,624,500 206,032,800 219,351,696 219,461,884 210,324,617 |

MBO Required and Lease Payment Transfers to DWSD

DWSD Transfers: The GLWA Treasury team completes the required MBO transfers on the first business day of each month. These transfers are completed in accordance with the GLWA and DWSD budgets as approved and adopted by the GLWA Board of Directors and DWSD Board of Water Commissioners annually. Transfers are coordinated with other areas of GLWA Financial Services in advance of the first business day of each month. GLWA Treasury sends confirmation of transfers made to DWSD Treasury.

Monthly transfers for O&M and O&M Pension are one-twelfth of the annual, budgeted amount. The annual lease payment, as stated in the Water & Sewer Lease Agreements, is \$22,500,000 for Water and \$27,500,000 for Sewer. The monthly lease transfer is one-twelfth of the amount as stated in the Lease agreements unless otherwise designated by DWSD. Per Section 3.5 of the Lease, the Lease payment may be used for (a) bond principal and interest for Local System Improvements, (b) bond principal and interest for the City's share of common-to-all System Improvements, and (c) Local System improvements.

Table 4 – DWSD FY 2022 <u>Water</u> **MBO Transfers** reflects the required transfers for FY 2022 completed through December 1, 2021. MBO transfers for Water totaling \$23.3 million have been transferred to accounts held by DWSD. For FY 2022, DWSD originally requested that \$6,690,600 of the lease payment be utilized to offset a portion of debt service. Beginning with the October transfers, DWSD amended budget required an additional portion of the lease payment be directed to offset debt service. The total offset for FY 2022 is now \$14,277,800.

Table 5 – DWSD FY 2022 <u>Sewer</u> **MBO Transfers** reflects the required transfers for FY 2022 completed through December 1, 2021. MBO transfers for Sewer totaling \$47.2 million have been transferred to accounts held by DWSD.

Table 6 – DWSD WaterMBO and Lease Payment Transfer Historyreflects historical transfers for FY 2016 through FY 2022 to date.

Table 7 – DWSD SewerMBO and Lease Payment Transfer Historyreflects historical transfers for FY 2016 through FY 2021 to date.



Table 4 – DWSD FY 2022 <u>Water</u> MBO Transfers

| | WA | TER | | |
|----------------------|---------------------------------|-------------|-----------------------------|--------------------|
| EV 2022 | Operations & <u>Maintenance</u> | Pension | Lease Payment (I&E Fund) | <u>Total Water</u> |
| FY 2022 July 2021 | \$2,887,383 | \$356,000 | \$1,317,450 | \$4,560,833 |
| August 2021 | 2,887,383 | 356,000 | 1,317,450 | 4,560,833 |
| September 2021 | 2,887,383 | 356,000 | 1,317,450 | 4,560,833 |
| October 2021 | 2,369,650 | 356,000 | 479,983 | 3,205,633 |
| November 2021 | 2,369,650 | 356,000 | 479,983 | 3,205,633 |
| December 2021 | 2,369,650 | 356,000 | 479,983 | 3,205,633 |
| Total FY 2022 | \$15,771,099 | \$2,136,000 | \$5,392,299 | \$23,299,398 |

Table 5 – DWSD FY 2022 <u>Sewer</u> MBO Transfers

| | SE | WER | | |
|----------------|---------------------------------|-------------|--|--------------------|
| | Operations & <u>Maintenance</u> | Pension | Lease Payment <u>(I&E Fund)</u> | <u>Total Sewer</u> |
| FY 2022 | | | | |
| July 2021 | \$5,769,417 | \$238,000 | \$2,291,667 | \$8,299,084 |
| August 2021 | 5,769,417 | 238,000 | 2,291,667 | 8,299,084 |
| September 2021 | 5,769,417 | 238,000 | 2,291,667 | 8,299,084 |
| October 2021 | 4,888,083 | 238,000 | 2,291,667 | 7,417,750 |
| November 2021 | 4,888,083 | 238,000 | 2,291,667 | 7,417,750 |
| December 2021 | 4,888,083 | 238,000 | 2,291,667 | 7,417,750 |
| Total FY 2022 | \$31,972,500 | \$1,428,000 | \$13,750,002 | \$47,150,502 |



Table 6 – DWSD <u>Water</u> MBO and Lease Payment Transfer History

| Transfers to DWSD | | | | | | | |
|--|--------------|--------------|---------------|---|--|--|--|
| | | WATER | | | | | |
| | | Operations & | | | | | |
| | Operations & | Maintenance | Lease Payment | | | | |
| | Maintenance | Pension | (I&E Fund) | Total Water | | | |
| FY 2016 * | | | | Second and a second a second at the | | | |
| MBO/Lease Requirement | \$26,185,600 | \$4,262,700 | \$22,500,000 | \$52,948,300 | | | |
| Offset to Debt Service | - | - | (2,326,900) | (2,326,900) | | | |
| Net MBO Transfer | 26,185,600 | 4,262,700 | 20,173,100 | 50,621,400 | | | |
| FY 2017 | | | | | | | |
| MBO/Lease Requirement | 33,596,400 | 4,262,400 | 22,500,000 | 60,358,800 | | | |
| Offset to Debt Service | - | - | | - | | | |
| Net MBO Transfer | 33,596,400 | 4,262,400 | 22,500,000 | 60,358,800 | | | |
| FY 2018 | | | | | | | |
| MBO/Lease Requirement | 35,059,704 | 4,272,000 | 22,500,000 | 61,831,704 | | | |
| Offset to Debt Service | - | - | (1,875,000) | (1,875,000) | | | |
| Net MBO Transfer | 35,059,704 | 4,272,000 | 20,625,000 | 59,956,704 | | | |
| FY 2019 | | | | | | | |
| MBO/Lease Requirement | 35,484,300 | 4,272,000 | 22,500,000 | 62,256,300 | | | |
| Offset to Debt Service | | - | (3,972,200) | (3,972,200) | | | |
| Net MBO Transfer | 35,484,300 | 4,272,000 | 18,527,800 | 58,284,100 | | | |
| FY 2020 | | | | | | | |
| MBO/Lease Requirement | 34,662,400 | 4,272,000 | 22,500,000 | 61,434,400 | | | |
| Offset to Debt Service | - | - | (3,548,000) | (3,548,000) | | | |
| Net MBO Transfer FY 2021 | 34,662,400 | 4,272,000 | 18,952,000 | 57,886,400 | | | |
| | 25 922 000 | 4 272 000 | 22 500 000 | 62,605,900 | | | |
| MBO/Lease Requirement | 35,833,900 | 4,272,000 | 22,500,000 | | | | |
| Offset to Debt Service Net MBO Transfer | | | (8,278,300) | (8,278,300) | | | |
| | 35,833,900 | 4,272,000 | 14,221,700 | 54,327,600 | | | |
| FY 2022 (6 months) | 15 771 000 | 0.406.000 | 11 250 000 | 20 157 000 | | | |
| MBO/Lease Requirement | 15,771,099 | 2,136,000 | 11,250,000 | 29,157,099 | | | |
| Offset to Debt Service | - | - | (5,857,701) | (5,857,701) | | | |
| Net MBO Transfer | 15,771,099 | 2,136,000 | 5,392,299 | 23,299,398 | | | |
| Life-to-Date | 040 500 400 | 07 740 400 | 140.000 | | | | |
| MBO/Lease Requirement | 216,593,403 | 27,749,100 | 146,250,000 | 390,592,503 | | | |
| Offsets | - | - | (25,858,101) | (25,858,101) | | | |
| Total Water | 216,593,403 | 27,749,100 | 120,391,899 | 364,734,402 | | | |



| | | SEWER | | |
|---|-----------------------------|--|-----------------------------|--------------|
| | Operations & Maintenance | Operations & Maintenance Pension | Lease Payment (I&E Fund) | Total Sewer |
| FY 2016 * | | | · · _ | |
| MBO/Lease Requirement | \$19,774,300 | \$2,861,800 | \$27,500,000 | \$50,136,100 |
| Offset to Debt Service | | | (19,991,500) | (19,991,500) |
| Total MBO Transfer FY 2017 | 19,774,300 | 2,861,800 | 7,508,500 | 30,144,600 |
| MBO/Lease Requirement Offset to Debt Service | 41,535,600 | 2,862,000 | 27,500,000 | 71,897,600 |
| Total MBO Transfer FY 2018 | 41,535,600 | 2,862,000 | 27,500,000 | 71,897,600 |
| MBO/Lease Requirement | 60,517,992 | 2,856,000 | 27,500,000 | 90,873,992 |
| Offset to Debt Service | - | - | (9,166,664) | (9,166,664) |
| Total MBO Transfer FY 2019 | 60,517,992 | 2,856,000 | 18,333,336 | 81,707,328 |
| MBO/Lease Requirement | 56,767,920 | 2,856,000 | 27,500,000 | 87,123,920 |
| Offset to Debt Service | - | - | (4,415,000) | (4,415,000) |
| Total MBO Transfer FY 2020 | 56,767,920 | 2,856,000 | 23,085,000 | 82,708,920 |
| MBO/Lease Requirement | 62,343,500 | 2,856,000 | 27,500,000 | 92,699,500 |
| Offset to address shortfall | (7,100,000) | - | - | (7,100,000) |
| Offset to Debt Service | | - | (5,032,700) | (5,032,700) |
| Total MBO Transfer FY 2021 | 55,243,500 | 2,856,000 | 22,467,300 | 80,566,800 |
| MBO/Lease Requirement | 69,915,700 | 2,856,000 | 27,500,000 | 100,271,700 |
| Offset to Debt Service | - | - | (3,257,200) | (3,257,200) |
| Total MBO Transfer FY 2022 (6 months) | 69,915,700 | 2,856,000 | 24,242,800 | 97,014,500 |
| MBO/Lease Requirement | 31,972,500 | 1,428,000 | 13,750,002 | 47,150,502 |
| Offset to Debt Service | - | - | - | - |
| Total MBO Transfer | 31,972,500 | 1,428,000 | 13,750,002 | 47,150,502 |
| Life-to-Date | no os filinais do filindo | | | |
| MBO/Lease Requirement | 342,827,512 | 18,575,800 | 178,750,002 | 540,153,314 |
| Offsets | (7,100,000) | - | (41,863,064) | (48,963,064) |
| Total Sewer | 335,727,512 | 18,575,800 | 136,886,938 | 491,190,250 |

Table 7 – DWSD <u>Sewer</u> MBO and Lease Payment Transfer History

* Note: FY 2016 lease transfer amounts shown do not incude prepayment on the lease amount for the 6 months period before bifurcation.



This report includes the following:

- 1. Monthly Cash Balances Compared to Investment Income
- 2. Cash Balance Detail

Monthly Cash Balances Compared to Investment Income

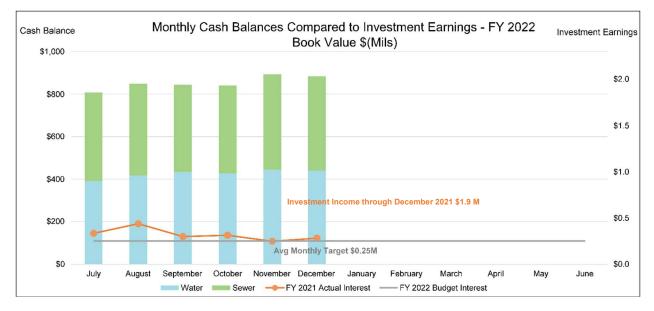
GLWA's investment holdings comply with the requirements of Public Act 20 of 1948, as amended and the GLWA Investment Policy. The cash balances shown in this report include bank deposits, money market funds, a local government investment pool, U.S. Treasuries, Federal Agencies, and commercial paper.

Cash and investment balances change each month based on Master Bond Ordinance (MBO) funding requirements, operational needs, capital spending pace, and mandatory debt payments. Investment income fluctuates monthly based on cash and investment balances as well as market conditions and investment strategy. For the month of December 2021, GLWA earned investment income of \$0.3 million and the cumulative FY 2022 earnings through December 2021 is \$1.9 million. Total investment income reported includes earnings from revenue requirement funds as well as construction bond funds.

GLWA continues to refine cash flows and work with its investment advisor to identify strategies to maximize future investment income while meeting the objectives of safety and liquidity.



Chart 1 – Monthly Cash Balances Compared to Investment Income – Through December 2021



| \$(Mils) | July | August | September | October | November | December | January | February | March | April | May | June |
|-------------------|-------|--------|-----------|---------|----------|----------|---------|----------|-------|-------|-----|------|
| Water | \$391 | \$416 | \$433 | \$426 | \$443 | \$439 | - | - | - | - | - | - |
| Sewer | \$417 | \$432 | \$410 | \$414 | \$450 | \$445 | - | - | - | - | - | - |
| Total | \$808 | \$848 | \$844 | \$840 | \$893 | \$884 | - | - | | | - | - |
| Investment Income | \$0.3 | \$0.4 | \$0.3 | \$0.3 | \$0.2 | \$0.3 | - | - | - | | - | - |



Cash Balance Detail

Funds Held By GLWA: GLWA cash balances are held in accounts as defined by the Master Bond Ordinance. The accounts are funded by monthly transfers, as stipulated in the MBO, on the first business day of each month. The "operations and maintenance" (O&M) fund transfer amounts are based upon the annual O&M budget approved by the GLWA Board of Directors for the regional systems and by the Board of Water Commissioners for the Detroit Water & Sewerage Department (DWSD) local system budgets. The water and sewer funds held by GLWA and their purpose, as defined by the MBO, are listed below.

Funds Held Within Trust:

- Receiving all retail and wholesale revenues collected which are distributed in subsequent month(s)
- Debt Service funds set aside for debt service and debt reserve requirements
- Pension Obligation funds set aside to meet GLWA's annual funding requirements for the legacy General Retirement System Pension Plan
- Water Residential Assistance Program (WRAP) funds set aside to be used to provide financial assistance to qualified residents throughout the local and regional water system as directed by program guidelines
- Budget Stabilization funds held by GLWA on behalf of DWSD that can be applied against shortfalls in retail revenues
- Emergency Repair & Replacement (ER&R) funds set aside to pay the costs for major unanticipated repairs and replacements of the local and regional systems
- Improvement & Extension (I&E) funds set aside to be used for the improvements, enlargements, and extensions of the regional system

Funds Held Outside Trust:

- Bond Proceeds funds raised from debt issuance used for costs of repairs, construction, and improvements of the regional system
- Operations & Maintenance (O&M) funds used to meet the operational and maintenance requirements of the regional system
- Other retainage funds held on behalf of contractors and security deposit funds held on behalf of the City of Flint

A <u>chart</u> depicting the follow of funds is online at glwater.org as well as the <u>MBO</u> documents.



Chart 2 – Cash Balances - Water Funds as of December 2021 - Shows the allocation of the balance among the different categories defined in the section above. The total cash balance for Water Funds as of December 31, 2021 is \$439 million. The allocation of balances among the I&E, bond proceeds, and debt service reserve funds reflects GLWA's commitment to funding capital improvements and meeting debt reserve requirements while simultaneously increasing I&E resources to fund pay-as-you-go capital funding to reduce long-term debt in the future.

It should be noted existing proceeds from revenue bonds are depleted. This means that all capital projects will now be funded with Improvement & Extension (I&E) funds, except for SRF funded projects. It is expected that the I&E funds supplemented with SRF low-interest loan funding will be sufficient to fund the capital program through FY 2022 including an allowance to provide flexibility in the timing of future bond issues.

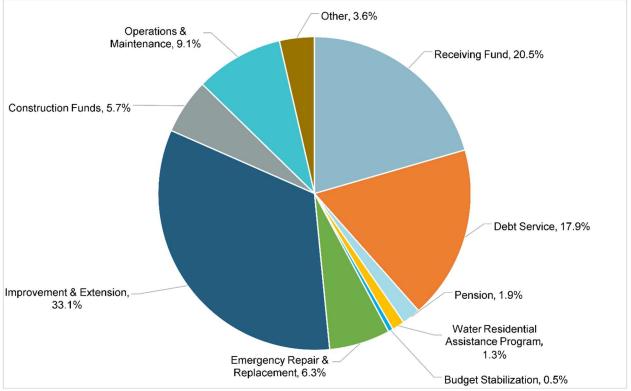


Chart 2 – Cash Balances - Water Funds as of December 2021

Note: Due to rounding totals may not equal 100%.



Chart 3 – Cash Balances - Sewer Funds as of December 2021 - Shows the allocation of the balance among the different funds defined in the section above. The total cash balance for Sewer Funds as of December 31, 2021 is \$445 million. Like the Water Funds, the allocation of balances among the I&E, bond proceeds, and debt service reserve funds reflects GLWA's commitment to funding capital improvements and meeting debt reserve requirements while simultaneously increasing I&E resources to fund pay-as-you-go capital funding to reduce long-term debt in the future.

It should be noted existing proceeds from revenue bonds are depleted. This means that all capital projects will now be funded with Improvement & Extension (I&E) funds, except for SRF funded projects. It is expected that the I&E funds supplemented with SRF low-interest loan funding will be sufficient to fund the capital program through FY 2022 including an allowance to provide flexibility in the timing of future bond issues.

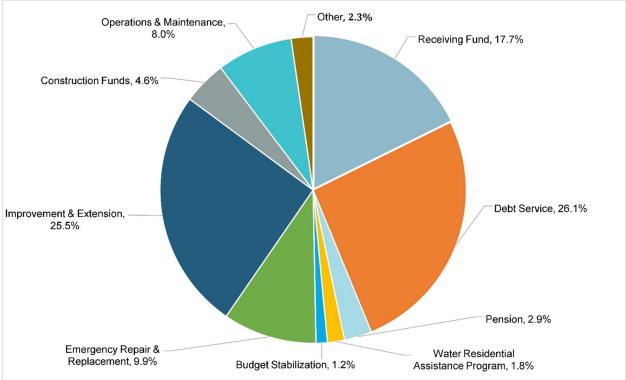


Chart 3 – Cash Balances - Sewer Funds as of December 2021

Note: Due to rounding totals may not equal 100%.



Retail Revenues, Receivables, and Collections: Pursuant to the terms of the lease agreement between the City of Detroit and the Great Lakes Water Authority (GLWA), the Detroit Water & Sewerage Department (DWSD) serves as GLWA's agent for billing activities for the City of Detroit retail customer class. All water and sewer service collections from DWSD customers are deposited in a trust account and are administered in accordance with the GLWA Master Bond Ordinance.

The Monthly Retail Revenues, Receivables, & Collections Report includes the following.

- 1. DWSD Retail Water Revenue Billings and Collections
- 2. DWSD Retail Sewer Revenue Billings and Collections
- 3. DWSD Retail Water & Sewer System Accounts Receivable Aging Report

Note: Wholesale customer revenues are billed by the Great Lakes Water Authority.

DWSD Retail Water Billings and Collections

Retail Billing Basis: DWSD bills retail customers monthly. Customers are billed throughout the month in cycles based on a meter reading schedule beginning with residential accounts and ending with commercial and industrial customers.

Table 1 - DWSD Retail Billings shows the FY 2022 water usage and billed revenue which are provided by DWSD staff. As of December 31, 2021, the DWSD usage was at 108.38% of the budget and billed revenue was at 100.08% of budget.

DWSD Retail Water Collections: The collections represent payments made by DWSD retail customers. These receipts are deposited directly into a lockbox with a trustee for administration of the flow of funds defined by GLWA's Master Bond Ordinance.

Table 2 - Retail Water Collections shows collections by month for the past 12 months compared to collections for the prior year as well as the calculated difference between the periods.

| RETAIL WATER CUSTOMERS | | | | | | | | | |
|------------------------|----------------------|----------------------|----------------------|--------------------------|----------------------|----------------------|----------------------|-----------------------------|--|
| | FY 2022 - Orig | ginal Budget | FY 2022 | - Actual | FY 2022 - ' | Variance | FY 2021 - Actuals | | |
| Month (1) | <u>Volume</u> Mcf | <u>Revenue</u> \$ | <u>Volume</u> Mcf | <u>Revenue (2)</u> \$ | <u>Volume</u> Mcf | <u>Revenue</u> \$ | <u>Volume</u> Mcf | <u>Revenue</u> <i>\$</i> | |
| July | 245,000 | 9,963,800 | 266,704 | 10,064,683 | 21,704 | 100,883 | 265,796 | 9,747,518 | |
| August | 235,000 | 9,697,500 | 264,644 | 9,994,589 | 29,644 | 297,089 | 250,308 | 9,378,385 | |
| September | 210,000 | 9,032,500 | 232,348 | 9,169,300 | 22,348 | 136,800 | 218,840 | 8,544,457 | |
| October | 195,000 | 8,633,500 | 204,290 | 8,422,092 | 9,290 | (211,408) | 197,362 | 7,978,833 | |
| November | 195,000 | 8,633,500 | 209,830 | 8,544,611 | 14,830 | (88,889) | 194,648 | 7,952,436 | |
| December | 195,000 | 8,633,500 | 204,072 | 8,442,152 | 9,072 | (191,348) | 197,125 | 7,985,955 | |
| January | 190,000 | 8,500,500 | | | | | 190,289 | 7,827,536 | |
| February | 190,000 | 8,500,500 | | | | | 191,180 | 7,895,496 | |
| March | 200,080 | 8,768,700 | | | | | 205,631 | 8,242,563 | |
| April | 210,000 | 9,032,500 | | | | | 214,288 | 8,438,333 | |
| May | 210,000 | 9,032,500 | | | | | 214,232 | 8,519,154 | |
| June | 240,000 | 9,830,500 | | | | | 243,301 | 9,249,694 | |
| Total | 2,515,080 | 108,259,500 | 1,381,888 | 54,637,427 | 106,888 | 43,127 | 2,583,000 | 101,760,360 | |
| Subtotals ytd | 1,275,000 | 54,594,300 | 1,381,888 | 54,637,427 | 106,888 | 43,127 | | | |
| Achievement of B | udget | | 108.38% | 100.08% | | | | | |

Table 1 – DWSD Retail <u>Water</u> Billing

(1) Figures are stated as "Service Months"; that is, July figures represent bills issued in August, etc.

(2) Retail Revenues include Miscellaneous Revenues and Penalties

Table 2 – DWSD Retail <u>Water</u> Collections

| Water | | | | | | | | | |
|---------------------------|--------------|------------|-------------|---------|--|--|--|--|--|
| Month | Current Year | Prior Year | Variance | Ratio | | | | | |
| January | 7,884,889 | 9,076,091 | (1,191,202) | -13.12% | | | | | |
| February | 6,426,553 | 8,281,985 | (1,855,432) | -22.40% | | | | | |
| March | 8,458,827 | 6,948,308 | 1,510,519 | 21.74% | | | | | |
| April | 7,536,272 | 5,956,105 | 1,580,167 | 26.53% | | | | | |
| Мау | 7,365,204 | 8,109,469 | (744,265) | -9.18% | | | | | |
| June | 8,917,831 | 7,821,791 | 1,096,040 | 14.01% | | | | | |
| July | 8,387,705 | 8,017,490 | 370,215 | 4.62% | | | | | |
| August | 8,588,507 | 7,135,456 | 1,453,051 | 20.36% | | | | | |
| September | 8,041,683 | 9,031,966 | (990,283) | -10.96% | | | | | |
| October | 8,512,614 | 9,079,199 | (566,585) | -6.24% | | | | | |
| November | 7,926,331 | 10,803,009 | (2,876,678) | -26.63% | | | | | |
| December | 8,121,586 | 7,409,888 | 711,698 | 9.60% | | | | | |
| Rolling, 12-Month Total | 96,168,002 | 97,670,757 | | | | | | | |
| Rolling, 12-Month Average | 8,014,000 | 8,139,230 | | | | | | | |



DWSD Retail Sewer Billings and Collections

Retail billing basis: DWSD bills retail customers monthly. Customers are billed throughout the month in cycles based on a meter reading schedule beginning with residential accounts and ending with commercial and industrial customers.

Table 3 - DWSD Retail Sewer Billings shows the FY 2022 sewer billed revenue which are provided by DWSD staff. As of December 31, 2021, the DWSD usage was at 103.59% of the budget and billed revenue was at 99.82% of budget.

DWSD Retail Sewer Collections: The collections represent payments made by DWSD retail customers. These receipts are deposited directly into a lockbox with a trustee for administration of the flow of funds defined by GLWA's Master Bond Ordinance.

Table 4 – DWSD Retail Sewer Collections shows collections by month for the past 12 months compared to collections for the prior year as well as the calculated difference between the periods.

| RETAIL SEWER CUSTOMERS | | | | | | | | | |
|------------------------|---------------------------|----------------|-----------|------------------|----------|-------------|-------------------|----------------|--|
| | FY 2022 - Original Budget | | FY 2022 | FY 2022 - Actual | | /ariance | FY 2021 - Actuals | | |
| Month (1) | <u>Volume</u> | <u>Revenue</u> | Volume | Revenue (2) | Volume | Revenue | <u>Volume</u> | <u>Revenue</u> | |
| | Mcf | \$ | Mcf | \$ | Mcf | \$ | Mcf | \$ | |
| July | 233,100 | 30,779,300 | 219,791 | 29,462,804 | (13,309) | (1,316,496) | 252,929 | 29,802,377 | |
| August | 225,700 | 30,357,000 | 249,522 | 31,231,624 | 23,822 | 874,624 | 240,390 | 29,261,344 | |
| September | 198,500 | 28,805,000 | 215,748 | 29,401,234 | 17,248 | 596,234 | 206,880 | 27,232,400 | |
| October | 186,000 | 28,091,700 | 190,483 | 27,936,280 | 4,483 | (155,420) | 188,816 | 26,230,683 | |
| November | 186,000 | 28,091,700 | 194,135 | 28,032,939 | 8,135 | (58,761) | 184,240 | 25,933,888 | |
| December | 186,000 | 28,091,700 | 189,283 | 27,836,982 | 3,283 | (254,718) | 187,397 | 26,628,891 | |
| January | 178,700 | 27,675,200 | | | | | 179,115 | 26,098,738 | |
| February | 184,600 | 28,011,800 | | | | | 185,696 | 26,370,674 | |
| March | 192,030 | 28,435,800 | | | | | 197,486 | 27,090,940 | |
| April | 199,600 | 28,867,800 | | | | | 203,684 | 27,447,662 | |
| May | 200,100 | 28,896,300 | | | | | 204,107 | 27,765,537 | |
| June | 228,500 | 30,516,800 | | | | | 231,627 | 29,058,129 | |
| Total | 2,398,830 | 346,620,100 | 1,258,962 | 173,901,863 | 43,662 | (314,537) | 2,462,367 | 328,921,263 | |
| Subtotals ytd | 1,215,300 | 174,216,400 | 1,258,962 | 173,901,863 | | (314,537) | 24 X | 266 02 | |
| Achievement of | Budget/Goal | | 103.59% | 99.82% | | | | | |

Table 3 - DWSD Retail Sewer Billings

(1) Figures are stated as "Service Months"; that is, July figures represent bills issued in August, etc.

(2) Retail Revenues include Miscellaneous Revenues and Penalties



Table 4 – DWSD Retail Sewer Collections

| Sewer | | | | | | | | | |
|---------------------------|--------------|-------------|-------------|---------|--|--|--|--|--|
| Month | Current Year | Prior Year | Variance | Ratio | | | | | |
| January | 22,057,276 | 23,512,702 | (1,455,426) | -6.19% | | | | | |
| February | 22,777,467 | 22,682,982 | 94,485 | 0.42% | | | | | |
| March | 25,002,508 | 19,325,377 | 5,677,131 | 29.38% | | | | | |
| April | 21,196,170 | 17,105,146 | 4,091,024 | 23.92% | | | | | |
| Мау | 21,888,687 | 23,639,652 | (1,750,965) | -7.41% | | | | | |
| June | 32,508,249 | 22,558,827 | 9,949,422 | 44.10% | | | | | |
| July | 24,185,252 | 20,652,159 | 3,533,093 | 17.11% | | | | | |
| August | 25,036,198 | 22,395,220 | 2,640,978 | 11.79% | | | | | |
| September | 22,635,796 | 26,463,387 | (3,827,591) | -14.46% | | | | | |
| October | 25,119,240 | 26,683,109 | (1,563,869) | -5.86% | | | | | |
| November | 23,505,249 | 28,730,139 | (5,224,890) | -18.19% | | | | | |
| December | 24,880,743 | 22,856,217 | 2,024,526 | 8.86% | | | | | |
| Rolling 12-Month Total | 290,792,835 | 276,604,917 | | | | | | | |
| Rolling, 12-Month Average | 24,232,736 | 23,050,410 | | | | | | | |



DWSD Retail Water and Sewer Accounts Receivable Aging Report

The DWSD detailed accounts receivable aging is categorized by customer category.

Table 5 is a summary of the total, current and non-current Water and Sewer receivables by category as of December 31, 2021 with comparative totals from December 31, 2020. This table does not include past due accounts that have been transferred to the City of Detroit for collection as tax liens.

DWSD regularly adjusts the bad debt allowance to cover the past due balance over 180 days. To the extent this allowance is adjusted, and bad debt expense is recognized in the DWSD budget, it does not impact GLWA.

 Table 5 – DWSD Retail Accounts Receivable Aging Report – Water & Sewer

 Combined

| Sales Class | # of Accounts | Avg. Balance | Current | > 30 Days | > 60 Days | > 180 Days | Balance |
|---------------------------------|---------------|--------------|-------------------------------------|----------------------------|--|--|------------------------------|
| Residential | 209,760 | \$ 667.25 | \$ 13,259,000 \$ 9.5% | 7,812,000 \$ 5.6% | 25,382,000 18.1% | \$ 93,508,000 \$ 66.8% | 139,962,000 <i>100.0%</i> |
| Commercial | 21,160 | 1,352.53 | 7,964,000 27.8% | 2,578,000 <i>9.0%</i> | 7,363,000 25.7% | 10,714,000 37.4% | 28,620,000 <i>100.0</i> % |
| Industrial | 3,474 | 4,397.03 | 4,657,000 <i>30</i> .5% | 1,379,000 <i>9.0%</i> | 2,777,000 18.2% | 6,462,000 <i>42</i> .3% | 15,275,000 <i>100.0%</i> |
| Tax Exempt | 3,659 | 732.02 | 562,000 <i>21.0%</i> | 184,000 6.9% | 497,000 18.5% | 1,435,000 53.6% | 2,678,000 <i>100.0%</i> |
| Government | 55,779 | 319.40 | 2,285,000 <i>12.8%</i> | 875,000 <i>4</i> .9% | 3,171,000 <i>17.8%</i> | 11,486,000 <i>64.5%</i> | 17,816,000 <i>100.0%</i> |
| Drainage | 40,931 | 697.79 | 2,726,000 9.5% | 1,603,000 5.6% | 5,208,000 18.2% | 19,024,000 66.6% | 28,561,000 <i>100.0%</i> |
| Subtotal - Active Accounts | 334,763 | \$ 695.75 | \$ 31,453,000 \$ 13.5% | 14,431,000 \$ 6.2% | 44,398,000 19.1% | \$ 142,630,000 \$ 61.2% | 232,912,000 100.0% |
| Inactive Accounts | 306,495 | 105.87 | 56,000 <i>0.2%</i> | (199,000) <i>(0.6%)</i> | 351,000 <i>1.1%</i> | 32,239,000 99.4% | 32,448,000 <i>100.0%</i> |
| Total | 641,258 | \$ 413.81 | \$ 31,510,000 \$ | 14,232,000 \$ | 44,750,000 | \$ 174,869,000 \$ | 265,360,000 |
| % of Total A/R | | | 11.9% | 5.4% | 16.9% | 65.9% | 100.0% |
| Water Fund | 232,836 | 222.93 | 6,949,000 \$ | 2,595,000 \$ | 9,377,000 | and the second | 51,905,000 |
| Sewer Fund | 271,289 | 786.82 | 24,561,000 \$ | 11,637,000 \$ | and the second | \$ 141,884,000 \$ | 213,455,000 |
| Total December 31, 2021 (a) | 641,258 | 413.81 | \$ 31,510,000 \$ | 14,232,000 \$ | 44,750,000 | \$ 174,869,000 \$ | 265,360,000 |
| Water Fund- Allowance | | | | | | \$ | (42,033,000) |
| Sewer Fund- Allowance | | | | | | \$ | (181,092,000) |
| Total Bad Debt Allowance | | | | | | \$ | (223,125,000) |
| Comparative - December 2020 (b) | 625,190 | 353.99 | \$ 28,198,000 \$ | 15,633,000 \$ | 36,440,000 | \$ 141,041,000 \$ | 221,311,000 |
| Difference (a) - (b) | 16,068 | 59.82 | \$ 3,312,000 \$ | (1,401,000) \$ | 8,310,000 | \$ 33,828,000 \$ | 44,049,000 |



The Monthly Wholesale Billings, Receivables, & Collections Report includes the following.

- 1. Wholesale Water Billings and Collections
- 2. Wholesale Sewer Billings and Collections
- 3. City of Highland Park Billings and Collections
- 4. Wholesale Water & Sewer Accounts Receivable Aging Report

Wholesale Water Billings and Collections

Wholesale Water Contracts: Great Lakes Water Authority (GLWA) provides wholesale water service to 87 member-partners through a variety of service arrangements.

Service Arrangement Type

| Model Contract | 83 |
|-----------------|----|
| Emergency | 1 |
| Older Contracts | 3 |
| Total | 87 |

Note: Services are provided to the Detroit Water & Sewerage Department (DWSD) via a Water and Sewer Services Agreement (WSSA). See the "Retail Revenues, Receivables, and Collections Report" section of this monthly report.

Wholesale Water Billing Basis: Beginning with FY 2016, wholesale water charges were restructured to create a more stable revenue stream by using a historical rolling average to project customer volumes which accounts for 40% of the monthly charges and 60% of the annual customer revenue requirement as a monthly fixed charge.

Table 1 - Wholesale Water Billings shows the FY 2022 water billed usage and revenues. As of December 31, 2021, the billed usage was at 93.57% of the original plan and billed revenue at 97.17% of the original plan. Billings and usage from the City of Flint *are* included as they were assumed in the FY 2022 Budget.

This table also reflects the positive impact of approved FY 2022 budget amendments and known billing adjustments on the original plan.

Wholesale Water Collections: The collections represent payments made by wholesale customers. These receipts are deposited directly into a lockbox with a trustee for administration of the flow of funds defined by GLWA's Master Bond Ordinance.

Table 2 - Wholesale Water Collections shows collections by month for the past 12 months compared to collections for the prior year as well as the calculated difference between the periods. Collections report lower than prior year for November and December 2021 due to issues with receipt of payments via US mail service over the holiday season. Payment activity rebounds in January when many of these timing issues were resolved.



Billing Adjustments

Achievement of Amended Plan

Revised Subtotal

| | | | WHOLESA | LE WATER CHA | RGES | | | |
|-------------------|----------------------|----------------------|----------------------|--------------------------|---------------------------------|----------------------|---------------------------------|---------------------|
| | FY 2022 Cł | narges (3) | FY 2022 | - Actual | FY 2022 - \ | /ariance | FY 2021 - | Actuals |
| <u>Month (1)</u> | <u>Volume</u> Mcf | <u>Revenue</u> \$ | <u>Volume</u> Mcf | <u>Revenue (2)</u> \$ | <u>Volume</u> _{Mcf} | <u>Revenue</u> \$ | <u>Volume</u> _{Mcf} | <u>Revenue</u> s |
| July | 1,677,100 | 33,302,700 | 1,342,686 | 29,642,785 | (334,414) | (3,659,915) | 1,862,791 | 33,583,619 |
| August | 1,509,200 | 31,598,500 | 1,417,142 | 30,604,230 | (92,058) | (994,270) | 1,622,324 | 31,230,027 |
| September | 1,316,400 | 29,141,000 | 1,298,750 | 29,065,588 | (17,650) | (75,412) | 1,313,440 | 27,836,560 |
| October | 1,034,000 | 26,280,800 | 1,006,217 | 26,123,483 | (27,783) | (157,317) | 1,070,660 | 25,454,840 |
| November | 896,800 | 25,001,500 | 905,525 | 25,117,181 | 8,725 | 115,681 | 956,542 | 24,390,303 |
| December | 972,100 | 25,612,000 | 958,879 | 25,542,432 | (13,221) | (69,568) | 981,770 | 24,600,202 |
| January | 972,000 | 25,650,600 | | | | | 969,483 | 25,235,130 |
| February | 884,400 | 24,852,700 | | | | | 920,467 | 24,794,259 |
| March | 979,500 | 25,678,200 | | | | | 1,001,073 | 25,450,418 |
| April | 914,000 | 25,117,700 | | | | | 954,308 | 25,140,003 |
| May | 1,059,200 | 26,721,900 | | | | | 1,181,186 | 27,569,969 |
| June | 1,374,300 | 30,029,900 | | | | | 1,424,230 | 30,066,884 |
| Total | 13,589,000 | 328,987,500 | 6,929,199 | 166,095,698 | (476,401) | (4,840,802) | 14,258,274 | 325,352,214 |
| Subtotals ytd | 7,405,600 | 170,936,500 | 6,929,199 | 166,095,698 | (476,401) | (4,840,802) | | |
| Achievement of O | 0 | | 93.57% | 97.17% | | | | |
| 1st Quarter Budge | | | | | | | | |
| | (220,000) | (2,400,000) | | | 220,000 | 2,400,000 | | |

Table 1 – FY 2022 Wholesale <u>Water</u> Billings Report

(1) Figures are stated as "Service Months"; that is, July figures represent bills issued in August, etc.

(2) Water Revenues differ from Table 1A because amounts are reduced by the monthly payment to the City of Flint for a license to raw water rights under the Flint Raw Water Contract in Table 1A

544,190

98.87%

166,639,888

65,470

(190,931)

544,190

(1,896,612)

65,470

97.34%

6,994,669

(3) Charges are based on the approved FY 2022 water supply system charge schedule.

168,536,500

Table 2 - Wholesale <u>Water</u> Collections

7,185,600

| | Water | | | | | | | | | | |
|---------------------------|--------------|-------------|-------------|---------|--|--|--|--|--|--|--|
| Month | Current Year | Prior Year | Variance | Ratio | | | | | | | |
| January | 20,716,948 | 25,470,795 | (4,753,847) | -18.66% | | | | | | | |
| February | 25,694,176 | 24,629,768 | 1,064,408 | 4.32% | | | | | | | |
| March | 20,854,506 | 25,017,989 | (4,163,483) | -16.64% | | | | | | | |
| April | 23,545,123 | 17,856,644 | 5,688,479 | 31.86% | | | | | | | |
| Мау | 24,878,479 | 24,811,582 | 66,897 | 0.27% | | | | | | | |
| June | 25,403,968 | 27,098,783 | (1,694,815) | -6.25% | | | | | | | |
| July | 23,709,847 | 25,080,575 | (1,370,728) | -5.47% | | | | | | | |
| August | 31,668,492 | 26,241,018 | 5,427,474 | 20.68% | | | | | | | |
| September | 23,849,618 | 26,078,015 | (2,228,397) | -8.55% | | | | | | | |
| October | 29,212,277 | 29,292,690 | (80,413) | -0.27% | | | | | | | |
| November | 25,265,770 | 32,218,822 | (6,953,052) | -21.58% | | | | | | | |
| December | 25,302,369 | 29,609,061 | (4,306,692) | -14.55% | | | | | | | |
| Rolling 12-Month Total | 300,101,573 | 313,405,742 | | | | | | | | | |
| Rolling, 12-Month Average | 25,008,464 | 26,117,145 | | | | | | | | | |

47



Wholesale Sewer Billings and Collections

Wholesale Sewer Contracts: GLWA provides wholesale sewer service to 18 memberpartners via multiple service arrangements.

Service Arrangement Type

| Model Contract | 11 |
|-----------------|----|
| Emergency | 0 |
| Older Contracts | 7 |
| Total | 18 |

Note: Services are provided to the Detroit Water & Sewerage Department via a Water and Sewer Services Agreement (WSSA). See the "Retail Revenues, Receivables, and Collections Report" section of the monthly report.

Wholesale Sewer Billing Basis: Beginning in FY 2015, the "sewer rate simplification" initiative was applied which provides for a stable revenue stream and predictability for our member partners. Wholesale sewer customers are billed a fixed monthly fee based upon the annual revenue requirement.

Table 3 - Wholesale Sewer Billings shows the FY 2022 sewer billed revenue. As of December 31, 2021 the billed revenue is at 100.00% of the original plan.

Wholesale Sewer Collections: The collections represent payments made by wholesale customers. These receipts are deposited directly into a lockbox with a trustee for administration of the flow of funds defined by GLWA's Master Bond Ordinance.

Table 4 - Wholesale Sewer Collections shows collections by month for the past 12 months compared to collections for the prior year as well as the calculated difference between the periods. The year-over-year rolling average from FY 2021 to FY 2022 shows slight improvement as of December 31.

The shift in wholesale sewer collection patterns is largely attributable to the timing of payments received. There are several large accounts whose payments swing between the end of the current month and the beginning of the next month.



49

| | | | WHOLES | ALE SEWER CHA | RGES | | | |
|------------------|--------------------------|----------------------|--------------------|---------------|--------------------------|----------------------|---------------------------------|----------------------|
| | FY 2022 | Charges | FY 2022 | - Actual | FY 2022 - | Variance | FY 2021 | - Actuals |
| <u>Month (1)</u> | <u>Volume (2)</u> Mcf | <u>Revenue</u> \$ | Volume (2) Revenue | | <u>Volume (2)</u> Mcf | <u>Revenue</u> \$ | <u>Volume</u> _{Mcf} | <u>Revenue</u> \$ |
| July | N/A | 22,615,000 | N/A | 22,615,000 | N/A | | N/A | 22,323,183 |
| August | N/A | 22,615,000 | N/A | 22,615,000 | N/A | - | N/A | 22,323,183 |
| September | N/A | 22,615,000 | N/A | 22,615,000 | N/A | - | N/A | 22,323,183 |
| October | N/A | 22,615,000 | N/A | 22,615,000 | N/A | - | N/A | 22,323,183 |
| November | N/A | 22,615,000 | N/A | 22,615,000 | N/A | - | N/A | 22,323,183 |
| December | N/A | 22,615,000 | N/A | 22,615,000 | N/A | - | N/A | 22,323,183 |
| January | N/A | 22,615,000 | N/A | | N/A | | N/A | 22,633,025 |
| February | N/A | 22,615,000 | N/A | | N/A | | N/A | 22,633,025 |
| March | N/A | 22,615,000 | N/A | | N/A | | N/A | 22,633,025 |
| April | N/A | 22,615,000 | N/A | | N/A | | N/A | 22,633,025 |
| May | N/A | 22,615,000 | N/A | | N/A | | N/A | 22,633,025 |
| June | N/A | 22,615,000 | N/A | | N/A | | N/A | 22,633,025 |
| Total | | 271,380,000 | | 135,690,000 | | - | | 269,737,248 |
| Subtotals ytd | | 135,690,000 | | 135,690,000 | | - | | |
| Achievement of E | Budget | | | 100.00% | | | | |

Table 3 – FY 2022 Wholesale Sewer Billings Report

(1) Figures are stated as "Service Months"; that is, July figures represent bills issued in August, etc.

(2) Not tracked as part of the wholesale sewer charges.

Table 4 - Wholesale Sewer Collections

| | Sewer | | | | | | | | | | |
|---------------------------|--------------|-------------|-------------|---------|--|--|--|--|--|--|--|
| Month | Current Year | Prior Year | Variance | Ratio | | | | | | | |
| January | 25,968,849 | 17,121,812 | 8,847,037 | 51.67% | | | | | | | |
| February | 16,872,900 | 23,284,737 | (6,411,837) | -27.54% | | | | | | | |
| March | 22,368,124 | 21,108,100 | 1,260,024 | 5.97% | | | | | | | |
| April | 28,128,933 | 10,024,575 | 18,104,358 | 180.60% | | | | | | | |
| May | 15,972,800 | 21,189,047 | (5,216,247) | -24.62% | | | | | | | |
| June | 28,523,650 | 28,598,467 | (74,817) | -0.26% | | | | | | | |
| July | 21,842,125 | 22,297,737 | (455,612) | -2.04% | | | | | | | |
| August | 22,191,725 | 25,354,280 | (3,162,555) | -12.47% | | | | | | | |
| September | 26,706,558 | 19,593,613 | 7,112,945 | 36.30% | | | | | | | |
| October | 22,176,058 | 16,853,983 | 5,322,075 | 31.58% | | | | | | | |
| November | 16,534,758 | 18,966,208 | (2,431,450) | -12.82% | | | | | | | |
| December | 21,765,958 | 25,232,649 | (3,466,691) | -13.74% | | | | | | | |
| Rolling 12-Month Total | 269,052,438 | 249,625,208 | | | | | | | | | |
| Rolling, 12-Month Average | 22,421,037 | 20,802,101 | | | | | | | | | |



City of Highland Park Billings and Collections

The City of Highland Park is provided water service pursuant to an emergency service basis. Sewer service is provided pursuant to a 1982 amended contract which indicates that the parties are guided in their legal relationship by a Michigan Supreme Court decision from 1949.

As of December 31, 2021, Highland Park had a delinquent balance of \$51.9 million, including \$39.7 million for wastewater treatment services, \$1.8 million for industrial waste control services, and \$10.4 million for water supply services.

Table 5 - City of Highland Park Billings and Collections provides a lifeto-date balance summary of the billing and collection history for Highland Park with detail provided for fiscal year 2022 through December 31, 2021. Please note the numbers below reflect the month the billing was sent and not the month the service was provided. A life-to-date summary is provided as an appendix to this monthly financial report.

Table 5 - City of Highland Park Billings and Collections

| | Water | Source | IWC | Total |
|----------------------------|------------|------------|-----------|------------|
| | water | Sewer | IVVC | Total |
| January 31, 2021 Balance | 9,237,168 | 35,080,899 | 1,749,502 | 46,067,569 |
| February 2021 Billing | 95,775 | 478,900 | 4,032 | 578,707 |
| February 2021 Payments | - | - | - | - |
| February 28, 2021 Balance | 9,332,943 | 35,559,799 | 1,753,534 | 46,646,276 |
| March 2021 Billing | 95,121 | 478,900 | 4,060 | 578,081 |
| March 2021 Payments | - | (220,241) | - | (220,241) |
| March 31, 2021 Balance | 9,428,064 | 35,818,458 | 1,757,594 | 47,004,116 |
| April 2021 Billing | 96,950 | 478,900 | 4,051 | 579,901 |
| April 2021 Payments | - | (224,583) | - | (224,583) |
| April 30, 2021 Balance | 9,525,014 | 36,072,775 | 1,761,645 | 47,359,434 |
| May 2021 Billing | 94,839 | 478,900 | 4,065 | 577,804 |
| May 2021 Payments | - | - | 2 | - |
| May 31, 2021 Balance | 9,619,853 | 36,551,675 | 1,765,710 | 47,937,238 |
| June 2021 Billing | 99,337 | 478,900 | 4,053 | 582,290 |
| June 2021 Payments | - | - | - | - |
| June 30, 2021 Balance | 9,719,190 | 37,030,575 | 1,769,763 | 48,519,528 |
| July 2021 Billing | 102,730 | 478,900 | 3,972 | 585,602 |
| July 2021 Payments | - | - | - | - |
| July 31, 2021 Balance | 9,821,920 | 37,509,475 | 1,773,735 | 49,105,130 |
| August 2021 Billing | 109,067 | 446,400 | 4,067 | 559,534 |
| August 2021 Payments | - | - | - | - |
| August 31, 2021 Balance | 9,930,987 | 37,955,875 | 1,777,802 | 49,664,664 |
| September 2021 Billing | 110,440 | 446,400 | 4,062 | 560,902 |
| September 2021 Payments | - | - | - | - |
| September 30, 2021 Balance | 10,041,427 | 38,402,275 | 1,781,864 | 50,225,566 |
| October 2021 Billing | 109,853 | 446,400 | 4,053 | 560,306 |
| October 2021 Payments | - | - | - | - |
| October 31, 2021 Balance | 10,151,280 | 38,848,675 | 1,785,917 | 50,785,872 |
| November 2021 Billing | 103,417 | 446,400 | 4,069 | 553,886 |
| November 2021 Payments | - | - | - | - |
| November 30, 2021 Balance | 10,254,697 | 39,295,075 | 1,789,986 | 51,339,758 |
| December 2021 Billing | 100,908 | 446,400 | 4,075 | 551,383 |
| December 2021 Payments | - | - | - | - |
| December 31, 2021 Balance | 10,355,605 | 39,741,475 | 1,794,061 | 51,891,141 |
| | | | | |



Wholesale Water & Sewer Accounts Receivable Aging Report

The detailed accounts receivable aging is in the Appendix to this monthly report. This report reflects the wholesale receivables only and does not include DWSD.

Table 6 - Wholesale Accounts Receivable Aging Report Summary is a summary of the total, current and non-current receivables by category as of December 31, 2021.

Table 7 - Wholesale Accounts Receivable Aging Report, Net of Highland Park is the same summary *without* the past due balances for the City of Highland Park. One member partner contract dispute accounts for \$5.36 million of the current water past due balance. The remaining water past due accounts were paid in early January.

The IWC past due balance relates to one member partner that was paid in full in January.

Pollutant surcharge past dues generally consist of smaller account holders that GLWA staff continue to communicate with. The pollutant surcharge balance over 105 days is related to a bankruptcy that is currently pending further court action.

Table 6 - Wholesale Accounts Receivable Aging Report Summary

| | Total | Current | 46-74 Days | 75-104 Days | >105 Days |
|---------------------|----------------------|---------------------|--------------------|--------------------|---------------------|
| Water | \$ 57,034,085.07 | \$ 41,297,800.98 | \$ 2,742,457.96 | \$ 819,375.19 | \$ 12,174,450.94 |
| Sewer | \$ 61,100,030.08 | \$ 21,804,954.92 | \$ 446,400.00 | \$ 446,400.00 | \$ 38,402,275.16 |
| IWC | \$ 2,469,885.82 | \$ 671,879.30 | \$ 16,142.40 | \$ - | \$ 1,781,864.12 |
| Pollutant Surcharge | \$ 486,616.57 | \$ 444,682.68 | \$ 17,253.40 | \$ 133.01 | \$ 24,547.48 |
| Total | \$ 121,090,617.54 | \$ 64,219,317.88 | \$ 3,222,253.76 | \$ 1,265,908.20 | \$ 52,383,137.70 |
| | 100.00% | 53.03% | 2.66% | 1.05% | 43.26% |

Table 7 - Wholesale Accounts Receivable Aging Report, Net of Highland Park

| | Total | Current | 46-74 Days | 7 | 75-104 Days | >105 Days |
|---------------------|---------------------|---------------------|--------------------|----|-------------|--------------------|
| Water | \$ 46,678,480.50 | \$ 41,093,476.26 | \$ 2,632,604.59 | \$ | 708,935.59 | \$ 2,243,464.06 |
| Sewer | \$ 21,358,554.92 | \$ 21,358,554.92 | \$ - | \$ | - | \$ - |
| IWC | \$ 675,824.63 | \$ 663,735.53 | \$ 12,089.10 | \$ | - | \$ - |
| Pollutant Surcharge | \$ 486,616.57 | \$ 444,682.68 | \$ 17,253.40 | \$ | 133.01 | \$ 24,547.48 |
| Total | \$ 69,199,476.62 | \$ 63,560,449.39 | \$ 2,661,947.09 | \$ | 709,068.60 | \$ 2,268,011.54 |
| | 100.00% | 91.85% | 3.85% | | 1.02% | 3.28% |

Note: percentages vary from 100% due to rounding.



The Monthly Trust Receipts & Disbursements Report includes the following.

- 1. GLWA Trust Receipts & Disbursements Net Cash Flows and Receipts
- DWSD Trust Receipts & Disbursements Net Cash Flows, Receipts & Loan Receivable
- 3. Combined System Trust Receipts & Disbursements Net Cash Flows

GLWA Trust Receipts & Disbursements

Net Cash Flows and Receipts Basis: The trusts established pursuant to the Master Bond Ordinance (MBO) outline a flow of funds that governs the priority of the application of cash receipts from both the regional wholesale (i.e., Great Lakes Water Authority or GLWA) and local retail (i.e., Detroit Water & Sewerage Department or DWSD) activities which are further separated by the water system and the sewage disposal system.

This report provides an ongoing status of the net cash flow of both organizations (GLWA and DWSD) to fund their allocated share of Master Bond Ordinance requirements in accordance with the leases for the regional systems.

Table 1 – GLWA Net Cash Flows from Trust Receipts & Disbursements

provides a summary of cash receipt collections and required MBO transfers by fiscal year. Fiscal year 2022 reflects six months of activity to date.

Water fund receipts exceeded required disbursements by 8% through December 31, 2021 compared to the four-year historical average ratio of required receipts exceeding disbursements by 13% since July 1, 2017.

Sewer fund receipts exceeded required disbursements by 6% through December 31, 2021 consistent with the four-year historical average ratio of required receipts exceeding disbursements by 6% since July 1, 2017.

Chart 1 – GLWA 12-Month Net Receipts – Water outlines monthly cash receipt trends across two points of reference for the regional water system— current year and prior year. The black line at the zero highlights the minimum goal for net receipts.

Chart 2 – GLWA 12-Month Net Receipts – Sewer outlines monthly cash receipt trends across two points of reference for the regional sewer system— current year and prior year. The black line at the zero highlights the minimum goal for net receipts.



53

Table 1 – GLWA Net Cash Flows from Trust Receipts & Disbursements

| | | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|--------|--|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| _ | | | | | | Thru Dec 31 |
| | Water | | | | | |
| 1 2 | Receipts MOU Adjustments | \$ 338,452,001 | \$ 336,594,234 | \$ 332,606,196 | \$ 336,642,021 | \$ 171,071,777 |
| | | 000 450 004 | 000 504 004 | 000 000 100 | 000 0 40 004 | 474 074 777 |
| 3 4 | Adjusted Receipts Disbursements | 338,452,001 (297,064,810) | 336,594,234 (289,230,481) | 332,606,196 (296,190,425) | 336,642,021 (308,713,407) | 171,071,777 (158,081,352) |
| 4 5 | Receipts Net of Required | 41,387,191 | 47,363,753 | 36,415,771 | 27,928,614 | 12,990,425 |
| 6 | I&E Transfer | (25,739,700) | (47,695,000) | | | (6,839,662) |
| 7 | Net Receipts | \$ 15,647,491 | \$ (331,247) | | \$ (4,063,073) | |
| 8 | Ratio of Receipts to Required Disbursements (Line 3/Line 4) | 114% | | | | 108% |
| | Sewer | | | | | |
| 0 | Receipts | \$ 476,269,761 | \$ 467,743,744 | \$ 490,461,356 | \$ 472,871,853 | \$ 234,175,325 |
| | MOU Adjustments | | - | - | | |
| 11 | Adjusted Receipts | 476,269,761 | 467,743,744 | 490,461,356 | 472,871,853 | 234,175,325 |
| 12 | Disbursements | (458,903,335) | (453,406,636) | (445,604,952) | (436,600,883) | (220,457,637) |
| 13 | Receipts Net of Required | 17,366,426 | 14,337,108 | 44,856,404 | 36,270,970 | 13,717,688 |
| | I&E Transfer | (22,698,100) | (22,547,700) | (19,096,200) | (40,504,727) | (23,342,663) |
| | DWSD Shortfall Advance | (24,113,034) | - | - | - | - |
| | Shortfall Repayment (principal) | - | 9,367,355 | 17,542,669 | 18,206,431 | 4,115,066 |
| 17 | Net Receipts | \$ (29,444,708) | \$ 1,156,763 | \$ 43,302,873 | \$ 13,972,674 | \$ (5,509,909) |
| 18 | Ratio of Receipts to Required Disbursements (Line 11/Line 12) | 104% | 103% | 110% | 108% | 106% |
| | Combined | | | | | |
| 19 | Receipts | \$ 814,721,762 | \$ 804,337,978 | \$ 823,067,552 | \$ 809,513,874 | \$ 405,247,102 |
| 20 | MOU Adjustments | 3 | - | | - | - |
| 21 | Adjusted Receipts | 814,721,762 | 804,337,978 | 823,067,552 | 809,513,874 | 405,247,102 |
| 22 | Disbursements | (755,968,145) | (742,637,117) | (741,795,377) | (745,314,290) | (378,538,989) |
| 23 | Receipts Net of Required | 58,753,617 | 61,700,861 | 81,272,175 | 64,199,584 | 26,708,113 |
| 24 | I&E Transfer | (48,437,800) | (70,242,700) | (44,815,951) | (72,496,414) | (30,182,325) |
| 25 | Shortfall Advance | (24,113,034) | - | - | - | - |
| | Shortfall Repayment | - | 9,367,355 | 17,542,669 | 18,206,431 | 4,115,066 |
| 27 | Net Receipts | \$ (13,797,217) | \$ 825,516 | \$ 53,998,893 | \$ 9,909,601 | \$ 640,854 |
| 28 | Ratio of Receipts to Required Disbursements (Line 21/Line 22) | 108% | 108% | 111% | 109% | 107% |

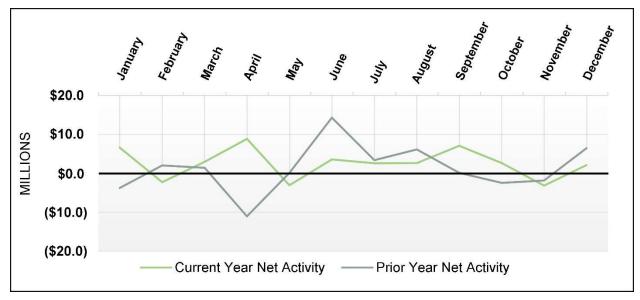
53





Chart 1 – GLWA 12-Month Net Receipts – Water





54



DWSD Trust Receipts & Disbursements

Net Cash Flows and Receipts Basis: The trusts established pursuant to the Master Bond Ordinance (MBO) outline a flow of funds that governs the priority of the application of cash receipts from both the regional wholesale (i.e. Great Lakes Water Authority or GLWA) and local retail (i.e. Detroit Water & Sewerage Department or DWSD) activities which are further separated by the water system and the sewage disposal system.

This report provides an ongoing status of the net cash flow of both organizations (GLWA and DWSD) to fund their allocated share of Master Bond Ordinance requirements in accordance with the leases for the regional systems.

Table 2 – DWSD Net Cash Flows from Trust Receipts & Disbursements provides a summary of cash receipt collections and required MBO transfers by fiscal year. Fiscal year 2022 reflects six months of activity to date.

Water fund receipts exceeded required disbursements by 6% through December 31, 2021 compared to the four-year historical average ratio of required receipts exceeding disbursements by 3% since July 1, 2017.

Sewer fund receipts fell short of required disbursements by 1% through December 31, 2021 compared to the four-year historical average ratio of required receipts falling short of disbursements by 2% since July 1, 2017.

Table 3 – FY 2018 DWSD Loan Receivable - Sewer provides an activity summary of the loan receivable established under the terms of the April 2018 MOU addressing the cash shortfall from FY 2018.

Table 4 – FY 2018 DWSD Loan Receivable Payments - Sewer provides an activity summary of loan receivable payments to date on the FY 2018 Sewer Loan Receivable including the interest on the loan. This payment is transferred directly to GLWA Sewer Improvement & Extension fund monthly.

The Reconciliation Committee monitors this balance and repayment progress as part of its quarterly meetings.



Chart 3 – DWSD 12-Month Net Receipts – Water outlines monthly activity trends across two points of reference for the local water system—current year and prior year. The black line at the zero highlights the breakeven goal for net receipts.

Chart 4 – DWSD 12-Month Net Receipts – Sewer outlines monthly activity trends across two points of reference for the local sewer system—current year and prior year. The black line at the zero highlights the breakeven goal for net receipts.

Table 2 – DWSD Net Cash Flows from Trust Receipts & Disbursements

| | | | FY 2018 | FY 2019 | FY 2020 | | FY 2021 | FY 2022 Thru Dec 31 |
|----|--|-----|---------------|-------------------|--------------------|---------|-----------------|------------------------|
| | Water | | | | | | | |
| 1 | Receipts | \$ | 101,233,147 | \$ 99,868,219 | \$ 96,885,723 | \$ | 102,067,423 | \$ 49,578,558 |
| 2 | MOU Adjustments | | - | - | - | | - | - |
| 3 | Adjusted Receipts | | 101,233,147 | 99,868,219 | 96,885,723 | | 102,067,423 | 49,578,558 |
| 4 | Disbursements | | (93,049,457) | (97,694,600) | (97,823,097) | | (100,707,200) | (46,629,396) |
| 5 | Receipts Net of Required | | 8,183,690 | 2,173,619 | (937,374) | š | 1,360,223 | 2,949,162 |
| 6 | I&E Transfer | | | (8,407,080) | | 5 | - | |
| 7 | Net Receipts | \$ | 8,183,690 | \$ (6,233,461) | \$ (937,374) | \$ | 1,360,223 | \$ 2,949,162 |
| 8 | Ratio of Receipts to Required | | 109% | 102% | 99% | | 101% | 106% |
| 0 | Disbursements (Line 3/Line 4) | | 109% | 102% | 99% | | 101% | 100% |
| | Sewer | | | | | | | |
| 9 | Receipts | \$ | 242,104,791 | \$ 265,339,797 | \$ 264,689,559 | \$ | 308,210,767 | \$ 145,362,709 |
| 10 | MOU Adjustments | | - | 6,527,200 | - | | - | - |
| 11 | Adjusted Receipts | | 242,104,791 | 271,866,997 | 264,689,559 | | 308,210,767 | 145,362,709 |
| 12 | Disbursements | | (266,217,825) | (271,018,306) | (275,507,374) | | (295,100,771) | (146,721,142) |
| 13 | Receipts Net of Required | | (24,113,034) | 848,691 | (10,817,815) | | 13,109,996 | (1,358,433) |
| 14 | I&E Transfer | | - | - | - | | - | - |
| 15 | Shortfall Advance from GLWA | | 24,113,034 | | - | | . . | - |
| 16 | Net Receipts | \$ | H | \$ 848,691 | \$ (10,817,815) | \$ | 13,109,996 | \$ (1,358,433) |
| 17 | Ratio of Receipts to Required | | 91% | 100% | 96% | | 104% | 99% |
| | Disbursements (Line 11/Line 12) | | 0170 | 100% | 00/0 | | 10170 | 0070 |
| | Combined | | | | | | | |
| 18 | Receipts | \$ | 343,337,938 | \$ 365,208,016 | \$ 361,575,282 | \$ | 410,278,190 | \$ 194,941,267 |
| 19 | MOU Adjustments | | - | 6,527,200 | - | | - | - |
| 20 | Adjusted Receipts | | 343,337,938 | 371,735,216 | 361,575,282 | | 410,278,190 | 194,941,267 |
| 21 | Disbursements | - 3 | (359,267,282) | (368,712,906) | (373,330,471) | | (395,807,971) | (193,350,538) |
| 22 | Receipts Net of Required | | (15,929,344) | 3,022,310 | (11,755,189) | | 14,470,219 | 1,590,729 |
| 23 | I&E Transfer | | - | (8,407,080) | - | | - | - |
| 24 | Shortfall Advance from GLWA | • | 24,113,034 | - | - | - | - | - |
| 25 | Net Receipts | \$ | 8,183,690 | \$ (5,384,770) | \$ (11,755,189) | \$ | 14,470,219 | \$ 1,590,729 |
| 26 | Ratio of Receipts to Required Disbursements (Line 20/Line 21) | | 96% | 101% | 97% | | 104% | 101% |



57

Table 3 – FY 2018 DWSD Loan Receivable – Sewer

| | Z018 DWSD Loan Receivable - S | | Balance |
|------------------|-------------------------------|------------|----------------------------------|
| Date 06-30-19 | Transaction | Amount | |
| | Record Loan Receivable | 620 070 | 24,113,034 |
| 07-15-19 | Payment for July 2019 | 638,978 | 23,474,056 |
| 08-08-19 | Payment for August 2019 | 640,686 | 22,833,370 |
| 09-06-19 | Payment for September 2019 | 642,400 | 22,190,970 |
| 10-02-19 | Payment for October 2019 | 644,118 | 21,546,852 |
| 11-04-19 | Payment for November 2019 | 645,840 | 20,901,012 |
| 12-03-19 | Payment for December 2019 | 647,567 | 20,253,445 |
| 01-06-20 | Payment for January 2020 | 649,299 | 19,604,146 |
| 02-04-20 | Payment for February 2020 | 651,035 | 18,953,111 |
| 03-03-20 | Payment for March 2020 | 652,776 | 18,300,335 |
| 04-15-20 | Payment for April 2020 | 654,522 | 17,645,813 |
| 05-06-20 | Payment for May 2020 | 656,272 | 16,989,541 |
| 06-02-20 | Payment for June 2020 | 658,027 | 16,331,514 |
| 07-07-20 | Payment for July 2020 | 659,787 | 15,671,727 |
| 08-04-20 | Payment for August 2020 | 661,551 | 15,010,176 |
| 09-02-20 | Payment for September 2020 | 663,320 | 14,346,855 |
| 10-05-20 | Payment for October 2020 | 665,094 | 13,681,761 |
| 11-03-20 | Payment for November 2020 | 666,873 | 13,014,888 |
| 12-03-20 | Payment for December 2020 | 668,656 | 12,346,232 |
| 01-05-21 | Payment for January 2021 | 670,444 | 11,675,788 |
| 02-02-21 | Payment for February 2021 | 672,237 | 11,003,551 |
| 03-03-21 | Payment for March 2021 | 674,035 | 10,329,517 |
| 04-05-21 | Payment for April 2021 | 675,837 | 9,653,679 |
| 05-04-21 | Payment for May 2021 | 677,644 | 8,976,035 |
| 06-03-21 | Payment for June 2021 | 679,457 | 8,296,578 |
| 07-02-21 | Payment for July 2021 | 681,274 | 7,615,305 |
| 08-03-21 | Payment for August 2021 | 683,095 | 6,932,209 |
| 09-03-21 | Payment for September 2021 | 684,922 | 6,247,287 |
| 10-05-21 | Payment for October 2021 | 686,754 | 5,560,534 |
| 11-03-21 | Payment for November 2021 | 688,590 | 4,871,944 |
| 12-06-21 | Payment for December 2021 | 690,432 | 4,181,512 |
| | | | and an even to Antonio years 113 |
| | | 19,931,522 | 4,181,512 |



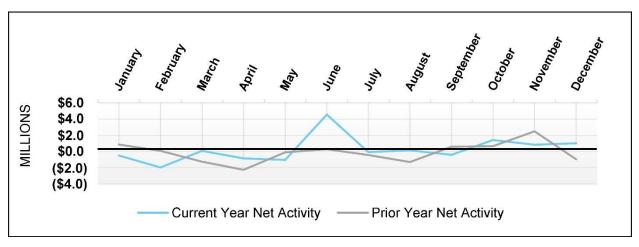
58

| Table 4 – FY | Table 4 – FY 2018 DWSD Loan Receivable Payments – Sewer | | | | | | | | |
|--------------|---|------------|-----------|------------|--|--|--|--|--|
| Date | Transaction | Principal | Interest | Total Paid | | | | | |
| 07-15-19 | Payment for July 2019 | 638,978 | 64,482 | 703,460 | | | | | |
| 08-08-19 | Payment for August 2019 | 640,686 | 62,774 | 703,460 | | | | | |
| 09-06-19 | Payment for September 2019 | 642,400 | 61,060 | 703,460 | | | | | |
| 10-02-19 | Payment for October 2019 | 644,118 | 59,342 | 703,460 | | | | | |
| 11-04-19 | Payment for November 2019 | 645,840 | 57,620 | 703,460 | | | | | |
| 12-03-19 | Payment for December 2019 | 647,567 | 55,893 | 703,460 | | | | | |
| 01-06-20 | Payment for January 2020 | 649,299 | 54,161 | 703,460 | | | | | |
| 02-04-20 | Payment for February 2020 | 651,035 | 52,425 | 703,460 | | | | | |
| 03-03-20 | Payment for March 2020 | 652,776 | 50,684 | 703,460 | | | | | |
| 04-15-20 | Payment for April 2020 | 654,522 | 48,938 | 703,460 | | | | | |
| 05-06-20 | Payment for May 2020 | 656,272 | 47,188 | 703,460 | | | | | |
| 06-02-20 | Payment for June 2020 | 658,027 | 45,433 | 703,460 | | | | | |
| 07-07-20 | Payment for July 2020 | 659,787 | 43,673 | 703,460 | | | | | |
| 08-04-20 | Payment for August 2020 | 661,551 | 41,909 | 703,460 | | | | | |
| 09-02-20 | Payment for September 2020 | 663,320 | 40,140 | 703,460 | | | | | |
| 10-05-20 | Payment for October 2020 | 665,094 | 38,366 | 703,460 | | | | | |
| 11-03-20 | Payment for November 2020 | 666,873 | 36,587 | 703,460 | | | | | |
| 12-03-20 | Payment for December 2020 | 668,656 | 34,804 | 703,460 | | | | | |
| 01-05-21 | Payment for January 2021 | 670,444 | 33,016 | 703,460 | | | | | |
| 02-02-21 | Payment for February 2021 | 672,237 | 31,223 | 703,460 | | | | | |
| 03-03-21 | Payment for March 2021 | 674,035 | 29,425 | 703,460 | | | | | |
| 04-05-21 | Payment for April 2021 | 675,837 | 27,623 | 703,460 | | | | | |
| 05-04-21 | Payment for May 2021 | 677,644 | 25,816 | 703,460 | | | | | |
| 06-03-21 | Payment for June 2021 | 679,457 | 24,003 | 703,460 | | | | | |
| 07-02-21 | Payment for July 2021 | 681,274 | 22,186 | 703,460 | | | | | |
| 08-03-21 | Payment for August 2021 | 683,095 | 20,365 | 703,460 | | | | | |
| 09-03-21 | Payment for September 2021 | 684,922 | 18,538 | 703,460 | | | | | |
| 10-05-21 | Payment for October 2021 | 686,754 | 16,706 | 703,460 | | | | | |
| 11-03-21 | Payment for November 2021 | 688,590 | 14,870 | 703,460 | | | | | |
| 12-06-21 | Payment for December 2021 | 690,432 | 13,028 | 703,460 | | | | | |
| | | 19,931,522 | 1,172,278 | 21,103,800 | | | | | |

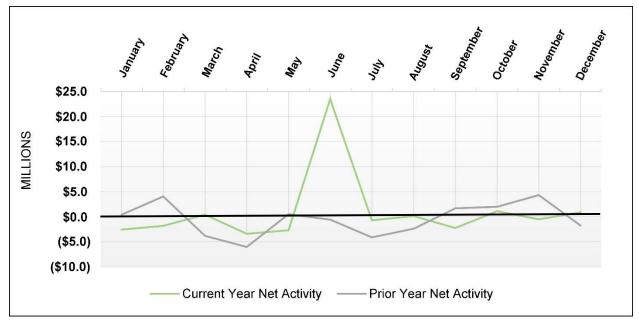
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Combined System Trust Receipts & Disbursements

Net Cash Flows and Receipts Basis: The trusts established pursuant to the Master Bond Ordinance (MBO) outline a flow of funds that governs the priority of the application of cash receipts from both the regional wholesale (i.e., Great Lakes Water Authority or GLWA) and local retail (i.e. Detroit Water & Sewerage Department or DWSD) activities which are further separated by the water system and the sewage disposal system.



Table 5 – Combined Net Cash Flows from Trust Receipts &Disbursementsprovides a summary of cash receipt collections and requiredMBO transfers by fiscal year. Fiscal year 2022 reflects six months of activityto date.

Water fund net receipts exceeded required disbursements by 8% through December 31, 2021 compared to the four-year historical average ratio of required receipts exceeding disbursements by 10% since July 1, 2017.

Sewer fund receipts exceeded required disbursements by 3% through December 31, 2021 consistent with the four-year historical average ratio of required receipts exceeding disbursements by 3% since July 1, 2017.

Table 5 – Combined Net Cash Flows from Trust Receipts & Disbursements

| | | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 Thru Dec 31 |
|----|--|-----------------|-----------------|-----------------|-----------------|------------------------|
| | Water | | | | | |
| 1 | Receipts | \$ 439,685,148 | \$ 436,462,453 | \$ 429,491,919 | \$ 438,709,444 | \$ 220,650,335 |
| 2 | MOU Adjustments | 2= | - | - | | - |
| 3 | Adjusted Receipts | 439,685,148 | 436,462,453 | 429,491,919 | 438,709,444 | 220,650,335 |
| 4 | Disbursements | (390,114,267) | (386,925,081) | (394,013,522) | (409,420,607) | (204,710,748) |
| 5 | Receipts Net of Required | 49,570,881 | 49,537,372 | 35,478,397 | 29,288,837 | 15,939,587 |
| 6 | I&E Transfer | (25,739,700) | (56,102,080) | (25,719,751) | (31,991,687) | (6,839,662) |
| 7 | Net Receipts | \$ 23,831,181 | \$ (6,564,708) | \$ 9,758,646 | \$ (2,702,850) | \$ 9,099,925 |
| 8 | Ratio of Receipts to Required Disbursements (Line 3/Line 4) | 113% | 113% | 109% | 107% | 108% |
| | Sewer | | | | | |
| 9 | Receipts | \$ 718,374,552 | \$ 733,083,541 | \$ 755,150,915 | \$ 781,082,620 | \$ 379,538,034 |
| 10 | MOU Adjustments | | 6,527,200 | | | |
| 11 | Adjusted Receipts | 718,374,552 | 739,610,741 | 755,150,915 | 781,082,620 | 379,538,034 |
| 12 | Disbursements | (725,121,160) | (724,424,942) | (721,112,326) | (731,701,654) | (367,178,779) |
| 13 | Receipts Net of Required | (6,746,608) | 15,185,799 | 34,038,589 | 49,380,966 | 12,359,255 |
| 14 | I&E Transfer | (22,698,100) | (22,547,700) | (19,096,200) | (40,504,727) | (23,342,663) |
| | Shortfall Advance | - | - | - | - | - |
| 16 | Shortfall Repayment (principal) | - | 9,367,355 | 17,542,669 | 18,206,431 | 4,115,066 |
| 17 | Net Receipts | \$ (29,444,708) | \$ (7,361,901) | \$ 32,485,058 | \$ 27,082,670 | \$ (6,868,342) |
| 18 | Ratio of Receipts to Required Disbursements (Line 11/Line 12) | 99% | 102% | 105% | 107% | 103% |
| | Combined | | | | | |
| 19 | Receipts | \$1,158,059,700 | \$1,169,545,994 | \$1,184,642,834 | \$1,219,792,064 | \$ 600,188,369 |
| 20 | MOU Adjustments | 1 | 6,527,200 | | | - |
| 21 | Adjusted Receipts | 1,158,059,700 | 1,176,073,194 | 1,184,642,834 | 1,219,792,064 | 600,188,369 |
| | Disbursements | (1,115,235,427) | (1,111,350,023) | | (1,141,122,261) | (571,889,527) |
| 23 | Receipts Net of Required | 42,824,273 | 64,723,171 | 69,516,986 | 78,669,803 | 28,298,842 |
| 24 | I&E Transfer | (48,437,800) | (78,649,780) | (44,815,951) | (72,496,414) | (30,182,325) |
| 25 | Shortfall Advance | (= | |)=; | - | - |
| 26 | Shortfall Repayment | 15 | 9,367,355 | 17,542,669 | 18,206,431 | 4,115,066 |
| 27 | Net Receipts | \$ (5,613,527) | \$ (4,559,254) | \$ 42,243,704 | \$ 24,379,820 | \$ 2,231,583 |
| 28 | Ratio of Receipts to Required Disbursements (Line 21/Line 22) | 104% | 106% | 106% | 107% | 105% |

APPENDIX



Balances as of 12/31/21

| Customer Name | Total Due | Current | 46 - 74 Days | 75 - 104 Days | >105 Days |
|-----------------------|----------------|----------------|----------------|---------------|----------------|
| ALLEN PARK | \$451,635.57 | \$451,635.57 | \$0.00 | \$0.00 | \$0.00 |
| ALMONT VILLAGE | \$20,207.81 | \$20,207.81 | \$0.00 | \$0.00 | \$0.00 |
| ASH TOWNSHIP | \$136,569.02 | \$136,569.02 | \$0.00 | \$0.00 | \$0.00 |
| BELLEVILLE | \$27,630.37 | \$27,630.37 | \$0.00 | \$0.00 | \$0.00 |
| BERLIN TOWNSHIP | \$62,443.71 | \$62,443.71 | \$0.00 | \$0.00 | \$0.00 |
| BROWNSTOWN TOWNSHIP | \$598,275.00 | \$598,275.00 | \$0.00 | \$0.00 | \$0.00 |
| BRUCE TOWNSHIP | \$53,364.59 | \$53,364.59 | \$0.00 | \$0.00 | \$0.00 |
| BURTCHVILLE TOWNSHIP | \$25,150.96 | \$25,150.96 | \$0.00 | \$0.00 | \$0.00 |
| CANTON TOWNSHIP | \$834,038.50 | \$834,038.50 | \$0.00 | \$0.00 | \$0.00 |
| CENTER LINE | \$81,097.49 | \$81,097.49 | \$0.00 | \$0.00 | \$0.00 |
| CHESTERFIELD TOWNSHIP | \$717,779.12 | \$717,779.12 | \$0.00 | \$0.00 | \$0.00 |
| CLINTON TOWNSHIP | \$614,237.59 | \$614,237.59 | \$0.00 | \$0.00 | \$0.00 |
| COMMERCE TOWNSHIP | \$565,494.53 | \$565,494.53 | \$0.00 | \$0.00 | \$0.00 |
| DEARBORN | \$7,038,126.40 | \$1,680,080.64 | \$2,405,646.11 | \$708,935.59 | \$2,243,464.06 |
| DEARBORN HEIGHTS | \$614,808.59 | \$614,808.59 | \$0.00 | \$0.00 | \$0.00 |
| EASTPOINTE | \$256,037.75 | \$256,037.75 | \$0.00 | \$0.00 | \$0.00 |
| ECORSE | \$110,967.88 | \$110,967.88 | \$0.00 | \$0.00 | \$0.00 |
| FARMINGTON | \$84,502.16 | \$84,502.16 | \$0.00 | \$0.00 | \$0.00 |
| FARMINGTON HILLS | \$1,510,565.11 | \$1,510,565.11 | \$0.00 | \$0.00 | \$0.00 |
| FERNDALE | \$174,339.14 | \$174,339.14 | \$0.00 | \$0.00 | \$0.00 |
| FLAT ROCK | \$325,045.49 | \$212,133.90 | \$112,911.59 | \$0.00 | \$0.00 |
| FLINT | \$251,928.82 | \$251,928.82 | \$0.00 | \$0.00 | \$0.00 |
| FRASER | \$101,959.98 | \$101,959.98 | \$0.00 | \$0.00 | \$0.00 |

Balances as of 12/31/21

| Customer Name | Total Due | Current | 46 - 74 Days | 75 - 104 Days | >105 Days |
|----------------------|-----------------|----------------|--------------|---------------|----------------|
| GARDEN CITY | \$137,786.22 | \$137,786.22 | \$0.00 | \$0.00 | \$0.00 |
| GIBRALTAR | \$86,378.63 | \$60,380.30 | \$25,998.33 | \$0.00 | \$0.00 |
| GROSSE ILE TOWNSHIP | \$91,177.00 | \$91,177.00 | \$0.00 | \$0.00 | \$0.00 |
| GROSSE POINTE PARK | \$258,658.13 | \$258,658.13 | \$0.00 | \$0.00 | \$0.00 |
| GROSSE POINTE SHORES | \$46,273.61 | \$46,273.61 | \$0.00 | \$0.00 | \$0.00 |
| GROSSE POINTE WOODS | \$100,320.02 | \$100,320.02 | \$0.00 | \$0.00 | \$0.00 |
| HAMTRAMCK | \$65,882.45 | \$65,882.45 | \$0.00 | \$0.00 | \$0.00 |
| HARPER WOODS | \$151,692.26 | \$151,692.26 | \$0.00 | \$0.00 | \$0.00 |
| HARRISON TWP | \$272,299.77 | \$272,299.77 | \$0.00 | \$0.00 | \$0.00 |
| HAZEL PARK | \$121,572.56 | \$121,572.56 | \$0.00 | \$0.00 | \$0.00 |
| HIGHLAND PARK | \$10,355,604.57 | \$204,324.72 | \$109,853.37 | \$110,439.60 | \$9,930,986.88 |
| HURON TOWNSHIP | \$127,399.68 | \$127,399.68 | \$0.00 | \$0.00 | \$0.00 |
| IMLAY CITY | \$124,672.16 | \$124,672.16 | \$0.00 | \$0.00 | \$0.00 |
| IMLAY TOWNSHIP | \$1,194.73 | \$1,194.73 | \$0.00 | \$0.00 | \$0.00 |
| INKSTER | \$105,555.60 | \$105,555.60 | \$0.00 | \$0.00 | \$0.00 |
| KEEGO HARBOR | \$50,629.75 | \$50,629.75 | \$0.00 | \$0.00 | \$0.00 |
| LAPEER | \$138,659.76 | \$138,659.76 | \$0.00 | \$0.00 | \$0.00 |
| LENOX TOWNSHIP | \$77,358.30 | \$51,298.34 | \$26,059.96 | \$0.00 | \$0.00 |
| LINCOLN PARK | \$416,002.83 | \$416,002.83 | \$0.00 | \$0.00 | \$0.00 |
| LIVONIA | \$1,850,520.63 | \$1,850,520.63 | \$0.00 | \$0.00 | \$0.00 |
| MACOMB TWP | \$994,710.61 | \$994,710.61 | \$0.00 | \$0.00 | \$0.00 |
| MADISON HEIGHTS | \$166,776.23 | \$166,776.23 | \$0.00 | \$0.00 | \$0.00 |

Balances as of 12/31/21

| Customer Name | Total Due | Current | 46 - 74 Days | 75 - 104 Days | >105 Days |
|---------------------|----------------|----------------|--------------|---------------|-----------|
| MAYFIELD TOWNSHIP | \$6,444.20 | \$6,444.20 | \$0.00 | \$0.00 | \$0.00 |
| MELVINDALE | \$114,754.25 | \$114,754.25 | \$0.00 | \$0.00 | \$0.00 |
| NEW HAVEN | \$31,912.03 | \$31,912.03 | \$0.00 | \$0.00 | \$0.00 |
| NOCWA | \$1,745,496.45 | \$1,745,496.45 | \$0.00 | \$0.00 | \$0.00 |
| NORTHVILLE | \$125,113.30 | \$125,113.30 | \$0.00 | \$0.00 | \$0.00 |
| NORTHVILLE TOWNSHIP | \$430,499.73 | \$430,499.73 | \$0.00 | \$0.00 | \$0.00 |
| NOVI | \$1,468,777.93 | \$1,468,777.93 | \$0.00 | \$0.00 | \$0.00 |
| OAK PARK | \$236,891.58 | \$236,891.58 | \$0.00 | \$0.00 | \$0.00 |
| OAKLAND CO DR COM | \$13,095.64 | \$13,095.64 | \$0.00 | \$0.00 | \$0.00 |
| PLYMOUTH | \$87,430.62 | \$87,430.62 | \$0.00 | \$0.00 | \$0.00 |
| PLYMOUTH TOWNSHIP | \$709,167.41 | \$709,167.41 | \$0.00 | \$0.00 | \$0.00 |
| REDFORD TOWNSHIP | \$539,894.54 | \$539,894.54 | \$0.00 | \$0.00 | \$0.00 |
| RIVER ROUGE | \$181,755.41 | \$119,766.81 | \$61,988.60 | \$0.00 | \$0.00 |
| RIVERVIEW | \$147,336.99 | \$147,336.99 | \$0.00 | \$0.00 | \$0.00 |
| ROCKWOOD | \$46,718.22 | \$46,718.22 | \$0.00 | \$0.00 | \$0.00 |
| ROMEO | \$41,724.73 | \$41,724.73 | \$0.00 | \$0.00 | \$0.00 |
| ROMULUS | \$373,513.48 | \$373,513.48 | \$0.00 | \$0.00 | \$0.00 |
| ROSEVILLE | \$444,958.37 | \$444,958.37 | \$0.00 | \$0.00 | \$0.00 |
| ROYAL OAK TOWNSHIP | \$32,751.68 | \$32,751.68 | \$0.00 | \$0.00 | \$0.00 |
| SHELBY TOWNSHIP | \$2,259,607.83 | \$2,259,607.83 | \$0.00 | \$0.00 | \$0.00 |
| SOCWA | \$3,777,178.63 | \$3,777,178.63 | \$0.00 | \$0.00 | \$0.00 |
| SOUTH ROCKWOOD | \$10,041.89 | \$10,041.89 | \$0.00 | \$0.00 | \$0.00 |
| SOUTHGATE | \$187,011.71 | \$187,011.71 | \$0.00 | \$0.00 | \$0.00 |

Balances as of 12/31/21

| Customer Name | Total Due | Current | 46 - 74 Days | 75 - 104 Days | >105 Days |
|------------------------------|-----------------|-----------------|----------------|---------------|-----------------|
| ST. CLAIR CNTY-GREENWOOD ENE | \$112,577.13 | \$112,577.13 | \$0.00 | \$0.00 | \$0.00 |
| ST. CLAIR SHORES | \$528,225.00 | \$528,225.00 | \$0.00 | \$0.00 | \$0.00 |
| STERLING HEIGHTS | \$2,601,671.05 | \$2,601,671.05 | \$0.00 | \$0.00 | \$0.00 |
| SUMPTER TOWNSHIP | \$127,476.50 | \$127,476.50 | \$0.00 | \$0.00 | \$0.00 |
| SYLVAN LAKE | \$23,235.71 | \$23,235.71 | \$0.00 | \$0.00 | \$0.00 |
| TAYLOR | \$389,594.51 | \$389,594.51 | \$0.00 | \$0.00 | \$0.00 |
| TRENTON | \$282,490.21 | \$282,490.21 | \$0.00 | \$0.00 | \$0.00 |
| TROY (SEOC) | \$1,055,770.71 | \$1,055,770.71 | \$0.00 | \$0.00 | \$0.00 |
| UTICA | \$94,951.95 | \$94,951.95 | \$0.00 | \$0.00 | \$0.00 |
| VAN BUREN TOWNSHIP | \$575,940.61 | \$575,940.61 | \$0.00 | \$0.00 | \$0.00 |
| WALLED LAKE | \$132,069.87 | \$132,069.87 | \$0.00 | \$0.00 | \$0.00 |
| WARREN | \$1,768,413.02 | \$1,768,413.02 | \$0.00 | \$0.00 | \$0.00 |
| WASHINGTON TOWNSHIP | \$181,696.51 | \$181,696.51 | \$0.00 | \$0.00 | \$0.00 |
| WAYNE | \$528,918.66 | \$528,918.66 | \$0.00 | \$0.00 | \$0.00 |
| WEST BLOOMFIELD TWP (C-O) | \$1,747,197.13 | \$1,747,197.13 | \$0.00 | \$0.00 | \$0.00 |
| WESTLAND | \$1,034,541.72 | \$1,034,541.72 | \$0.00 | \$0.00 | \$0.00 |
| MIXOM | \$399,647.83 | \$399,647.83 | \$0.00 | \$0.00 | \$0.00 |
| WOODHAVEN | \$278,120.37 | \$278,120.37 | \$0.00 | \$0.00 | \$0.00 |
| YCUA | \$1,762,138.88 | \$1,762,138.88 | \$0.00 | \$0.00 | \$0.00 |
| TOTAL WATER ACCOUNTS | \$57,034,085.07 | \$41,297,800.98 | \$2,742,457.96 | \$819,375.19 | \$12,174,450.94 |

Balances as of 12/31/21

| Customer Name | Total Due | Current | 46 - 74 Days | 75 - 104 Days | >105 Days |
|------------------------------|-----------------|-----------------|--------------|---------------|-----------------|
| ALLEN PARK | \$69,800.00 | \$69,800.00 | \$0.00 | \$0.00 | \$0.00 |
| CENTER LINE | \$85,799.50 | \$85,799.50 | \$0.00 | \$0.00 | \$0.00 |
| DEARBORN | \$1,671,500.00 | \$1,671,500.00 | \$0.00 | \$0.00 | \$0.00 |
| EVERGREEN-FARMINGTON | \$2,980,500.00 | \$2,980,500.00 | \$0.00 | \$0.00 | \$0.00 |
| FARMINGTON | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| GROSSE POINTE | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| GROSSE POINTE FARMS | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| GROSSE POINTE PARK | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| HAMTRAMCK | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| HARPER WOODS | \$18,000.00 | \$18,000.00 | \$0.00 | \$0.00 | \$0.00 |
| HIGHLAND PARK | \$39,741,475.16 | \$446,400.00 | \$446,400.00 | \$446,400.00 | \$38,402,275.16 |
| MELVINDALE | \$129,500.00 | \$129,500.00 | \$0.00 | \$0.00 | \$0.00 |
| OAKLAND COUNTY GWK DD | \$3,819,000.00 | \$3,819,000.00 | \$0.00 | \$0.00 | \$0.00 |
| OMID | \$5,887,955.42 | \$5,887,955.42 | \$0.00 | \$0.00 | \$0.00 |
| REDFORD TOWNSHIP | \$22,200.00 | \$22,200.00 | \$0.00 | \$0.00 | \$0.00 |
| ROUGE VALLEY | \$4,605,600.00 | \$4,605,600.00 | \$0.00 | \$0.00 | \$0.00 |
| SOUTH MACOMB SANITATION DIST | \$2,064,400.00 | \$2,064,400.00 | \$0.00 | \$0.00 | \$0.00 |
| WAYNE COUNTY-AREA #3 | \$4,300.00 | \$4,300.00 | \$0.00 | \$0.00 | \$0.00 |
| TOTAL SEWER ACCOUNTS | \$61,100,030.08 | \$21,804,954.92 | \$446,400.00 | \$446,400.00 | \$38,402,275.16 |

Balances as of 12/31/21

| Gustemen Name | | Gunnant | 46 - 74 Days | 75 - 104 Days | N105 Davia |
|--------------------------|-------------------------|-----------------------|------------------------|---------------|---------------------|
| Customer Name | Total Due \$3,210.78 | Current \$3,210.78 | 40 - 74 Days \$0.00 | \$0.00 | >105 Days \$0.00 |
| AUBURN HILLS (C-O) | \$11,412.96 | \$11,412.96 | \$0.00 | \$0.00 | \$0.00 |
| | | · · · | | | |
| AUBURN HILLS (C-O) ADMIN | \$1,970.81 | \$1,970.81 | \$0.00 | \$0.00 | \$0.00 |
| AUBURN HILLS (E-F) | \$384.09 | \$384.09 | \$0.00 | \$0.00 | \$0.00 |
| BERKLEY | \$3,147.06 | \$3,147.06 | \$0.00 | \$0.00 | \$0.00 |
| BEVERLY HILLS | \$994.74 | \$994.74 | \$0.00 | \$0.00 | \$0.00 |
| BINGHAM FARMS | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| BIRMINGHAM (E-F) | \$2,431.98 | \$2,431.98 | \$0.00 | \$0.00 | \$0.00 |
| BIRMINGHAM (SEOC) | \$5,667.54 | \$5,667.54 | \$0.00 | \$0.00 | \$0.00 |
| BLOOMFIELD HILLS | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| BLOOMFIELD TOWNSHIP | \$7,533.12 | \$7,533.12 | \$0.00 | \$0.00 | \$0.00 |
| CANTON TOWNSHIP | \$169.92 | \$169.92 | \$0.00 | \$0.00 | \$0.00 |
| CENTER LINE | \$7,334.88 | \$7,334.88 | \$0.00 | \$0.00 | \$0.00 |
| CHESTERFIELD TOWNSHIP | \$25,125.15 | \$25,125.15 | \$0.00 | \$0.00 | \$0.00 |
| CITY OF FARMINGTON (E-F) | \$200.01 | \$200.01 | \$0.00 | \$0.00 | \$0.00 |
| CITY OF FERNDALE | \$8,867.70 | \$8,867.70 | \$0.00 | \$0.00 | \$0.00 |
| CITY OF ROCHESTER | \$3,708.15 | \$3,708.15 | \$0.00 | \$0.00 | \$0.00 |
| CLARKSTON (C-O) ADMIN | \$69.06 | \$69.06 | \$0.00 | \$0.00 | \$0.00 |
| CLAWSON | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| CLINTON TOWNSHIP | \$26,452.65 | \$26,452.65 | \$0.00 | \$0.00 | \$0.00 |
| DEARBORN | \$72,396.54 | \$72,396.54 | \$0.00 | \$0.00 | \$0.00 |
| DEARBORN HEIGHTS | \$19,907.19 | \$19,907.19 | \$0.00 | \$0.00 | \$0.00 |
| DETROIT METRO WC AIRPORT | \$106.20 | \$106.20 | \$0.00 | \$0.00 | \$0.00 |

Balances as of 12/31/21

| Customer Name | Total Due | Current | 46 - 74 Days | 75 - 104 Days | >105 Days |
|--------------------------|----------------|-------------|--------------|---------------|----------------|
| EASTPOINTE | \$12,853.74 | \$12,853.74 | \$0.00 | \$0.00 | \$0.00 |
| FARMINGTON | \$3,991.35 | \$3,991.35 | \$0.00 | \$0.00 | \$0.00 |
| FARMINGTON HILLS | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| FRASER | \$4,938.30 | \$4,938.30 | \$0.00 | \$0.00 | \$0.00 |
| GARDEN CITY | \$6,113.58 | \$6,113.58 | \$0.00 | \$0.00 | \$0.00 |
| GROSSE POINTE | \$1,573.53 | \$1,573.53 | \$0.00 | \$0.00 | \$0.00 |
| GROSSE POINTE FARMS | \$2,079.75 | \$2,079.75 | \$0.00 | \$0.00 | \$0.00 |
| GROSSE POINTE PARK | \$1,177.05 | \$1,177.05 | \$0.00 | \$0.00 | \$0.00 |
| GROSSE POINTE SHORES | \$339.84 | \$339.84 | \$0.00 | \$0.00 | \$0.00 |
| GROSSE POINTE WOODS | \$2,646.15 | \$2,646.15 | \$0.00 | \$0.00 | \$0.00 |
| HAMTRAMCK | \$8,311.92 | \$8,311.92 | \$0.00 | \$0.00 | \$0.00 |
| HARPER WOODS | \$1,893.90 | \$1,893.90 | \$0.00 | \$0.00 | \$0.00 |
| HARRISON TWP | \$2,851.47 | \$2,851.47 | \$0.00 | \$0.00 | \$0.00 |
| HAZEL PARK | \$3,272.73 | \$3,272.73 | \$0.00 | \$0.00 | \$0.00 |
| HIGHLAND PARK | \$1,794,061.19 | \$8,143.77 | \$4,053.30 | \$0.00 | \$1,781,864.12 |
| HUNTINGTON WOODS | \$284.97 | \$284.97 | \$0.00 | \$0.00 | \$0.00 |
| INDEPENDENCE (C-O) ADMIN | \$1,295.83 | \$1,295.83 | \$0.00 | \$0.00 | \$0.00 |
| INKSTER | \$5,536.56 | \$5,536.56 | \$0.00 | \$0.00 | \$0.00 |
| KEEGO HARBOR | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| LAKE ORION | \$1,600.08 | \$1,600.08 | \$0.00 | \$0.00 | \$0.00 |
| LATHRUP | \$1,400.07 | \$1,400.07 | \$0.00 | \$0.00 | \$0.00 |
| LENOX TOWNSHIP | \$647.82 | \$647.82 | \$0.00 | \$0.00 | \$0.00 |

Balances as of 12/31/21

| Customer Name | Total Due | Current | 46 - 74 Days | 75 - 104 Days | >105 Days |
|----------------------------|-------------|-------------|--------------|---------------|-----------|
| LIVONIA | \$40,439.19 | \$40,439.19 | \$0.00 | \$0.00 | \$0.00 |
| MACOMB TWP | \$410.64 | \$410.64 | \$0.00 | \$0.00 | \$0.00 |
| MADISON HEIGHTS | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| MELVINDALE | \$7,002.12 | \$7,002.12 | \$0.00 | \$0.00 | \$0.00 |
| NEW HAVEN | \$612.42 | \$612.42 | \$0.00 | \$0.00 | \$0.00 |
| NORTHVILLE | \$1,773.54 | \$1,773.54 | \$0.00 | \$0.00 | \$0.00 |
| NOVI | \$17,627.43 | \$17,627.43 | \$0.00 | \$0.00 | \$0.00 |
| OAK PARK | \$14,423.73 | \$14,423.73 | \$0.00 | \$0.00 | \$0.00 |
| OAKLAND TOWNSHIP | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| ORCHARD LAKE VILLAGE | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| ORION TOWNSHIP (C-O) | \$8,366.79 | \$8,366.79 | \$0.00 | \$0.00 | \$0.00 |
| ORION TOWNSHIP (C-O) ADMIN | \$973.76 | \$973.76 | \$0.00 | \$0.00 | \$0.00 |
| OXFORD TOWNSHIP | \$1,115.10 | \$1,115.10 | \$0.00 | \$0.00 | \$0.00 |
| OXFORD VILLAGE | \$1,253.16 | \$1,253.16 | \$0.00 | \$0.00 | \$0.00 |
| PLEASANT RIDGE | \$272.58 | \$272.58 | \$0.00 | \$0.00 | \$0.00 |
| PLYMOUTH | \$3,883.38 | \$3,883.38 | \$0.00 | \$0.00 | \$0.00 |
| PLYMOUTH TOWNSHIP | \$272.58 | \$272.58 | \$0.00 | \$0.00 | \$0.00 |
| REDFORD TOWNSHIP | \$25,040.19 | \$25,040.19 | \$0.00 | \$0.00 | \$0.00 |
| ROCHESTER HILLS | \$18,519.51 | \$18,519.51 | \$0.00 | \$0.00 | \$0.00 |
| ROMULUS | \$1,557.60 | \$1,557.60 | \$0.00 | \$0.00 | \$0.00 |
| ROSEVILLE | \$29,139.51 | \$29,139.51 | \$0.00 | \$0.00 | \$0.00 |
| ROYAL OAK | \$13,809.54 | \$13,809.54 | \$0.00 | \$0.00 | \$0.00 |
| ROYAL OAK TOWNSHIP | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |

Balances as of 12/31/21

| Customer Name | Total Due | Current | 46 - 74 Days | 75 - 104 Days | >105 Days |
|------------------------------|----------------|--------------|--------------|---------------|----------------|
| SHELBY TOWNSHIP | \$14,724.63 | \$14,724.63 | \$0.00 | \$0.00 | \$0.00 |
| SOUTHFIELD (E-F) | \$55,617.80 | \$55,617.80 | \$0.00 | \$0.00 | \$0.00 |
| SOUTHFIELD (SEOC) | \$7,836.33 | \$7,836.33 | \$0.00 | \$0.00 | \$0.00 |
| ST. CLAIR SHORES | \$36,267.30 | \$24,178.20 | \$12,089.10 | \$0.00 | \$0.00 |
| STERLING HEIGHTS | \$63,872.22 | \$63,872.22 | \$0.00 | \$0.00 | \$0.00 |
| TROY (E-F) | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| TROY (SEOC) | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| UTICA | \$6,071.10 | \$6,071.10 | \$0.00 | \$0.00 | \$0.00 |
| VAN BUREN TOWNSHIP | \$2,077.98 | \$2,077.98 | \$0.00 | \$0.00 | \$0.00 |
| VILLAGE OF FRANKLIN | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| WASHINGTON TOWNSHIP | \$1,513.35 | \$1,513.35 | \$0.00 | \$0.00 | \$0.00 |
| WATERFORD TOWNSHIP DPW (ADMI | \$3,120.16 | \$3,120.16 | \$0.00 | \$0.00 | \$0.00 |
| WAYNE | \$4,996.71 | \$4,996.71 | \$0.00 | \$0.00 | \$0.00 |
| WEST BLOOMFIELD TWP (E-F) | \$6,364.92 | \$6,364.92 | \$0.00 | \$0.00 | \$0.00 |
| WEST BLOOMFIELD TWP. (C-O) A | \$243.39 | \$243.39 | \$0.00 | \$0.00 | \$0.00 |
| WESTLAND | \$22,726.80 | \$22,726.80 | \$0.00 | \$0.00 | \$0.00 |
| TOTAL IWC ACCOUNTS | \$2,469,885.82 | \$671,879.30 | \$16,142.40 | \$0.00 | \$1,781,864.12 |

Balances as of 12/31/21

| Customer Name | Total Due | Current | 46 - 74 Days | 75 - 104 Days | >105 Days |
|------------------------------|------------|------------|--------------|---------------|-----------|
| 3M COMPANY (MINNESOTA MINING | \$1,308.86 | \$0.00 | \$1,308.86 | \$0.00 | \$0.00 |
| A & R PACKING CO., LLC | \$2,416.37 | \$2,416.37 | \$0.00 | \$0.00 | \$0.00 |
| AACTRON | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| ACADEMY PACKING CO. | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| ACME RUSTPROOF | \$63.78 | \$63.78 | \$0.00 | \$0.00 | \$0.00 |
| ADORING PET FUNERAL HOME | \$299.20 | \$199.48 | \$49.86 | \$49.86 | \$0.00 |
| AEVITAS SPECIALITY SERVICES | \$635.35 | \$635.35 | \$0.00 | \$0.00 | \$0.00 |
| ALEXANDER & HORNUNG | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| ALEXANDER & HORNUNG | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| ALL CHEM CORP, LLC. | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| ALPHA STAMPING COMPANY | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| AMERICAN WASTE TECH INC. | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| AMERITI MFG. CO. | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| APPLIED TECHNOLOGY INDUSTRIE | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| ATWATER IN THE PARK | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| AUTOMOTIVE FINISH | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| AXLE BREWING COMPANY, LLC | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| B. NEKTAR MEADERY | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| BAFFIN BREWING COMPANY | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| BARON INDUSTRIES | \$502.24 | \$0.00 | \$502.24 | \$0.00 | \$0.00 |
| BARTZ BAKERY | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| BATCH BREWING COMPANY | \$991.97 | \$0.00 | \$71.83 | \$0.00 | \$920.14 |
| BAYS MICHIGAN CORPORATION | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |

Balances as of 12/31/21

| Customer Name | Total Due | Current | 46 - 74 Days | 75 - 104 Days | >105 Days |
|------------------------------|-------------|-------------|--------------|---------------|------------|
| BEIRUT BAKERY, INC. | \$37.00 | \$0.00 | \$0.00 | \$0.00 | \$37.00 |
| BETTER MADE SNACK FOOD | \$60,716.23 | \$60,716.23 | \$0.00 | \$0.00 | \$0.00 |
| BLACK LOTUS BREWING CO. | \$61.25 | \$0.00 | \$0.00 | \$0.00 | \$61.25 |
| BOZEK'S MARKET | \$42.01 | \$42.01 | \$0.00 | \$0.00 | \$0.00 |
| BREW DETROIT | \$6,077.29 | \$3,779.24 | \$2,298.05 | \$0.00 | \$0.00 |
| BROADWAY MKT CORNED BEEF | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| BROOKS BREWING, LLC. | \$26.36 | \$0.00 | \$26.36 | \$0.00 | \$0.00 |
| BROWN IRON BREWHOUSE | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| CADILLAC STRAITS BREWING CO. | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| CANTON BREW WORKS | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| CAPITAL REPRODUCTIONS | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| CF BURGER CREAMERY | \$29,047.24 | \$29,047.24 | \$0.00 | \$0.00 | \$0.00 |
| CHILANGO'S BAKERY | \$1,992.59 | \$21.60 | \$10.23 | \$12.50 | \$1,948.26 |
| CINTAS CORP MACOMB TWP. | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| CINTAS CORPORATION | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| CINTAS CORPORATION | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| CITY LAUNDRY, INC. | \$5.89 | \$5.89 | \$0.00 | \$0.00 | \$0.00 |
| CLASSIC CONTAINER CORP. | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| COCA-COLA REFRESHMENTS USA, | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| COSTCO WHOLESALE STORE | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| COSTCO WHOLESALE STORE | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| COSTCO WHOLESALE STORE | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |

Balances as of 12/31/21

| Customer Name | Total Due | Current | 46 - 74 Days | 75 - 104 Days | >105 Days |
|------------------------------|------------|------------|--------------|---------------|-----------|
| COSTCO WHOLESALE STORE | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| COUNTRY FRESH DAIRY CO. | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| CROSS CHEMICAL COMPANY, INC. | \$752.71 | \$0.00 | \$752.71 | \$0.00 | \$0.00 |
| DARLING INGREDIENTS, INC. | \$5,469.65 | \$5,469.65 | \$0.00 | \$0.00 | \$0.00 |
| DAVE'S SAUSAGE FACTORY 2 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| DEARBORN BREWING | \$(55.40) | \$0.00 | \$0.00 | \$0.00 | \$(55.40) |
| DEARBORN SAUSAGE | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| DEARBORN SAUSAGE CO., INC. | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| DETROIT BEER CO. | \$(66.68) | \$0.00 | \$0.00 | \$(66.68) | \$0.00 |
| DETROIT LINEN SERVICE | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| DETROIT METRO WC AIRPORT | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| DETROIT RIVERTOWN BREWERY CO | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| DETROIT SAUSAGES CO INC | \$26.53 | \$15.48 | \$6.63 | \$4.42 | \$0.00 |
| DETRONIC INDUSTRIES, INC. | \$73.15 | \$73.15 | \$0.00 | \$0.00 | \$0.00 |
| DIFCO LABORATORIES, INC. | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| DIVERSIFIED CHEM TECH. INC. | \$93.83 | \$93.83 | \$0.00 | \$0.00 | \$0.00 |
| DOMESTIC UNIFORM RENTAL | \$7,678.77 | \$7,678.77 | \$0.00 | \$0.00 | \$0.00 |
| DOMESTIC UNIFORM RENTAL | \$3,210.82 | \$3,210.82 | \$0.00 | \$0.00 | \$0.00 |
| DOWNEY BREWING COMPANY | \$29.89 | \$0.00 | \$29.89 | \$0.00 | \$0.00 |
| E.W. GROBBEL'S SONS, INC. | \$3,314.27 | \$3,314.27 | \$0.00 | \$0.00 | \$0.00 |
| EASTERN MARKET BREWING COMPA | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| ENVIROSOLIDS, L.L.C. | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| EQ DETROIT, INC. | \$2,751.97 | \$1,887.66 | \$849.07 | \$15.24 | \$0.00 |

Balances as of 12/31/21

| Customer Name | Total Due | Current | 46 - 74 Days | 75 - 104 Days | >105 Days |
|------------------------------|-------------|-------------|--------------|---------------|-----------|
| EQ DETROIT, INC. | \$17,111.87 | \$12,214.80 | \$4,897.07 | \$0.00 | \$0.00 |
| EQ DETROIT, INC. | \$362.37 | \$173.24 | \$189.13 | \$0.00 | \$0.00 |
| EQ DETROIT, INC. | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| ETON ST BREWERY- GRIFFIN CLA | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| EXTRUDE HONE CORPORATION | \$85.74 | \$85.74 | \$0.00 | \$0.00 | \$0.00 |
| EXTRUDEHODE | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| FARMINGTON BREWING COMPANY | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| FAYGO BEVERAGES, INC. | \$61,093.40 | \$61,093.40 | \$0.00 | \$0.00 | \$0.00 |
| FIVES CINETIC CORP. | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| FOUNDERS BREWING COMPANY | \$27.63 | \$0.00 | \$27.63 | \$0.00 | \$0.00 |
| FRESH-PAK | \$592.73 | \$592.73 | \$0.00 | \$0.00 | \$0.00 |
| FRESH-PAK | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| G20 ENERGY, LLC | \$1,905.06 | \$1,905.06 | \$0.00 | \$0.00 | \$0.00 |
| GENERAL LINEN SUPPLY CO. | \$3,928.85 | \$2,563.26 | \$1,365.59 | \$0.00 | \$0.00 |
| GLOBAL TITANIUM, INC. | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| GRANITE CITY FOOD & BREWERY | \$20.41 | \$0.00 | \$20.41 | \$0.00 | \$0.00 |
| GRANITE CITY FOOD & BREWERY | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| GRANITE CITY FOOD & BREWERY | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| GREAT BARABOO BREWING CO. | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| HACIENDA MEXICAN FOODS | \$1,472.99 | \$824.09 | \$448.94 | \$199.96 | \$0.00 |
| HENKEL CORPORATION | \$127.48 | \$0.00 | \$127.48 | \$0.00 | \$0.00 |
| HOME STYLE FOOD INC. | \$1,090.36 | \$1,090.36 | \$0.00 | \$0.00 | \$0.00 |

Balances as of 12/31/21

| Customer Name | Total Due | Current | 46 - 74 Days | 75 - 104 Days | >105 Days |
|------------------------------|--------------|------------|--------------|---------------|--------------|
| HOMEGROWN BREWING COMPANY | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| HOODS CLEANERS | \$211.33 | \$0.00 | \$0.00 | \$0.00 | \$211.33 |
| HOUGHTON INTERNATIONAL INC. | \$(178.17) | \$0.00 | \$0.00 | \$0.00 | \$(178.17) |
| HOUGHTON INTERNATIONAL INC. | \$188.22 | \$188.22 | \$0.00 | \$0.00 | \$0.00 |
| HOUGHTON INTERNATIONAL INC. | \$(7,724.50) | \$0.00 | \$0.00 | \$0.00 | \$(7,724.50) |
| HUNTINGTON CLEANERS | \$265.99 | \$0.00 | \$0.00 | \$265.99 | \$0.00 |
| IDP, INC. | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| INDUSTRIAL METAL COATING | \$1,174.51 | \$725.58 | \$448.93 | \$0.00 | \$0.00 |
| INTRASTATE DISTRIBUTORS | \$1,435.58 | \$1,435.58 | \$0.00 | \$0.00 | \$0.00 |
| ISLAMIC SLAUGHTER HOUSE | \$1,387.00 | \$1,387.00 | \$0.00 | \$0.00 | \$0.00 |
| ITALIAN BUTTER BREAD STICKS | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| JAMEX BREWING CO. | \$25.04 | \$0.00 | \$25.04 | \$0.00 | \$0.00 |
| KAR NUT PRODUCTS | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| KOWALSKI SAUSAGES, CO. | \$(313.75) | \$0.00 | \$0.00 | \$(313.75) | \$0.00 |
| KUHNHENN BREWING | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| LA MICHOACANA FLOUR TORTILLA | \$926.59 | \$926.59 | \$0.00 | \$0.00 | \$0.00 |
| LA MICHOACANA FLOUR TORTILLA | \$77.92 | \$77.92 | \$0.00 | \$0.00 | \$0.00 |
| LEAR CORPORATION DBA EAGLE (| \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| LIBERTY STREET PROD. BREWERY | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| LIFE TECHNOLOGIES | \$424.22 | \$424.22 | \$0.00 | \$0.00 | \$0.00 |
| LILY'S SEAFOOD GRILL & BREWE | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| MACDERMID, INC. | \$2,666.49 | \$2,666.49 | \$0.00 | \$0.00 | \$0.00 |
| MCCLURE'S PICKLES | \$590.50 | \$590.50 | \$0.00 | \$0.00 | \$0.00 |

Balances as of 12/31/21

| Customer Name | Total Due | Current | 46 - 74 Days | 75 - 104 Days | >105 Days |
|------------------------------|-------------|-------------|--------------|---------------|-----------|
| MCNICHOLS POLISHING & ANODIZ | \$44.19 | \$15.58 | \$0.00 | \$0.00 | \$28.61 |
| MELLO MEATS INC, - KUBISCH S | \$44.22 | \$44.22 | \$0.00 | \$0.00 | \$0.00 |
| METROPOLITAN BAKERY | \$(80.72) | \$0.00 | \$0.00 | \$(80.72) | \$0.00 |
| MIBA HYDRAMECHANICA CORP. | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| MICHIGAN DAIRY | \$71,706.31 | \$71,706.31 | \$0.00 | \$0.00 | \$0.00 |
| MICHIGAN PROD. MACHINING | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| MICHIGAN SOY PRODUCTS CO. | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| MIDWEST WIRE PRODUCTS, INC. | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| MILANO BAKERY | \$1,017.06 | \$1,017.06 | \$0.00 | \$0.00 | \$0.00 |
| MILTON CHILI CO. | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| MINNIE MARIE BAKERS, INC | \$1,993.55 | \$1,993.55 | \$0.00 | \$0.00 | \$0.00 |
| MISTER UNIFORM & MAT RENTALS | \$(3.53) | \$0.00 | \$0.00 | \$0.00 | \$(3.53) |
| MOTOR CITY BREWING WORKS | \$313.23 | \$0.00 | \$144.98 | \$0.00 | \$168.25 |
| NATIONAL CHILI COMPANY | \$378.02 | \$378.02 | \$0.00 | \$0.00 | \$0.00 |
| NEAPCO DRIVELINES | \$2,534.31 | \$2,534.31 | \$0.00 | \$0.00 | \$0.00 |
| NORTH CENTER BREWING COMPANY | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| NORTHERN LAKES SEAFOOD & MEA | \$21.57 | \$21.57 | \$0.00 | \$0.00 | \$0.00 |
| OAKWOOD BAKERY | \$99.71 | \$99.71 | \$0.00 | \$0.00 | \$0.00 |
| PARKER'S HILLTOP BREWER & SE | \$39.61 | \$0.00 | \$39.61 | \$0.00 | \$0.00 |
| PELLERITO FOODS INC. | \$2.02 | \$2.02 | \$0.00 | \$0.00 | \$0.00 |
| PEPSI COLA, INC. | \$26,735.85 | \$26,735.85 | \$0.00 | \$0.00 | \$0.00 |
| PERDUE PREMIUM MEAT COMPANY | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |

Balances as of 12/31/21

| Guedeman Neme | matal Dua | Quanta | 46 74 Dave | 75 104 David | 2105 David |
|---|---------------------|---------------------------------------|------------------------|-------------------------|---------------------|
| Customer Name PERDUE PREMIUM MEAT COMPANY | Total Due \$0.00 | Current \$0.00 | 46 - 74 Days \$0.00 | 75 - 104 Days \$0.00 | >105 Days \$0.00 |
| | | · · · · · · · · · · · · · · · · · · · | | | |
| PERDUE PREMIUM MEAT COMPANY | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| PERSONAL UNIFORM SERVICE, IN | \$59.03 | \$39.20 | \$19.83 | \$0.00 | \$0.00 |
| PETRO ENVIRON TECH, INC. | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| PINE TREE ACRES, INC. | \$19,809.76 | \$19,809.76 | \$0.00 | \$0.00 | \$0.00 |
| PLATING SPEC | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| POWER VAC OF MICHIGAN, INC. | \$219.84 | \$219.84 | \$0.00 | \$0.00 | \$0.00 |
| PREMIER PLATING, LLC | \$1,890.50 | \$0.00 | \$1,890.50 | \$0.00 | \$0.00 |
| PRODUCTION SPRING, LLC. | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| QUALA SERVICES, LLC | \$167.98 | \$167.98 | \$0.00 | \$0.00 | \$0.00 |
| RAY'S ICE CREAM CO. | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| RED SPOT PAINT #409139 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| RIVER ROUGE BREWING COMPANY | \$440.60 | \$0.00 | \$0.00 | \$0.00 | \$440.60 |
| ROCHESTER MILLS BEER COMPANY | \$326.51 | \$0.00 | \$146.85 | \$0.00 | \$179.66 |
| ROCHESTER MILLS PROD BREWERY | \$2,398.23 | \$0.00 | \$1,515.65 | \$0.00 | \$882.58 |
| ROYAL OAK BREWERY | \$(279.51) | \$0.00 | \$0.00 | \$0.00 | \$(279.51) |
| RTT | \$27,772.36 | \$0.00 | \$0.00 | \$0.00 | \$27,772.36 |
| SEAFARE FOODS, INC. | \$104.56 | \$104.56 | \$0.00 | \$0.00 | \$0.00 |
| SHERWOOD BREWING COMPANY | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| SMITH-WATKINS, LLC | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| SPRAYTEK, INC. | \$14.52 | \$0.00 | \$0.00 | \$0.00 | \$14.52 |
| SUPERNATURAL SPIRITS & BREWI | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| SWEETHEART BAKERY, INC. | \$247.36 | \$113.93 | \$40.03 | \$46.19 | \$47.21 |

Balances as of 12/31/21

| Customer Name | Total Due | Current | 46 - 74 Days | 75 - 104 Days | >105 Days |
|------------------------------|-------------|-------------|--------------|---------------|-----------|
| TOM LAUNDRY CLEANERS | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| TRAFFIC JAM & SNUG | \$(31.16) | \$0.00 | \$0.00 | \$0.00 | \$(31.16) |
| TURRI'S ITALIAN FOODS | \$24,084.41 | \$24,084.41 | \$0.00 | \$0.00 | \$0.00 |
| TURRI'S ITALIAN FOODS | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| U-METCO, INC. | \$650.29 | \$650.29 | \$0.00 | \$0.00 | \$0.00 |
| UNCLE RAYS SNACKS, LLC | \$51,071.28 | \$51,071.28 | \$0.00 | \$0.00 | \$0.00 |
| UNCLE RAYS SNACKS, LLC | \$3,062.01 | \$3,062.01 | \$0.00 | \$0.00 | \$0.00 |
| UNIQUE LINEN SERVICES, INC. | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| UNITED FISH DISTRIBUTORS | \$4.16 | \$4.16 | \$0.00 | \$0.00 | \$0.00 |
| UNITED LINEN SERVICE, LLC. | \$195.60 | \$195.60 | \$0.00 | \$0.00 | \$0.00 |
| UNITED MEAT & DELI | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| URBANREST BREWING COMPANY | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| US ECOLOGY MICHIGAN | \$424.05 | \$424.05 | \$0.00 | \$0.00 | \$0.00 |
| US ECOLOGY ROMULUS, INC. | \$2,589.35 | \$2,589.35 | \$0.00 | \$0.00 | \$0.00 |
| USHER OIL SERVICES | \$2,133.94 | \$2,133.94 | \$0.00 | \$0.00 | \$0.00 |
| VALICOR ENVIROMENTAL SERVICE | \$546.79 | \$546.79 | \$0.00 | \$0.00 | \$0.00 |
| VAUGHAN INDUSTRIES, INC. | \$41.68 | \$41.68 | \$0.00 | \$0.00 | \$0.00 |
| VERNDALE PRODUCTS | \$14,298.40 | \$14,298.40 | \$0.00 | \$0.00 | \$0.00 |
| VERNDALE PRODUCTS, INC. | \$4,181.19 | \$4,181.19 | \$0.00 | \$0.00 | \$0.00 |
| VERNOR FOOD PRODUCTS | \$(36.26) | \$0.00 | \$0.00 | \$0.00 | \$(36.26) |
| WIGLEY'S MEAT PROCESS | \$446.61 | \$446.61 | \$0.00 | \$0.00 | \$0.00 |
| WINTER SAUSAGE MFG. CO. | \$992.76 | \$992.76 | \$0.00 | \$0.00 | \$0.00 |

Balances as of 12/31/21

| Customer Name | Total Due | Current | 46 - 74 Days | 75 - 104 Days | >105 Days |
|---------------------------|--------------|--------------|--------------|-----------------|-------------|
| WINTER SAUSAGE MFG. CO. | \$130.45 | \$130.45 | \$0.00 | \$0.00 | \$0.00 |
| WOLVERINE PACKING CO | \$4,831.51 | \$4,831.51 | \$0.00 | \$0.00 | \$0.00 |
| WOLVERINE PACKING CO. | \$2,359.13 | \$2,359.13 | \$0.00 | \$0.00 | \$0.00 |
| WOODWARD AVENUE BREWERS | \$144.24 | \$0.00 | \$0.00 | \$0.00 | \$144.24 |
| TOTAL POLLUTANT SURCHARGE | | | | 4 100 01 | |
| ACCOUNTS | \$486,616.57 | \$444,682.68 | \$17,253.40 | \$133.01 | \$24,547.48 |

City of Highland Park Billings and Collections

| | Water | Sewer | IWC | Cumulative Total |
|---|--------------------------------|---|------------------------------|--|
| June 30, 2012 Balance | \$- | \$ 10,207,956 | \$ 852,987 | \$ 11,060,943 |
| FY 2013 Billings | 485,887 | 4,987,635 | 154,444 | 5,627,966 |
| FY 2013 Payments | (65,652 | (2,206,211) | - | (2,271,863) |
| June 30, 2013 Balance FY 2014 Billings FY 2014 Payments | \$ 420,235 1,004,357 | \$ 12,989,380 6,980,442 (1,612,633) | \$ 1,007,431 161,951 - | \$ 14,417,046 8,146,750 (1,612,633) |
| June 30, 2014 Balance | \$ 1,424,592 | \$ 18,357,189 | \$ 1,169,382 | \$ 20,951,163 |
| FY 2015 Billings | 1,008,032 | 5,553,123 | 165,739 | 6,726,894 |
| FY 2015 Payments | - | (1,444,623) | - | (1,444,623) |
| June 30, 2015 Balance | \$ 2,432,625 | \$ 22,465,689 | \$ 1,335,121 | \$ 26,233,435 |
| FY 2016 Billings | 1,157,178 | 5,612,167 | 106,431 | 6,875,776 |
| FY 2016 Payments | - | (2,022,335) | - | (2,022,335) |
| June 30, 2016 Balance | \$ 3,589,803 | \$ 26,055,521 | \$ 1,441,551 | \$ 31,086,875 |
| FY 2017 Billings | 1,245,267 | 5,802,000 | 101,999 | 7,149,265 |
| FY 2017 Payments | - | (2,309,186) | - | (2,309,186) |
| June 30, 2017 Balance FY 2018 Billings FY 2018 Payments | \$ 4,835,070 1,277,179 - | \$ 29,548,335 5,657,101 (4,108,108) | \$ 1,543,550 80,472 - | - \$ 35,926,954 7,014,752 (4,108,108) |
| June 30, 2018 Balance | \$ 6,112,248 | \$ 31,097,327 | \$ 1,624,022 | \$ 38,833,597 |
| FY 2019 Billings | 1,238,797 | 5,617,100 | 51,220 | 6,907,117 |
| FY 2019 Payments | - | (5,241,583) | - | (5,241,583 |
| June 30, 2019 Balance | \$ 7,351,045 | \$ 31,472,844 | \$ 1,675,243 | \$ 40,499,132 |
| FY 2020 Billings | 1,182,639 | 5,665,400 | 47,097 | 6,895,136 |
| FY 2020 Payments | - | (3,026,117) | - | (3,026,117 |
| June 30, 2020 Balance | \$ 8,533,684 | \$ 34,112,127 | \$ 1,722,340 | \$ 44,368,151 |
| FY 2021 Billings | 1,185,506 | 5,702,000 | 47,423 | 6,934,929 |
| FY 2021 Payments | - | (2,783,552) | - | (2,783,552) |
| June 30, 2021 Balance | \$ 9,719,190 | \$ 37,030,575 | \$ 1,769,763 | \$ 48,519,528 |
| FY 2022 Billings (6 Months) | 636,415 | 2,710,900 | 24,298 | 3,371,613 |
| FY 2022 Payments (6 Months) | - | - | - | - |
| Balance as of December 31, 2021 | \$ 10,355,605 | \$ 39,741,475 | \$ 1,794,061 | \$ 51,891,141 |

AGENDA ITEM #8C



Financial Services Audit Committee Communication

Date: March 25, 2022

To: Great Lakes Water Authority Audit Committee

From: Megan Savage, Vendor Outreach Coordinator

Re: Business Inclusion & Diversity Program Update

Background: On November 25, 2020, the GLWA Board of Directors approved an amendment to the Procurement Policy allowing for the formation of a new Business Inclusion & Diversity (B.I.D.) Program within the Financial Services' Procurement Group. The B.I.D. Program Team, which includes internal GLWA Team Members as well as external consultants, executed a Phase I launch of the program on February 1, 2021 and a Phase II launch on July 1, 2021.

Analysis: This month we present tables to recap B.I.D. Program activity from the date of the program launch on February 1, 2021 through February 28, 2022 for procurements budgeted to exceed \$1 million.

Table 1: B.I.D. Eligible Procurements as of February 28, 2022

Table 1 provides an overview of the total number of B.I.D. Program-eligible Procurements awarded, in evaluation, or advertised as active opportunities in GLWA's Bonfire Procurement Portal. Each vendor who submits a response to a B.I.D. Programeligible procurement must also submit a Business Inclusion and Diversity Plan. The total number of Diversity Plans that GLWA has received for B.I.D.-eligible procurements that have been awarded and that are in evaluation is also provided.

| | Awarded | In Evaluation Phase | Active (Advertised) | Total |
|--|---------|------------------------|------------------------|-------|
| Procurements Requiring B.I.D. Submittals | 23 | 14 | 6 | 43 |
| Total Number of Diversity Plans Submitted | 61 | 44 | n/a | 105 |

Table 2: Scored Criteria for Awarded Procurements

Table 2 provides a breakdown of the percentage of B.I.D. Program-eligible procurements awarded thus far that met the B.I.D. Program scored criteria. This scored criteria is based on whether the vendor has a business presence in the state of Michigan, GLWA's Member Partner service area, or a disadvantaged municipality within GLWA's service area.

| | Procurements Awarded Meeting B.I.D. Criteria as a % of Total Awards |
|--------------------------------------|--|
| Michigan Location | 91% |
| Member Partner Service Area | 83% |
| Disadvantaged Service Area Territory | 52% |

Table 3: Non-Scored Criteria - Disadvantaged, Minority-owned, Women-owned,and Small Businesses

Table 3 provides a breakdown of the percentage of B.I.D. Program-eligible procurements awarded thus far that met the B.I.D. Program Non-Scored Criteria. This Non-Scored Criteria refers to any diversity certifications that the vendor may hold as a Disadvantaged Business Enterprise (DBE), Minority-Owned Business Enterprise (MBE), Women-Owned Business Enterprise (WBE), or Small Business Enterprise (SBE).

| | Procurements Awarded as a % of Total |
|---------|--------------------------------------|
| | Awards |
| Awarded | 65% |

Table 4: Overall Contracts Awarded

Table 4 provides a breakdown of overall dollars awarded under the B.I.D. Program thus far, distinguishing between firms that met all four B.I.D. Program scoring criteria (including scored and non-scored criteria) and firms that met all three criteria (scored criteria only).

| | Total Contract Count | Total Contract Amount (in millions) |
|-------------------------------|----------------------------|--|
| Eligible Procurements | 23 | \$231.4 |
| Firms that met four criteria | 15 | \$75.8 |
| Firms that met three criteria | 8 | \$155.6 |

Other activities completed this month to expand awareness of the B.I.D. Program and to foster the development of effective diversity plans included the following.

- Presented at the Michigan Department of Transportation (MDOT) 41st Annual Disadvantaged Business Enterprise (DBE) Small Business Development Virtual Conference on March 22, 2022.
- Continued attendance of the B.I.D. Program Liaison at all Pre-Bid and Pre-Proposal solicitation meetings to overview the B.I.D. Program requirements and answer any questions from vendors/contractors.

Additionally, the following tasks remain at the top of our priority list.

- Developing contract language for B.I.D. Program requirements.
- Evaluating the insurance and bonding requirements for small, minority-owned, and disadvantaged business enterprises.
- Identifying meaningful reporting and performances measures.
- Review vendor registration and reporting capabilities within Bonfire.

Proposed Action: Receive and file this report.

Page 101



Financial Services Audit Committee Communication

Date: March 25, 2022

To: Great Lakes Water Authority Audit Committee

From: Dana Bierer, CPA, Manager - Special Projects

Re: Grants, Gifts, and Other Resources Report through February 28, 2022

Background: The Great Lakes Water Authority (GLWA) delegated authority to the Chief Executive Officer to oversee and report on activities identified in the GLWA Articles of Incorporation related to solicitation and receipt of grants, gifts, and other resources as stated in Article 4 – Powers, Section B (4):

(4) Solicit, receive, and accept gifts, grants, labor, loans, contributions of money, property, or other things of value, and other aid or payment from any federal, state, local, or intergovernmental government agency or from any other person or entity, public or private, upon terms and conditions acceptable to the Authority, or participate in any other way in a federal, state, local, or intergovernmental governmental governmental governmental state, local, or intergovernmental governmental.

Other resources in this context refer to labor, contributions of money, property, or other things of value from any other person or entity, public or private with the exception for loans, subject to provisions of the GLWA Board Debt Management Policy, and Intergovernmental agreements and other activities that are addressed in the GLWA Board Procurement Policy.

Participation in any other way in a federal, state local, or intergovernmental government program includes participation in research projects at universities.

Refer to the Grants, Gifts, and Other Resources Delegation Policy at <u>Grants, Gifts, and Other</u> <u>Resources Delegation Policy - GLWA (glwater.org)</u>.

Analysis: To ensure transparency and timely communication, this report is provided to the Board, no less than quarterly, documenting activities subject to the policy. The report will, at a minimum, include description, type of activity, dollar amount, compliance and/or performance requirements, if any, and status including, at a minimum, solicitation, acceptance, and close-out.

Bolded items in the attached tables reflect changes from the prior report.

Highlights of this quarter's report includes the following.

- ✓ FEMA DR-4494-MI, Michigan Covid-19 Pandemic, funding was set to expire March 31, 2022. However, we have been informed that this will now be extended through June 30, 2022.
- ✓ FEMA DR-4607-MI, Michigan Severe Storms, Flooding, and Tornadoes, added Public Assistance on November 10, 2021 with a declaration date of July 15, 2021. It is anticipated that funding will approximate \$1,000,000, after insurance coverage is taken into consideration.
- ✓ An application for FEMA Building Resilient Infrastructure and Communities (BRIC), for \$39,611,007 was submitted for this competitive national grant. A panel reviews submitted hazard mitigation projects with selections made in July.

This report presents the Grants, Gifts, and Other Resources across three tables.

Table 1 Grant Submissions reflects open FY2020 submissions, FY2021 submissions, and FY2022 submissions to date. The summarized activity provided identifies seven programs with ten reimbursement requests.

Table 2 Participation in Other Federal, State, Local or Intergovernmental Programs reflects open FY2020 projects, open FY2021 projects, and FY2022 projects to date. The summarized activity provided identifies 17 research projects with GLWA as a contributor and/or participant in research being conducted by a university or government program.

Table 3 Closed Programs reflects seven programs with six reimbursement requests and receipts in FY2021 and FY2022, through February 28, 2022.

Proposed Action: Receive and file this report.

Page 103



Financial Services Audit Committee Communication

Table 1 Grant Submissions reflects open FY2020 submissions, FY2021 submissions, and FY2022 submissions to date. The summarized activity provided identifies seven programs with ten reimbursement requests.

Table 1 - Grant Submissions

| Reference Number | Request Date | Description | Type of Activity | Amount Requested | Compliance and/or Performance Requirements | Status | Team Member Contact |
|---------------------|-----------------|--|---|---------------------|--|--|------------------------|
| 2020-002a | 09/15/2020 | Federal Emergency Management Agency (FEMA) activity related to COVID-19 Project 144208 | Federal Grant (Reimbursement Basis) | To Be Determined | Federal Audit Requirements (add to existing audit program) | FEMA is reviewing | Dana Bierer |
| 2021-013 | 12/28/2021 | Federal Emergency Management Agency (FEMA) activity related to COVID-19 Project 552205 | Federal Grant (Reimbursement Basis) | \$36,014 | Federal Audit Requirements (add to existing audit program) | FEMA approved funding for release | Dana Bierer |
| 2022-001a | 03/03/2022 | Federal Emergency Management Agency (FEMA) activity related to COVID-19 Project 435200 | Federal Grant (Reimbursement Basis) | \$92,033 | Federal Audit Requirements (add to existing audit program) | FEMA is reviewing | Dana Bierer |
| 2022-001b | 03/03/2022 | Federal Emergency Management Agency (FEMA) activity related to COVID-19 Project 553382 | Federal Grant (Reimbursement Basis) | \$63,842 | Federal Audit Requirements (add to existing audit program) | FEMA is reviewing | Dana Bierer |
| 2022-002 | 01/06/2022 | Federal Emergency Management Agency (FEMA), June 25-26 Flood, DR-4607 Multiple projects | Federal Grant (Reimbursement Basis) | \$1,000,000 | Federal Audit Requirements (add to existing audit program) | Pending application completion | Dana Bierer |
| 2022-003 | 01/20/2022 | Federal Emergency Management Agency (FEMA), Building Resilient Infrastructure and Communities (BRIC) Northwest Interceptor Diversion Tunnel | Federal Grant (Reimbursement Basis) | \$39,611,007 | Federal Audit Requirements (add to existing audit program); Match \$13,203,669 | FEMA is reviewing | Jody Caldwell |

| Reference Number | Request Date | Description | Type of Activity | Amount Requested | Compliance and/or Performance Requirements | Status | Team Member Contact |
|---------------------|-----------------|--|---|---------------------|--|---------|--|
| 2022-004 | 02/23/2022 | Water Technician Registered Apprenticeship Program- \$2,225 per apprentice, 25 apprentices | Macomb Community College Tuition | \$55,625 | None | Awarded | Patricia Butler |
| 2021-001 | 01/01/2021 | The Michigan Department of Environment, Great Lakes, and Energy (EGLE) Drinking Water Asset Management (DWAM) Grant CS-198 | State Grant (Reimbursement Basis) | \$998,047 | None | Applied | Jody Caldwell |
| 2021-003 | 02/18/2021 | The Michigan Department of Environment, Great Lakes, and Energy (EGLE) Watershed Council Support Program | State Grant (Reimbursement Basis) | \$40,000 | Quarterly Progress Reports | Awarded | Dan Gold |
| 2021-007 | 06/23/2021 | The Michigan Department of Environment, Great Lakes, and Energy (EGLE) Surface Water Intake Protection Program (SWIPP) | State Grant (Reimbursement Basis) | \$50,000 | Quarterly Progress Reports; Match \$50,000 | Awarded | Mary Lynn Semegen and Terry Daniel |

Table 2 Participation in Other Federal, State, Local or Intergovernmental Programs reflects open FY2020 projects, open FY2021 projects, and FY2022 projects to date. The summarized activity provided identifies 17 research projects with GLWA as a contributor and/or participant in research being conducted by a university or government program.

Table 2 - Participation in Other Federal, State, Local, or Intergovernmental Programs

| Reference Number | Start Date | Description | Type of Activity | Amount to be Provided | Compliance and/or Performance Requirements | Status | Team Member Contact |
|---------------------|-----------------|---------------------------------------|---|---|--|---------|------------------------|
| 2020-003 | Pre- FY 2019 | Anaerobic Digestion Project CS-217 | Michigan State University Project | \$353,282 (Life to date through FY2021) \$355,800 (Contract amount) | None | Ongoing | John Norton |

| Reference Number | Start Date | Description | Type of Activity | Amount to be Provided | Compliance and/or Performance Requirements | Status | Team Member Contact |
|---------------------|-----------------|--|--|--|--|---------|------------------------|
| 2020-004 | Pre- FY 2019 | Phosphorus & Oxygen Control; Collection System Optimization Contract 1900169 | Multiple Projects with University of Michigan | \$94,541 (Life to date through FY2021) \$246,823 (Contract amount) | None | Ongoing | John Norton |
| 2020-005 | FY2020 | PFAS Health & Ecological Impacts Contract 1902151 | Wayne State University Project | \$79,450 (Life to date through FY2021) \$192,153 (Contract amount) | None | Ongoing | John Norton |
| 2020-007 | FY2020 | Transport/Fate of Nutrients in Biosolids Contract 1902059 | Michigan State University Project | \$224,345 (Life to date through FY2021) \$277,470 (Amended contract amount) | None | Ongoing | John Norton |
| 2020-008 | FY2020 | Surveillance of Covid-19 in Southeast MI Wastewater Contract 2001402 | Michigan State University Project | \$177,004 (Life to date through FY2021) \$267,458 (Contract amount) | None | Ongoing | John Norton |
| 2020-009 | 07/22/2020 | Implementation of LTCP modeling Contract 2001434 | University of Michigan Project | \$264,348 (Life to date through FY2021) \$636,702 (Contract amount) | None | Ongoing | John Norton |
| 2020-010 | 08/01/2020 | Microplastics and Human Health Contract 1904710 | Wayne State University Project | \$39,570 (Life to date through FY2021) \$195,000 (Contract amount) | None | Ongoing | John Norton |

| Reference Number | Start Date | Description | Type of Activity | Amount to be Provided | Compliance and/or Performance Requirements | Status | Team Member Contact |
|---------------------|----------------|---|--|--|--|---------|------------------------|
| 2020-011 | Pre- FY2020 | Smart Pipes Contract 1900902 | University of Michigan Project | \$310,243 (Life to date through FY2021) \$356,610 (Contract amount) | None | Ongoing | John Norton |
| 2020-013a | 08/01/2020 | Surveillance of Covid-19 in Southeast MI Wastewater- Expanded project scope- Phase 1 | State of Michigan/ CDM Smith and Michigan State University | GLWA receiving samples and analytics (Project worth \$400,000) | None | Ongoing | John Norton |
| 2020-013b | 08/01/2020 | Surveillance of Covid-19 in Southeast MI Wastewater Contract expanded project scope- Phase 2 | State of Michigan/ CDM Smith and Michigan State University | GLWA receiving samples and analytics (Project worth \$2,700,000) | None | Ongoing | John Norton |
| 2020-014 | 12/29/2020 | Assessing biosolid treatment processes on pollutant environmental fate on plant uptake | US Environmental Protection Agency (EPA)/ Michigan State, Colorado State, and University of Georgia | \$100,000 and in- kind labor for program participation (Contract amount) (Project worth \$1,498,000) | None | Awarded | John Norton |

| Reference Number | Start Date | Description | Type of Activity | Amount to be Provided | Compliance and/or Performance Requirements | Status | Team Member Contact |
|---------------------|------------|---|---|--|--|---------|------------------------|
| 2021-004 | 03/17/2021 | Project GREEEN-Accumulation of Per- and Polyfluoroalkyl Substances in Historically Archived Corn and Wheat Grains | Michigan State University Project | \$20,000 (Contract amount) (Project worth \$69,999) | None | Ongoing | John Norton |
| 2021-005 | 05/04/2021 | Converting Biosolids into Diesel | Department of Energy (DOE)/ Pacific Northwest National Labs (PNNL) | In-kind labor and facility for research and analysis with PNNL (Project worth \$740,750) | None | Ongoing | John Norton |
| 2021-008 | 07/12/2021 | Method Development for Detection of Human Sources of Fecal Contamination in the Watershed (LAMP) Contract 2100771 | Wayne State University Project | \$297,560 (Contract amount) | None | Awarded | John Norton |
| 2021-009 | 03/30/2021 | Life cycle assessment Contract 2001595 | University of Michigan Project | \$23,680 (Contract amount) | None | Ongoing | John Norton |
| 2021-010 | 02/11/2021 | Prestressed concrete cylinder pipe (PCCP) Study on Loss of Preload | Tarrant Regional Water District | \$20,000 (Contract amount) (Project worth \$100,000) | None | Awarded | John Norton |

| Reference Number | Start Date | Description | Type of Activity | Amount to be Provided | Compliance and/or Performance Requirements | Status | Team Member Contact |
|---------------------|------------|---|--------------------------------------|--|--|---------|------------------------|
| 2021-011 | 04/29/2021 | Integrated biochemical electrochemical technologies (IBET) | University of Michigan Project | \$312,500 and in- kind labor and facility for program participation (Contract amount; Project worth \$6,790,983) | None | Awarded | John Norton |
| 2021-012 | 11/19/2021 | Michigan Industry Cluster Approach 3.0 (MICA 3.0) Employer Partnership | Focus: Hope | GLWA leading employer collaboration (Project worth \$250,000) | None | Awarded | Patricia Butler |

Table 3 Closed Programs reflects seven programs with six reimbursement requests and receipts in FY2021 and FY2022, through February 28, 2022.

Table 3 - Closed Programs

| Reference Number | Request Date | Description | Type of Activity | Amount | Compliance and/or Performance Requirements | Status | Team Member Contact |
|---------------------|---|--|---|------------------------------------|---|----------------------|------------------------|
| 2020-001 | 08/31/2020; 09/23/2020; 10/26/2020; 11/23/2020 | Wage Incentive used for qualified apprentices | MOU with DESC (Detroit Employment Solutions Corporation) and SER- Metro Detroit | \$12,000 (\$3,000 per month) | Minimum wage and monthly work hour requirements | \$12,000 received | Patricia Butler |

| Reference Number | Request Date | Description | Type of Activity | Amount | Compliance and/or Performance Requirements | Status | Team Member Contact |
|---------------------|-----------------|---|---|---|--|--|------------------------|
| 2020-006 | FY2020 | Lake Huron to Lake Erie Monitoring Platform; Photocatalytic UV materials | Multiple Projects with Wayne State University | \$1,284,500 (Contract amount) | None | Program not initiated; no resources provided | John Norton |
| 2021-002 | 02/01/2021 | Southeast Michigan Council of Governments (SEMCOG) Infrastructure Asset Management Program | Organization of Local Governments (Reimburseme nt Basis) | \$29,951 | None | \$29,951 received 02/18/2021 | Jody Caldwell |
| 2020-012 | Pre-FY2020 | Phosphorus and Oxygen Control; Collection System Optimization Contract 1900169 | Multiple Projects with University of Michigan | \$250,000 (Contract amount) | None | Program incorporated into similar 2020-004 program | John Norton |
| 2021-006 | 06/21/2021 | Improving Arrested Anaerobic Digestion Using Vacuum-Based IntensiCarb Reactors | Department of Energy, Office of Energy Efficiency and Renewable Energy/ University of California Irvine | In-kind labor for program participation (Project worth \$3,875,000) | None | Program not initiated; no resources provided | John Norton |
| 2020-002b | 11/11/2020 | Federal Emergency Management Agency (FEMA) activity related to COVID-19 Project 149797 | Federal Grant (Reimburseme nt Basis) | \$84,244 | Federal Audit Requirements (add to existing audit program) | \$84,244 received 10/14/2021 | Dana Bierer |

| Reference Number | Request Date | Description | Type of Activity | Amount | Compliance and/or Performance Requirements | Status | Team Member Contact |
|---------------------|-----------------|---|--|----------|--|------------------------------------|------------------------|
| 2020-002c | 02/09/2021 | Federal Emergency Management Agency (FEMA) activity related to COVID-19 Project 149800 | Federal Grant (Reimburseme nt Basis) | \$16,123 | Federal Audit Requirements (add to existing audit program) | \$16,123 received 10/14/2021 | Dana Bierer |

AGENDA ITEM #8E



Financial Report Debt Summary for the Quarter Ended December 31, 2021

The Quarterly Debt Summary Report includes the following:

- 1. Key Takeaways
- 2. Look Ahead Five Year Capital Financing Plan
- 3. Existing Debt
- 4. Debt Service Coverage
- 5. Refinancing

Pursuant to leases that became effective on January 1, 2016, the Great Lakes Water Authority (GLWA) assumed possession and control of the regional assets of both the water supply and sewage disposal systems owned by the City of Detroit (City), which were previously operated by the Detroit Water and Sewerage Department (DWSD). GLWA assumed certain liabilities including State Revolving Fund loans and 100% of the revenue bond debt issued by DWSD prior to January 1, 2016.

The bonds are repaid by the revenues of the water and sewage disposal systems including the DWSD retail system (local system) revenues which are the exclusive property of GLWA in accordance with Section 5.7 of each lease agreement. The DWSD is GLWA's agent for purposes of billing and collection of the retail system revenues for both the water and sewer system, as set forth in a water and sewer services agreement between the City and GLWA. All revenue receipts are deposited into a trust and administered in compliance with the Master Bond Ordinance, applicable to each system (referred to herein collectively as the "MBO").

The leases also provide that GLWA will finance local system improvements of DWSD. GLWA is the obligor of 100% of the debt payable which is recorded in GLWA's books. An "obligation receivable" is recorded by GLWA which represents the amount related to the DWSD local system improvements. Accordingly, DWSD records an "obligation payable" for a like amount.

GLWA maintains detailed records of all debt issuances and how the responsibility for payment of debt is allocated between the regional system and local system, as well as between the water and sewer systems. GLWA and DWSD regularly reconcile interrelated accounts between the entities.

The lease agreements, water and sewer services agreement, and MBO noted above are available on GLWA's website at <u>www.glwater.org</u>. The above explanation is a synopsis of key points and is not intended to fully represent the agreements or any sub-sections thereof.



Key Takeaways

- ✓ The purpose of this report is to provide a resource for stakeholders and to support management decisions as capital financing needs evolve.
- ✓ GLWA continues to enhance transparency by including the Debt Summary Report in the Audit Committee Binder quarterly.
- ✓ GLWA has fourteen active State Revolving Fund (SRF) loans, ten for water and four for sewer. On behalf of DWSD, GLWA is administering four projects for water and two for sewer.
- ✓ Existing proceeds from special revenue bonds are depleted. This means that all capital projects are now funded with Improvement & Extension funds, except for SRF funded projects.
- ✓ Other key items of interest include the following balances as of December 31, 2021.

| As of December 31, 2021 | (\$ Millions) | |
|---|---------------|-----------|
| | Water | Sewer |
| FY 2022 Approved SRF Projects - Table 5 | \$352.0 | \$105.5 |
| DWSD Obligation Receivable - Table 6 | \$549.5 | \$384.0 |
| GLWA Outstanding Debt - Table 8 | \$2,271.4 | \$2,870.5 |

Look Ahead - Five Year Capital Financing Plan

The following tables summarize the projected Capital Improvement Program (CIP) funding to be provided by proceeds received from the issuance of new revenue bonds and draws on committed SRF loans. *The financing plan is dynamic and changes with the pace of capital spending and alignment with refunding opportunities.*

Table 1 is based on the FY 2022 and FY 2023 Biennial Budget & Five-Year Financial Plan FY 2022 through FY 2026 approved by the GLWA Board of Directors. It should be noted existing proceeds from special revenue bonds are depleted. This means that all capital projects are now funded with Improvement & Extension (I&E) funds, except for SRF funded projects. It is expected that the I&E funds supplemented with SRF low-interest loan funding will be sufficient to fund the capital program through FY 2022 including an allowance to provide flexibility in the timing of future bond issues.

Table 2 is based on the current local system CIP approved by the DWSD's Board of Water Commissioners. It is important to note the amounts represented in Revenue Bonds reflect the anticipated par amount of the bonds to be issued and not the net proceeds needed to support the capital plan.



| Projected Funding Needs for Regional System | | | | | | | | | | |
|---|----|------------|-----|------------|----|------------|----------|-------|----|------------|
| | | FY 2022 | | FY 2023 | | FY 2024 | FY 20 | 25 | | FY 2026 |
| Water | | | | | | | | | | |
| Revenue Bonds | \$ | - | \$2 | 05,000,000 | \$ | - | \$195,00 | 0,000 | \$ | - |
| SRF loan draws | \$ | 26,100,000 | \$ | 16,600,000 | \$ | 16,600,000 | \$ 16,60 | 0,000 | \$ | 15,810,000 |
| Total projected funding Water | \$ | 26,100,000 | \$2 | 21,600,000 | \$ | 16,600,000 | \$211,60 | 0,000 | \$ | 15,810,000 |
| Sewer | | | | | | | | | | |
| Revenue Bonds | \$ | - | \$1 | 30,000,000 | \$ | - | \$115,00 | 0,000 | \$ | - |
| SRF loan draws | \$ | 31,992,000 | \$ | 4,122,000 | \$ | - | \$ | - | \$ | - |
| Total projected funding Sewer | \$ | 31,992,000 | \$1 | 34,122,000 | \$ | - | \$115,00 | 0,000 | \$ | - |

Table 1 - GLWA Projected Bond Financing FY 2022 - FY 2026

Table 2 - DWSD Projected Bond Financing FY 2022 - FY 2026

| Projected Funding Needs for Local System | | | | | | | | | | | | |
|--|----|------------|----|------------|----|---------|----|--------|----|--------|--|--|
| | | FY 2022 | | FY 2023 | | FY 2024 | F | Y 2025 | F | Y 2026 | | |
| Water | | | | | | | | | | | | |
| Revenue Bonds | | | \$ | - | \$ | - | \$ | - | \$ | - | | |
| SRF loan draws | \$ | 25,000,000 | \$ | 28,500,000 | \$ | - | \$ | - | \$ | - | | |
| Total projected funding Water | \$ | 25,000,000 | \$ | 28,500,000 | \$ | - | \$ | - | \$ | - | | |
| Sewer | | | | | | | | | | | | |
| Revenue Bonds | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | | |
| SRF loans draws | \$ | 10,000,000 | \$ | 8,628,000 | \$ | - | \$ | - | \$ | - | | |
| Total projected funding Sewer | \$ | 10,000,000 | \$ | 8,628,000 | \$ | - | \$ | - | \$ | - | | |

Note: Information presented is as of December 31, 2021. Financing plans continue to evolve based on the needs of the system.



Existing Debt

Current Debt Ratings: Bond ratings are a key measure of an organization's financial strength. Ratings are established by independent agencies that conduct detailed reviews of an organization's operational and financial performance to assist those seeking to invest in an organization through the purchase of bonds. GLWA actively monitors its debt ratings and continually seeks to make operational and financial improvements to improve its bond ratings. Achieving higher ratings will allow GLWA to finance its capital needs at lower interest rates.

Table 3 – Debt Ratings by System provides a summary of the debt ratings assigned in March 2020 in advance of the most recent bond refinancing and new money issuance in May and June 2020.

| Current Debt Ratings | | | | | | | | | | |
|-----------------------------------|--------------------|---------------------------|---------------|--|--|--|--|--|--|--|
| | S&P Global Ratings | Moody's Investors Service | Fitch Ratings | | | | | | | |
| Water Supply System Revenue Bonds | | | | | | | | | | |
| Senior lien | AA- | A1 | A+ | | | | | | | |
| Second lien | A+ | A2 | А | | | | | | | |
| Junior lien | A+ | N/A | N/A | | | | | | | |
| Outlook | Stable | Stable | Stable | | | | | | | |
| Sewage Disposal System | n Revenue Bonds | | | | | | | | | |
| Senior lien | AA- | A1 | A+ | | | | | | | |
| Second lien | A+ | A2 | А | | | | | | | |
| Junior lien | A+ | N/A | N/A | | | | | | | |
| Outlook | Stable | Stable | Stable | | | | | | | |

Debt Allocation: GLWA has over \$2.3 billion in water system debt and nearly \$2.9 billion in sewer system debt for a combined total of over \$5.2 billion. Debt within each system is prioritized according to its security interest, or lien category, with senior lien debt having the highest security interest, followed by second lien and finally junior lien.



Chart 1 - Debt Type by Lien – Water provides a breakdown of the total water system debt for both the regional and local systems by lien type.

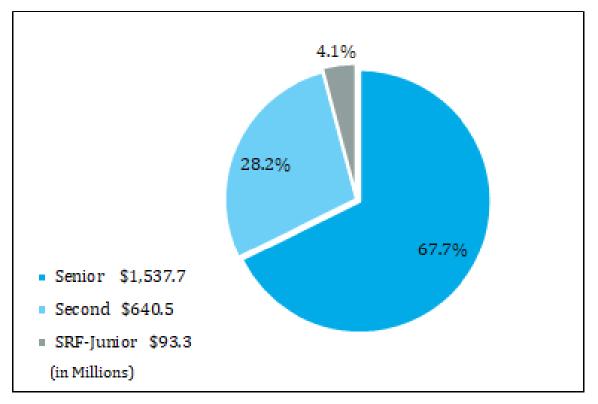


Chart 2 - Debt Type by Lien – Sewer provides a breakdown of the total sewer system debt for both the regional and local systems by lien type.

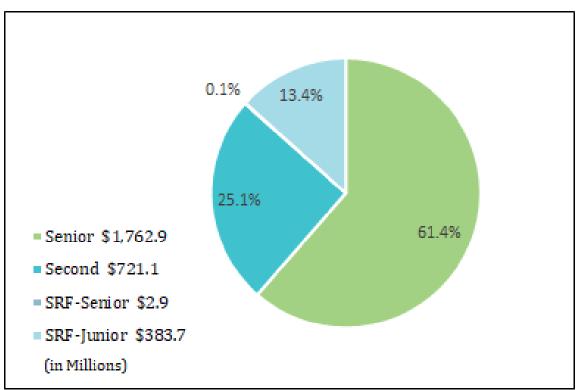




Chart 3 – Annual Debt Service Payments by Lien – Water provides the annual debt service installment requirements for each fiscal year.

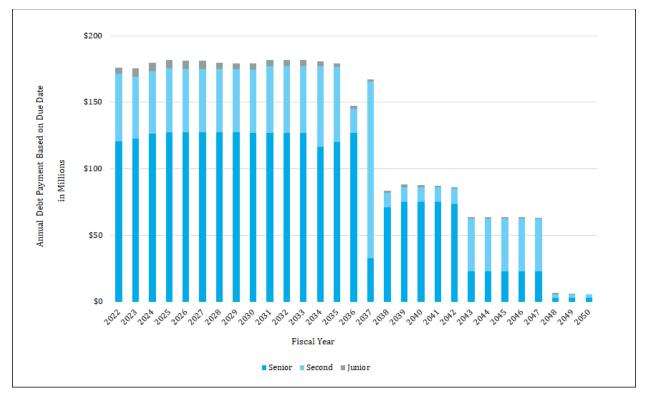
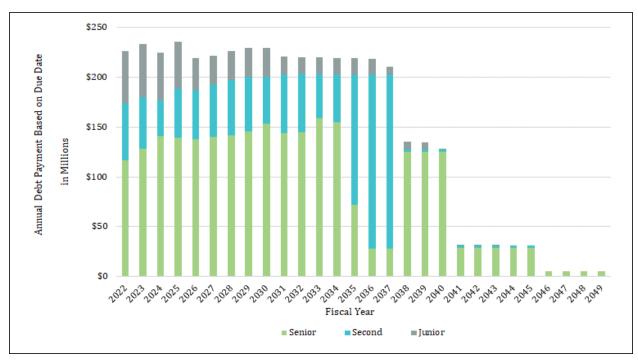


Chart 4 – Annual Debt Service Payments by Lien – Sewer provides the annual debt service installment requirements for each fiscal year.



Note: The figures in these charts reflect the debt service installment requirements for each fiscal year, which are required by the MBO to be set aside monthly in advance of actual payment dates. This information will differ from the Annual Comprehensive Financial Report which reflects when the actual payments are made to the bond paying agent.



State of Michigan's State Revolving Fund (SRF) Programs: GLWA participates in the State's Clean Water Revolving Fund (CWRF) to finance qualified sewage disposal system projects and the State's Drinking Water Revolving Fund (DWRF) to finance qualified water supply system projects. For the purposes of this report, both water and sewer projects financed through these programs will be referred to as either water or sewer SRF loans.

These loan programs have interest rates that are well below open market interest rates (usually between 1.875% and 2.5%) and are repaid over 20-30 years. For the state's FY 2022, the DWRF and CWRF program rates are 1.875% for 20-year loans and 2.125% for 30-year loans.

Funds are disbursed as construction payments are made. Interest on each loan is based on the amount of funds drawn and not the full loan amount. GLWA must submit project plans to the Michigan Department of Environment, Great Lakes, and Energy ("EGLE", and formerly known as the Michigan Department of Environmental Quality or MDEQ) for each project by the annual submission date (July 1 for DWRF and June 1 for CWRF) to be considered for the State's funding pool for the following fiscal year.

State Revolving Fund Loans: GLWA's strategy is to maximize its use of SRF loans to finance qualified capital projects. GLWA currently has \$93.3 million in outstanding water SRF loans and \$386.6 million in outstanding sewer SRF loans.

Table 4 - Active SRF Project Summary provides information regarding each loan including the loan award date which is also referred to as the Order of Approval date by the State of Michigan.

| State Loan # | Description | Order of Approval | Project Total (\$ Millions) |
|---------------|---|-------------------|--------------------------------|
| SRF Water - D | WSD Projects | | |
| 7447-01 | Water Main Replacement (WS-707 & 714) | 8/9/2019 | \$16.5 |
| 7460-01 | Water Main Replacement (WS-710 & WS-711) | 7/15/2020 | \$22.6 |
| 7483-01 | Water Main Replacement (WS-715 & WS-718) | 9/9/2020 | \$13.4 |
| 7484-01 | Water Main Replacement - Jefferson Chalmers (WS-713) | 8/6/2021 | \$12.8 |
| SRF Water - G | LWA Projects | | |
| 7445-01 | Northeast Transmission Phase 1 | 8/9/2019 | \$30.0 |
| 7445-02 | Northeast Transmission Main - Phase 2a | 8/7/2020 | \$9.0 |
| 7445-04 | Northeast Transmission Main - Phase 3a | 5/28/2021 | \$11.9 |
| 7446-01 | Lake Huron Sludge System-Raw Sludge Clarifiers | 5/17/2019 | \$8.3 |
| 7461-01 | 14 Mile Transmission Main Loop - Phase 1 | 8/7/2020 | \$9.0 |
| 7461-02 | 14 Mile Transmission Main Loop - Phase 2 | 8/6/2021 | \$104.7 |
| | | Total Water | \$238.2 |
| SRF Sewer - D | WSD Projects | | |
| 5688-01 | Sewer Main Rehab/Rplcmt (DWS-916) - Project A | 9/9/2020 | \$4.0 |
| 5706-01 | Sewer Main Replacements - Project B (DWS-917 & DWS-918) | 9/9/2021 | \$9.2 |
| SRF Sewer - G | LWA Projects | | |
| 5655-02 | Detroit River Interceptor Segment 2 | 3/27/2020 | \$28.4 |
| 5673-01 | PS-1 Ferric Chloride System Rehabilitation | 2/26/2021 | \$12.9 |
| | | Total Sewer | \$54.5 |



Chart 5 - Open State Revolving Fund Loans summarizes all current SRF loans held by GLWA (including financings on behalf of DWSD) that are active (reference Table 4 above for project descriptions). It summarizes the original award amount remaining and the amount drawn down as of December 31, 2021 for each loan. On December 31, 2021, the amount of SRF loans authorized and unissued is \$161.0 million for the Water fund and \$38.1 million for the Sewage Disposal Fund.

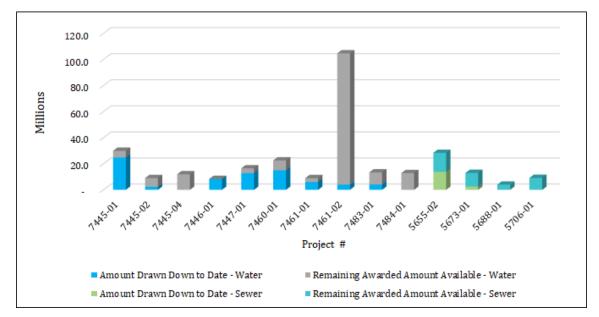


Table 5 - Project Plan Approved by EGLE identifies projects approved by the EGLE but for which applications had not yet been submitted for funding as of December 31, 2021.

| Project Owner | Description | E | stimated Loan Amount | Anticipated Funding Date |
|------------------|---|----|-------------------------|-----------------------------|
| Water SRF | | | | |
| DWSD | Lead Service Line Water Main Replacement (WS-721) | \$ | 1,000,000 | 2Q 2022 |
| GLWA | 96-inch Water Transmission Main Relocation Project - Phase 1 | \$ | 31,000,000 | 3.5Q 2022 |
| GLWA | 96-inch Water Transmission Main Relocation Project - Phase 2 | \$ | 111,000,000 | 4.5Q 2022 |
| GLWA | Ypsilanti Pumping Station | \$ | 36,700,000 | FY 2023 |
| GLWA | Northeast Transmission Main - Phase 2b | \$ | 92,000,000 | FY 2023 |
| GLWA | Northeast Transmission Main - Phase 3b | \$ | 80,294,000 | FY 2024 |
| Total Water | SRF | \$ | 351,994,000 | |
| Sewer SRF | | I | | |
| GLWA | Detroit River Interceptor - Financial Segment | \$ | 38,000,000 | 3Q 2022 |
| GLWA | Connor Creek Sewer System Rehabilitation | \$ | 56,900,000 | 4Q 2022 |

In-System Storage Device and Dam and Valve Remote

Evaluation and Rehabilitation

Total Sewer SRF

GLWA

\$ 105,500,000

10,600,000

\$

1.5Q FY 2023



DWSD Obligation Receivable: GLWA holds an obligation receivable from DWSD as an asset to account for the amount due for financing local system capital projects. DWSD carries a like amount of this as an obligation payable on its statement of net assets.

There are three components to the calculation of the DWSD obligation receivable. These are:

- a) an agreed upon amount for pre-January 1, 2016 (i.e. "pre-bifurcation") debt as documented in a 2018 Memorandum of Understanding (\$455 million for water system and \$370 million for sewer per agreed-upon amortization schedules),
- b) new revenue bonds issued after January 1, 2016 to specifically fund the DWSD local system capital improvement projects which are payable based on the allocable share of the actual bonds debt service schedule, and
- c) SRF loans issued after January 1, 2016 for specific DWSD capital projects which are payable based on the allocable share of the actual loan payment schedule.

All retail customer revenues are deposited into a trust to fund these financial obligations in accordance with the MBO flow of funds.

Chart 6 - DWSD Obligation Receivable by Type summarizes the total DWSD obligation receivable balance for both Water and Sewer as of December 31, 2021 by pre-bifurcation, revenue bond and SRF component.

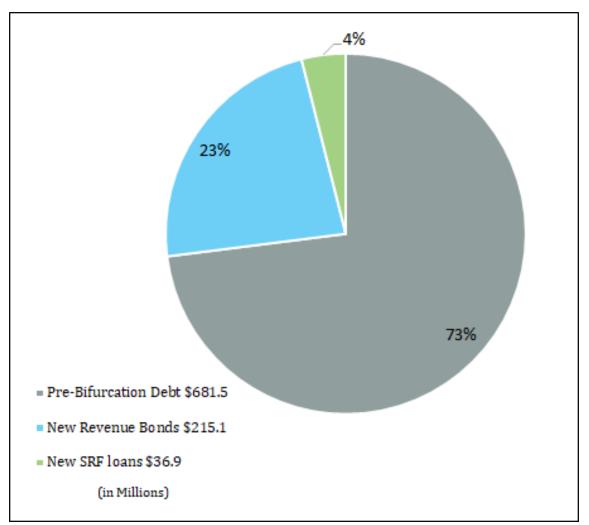




Chart **7** – *Obligation Receivable Compared to Total Debt* - *Water* provides context by comparing the Water System Obligation Receivable to the Total Water Debt (excludes unamortized premiums).

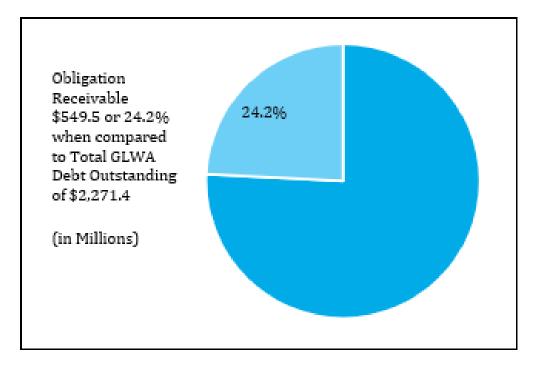


Chart 8 – Obligation Receivable Compared to Total Debt - Sewer provides context by comparing the Sewer System Obligation Receivable to the Total Sewer Debt (excludes unamortized premiums).

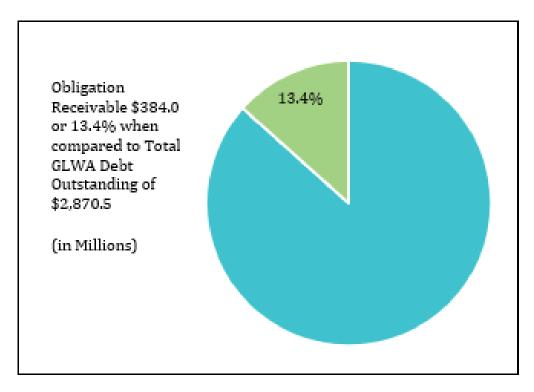




Table 6 - DWSD Obligation Receivable provides obligation receivable detail including fiscal year 2022 beginning balances by debt type and loan issue (for revenue bonds and SRF loans), year-to-date activity and ending balances as of December 31, 2021. Total DWSD debt totals \$962 million. This differs slightly from the total in Chart 6 due to the inclusion of unamortized premiums.

| Dalt Turne | July 1, 2021 | T | D | | December 31, 2021 End Balance |
|-----------------------|--------------|------------|-------------|-------------|----------------------------------|
| Debt Type | Beg Balance | Increase | Decrease | Forgiveness | End Balance |
| Pre-Bifurcation Debt | ¢ 000.044 | DWSD Wa | | | \$ 376.257 |
| | \$ 383,841 | b - | \$ (7,584) | 3 | |
| Revenue Bond - 2016A | 17,725 | - | - | - | 17,725 |
| Revenue Bond - 2016B | 33,015 | - | - | - | 33,015 |
| Revenue Bond - 2020A | 42,445 | - | - | - | 42,445 |
| Revenue Bond - 2020B | 43,135 | - | - | - | 43,135 |
| SRF 7412-01 | 4,842 | - | - | - | 4,842 |
| SRF 7413-01 | 3,139 | - | - | - | 3,139 |
| SRF 7414-01 | 5,503 | - | (155) | - | 5,348 |
| SRF 7447-01 | 7,684 | 347 | (288) | - | 7,743 |
| SRF 7460-01 | 7,718 | 5,247 | - | - | 12,965 |
| SRF 7483-01 | - | 3,219 | - | (327) | 2,892 |
| Total DWSD Obligation | 549,046 | 8,814 | (8,027) | (327) | 549,506 |
| Unamortized Premiums | 19,606 | - | (366) | | 19,240 |
| Subtotal: Water | 568,652 | 8,814 | (8,393) | (327) | 568,746 |
| | | DWSD Sev | wer | | |
| Pre-Bifurcation Debt | 311,584 | - | (6,390) | - | 305,194 |
| Revenue Bond - 2018A | 78,810 | - | - | - | 78,810 |
| SRF 5688-01 | - | 46 | - | (46) | - |
| Total DWSD Obligation | 390,394 | 46 | (6,436) | (46) | 384,004 |
| Unamortized Premiums | 8,962 | - | (194) | - | 8,768 |
| Subtotal: Sewer | 399,356 | 46 | (6,630) | (46) | 392,771 |
| Total DWSD Debt | \$ 968,008 | \$ 8,860 | \$ (15,023) | \$ (373) | \$ 961,517 |



Table 7 – Loan Forgiveness provides a summary of loan principal forgiven on DWSD SRF loans closed after January 1, 2016. EGLE grants principal loan forgiveness on qualified planning costs for disadvantaged communities. Through December 31, 2021, over \$16.4 million or 16% of approved, DWSD SRF loans have been forgiven as a disadvantaged community.

| | Approved | Loan |
|-----------------|----------------|---------------|
| State Loan # | Amount | Forgiveness |
| DV | VSD Water SRF | |
| SRF 7412-01 | 10,605,000 | 1,000,000 |
| SRF 7413-01 | 5,180,000 | 1,000,000 |
| SRF 7414-01 | 8,675,000 | 2,000,000 |
| SRF 7447-01 | 16,500,000 | 4,711,944 |
| SRF 7460-01 | 22,570,000 | 2,031,300 |
| SRF 7483-01 | 13,355,000 | 1,201,950 |
| SRF 7484-01 | 12,845,000 | 1,316,050 |
| Subtotal: Water | 89,730,000 | 13,261,244 |
| DV | VSD Sewer SRF | |
| SRF 5688-01 | 4,040,000 | 808,000 |
| SRF 5706-01 | 9,175,000 | 2,293,750 |
| Subtotal: Sewer | 13,215,000 | 3,101,750 |
| Total DWSD Debt | \$ 102,945,000 | \$ 16,362,994 |

Table 7 - DWSD SRF Loan Forgiveness

Annual Change in Outstanding Debt: It is the goal of GLWA to ensure the long-term sustainability of the water and sewer systems. One of the best ways to accomplish this is by reducing the debt service payments on existing bonds as well as reducing the amounts of future bond issues by using revenue financed capital.

Table 8 - Long-Term Debt Summary provides a detail of GLWA's fiscal year 2021 beginning balances by debt type and loan issues, year-to-date activity, and ending balances as of December 31, 2021. GLWA debt includes financing for both the regional and local share.

| | June 30, 2021 | | | Debt | December 31, 2021 |
|------------------------------------|---------------|--------------|-------------|-------------|-------------------|
| Debt Type | Beg Balance | Increase | Decrease | Forgiveness | End Balance |
| | | | Water Fund | | |
| Revenue Bonds | \$ 2,192,510 | \$- | \$ (14,390) | \$- | \$ 2,178,120 |
| State Revolving Loans | 71,260 | 24,675 | (2,343) | (327) | 93,265 |
| Total Installment Debt | 2,263,770 | 24,675 | (16,733) | (327) | 2,271,385 |
| Unamortized Premiums / Discounts | 176,122 | - | (7,556) | - | 168,566 |
| Subtotal: Water | 2,439,892 | 24,675 | (24,289) | (327) | 2,439,951 |
| | | | Sewer Fund | l | |
| Revenue Bonds | 2,515,455 | - | (31,545) | - | 2,483,910 |
| Capital Appreciation bonds | 5,675 | - | (5,675) | - | - |
| State Revolving Loans | 416,768 | 5,089 | (35,225) | (46) | 386,586 |
| Total Installment Debt | 2,937,898 | 5,089 | (72,445) | (46) | 2,870,496 |
| Capital Appreciation Bond Discount | (171) | - | 171 | - | - |
| Unamortized Premiums / Discounts | 62,187 | - | (1,773) | - | 60,415 |
| Subtotal: Sewer | 2,999,914 | <i>5,089</i> | (74,047) | (46) | 2,930,911 |
| Total Combined, Long Term Debt | \$ 5,439,806 | \$ 29,764 | \$ (98,336) | \$ (373) | \$ 5,370,862 |



Debt Service Coverage

GLWA is committed to ensuring the long-term sustainability of the water and sewer systems and has pledged specific revenue streams to secure the repayment of the revenue bonds and SRF loans associated with them. The MBO establishes minimum debt coverage levels at 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 debt held on behalf of both GLWA and DWSD.

GLWA computes the debt service coverage ratio using two different methodologies. The Rate Covenant Basis uses a pledged revenue on a cash basis methodology and the GAAP Basis uses a pledged revenue on an accrual basis methodology. Pledged revenue is divided by the debt service requirements of each lien on a rate covenant basis to compute the debt service coverage ratio. The rate covenant basis is defined as the cash available to make the debt service payments on the due dates. The table below details the components of the pledged revenue for each methodology.

| Components of Pledged Revenue | Pledged Revenue Calculation | Rate Covenant Basis | GAAP Basis |
|------------------------------------|-----------------------------------|---------------------------|---------------------------|
| Revenues | Addition | Cash basis | Accrual basis |
| GLWA 0&M expenses | Subtraction | Cash basis | Accrual basis |
| GLWA 0&M pension | Subtraction | Cash basis | Cash basis |
| DWSD 0&M expenses & 0&M pension | Subtraction | Cash transfers to DWSD | Cash transfers to DWSD |

Table 9: Debt Service Coverage Ratios - Water provides a summary of the MBO required minimum, historical, and budgeted debt service coverage ratios for the Water fund.

| Debt Service Coverage Water Fund | | | | | | | | | | |
|--------------------------------------|----------------------------|----------------|----------------|----------------|----------------|----------------|---------------------------|--|--|--|
| | MBO Required Minimum | Actual 2017 | Actual 2018 | Actual 2019 | Actual 2020 | Actual 2021 | Adopted Budget 2022 | | | |
| Rate Covenant Basis | | | | | | | | | | |
| Senior Lien Bonds | 1.20 | 2.03 | 2.07 | 2.13 | 1.94 | 1.99 | 1.89 | | | |
| Senior and second lien bonds | 1.10 | 1.57 | 1.55 | 1.54 | 1.39 | 1.40 | 1.37 | | | |
| All bonds, including SRF junior lien | 1.00 | 1.56 | 1.53 | 1.51 | 1.37 | 1.38 | 1.32 | | | |
| GAAP Basis | | | | | | | | | | |
| Senior Lien Bonds | | 2.10 | 2.12 | 2.04 | 1.98 | 1.99 | | | | |
| Senior and second lien bonds | | 1.63 | 1.59 | 1.47 | 1.43 | 1.40 | | | | |
| All bonds, including SRF junior lien | | 1.61 | 1.57 | 1.45 | 1.40 | 1.38 | | | | |



Debt Service Coverage Sewage Disposal Fund MBO Adopted Required Budget Actual Actual Actual Actual Actual Minimum 2022 2017 2018 2019 2020 2021 **Rate Covenant Basis** 2.02 2.04 2.11 2.15 2.92 2.42 Senior Lien Bonds 1.20 Senior and second lien bonds 1.51 1.97 1.74 1.10 1.56 1.621.64 All bonds, including SRF junior lien 1.00 1.21 1.25 1.29 1.29 1.51 1.35 **GAAP Basis** Senior Lien Bonds 2.49 2.10 2.55 2.20 2.16 Senior and second lien bonds 1.86 1.97 1.68 1.621.65 All bonds, including SRF junior lien 1.50 1.34 1.28 1.30 1.51

Table 10: Debt Service Coverage Ratios - Sewer provides a summary of the MBO required minimum, historical, and budgeted debt service coverage ratios for the Sewer fund.

Refinancing

To reduce the annual water and sewer debt service payments, GLWA monitors its outstanding water and sewer debt portfolios to determine if it can refund existing bond issues with new, lower interest rate bonds. At least once per year, GLWA's registered municipal advisor, PFM Financial Advisors, LLC (PFM) prepares an analysis of GLWA's bond refunding opportunities based on the current municipal interest rate environment and the existing debt service on GLWA's callable bonds.

In May 2020, GLWA completed a \$463.1 million Water Supply System Revenue and Revenue Refunding bond transaction. This included a \$377.5 million taxable bond refinancing transaction with an additional \$85.6 million in tax-exempt new money to support the DWSD local system capital improvements. The refunding transaction resulted in \$66.5 million of present value savings for the water system. In June 2020, GLWA completed a \$687 million Sewage Disposal System Revenue Refunding taxable bond transaction resulting in present value savings of \$123 million for the sewage disposal system.

As part of the May and June 2020 transactions noted, funds from the refunding bonds have been placed in an irrevocable trust with an escrow agent to pay off this debt on the next available call dates. The bonds to be refunded are considered defeased and have been removed from GLWA's statement of net position.



Table 11: Defeased Debt provides a summary of the debt which has been defeased and the call dates.

| Defeased Debt - Sewage Disposal Fund | | | | | | |
|--|----|-------------|--------------|-----------------------------|--|--|
| Bond Series to be Refunded | | Amount | Call Date | Bond Issue Refunded By | | |
| Series 2012A | \$ | 419,810,000 | July 1, 2022 | Series 2020A & Series 2020B | | |
| Series 2014C-1 | \$ | 123,200,000 | July 1, 2022 | Series 2020A & Series 2020B | | |
| Series 2014C-2 | \$ | 27,450,000 | July 1, 2022 | Series 2020A & Series 2020B | | |
| Total Defeased Sewage Disposal Fund Debt | \$ | 570,460,000 | | | | |

The next available refunding opportunity will be for bonds with a call date of July 1, 2024, for both the water fund and sewage disposal fund. Approximately \$390.4 million in water bonds and \$392.5 million in sewer bonds will be callable at that time. GLWA will continue to work with its registered municipal advisor to monitor the potential for refunding these bonds.



Annual Procurement Report for the Fiscal Year Ending June 30, 2021

Annual Procurement Report for FY 2021 includes the following:

- 1. Report Highlights
- 2. Key Terms & Assumptions
- 3. Fiscal Year Analysis of awarded Purchase Orders executed in FY 2021
- 4. Fiscal Year Analysis of Invoices processed for payment in FY 2021
- 5. Detailed Appendices

Pursuant to the Great Lakes Water Authority By-Laws Article XII, Section 4, GLWA Procurement provides an annual report summarizing all awarded Purchase Orders and/or Contracts by the GLWA in the previous fiscal year. In addition, <u>this year's report provides</u> <u>statistics and analysis based on actual Invoice spend for FY 2021.</u>

The GLWA Procurement Team is a strategic cross-functional partner whose goal within the Financial Services Area (FSA) is to provide and manage effective procurement processes and procedures for the acquisition of quality goods and services in support of the Great Lakes Water Authority's mission and goals. GLWA Procurement utilizes the Bonfire Public Procurement application to manage the process of gathering, reviewing, awarding, and monitoring contracts and services with vendors. This system is used in tandem with the GLWA BS&A (the primary source for these reports) financial system to assign requisitions, purchase orders, and to ultimately process vendor payments. The GLWA Procurement team works very closely with other FSA teams throughout the process of the procure to pay cycle.

The information contained in this report is a comprehensive compilation of data from these systems organized in a manner that not only satisfies the base requirement of the GLWA By-Laws but also highlights key insights and trends apparent to the GLWA FSA team upon review. Following review by the GLWA Audit Committee, this information will be available on the GLWA website Vendors page at <u>www.glwater.org</u> where you can also find an entire section dedicated to vendors and communication of GLWA procurement policies, programs, and current solicitations.



Report Highlights

GLWA Procurement Team Objectives (relevant to report)

- ✓ Ensure all purchases (requisitions, purchase orders and contracts) go through the approved procurement processes and meet or exceed the requirements of GLWA's internal customers and goals.
- ✓ Strategically optimize the percentage of awards attributed to a contract.
- ✓ Identify, procure, manage, and maintain strategic suppliers and key contracts.

Contracts/Purchase Order (Awarded by Procurement) Totals

- ✓ Procurement awarded for FY 2021 totaled \$311.5 million.
- ✓ Procurement executed 3,427 purchase orders and 173 Contracts.
- ✓ Procurement processed 4,291 requisitions.
- ✓ Over 90% of all awarded purchase orders are connected to a formal contract.

Invoice (Accounts Payable) Totals

- ✓ Total combined spend by invoice for FY 2021 totaled \$413.1 million.
- ✓ Accounts Payable processed 20,528 Invoices including payments relating to 3,799 purchase orders.
- ✓ Invoice payments directly attributable to a purchase order totaled \$352.5 million.



Key Terms & Assumptions

Following are key terms that will assist the reader in understanding the information presented in this report.

- <u>Capital Improvement Plan (CIP)</u>: Spend related to capital projects and equipment purchases.
- <u>Capital Outlay</u>: Spend related to either purchasing a fixed asset or to extent its useful life.
- <u>Contract</u>: A written binding agreement between GLWA and outside vendors predominantly based on GLWA's Terms and Conditions. <u>All contracts are associated with an approved purchase order</u>.
- <u>Fiscal Year:</u> GLWA's one year period used for financial reporting extending from July 1 to June 30 the following year.
- <u>Invoice:</u> Issued by the seller/vendor to acquire payment and includes an itemized list of goods shipped specifying the price, products, and quantities. Invoices are reported by payment (check or EFT) paid date.
- <u>Operation and Maintenance (O&M)</u>: Cost associated with continuing daily operations and repairs and part replacements to extend life of assets.
- <u>Purchase Order (PO)</u>: A document generated by GLWA that authorizes a purchase transaction. When accepted by the seller/vendor, it becomes a contract binding on both parties. Purchase Orders are reported by post-date. Not all Purchase Orders are tied to a formal Contract.
- <u>Requisitions:</u> A formal request for obtaining a good and/or service including supplies, raw materials, construction projects, and services. It is also used in requesting additional amendments and change orders for current purchase orders and contracts.

In addition to these key terms, certain assumptions were utilized in the presentation of this information. Key assumptions include the following:

- Purchase order data presented is based on the date the approved purchase order transaction was posted to the general ledger for accounting purposes.
- Invoice data presented is also based on the date the invoice is posted to the general ledger for accounting purposes.
- Purchase order amounts do not remain static, unlike Invoice totals.
- Procurement continually processes amendments (including renewals) and change orders that can decrease or more often increase the purchase order total and those changes impact the original fiscal year totals.



Fiscal Year Award Analysis

The following tables and charts highlight GLWA Procurements activity and **purchase** orders/contracts awarded and executed in FY 2021.

Table 1 – GLWA FY 2021 Total Combined Contracts/Purchase Orders Awards. This chart identifies contracts/purchase orders awarded by Procurement. Procurement processed 3,427 purchase orders and 4,291 requisitions totaling \$311.5 million in FY 2021.

 Table 1 – GLWA FY 2021 Total Combined Contracts/Purchase Orders Awards

| Award Type | Purchase Order Count | Requisition Count (including Amendments) | Awarded Amount (Millions) | Percentage of Total |
|---------------------------------|-------------------------|---|------------------------------|------------------------|
| Contract tied to Purchase Order | 260 | 460 | \$281.3 | 90.31% |
| Purchase Order | 3,168 | 3,831 | \$30.2 | 9.69% |
| Grand Total FY 2021 | 3,427 | 4,291 | \$311.5 | 100.00% |

Chart 1 highlights Awarded Contracts/Purchase Orders as a % of Purchase Orders

Issued with an emphasis on awarding under a formal contract. In addition to providing legal safeguards and quality of services protections, contracts restrain costs by reducing the number of PO's and combining purchases to drive down cost. In FY 2021 Procurement awarded \$281.3 million or 90% of the total awarded spend directly tied to a formal agreement (contract).





Table 2 - Average Amount of Contracts and Purchase Orders FY 2021.The averageContract awarded by Procurement was just over a million dollars.

 Table 2 – Average Amount of Contracts and Purchase Orders FY 2021

| Award Type | Purchase Order Count | Awarded Amount (Millions) | Average Amount of PO/Contract |
|--|----------------------|------------------------------|----------------------------------|
| Contract Attached to Purchase Order | 260 | \$281.3 | \$1,081,790 |
| Purchase Order | 3,168 | \$30.2 | \$9,532 |
| Grand Total FY 2021 | 3,427 | \$311.5 | \$90,885 |

<u>Awards by Contract</u> - Large contracts ensure successful timetables are met and projects are completed to the satisfaction all GLWA stakeholders.

Table 3 - FY 2021 Top Ten Largest Contracts awarded by Dollar Value. These top ten contracts represent \$160.4 million or 51% of the total awarded Contracts/Purchase Orders for FY 2021. A complete listing of contracts awarded over a million dollars for fiscal year 2021 can be found in Appendix A.



| CONTRACT | VENDOR | Contract Description | Awarded Amount (Millions) | Percentage of Total |
|-------------|------------------------------|--|------------------------------|------------------------|
| 2000610 | Lakeshore Global Corporation | CIP 115001 Piping, Valves & Venturi Meters | \$49.5 | 16% |
| 1803990 | Weiss Construction Co LLC | CIP 111009 LHWTP High Lift Pumps, Flow Meter & Yard | \$30.0 | 10% |
| 2001488 | Pullman SST, Inc. | CIP 122017 7 Mile / Nevada transmission main | \$12.9 | 4% |
| 1902224 | Pullman SST, Inc. | CIP 260614 DB CSO Facilities Structure | \$12.1 | 4% |
| 2004889 | Lakeshore Global Corporation | Specialized Services - Staff Augmentation - 2 Yr. Contract | \$11.4 | 4% |
| 1904337 | Hazen and Sawyer | WRRF PS-2 Bar Racks Replace & Grit Collection System | \$11.3 | 4% |
| 2002190 | Weiss Construction Co LLC | CIP 211008 Ferric Chloride/PS1 & Complex B Sludge Lines | \$9.8 | 3% |
| 1904254 | Dan's Excavating Inc. | CIP 122003 WWP to NEWTP Phase #2 | \$8.3 | 3% |
| 1904197 | LimnoTech | GLWA Long Term CSO Control Plan Update. | \$7.7 | 2% |
| 2003443 | FK Engineering Associates | CIP 260206/260510 Design Services Conveyance System | \$7.3 | 2% |
| Top Ten Sul | ototal | | \$160.4 | 51% |
| Total Combi | ined Executed Contracts | | \$281.3 | 90% |
| Grand Total | | | \$311.5 | 100% |

Table 3 - FY 2021 Top Ten Largest Contracts awarded by Dollar Value

<u>Awards by Vendor</u> - Procurement understands that strategic vendors are integral to the success of GLWA.

Table 4 – FY 2021 Top Ten Vendor Total Awards. These Top Ten vendors represent \$191.8 million or 62% of the total awarded Contracts/Purchase Orders for FY 2021. A complete list of combined awards for all vendor issued in FY 2021 can be found in the Appendix B.

Table 4 - FY 2021 Top Ten Vendor Total Awards

| Top Ten Awarded Vendors | Contract Count | Purchase Order Count | Awarded Amount (Millions) | Percentage of Total |
|---|----------------|-------------------------|------------------------------|------------------------|
| Lakeshore Global Corporation | 3 | 3 | \$60.7 | 19% |
| Weiss Construction Co LLC | 2 | 2 | \$39.9 | 13% |
| Pullman SST, Inc. | 2 | 2 | \$25.0 | 8% |
| Commercial Contracting Corporation | 4 | 4 | \$13.0 | 4% |
| FK Engineering Associates | 2 | 2 | \$12.9 | 4% |
| Hazen and Sawyer | 1 | 1 | \$11.3 | 4% |
| Dan's Excavating Inc. | 1 | 1 | \$8.3 | 3% |
| LimnoTech | 1 | 1 | \$7.7 | 2% |
| Johnson Controls Inc. | 3 | 5 | \$6.6 | 2% |
| Motor City Electric Co | 4 | 10 | \$6.3 | 2% |
| Top Ten Subtotal | 22 | 31 | \$191.8 | 62% |
| Grand Total | 173 | 3,427 | \$311.5 | 100% |



Fiscal Year Spend Analysis

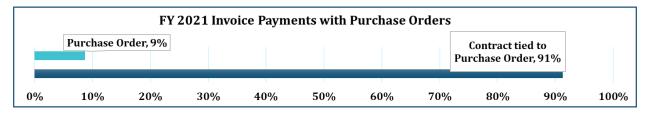
The following tables and charts highlight GLWA Accounts Payable activity and **paid invoice totals for FY 2021.**

Table 5 - This table identifies GLWA's total spend by Invoice for FY 2021. The spend is further divided by purchase type. Both contracts and purchase orders have been awarded by Procurement prior to any invoicing by the vendor. <u>Invoices directly related to a purchase order totaled \$352.5 million representing 85% of total spend</u>. Invoices paid <u>without a purchase order</u> are typically for utilities, telecom, employee benefits, state, federal and local governments, and agencies. Invoices without a purchase order totaled \$60.5 million and represent less than 15% of total annual spend.

| Invoice Payment Type | Invoice Count | Purchase Order Count | Total Amount (Millions) | Percentage of Total |
|---------------------------------|---------------|-------------------------|----------------------------|------------------------|
| Contract tied to Purchase Order | 6,877 | 581 | \$321.8 | 77.91% |
| No Purchase Order | 6,970 | 0 | \$60.5 | 14.65% |
| Purchase Order | 6,712 | 3218 | \$30.7 | 7.44% |
| Grand Total | 20,528 | 3799 | \$413.1 | 100% |

Chart 2 – Total Spend directly related to a Purchase Order Award (with or without a Contract). This chart emphasizes Procurements focus on identifying opportunities to capturing as much spend as possible under the safeguards of a formal contract. The majority 91% of all purchase orders and 78% of all GLWA spend is directly related to a Contract.

Chart 2 – Total Spend directly related to a Purchase Order Award



Expense Type and Project - Combined invoiced totals by Expense Type and Project.

Chart 3 – Total Spend by Expense Type compares the total type of spend awarded between Operations and Maintenance (P&M), Capital Improvement Plan (CIP), and Capital Outlay.



Chart 3 – Total Spend by Expense Type

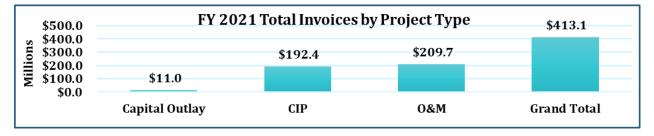


Table 6 - Top 10 Projects under each Expense Type identifies the top projects invoices during the fiscal year. These combined top ten projects represent 67% of the total spend for FY 2021.

Table 6 - Top 10 Projects Invoiced FY 2021

| Project Type & Description | Amount (Millions) | Percentage of Total Amount |
|--|-------------------|----------------------------|
| 0&M | | |
| Water Administration and General Expense | \$44.4 | 16.17% |
| Sewerage Treatment Operations | \$32.1 | 11.67% |
| Water Low Lift Pump Operations | \$17.0 | 6.19% |
| Sewer Plant Administration | \$15.1 | 5.49% |
| Water Care & Maint Tunnels-Detroit | \$10.9 | 3.98% |
| Water Source of Supply Operations | \$10.5 | 3.82% |
| Water Pumping Stations Operations | \$9.7 | 3.55% |
| CSO - Control Basins Operations | \$7.2 | 2.61% |
| Water General Operating & Maintenance | \$6.9 | 2.52% |
| Water System Control Center Operations | \$4.2 | 1.53% |
| O&M Total | \$158.0 | 57.52% |
| CIP | | |
| Fairview Sewage Pumping Station Imprvmts | \$16.0 | 5.81% |
| CON-183: DB 223 Inland Waters: | \$14.8 | 5.39% |
| WWP to NEWP Transmission Main | \$13.2 | 4.79% |
| PA,SW and NE Raw Water Supply Tunnel Imp | \$11.0 | 4.00% |
| Transmission Work: Wick Road Parallel | \$10.4 | 3.80% |
| CON-149: Inland: DRI Sec Insp,Eval,Des | \$8.6 | 3.11% |
| Imlay, WCS,LH,SP,SW Reservoir Inspection | \$7.7 | 2.81% |
| Sedimentation Basin Sluice Juice at SWTP | \$7.6 | 2.78% |
| Steam,Consendate Return Improvement SWTP | \$7.3 | 2.66% |
| 96" Main Relocation Isolation Valve Ins | \$7.3 | 2.64% |
| CIP Total | \$103.8 | 37.79% |
| Capital Outlay | | |
| Centralized Services I&E | \$4.9 | 1.77% |
| Sewer I&E | \$4.1 | 1.48% |
| I&E Water Fund | \$2.0 | 0.74% |
| Water Administration and General Expense | \$1.5 | 0.54% |
| Water General Operating & Maintenance | \$0.2 | 0.07% |
| Puritan Fenkell/7 Mile CSO Inst Upgrade | \$0.1 | 0.03% |
| Sewer Operations Secondary Sedimentation | \$0.1 | 0.02% |
| Sewerage Treatment Operations | \$0.0 | 0.01% |
| Sewer Operations Primary Sedimentation | \$0.0 | 0.01% |
| CSO - Control Basins Operations | \$0.0 | 0.01% |
| Capital Outlay Total | \$12.9 | 4.69% |
| Subtotal Top Ten | \$274.7 | 66.51% |
| Grand Total | \$413.1 | 100.00% |



Top Ten Contracts – Key Contracts comprising a majority of actual spend FY 2021.

Table 7 – Top 10 Contracts in actual spend for FY 2021 provides a list of the largest contracts that captured FY 2021 spend. These ten contracts account for \$126.4 million or 30% of FY 2021 total spend. A complete listing of contracts with over a million dollars in spend for FY 2021 can be found in Appendix C.

| Table 7 – Ton | 10 Contracts in | actual spend | for FY 2021 |
|---------------|-----------------|--------------|--------------|
| 100107 100 | | uctuur spenu | JUI I I 2021 |

| Contract Number | Vendor | Contract Description | Amount (Millions) | Percentage Total |
|-------------------|--|---|----------------------|---------------------|
| GLWA-CON-149 | Inland Waters Pollution Control Inc | Emergency Sewer Repair | \$16.2 | 4% |
| GLWA-DB-226 | Jay Dee Contractors Inc. | Repair & Rehab (DRI) from Alter Road to WWRF | \$15.6 | 4% |
| GLWA-CON-297 | Weiss Construction Co LLC | Fairview Sewage Pumping Station Improvements | \$15.2 | 4% |
| GLWA-CS-272 | AECOM Great Lakes, Inc | Capitol Improvement Program Delivery | \$13.7 | 3% |
| GLWA-PC-792 | New England Fertilizer Company | Biosolids Dryer Facility | \$13.1 | 3% |
| 1803258 | Walsh Construction Company | CIP 122003 WW Northeast Transmission Project | \$12.7 | 3% |
| GLWA-DB-150 | Ballard Marine Construction LLC | CIP 1327 DB/ Repair PA, Springwell & NE Tunnels | \$11.3 | 3% |
| 1803621 | Ric-Man Construction Inc | CIP # 122006 Wick Road 48" Water Main | \$10.7 | 3% |
| 1901658 | Lakeshore Global Corporation | Facilities Maintenance Services | \$9.1 | 2% |
| GLWA-CON-252 | Clark Construction Company | SWTP Steam/Condensate Return, & Compress Air | \$8.7 | 2% |
| Top Ten Subtotal | | | \$126.4 | 31% |
| Total Combined In | voiced Contracts | | \$321.8 | 78% |
| Grand Total | | | \$413.1 | 100% |

Top Ten Vendors - The top vendors that dominated GLWA's FY 2021 actual spend.

Table 8 - Top Ten Vendors by Total Spend highlight the vendors receiving a majority of spend for FY 2021. These Top Ten vendors comprise \$198.7 million or 48% of total invoices paid. A complete list of vendors issues invoices in FY 2021 can be found in Appendix D.

Table 8 - Top Ten Vendors Total Spend

| Top Ten Vendors Invoiced | Invoice Count | Purchase Order Count | Total Amount (Millions) | Percentage of Total |
|--|---------------|-------------------------|----------------------------|---------------------|
| DTE Energy | 4,347 | 1 | \$42.2 | 10% |
| Lakeshore Global Corporation | 140 | 15 | \$33.5 | 8% |
| Weiss Construction Co LLC | 145 | 14 | \$27.8 | 7% |
| Inland Waters Pollution Control Inc | 15 | 2 | \$15.9 | 4% |
| Jay Dee Contractors Inc. | 20 | 2 | \$14.8 | 4% |
| AECOM Great Lakes, Inc | 25 | 3 | \$13.9 | 3% |
| New England Fertilizer Company | 12 | 2 | \$13.0 | 3% |
| AT&T | 59 | 3 | \$12.8 | 3% |
| Walsh Construction Company | 25 | 2 | \$12.4 | 3% |
| Kokosing Industrial Inc. | 43 | 4 | \$12.4 | 3% |
| Top Ten Subtotal | 4831 | 48 | \$198.7 | 48% |
| Grand Total | 20529 | 3799 | \$413.1 | 100% |

*DTE and AT&T are utilities



Detailed Appendices

Appendix A - FY 2021 Combined Contracts Awarded by Procurement

This report identifies all contracts awarded by Procurement during the fiscal year. It includes the Contract Number, the Vendor, and the total amount of the Contract. It is generated using data downloaded from the BS&A accounts payable and procurement modules and includes award activity data generated as part of these processes. Items outside the scope of this report include such things as GLWA employee payroll, debt, and pension obligation payments. Invoice activity is based on the date range July 1, 2020 through June 30, 2021.

Appendix B - FY 2021 Combined Vendors Awarded by Procurement

This report identifies all vendors awarded during the fiscal year. It includes the Contract Number, the Vendor, and the total amount of the Contract. It is generated using data downloaded from the BS&A accounts payable and procurement modules and includes award activity data generated as part of these processes. Items outside the scope of this report include such things as GLWA employee payroll, debt, and pension obligation payments. Invoiced activity is based on the date range July 1, 2020 through June 30, 2021.

Appendix C - FY 2021 Combined Contracts Invoiced

This report identifies all contracts invoiced during the fiscal year. It includes the Contract Number, the Vendor, and the total amount of the Contract. It is generated using data downloaded from the BS&A accounts payable and procurement modules and includes award activity data generated as part of these processes. Items outside the scope of this report include such things as GLWA employee payroll, debt, and pension obligation payments. Invoiced activity is based on the date range July 1, 2020 through June 30, 2021.

Appendix D - FY 2021 Combined Vendors paid by Invoice

This report identifies all vendors invoiced during the fiscal year. It includes the Contract Number, the Vendor, and the total amount of the Contract. It is generated using data downloaded from the BS&A accounts payable and procurement modules and includes award activity data generated as part of these processes. Items outside the scope of this report include such things as GLWA employee payroll, debt, and pension obligation payments. Invoiced activity is based on the date range July 1, 2020 through June 30, 2021.

| CONTRACT | VENDOR | Contract Description | Awarded Amount |
|-----------|---|--|-------------------|
| 2000610 | Lakeshore Global Corporation | CIP 115001 Piping, Valves & Venturi Meters | 49,467,913 |
| 1803990 | Weiss Construction Co LLC | CIP 111009 LHWTP High Lift Pumps, Flow Meter & Yard | \$30,022,637 |
| 2001488 | Pullman SST, Inc. | CIP 122017 7 Mile / Nevada transmission main | \$12,943,129 |
| 1902224 | Pullman SST, Inc. | CIP 260614 DB CSO Facilities Structure | \$12,055,334 |
| 2004889 | Lakeshore Global Corporation | Specialized Services - Staff Augmentation - 2 Yr. Contract | \$11,389,132 |
| 1904337 | Hazen and Sawyer | WRRF PS-2 Bar Racks Replace & Grit Collection System | \$11,307,129 |
| 2002190 | Weiss Construction Co LLC | CIP 211008 Ferric Chloride/PS1 & Complex B Sludge Lines | \$9,839,000 |
| 1904254 | Dan's Excavating Inc. | CIP 122003 WWP to NEWTP Phase #2 | \$8,258,592 |
| 1904197 | LimnoTech | GLWA Long Term CSO Control Plan Update. | \$7,748,507 |
| 2003443 | FK Engineering Associates | CIP 260206/260510 Design Services Conveyance System | \$7,348,888 |
| 1903312 | Major Cement Company | CIP 122013 Phase 1 14 Mile Transmission Main Loop | \$6,169,652 |
| 1902548 | PTS Contracting | HVAC CONTRACT FOR Water & Wastewater (BS&A 1902548) Sourcewell | \$5,790,800 |
| 1900995 | Motor City Electric Co | Electrical Preventative Maintenance and Repair Contract for GLWA Wastewater Facilities | \$5,717,481 |
| 2000292 | Hydromax USA LLC | GLWA New Valve Exercising Project for Field Services for a period of 3 years in the amount of \$4.5 mi | \$5,601,663 |
| 2002655 | FK Engineering Associates | Northwest Interceptor Relief Sewer to Oakwood Facility. Professional Engineering services to provide | \$5,599,456 |
| 1903598 | The Christman Company | Yard Piping, Construction Management CIP 216006 Chuck Reinhart, 297.0154 | \$5,548,501 |
| 2003330 | Commercial Contracting Corporati | CIP No. 260618 - HVAC Improvements at Oakwood CSO Facility | \$5,492,000 |
| 2000917 | Commercial Contracting Corporati | RFB - Refractory Inspection and subsequent Refractory Repairs for WRRF Complex II Incineration: 7 thr | \$4,752,640 |
| 1902548A | Johnson Controls Inc. | (HVAC) Water Treatment Plants Repair & Preventative Maintenance Services | \$4,620,000 |
| 2000970 | Noresco LLC | Rehabilitation of Screened Final Effluent (SFE) Pump Station (Specialized Procurement) | \$3,399,730 |
| 1904449 | Brown and Caldwell Constructors | Solicitation Request: Lake Huron Pilot Plant - Design Build Services (CIP 111011) | \$3,157,387 |
| 2100822 | Family Associates, LLC | Lease Agreement for Warehouse | \$2,669,082 |
| 2003785 | Applied Science Inc | RFP for Dye Testing & Engineering Services Previous Contract: DWSD/GLWA CS- 1482 and GLWA CS-236 | \$2,634,875 |
| 2004735 | Commercial Contracting Corporati | WRRF Conveyor Fire Recovery Design/Build Contract RFP Dan Alford, Director, 313.300.3521 | \$2,587,000 |
| 4302 | JCI Jones Chemicals Inc | 1st renewal year of 90-ton Chlorine | \$2,523,198 |
| 1901592 | Magnolia River Services Inc. | GIS Strategic Support Services | \$2,308,910 |
| 2000284 | Johnson Controls Fire Protection L | Specialized Procurement - Professional Services Contract for the preventative maintenance service Sourcewell | \$2,308,897 |
| 2002946 | NTH Consultants Ltd | Environmental Health and Safety Compliance Service Replacement contract for CS-213 | \$2,000,000 |
| 1902548B | Johnson Controls Inc. | (HVAC) Pumping Stations Repair and Preventative Maintenance Services | \$1,971,954 |
| 2000279 | Fishbeck | Springwells Water Treatment Plant Flocculator Drive Replacement | \$1,893,136 |
| 2004666 | M-K Construction Company Inc. | CIP 260621, Contract for Conner Creek Dike Improvements. | \$1,874,135 |
| 1903601 | CDM Smith Michigan Inc | Yard Piping Engineering Services, CIP 216006 Chuck Reinhart, 297.0154 | \$1,647,815 |
| 2000644 | DES Electric LLC | POWER MONITORING INSTALLATION PROJECT | \$1,623,606 |
| 2002350 | Systems Specialties | The requested contract with Rotork Controls, Inc. is needed to provide | \$1,538,174 |
| | | inspection, repair and prevent Contract has two PO's | |
| 1904738-5 | CEC Controls Company, Inc. | Job Order - Instrumentation and Controls Maiintenance Services (WRRF & CSOs) Engage up to six instrumentation contractors for task order type services. | \$1,524,000 |
| 1904738-1 | Outbound Technologies, Inc. | (4000703) | \$1,524,000 |
| 1904738-2 | PCI LLC | Job Order - Instrumentation and Controls Maiintenance Services (WRRF & CSOs) | \$1,524,000 |
| 1904738-3 | Verve Industrial | Job Order - Instrumentation and Controls Maiintenance Services (WRRF & CSOs) | \$1,524,000 |
| 1904738-4 | UIS Scada Inc | Engage up to six instrumentation contractors for task order type services. (4000706) | \$1,524,000 |
| 2003901 | United States Geological Survey | U.S. DEPARTMENT OF THE INTERIOR, U.S. GEOLOGICAL SURVEY, NON-STANDARD JOINT FUNDING AGREEMENT FOR WAT | \$1,365,000 |
| 1802499 | HDR Michigan, Inc. | WWP WTP Building ventilation improvements | \$1,350,000 |
| 2001456 | Spence Brothers | Funds Approval Form for SPWTP 1958 Settled Water Conduit and Loading Dock Concrete CIP #114016 | \$1,235,000 |
| 2002048 | Kennedy Industries Inc | Procurement of double disc gate valves for Phase II of the 14-Mile Transmission Main Loop Project | \$1,177,770 |
| 2100911 | Schreiber Corporation | CIP No. 260620 - Roof Replacement at Baby Creek CSO Facility, | \$999,000 |
| 2001433 | Fleishman Hilliard Inc | Marketing and Communications Services (3 year contract with two 1 year renewals) | \$980,000 |

| CONTRACT VENDOR | | Contract Description | Awarded Amount | |
|--------------------|------------------------------------|---|-------------------|--|
| 2000757 | M.L. Chartier, Inc. | This is a request for bid for LHWTP lagoon sludge removal maintenance contract, named LHWTP Lagoon Ma | \$966,384 | |
| 1903726 | Staples Business Advantage | Ink / Toner MiDeal | \$900,000 | |
| 1903426 | The Osborn Engineering Company | TOES: ARC FLASH STUDY | \$792,050 | |
| 2002908 | David D. Taylor | Oracle WAM System Specialist for a Three (3) Year Period | \$750,000 | |
| 2001492 | Crane Technologies Group Inc | Crane repairs for the WWOG/ Req for Water 2002240 waiting approval | \$642,032 | |
| | | Assessing the Integration of Real Time Control (RTC) Water Management | | |
| 2001434 | Regents of the University of Mich. | Systems into GLWA?s Long Term C CIP 122005_1804129 Schoolcraft Rd_IGA City of Livonia and GLWA_10"Sanitary | \$636,702 | |
| 2100917 | City of Livonia | Sewer Installation_Tempora | \$603,946 | |
| 2001831 | Plante & Moran PLLC | ERP Implementation Support | \$585,000 | |
| GLWA-CS-195 | The Foster Group LLC | Financial Management Consulting Services | \$550,000 | |
| 1902299 | Avante Solutions, Inc. | Information Technology Service Management (ITSM) Tool | \$534,694 | |
| 2001317 | Secure Door LLC | Preparing assessment and repair quotes for selected Overhead doors and hardware at various GLWA facil | \$520,000 | |
| 2004471 | Public Sector Consultants | Public Sector Consultants | \$475,000 | |
| 1904562 | Phoenix Environmental Inc | GLWA Fuel Maintenance | \$466,560 | |
| 1803126 | Hach Company | Hach Company Combined Purchases | \$451,768 | |
| 2101259 | Schuster Law PLC | IT Contract Negotiations | \$450,000 | |
| 2002240 | Crane Technologies Group Inc | CRANE INSPECTION AND REPAIRS (WATER) | \$420,000 | |
| | | | | |
| 2000299 | SCI Floor Covering Inc. | Flooring replacement for all GLWA sites | \$419,723 | |
| 1904736 | Linko Technology Inc | Linko (PIMS) Print Shan Ungrada 26 months Omnia Co. On | \$411,316 | |
| 2002363 | Xerox Corporation | Print Shop Upgrade 36 months Omnia Co-Op | \$404,525 | |
| 1900455-1 | SDG Associates, LLC | Architectural, Engineering, and Design Service | \$400,000 | |
| 1900455-2 | WSP Michigan Inc. | Architectural, Engineering, and Design Service Req 2002495 | \$400,000 | |
| 1904373 | Industrial Furnace Co Inc | Incinerator Fuel Train Systems Inspection and Safety Check | \$389,700 | |
| 1904862 | Geotab USA, Inc. | Purchase of GEOTAB Enterprise Fleet Management Modules for Fleet | \$375,000 | |
| 2002135 | Erie Construction LLC | WRRF Seagull Habitat Modification Beena Chackunkal, Engineer, 313.297.9825 | \$355,160 | |
| 2003340 | Siemens Industry Inc | THIS REQUISITION IS TO ADD \$ 1,878.00 TO THE FUNDS ON REQ. 2003340 | \$313,293 | |
| 2001082 | Preventive Maintenance Technolo | Emergency Standby Generator Preventative Maintenance (Water). Replaces reg#2000432 | \$309,550 | |
| 2897583 | VWR International | JIT Chemicals/Lab Supplies MiDeal | \$304,800 | |
| 2004289 | Garan Lucow Miller, P.C. | Sean Perham v GLWA, Claim No 189326719 | \$300,000 | |
| 2004482 | Motor City Electric Co | MOTOR CITY ELECTRIC - CONTRA 3 MONTHS Ext Contract 50817 PO 19203 and 16131 | \$300,000 | |
| 2004292 | Zausmer, P.C. | Daniels Karim - Claim of Appeal - GLWA-LS-2004292 | \$300,000 | |
| 2004292 | Miller Canfield Paddock & Stone Pl | | \$300,000 | |
| 2004307 | Dickinson Wright PLLC | Midwest Valve v. GLWA | \$300,000 | |
| 2002330 | Littler Mendelson PC | Deanne Williams vs Great Lakes Water Authority | \$300,000 | |
| 2001/21 2003057 | Fausone Bohn LLP | | \$300,000 | |
| | | Water and sewer services to the City of Dearborn | | |
| 2001694 | Public Sector Consultants | WRAP program design advisor services | \$295,001 | |
| 2002204 | Aquasight LLC | APOLLO ADVISER APPLICATION MAINTENANCE & DEVELOPMENT OF NEW DASHBOARDS - (3 year contract with 2 - 1 | \$285,000 | |
| 2001563 | Black & Veatch Ltd Of Michigan | Dearborn Master Metering Assistance | \$240,000 | |
| 2001595 | Regents of the University of Mich. | Life Cycle Analysis of the Great Lakes Water Authority | \$234,726 | |
| 1905154 | Clayton Industries | CLAYTON INDUSTRIES (STEAM GENERATOR REPAIR WATER PLANTS) | \$221,851 | |
| 2001928 | Structural Preservation Systems | Kercheval Pipe Renewal Pilot | \$200,760 | |
| 2004712 | Bridgeport Consulting LLC | Bridgeport Consultants Services to assist finance procurment in various area. For two years | \$200,000 | |
| 2002514 | Re-Source Partners | IT ASSET DISPOSAL SERVICES MiDeal | \$200,000 | |
| 2002314 | Bert's Testing & Training Services | Provide training to GLWA team member for CDL class A and B licenses. Over next | \$200,000 | |
| 1904710 | Wayne State University | 3 years with a 1 year The Occurrence and Fate of Microplastics in Wastewater and Drinking Water | \$195,000 | |
| 2100850 | Williams Acosta PLLC | Treatment Systems Melvindale PFAS Appeal | \$195,000 | |
| 2001498 | Commercial Contracting Corporati | | \$173,000 | |
| 2100779 | Plunkett Cooney PC | Re: Highland Park Appeal | \$171,000 | |
| 2101468 | Plante & Moran PLLC | Plante & Moran will assist Logistics & Materials in the relocation of the Mckinstry | \$150,000 | |
| | | Warehouse to the | | |
| 2001308 | FastSigns Detroit | Vinyl Graphics Services for GLWA Fleet and Facilities | \$147,000 | |
| 2001574 | Emphasys Software | Sympro Debt Management Software | \$128,182 | |
| 2002349 | Michigan CAT | MI Cat - Blanket PO for construction equipment parts and maintenance services for two (2) years | \$125,000 | |
| 1703524 | TK Elevator Corporation | Elevator Maintenance | \$117,898 | |
| 2100570 | Process Improvement Institute Inc | Consulting Services to Support GLWA's Risk and Process Safety Management Program (RPM/PSM) | \$115,000 | |
| 2100360A | YSI Incorporated | Service contract for FS3700 -cyanide Indtrument from 1/19/2021 to | \$110,355 | |

| CONTRACT | VENDOR | Contract Description | Awarded Amount |
|----------|------------------------------------|--|----------------------|
| 1904332 | GDI Services Inc | Blanket PO for janitorial services at GLWA facilities for one (1) year 04/06/2020 · 04/05/2021 | \$109,109 |
| 2004190 | Jett Pump & Valve LLC | Full chlorine scrubber media replacement.for the Purafill scrubber in service at | \$107,999 |
| 2002909 | Jett Pump & Valve LLC | Springwells water pl Jett pump to replace media in Chlorine scrubber | \$107,999 |
| 1904860 | Idexx Laboratories | Idexx Bacterioligical testing materials for Water Plants and Water Quality Lab Place Holder Requisiti | \$101,585 |
| 2100757 | Butzel Long PC | Negotiation of the I-94 Storm Water Discharge Agreement | \$100,000 |
| 2004810 | O'Reilly Rancilio P.C. | Stoney Creek Villas Apartments - Pond Maintenance | \$100,000 |
| 2100339 | Motor City Electric Co | Motor city electric to provide emergency assitance with repair/repalcement work with switchgear/cable | \$100,000 |
| 2003099 | Macomb Mechanical Inc | Macomb Mechanical Renewals on CSF, WBB, and WRRF HVAC systems | \$99,216 |
| 2100041 | Johnson Controls Fire Protection L | Fire Alarm, Sprinkler & Fire Suppression Systems PM, Service & Repair (Sourcewell) | \$98,882 |
| 2002947 | Albert Kahn Associates Inc. | 200251 Engineering System Services | \$95,025 |
| 1803933 | Rose Pest Solutions | Pest Control and Extermination Services for Three (3) Years with 2 - 1 Year | ¢02.421 |
| | | Renewal Options | \$93,421 |
| 2001396 | Santoro Incorporated | Blanket contract for light, medium, and heavy duty truck parts and repair | \$90,000 |
| 2002722 | Siemens Industry Inc | Siemens Quotation Number: Q2075268-R1 for 3 year TSA (27,000.00/YR) SPV | \$81,000 |
| 2002492 | United Rentals North America Inc | Blanket PO for equipment rentals as needed by GLWA Fleet for one (1) year 7/1/2020 - 6/30/2021 | \$80,000 |
| 2101260 | Lewis & Munday P C | Revere Dock Litigation - 5851 W Jefferson Ave, Detroit, MI | \$75,000 |
| 2001596 | Sunbelt Rentals, Inc. | Blanket PO for on demand equipment rentals 05/01/2020 - 04/30/2022 MiDeal | \$75,000 |
| 2100663 | Clark Hill | Employment/Labor Matter | \$75,000 |
| 2004445 | Lerch Bates, Inc. | Omnia Partners CoOp task #1 | \$71,019 |
| 2100644 | Kennedy Industries Inc | Emergency Repair of Freud Pump 10 | \$57,435 |
| 2101294 | Karen Ann Muglia | Internal control review for the Chief Financial Officer | \$50,000 |
| 2003805 | Binkelman Corporation | CREATE A TWO YEAR CONVEYOR MAINTENANCE CONTRACT, TO VULCANIZE BELTS AND TO PROVIDE PARTS FOR DEWATERI | \$50,000 |
| 2002799 | Marsh USA Inc. | Property Insurance Renewal Initiative | \$50,000 |
| 2002059 | Tredroc Tire Services, LLC | Tredroc Blanket PO for purchase of tires as needed by GLWA Fleet for 1 year 06/01/2020 - 05/31/2021 | \$50,000 |
| 2002035 | Valve Reconditioning Service | Lake Huron to have Valve Reconditioning Services restore 2 valves | \$49,999 |
| 2101113 | NTH Consultants Ltd | Audit services for the Process Safety Management and Risk Management Plan at the five water treatment | \$49,850 |
| 2100373 | Zachary Sharp | Analysis of the floccuation basins at the LHWTP and perform CFD (computational fluid dynamics) mode | \$48,675 |
| 2101076 | Madison Electric Company | Power Meters for Springwells Water Treatment Plant (WTP) | \$45,532 |
| 2100712 | Digital Science Group LLC | WRRF-CSO Digital Imaging Services | \$44,625 |
| 2004251 | Bell Equipment Company | Blanket PO for maintenance and repairs on GLWA Fleet street sweepers and other equipment | \$44,000 |
| 2002515 | Heat Engineering Inc | HEAT Engineering - Blanket PO for small engine parts and repairs as needed by GLWA Fleet for two (2) | \$44,000 |
| | | Contract for scanning and digitizing documents, blue prints and Operation & | * • • • • • • |
| 2000569 | Digital Science Group LLC | Maintenance Manuals that AISC - QOUTE 1147 INSTALLATION & MAINTENANCE SERVICES:ALUM DAY & | \$42,847 |
| 2100385A | Advance Instrumentation Systems | BULK TANK PRESSURE TRANSMITTER | \$42,300 |
| 2004315 | Siemens Industry Inc | SIDRIVE IQ Digital Services One year Blanket PO beginning April 1, 2021, window glass, glass, accessories | \$40,700 |
| 2101055 | Logan Glass Company | and tools. | \$40,000 |
| 2001636 | Weingartz Supply Co., Inc. | Blanket PO for for purchase of parts and repairs as needed on GLWA Fleet equipment for 1 year 05/01/2 | \$40,000 |
| 2100477 | ASTI Environmental | Environmental Assessment at 5181 E. Outer Dr., Detroit, MI | \$40,000 |
| 2100212 | Sav's Welding Services | Blanket PO for welding and steel supply services for GLWA fleet for 1 year 01/27/2021 - 01/26/2022 | \$40,000 |
| 2004100 | Sustema Inc. | Removal and Disposal of existing consoles and installation of new console S | \$39,485 |
| 2100149 | KnowBe4 Inc. | KnowBe4 (Security Mentor Replacement) | \$39,396 |
| 2002102 | CDM Smith Michigan Inc | CDM Smith CAD Specialized Contract request | \$38,860 |
| 2001395 | Michael K. Stenstrom, Ph.D., P.E. | Professional Engineering Services at WRRF | \$37,960 |
| 2100156 | Plante & Moran PLLC | Vendor Viability Assessment | \$37,500 |
| 1900702 | Premier Group Associates LC | Grounds Maintenance Services | \$36,710 |
| 2003625 | Smith's Waterproofing LLC | PURCHASE SMITH'S WATERPROOFING TO CAULK AND TUCKPOINT EXTERIOR PARAPET WALL OF EB -1 BUILDING | \$36,600 |
| 2002823 | Digital Science Group LLC | WRRF- CSO Digital Records Conversion | \$36,420 |
| 2003786 | Wade Trim Associates Inc | Pump Station Two Grit Channel /Nautical Drone Pilot Study Jason Williams, | \$33,781 |

| CONTRACT | VENDOR | Contract Description | Awarded Amount |
|--------------|----------------------------------|--|-------------------|
| 2004505 | | PURCHASE LH560 COMS PREVENTIVE MAINTENANCE AND QA PERFORMANCE | |
| 2004597 | Teledyne CETAC Technologies Inc | BRONZE SUPPORT FOR WRRF COMPLEX II OPAC | \$30,732 |
| 2004700 | Project Innovations Inc | Executive and Managerial Training for Water Operations | \$29,900 |
| 1903753 | Modern Water Inc. | Repair of deltatox analyzer, reagents and supplies to run Delta tox analyses for one year at Springwe | \$25,394 |
| 2004470 | | CSO Instrumentation & Controls Support Services | \$25,000 |
| 1903519 | TS Systems, Inc. | Filter Transmitter Replacement | \$24,075 |
| 2100896 | Unconventional Services Inc | Repair and protective paint services with Uncoventional Services for Odor Control Fa | \$20,950 |
| 2002796 | ConvergeOne Inc | AVST/ConvergeOne Voicemail Maintenance | \$20,316 |
| 2002283 | Versalift Midwest | Versalift Blanket PO for maintenance and repairs on GLWA Fleet aerial lift for two (2) years | \$20,000 |
| 2001969 | Troy's Towing Inc. | Blanket PO for towing services for all GLWA vehicles | \$20,000 |
| 2001970 | L.I.J.B.S. Enterprises, LLC | Blanket PO for towing services for all GLWA vehicles | \$20,000 |
| 2100588 | Boomer Construction Materials | Blanket purchase order for masonry supplies and mansonry tools 04/01/2021 - 03/31/2023 | \$18,000 |
| 2000261 | Phoenix Environmental Inc | Phoenix Environmental Inc. PROPOSAL 23428. Inspection Services Continuation requisition for four mont | \$17,773 |
| 2100382 | BigTime Software Inc. | BigTime Renewal | \$15,840 |
| 2000309 | Isle Inc. | Artificial Intelligence for Treatment, Network Optimization Technology Scan and Water Quality Sensors | \$15,000 |
| 2101040 | Metro Welding Supply Corporation | Two year Blanket PO beginning April 1,2021, cylinder rental, gasses, welding wire, welder PPE and cut | \$12,000 |
| 2004002 | | BIM 360 Docs Assistance and Support | \$11,670 |
| 1902702 | Interior Environments LLC | Furniture and Flooring -planning, coordination, procurement, installation and warranty services.Fur | \$10,275 |
| 2003899 | International Controls & Equipme | PURCHASE SERVICE AND PARTS TO INSTALL CONTROL BOXES TO ENRTY / EXIT - COPLAND GATE | \$10,175 |
| 2002275 | Wolverine Power Systems | Blanket PO for generator repairs and maintenance at CSF for three (3) years | \$10,000 |
| 2003659 | | Surveying Services for the property located at 5181 East Outer Drive in the City of Detroit, County o | \$8,810 |
| 2100313 | Applied Power and Controls Inc. | Schoolcraft Power Metering Design - Electrical Design for Power Metering Installation | \$8,400 |
| 1804127 | Hach Company | Professional Services Contract for Service Agreement | \$7,274 |
| 2004746 | Walz & Krenzer Inc. | Hypalon Gasket for watertight hatches per WK-839-45 gasket per WK-936-79 | \$5,900 |
| 2004618 | Giffels Webster | ALTA/NSPS SURVEY ON CONRAIL STRIP BETWEEN WARREN AND TIREMAN | \$4,320 |
| 2000876 | ShredCorp. | ShredCorp Services Description for REQ 2000876 Shredding Services On-site shredding services to shred | \$3,600 |
| 1902536 | Waste Management Of Michigan In | Refuse & recycling services various locations 10/15/2019 through 10/14/20 with two (2) one (1) year r | \$471 |
| GLWA-CON-285 | Lakeshore Global Corporation | Wholesale Water Meter Pit Rehabilitation and Meter Replacement | -\$122,755 |
| Grand Total | | | \$281,265,515 |

| Top Ten Awarded Vendors | Contract Executed Count | Purchase Orders Executed Count | Awarded Amount |
|-------------------------------------|-------------------------|-----------------------------------|----------------|
| Lakeshore Global Corporation | 3 | 3 | \$60,734,290 |
| Weiss Construction Co LLC | 2 | 2 | \$39,861,637 |
| Pullman SST, Inc. | 2 | 2 | \$24,998,463 |
| Commercial Contracting Corporation | 4 | 4 | \$13,002,640 |
| FK Engineering Associates | 2 | 2 | \$12,948,344 |
| Hazen and Sawyer | 1 | 1 | \$11,307,129 |
| Dan's Excavating Inc. | 1 | 1 | \$8,258,592 |
| LimnoTech | 1 | 1 | \$7,748,507 |
| Johnson Controls Inc. | 3 | 5 | \$6,602,712 |
| Motor City Electric Co | 4 | 10 | \$6,290,982 |
| Major Cement Company | 1 | 1 | \$6,169,652 |
| PTS Contracting | 1 | 1 | \$5,790,800 |
| Hydromax USA LLC | 1 | 1 | \$5,601,663 |
| The Christman Company | 1 | 1 | \$5,548,501 |
| Noresco LLC | 1 | 1 | \$3,399,730 |
| Brown and Caldwell Constructors | 1 | 1 | \$3,157,387 |
| Family Associates, LLC | 1 | 1 | \$2,669,082 |
| Applied Science Inc | 1 | 1 | \$2,634,875 |
| JCI Jones Chemicals Inc | 2 | 2 | \$2,523,623 |
| Johnson Controls Fire Protection LP | 2 | 3 | \$2,407,779 |
| Magnolia River Services Inc. | 1 | 1 | \$2,308,910 |
| NTH Consultants Ltd | 2 | 2 | \$2,049,850 |
| Detroit Water and Sewerage | 1 | 3 | \$2,040,000 |
| Systems Specialties | 2 | 24 | \$1,927,867 |
| Fishbeck | 1 | 1 | \$1,893,136 |
| M-K Construction Company Inc. | 1 | 1 | \$1,874,135 |
| CDM Smith Michigan Inc | 3 | 3 | \$1,715,075 |
| Kennedy Industries Inc | 3 | 15 | \$1,681,900 |
| DES Electric LLC | 2 | 2 | \$1,643,534 |
| PCI LLC | 3 | 3 | \$1,561,130 |
| Outbound Technologies, Inc. | 1 | 1 | \$1,524,000 |
| UIS Scada Inc | 1 | 1 | \$1,524,000 |
| Verve Industrial | 1 | 1 | \$1,524,000 |
| CEC Controls Company, Inc. | 1 | 1 | \$1,524,000 |
| United States Geological Survey | 1 | 1 | \$1,365,000 |
| HDR Michigan, Inc. | 1 | 1 | \$1,350,000 |
| Experis US Inc | 1 | 9 | \$1,317,786 |
| Spence Brothers | 1 | 1 | \$1,235,000 |
| Crane Technologies Group Inc | 3 | 17 | \$1,194,143 |
| PVS Nolwood Chemical Inc | 1 | 5 | \$1,117,882 |
| Water Research Foundation | 1 | 9 | \$1,105,036 |
| Schreiber Corporation | 2 | 14 | \$1,078,710 |
| Fleishman Hilliard Inc | 1 | 1 | \$980,000 |
| M.L. Chartier, Inc. | 1 | 1 | \$966,384 |
| Staples Business Advantage | 1 | 1 | \$900,000 |
| Grainger | 1 | 637 | \$891,957 |
| Regents of the University of Mich. | 2 | 2 | \$871,429 |
| CDW Computer Centers Inc | 1 | 54 | \$857,839 |
| Polydyne Inc | 1 | 5 | \$855,889 |
| Crystal Flash, Inc. | 1 | 1 | \$800,000 |
| The Osborn Engineering Company | 1 | 1 | \$792,050 |
| Plante & Moran PLLC | 3 | 3 | \$772,500 |
| Public Sector Consultants | 2 | 2 | \$770,001 |
| David D. Taylor | 1 | 1 | \$750,000 |
| Oracle America Inc | 1 | 4 | \$714,450 |
| Mcnaughton Mckay Electric Company | 1 | 127 | \$631,867 |
| Siemens Industry Inc | 4 | 21 | \$611,715 |
| City of Livonia | 1 | 1 | \$603,946 |
| Homrich | 1 | 3 | \$603,046 |
| The Foster Group LLC | 2 | 2 | \$590,000 |
| Avante Solutions, Inc. | 1 | 1 | \$534,694 |
| Detroit Pump & Mfg Co | 1 | 35 | \$532,034 |
| Mokveld Valves BV | 1 | 1 | \$528,400 |
| | 1 | 1 | \$520,000 |
| Secure Door LLC | 1 | 1 | \$520,000 |

| Top Ten Awarded Vendors | Contract Executed Count | Purchase Orders Executed Count | Awarded Amount |
|---|-------------------------|-----------------------------------|------------------------|
| Recycle Waste Services Inc. | 1 | 2 | \$514,795 |
| Phoenix Environmental Inc | 3 | 6 | \$506,999 |
| Hach Company | 2 | 50 | \$459,042 |
| Schuster Law PLC | 1 | 1 | \$450,000 |
| SCI Floor Covering Inc. | 1 | 2 | \$419,723 |
| Xerox Corporation | 2 | 2 | \$417,093 |
| Linko Technology Inc | 1 | 1 | \$411,316 |
| Professional Pump Inc | 1 | 1 | \$400,000 |
| WSP Michigan Inc. | 1 | 1 | \$400,000 |
| SDG Associates, LLC | 1 | 1 | \$400,000 |
| Industrial Furnace Co Inc | 2 | 2 | \$393,245 |
| RS Technical Services Inc | 1 | 55 | \$382,260 |
| Geotab USA, Inc. | 1 | 1 | \$375,000 |
| Erie Construction LLC | 1 | 1 | \$355,160 |
| Motor City Pipe & Supply Co | 1 | 216 | \$344,607 |
| Dell Computer Corporation | 1 | 9 | \$341,770 |
| VWR International | 2 | 26 | \$341,739 |
| JMK Engineering, Inc | 1 | 1 | \$337,920 |
| Epitec Inc | 1 | 1 | \$336,600 |
| Preventive Maintenance Technologies | 1 | 3 | \$309,550 |
| GALCO Industrial Electronics | 1 | 67 | \$304,202 |
| Miller Canfield Paddock & Stone PLC | 2 | 2 | \$302,500 |
| Zausmer, P.C. | 1 | 1 | \$300,000 |
| Littler Mendelson PC | 1 | 1 | \$300,000 |
| Dickinson Wright PLLC | 1 | 1 | \$300,000 |
| Garan Lucow Miller, P.C. | 1 | 1 | \$300,000 |
| Fausone Bohn LLP | 1 | 1 | \$300,000 |
| Evoqua Water Technologies LLC | 1 | 6 | \$286,081 |
| Aquasight LLC | 1 | 1 | \$285,000 |
| A/C Service & Repair Inc. | 1 | 3 | \$253,365 |
| Wayne Health | 1 | 1 | \$250,000 |
| Allingham Corporation | 1 | 13 | \$243,749 |
| Black & Veatch Ltd Of Michigan | 1 | 1 | \$240,000 |
| Jett Pump & Valve LLC | 3 | 5 | \$227,769 |
| Electrical Workers Insurance Fund | 1 | 1 | \$226,800 |
| Clayton Industries | 2 | 4 | \$225,549 |
| Cornell Field Vibration Service Inc | 1 | 2 | \$221,380 |
| Vieux & Associates Inc. | 1 | 2 | \$212,870 |
| American Gear & Engineering, Inc | 1 | 4 | \$212,145 |
| JGM Valve Corporation | 1 | 32 | \$204,663 |
| Waterfront Petroleum Terminal Co. | 1 | 1 | \$203,533 |
| Structural Preservation Systems | 1 | 1 | \$200,760 |
| Re-Source Partners | 1 | 1 | \$200,000 |
| Bridgeport Consulting LLC | 1 | 1 | \$200,000 |
| Bert's Testing & Training Services | 1 | 1 | |
| Robert Half Finance & Accounting | 1 | 1 | \$198,000 |
| Wayne State University | 1 | 1 | |
| Data Consulting Group Inc | 1 | 1 | \$194,040 |
| Atlantic Coast Polymers Inc | 1 | 1 | \$190,080 |
| DP Brown Of Detroit Inc | 1 | 14 | \$186,539 |
| Fitch Ratings Inc | 1 | 2 | \$180,000 |
| Amazon Web Services Inc | 1 | 2 | \$176,953 |
| Williams Acosta PLLC | 1 | 1 | \$175,000 |
| Santoro Incorporated | 2 | 5 | \$174,672 |
| Alfa Laval Inc | 1 | 8 | \$172,874 |
| FastSigns Detroit | 2 | 2 | \$166,98 |
| Capp USA | 1 | 29 | \$165,688 |
| Forberg Scientific Inc | 1 | 4 | \$159,522 |
| Yates Industries Inc | 1 | 8 | |
| Madison Electric Company | 2 | 34 | |
| DLT Solutions LLC | 2 | 6 | |
| Premier Safety | 1 | 44 | |
| Plunkett Cooney PC | 1 | 1 | |
| | | - | |
| TK Elevator Corporation | 2 | 11 | \$148.478 |
| TK Elevator Corporation Ingersoll Rand Company | | <u> </u> | \$148,478 \$148,314 |

| Top Ten Awarded Vendors | Contract Executed Count | Purchase Orders Executed Count | Awarded Amount |
|---|-------------------------|-----------------------------------|----------------------|
| Herc Rentals Inc. | 1 | 4 | \$140,742 |
| Metro Welding Supply Corporation | 2 | 50 | \$136,933 |
| Idexx Laboratories | 2 | 17 | \$129,350 |
| Emphasys Software | 1 | 1 | \$128,182 |
| Michigan CAT | 2 | 5 | \$128,122 |
| HESCO Group Inc. | 1 | 14 | \$126,270 |
| D/A Central Inc | 1 | 2 | \$123,901 |
| Digital Science Group LLC | 3 | 3 | \$123,892 |
| MSC Industrial Supply Company | 1 | 106 | \$123,029 |
| Metro Detroit EITC | 1 | 1 | \$122,000 |
| Lutz Roofing Company Inc. | 1 | 4 | \$121,367 |
| Detroit Salt Company LLC | 1 | 11 | \$120,503 |
| Macomb Mechanical Inc | 2 | 9 | \$117,201 |
| Process Improvement Institute Inc. | 1 | 1 | \$115,000 |
| DE-CAL Inc | 1 | 4 | \$114,692 |
| YSI Incorporated | 2 | 2 | \$113,878 |
| Binkelman Corporation | 2 | 20 | \$113,527 |
| GDI Services Inc | 2 | 4 | \$109,409 |
| SE Michigan Council of Governments | 1 | 2 | \$108,584 |
| EJ USA Inc | 1 | 25 | \$105,704 |
| United Rentals North America Inc | 2 | 9 | \$104,654 |
| JWC Environmental Inc. | 1 | 6 | \$104,548 |
| Trendset Communications Group, LLC | 1 | 5 | \$103,659 |
| Advance Instrumentation Systems | 2 | 3 | \$102,800 |
| Actuator Specialties | 1 | 11 | \$101,591 |
| O'Reilly Rancilio P.C. | 1 | 1 | \$100,000 |
| Butzel Long PC | 1 | 1 | \$100,000 |
| Commercial Construction Inc. | 1 | 4 | \$95,771 |
| Albert Kahn Associates Inc. | 2 | 1 | \$95,025 |
| Rose Pest Solutions | | | \$94,146 |
| FranklinCovey Client Sales Inc. Smartsheet Inc | 1 | 1 | \$90,950 \$90,000 |
| EnviroCare International Inc. | 1 | 4 | |
| Xylem Dewatering Solutions Inc | 1 | 3 | \$87,623 |
| MetalFab Inc | 1 | 29 | \$86,550 \$84,025 |
| GEA Mechanical Equipment US Inc | 1 | 29 | \$80,768 |
| OSIsoft LLC | 1 | 2 | \$80,708 |
| Caniff Electric Supply Co., Inc. | 1 | 15 | \$79,609 |
| Veolia Water Technologies Canada | 1 | 2 | \$75,005 |
| Smith's Water proofing LLC | 2 | 6 | \$75,671 |
| Sunbelt Rentals, Inc. | 1 | 1 | \$75,000 |
| Lewis & Munday P C | 1 | 1 | \$75,000 |
| Clark Hill | 1 | 1 | \$75,000 |
| Proteus Instruments | 1 | 1 | \$74,568 |
| Sherwin Williams Company | 1 | 5 | \$72,925 |
| Lerch Bates, Inc. | 1 | 5 | \$71,019 |
| Seagull Control Systems LLC | 1 | 3 | \$70,412 |
| EMC Corporation | 1 | 2 | \$69,925 |
| Dunbar Mechanical, Inc. | 1 | 4 | \$69,053 |
| Fred's Key Shop | 1 | 4 | \$67,729 |
| Titus Welding Company Inc | - 1 | 1 | \$67,500 |
| MacAllister Machinery Co Inc | 1 | 13 | \$67,437 |
| Howard Commercial Door | 1 | 5 | \$66,939 |
| Premier Group Associates LC | 2 | 17 | \$66,800 |
| Allie Brothers Inc | - 1 | 4 | \$66,598 |
| W C Ducomb Company | 1 | 18 | \$65,985 |
| R.P. Adams | 1 | 1 | \$65,594 |
| Michigan.com | 1 | 2 | \$64,344 |
| Galloup,Forberg Smith, Merlo Energy | 1 | 9 | \$60,483 |
| The Macomb Group Inc | 1 | 34 | \$59,448 |
| Wadsworth Solutions Northwest | 1 | 6 | \$58,648 |
| Cosa Xentaur Corporation | 1 | 3 | \$57,196 |
| Cintas | 1 | 34 | \$56,895 |
| ANSYS, Inc. | 1 | 1 | \$56,378 |
| | 1 | 1 | |
| Energy Products Inc | 1 | 8 | |

| Top Ten Awarded Vendors | Contract Executed Count | Purchase Orders Executed Count | Awarded Amount |
|---|-------------------------|-----------------------------------|----------------|
| Christy Glass Company, Inc. | 1 | 4 | \$52,655 |
| US Bank | 1 | 8 | \$52,200 |
| Valve Reconditioning Service | 2 | 2 | \$51,836 |
| Merit Laboratories Inc | 1 | 11 | \$51,564 |
| Solomon Diving Inc. | 1 | 2 | \$50,895 |
| Miss Dig System Inc. | 1 | 1 | \$50,812 |
| USA Bluebook - Main | 1 | 16 | \$50,754 |
| Trimble Inc | 1 | 9 | \$50,549 |
| Laird Plastics | 1 | 4 | \$50,089 |
| Karen Ann Muglia | 1 | 1 | \$50,000 |
| Tredroc Tire Services, LLC | 1 | 1 | \$50,000 |
| Marsh USA Inc. | 1 | 1 | \$50,000 |
| Gray Matter Systems LLC | 1 | 1 | \$49,992 |
| Inlay Casting & Repair | 1 | 1 | \$49,500 |
| Zachary Sharp | 1 | 1 | \$48,675 |
| Bell Equipment Company | 2 | 2 | \$48,350 |
| Qmarkets USA Inc. | 1 | 1 | \$47,200 |
| Marshall E. Campbell Company | 1 | 22 | \$45,875 |
| Interior Environments LLC | 2 | 7 | \$45,388 |
| Focus HOPE | 1 | 1 | \$45,000 |
| Ancona Controls Inc. | 1 | 4 | \$44,021 |
| Heat Engineering Inc | 1 | 1 | \$44,000 |
| Jim Myers & Sons, Inc. | 1 | 2 | \$43,656 |
| Sehi Computer Products Inc | 1 | 3 | \$42,853 |
| Trace Analytical Laboratories Inc | 1 | 4 | \$42,709 |
| Corrosion Fluid Products | 1 | 3 | \$42,113 |
| Midwest Municipal Instrumentation | 1 | 6 | \$41,431 |
| Aerotek Inc. | 1 | 1 | \$41,295 |
| L&W Supply | 1 | 1 | \$40,100 |
| Sav's Welding Services | 1 | 1 | \$40,000 |
| Logan Glass Company | 1 | 1 | \$40,000 |
| Weingartz Supply Co., Inc. | 1 | 1 | \$40,000 |
| ASTI Environmental | 1 | 1 | \$40,000 |
| J. Dedoes Enterprises Inc. | 1 | 1 | \$40,000 |
| Innovyze Inc | 1 | 1 | \$39,941 |
| Sustema Inc. | 1 | 1 | \$39,485 |
| KnowBe4 Inc. | 1 | 1 | \$39,396 |
| Aircentric Corporation | 1 | 6 | \$38,947 |
| Excalibur Engineering LLC | 1 | 1 | \$38,900 |
| Barta Sales LLC | 1 | 9 | \$38,805 |
| Michigan Mechanical Insulation | 1 | 3 | \$38,418 |
| Michael K. Stenstrom, Ph.D., P.E. | 1 | 1 | \$37,960 |
| SkyNorth Software | 1 | 1 | \$37,800 |
| Gutermann Inc. | 1 | 1 | \$37,540 |
| Wayne County Community College | 1 | 5 | \$37,400 |
| West Shore Fire | 1 | 2 | \$37,220 |
| Team Industrial Services Inc | 1 | 2 | \$35,954 |
| W.S.I. Industrial Services, Inc. | 1 | 1 | \$35,520 |
| Communications Professionals Inc | 1 | 14 | \$35,421 |
| Powder Bulk Products Inc | 1 | 3 | \$35,269 |
| KSB Dubric Inc | 1 | 3 | \$33,209 |
| Wade Trim Associates Inc | 1 | 3 | \$33,781 |
| Rosemount Analytical Inc | 1 | 4 | \$33,709 |
| Harold Beck & Sons Inc | 1 | 2 | \$33,709 |
| Federal Pipe & Supply Co Inc | 1 | 33 | \$32,908 |
| Newton Manufacturing Company | 1 | 2 | \$32,544 |
| SPX Flow US LLC | 1 | 1 | \$32,544 |
| Concentra Medical Centers | 1 | 7 | \$31,675 |
| | 1 | 1 | \$31,454 |
| Teledyne CETAC Technologies Inc Virtual Graffiti Inc | | | |
| | 1 | 1 | \$30,553 |
| Waterworks Systems & Equipment Inc | 1 | 5 | \$30,084 |
| Detroit Stoker Company LLC | 1 | 2 | \$30,066 |
| Teknicolors Paints Inc | 1 | 1 | \$30,000 |
| Sabiston Building Supply | 1 | 1 | \$30,000 |
| Isle Inc. | 2 | 2 | \$30,000 |
| Project Innovations Inc | 1 | 1 | \$29,900 |

| Top Ten Awarded Vendors | Contract Executed Count | Purchase Orders Executed Count | Awarded Amount |
|-------------------------------------|-------------------------|-----------------------------------|----------------|
| Best Aire Compressors Services Inc | 1 | 9 | \$29,545 |
| Robin Cash Ph.D., LLC | 1 | 1 | \$29,200 |
| SDSpro LLC | 1 | 1 | \$29,090 |
| ADVISA | 1 | 1 | \$29,000 |
| Zones Inc | 1 | 6 | \$28,945 |
| Baileigh Industrial | 1 | 2 | \$28,183 |
| Ayyeka Inc. | 1 | 1 | \$28,045 |
| Carahsoft Technology Group | 1 | 1 | \$27,968 |
| Dubois-Cooper Associates Inc | 1 | 2 | \$27,054 |
| Rosemount Inc | 1 | 3 | \$26,975 |
| Pete's Coin Laundry | 1 | 1 | \$26,000 |
| Graybar Electric Company | 1 | 16 | \$25,417 |
| Modern Water Inc. | 1 | 1 | \$25,394 |
| Space Camp LLC | 1 | 1 | \$25,200 |
| Friends of the Rouge | 1 | 1 | \$25,000 |
| ZOHO Corporation #4926 | 1 | 1 | \$24,970 |
| KamarOE | 1 | 29 | \$24,519 |
| TS Systems, Inc. | 1 | 1 | \$24,075 |
| Eastern Oil Company | 1 | 6 | \$23,711 |
| Service Electric Supply Inc | 1 | 29 | \$23,531 |
| Shimadzu Scientific Instruments Inc | 1 | 4 | \$23,280 |
| Ferguson Waterworks | 1 | 2 | \$23,201 |
| NOAR Technologies | 1 | 2 | \$22,776 |
| Lubrication Engineers Inc. | 1 | 8 | \$22,390 |
| Alro Steel Corporation | 1 | 4 | \$22,349 |
| Overhead Door West Commercial Inc | 1 | 18 | \$21,680 |
| Wolverine Power Systems | 2 | 2 | \$21,461 |
| Unconventional Services Inc | 1 | 1 | \$20,950 |
| The Transmitter Shop | 1 | 1 | \$20,495 |
| ConvergeOne Inc | 1 | 1 | \$20,316 |
| S P Kinney Engineers Inc | 1 | 3 | \$20,316 |
| Troy's Towing Inc. | 1 | 1 | \$20,000 |
| Tarrant Regional Water District | 1 | 1 | \$20,000 |
| Versalift Midwest | 1 | 1 | \$20,000 |
| L.I.J.B.S. Enterprises, LLC | 1 | 1 | \$20,000 |
| Schneider Electric IT USA, Inc | 1 | 1 | \$19,390 |
| Safety Services Inc | 1 | 24 | \$19,106 |
| TPC Training | 1 | 1 | \$19,080 |
| Cincinnati Babbitt Inc | 1 | 2 | \$19,068 |
| Powell Fabrication & Manufacturing | 1 | 4 | |
| Emerson Process Management | 1 | 2 | \$18,638 |
| Ino-Tek Inc | 1 | 6 | \$18,454 |
| Core Electric Company Inc | 1 | 5 | |
| Boomer Construction Materials | 1 | 1 | |
| Air Dimensions Inc | 1 | 2 | |
| SBT Instruments A/S | 1 | 3 | |
| Major Brand Oil Company Inc | 1 | 3 | |
| Uline, Inc. | 1 | 21 | \$17,284 |
| Spina Electric Company | 1 | 21 | |
| | | | |
| TestAmerica Laboratories Inc | 1 | 2 | |
| Newark Element14 | 1 | 1 | \$16,482 |
| Environmental Resource Associates | 1 | 21 | \$16,051 |
| Scaffold Training Institute | 1 | 1 | |
| Anderson Process | 1 | 1 | |
| BigTime Software Inc. | 1 | 1 | |
| Airgas USA LLC | 1 | 3 | |
| Henry Ford College | 1 | 4 | |
| AMPS Incorported | 1 | 1 | |
| E2intel | 1 | 2 | |
| GHD Services Inc. | 1 | 2 | |
| Waste Management Of Michigan Inc | 2 | 9 | |
| EH Wachs | 1 | 5 | \$14,549 |
| SafetySkills, LLC | 1 | 1 | \$14,400 |
| Deep Trekker | 1 | 2 | \$14,090 |
| Kaizen Painting LLC | 1 | 1 | \$14,073 |
| | | | \$14,050 |

| Top Ten Awarded Vendors | Contract Executed Count | Purchase Orders Executed Count | Awarded Amount |
|--|-------------------------|-----------------------------------|----------------------|
| Dwyer Instruments Inc. | 1 | | \$14,040 |
| G.E. Distribution Service/ipromoteu | 1 | | \$14,022 |
| Bearcom | 1 | 4 | \$13,927 |
| Transcat Inc | 1 | 6 | \$13,918 |
| Kent Air Products Inc | 1 | | \$13,675 |
| Consulting-Portal Inc | 1 | | \$13,490 |
| Black Anvil Construction Supplies | 1 | | \$13,165 |
| Rotor Electric Co | 1 | | \$12,900 |
| Durawear Glove & Safety Co. Inc. Harrington Industrial Plastics LLC | 1 | | \$12,711 \$12,666 |
| Central Poly-Bag Corp | 1 | | \$12,550 |
| Cryogenic Pipe Freezing Solutions | 1 | | \$12,373 |
| AT&T | 1 | | \$12,296 |
| R.S. Means Company LLC | 1 | | \$12,190 |
| International Controls & Equipment | 2 | 4 | \$11,651 |
| Wesco Distribution Inc | 1 | 1 | \$11,478 |
| Thermo Electron North America LLC | 1 | 3 | \$11,422 |
| Spalding DeDecker | 1 | | \$11,125 |
| Hi-Lo Industrial Trucks Co. Inc. | 1 | | \$10,869 |
| TMI Compressed Air System | 1 | | \$10,726 |
| Bearing Service Inc | 1 | | \$10,447 |
| KVM Door Systems | 1 | | \$10,200 |
| Clark Construction Company Northern Machining & Repair, Inc. | 1 | | \$9,966 \$9,500 |
| Radwell International Inc. | 1 | | \$9,500 |
| T & N Services Inc | 1 | | \$9,340 |
| Kiesler Police Supply Inc | 1 | | \$9,309 |
| Havener Tech | 1 | | \$9,000 |
| Dice Career Solution | - | | \$8,995 |
| Inland Press | 1 | | \$8,977 |
| I & C Sales North Inc | 1 | 2 | \$8,926 |
| PEA Group | 1 | 1 | \$8,810 |
| Curvature Technologies LLC | 1 | 1 | \$8,653 |
| Quality Paving | 1 | | \$8,640 |
| Medler Electric Company | 1 | | \$8,509 |
| Dynamita | 1 | | \$8,400 |
| Applied Power and Controls Inc. | 1 | | \$8,400 |
| WPEngine Inc. LabStrong Corporation | 1 | | \$8,280 |
| Unconventional Solutions Inc | 1 | | \$8,260 \$8,250 |
| Specialty Maintenance Products | 1 | | \$8,142 |
| MIDCOM Data Technologies Inc. | 1 | | \$8,018 |
| Butcher & Butcher Construction Co. | 1 | | \$7,995 |
| Fife-Pearce Electric Company | | | \$7,948 |
| Fairfield Service Co. of Indiana | 1 | 1 | \$7,908 |
| Digital Assurance Certification LLC | 1 | 1 | \$7,500 |
| Cornerstone Controls Inc | 1 | | \$7,435 |
| Fab Tech Wastewater Solutions LLC | 1 | | \$7,300 |
| Torch Associates LLC | 1 | | \$7,146 |
| BAVCO | 1 | | \$7,065 |
| Hotsy Midwest Cleaning Systems | 1 | | \$6,999 |
| Tobys Instrument Shop Inc | 1 | | \$6,920 |
| HP INC EKUIPTECH, LLC | 1 | | \$6,906 \$6,682 |
| ERGIPTECH, LLC Engineered Lifting Technologies | 1 | | \$6,682 |
| Applied Industrial Technologies Inc | 1 | | \$6,638 |
| Allied-Eagle Supply Company LLC | 1 | | |
| PTS Professional Technical Service | 1 | | \$6,275 |
| Allstate Industrial Equipment | 1 | | |
| Nuair Fluid Power Inc | 1 | | \$6,072 |
| Apex Companies, LLC | 1 | 1 | \$6,000 |
| Gai-Tronics Corporation | 1 | 1 | \$6,000 |
| Walz & Krenzer Inc. | 1 | | \$5,900 |
| Jack Doheny Companies Inc | 1 | | \$5,825 |
| Public Rubber & Supply Co Inc | 1 | | \$5,716 |
| White Oak Environmental & Safety | 1 | 1 | \$5,701 |

| Top Ten Awarded Vendors | Contract Executed Count | Purchase Orders Executed Count | Awarded Amount |
|-------------------------------------|-------------------------|-----------------------------------|----------------|
| Pruftechnik Inc | 1 | 1 | \$5,700 |
| FTP Today Inc. | 1 | 1 | \$5,700 |
| Complete Battery Source | 1 | 3 | \$5,695 |
| Indian Springs Mfg. Co Inc | 1 | 2 | \$5,682 |
| Midwest Air Filter Inc | 1 | 6 | \$5,615 |
| Choctaw-Kaul Distribution Company | 1 | 12 | \$5,545 |
| Brady Worldwide Inc. | 1 | 1 | \$5,541 |
| Motorola Solutions Inc. | 1 | 1 | \$5,500 |
| Fibre Industries | 1 | 9 | \$5,437 |
| Mazzella Lifting Technologies Inc | 1 | 1 | \$5,356 |
| Blue Water Air Compressor | 1 | 1 | \$5,342 |
| 0 I Analytical | 1 | 2 | \$5,203 |
| Motion Industries Inc | 1 | 3 | \$5,138 |
| Wurth Baer Supply | 1 | 1 | \$5,000 |
| Engineer Supply | 1 | 1 | \$4,990 |
| Fluid Process Equipment | 1 | 1 | \$4,840 |
| Crown Lift Trucks | 1 | 10 | \$4,78 |
| Bearing Headquarters Co | 1 | 4 | \$4,707 |
| J.J. Supply Company Inc. | 1 | 3 | \$4,65 |
| Cech Corporation | 1 | 1 | \$4,639 |
| Kinetics Industries, Inc. | 1 | 2 | \$4,621 |
| Enterprise Holding Inc. | 1 | 1 | \$4,517 |
| De Nora Water Technologies, LLC | 1 | 1 | \$4,476 |
| JCL Snowplow Dealer Inc. | 1 | 1 | \$4,399 |
| Giffels Webster | 1 | 1 | \$4,320 |
| Discovery Solutions Inc | 1 | 2 | \$4,290 |
| Hamlett Environmental Technologies | 1 | 3 | \$4,284 |
| Michigan Valve & Fitting Inc | 1 | 6 | \$4,095 |
| PTSolutions | 1 | 1 | \$4,000 |
| AHB Tooling & Machinery LLC | 1 | 2 | \$3,954 |
| Kirk's Automotive Inc | 1 | 17 | \$3,945 |
| Commerical Group Lifting Products | 1 | 2 | \$3,921 |
| Fluke Electronics Corporation | 1 | 3 | \$3,868 |
| Cylinder Recyclers LLC | 1 | 1 | \$3,867 |
| Exotic Automation & Supply | 1 | 5 | \$3,778 |
| Access Inc | 1 | 1 | \$3,675 |
| Nelson Liquid Drive LLC | 1 | 1 | \$3,642 |
| VESCO Oil Corporation | 1 | 2 | \$3,618 |
| Biotage LLC | 1 | 1 | \$3,613 |
| ShredCorp. | 1 | 1 | \$3,600 |
| City of Highland Park | 1 | 1 | \$3,600 |
| American Water Works Association | 1 | 2 | \$3,565 |
| Helwig Carbon Products Inc | 1 | 2 | |
| Faro Imaging Solutions | 1 | 1 | |
| Advanced Technology Services Inc. | 1 | 1 | |
| Johnson Plastics Plus | 1 | 1 | |
| Thermo Fisher Scientific Asheville | 1 | 2 | |
| Andax Industries LLC | 1 | 7 | |
| Trescal | 1 | 2 | |
| Visual Workplace Inc. | 1 | 2 | |
| | | 2 | |
| Davenport Brothers Construction Co. | 1 | | |
| Gexpro | 1 | 1 | |
| Cadillac Asphalt LLC | 1 | 1 | |
| Conti Corporation | 1 | 3 | |
| TForce Freight | 1 | 1 | |
| Brooks Lumber Company | 1 | 7 | 1 |
| HP Electric Motor Inc. | 1 | 1 | |
| Tiger Presentations | 1 | 1 | |
| Fisher Scientific Company LLC | 1 | 1 | |
| Omega Engineering Inc | 1 | 2 | |
| K & K Maintenance Supply Inc | 1 | 3 | |
| M C Gutherie Lumber Company | 1 | 5 | |
| F B Wright Company | 1 | 2 | |
| Teletrac Inc | 1 | 3 | \$2,650 |
| Canon Solutions America Inc | 1 | 2 | \$2,605 |
| Power Plus Engineering Inc | 1 | 2 | |

| Top Ten Awarded Vendors | Contract Executed Count | Purchase Orders Executed Count | Awarded Amount |
|-------------------------------------|-------------------------|-----------------------------------|----------------|
| Consolidated Chemical | 1 | 1 | \$2,54 |
| Detroit Training Center | 1 | 1 | \$2,50 |
| Eastern Michigan University | 1 | 2 | |
| City of Detroit | 1 | 2 | 1 / |
| Swanky Restroom Trailers | 1 | 1 | \$2,30 |
| The Crowley Company | 1 | 1 | |
| Farnell Equipment Company | 1 | 1 | \$2,30 |
| NSI Lab Solutions Inc | 1 | 2 | \$2,29 |
| Ligas Enterprises Inc | 1 | 1 | \$2,28 |
| Accredited Lock & Door Hardware | 1 | 2 | \$2,27 |
| Gold Coin Laundries LLC | 1 | 1 | |
| Michigan Pipe & Valve Inc | 1 | 1 | \$2,08 |
| Raven Environmental Products Inc | 1 | 1 | \$2,06 |
| Association for Talent Development | 1 | 1 | |
| Eaton Engineering Services | 1 | 1 | \$2,03 |
| Xylem Water Solutions Usa Inc | 1 | 1 | |
| Southeast MI Community Alliance | 1 | 2 | |
| ZLED Lighting | 1 | 2 | 1.1.1 |
| Feledyne Leeman Labs | 1 | 1 | \$1,95 |
| Global Environmental Consulting LLC | 1 | 2 | \$1,95 |
| Bentley Systems Incorporated | 1 | 1 | \$1,92 |
| AVE Office Supplies | 1 | 3 | |
| Galloup | 1 | 2 | |
| Able Label | 1 | 1 | \$1,88 |
| National Ladder & Scaffold Company | 1 | 2 | \$1,87 |
| Poco Sales Inc | 1 | 2 | \$1,84 |
| Progressive Plumbing Supply Co Inc | 1 | 9 | \$1,84 |
| Interstate Trucksource Inc | 1 | 1 | \$1,82 |
| Spraying Systems Co. | 1 | 1 | \$1,81 |
| Industrial Scientific Corporation | 1 | 2 | \$1,79 |
| Parts Super Center | 1 | 1 | \$1,74 |
| Bell Fork Lift Inc | 1 | 2 | \$1,72 |
| C P E Filters Inc | 1 | 1 | \$1,71 |
| Flor Dri Supply Company Inc | 1 | 2 | \$1,71 |
| Meco Metals Co | 1 | 2 | \$1,64 |
| Identification Lamination Products | 1 | 3 | \$1,60 |
| an-Supply Detroit, LLC | 1 | 1 | \$1,50 |
| Advanced Calibration Designs | 1 | 1 | \$1,50 |
| Downriver Refrigeration Supply Co | 1 | 1 | \$1,49 |
| Balfrey & Johnston Inc | 1 | 1 | \$1,46 |
| RealTech Controls | 1 | 1 | \$1,43 |
| Lyon LLC | 1 | 2 | \$1,40 |
| Chemtrac Inc | 1 | 2 | \$1,35 |
| Cincinnati Time Systems | 1 | 3 | |
| Aero Filter Inc | 1 | 5 | \$1,34 |
| Watson-Marlow, Inc | 1 | 1 | |
| Chemical Systems Inc | 1 | 1 | |
| Feledyne Isco | 1 | 2 | |
| MSA Safety Sales LLC | 1 | 1 | |
| Allegra Marketing Print Mail | - 1 | 1 | |
| Dani's Transport | 1 | 1 | |
| SW Controls Inc | 1 | 1 | |
| Central Metallizing & Machine | 1 | 1 | |
| Downriver Utility Wastewater Auth. | 1 | 4 | |
| Spiral Binding Company Inc | 1 | 1 | |
| Thomson Reuters | 1 | 1 | |
| Michigan Municipal League | 1 | 1 | |
| HD Edwards & Company | 1 | 7 | |
| ade Scientific Inc | 1 | 2 | |
| | 1 | 1 | |
| Powder Buy The Pound | | | |
| York Repair Inc | 1 | 1 | |
| Dani's Aggregate Inc. | 1 | 1 | |
| Cashco Inc. | 1 | 1 | |
| Contractors Connection Inc | 1 | 1 | |
| McMaster-Carr Industrial Supply Co | 1 | | |

| Top Ten Awarded Vendors | Contract Executed Count | Purchase Orders Executed Count | Awarded Amount |
|--|-------------------------|-----------------------------------|---|
| IDN Hardware Sales, Inc. | 1 | 1 | \$728 |
| Drinkpod LLC | 1 | 2 | \$720 |
| Empire Equipment & Supply Inc. | 1 | 2 | \$674 |
| B & H Machine Sales, Inc | 1 | 2 | \$670 |
| Pollardwater | 1 | 2 | \$604 |
| Seton | 1 | 1 | \$599 |
| YourMembership.com, Inc. | 1 | 2 | \$598 |
| Airtech Controls Co | 1 | 1 | \$576 |
| United States Plastic | 1 | 2 | \$562 |
| Carleton Equipment Co. | 1 | 1 | \$561 |
| Hygiena LLC | 1 | 1 | \$554 |
| Compressor Engineering Corporation | 1 | 1 | \$552 |
| Sell's Equipment | 1 | 1 | \$540 |
| ATI Northbrook Operations | 1 | 1 | \$540 |
| • | | | |
| Morgan Advanced Materials ISE Metal Inc | 1 | 1 | \$528 \$524 |
| | | | |
| Global Equipment Company Inc. | 1 | 2 | \$514 |
| FedEx | 1 | 1 | \$511 |
| Deaf Community Advocacy Network | 1 | 1 | \$500 |
| GEO Jobe GIS Consulting | 1 | 1 | \$500 |
| South Park Welding Supplies Inc | 1 | 1 | \$499 |
| Allied Electronics Inc | 1 | 1 | \$496 |
| Michigan Water Environment | 1 | 1 | \$487 |
| Chart Pool USA Inc | 1 | 1 | \$487 |
| PE Energy - Industrialstop | 1 | 1 | \$485 |
| Chem Flowtronics Inc. | 1 | 1 | \$466 |
| Radiation Safety Services | 1 | 1 | \$445 |
| Tintometer Inc. | 1 | 1 | \$430 |
| The Lab Depot Inc | 1 | 1 | \$407 |
| Service Specialists of America | 1 | 1 | \$345 |
| McGard LLC | 1 | 1 | \$274 |
| Detroit Legal News | 1 | 1 | \$255 |
| Oden Training | 1 | 1 | \$250 |
| Wayne County | 1 | 3 | \$228 |
| Society For Human Resource Mgt. | 1 | 1 | \$219 |
| Prompter People Inc. | 1 | 1 | \$199 |
| Wright Tool Co | 1 | 2 | \$187 |
| Tri Star Steel Corporation | 1 | 1 | \$107 |
| Bearings and Industrial Supply Co | 1 | 1 | \$100 |
| HBARSCI, LLC | 1 | 1 | \$173 |
| , - | | | |
| Public Lumber Company | 1 | 1 | \$125 |
| Liberty Plumbing Supply Company A-1 Truck Parts Detroit | | 1 | \$116 |
| | 1 | 2 | \$111 |
| George Instrument Company | 1 | 1 | |
| State of Michigan | 1 | 1 | |
| Gravotech, Inc. | 1 | 1 | · · · · · |
| ZVerse Inc. | 1 | 1 | |
| Acme Bolt & Nut Co Inc | 1 | 1 | · · · · · |
| Baker's Gas & Welding Supplies Inc | 1 | 1 | \$37 |
| H&H Metals Company | 1 | 1 | the second se |
| Grand Total | 173 | 3426 | \$311,461,322 |

| Contract Number | Vendor | Contract Description | Amount (Millions) |
|------------------------------|---|---|----------------------------|
| GLWA-CON-149 | Inland Waters Pollution Control Inc | Emergency Sewer Repair | \$16,242,525 |
| GLWA-DB-226 | Jay Dee Contractors Inc. | Repair & Rehab (DRI) from Alter Road to WWRF | \$15,618,818 |
| GLWA-CON-297 | Weiss Construction Co LLC | Fairview Sewage Pumping Station Improvements | \$15,229,344 |
| GLWA-CS-272 | AECOM Great Lakes, Inc | Capitol Improvement Program Delivery | \$13,684,050 |
| GLWA-PC-792 | New England Fertilizer Company | Biosolids Dryer Facility | \$13,058,667 |
| 1803258 | Walsh Construction Company | CIP 122003 WW Northeast Transmission Project | \$12,687,757 |
| GLWA-DB-150 | Ballard Marine Construction LLC | CIP 1327 DB/ Repair PA, Springwell & NE Tunnels | \$11,281,444 |
| 1803621 | Ric-Man Construction Inc | CIP # 122006 Wick Road 48" Water Main | \$10,703,910 |
| 1901658 | Lakeshore Global Corporation | Facilities Maintenance Services | \$9,120,725 |
| GLWA-CON-252 | Clark Construction Company Kokosing Industrial Inc. | SWTP Steam/Condensate Return, & Compress Air Design Build Improvement project of Sedimentation Basin Sluice Gates, | \$8,749,040 |
| | 0 | Guides & Hoists | |
| 1900744 | Pullman SST, Inc. | Reservoir Rehab (Construction Phase) CIP 122004 Engineering Services for 2.5 Miles of 96 InchTransmission | \$7,269,564 |
| 1900741 | Jacobs Consultants, Inc. Rotor Electric Co | Main Security Informations Incomposite | \$7,261,215 |
| GLWA-SOQ-135A | | Security Infrastructure Improvements | \$6,185,196 |
| 1803776 1803312 | Commercial Contracting Corporation Kokosing Industrial Inc. | West Service Center Reservoir, Pump House and Division Valve | \$5,885,130 \$5,274,753 |
| CIWA CON 159 | Laborhova Clobal Componition | Replacement | ¢E 1E0 260 |
| GLWA-CON-158 GLWA-CON-268 | Lakeshore Global Corporation Salenbien Trucking & Excavating Inc | Specialized Services Contract | \$5,150,369 |
| GLWA-CON-208 | Salendien Trucking & Excavating Inc | Park - Merriman 24 Watermain | \$4,590,708 |
| GLWA-CON-285 | Lakeshore Global Corporation | Wholesale Water Meter Pit Rehabilitation and Meter Replacement | \$4,442,041 |
| GLWA-CON-170 | Mobile Dredging & Video Pipe Inc | Percent Complete: CON-170: Sludge Removal & Disposal Services @ NE, SW and Springwells WTP | \$4,441,180 |
| 1900134 | Barton Malow Company | CIP #14002 Springwells WTP Low Lift Suction Isolation Gate Replacement | \$4,405,523 |
| 1804129 | Lakeshore Global Corporation | Schoolcraft Raod 48" Water Transmission Main | \$3,901,063 |
| 1902658 | Marra Services Inc | New Capital Project Rehabilitation of GLWA Outfalls-Phase IV. | \$3,618,440 |
| 1802170 | Enterprise Fleet Management | Fleet Management Services | \$3,485,650 |
| 1900796 | Lakeshore Global Corporation | Rehabilitation of Outfalls - Phase II | \$3,376,532 |
| 1903312 | Major Cement Company | CIP 122013 Phase 1 14 Mile Transmission Main Loop | \$3,274,580 |
| 1803025-2 | Commercial Contracting Corporation | Job Order Contracting Services (WRRF & CSOs, Water Plants) | \$2,969,110 |
| GLWA-CON-197 | Weiss Construction Co LLC | Modification to Incinerator Sludge Feed Systems in Complex II at WRRF | \$2,940,845 |
| GLWA-CS-103 | CDM Smith Michigan Inc | Complete: GLWA-CS-10: Pro Engr Svcs for SPWTP Low & High Lift Pumping Station Imp. (\$9,935,926.00) | \$2,705,409 |
| GLWA-CON-238 | Weiss Construction Co LLC | Chlorination & Dechlorination Process Equipment Improvements | \$2,704,412 |
| GLWA-CS-299 | Jacobs Consultants, Inc. | Complete: CS-299: CSO Facilities Needs Assessment Project | \$2,635,128 |
| 2920576 | Linde Inc. | Gaseous Oxygen | \$2,082,565 |
| | Praxair Inc | Gaseous Oxygen | \$480,750 |
| GLWA-CON-089A | Lakeshore Global Corporation | Job Order Contract - Low Voltage Wiring Services | \$2,538,643 |
| 1802448 | Brown and Caldwell LLC | Complete: CS-1802448: 14 Mile Transmission Main Loop CIP# 122013 | \$2,337,256 |
| 1803823 | Weiss Construction Co LLC | CIP # 111007 Lake Huron Clarifier and Sludge Improvement | \$2,182,378 |
| GLWA-CS-119(a) | DXC Technology Services LLC | T&M: CS-119: WAM Support and Enhancement Services (\$7,000,000.00) | \$2,114,936 |
| 2000610 | Lakeshore Global Corporation | CIP 115001- Piping, Valves and Venturi Meters Replace | \$2,010,248 |
| 1803025-6 | Weiss Construction Co LLC | CCD #1 - LED Lighting Replacement JOC See Reg #1903664 | \$1,960,444 |
| 9172 | Kemira Water Solutions | Ferric Chloride | \$1,908,966 |
| GLWA-PC-757 | Tooles Contracting Group LLC | Rehab. Rectangular Primary Clarifiers Nos. 15 & 16 @ WWTP CIP 291 (\$51,905,000.00) | \$1,903,405 |
| GLWA-CS-120 | Arcadis of Michigan LLC | Complete: CS-120: Freud & Conner Creek Pump Station Improvements Study & Design CIP 1315 | \$1,851,370 |
| GLWA-CS-102 | Wade Trim Associates Inc | Rehabilitation of Pump Station No. 1 Improvements | \$1,782,711 |
| 1902224 | Pullman SST, Inc. | CIP 260614, DB Contract for CSO Facilities Structural Improvements | \$1,687,067 |
| 1904332 | GDI Services Inc | Blanket PO for janitorial services at GLWA facilities for one (1) year 04/06/2020 - 04/05/2021 | \$1,633,562 |
| GLWA-CS-166 | PMA Consultants LLC | As Needed: Capital Improvement Program Implementation Asst. & | \$1,620,006 |
| 1134 | Emerson Process Management | Related Services CIP 380401 Emerson Projects at WWP and WRRF - Contract #1134 am | \$1,588,994 |
| 1803538 | Weiss Construction Co LLC | CIP#132006 Ford Road Booster Station Improvements - Discharge | \$1,569,542 |
| GLWA-CON-181 | Lakeshore Global Corporation | Pressure Control Water Transmission Main Repair | \$1,470,722 |
| 1803769 | Arcadis of Michigan LLC | Lake Huron Low Lift /High Lift and Wash Water Pumping Improvements | \$1,467,047 |
| 1803942 | OHM and WSP, A Joint Venture | CIP 122016 Transmission Loop to the Downriver System | \$1,408,098 |
| GLWA-CS-1747 | Brown and Caldwell LLC | Complete: Prof Engineering Srvcs for Fairview Sewage Pumping Station Improvements CIP1241 | \$1,396,090 |

| Contract Number | Vendor | Contract Description | Amount (Millions |
|----------------------------|--|--|----------------------|
| GLWA-CS-090A | PCI LLC | Complete: Professional Engineering Svcs for Instrumentation & SCADA Sys Svcs CIP 1264 (\$5,663,694 | \$1,388,52 |
| GLWA-CON-179 | PCI LLC | T&M: CON-179 Professional and Technical Services for Sewer Meter Support | \$1,364,90 |
| 1802575 | Brown and Caldwell LLC | Complete: CS-1802575: Conveyance System Engineering Services | \$1,312,84 |
| 1802745 | Ric-Man Construction Inc | Repair of Water Transmission Mains, Valves, Etc. | \$1,312,77 |
| 1803705 | Arcadis of Michigan LLC | Comprehensive Corrosion Control Optimization Study O&M | \$1,232,05 |
| 2000302 | Dunbar Mechanical, Inc. | HVAC SERVICE PROVIDED TO WASTEWATER OPERATIONS & CSO STATIONS | \$1,145,96 |
| 1904337 | Hazen and Sawyer | WRRF PS-2 Bar Racks Replace & Grit Collection System Improvements | \$1,041,97 |
| 50817 | Motor City Electric Co | Labor, Material and Maintenance for Electrical Switchgear and Power | \$1,013,62 |
| 8901 | PVS Nolwood Chemical Inc | Transformers Sodium Hypochlorite for CSO Basins kr | \$951,20 |
| 1900702 | Premier Group Associates LC | Grounds Maintenance Services | \$920,78 |
| GLWA-CS-168 | FK Engineering Associates | Complete: CS-168: Rehab of Conveyance System Interceptors and Trunk Sewers CIP 1263 | \$901,69 |
| 1802179 | Polydyne Inc | | \$897,96 |
| | Applied Science Inc | Flocculant, Organic Polymer CIP #222004 Conveyance System Infrastucture Improvements | |
| 1803709 | Applied Science Inc | | \$894,79 |
| 2000292 | Hydromax USA LLC | GLWA New Valve Exercising Project for Field Services for a period of 3 years in the amount of \$4.5 mi | \$887,98 |
| 1803025-3 | DE-CAL Inc | Job Order Contracting Services (WRRF & CSOs, Water Plants) | \$857,68 |
| GLWA-CON-281 | Weiss Construction Co LLC | SWWTP High Lift Pump Discharge Valve Actuators Replacement and HLP System Modification | \$848,85 |
| GLWA-CS-259 | Somat Engineering Inc | As-Needed Engineering Services for Concrete Testing, Geotechnical Soil Borings & other Testing Srvcs. | \$848,79 |
| 1904197 | LimnoTech | GLWA Long Term CSO Control Plan Update. | \$832,32 |
| 1901569 | Dell Computer Corporation | Dell MiDeal Agreement | \$823,64 |
| 2001488 | Pullman SST, Inc. | CIP 122017 7 Mile / Nevada transmission main | \$807,87 |
| GLWA-CON-109 | Lakeshore Global Corporation | Emergency Refurbish of Storm Pump 5 & 7 | \$804,19 |
| GLWA-CS-152 | CH2M Hill Engineers Inc | Complete: CS-152: Analysis for Transmission Main from WWP TP to NEWTP CIP 122003 (\$2,813,216.63) | \$791,44 |
| 1802410 | Commercial Contracting Corporation | Rehabiliation of various sampling sites and PS2 Ferric Chloride System | \$749,16 |
| GLWA-CS-151A | Hazen and Sawyer | complete: CIP 170801 Resevoir Inspection, Design and Rehabillatation at Various GLWA Sites | \$747,88 |
| 1904254 | Dan's Excavating Inc. | CIP 122003 WWP to NEWTP Phase #2 | \$714,93 |
| 1803483 | Schreiber Corporation | CIP# 171501 - Roof Replacements at Various Water Facilities | \$700,78 |
| 1905101 | J F Cavanaugh Company | Emergency replacement of High Pressure Water Tank | \$692,92 |
| GLWA-CS-198 | CH2M Hill Engineers Inc | Complete: GLWA-CS-198: Asset Management Planning | \$677,66 |
| GLWA-CON-234 | Weiss Construction Co LLC | Conner Creek CSO Basin Rehabilitation | \$654,52 |
| 2000092 | Wade Trim Associates Inc | Systems Planning | \$636,97 |
| GLWA-CON-253 | Ric-Man Construction Inc | Springwells Water Treatment Plant Reservoir Fill Line Improvements | \$615,21 |
| 1901036 | LaSalle Construction Services | CIP # 112005 Northeast Water Treatment Plant Replacement of Covers for Process Water Conduits | \$610,08 |
| 1900318-6 | Wade Trim Associates Inc | Task Order Engineering Services for GLWA | \$589,37 |
| | | 0 0 | |
| 1900456 | Atlas Bleachers | Bleacher Design,Installation and Inspections at Water Works Park | \$569,96 |
| 1803508 GLWA-CS-216 | JCI Jones Chemicals Inc | Liquid Chlorine - Springwells am T&M: Third Party Facilitators - Customer Outreach Programs | \$569,77 \$556,03 |
| GLWA-US-216 GLWA-LS-295 | Bridgeport Consulting LLC Dickinson Wright PLLC | T&M: Legal Representation subsequent to Lease Agreement with the | \$550,03 |
| 2001082 | Preventive Maintenance Technologies | CofD & Regional Water & Wastewater Emergency Standby Generator Preventative Maintenance (Water). | \$545,50 |
| | Commercial Contracting Corporation | Replaces req#2000432 CIP132007 Imlay Pumping Station - Energy Management Freeze | \$538,88 |
| . , | | Protection Pump Installation | |
| GLWA-CS-300 | CCH Tagetik | CS-300: Implementation Plan am | \$538,73 |
| GLWA-CS-239 1803594 | CDM Michigan, Inc HESCO Group Inc | T&M: CS-239: Good Sewer Metering Analysis & Support Services Maintenance Service contract for Accusonic Flow Meters at all CSOs (7) | \$533,91 \$47,61 |
| | HESCO Group Inc. | Maintenance Service contract for Accusonic Flow Meters at all CSOS (7) | \$483,48 |
| 1003000 | - | Blanket PO for Vehicle Up-Fitting | \$529,39 |
| 1903098 | Truck & Trailer Specialties Inc. | 09/01/2019 - 01/12/2021 | |
| 1803126 | Hach Company | Hach Company Combined Purchases | \$520,06 |
| 1901995 | Conti Corporation | HVAC CONTRACT SERVICES for all GLWA Facilities | \$501,48 |
| GLWA-CS-195 | The Foster Group LLC | Financial Management Consulting Services | \$500,00 |
| | Pullman SST, Inc. | Reservoir Rehab (Construction Phase) | |
| RFB 1900744 GLWA-PC-795 | Tooles Contracting Group LLC | Pumping Station No. 2 Pumping Improvements CIP 961 (\$3,275,000.00) | \$469,07 |

| Contract Number | Number Vendor Contract Description | | Amount (Millions) |
|-----------------|---|---|------------------------|
| 1901555 | Premier Group Associates LC | Snow Removal & De-Icing Svcs for Two (2) Yrs with two - One (1) Year Renewal Opts Begins 11/19/19 | \$436,58 |
| 2100917 | City of Livonia | CIP 122005_1804129 Schoolcraft Rd_IGA City of Livonia and GLWA_10"Sanitary Sewer Installation_Tempora | \$433,95 |
| 1803978 | Ceridian HCM Inc | Ceridian Human Resources Information Systems (HRIS) | \$428,30 |
| | | | |
| | Barton Malow Company | Job Order Contracting Services (WRRF & CSOs, Water Plants) | \$427,000 |
| 1901609A | PTS Contracting | CIP No. 260613 - HVAC Improvements at Baby Creek CSO Facility | \$425,12 |
| 1903601 | CDM Smith Michigan Inc | Yard Piping Engineering Services, CIP 216006 Chuck Reinhart, 297.0154 | \$424,143 |
| 1802499 | HDR Michigan, Inc. | WWP WTP Building ventilation improvements | \$410,81 |
| 1903426 | The Osborn Engineering Company | TOES: ARC FLASH STUDY | \$408,764 |
| 9173 | PVS Technologies Inc | Sulfur Dioxide | \$401,074 |
| GLWA-CS-171 | Brown and Caldwell LLC | Complete: CS-171: Raw Sludge Clarifiers and Raw Sludge Pumping Station Improvements (\$939,440.00) | \$397,686 |
| 4302 | JCI Jones Chemicals Inc | 1st renewal year of 90-ton Chlorine | \$397,273 |
| 1900949 | Aquasight LLC | AURA 5.2 Subscription | \$378,56 |
| GLWA-CS-213 | NTH Consultants Ltd | T&M: CS-213 Environmental Health and Safety Compliance Services | \$369,622 |
| 1001010 1 | | *note added | ¢0/7 /// |
| 1801840-1 | Carlette Construction & Consulting | Concrete Repairs at WRRF Southweast Water Treatment Plant Sludge Treatment and Waste | \$367,469 |
| sw-548 | Colasanti Construction Services | Washwater Treatment Facilities | \$326,172 |
| 1803718 | Lakeshore Global Corporation | CIP No. 260611 - Construction Work for HVAC Improvements at Leib CSO Facility | \$321,203 |
| 1902040 | DMC Consultants, Inc. | CIP 260615 - Site Improvements at Leib and Puritan Fenkell CSO Facilities | \$299,298 |
| 1902721 | PFM Asset Management LLC | Investment Advisor Services | \$293,947 |
| 1905077 | PCI LLC | Level and flow instrumentation upgrade (Puritan Fenkell & 7 Mile CSOs) | \$266,627 |
| 2905129 | Waste Management Of Michigan Inc | Disposal, Biosolids Invoice # wsd 02012016 | \$256,630 |
| GLWA-LS-140 | Dykema Gossett PLLC | T&M: Legal Rep. Consultation & Advice for Highland Park v USEPA | \$250,103 |
| 01 HILL 00 00/ | | | |
| GLWA-CS-006 | Broadspire Services Inc | As-Needed: Loss Fund Reimbursement | \$249,903 |
| GLWA-CS-071 | Data Consulting Group Inc | T&M: Professional Services Contract (\$4,114,800.00) | \$241,610 |
| 1904736 | Linko Technology Inc | Linko (PIMS) | \$240,435 |
| 1804112 | LaSalle Construction Services | 7 Mile CSO RTB - Site Improvements | \$239,221 |
| 1803025-4 | J F Cavanaugh Company | Job Order Contracting Services (WRRF & CSOs, Water Plants) | \$235,018 |
| 2850143 | Waterfront Petroleum Terminal Co. | Furnish Fuel and Diesel Fuel | \$233,427 |
| LA-1519 | New Technology Development | Lease: Analytical Lab at Michigan Center for High Technology | \$229,775 |
| 1900318-3 | Hazen and Sawyer | Task Order Engineering Services for GLWA | \$229,343 |
| 1900902 | Regents of the University of Mich. | Asset Management of the Drinking Water Transmission System | \$218,513 |
| 2001434 | Regents of the University of Mich. | Assessing the Integration of Real Time Control (RTC) Water Management Systems into GLWA?s Long Term C | \$216,285 |
| 1904860 | Idexx Laboratories | Idexx Bacterioligical testing materials for Water Plants and Water Quality Lab Place Holder Requisiti | \$206,366 |
| 1803456 | Rickman Enterprise Group LLC | Scum Disposal and Hauling Contract - 3 Year Contract | \$202,255 |
| GLWA-CS-1671 | METCO Services Inc | Complete: CS:1671 Steam, Condensate Return and Compressed Air Piping Imp.@ SPWTP | \$200,828 |
| 2001928 | Structural Preservation Systems | Kercheval Pipe Renewal Pilot | \$200,760 |
| GLWA-CS-282 | WSP Michigan Inc. | GLWA-CS-282: Design and Construction Assistance Services for the | \$200,429 |
| 1902299 | Avante Solutions, Inc. | Springwell's Administrative Building Information Technology Service Management (ITSM) Tool | \$200,099 |
| GLWA-CS-235 | Marsh USA Inc. | Property and Casualty Insurance Brokerage and Ancillary Services | \$200,000 |
| GLWA-CS-201 | Professional Service Industries Inc | As Needed: JOC for Const., Environmental, Special Testing, Inspection, & | \$198,339 |
| 2001456 | Spence Brothers | other technical services Funds Approval Form for SPWTP 1958 Settled Water Conduit and | \$190,676 |
| 1900933 | Baker Tilly Virchow Krause, LLP | Loading Dock Concrete CIP #114016 External Auditor Services | \$190,070 |
| GLWA-CS-055 | AECOM Great Lakes, Inc | Complete: Replacement of Yard Piping, Valves, & Venturi Meters at | \$189,596 |
| | | Waterworks Park (\$3,738,149.00) | |
| 2001686 | Schreiber Corporation | Emergency repair of roof on EB 1 at WRRF | \$179,000 |
| 4773 | American Gear & Engineering, Inc | Lightning gearbox rehabilitation program | \$176,730 |
| SCO-1015 | HORIZON Lab Systems | Laboratory Information Management System (LIMS) | \$176,490 |
| 1803821 | Trimble Inc | Trimble Unity Implementation and Contract Amendment No. 2 | \$174,065 \$171,000 |
| 2001498 | Commercial Contracting Corporation | 1 Leib Fiberglass Tank Repair | |
| 2000284 | Johnson Controls Fire Protection LP | Specialized Procurement - Professional Services Contract for the preventative maintenance service Sourcewell | \$169,96 |
| 2000382 | Plante & Moran PLLC | Management Consulting Services for Fleet Implementation Support | \$169,435 |
| | | | |

| Contract Number | Number Vendor Contract Description | | Amount (Millions) |
|--------------------|---|---|------------------------|
| GLWA-CS-039 | Black & Veatch Ltd Of Michigan | Complete: CS-039: Units of Service for Non-Master Metered Customers of GLWA and System Water Audit | \$162,326 |
| 1902063 (GLWA-CS-) | Brown and Caldwell LLC | CIP 132012 Ypsilatint Pump Station Improvements | \$159,333 |
| 1802146 | FM Sylvan, Inc. | Renovation and Upgrade of Suction and Discharge Valves | \$158,00 |
| 1904562 | Phoenix Environmental Inc | GLWA Fuel Maintenance | \$150,630 |
| GLWA-CS-002(a) | PFM Financial Advisors LLC | Financial Advisory Services | \$157,323 |
| 1803025-5 | Lakeshore Global Corporation | Job Order Contracting Services (WRRF & CSOs, Water Plants) | \$157,040 |
| 2001236 | Eastern Oil Company | Warehouse Inventory Items - Industrial Lubricants (PO is now #17099 | \$154,233 |
| 1903921 | Veolia Water Technologies Canada | for WAM blanket) Baby Creek CSO : Spare Parts Fine Screen Brushs kr | \$150,025 |
| GLWA-CS-036 | CDM Smith Michigan Inc | T&M: CS-036: Professional services contract to provide GLWA with this master plan | \$147,863 |
| 2001563 | Black & Veatch Ltd Of Michigan | Dearborn Master Metering Assistance | \$145,410 |
| GLWA-CS-1749 | Alfred Benesch & Associates | Complete: Professional Eng. Srvcs for Ford Road Booster Station Improvements CIP 1293 (\$499,579.00) | \$145,206 |
| 1905154 | Clayton Industries | CLAYTON INDUSTRIES (STEAM GENERATOR REPAIR WATER PLANTS) | \$144,365 |
| 2000279 | Fishbeck | Springwells Water Treatment Plant Flocculator Drive Replacement | \$112,009 |
| | Fishbeck, Thompson, Carr & Huber | Springwells Water Treatment Plant Flocculator Drive Replacement | \$24,197 |
| CIWA-CS-201 | Sigma Associatos Inc | Complete: As Needed: Ceneral Engineering Services | ¢12E 045 |
| GLWA-CS-301 | Sigma Associates Inc D/A Central Inc | Complete: As Needed: General Engineering Services | \$135,043 \$132,094 |
| 1164 1802144 | D/A Central Inc Dykema Gossett PLLC | Intrusion Alarm Maintenance Contract - Security - Contract #1164 Contract Title: Government Relations and Legislative Representation | \$132,094 |
| | Zausmer, P.C. | Services Legal Representation | \$132,660 |
| 2003901 | United States Geological Survey | U.S. DEPARTMENT OF THE INTERIOR, U.S. GEOLOGICAL SURVEY, NON- STANDARD JOINT FUNDING AGREEMENT FOR WAT | \$128,500 |
| 2001235 | Lubrication Engineers Inc. | Warehouse Inventory Items - Lubricants (PO is now #17100 for WAM | \$126,427 |
| GLWA-CON-254 | Weiss Construction Co LLC | blanket) Oakwood CSO Control Facility Drain Valve Improvements | \$124,193 |
| 2001433 | Fleishman Hilliard Inc | Marketing and Communications Services (3 year contract with two 1 year | \$120,845 |
| 1901767 | Brown and Caldwell LLC | renewals) Complete: CS-1901767: Newburgh BPS Pumping system & Building | \$118,258 |
| | | Upgrades | |
| 1900217 | Future Fence Company | Blanket po for fence and fence repair, gates, and parking control devices | \$117,611 |
| 1900646 | Unifirst Corporation | Uniform Rental and Laundering for Water Supply Operations | \$117,095 |
| GLWA-CS-273 | Bonfire Interactive Ltd | Bonfire public pro - Renewal Option 2 | \$117,000 |
| GLWA-CS-302 | Fleishman Hilliard Inc | T&M: Communication and Marketing Services | \$112,909 |
| 1902505 | Process Wastewater Technologies LLC | Repair service for existing horizontal COPA screens (total 8) at Leib CSO Facility | \$110,900 |
| 2001694 | Public Sector Consultants | WRAP program design advisor services | \$109,972 |
| GLWA-CS-083 | West Coast Labour Systems Corp | Service-Link (Work Force Management System) Maintenance Agreement (\$ 507,400.30) | \$108,497 |
| 1901836 | Marra Services Inc | Baby Creek CSO Anchor and Wedge Improvement to West End Sewer | \$108,267 |
| 2002909 | Jett Pump & Valve LLC | lett pump to replace media in Chlorine scrubber | \$107.999 |
| GLWA-CON-223 | Lakeshore Global Corporation | Facilities Maintenance Services | \$106,398 |
| 1903598 | The Christman Company | Yard Piping, Construction Management CIP 216006 Chuck Reinhart, 297.0154 | \$104,375 |
| 1900356 | Grainger | Warehouse Inventory Items - Safety | \$100,364 |
| LS-2002530 | Dickinson Wright PLLC | Midwest Valve v. GLWA | \$99,806 |
| 2001402 | Michigan State University | COVID-19 / SARS-CoV-2 in Detroit: Surveillance and Prediction | \$99,161 |
| 1803810 | 360water, Inc. | Training Services | \$99,123 |
| 1903355 | PCI LLC | UPS Replacement Pumping Station 1 Rack & Grit & MP-1 & Jeff Sampling Stating | \$96,515 |
| GLWA-CON-250 | Weiss Construction Co LLC | Improvements | \$96,478 |
| 1803641 | Power Process Piping, Inc. | Remove and Replace 6 Inch Underground Air Blower Line Pest Control and Extermination Services for Three (3) Years with 2 - 1 | \$95,264 |
| 1803933 | Rose Pest Solutions | Year Renewal Options | \$94,667 |
| 1803447 | Integrated Power Services LLC | Motor Repair for the Five Water Plants (10/7/19 - 10/6/22) | \$94,533 |
| 1900318-4 | Hubbell, Roth & Clark, Inc. | Task Order Engineering Services for GLWA | \$92,710 |
| 1902702 | Interior Environments LLC | Furniture and Flooring -planning, coordination, procurement, installation and warranty services.Fur | \$91,571 |
| 2001317 | Secure Door LLC | Preparing assessment and repair quotes for selected Overhead doors and hardware at various GLWA facil | \$91,076 |
| 1902548B | Johnson Controls Inc. | (HVAC) Pumping Stations Repair and Preventative Maintenance Services | \$89,311 |
| 1903258A | Aerotek Inc. | Organizational Developement Benefits Team Member am | \$89,123 |
| 2002204 | Aquasight LLC | APOLLO ADVISER APPLICATION MAINTENANCE & DEVELOPMENT OF NEW DASHBOARDS - (3 year contract with 2 - 1 | \$85,900 |

| Contract Number | Vendor | Contract Description | Amount (Millions) |
|--------------------|--|---|--------------------|
| GLWA-CS-160 | METCO Services Inc | T&M: CS-160: General Engineering Services (\$479,049.75) | \$84,441 |
| 1802543 | Hazen and Sawyer | Complete: CS-1802543 Rehabilitation of Ferric Chloride Feed System PS- 1 & Complex B Sludge Liines | \$83,988 |
| 1076 | Cintas | Service - Uniforms | \$81,822 |
| 2001831 | Plante & Moran PLLC | ERP Implementation Support | \$81,50 |
| GLWA-CS-034 | Tetra Tech of Michigan PC | Complete: High Lift Pump Discharge Valve Actuators Replacement at SWTP | \$80,34 |
| 2002908 | David D. Taylor | Oracle WAM System Specialist for a Three (3) Year Period | \$79,433 |
| 1900318-1 | Arcadis of Michigan LLC | Task Order Engineering Services for GLWA | \$77,12 |
| 3979 | Linde Inc. | Lease, Operate, and Maintain the Oxygen Vaporizer | \$4,92 |
| | Praxair Inc | Lease, Operate, and Maintain the Oxygen Vaporizer | \$71,31 |
| 2000644 | DES Electric LLC | POWER MONITORING INSTALLATION PROJECT | \$75,94 |
| 1803448 | Birclar Electric & Electronics LLC | Parts and Repair Services for Various Motors | \$75,41 |
| GLWA-PS-074 | Hugh Connolly | T&M: PS-074: Oversight of Construction Contractors for Water & Wastewater Treatment (\$300,000) | \$75,27 |
| GLWA-LS-1902591 | Zausmer, P.C. | Legal Representation Re: PC-789 and CON-250, Pumping Station #1 & Grit and MPI & Jefferson Sampling | \$74,778 |
| 2001574 | Emphasys Software | Sympro Debt Management Software | \$74,000 |
| 3258 | Polydyne Inc | Flocculant, Organic Polymer - Waste Water Treatment Plant | \$73,740 |
| GLWA-PS-246 | Robert M Kowal | T&M: PS-246: PSAdministrative Consent Order for the WWTPt (\$178,200.00) | \$73,225 |
| 1900318-5 | HDR Michigan, Inc. | Task Order Engineering Services for GLWA | \$72,218 |
| 1900995 | Motor City Electric Co | Electrical Preventative Maintenance and Repair Contract for GLWA Wastewater Facilities | \$71,585 |
| 1902548A | Johnson Controls Inc. | (HVAC) Water Treatment Plants Repair & Preventative Maintenance Services | \$71,140 |
| GLWA-CS-257 | Lockton Companies LLC | Employee Benefits Broker/Consultant | \$71,069 |
| 1803437-1 | Kennedy Industries Inc | Pump Repair for the Five Water Plants | \$71,064 |
| 1900318-2 | Black & Veatch Ltd Of Michigan | Task Order Engineering Services for GLWA | \$71,018 |
| 1902059 | Michigan State University | Transport and Fate of Nutrients in Biosolids for a Two (2) Year Period | \$70,895 |
| GLWA-CON-133 | Lakeshore Global Corporation | Water Plant Production Flow Measurement and Related Facility Improvements | \$70,539 |
| 1904862 | Geotab USA, Inc. | Purchase of GEOTAB Enterprise Fleet Management Modules for Fleet | \$68,809 |
| 1903179 | Plante & Moran PLLC | Tagetik Software Implementation | \$68,38 |
| 1902536 | Waste Management Of Michigan Inc | Refuse & recycling services various locations 10/15/2019 through 10/14/20 with two (2) one (1) year r | \$65,958 |
| 2001077 | Systems Specialties | Conner Creek CSO : Rotork Repairs / SHCRV-6 Quote: MVRO200226-7 | \$63,473 |
| 1902151 | Wayne State University | PFAS Health and Ecological Impacts: Investigation of PFAS health impacts on humans and wildlife | \$62,357 |
| 1803077 | CK Environmental, Inc. | Air Emissions Stack Testing Services for Complex 2 Incinerators | \$61,428 |
| GLWA-LS-193 | Williams Acosta PLLC | T&M: Provide Legal Representation to GLWA for Highland Park Collection Matters (\$220,000.00) | \$60,859 |
| GLWA-LS-296 | Barris Sott Denn & Driker | T&M: National Industrial Maintenance Ins. v City of Detroit Case No. 18004530-CK | \$60,684 |
| GLWA-CS-077 | Henry Ford Health System | CS-077: Occupational Health Services - CO#4 (\$120,000.00) - As Needed Services | \$60,312 |
| 1904681 | Re-Source Partners | IT Asset Disposal Services | \$59,050 |
| 1904820 | Isle Inc. | Innovation Consultant - Innovation services and technical facilitation | \$57,500 |
| 2001326 | Madison Electric Company | Wick Road Power Metering - Installation of Power Quality / Power Meter | |
| 1802911 | PCI LLC | UPS Maintenance Services See PO 13503 | \$56,959 |
| 2003089 | Vieux & Associates Inc. | Real-time System Optimization Project (Rain Gauges) | \$56,200 |
| 2000261 | Phoenix Environmental Inc | Phoenix Environmental Inc. PROPOSAL 23428. Inspection Services Continuation requisition for four mont | \$53,319 |
| GLWA-CS-262 | Sigma Associates Inc | Complete: General Engineering Services | \$52,241 |
| 1097 | Carmeuse Lime & Stone | High Calcium Lime T&M: GLWA-CS-200: Resident Project Representative and O & M Services | \$52,150 |
| GLWA-CS-200 | CDM Smith Michigan Inc | CIP 170100 (\$889,785.00) | \$51,434 |
| 1803876 2003340 | Info-Tech Research Group Inc Siemens Industry Inc | InfoTech Subscription THIS REQUISITION IS TO ADD \$ 1,878.00 TO THE FUNDS ON REQ. | \$50,640 |
| 2003340 | Valve Reconditioning Service | 2003340 Lake Huron to have Valve Reconditioning Services restore 2 valves | \$49,999 |
| | C C | | |
| 1901636 | Siemens Industry Inc | Robicon 40 & 60 HP 454GT Drive Upgrade | \$48,74 \$48,57 |
| 1900624 | Industrysafe Inc. | IndustrySafe Proposal | |
| 1901904 | GHD Services Inc. | Above Ground Storage Tank Inspection for CSO Facilities | \$45,800 |

| Contract Number | Vendor | Contract Description | Amount (Millions) |
|--------------------------|---|--|-------------------|
| 2000779 | Nearmap US Inc. | Nearmap Imagery Subscription | \$45,000 |
| 1803350 | Hupp Consulting LLC | Consulting Services- Initial term 3 years beginning May 1, 2019 | \$44,906 |
| 1803013 | Emerson Process Management | Optimization of Dissolved Oxygen (DO) Control Process - Offer # WAM17050096 Rev. 7 | \$44,426 |
| 2002799 | Marsh USA Inc. | Property Insurance Renewal Initiative | \$44,262 |
| 4000679 | Applied Science Inc | Complete: CS-4000679 Services for Water Plant Production Flow Measurement & Related Facility Imp. | \$44,077 |
| 2000569 | Digital Science Group LLC | Contract for scanning and digitizing documents, blue prints and Operation & Maintenance Manuals that | \$42,847 |
| GLWA-CS-056 | Cornerstone onDemand Inc. | Learning Management System with Statement of Work No. 3 | \$42,723 |
| 1904373 | Industrial Furnace Co Inc | Incinerator Fuel Train Systems Inspection and Safety Check | \$42,042 |
| 1904449 | Brown and Caldwell Constructors | Solicitation Request: Lake Huron Pilot Plant - Design Build Services (CIP 111011) | \$41,520 |
| GLWA-LS-1903589 | Littler Mendelson PC | Littler Mendelson, P.C. to assist GLWA in an Employment Matter | \$41,205 |
| 1903548 | Granicus LLC | Granicus Renewal | \$41,018 |
| 1067-1 | Kennedy Industries Inc | Service - Pumps & Grinders | \$40,870 |
| 1903808 | Calls Plus | Ethics and Compliance Hotline Services | \$40,288 |
| 1901592 | Magnolia River Services Inc. | GIS Strategic Support Services | \$40,280 |
| 1802474 | Wade Trim Associates Inc | Professional Engineering Services | \$40,172 |
| 2004100 | Sustema Inc. | Removal and Disposal of existing consoles and installation of new console S | \$39,485 |
| 2100149 | KnowBe4 Inc. | KnowBe4 (Security Mentor Replacement) | \$39,396 |
| 2001492 | Crane Technologies Group Inc | Crane repairs for the WWOG/ Req for Water 2002240 waiting approval | \$38,753 |
| 1903284 | Lakeshore Global Corporation | Springwells Pipe Replacement | \$38,606 |
| 1067 | Detroit Pump & Mfg Co | Pumps | \$38,223 |
| GLWA-CS-187 (form | FK Engineering Associates | T&M: Inspection, Condition Assessment & Engineering Evaluation of Raw Water Intakes (\$356,078.90) | \$37,870 |
| 2002102 | CDM Smith Michigan Inc | CDM Smith CAD Specialized Contract request | \$37,847 |
| 1803310 | Nemeth Law PC | Corey Thomas v. GLWA and Other Related Matters | \$37,810 |
| GLWA-LS-066 | Allen Brothers, PLLC | T&M: Legal Rep, Consultation & advice in connection with General Labor Matters | \$37,570 |
| 1903597 | HDR Michigan, Inc. | Supplemental staffing for WRRF | \$37,361 |
| 1903704 | Wade Trim Associates Inc | Interim Wet Weather Operation Plan Implementation Assistance | \$37,220 |
| GLWA-LS-2004507 | Miller Canfield Paddock & Stone PLC | Legal Representation - General Employment Matters | \$37,030 |
| 1901982 | Plante & Moran PLLC | Inventory Warehouse Consulting Services | \$36,895 |
| 2003625 | Smith's Waterproofing LLC | PURCHASE SMITH'S WATERPROOFING TO CAULK AND TUCKPOINT EXTERIOR PARAPET WALL OF EB -1 BUILDING | \$36,600 |
| 2000153 | Cisco Systems Inc | WebEx Support | \$36,360 |
| 1905107 | Wade Trim Associates Inc | EVALUATION OF MAXIMIZING CONVEYANCE CAPACITY AT B064 AND B063 | \$35,875 |
| LS-2001721 | Littler Mendelson PC | Deanne Williams vs Great Lakes Water Authority | \$35,690 |
| GLWA-CS-1732 | Tetra Tech of Michigan PC | Complete:Professional Engineering Srvcs for Misc. Mechancial Improvements @ LHWTP | \$35,597 |
| 2002180 | Siemens Industry Inc | Maintenance of VFD'S for the Dewatering Pumps at WRRF | \$34,306 |
| 1903099 | HESCO Group Inc | Sewer Flowmeter Installation and Maintenance and Alternative Flowmeter Installation | \$34,047 |
| 1900169 | Regents of the University of Mich. | Biological Phosphorus Removal Pilot | \$34,016 |
| 1900357 | Grainger | Warehouse - Cancelled | \$33,870 |
| 1900371 GLWA-LS-221 | Linkedin Corporation Attorney Eric V Smith PLC | Recruiting/Job Posting (3 Years) T&M: Legal Representation, Consultation & advice to GLWA related to | \$33,345 |
| | | Security Matters | |
| 2001308 GLWA-LS-031.1 | FastSigns Detroit Zausmer, P.C. | Vinyl Graphics Services for GLWA Fleet and Facilities Legal Representation, Consultation and Advice - Final Renewal Third | \$33,219 |
| 1903529 | SkyNorth Software | Electrical Feed; and EJCDC am Trusted Advisor | \$33,075 |
| 1802804 | OHM Advisors | Capital Improvement Plan Assistance | \$32,890 |
| 1802804 1802970 | Fausone Bohn LLP | General Mill Supply Co., v GLWA and City of Detroit, by and through its Water & Sewerage Department | \$32,890 |
| 2001523 | Engineering Systems Inc. | Specialized Engineering Analysis for Main Lift Motor #11 (WRRF) & | \$32,163 |
| 2100156 | Plante & Moran PLLC | Other Investigations As-Needed Vendor Viability Assessment | \$31,513 |
| 1803499 | GHD Services Inc. | Rehabilitation of Ash Handling Systems at WRRF | \$31,212 |
| 1903798 | Aero Filter Inc | Warehouse Inventory Items - Filters PO is now #17075 for WAM blanket | \$30,917 |
| 2000299 | SCI Floor Covering Inc. | Flooring replacement for all GLWA sites | \$30,256 |
| GLWA-LS-1905087 | Zausmer, P.C. | Re: Patton Park Easements with Detroit and Dearborn | \$30,220 |
| | The Foster Group LLC | GLWA Portion | \$30,000 |
| 1903902 | RMF Nooter Inc | INCINERATOR SEAL REPLACEMENT FOR #7 & #8 | \$29,800 |
| 1905080 | TWN Consulting LLC | Facilitation and Project Management Services Contract | \$29,551 |
| | | Tech Connect | \$29,236 |

| Contract Number | Vendor | Contract Description | Amount (Millions) |
|-----------------|---|---|----------------------------------|
| GLWA-CS-018 | BS&A Software | Utility Billing and Cash Receipt Software | \$28,566 |
| 1904716 | Project Innovations Inc | Continuation of facilitation of project work teams as requested to support Member Oureach | \$27,830 |
| 1802858 | Collins Einhorn Farrell PC | Legal Representation | \$27,653 |
| 1803884 | Johnson Controls Fire Protection LP | Service - Remove and Replace Fire Panel | \$27,053 |
| | | | |
| 1902433 | Michigan CAT | Standby Generator Preventative Maintenance and Repair Services | \$26,587 |
| 2002947 | Albert Kahn Associates Inc. | 200251 Engineering System Services | \$26,310 |
| GLWA-CS-292 | METCO Services Inc | Replacement/Rehabilitation of Ferric Chloride System at Pump Station No. 2 | \$26,205 |
| GLWA-CS-141 | FMLASource Incorporated | Family and Medical Leave Act Administration and Information Services | \$26,079 |
| 1903695 | Rosemount Analytical Inc | EVALUATION, REPAIR AND COST FOR PGA PROCESS ANALYZERS | \$25,868 |
| 1802314 | Arcadis of Michigan LLC | Consulting engineering services for HVAC improvements at the Leib CSO Facility. | \$25,532 |
| 1904725 | Process Improvement Institute Inc. | PHA of Cl2 and SO2 and MOC Training am | \$24,260 |
| 1804054 | ONYX Engineering Ltd. | St. Aubin CSO Facility Outfall CP-2 (Control Panel 2) Replacement and Relocation | \$24,000 |
| GLWA-SCP-CS-038 | AECOM Great Lakes, Inc | Complete: GLWA-SCP-CS-038:Professional Eng. Srvcs. for SPWTP Reservoir Fill Line Imp. CIP 1256 | \$24,000 |
| GLWA-CON-270 | Weiss Construction Co LLC | Isolation Gate Valves for Line Pumps at the West Service Center Pumping | \$23,515 |
| | | Station | |
| 2905948 | Polydyne Inc | Polydyne Inc filter polymer - Merge with 3289 (renewal two of three) | \$23,460 |
| GLWA-LS-211 | Dykema Gossett PLLC | General Environmental Matters and related Litigation | \$23,451 |
| 1133 | Capturis | Capturis: Utility Billing Management Services - Contract #SCO-1133 | \$23,264 |
| 1800646 | County Fire Protection Inc | Fire systems maintenance & inspection Services (06/15/18-06/14/20) all locations | \$22,600 |
| 1903833 | Systems Specialties | Rotork Pakscan Troubleshooting / Addressing / Report | \$22,200 |
| 1803604 | ESRI Inc. | ESRI Software Maintenance Renewal - Quotations #25869728 & 25924728 | \$21,593 |
| GLWA-LS-2100779 | Plunkett Cooney PC | Re: Highland Park Appeal | \$21,520 |
| GLWA-LS-2100757 | Butzel Long PC | Negotiation of the I-94 Storm Water Discharge Agreement | \$21,338 |
| 1803809 | Hubbell, Roth & Clark, Inc. | Lieb & Puritan Fenkell: Engineering Services for Existing Site Drainage Issues | \$21,165 |
| 2000014 | Quinn Evans | Assessment, Recommendations, and Development to Repair Damage to Hurlbut Memorial Gate | \$21,000 |
| 2100896 | Unconventional Services Inc | Repair and protective paint services with Uncoventional Services for | \$20,950 |
| GLWA-LS-050 | Dykema Gossett PLLC | Odor Control Fa T&M: Legal Representation to GLWA with National Pollutant Discharge | \$20,626 |
| 1904710 | Wayne State University | Elimination System (\$625,000.00) The Occurrence and Fate of Microplastics in Wastewater and Drinking | \$20,599 |
| | | Water Treatment Systems | |
| 2001654 | Wade Trim Associates Inc | Service: Seawall Inspection and Structural Engineer Report | \$20,500 |
| 2002796 | ConvergeOne Inc | AVST/ConvergeOne Voicemail Maintenance | \$20,316 |
| 1901566 | Incinerator Rx Corporation | GLWA Incinerator MACT MMM Emission Testing Assistance | \$20,085 |
| 1801844 | Kaleidico LLC | Kaleidico - Website Redesign and Maintenance | \$20,000 |
| 2004471 | Public Sector Consultants | Public Sector Consultants | \$19,920 |
| 1900526 | Wade Trim Associates Inc | Instrumentation Improvements - Engineering Services during Construction | \$19,503 |
| 1902860 | Pluralsight | IT Training (Pluralsight) - Sales Order No. Q-275297 | \$19,475 |
| GLWA-LS-1900420 | Starr Butler, PLLC | Nicole Massey v Great Lakes Water Authority (GLWA) | \$19,331 |
| 2002823 | Digital Science Group LLC | WRRF- CSO Digital Records Conversion | \$19,032 |
| 1904960 | PVS Nolwood Chemical Inc | Sodium Hydroxide | \$18,502 |
| 2100339 | Motor City Electric Co | Motor city electric to provide emergency assitance with repair/repalcement work with switchgear/cable | \$18,449 |
| 1903753 | Modern Water Inc. | Repair of deltatox analyzer, reagents and supplies to run Delta tox analyses for one year at Springwe | \$18,358 |
| 2000322 | Rose Moving & Storage Co. Inc. | Furniture and Equipment Moving Services | \$18,070 |
| 2000343 | Eagle Industrial Contracting Inc | Incinerator Damper Door - Maintenance & Repair | \$17,926 |
| 2913918 | Detroit Salt Company LLC | Salt Rock | \$17,563 |
| 2001636 | Weingartz Supply Co., Inc. | Blanket PO for for purchase of parts and repairs as needed on GLWA Fleet equipment for 1 year 05/01/2 | \$17,056 |
| | Wade Trim Associates Inc | Pump Station Two Grit Channel /Nautical Drone Pilot Study Jason Williams, Engineer, 313.297.0230 | \$16,425 |
| 2003786 | | | \$46 000 |
| 2003786 1802659 | Jackson Lewis P.C. | Attorney shall provide legal representation, consultation and advice | \$16,208 |
| 1802659 | - | | |
| | Jackson Lewis P.C. BigTime Software Inc. Gallup Inc | Attorney shall provide legal representation, consultation and advice BigTime Renewal Access Employee Engagement Platform Subscription for Three Years | \$16,208 \$15,840 \$15,750 |

| Contract Number Vendor | | Contract Description | Amount (Millions | |
|------------------------|------------------------------------|---|--------------------|--|
| 2002492 | United Rentals North America Inc | Blanket PO for equipment rentals as needed by GLWA Fleet for one (1) year 7/1/2020 - 6/30/2021 | \$15,218 | |
| 1905037 | PCI LLC | PLC STSTEM UPGRADE | \$15,190 | |
| 2001396 | Santoro Incorporated | Blanket contract for light, medium, and heavy duty truck parts and repair | \$15,183 | |
| 2000309 | Isle Inc. | Artificial Intelligence for Treatment, Network Optimization Technology Scan and Water Quality Sensors | \$15,000 | |
| 1802860 | Plunkett Cooney PC | Legal Representation | \$14,814 | |
| 2001941 | Systems Specialties | Conner Creek Rotork Replacement For SCG - 9 & Puritan Fenkell CSO Trouble Shooting | \$14,794 | |
| 2002240 | Crane Technologies Group Inc | CRANE INSPECTION AND REPAIRS (WATER) | \$14,037 | |
| 1900227 | MSC Industrial Supply Company | Warehouse Inventory Items - Electrical (PO is now #17089 for WAM blanket) | \$13,700 | |
| 1802878 | Hubbell, Roth & Clark, Inc. | Completee: Seven Mile Road Combined Sewer Overflow Basin Renovations | \$13,692 | |
| GLWA-LS-2004292 | Zausmer, P.C. | Daniels Karim - Claim of Appeal | \$13,343 | |
| GLWA-CS-217 | Michigan State University | T& M: CS-217 Energy Recovery Assessment (\$355,800.00) | \$12,991 | |
| 1905014 | Linkedin Corporation | LinkedIn Learning Subscription | \$12,500 | |
| 2000758 | Havener Tech | Oakwood CSO : Furnish and Install Geotechnical Polymer/ Water stoppage # 20004 | \$12,000 | |
| 1803542 | Pace Analytical | Regulatory Analyses | \$11,920 | |
| | Power Plus Engineering Inc | 1031 Battery Maintenance & Testing | \$11,800 | |
| 2000527 | Preferred Contracting Group | Troubleshoot North Hydraulic skid at PS-1 | \$11,500 | |
| 1901453 | RJ Stacey LTD | Scheduled and Emergency Repair of Various items at WRRF | \$11,250 | |
| 1901525 | Advance Instrumentation Systems | Service, Supplemental Instrumentation Staff | \$10,800 | |
| 2004712 | Bridgeport Consulting LLC | Bridgeport Consultants Services to assist finance procurment in various area. For two years | \$10,638 | |
| GLWA-CS-277 | Pure Technologies US Inc | Complete: Fourteen Mile Road PCCP Water Mian Condition Assessment and Pilot Study Evaluation | \$10,500 | |
| 2000509 | Cryogenic Pipe Freezing Solutions | Service - Freezing and replacement of broken valves | \$10,407 | |
| 2000068 | Waste Management Of Michigan Inc | Landfill Service For Lime Stabilized Dewatered Sludge | \$10,393 | |
| SCO-1023 | ImageSoft Inc | ImageSoft: Amendment No. 1 (SOW #s 1 - 9): Various Subscriptions ESRI/WAM/Web Server Integration | \$10,296 | |
| 2004700 | Project Innovations Inc | Executive and Managerial Training for Water Operations | \$10,235 | |
| 2003899 | International Controls & Equipment | PURCHASE SERVICE AND PARTS TO INSTALL CONTROL BOXES TO ENRTY / EXIT - COPLAND GATE | \$10,175 | |
| 1901968 | Action Mat & Towel Rental | Mat rental services at WRRF for 2 years from $10/1/2019 - 09/30/2021$ with two - 1 yr renewal optons | \$10,067 | |
| 1901155 | Environmental Consulting | Drinking Water Monitoring Network Equipment Maintenance & Data Management Services | \$10,000 | |
| 1904707 | Wade Trim Associates Inc | Design and Construction Engineering Services - Oakwood CSO | \$9,902 | |
| GLWA-LS-297 | Dykema Gossett PLLC | Legal Representation, Consultation & Advise of Boler vs State of Michigan | \$9,744 | |
| GLWA-SCP-CS-1721 | CDM Michigan, Inc | Complete: GLWA-SCP-CS-1721: Consulting Eng. Srvcs @ Leib Screening & Disinfection Facility | \$9,563 | |
| 1903126 | Digital Science Group LLC | New contract to digitally scan documents pertaining to the Springwells plant that are currently store | \$9,520 | |
| 1903684 | Hazen and Sawyer | Grit Removal Optimization - Grit Sampling and Characterization Study | \$9,443 | |
| | | Environmental Health and Safety Compliance Service Replacement | | |
| 2002946 | NTH Consultants Ltd | contract for CS-213 | \$9,281 | |
| GLWA-LS-2003057 | Fausone Bohn LLP | Water and sewer services to the City of Dearborn Surveying Services for the property located at 5181 East Outer Drive in | \$9,102 | |
| 2003659 | PEA Group | the City of Detroit, County o | \$8,810 | |
| 1903303 | Wade Trim Associates Inc | Upper Main Rouge River Outfalls Survey Summary | \$8,739 | |
| GLWA-LS-1903626 | Starr Butler, PLLC | Provide legal representation to GLWA for General Employment Matters | \$8,706 | |
| 2100477 1153 | ASTI Environmental Cintas | Environmental Assessment at 5181 E. Outer Dr., Detroit, MI Service - Uniforms | \$8,480 \$8,467 | |
| 1133 | Siemens Industry Inc | Blanket for Siemens - repair/maint. Lake Huron VFD drives - | \$8,328 | |
| cs-1771 | Tetra Tech of Michigan PC | Complete: Condition Assessment, Design of Filter and Flow | \$7,920 | |
| 2000388 | The Allen Law Group PC | Instrumentation General Employment/ Labor Matters | \$7,890 | |
| 1700774 | Plante & Moran PLLC | Professional Services | \$7,848 | |
| 1903542 | Commerce Controls Inc | Provde supplemental programming staff to configure PLC and SCADA s | \$7,825 | |
| LS-1905017 | Plunkett Cooney PC | General Organizational Development Matters | \$7,591 | |
| GLWA-LS-294 | Dickinson Wright PLLC | T&M: Legal Representation, Consultation and Advice in connection with ERISA issues | \$7,510 | |
| GLWA-LS-100 | Zausmer August & Caldwell PC | T&M: Legal Rep. with vendor performance issues in Construction -CS- 1443,CS-1305,CS-1499 (\$200,000.00 | \$7,398 | |
| | Amazon Web Services Inc | CS-1903456: 06/2020: Web Services | \$7,355 | |

| Contract Number | ct Number Vendor Contract Description | | Amount (Millions |
|-------------------|---------------------------------------|---|------------------|
| GLWA-LS-139 | Williams Acosta PLLC | T&M:Highland Park v USEPA United States District Court Case No. 2: 16- cv-13840-SJM-DRG (\$300,000.00) | \$7,30 |
| GLWA-CS-116 | Hubbell, Roth & Clark, Inc. | Complete: CS-116: Conner Creek RTB Emergency Work CIP 1384 (\$ 310,029.80) | \$7,29 |
| 1900107 | Kopka Pinkus & Dolin PC | General Mill Supply Cov. Great Lakes Water Authority and City of Detroit | \$7,29 |
| 1903258 | Aston Carter Inc. | NTE Contract for placement fees and recruiting service for Aston Carter & Aerotek, Inc. | \$7,17 |
| GLWA-LS-202 | Williams Acosta PLLC | T&M: Property Matters including Sales, Easements, Encroachments, Condemnations & Purchase of Property | \$7,11 |
| GLWA-LS-2000330 | Summerville Law Firm PLLC | In re: 5851 W. Jefferson Avenue, Detroit, MI | \$6,94 |
| 1904955 | Alpha Psychological Services PC | Psychological Assessment & Evaluation | \$6,73 |
| 1140 | Cintas | Service - Uniforms | \$6,48 |
| GLWA-LS-044 | Allen Brothers, PLLC | T&M: Legal Rep, consultation & advice regarding the City of Flint Health Concerns | \$6,30 |
| GLWA-SCP-CS-062 | Hubbell, Roth & Clark, Inc. | Complete: CS-062: Line Pump Discharge Design Service | \$6,30 |
| 2002275 | Wolverine Power Systems | Blanket PO for generator repairs and maintenance at CSF for three (3) years | \$6,05 |
| | Treadwell & Associates Inc | Professional Services Contract | \$6,00 |
| 4000700 | Dunbar Mechanical, Inc. | 04/30/2020: Cooling Unit Peristered Licensed Surveyor | \$5,78 |
| 1901621 | Hennessey Engineers Inc. | Registered Licensed Surveryor Excavation required to determine what large object is underground and | \$5,70 |
| 1904795 | Kokosing Industrial Inc. | in the path of installation of | \$5,48 |
| 1903976 | Systems Specialties | 7 Mile CSO : Rotork Factory Startup | \$5,28 |
| GLWA-CS-163 | Plante & Moran PLLC | Project Management Services | \$5,25 |
| 1904037 | Echologics LLC | PCCP Transmission Main Non-Destructive Testing | \$4,99 |
| 1900230 | Black Anvil Construction Supplies | Warehouse Inventory Items - Hardware (PO is now #17082 for WAM blanket) | \$4,89 |
| 1902110 | Rehmann Robson | Technical Consulting Services | \$4,80 |
| 1900251 | Binkelman Corporation | Warehouse Inventory Items - Mechanical (PO is now #17101 for WAM blanket) | \$4,76 |
| 3082 | Polydyne Inc | Polymer | \$4,69 |
| 1036 DETROIT LEGA | | Detroit Legal News | \$4,65 |
| 2001596 | Sunbelt Rentals, Inc. | Blanket PO for on demand equipment rentals 05/01/2020 - 04/30/2022 MiDeal | \$4,51 |
| 2002514 | Re-Source Partners | IT ASSET DISPOSAL SERVICES MiDeal | \$4,50 |
| 2002722 | Siemens Industry Inc | Siemens Quotation Number: Q2075268-R1 for 3 year TSA (27,000.00/YR) SPV | \$4,50 |
| 1901083 | Sellinger Associates Inc | Design services for HVAC Controls project for Lab relocation | \$4,20 |
| LA-2001482 | Hantz Farms LLC | This Lease is entered into on May 1, 2020, between the Hantz Farm, LLC, located at 26200 American Dr, | \$4,00 |
| 2001606 | Paragon Laboratories Inc | Sampling | \$3,98 |
| 2002349 | Michigan CAT | MI Cat - Blanket PO for construction equipment parts and maintenance services for two (2) years | \$3,98 |
| 1802235 | Heritage Vision Plans | Safety Glasses | \$3,91 |
| 1904095 | Action Impact - Eastpointe | Firearm Certification Training | \$3,86 |
| GLWA-LS-175 | Steven H Schwartz & Associates PLC | | \$3,61 |
| GLWA-LS-203 | Kitch Drutchas Wagner Valitutti | T&M: Basement Flooding Legislation, Risk Management and Regulatory Matters (\$120,000.00) | \$3,24 |
| 2000536 | Edward Malindzak | Consulting Services for Compensation Analysis | \$3,22 |
| 1802312 | Evoqua Water Technologies LLC | PM Services for 4 DI Units twice per year | \$3,18 |
| 2003851 | Bert's Testing & Training Services | Provide training to GLWA team member for CDL class A and B licenses. Over next 3 years with a 1 year | \$3,00 |
| 1902309 | Digital Science Group LLC | Digital Scans of Sorted Contract Books, CS Reports, Photos and Shop Drawings Filed in WRRF Document C | \$3,00 |
| GLWA-CS-233 | LexisNexis | T&M: Lexisnexis Subscription Agreement (\$20,000.00) | \$2,95 |
| 1803422 | Iron Mountain | Iron Mountain Storage for FR&A and Treasury Documents 5 Year Contract | \$2,75 |
| GLWA-LS-2004810 | O'Reilly Rancilio P.C. | Stoney Creek Villas Apartments - Pond Maintenance | |
| GLWA-LS-043 | Ossian Law PC | T&M: Legal Representation to GLWA for Information Techology Contracts (\$750,000.00) | \$2,72 |
| 2001970 | L.I.J.B.S. Enterprises, LLC | Blanket PO for towing services for all GLWA vehicles | \$2,70 |
| 2000876 | ShredCorp. | ShredCorp Services Description for REQ 2000876 Shredding Services On- site shredding services to shred | \$2,60 |
| 1902806 | Process Control Services Inc | Trained Field Services Engineer for Actuator Services | \$2,59 |
| | | T&M:Legal Rep. Consultation & Advice to GLWA with Municipal Matters | |
| GLWA-LS-131 | Neville-Ewell PLLC | etc. (\$225,000.00) Warehouse Inventory Items - Industrial Lubricants (PO is now #17086 | \$2,10 |
| 1900250 | MSC Industrial Supply Company | for WAM blanket) Provide Assistance to GLWA for Background Screening Services (\$ | \$2,07 |
| CS-115 | HireRight, LLC | 35,000.00) | \$2,06 |

| Contract Number | Vendor | Contract Description | Amount (Millions) |
|-----------------|---------------------------------|--|-------------------|
| GLWA-CS-115 | HireRight, LLC | Provide Assistance to GLWA for Background Screening Services (\$ 35,000.00) | \$2,062 |
| 2001645 | Plante & Moran PLLC | Compensation Strategy & Communication for Organizational Development | \$1,881 |
| 1803675 | Arcadis of Michigan LLC | Complete: Baby Creek: Engineering Services for HVAC Improvements | \$1,871 |
| GLWA-LS-2100663 | Clark Hill | Employment/Labor Matter | \$1,776 |
| GLWA-CS-501 | Jones Lang Lasalle Michigan LLC | Real Estate Brokerage Services | \$1,700 |
| 2864398 | RS Technical Services Inc | Various Parts: valves, diaphragms, o-rings, kits, etc. | \$1,607 |
| 2001969 | Troy's Towing Inc. | Blanket PO for towing services for all GLWA vehicles | \$1,595 |
| GLWA-CS-298 | PES Group Inc | Emergency Overhead Installation of 120 kV ovehead lines to the 3rd incoming Transformer C | \$1,440 |
| 1903931 | Discovery Solutions Inc | Faxcore Support | \$1,269 |
| 1904515 | Towlift Inc | Preventative Maintenance - TRACKMOBILE FOR CHLOR/DECHLOR | \$1,250 |
| GLWA-CS-291 | Alfred Benesch & Associates | Complete: General Engineering Services | \$1,057 |
| 1903449 | Alfred Benesch & Associates | Relocation of Existing Fire Suppression System (design) | \$1,029 |
| 2004002 | DLT Solutions LLC | BIM 360 Docs Assistance and Support | \$899 |
| 2002059 | Tredroc Tire Services, LLC | Tredroc Blanket PO for purchase of tires as needed by GLWA Fleet for 1 year 06/01/2020 - 05/31/2021 | \$835 |
| 2897583 | VWR International | JIT Chemicals/Lab Supplies MiDeal | \$789 |
| 1804095 | Hazen and Sawyer | Expert Opinion Services for Value Engineering of Large Scale Sanitary and Storm Water Facilities | \$720 |
| RFB 1122 | Merit Laboratories Inc | Reagent Water Testing for Bacteriological Suitability and Metals | \$670 |
| 2002363 | Xerox Corporation | Print Shop Upgrade 36 months Omnia Co-Op | \$534 |
| 2003099 | Macomb Mechanical Inc | Macomb Mechanical Renewals on CSF, WBB, and WRRF HVAC systems | \$529 |
| 1903797 | MSC Industrial Supply Company | Warehouse Inventory Items - Belts (PO is now #17068 for WAM blanket) | \$495 |
| 2101055 | Logan Glass Company | One year Blanket PO beginning April 1, 2021, window glass, glass, accessories and tools. | \$463 |
| 6898 | GDI Services Inc | Blanket PO for janitorial services at GLWA facilities for one (1) year 04/06/2019 - 04/05/2020 am | \$360 |
| 2861580 | TestAmerica Laboratories Inc | Payment | \$350 |
| GLWA-LS-188 | Williams Acosta PLLC | T&M: Legal Rep. to GLWA for Abraham Greer v City of Detroit Case No. 16- 012832-CZ (\$300,000.00) | \$222 |
| 1900355 | Grainger | Warehouse **Cancelled** | \$192 |
| 1904458 | Clark Hill | Make-up Benefits for a One Year Period - November 8, 2019 - November 8, 2020 | \$150 |
| 1804145 | Schreiber Corporation | 7 Mile CSO: Faciliy Roof Repair/Preventative Maintenance | \$0 |
| GLWA-CON-208 | Detroit Contracting Inc | WWP WTP Chlorine Disinfection System Replacement and Improvements | -\$31,522 |
| Grand Total | | | \$321,802,820 |

| Top Ten Vendors Invoiced | Invoice Count | Purchase Order Count | Total Amount (Millions) |
|-------------------------------------|---------------|----------------------|-------------------------|
| DTE Energy | 4347 | 1 | \$42,191,257.6 |
| Lakeshore Global Corporation | 140 | 15 | \$33,489,508.2 |
| Weiss Construction Co LLC | 145 | 14 | \$27,768,272.5 |
| Inland Waters Pollution Control Inc | 15 | 2 | \$15,905,946.9 |
| Jay Dee Contractors Inc. | 20 | 2 | \$14,804,905.1 |
| AECOM Great Lakes, Inc | 25 | 3 | \$13,889,012.6 |
| New England Fertilizer Company | 12 | 2 | \$13,018,152.4 |
| AT&T | 59 | 3 | \$12,817,343.4 |
| Walsh Construction Company | 25 | 2 | \$12,411,855.0 |
| Kokosing Industrial Inc. | 43 | 4 | \$12,386,832.7 |
| Ric-Man Construction Inc | 39 | 4 | \$11,847,680.8 |
| Ballard Marine Construction LLC | 20 | 2 | \$10,967,907.9 |
| Commercial Contracting Corporation | 68 | 6 | \$10,488,223.9 |
| Jacobs Consultants, Inc. | 23 | 2 | \$9,896,343.2 |
| Pullman SST, Inc. | 35 | 4 | \$9,291,002.8 |
| Clark Construction Company | 18 | 2 | \$7,505,938.1 |
| Rotor Electric Co | 25 | 4 | \$6,031,233.5 |
| Brown and Caldwell LLC | 68 | 6 | \$5,721,464.2 |
| State of Michigan - Natural Gas | 16 | 1 | \$5,551,291.0 |
| Salenbien Trucking & Excavating Inc | 15 | 2 | \$4,786,652.2 |
| Arcadis of Michigan LLC | 52 | 6 | \$4,655,005.9 |
| Board of Water Commissioners | 70 | 1 | \$4,489,156.5 |
| Mobile Dredging & Video Pipe Inc | 5 | 1 | \$4,441,180.2 |
| Barton Malow Company | 29 | 3 | \$4,391,977.2 |
| Marra Services Inc | 20 | 3 | \$3,587,509.0 |
| Enterprise Fleet Management | 11 | 1 | \$3,485,650.4 |
| CDM Smith Michigan Inc | 29 | 6 | \$3,384,046.1 |
| PCI LLC | 53 | 9 | \$3,221,247.0 |
| Wade Trim Associates Inc | 94 | 11 | \$3,197,397.1 |
| Major Cement Company | 7 | 2 | \$2,975,680.4 |
| Chemtrade Chemicals US LLC | 465 | 5 | \$2,866,334.1 |
| PVS Nolwood Chemical Inc | 409 | 15 | \$2,698,226.3 |
| Tooles Contracting Group LLC | 9 | 3 | \$2,533,571.3 |
| Linde Inc. | 63 | 4 | \$2,258,216.3 |
| DXC Technology Services LLC | 13 | 1 | \$2,114,936.0 |
| Hazen and Sawyer | 43 | 6 | \$2,113,347.6 |
| Kemira Water Solutions | 394 | 1 | \$1,908,966.0 |
| Emerson Process Management | 13 | 5 | \$1,647,109.7 |
| PMA Consultants LLC | 12 | 1 | \$1,620,006.2 |
| Dunbar Mechanical, Inc. | 36 | 8 | \$1,614,099.5 |
| GDI Services Inc | 193 | 6 | \$1,587,302.6 |
| Detroit Water and Sewerage | 25 | 3 | \$1,524,000.0 |
| CH2M Hill Engineers Inc | 22 | 2 | \$1,469,107.1 |
| OHM and WSP, A Joint Venture | 12 | 1 | \$1,408,097.6 |
| Premier Group Associates LC | 259 | 14 | \$1,367,219.4 |
| Polydyne Inc | 157 | 8 | \$1,192,761.4 |
| Motor City Electric Co | 36 | 6 | \$1,146,386.4 |
| Water Research Foundation | 11 | 11 | \$1,145,036.0 |
| Jack Doheny Companies Inc | 8 | 6 | \$1,141,536.6 |
| Dell Computer Corporation | 19 | 10 | \$1,086,927.1 |
| Schreiber Corporation | 22 | 16 | \$1,047,946.4 |
| JCI Jones Chemicals Inc | 145 | 9 | \$971,832.8 |
| Grainger | 1074 | 640 | \$959,820.5 |
| FK Engineering Associates | 25 | 2 | \$939,568.9 |
| Applied Science Inc | 10 | 2 | \$938,872.8 |
| Flowserve US Inc | 2 | 1 | \$930,072.0 |
| Marsh USA Inc. | 11 | 3 | \$901,321.5 |
| | 11 | 3 | φ701,341.3 |
| Hydromax USA LLC | 8 | 1 | \$887,982.7 |

| J F Cavanaugh Company | 34 | 3 | \$858,646.3 |
|-------------------------------------|-----|-----|-------------|
| Somat Engineering Inc | 14 | 1 | \$848,794.5 |
| LaSalle Construction Services | 28 | 3 | \$832,907.4 |
| LimnoTech | 3 | 1 | \$832,329.3 |
| Waste Management Of Michigan Inc | 426 | 16 | \$816,428.0 |
| HESCO Group Inc. | 21 | 14 | \$799,997.5 |
| CDW Computer Centers Inc | 106 | 50 | \$759,939.9 |
| Dan's Excavating Inc. | 4 | 1 | \$714,931.9 |
| Experis US Inc | 144 | 11 | \$629,104.7 |
| Mcnaughton Mckay Electric Company | 173 | 120 | \$597,713.0 |
| Praxair Inc | 16 | 4 | \$590,106.4 |
| Atlas Bleachers | 8 | 1 | \$569,960.0 |
| Plante & Moran PLLC | 40 | 9 | \$567,760.0 |
| Bridgeport Consulting LLC | 13 | 2 | \$566,676.4 |
| Verizon | 5 | 1 | \$555,684.0 |
| Preventive Maintenance Technologies | 228 | 2 | \$545,509.3 |
| CDM Michigan, Inc | 12 | 2 | \$543,473.6 |
| CCH Tagetik | 22 | 2 | \$538,737.8 |
| Truck & Trailer Specialties Inc. | 55 | 1 | \$529,393.7 |
| Systems Specialties | 50 | 29 | \$521,604.2 |
| HDR Michigan, Inc. | 26 | 3 | \$520,393.7 |
| Hach Company | 167 | 54 | \$520,069.4 |
| Hart EMS Medical Services PLLC | 50 | 2 | \$510,025.0 |
| Thyssenkrupp Elevator Corp | 29 | 12 | \$503,778.8 |
| Conti Corporation | 45 | 4 | \$503,442.5 |
| The Foster Group LLC | 19 | 5 | \$490,000.0 |
| Epitec Inc | 149 | 4 | \$485,014.3 |
| Regents of the University of Mich. | 30 | 3 | \$468,812.8 |
| Aquasight LLC | 7 | 2 | \$464,467.0 |
| RS Technical Services Inc | 71 | 63 | \$463,221.1 |
| Dykema Gossett PLLC | 70 | 5 | \$435,937.1 |
| City of Livonia | 1 | 1 | \$433,954.9 |
| Access Interactive | 4 | 1 | \$429,052.0 |
| Ceridian HCM Inc | 24 | 1 | \$428,301.1 |
| The Osborn Engineering Company | 7 | 1 | \$408,764.0 |
| PVS Technologies Inc | 10 | 1 | \$401,074.1 |
| PTS Contracting | 12 | 2 | \$400,154.2 |
| Waterfront Petroleum Terminal Co. | 104 | 2 | \$395,316.8 |
| NTH Consultants Ltd | 22 | 2 | \$378,903.6 |
| Black & Veatch Ltd Of Michigan | 9 | 3 | \$378,754.0 |
| GALCO Industrial Electronics | 83 | 64 | \$376,707.4 |
| Kennedy Industries Inc | 25 | 14 | \$356,287.1 |
| Siemens Industry Inc | 31 | 22 | \$355,536.2 |
| Carlette Construction & Consulting | 5 | 2 | \$354,969.2 |
| Storage Operations LLC | 2 | 1 | \$346,278.0 |
| Colasanti Construction Services | 2 | 2 | \$334,882.3 |
| Motor City Pipe & Supply Co | 251 | 214 | \$327,930.2 |
| IGM Valve Corporation | 49 | 43 | \$323,219.0 |
| HESCO Group Inc | 9 | 9 | \$323,177.3 |
| Data Consulting Group Inc | 14 | 2 | \$322,400.0 |
| Custom Ecology of Ohio Inc | 83 | 3 | \$321,791.3 |
| W C Ducomb Company | 26 | 26 | \$312,293.0 |
| METCO Services Inc | 21 | 3 | \$311,474.9 |
| Oakland County WRC | 1 | 1 | \$300,000.0 |
| PFM Asset Management LLC | 13 | 2 | \$293,947.2 |
| Zausmer, P.C. | 44 | 5 | \$282,121.3 |
| America's Green Line | 1 | 1 | \$270,850.0 |
| DMC Consultants, Inc. | 14 | 2 | \$269,368.0 |
| Detroit Pump & Mfg Co | 38 | 31 | \$269,051.1 |
| VWR International | 880 | 29 | \$268,160.2 |
| Broadspire Services Inc | 37 | 1 | \$249,903.3 |
| Idexx Laboratories | 64 | 22 | \$243,653.6 |

| Enterprise Holding Inc. | 61 | 2 | \$241,336.4 |
|-------------------------------------|-----|---------|--------------------------|
| Linko Technology Inc | 3 | 1 | \$240,435.0 |
| Fleishman Hilliard Inc | 12 | 2 | \$233,754.4 |
| New Technology Development | 6 | 1 | \$229,774. |
| State of Michigan | 8 | 2 | \$219,786.9 |
| Phoenix Environmental Inc | 19 | 6 | \$219,220. |
| Alfa Laval Inc | 11 | 10 | \$210,295. |
| Frimble Inc | 19 | 8 | \$208,318. |
| FM Sylvan, Inc. | 2 | 2 | \$206,275. |
| Interstate Trucksource Inc | 2 | 2 | \$206,155. |
| Rickman Enterprise Group LLC | 12 | 1 | \$202,254. |
| Structural Preservation Systems | 2 | 1 | \$200,760. |
| WSP Michigan Inc. | 12 | 1 | \$200,429. |
| Avante Solutions, Inc. | 9 | 1 | \$200,098. |
| Professional Service Industries Inc | 6 | 1 | \$198,338. |
| Johnson Controls Fire Protection LP | 31 | 5 | \$195,990.4 |
| Baker Tilly Virchow Krause, LLP | 6 | 1 | \$189,596. |
| SE Michigan Council of Governments | 3 | 3 | \$187,168. |
| Johnson Controls Inc. | 91 | 7 | \$187,127. |
| Michigan State University | 14 | 3 | \$183,047. |
| American Gear & Engineering, Inc | 9 | 3 | \$181,845. |
| Cintas | 723 | 38 | \$181,493. |
| Eastern Oil Company | 36 | 8 | \$175,685. |
| HORIZON Lab Systems | 8 | 2 | \$173,136. |
| Spence Brothers | 4 | 2 | \$171,608. |
| Allingham Corporation | 39 | 13 | \$167,014. |
| Sigma Associates Inc | 25 | 3 | \$165,927. |
| Madison Electric Company | 37 | 32 | \$164,702. |
| Walsh College of Accountancy & B.A. | 1 | 1 | \$160,000. |
| Experis Finance US LLC | 17 | 3 | \$155,807. |
| Premier Safety | 63 | 39 | \$150,432. |
| Capp USA | 33 | 27 | \$150,128. |
| Veolia Water Technologies Canada | 2 | 2 | \$150,025. |
| Metro Welding Supply Corporation | 224 | 51 | \$149,093. |
| Heco Industrial Service Group, Inc. | 1 | 1 | \$148,241. |
| Clayton Industries | 12 | 5 | \$148,053. |
| Alfred Benesch & Associates | 13 | 3 | \$147,292. |
| Crane Technologies Group Inc | 56 | 18 | \$146,628. |
| MSC Industrial Supply Company | 218 | 114 | \$145,255. |
| Agilent Technologies Inc | 4 | 3 | \$145,224. |
| Hubbell, Roth & Clark, Inc. | 13 | 5 | \$141,158. |
| SEMCO Energy | 12 | 1 | \$138,797. |
| Rose Pest Solutions | 45 | 3 | \$137,592. |
| Actuator Specialties | 13 | 13 | \$137,329. |
| KamarOE | 575 | 30 | \$137,268. |
| D/A Central Inc | 98 | 2 | \$135,480. |
| Lubrication Engineers Inc. | 21 | 7 | \$131,747. |
| Public Sector Consultants | 14 | 2 | \$129,892. |
| Great Lakes Pump & Supply Co | 1 | 1 | \$129,712. |
| United States Geological Survey | 1 | 1 | \$128,500. |
| W.S.I. Industrial Services, Inc. | 24 | 1 | \$126,822. |
| City of Dearborn | 26 | 1 | \$126,716. |
| MK Engineering, Inc | 19 | 1 | \$125,312. |
| Fetra Tech of Michigan PC | 16 | 3 | \$123,864. |
| ett Pump & Valve LLC | 5 | 5 | \$122,572. |
| Aerotek Inc. | 74 | 2 | \$121,018. |
| interior Environments LLC | 20 | 11 | \$120,466. |
| The Creative Group | 51 | 1 | \$119,478. |
| Future Fence Company | 30 | 1 | \$117,611. |
| CDM Constructors Inc | 1 | 1 | \$117,508. |
| Unifirst Corporation | 411 | 1 23 | \$117,094. \$117,039. |

| Bonfire Interactive Ltd | 1 | 1 | \$117,000.0 |
|-------------------------------------|-----|----|------------------------|
| Steinhardt Pesick & Cohen, P.C | 1 | 1 | \$114,203.3 |
| Forberg Scientific Inc | 4 | 4 | \$112,944.0 |
| Fishbeck | 4 | 1 | \$112,008.7 |
| Process Wastewater Technologies LLC | 1 | 1 | \$110,900.0 |
| Merrick Industries Inc. | 1 | 1 | \$110,292.0 |
| West Coast Labour Systems Corp | 2 | 1 | \$108,497.2 |
| Zones Inc | 3 | 3 | \$107,517.5 |
| WC Environmental Inc. | 5 | 5 | \$105,344.2 |
| The Christman Company | 2 | 1 | \$104,374.5 |
| Trendset Communications Group, LLC | 6 | 5 | \$103,658.8 |
| Carahsoft Technology Group | 3 | 2 | \$103,117.3 |
| GHD Services Inc. | 15 | 4 | \$101,572.8 |
| Birclar Electric & Electronics LLC | 6 | 3 | \$99,955.0 |
| Sulco Chemicals Limited | 19 | 1 | \$99,252.7 |
| 360water, Inc. | 3 | 1 | \$99,123.0 |
| Commercial Construction Inc. | 5 | 4 | \$95,771.3 |
| Power Process Piping, Inc. | 1 | 1 | \$95,264.0 |
| Advance Instrumentation Systems | 6 | 4 | \$94,940.0 |
| Integrated Power Services LLC | 2 | 1 | \$94,533.0 |
| Detroit Salt Company LLC | 12 | 10 | \$93,305.0 |
| Howard Commercial Door | 7 | 7 | \$92,079.0 |
| Secure Door LLC | 75 | 1 | \$91,076.3 |
| FranklinCovey Client Sales Inc. | 1 | 1 | \$90,950.0 |
| Digital Science Group LLC | 8 | 5 | \$90,114.2 |
| Isle Inc. | 4 | 3 | \$87,500.0 |
| Amazon Web Services Inc | 12 | 3 | \$86,934.2 |
| Smartsheet Inc | 1 | 1 | \$85,000.0 |
| Merit Laboratories Inc | 81 | 15 | \$83,078.0 |
| Wayne State University | 9 | 2 | \$82,955.3 |
| Xylem Dewatering Solutions Inc | 1 | 1 | \$82,688. |
| Rosemount Analytical Inc | 10 | 7 | \$82,625.1 |
| Vieux & Associates Inc. | 19 | 3 | \$80,210.0 |
| David D. Taylor | 25 | 1 | \$79,432.8 |
| Nelson Liquid Drive LLC | 1 | 1 | \$79,200.0 |
| Wayne Health | 1 | 1 | \$79,182.0 |
| National Association of Clean Water | 1 | 1 | \$78,955.0 |
| Robert Half Finance & Accounting | 10 | 1 | \$78,925.0 |
| Herc Rentals Inc. | 65 | 7 | \$78,633.3 |
| Unemployment Insurance Agency | 3 | 1 | \$78,320.7 |
| Townsend Search Group, LLC | 17 | 1 | \$77,825.0 |
| Littler Mendelson PC | 14 | 2 | \$76,894.0 |
| State of Michigan - EGLE | 35 | 1 | \$76,864.2 |
| Elvira P. Jenkins | 1 | 1 | \$76,662.4 |
| Williams Acosta PLLC | 47 | 4 | \$75,497.2 |
| Hugh Connolly | 12 | 1 | \$75,270.0 |
| Emphasys Software | 2 | 1 | \$74,000.0 |
| Titus Welding Company Inc | 4 | 2 | \$73,899.6 |
| Robert M Kowal | 12 | 1 | \$73,225.0 |
| Energy Products Inc | 10 | 9 | \$73,052.2 |
| Cartridge Savers Inc | 130 | 1 | \$73,011. |
| Lockton Companies LLC | 12 | 1 | \$71,069. ⁴ |
| ingersoll Rand Company | 7 | 4 | \$70,584.4 |
| Seagull Control Systems LLC | 3 | 3 | \$70,412. |
| Caniff Electric Supply Co., Inc. | 31 | 15 | \$70,393. |
| Geotab USA, Inc. | 17 | 1 | \$68,809.2 |
| DES Electric LLC | 4 | 2 | \$68,346. |
| Fort Gratiot Charter Township | 4 | 1 | \$68,281. |
| Yates Industries Inc | 14 | 11 | \$67,838.8 |
| OSIsoft LLC | 1 | 1 | \$67,815.0 |
| Smith's Waterproofing LLC | 7 | 6 | \$67,171.0 |
| Tom Holzer Ford Inc. | 1 | 1 | \$66,858.6 |

| Arie Farmington LLC | 1 | 1 | \$66,600. |
|-----------------------------------|-----|----|------------------------|
| R.P. Adams | 1 | 1 | \$65,594.0 |
| A/C Service & Repair Inc. | 2 | 2 | \$65,555. |
| Santoro Incorporated | 9 | 3 | \$65,490. |
| Michigan.com | 3 | 3 | \$65,472. |
| Re-Source Partners | 2 | 2 | \$63,550. |
| Wayne County Community College | 6 | 6 | \$62,935. |
| Park Rite Inc | 12 | 1 | \$62,400. |
| CK Environmental, Inc. | 7 | 1 | \$61,428. |
| Barris Sott Denn & Driker | 11 | 1 | \$60,684. |
| Henry Ford Health System | 12 | 1 | \$60,312. |
| Binkelman Corporation | 29 | 19 | \$59,029. |
| MetalFab Inc | 26 | 26 | \$57,861. |
| ANSYS, Inc. | 1 | 1 | \$56,377. |
| US Bank | 15 | 11 | \$55,200. |
| 39050 Grand River LLC | 1 | 1 | \$54,545. |
| Kerr Pump and Supply, Inc. | 4 | 2 | \$53,961. |
| Suburban Haggerty Property, LLC | 1 | 1 | \$52,878. ⁴ |
| Miss Dig System Inc. | 2 | 2 | \$52,611. |
| Carmeuse Lime & Stone | 8 | 1 | \$52,156. |
| MacAllister Machinery Co Inc | 30 | 14 | \$51,889. |
| Valve Reconditioning Service | 2 | 2 | \$51,835. |
| City Of Allen Park | 3 | 1 | \$51,694. |
| Jim Myers & Sons, Inc. | 7 | 5 | \$51,520. |
| Info-Tech Research Group Inc | 1 | 1 | \$50,646. |
| USA Bluebook - Main | 18 | 16 | \$50,185. |
| Allie Brothers Inc | 188 | 2 | \$50,056. |
| Gray Matter Systems LLC | 1 | 1 | \$49,991. |
| DP Brown Of Detroit Inc | 18 | 12 | \$49,938. |
| Alfonsi Railroad Construction Co | 1 | 1 | \$49,786. |
| SkyNorth Software | 12 | 2 | \$48,825. |
| Electrical Workers Insurance Fund | 68 | 1 | \$48,578. |
| Industrysafe Inc. | 2 | 1 | \$48,570. |
| Fred's Key Shop | 11 | 5 | \$47,195. |
| Baileigh Industrial | 3 | 3 | \$47,080. |
| Detroit Boiler Company | 1 | 1 | \$46,895. |
| Central Oil LLC | 3 | 3 | \$46,718. |
| Wadsworth Solutions Northwest | 6 | 6 | \$46,718. |
| The Macomb Group Inc | 66 | 32 | \$46,024. |
| Linkedin Corporation | 2 | 2 | \$45,845. |
| Industrial Furnace Co Inc | 2 | 2 | \$45,587. |
| Professional Pump Inc | 1 | 1 | \$45,514. |
| Consumers Energy | 92 | 1 | \$45,152. |
| Nearmap US Inc. | 1 | 1 | \$45,000. |
| Hupp Consulting LLC | 9 | 1 | \$44,906. |
| Univar USA Inc | 10 | 4 | \$44,311. |
| Plunkett Cooney PC | 25 | 3 | \$43,924. |
| Marshall E. Campbell Company | 34 | 22 | \$43,880. |
| Allen Brothers, PLLC | 21 | 2 | \$43,873. |
| Sehi Computer Products Inc | 5 | 3 | \$42,852. |
| Cornerstone onDemand Inc. | 1 | 1 | \$42,723. |
| Fausone Bohn LLP | 14 | 2 | \$41,807. |
| Granicus LLC | 1 | 1 | \$41,018. |
| Aircentric Corporation | 7 | 7 | \$40,827. |
| Calls Plus | 2 | 1 | \$40,287. |
| Magnolia River Services Inc. | 4 | 1 | \$40,280. |
| Edwards & Jennings, PC | 1 | 1 | \$40,000. |
| nnovyze Inc | 1 | 1 | \$39,941. |
| Graybar Electric Company | 46 | 32 | \$39,925. |
| Laird Plastics | 3 | 3 | \$39,648. |
| Sustema Inc. | 1 | 1 | \$39,484. |
| Vitalsmarts LC | 9 | 1 | \$39,455. |

| Access Inc | 2 | 2 | \$39,447.8 |
|-------------------------------------|----|----|--------------------|
| KnowBe4 Inc. | 1 | 1 | \$39,396.0 |
| Barta Sales LLC | 11 | 10 | \$39,380.9 |
| Excalibur Engineering LLC | 1 | 1 | \$38,900.0 |
| Newton Manufacturing Company | 4 | 4 | \$38,332.0 |
| Project Innovations Inc | 16 | 2 | \$38,065.0 |
| Nemeth Law PC | 13 | 1 | \$37,809.8 |
| Alexander Chemical Corporation | 6 | 2 | \$37,723.9 |
| United Rentals North America Inc | 16 | 8 | \$37,582.9 |
| Gutermann Inc. | 1 | 1 | \$37,540.0 |
| Brown and Caldwell Constructors | 2 | 2 | \$37,367.6 |
| DLT Solutions LLC | 4 | 4 | \$37,079.7 |
| Midwest Municipal Instrumentation | 4 | 4 | \$36,690.1 |
| Cisco Systems Inc | 12 | 1 | \$36,360.0 |
| Powder Bulk Products Inc | 3 | 3 | \$35,269.0 |
| Christy Glass Company, Inc. | 2 | 2 | \$35,251.8 |
| Miller Canfield Paddock & Stone PLC | 7 | 2 | \$34,530.0 |
| Gexpro | 3 | 3 | \$34,206.3 |
| Stephanie M. Stevenson | 2 | 1 | \$33,667.4 |
| Macomb Mechanical Inc | 14 | 11 | \$33,531.0 |
| Attorney Eric V Smith PLC | 11 | 1 | \$33,325.0 |
| FastSigns Detroit | 7 | 1 | \$33,218.9 |
| OHM Advisors | 12 | 1 | \$32,890.0 |
| Ancona Controls Inc. | 4 | 3 | \$32,667.1 |
| Harold Beck & Sons Inc | 3 | 3 | \$32,613.4 |
| HP INC | 18 | 2 | \$32,608.3 |
| Cosa Xentaur Corporation | 2 | 2 | \$32,445.7 |
| Rosemount Inc | 4 | 4 | \$32,442. |
| Dubois-Cooper Associates Inc | 1 | 1 | \$32,334.0 |
| City of Detroit | 36 | 1 | \$32,278.7 |
| The Lab Depot Inc | 4 | 2 | \$32,273.4 |
| Engineering Systems Inc. | 2 | 1 | \$32,163.4 |
| Michigan CAT | 28 | 5 | \$32,122.1 |
| iPROMOTEu.com Inc | 1 | 1 | \$32,074.4 |
| Aero Filter Inc | 40 | 3 | \$31,797.0 |
| Choctaw-Kaul Distribution Company | 35 | 21 | \$31,276.6 |
| Virtual Graffiti Inc | 1 | 1 | \$30,553.2 |
| SCI Floor Covering Inc. | 1 | 1 | \$30,256.0 |
| RMF Nooter Inc | 1 | 1 | \$29,800.0 |
| Cornell Field Vibration Service Inc | 27 | 3 | \$29,750.0 |
| ProPac Inc. | 1 | 1 | \$29,611. 4 |
| TWN Consulting LLC | 10 | 1 | \$29,550. |
| EnviroCare International Inc. | 4 | 3 | \$29,516.5 |
| Communications Professionals Inc | 15 | 14 | \$29,420.0 |
| SDSpro LLC | 1 | 1 | \$29,090.0 |
| ADVISA | 1 | 1 | \$29,000.0 |
| SBT Instruments A/S | 4 | 4 | \$28,675.5 |
| BS&A Software | 2 | 1 | \$28,566.0 |
| Oracle America Inc | 2 | 2 | \$28,125.0 |
| Ayyeka Inc. | 1 | 1 | \$28,045.0 |
| Starr Butler, PLLC | 25 | 2 | \$28,037.0 |
| Collins Einhorn Farrell PC | 8 | 1 | \$27,653.0 |
| Corey Thomas | 1 | 1 | \$26,608.2 |
| Albert Kahn Associates Inc. | 2 | 1 | \$26,310. |
| FMLASource Incorporated | 5 | 1 | \$26,079. |
| NOAR Technologies | 3 | 3 | \$25,976. |
| Best Aire Compressors Services Inc | 15 | 7 | \$25,975. |
| SW Controls Inc | 5 | 5 | \$25,413. |
| Friends of the Rouge | 1 | 1 | \$25,000.0 |
| ZOHO Corporation #4926 | 1 | 1 | \$24,970.0 |
| Carlson-Dimond & Wright Inc | 1 | 1 | \$24,906.0 |
| Federal Pipe & Supply Co Inc | 47 | 35 | \$24,529.4 |

| Association of Metropolitan Water | 1 | 1 | \$24,415.0 |
|------------------------------------|----|----|--------------------|
| Process Improvement Institute Inc. | 2 | 1 | \$24,260.0 |
| Fishbeck, Thompson, Carr & Huber | 1 | 1 | \$24,197.0 |
| ONYX Engineering Ltd. | 1 | 1 | \$24,000.0 |
| Capturis | 12 | 1 | \$23,264.0 |
| Ferguson Waterworks | 2 | 2 | \$23,201.4 |
| Tracker | 14 | 2 | \$23,150.0 |
| Waterworks Systems & Equipment Inc | 3 | 3 | \$23,115.0 |
| County Fire Protection Inc | 1 | 1 | \$22,600.0 |
| Alro Steel Corporation | 4 | 4 | \$22,349.3 |
| S P Kinney Engineers Inc | 3 | 3 | \$21,885.5 |
| AVE Office Supplies | 95 | 4 | \$21,782.0 |
| ESRI Inc. | 3 | 1 | \$21,593.2 |
| Safety Services Inc | 28 | 23 | \$21,458.4 |
| Durawear Glove & Safety Co. Inc. | 9 | 9 | \$21,438.4 |
| Butzel Long PC | 2 | 1 | \$21,337.5 |
| Mount Holly Ski Resort Inc | 1 | 1 | \$21,101.0 |
| Quinn Evans | 5 | 1 | \$21,000.0 |
| Havener Tech | 2 | 2 | \$21,000.0 |
| Unconventional Services Inc | 1 | 1 | \$20,950.0 |
| Pace Analytical | 13 | 2 | \$20,772.0 |
| CL, LLC | 1 | 1 | \$20,521.6 |
| The Transmitter Shop | 1 | 1 | \$20,495.0 |
| Akeel & Valentine PLC | 1 | 1 | \$20,417.0 |
| ConvergeOne Inc | 2 | 1 | \$20,315.6 |
| Incinerator Rx Corporation | 2 | 1 | \$20,085.0 |
| Kaleidico LLC | 16 | 1 | \$20,000.0 |
| Schneider Electric IT USA, Inc | 3 | 2 | \$19,867.0 |
| American Tower Management LLC | 14 | 1 | \$19,822.4 |
| Henry Ford College | 3 | 3 | \$19,493.9 |
| Pluralsight | 1 | 1 | \$19,475.0 |
| TPC Training | 1 | 1 | \$19,080.0 |
| Cincinnati Babbitt Inc | 2 | 2 | \$19,068.0 |
| Modern Water Inc. | 14 | 5 | \$18,357.9 |
| Frontier Communications | 9 | 1 | \$18,231.3 |
| Rose Moving & Storage Co. Inc. | 1 | 1 | \$18,070.0 |
| Wolverine Power Systems | 9 | 3 | \$17,927.2 |
| Eagle Industrial Contracting Inc | 1 | 1 | \$17,926.0 |
| Overhead Door West Commercial Inc | 18 | 17 | \$17,910.5 |
| Air Dimensions Inc | 2 | 2 | \$17,850.6 |
| Qmarkets USA Inc. | 1 | 1 | \$17,400.0 |
| Teri J Gorman PLLC | 1 | 1 | \$17,317.8 |
| Major Brand Oil Company Inc | 3 | 3 | \$17,283.6 |
| Preferred Contracting Group | 2 | 2 | \$17,250.0 |
| Weingartz Supply Co., Inc. | 6 | 1 | \$17,055.9 |
| Environmental Resource Associates | 24 | 21 | \$16,953.1 |
| Newark Element14 | 1 | 1 | \$16,481.6 |
| ackson Lewis P.C. | 11 | 1 | \$16,207.9 |
| Scaffold Training Institute | 1 | 1 | \$16,050.0 |
| Anderson Process | 1 | 1 | \$16,034.0 |
| Service Electric Supply Inc | 32 | 26 | \$15,899.8 |
| BigTime Software Inc. | 1 | 1 | \$15,840. |
| Core Electric Company Inc | 4 | 4 | \$15,783.3 |
| Gallup Inc | 1 | 1 | \$15,750. |
| Canfield Equipment Service Inc | 2 | 2 | \$15,698.0 |
| Ritter US LLC | 1 | 1 | \$15,375. |
| Enerco Corporation | 4 | 1 | \$15,188. |
| Solomon Diving Inc. | 3 | 2 | \$15,160.0 |
| E2intel | 2 | 2 | \$15,000.0 |
| Powell Fabrication & Manufacturing | 3 | 3 | \$14,972. 4 |
| Xerox Corporation | 14 | 3 | \$14,905.7 |
| Evoqua Water Technologies LLC | 9 | 7 | \$14,829.3 |

| Paragon Laboratories Inc | 21 | 5 | \$14,639.0 |
|-------------------------------------|----|----|------------|
| Recycle Waste Services Inc. | 3 | 1 | \$14,479.1 |
| SafetySkills, LLC | 1 | 1 | \$14,400.0 |
| Scientific Methods Inc | 13 | 1 | \$14,245.0 |
| Power Plus Engineering Inc | 2 | 2 | \$14,100.0 |
| CSX Transportation | 9 | 1 | \$13,916.6 |
| SD Myers Inc. | 2 | 2 | \$13,797.0 |
| Uline, Inc. | 32 | 20 | \$13,664.7 |
| Kent Air Products Inc | 2 | 1 | \$13,629.0 |
| Trace Analytical Laboratories Inc | 18 | 5 | \$13,600.5 |
| Consulting-Portal Inc | 1 | 1 | \$13,490.0 |
| Black Anvil Construction Supplies | 30 | 7 | \$13,377.2 |
| TestAmerica Laboratories Inc | 16 | 4 | \$13,322.5 |
| G.E. Distribution Service/ipromoteu | 5 | 5 | \$13,303.8 |
| KSB Dubric Inc | 1 | 1 | \$13,208.0 |
| EH Wachs | 4 | 4 | \$12,909.4 |
| MSC Filtration Technologies | 1 | 1 | \$12,769.3 |
| Perkinelmer Health Sciences, Inc | 2 | 1 | \$12,452.0 |
| Transcat Inc | 4 | 4 | \$12,358.4 |
| R.S. Means Company LLC | 2 | 2 | \$12,190.0 |
| Spina Electric Company | 2 | 2 | \$12,111.0 |
| DTE Energy - Primary | 1 | 1 | \$12,000.0 |
| International Controls & Equipment | 5 | 5 | \$11,846.0 |
| Wesco Distribution Inc | 6 | 1 | \$11,478.0 |
| Harrington Industrial Plastics LLC | 15 | 11 | \$11,409.4 |
| RJ Stacey LTD | 3 | 1 | \$11,250.0 |
| 0 I Analytical | 3 | 3 | \$11,229.5 |
| Thermo Electron North America LLC | 2 | 2 | \$10,810.8 |
| TMI Compressed Air System | 1 | 1 | \$10,659.4 |
| HM Environmental Services Inc. | 1 | 1 | \$10,525.0 |
| Pure Technologies US Inc | 1 | 1 | \$10,500.0 |
| Bearing Service Inc | 6 | 6 | \$10,446.1 |
| Boomer Construction Materials | 60 | 1 | \$10,412.9 |
| Cryogenic Pipe Freezing Solutions | 1 | 1 | \$10,407.0 |
| Sunbelt Rentals, Inc. | 6 | 2 | \$10,303.5 |
| ImageSoft Inc | 8 | 1 | \$10,295.6 |
| KVM Door Systems | 1 | 1 | \$10,200.0 |
| Bell Equipment Company | 2 | 2 | \$10,150.0 |
| Ino-Tek Inc | 4 | 4 | \$10,092.0 |
| Action Mat & Towel Rental | 28 | 1 | \$10,067.0 |
| Environmental Consulting | 10 | 1 | \$10,000.0 |
| Federal Railroad Administration | 1 | 1 | \$9,625.0 |
| West Shore Fire | 1 | 1 | \$9,542.5 |
| Michigan Mechanical Services Inc | 1 | 1 | \$9,500.0 |
| Northern Machining & Repair, Inc. | 1 | 1 | \$9,500.0 |
| Ram Meter Inc. | 2 | 1 | \$9,451.8 |
| T & N Services Inc | 4 | 4 | \$9,339.5 |
| Kirk's Automotive Inc | 22 | 17 | \$9,212.7 |
| Dice Career Solution | 1 | 1 | \$8,995.0 |
| Inland Press | 1 | 1 | \$8,977.0 |
| Marsh Power Tools, Inc | 23 | 1 | \$8,926.0 |
| I & C Sales North Inc | 2 | 2 | \$8,920.7 |
| PEA Group | 2 | 1 | \$8,810.0 |
| Consolidated Chemical | 2 | 2 | \$8,781.5 |
| Quality Paving | 1 | 1 | \$8,640.0 |
| Crown Lift Trucks | 19 | 12 | \$8,529.6 |
| McLaren Port Huron Industrial | 6 | 1 | \$8,494.0 |
| Bearcom | 3 | 3 | \$8,486.0 |
| ASTI Environmental | 1 | 1 | \$8,480.0 |
| Dynamita | 1 | 1 | \$8,400.0 |
| Robin Cash Ph.D., LLC | 6 | 1 | \$8,352.0 |
| WPEngine Inc. | 1 | 1 | \$8,280.0 |

| Unconventional Solutions Inc | 1 | 1 | \$8,246.6 |
|-------------------------------------|-----|----|-----------|
| Specialty Maintenance Products | 2 | 2 | \$8,141.6 |
| Visual Workplace Inc. | 6 | 5 | \$8,056.8 |
| MIDCOM Data Technologies Inc. | 1 | 1 | \$8,017.6 |
| Fife-Pearce Electric Company | 1 | 1 | \$7,948.0 |
| Fairfield Service Co. of Indiana | 1 | 1 | \$7,908.5 |
| The Allen Law Group PC | 3 | 1 | \$7,890.0 |
| Commerce Controls Inc | 1 | 1 | \$7,825.0 |
| Bearing Headquarters Co | 7 | 6 | \$7,509.4 |
| Zausmer August & Caldwell PC | 7 | 1 | \$7,397.5 |
| Canon Solutions America Inc | 19 | 3 | \$7,331.1 |
| Fab Tech Wastewater Solutions LLC | 1 | 1 | \$7,300.0 |
| Kopka Pinkus & Dolin PC | 11 | 1 | \$7,290.2 |
| Allied-Eagle Supply Company LLC | 11 | 10 | \$7,248.5 |
| Advanced Technology Services Inc. | 4 | 2 | \$7,232.6 |
| Aston Carter Inc. | 3 | 1 | \$7,179.2 |
| Galloup,Forberg Smith, Merlo Energy | 7 | 5 | \$7,061.5 |
| Corrosion Fluid Products | 2 | 2 | \$7,060.4 |
| BAVCO | 9 | 9 | \$7,059.3 |
| Space Camp LLC | 1 | 1 | \$7,000.0 |
| Hotsy Midwest Cleaning Systems | 1 | 1 | \$6,990.0 |
| Summerville Law Firm PLLC | 10 | 1 | \$6,943.0 |
| Gold Coin Laundries LLC | 20 | 2 | \$6,915.4 |
| Applied Industrial Technologies Inc | 4 | 4 | \$6,774.4 |
| Alpha Psychological Services PC | 9 | 1 | \$6,735.0 |
| Engineered Lifting Technologies | 1 | 1 | \$6,655.0 |
| Compass Minerals America Inc. | 1 | 1 | \$6,633.9 |
| American Fence Supply Co Inc | 1 | 1 | \$6,619.5 |
| Sentinel Technologies, Inc. | 9 | 1 | \$6,600.0 |
| Continental Carbon Group Inc | 4 | 1 | \$6,460.0 |
| Curvature Technologies LLC | 3 | 1 | \$6,350.1 |
| PTS Professional Technical Service | 1 | 1 | \$6,275.0 |
| Midwest Air Filter Inc | 6 | 6 | \$6,246.9 |
| Digital Assurance Certification LLC | 3 | 1 | \$6,200.0 |
| Allstate Industrial Equipment | 3 | 3 | \$6,110.1 |
| Wright Tool Co | 4 | 3 | \$6,081.6 |
| Sherwin Williams Company | 32 | 5 | \$6,054.9 |
| Central Poly-Bag Corp | 6 | 6 | \$6,050.0 |
| Treadwell & Associates Inc | 3 | 1 | \$6,000.0 |
| Gai-Tronics Corporation | 1 | 1 | \$6,000.0 |
| Michigan Mechanical Insulation | 2 | 2 | \$5,729.1 |
| White Oak Environmental & Safety | 1 | 1 | \$5,701.0 |
| FTP Today Inc. | 1 | 1 | \$5,700.0 |
| Hennessey Engineers Inc. | 1 | 1 | \$5,700.0 |
| Complete Battery Source | 3 | 3 | \$5,694.8 |
| EMP Industries Inc | 1 | 1 | \$5,630.6 |
| M&E Sales LLP | 1 | 1 | \$5,523.0 |
| Michigan Valve & Fitting Inc | 5 | 5 | \$5,319.3 |
| Fibre Industries | 8 | 8 | \$5,259.5 |
| Detroit Legal News | 7 | 3 | \$5,236.8 |
| Cech Corporation | 2 | 2 | \$5,017.0 |
| Echologics LLC | 1 | 1 | \$4,999.(|
| Engineer Supply | 1 | 1 | \$4,990.0 |
| DTN LLC | 12 | 2 | \$4,944.0 |
| EKUIPTECH, LLC | 2 | 2 | \$4,897.0 |
| Fluid Process Equipment | 1 | 1 | \$4,839.9 |
| Rehmann Robson | 1 | 1 | \$4,800.0 |
| CL Snowplow Dealer Inc. | 1 | 1 | \$4,399.0 |
| The Crowley Company | 2 | 2 | \$4,298.0 |
| United Parcel Service | 140 | 1 | \$4,288.8 |
| Hamlett Environmental Technologies | 3 | 3 | \$4,257.0 |
| Pruftechnik Inc | 1 | 1 | \$4,231.5 |

| Sellinger Associates Inc | 3 | 1 | \$4,200.0 |
|--|----|---|------------------------|
| Quadient Inc. | 13 | 2 | \$4,191.1 |
| Torch Associates LLC | 2 | 2 | \$4,178.0 |
| HireRight, LLC | 9 | 1 | \$4,129.8 |
| Port Huron Glass Inc | 1 | 1 | \$4,127.0 |
| EMC Corporation | 1 | 1 | \$4,014.0 |
| Hantz Farms LLC | 10 | 1 | \$4,000.0 |
| JEM Industries, Inc. | 7 | 4 | \$3,915.1 |
| Heritage Vision Plans | 11 | 1 | \$3,911.0 |
| Action Impact - Eastpointe | 6 | 1 | \$3,863.5 |
| American Water Works Association | 3 | 3 | \$3,859.2 |
| Tobys Instrument Shop Inc Shimadzu Scientific Instruments Inc | 8 | 7 | \$3,846.0 |
| | 2 | 2 | \$3,824.0 |
| Indian Springs Mfg. Co Inc VESCO Oil Corporation | 3 | 2 | \$3,705.0 \$3,618.2 |
| Steven H Schwartz & Associates PLC | 5 | | |
| Biotage LLC | 3 | 1 | \$3,613.8 \$3,612.9 |
| United States Treasury | 1 | 1 | \$3,574.2 |
| Sabiston Building Supply | 29 | 2 | \$3,539.5 |
| Spalding DeDecker | 1 | 1 | \$3,525.0 |
| Faro Imaging Solutions | 1 | 1 | \$3,500.0 |
| Public Rubber & Supply Co Inc | 7 | 7 | \$3,496.2 |
| Johnson Plastics Plus | 2 | 1 | \$3,475.6 |
| YSI Incorporated | 2 | 1 | \$3,445.1 |
| Graybar Electric | 3 | 2 | \$3,260.0 |
| Kitch Drutchas Wagner Valitutti | 3 | 1 | \$3,240.0 |
| Edward Malindzak | 1 | 1 | \$3,225.0 |
| Scaffolding Incorporated | 1 | 1 | \$3,187.8 |
| Davenport Brothers Construction Co. | 2 | 2 | \$3,180.0 |
| National Ladder & Scaffold Company | 1 | 1 | \$3,099.9 |
| Bert's Testing & Training Services | 1 | 1 | \$3,006.3 |
| Detroit-Wayne Joint Building Auth | 1 | 1 | \$3,000.0 |
| UPS Freight | 14 | 1 | \$2,969.7 |
| LexisNexis | 12 | 1 | \$2,952.0 |
| B&H Photo-Video | 1 | 1 | \$2,946.9 |
| AHB Tooling & Machinery LLC | 1 | 1 | \$2,926.8 |
| Marine Pollution Control Corp | 2 | 1 | \$2,902.0 |
| HP Electric Motor Inc. | 1 | 1 | \$2,900.0 |
| J. Dedoes Enterprises Inc. | 8 | 1 | \$2,884.6 |
| Brooks Lumber Company | 7 | 7 | \$2,853.9 |
| Quadient Leasing USA Inc. | 5 | 1 | \$2,827.5 |
| Renee Walker & Associates LLC | 1 | 1 | \$2,800.0 |
| Identification Lamination Products | 4 | 4 | \$2,784.5 |
| Cadillac Asphalt LLC | 1 | 1 | \$2,768.6 |
| Iron Mountain | 36 | 1 | \$2,750.4 |
| O'Reilly Rancilio P.C. | 1 | 1 | \$2,750.0 |
| Ossian Law PC | 5 | 1 | \$2,725.0 |
| Discovery Solutions Inc | 14 | 2 | \$2,718.9 |
| L.I.J.B.S. Enterprises, LLC | 4 | 1 | \$2,703.3 |
| Medcor Inc | 11 | 1 | \$2,688.0 |
| F B Wright Company | 3 | 2 | \$2,663.6 |
| Andax Industries LLC | 6 | 6 | \$2,616.6 |
| ShredCorp. | 1 | 1 | \$2,600.0 |
| Process Control Services Inc | 2 | 1 | \$2,596.0 |
| Detroit Training Center | 1 | 1 | \$2,500.0 |
| LabStrong Corporation | 2 | 2 | \$2,449.3 |
| Michfab Machinery Inc. | 2 | 1 | \$2,400.9 |
| Jones Equipment Rental | 1 | 1 | \$2,400.0 |
| Eastern Michigan University | 2 | 2 | \$2,400.0 |
| Omega Engineering Inc | 1 | 1 | \$2,397.7 |
| Swanky Restroom Trailers | 2 | 1 | \$2,300.0 |
| Farnell Equipment Company | 1 | 1 | \$2,300.0 |

| Ligas Enterprises Inc | 1 | 1 | \$2,287.0 |
|-------------------------------------|----|----|-----------|
| Accredited Lock & Door Hardware | 4 | 3 | \$2,278.5 |
| American Red Cross | 10 | 1 | \$2,269.5 |
| JJ Curran Crane Company | 1 | 1 | \$2,230.0 |
| HH Barnum Company | 2 | 1 | \$2,159.7 |
| Concentra Medical Centers | 10 | 7 | \$2,158.5 |
| Neville-Ewell PLLC | 2 | 1 | \$2,100.0 |
| Michigan Pipe & Valve Inc | 1 | 1 | \$2,080.6 |
| Analytical Technology Inc | 1 | 1 | \$2,064.1 |
| Raven Environmental Products Inc | 1 | 1 | \$2,060.5 |
| Wolverine Rental & Supply Inc | 1 | 1 | \$2,059.3 |
| Thermo Fisher Scientific Asheville | 4 | 1 | \$2,047.9 |
| Teknicolors Paints Inc | 18 | 2 | \$2,040.8 |
| Eaton Engineering Services | 1 | 1 | \$2,035.0 |
| Pure Data Services, LLC | 7 | 2 | \$2,013.6 |
| Southeast MI Community Alliance | 2 | 2 | \$2,000.0 |
| ZLED Lighting | 2 | 2 | \$1,985.2 |
| Global Environmental Consulting LLC | 5 | 3 | \$1,950.0 |
| Truckntow.com | 1 | 1 | \$1,947.9 |
| Clark Hill | 3 | 2 | \$1,926.0 |
| Bentley Systems Incorporated | 1 | 1 | \$1,926.0 |
| Galloup | 2 | 2 | \$1,889.6 |
| NSI Lab Solutions Inc | 1 | 1 | \$1,873.0 |
| Able Label | 1 | 1 | \$1,858.5 |
| Action Automation | 1 | 1 | \$1,831.0 |
| Spraying Systems Co. | 1 | 1 | \$1,816.8 |
| Chavond-Barry Engineering Corp. | 1 | 1 | \$1,800.0 |
| City of Highland Park | 1 | 1 | \$1,800.0 |
| Teletrac Inc | 14 | 5 | \$1,797.6 |
| J.J. Supply Company Inc. | 3 | 2 | \$1,754.4 |
| Flor Dri Supply Company Inc | 2 | 2 | \$1,711.1 |
| Cashco Inc. | 3 | 2 | \$1,704.9 |
| Jones Lang Lasalle Michigan LLC | 1 | 1 | \$1,700.0 |
| Team Industrial Services Inc | 2 | 2 | \$1,662.2 |
| City of Troy | 2 | 1 | \$1,650.3 |
| Meco Metals Co | 2 | 2 | \$1,640.0 |
| Metro Detroit EITC | 1 | 1 | \$1,600.0 |
| Troy's Towing Inc. | 10 | 1 | \$1,595.0 |
| C P E Filters Inc | 1 | 1 | \$1,581.3 |
| Poco Sales Inc | 2 | 2 | \$1,576.5 |
| L&W Supply | 7 | 1 | \$1,573.4 |
| IDN Hardware Sales, Inc. | 2 | 2 | \$1,568.8 |
| Envirosolids, LLC | 1 | 1 | \$1,545.0 |
| Contractors Connection Inc | 2 | 2 | \$1,538.0 |
| Medler Electric Company | 3 | 3 | \$1,506.4 |
| Jan-Supply Detroit, LLC | 1 | 1 | \$1,505.0 |
| Downriver Refrigeration Supply Co | 1 | 1 | \$1,496.1 |
| K & K Maintenance Supply Inc | 2 | 2 | \$1,482.3 |
| Progressive Plumbing Supply Co Inc | 11 | 10 | \$1,469.1 |
| Balfrey & Johnston Inc | 1 | 1 | \$1,461.6 |
| PES Group Inc | 1 | 1 | \$1,440.0 |
| RealTech Controls | 1 | 1 | \$1,437.0 |
| Lyon LLC | 2 | 2 | \$1,402.5 |
| Chemtrac Inc | 2 | 2 | \$1,340.0 |
| Watson-Marlow, Inc | 1 | 1 | \$1,340.0 |
| Michigan Municipal League | 2 | 2 | \$1,269.8 |
| Towlift Inc | 1 | 1 | \$1,259.0 |
| Xylem Water Solutions Usa Inc | 1 | 1 | \$1,244.1 |
| Trescal | 2 | 1 | \$1,244.1 |
| M C Gutherie Lumber Company | 3 | 3 | \$1,224.0 |
| Commerical Group Lifting Products | 3 | 2 | \$1,221.3 |
| MSA Safety Sales LLC | 1 | 1 | \$1,221.3 |

| Central Metallizing & Machine | 1 | 1 | \$1,145.(|
|---|---------|---|--------------------|
| Powder Buy The Pound | 2 | 2 | \$1,084.9 |
| Bell Fork Lift Inc | 1 | 1 | \$1,070.1 |
| Comcast Business Communication, LLC | 1 | 1 | \$1,061.3 |
| Kinetics Industries, Inc. | 1 | 1 | \$1,009.9 |
| EnviroScience, Inc. | 1 | 1 | \$1,000.0 |
| GEO Jobe GIS Consulting | 2 | 2 | \$1,000.0 |
| Detroit Stoker Company LLC | 1 | 1 | \$987.6 |
| Thomson Reuters | 1 | 1 | \$984.0 |
| Fluke Electronics Corporation | 1 | 1 | \$950.0 |
| Cornerstone Controls Inc | 1 | 1 | \$926.2 |
| Lutz Roofing Company Inc. | 2 | 2 | \$904.3 |
| Detroit Contracting Inc | 3 | 2 | \$897.4 |
| HD Edwards & Company | 8 | 7 | \$891.8 |
| ade Scientific Inc | 3 | 2 | \$864.0 |
| Downriver Utility Wastewater Auth. | 3 | 3 | \$848.0 |
| Tredroc Tire Services, LLC | 2 | 1 | \$835.5 |
| York Repair Inc | 1 | 1 | \$808.7 |
| Dani's Aggregate Inc. Wex Bank | 1 | 1 | \$807.0 |
| | 8 | 1 | \$755.8 \$728.6 |
| Schad Refractory Construction Co | 1 9 | 1 | \$728.0 |
| FedEx | | 2 | \$725. |
| Drinkpod LLC Advance Plumbing & Heating Supply | 2 | 1 | \$719.0 |
| | | | 1.4.4 |
| Empire Equipment & Supply Inc. | 2 | 2 | \$674.3 |
| B & H Machine Sales, Inc | 2 | 2 | \$669.7 |
| City of Novi | 4 | 1 | \$637.4 |
| Bulldog Records Management Inc | 12 | 1 | \$633.0 \$604.0 |
| Feledyne Isco Pollardwater | 1 | 2 | · · · · |
| Seton | 4 | 1 | \$603.6 \$599.4 |
| North Channel Graphics | 1 | 1 | \$588.0 |
| Hygiena LLC | 1 | 1 | \$554.0 |
| Compressor Engineering Corporation | 1 | 1 | \$552.0 |
| Airgas USA LLC | 2 | 2 | \$547.4 |
| Sell's Equipment | 1 | 1 | \$540.2 |
| ATI Northbrook Operations | 1 | 1 | \$540.0 |
| Exotic Automation & Supply | 4 | 3 | \$539.0 |
| Morgan Advanced Materials | 1 | 1 | \$528.0 |
| ISE Metal Inc | 1 | 1 | \$524.0 |
| Deaf Community Advocacy Network | 1 | 1 | \$500.0 |
| South Park Welding Supplies Inc | 2 | 1 | \$499.0 |
| Allied Electronics Inc | 1 | 1 | \$496.2 |
| Chart Pool USA Inc | 1 | 1 | \$487.0 |
| Helwig Carbon Products Inc | 1 | 1 | \$470. |
| Chem Flowtronics Inc. | 1 | 1 | \$466.3 |
| Logan Glass Company | 1 | 1 | \$463.2 |
| Mail Delivery Service | 2 | 1 | \$405.2 |
| United States Plastic | 1 | 1 | \$455.2 |
| Macomb County Department of Roads | 1 | 1 | |
| Hi-Lo Industrial Trucks Co. Inc. | 1 | 1 | \$450. \$448. |
| ANL Spring Manufacturing Company | 1 | 1 | \$446. |
| | 1 | 1 | |
| Carleton Equipment Co. Radiation Safety Services | 1 | 1 | \$445.0 \$445.0 |
| Fintometer Inc. | 2 | 1 | \$445. |
| State of Michigan - WRD | 1 | 1 | \$430. |
| State of Michigan - MIOSHA | 1 | 1 | \$400. |
| City of Romulus | 7 | 1 | \$400. |
| Charter Township of Plymouth | | 1 | |
| Fastsigns | 11 1 | 1 | \$372.2 |
| | 2 | 1 | \$370. |
| Michigan Water Environment Cincinnati Time Systems | 2 | 2 | \$337.0 \$335.0 |

| Dal-Tile Distribution | 2 | 1 | \$324.9 |
|------------------------------------|-------|------|-----------------|
| Eurofins Eaton Analyical Inc | 3 | 1 | \$315.0 |
| City of Wayne - Water Department | 6 | 1 | \$309.9 |
| Wayne County Treasurer | 2 | 1 | \$309.6 |
| Shelby Township DPW | 4 | 1 | \$307.4 |
| Monroe County Road Commission | 1 | 1 | \$300.0 |
| McGard LLC | 1 | 1 | \$274.4 |
| Dani's Transport | 1 | 1 | \$260.4 |
| State of Michigan - LARA | 2 | 1 | \$240.0 |
| Society For Human Resource Mgt. | 1 | 1 | \$219.0 |
| Tri Star Steel Corporation | 1 | 1 | \$180.0 |
| Radwell International Inc. | 1 | 1 | \$159.2 |
| Josie Prantera | 1 | 1 | \$156.3 |
| City of Roseville Water Department | 4 | 1 | \$127.8 |
| Signs & More | 1 | 1 | \$126.0 |
| Liberty Plumbing Supply Company | 1 | 1 | \$115.9 |
| A-1 Truck Parts Detroit | 2 | 2 | \$110.9 |
| Treasurer, City of Detroit | 1 | 1 | \$107.0 |
| George Instrument Company | 1 | 1 | \$102.2 |
| Airtech Controls Co | 1 | 1 | \$73.6 |
| LARA | 1 | 1 | \$60.0 |
| Wayne County | 1 | 1 | \$59.2 |
| ZVerse Inc. | 1 | 1 | \$49.5 |
| SmartSign | 1 | 1 | \$38.4 |
| Baker's Gas & Welding Supplies Inc | 4 | 1 | \$36.7 |
| Gravotech, Inc. | 1 | 1 | \$33.9 |
| City of Southfield | 13 | 1 | \$33.0 |
| City of Rochester Hills | 6 | 1 | \$14.5 |
| (blank) | 1 | 1 | |
| Maple Press LLC | 1 | 1 | -\$70.0 |
| McMaster-Carr Industrial Supply Co | 2 | 2 | -\$3,405.1 |
| Robert Thomas CPA, LLC | 1 | 1 | -\$3,500.0 |
| Imagemaster, LLC | 2 | 1 | -\$5,897.3 |
| Glassdoor, Inc. | 1 | 1 | -\$12,100.0 |
| BondLink | 1 | 1 | -\$23,749.1 |
| PFM Financial Advisors LLC | 11 | 2 | -\$43,077.5 |
| S&P Global Ratings | 1 | 1 | -\$93,150.0 |
| Moody's Investors Service Inc | 1 | 1 | -\$114,500.0 |
| Fitch Ratings Inc | 2 | 2 | -\$120,000.0 |
| Dickinson Wright PLLC | 35 | 5 | -\$257,665.8 |
| Grand Total | 20529 | 3799 | \$413,052,933.5 |



Procurement Pipeline

Great Lakes Water Authority (313) 964-9157 <u>www.glwater.org</u>

March 2022 - Volume 36

AGENDA ITEM #9A

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

New! Coronavirus Update #156: Visitor COVID-19 Quarantine and Isolation Requirements

On March 11, 2022 GLWA released <u>Coronavirus</u> <u>Update #156</u> to the Vendor Community. This Coronavirus Update, which is available on the <u>GLWA Vendor Webpage</u>, outlines requirements for how Visitors can safely return to work at GLWA facilities or project worksites after a COVID-19 exposure or confirmed COVID-19 infection based on the Visitor's vaccination status.

Quarantine Requirements (COVID-19 Exposure)

- ✓ Not fully vaccinated Visitors (those who are unvaccinated or who have received only one dose of the Pfizer or Moderna COVID-19 vaccine) must quarantine for five days from last contact with COVID-19 positive person;
- ✓ <u>Fully vaccinated Visitors</u> (those who have received two doses of the Pfizer or Moderna vaccine or one dose of the Johnson & Johnson vaccine) do not need to quarantine;
- ✓ Fully and not fully vaccinated visitors must notify designated GLWA Project Manager of COVID-19 exposure and provide names for all GLWA close contacts;
- ✓ On or after day five, fully and not fully vaccinated visitors must receive a new COVID-19 test; and
- ✓ If negative, test result must be submitted with the <u>Visitor COVID-19 Questionnaire</u>.

Isolation Requirements (COVID-19 Infection)

- ✓ Fully and not fully vaccinated Visitors must quarantine for five days;
- ✓ Notify designated GLWA Project Manager of COVID-19 exposure and provide names for all GLWA close contacts;
- ✓ On or after day five of quarantine, get a COVID-19 test. If negative, test result must be submitted with the <u>Visitor COVID-19</u> <u>Questionnaire</u>.

We appreciate the Vendor Community's cooperation with GLWA's Visitor COVID-19 Quarantine and Isolation Requirements as we strive to maintain workplace safety. Additional questions regarding these matters should be directed to <u>Michael Lasley</u> and <u>Megan Savage</u>.

Virtual Vendor Introduction Meetings

If you are interested in learning more about doing business with GLWA, contact us at <u>GLWAVendorOutreach@glwater.org</u> to schedule a virtual vendor introduction meeting. Topics include information on submitting a competitive bid or proposal to a GLWA solicitation, as well as the requirements for GLWA's Business Inclusion and Diversity (B.I.D.) Program.

Where to Meet GLWA

GLWA attends vendor outreach events throughout Southeastern Michigan. We welcome you to visit us at the following upcoming events.

- Virtual event. Michigan Department of Transportation (MDOT) 41st Annual Disadvantaged Business Enterprise (DBE) Small Business Development Conference on March 22, 2022 from 8:30am-3:00pm. Registration details <u>here</u>.
- *In-person event*. Michigan Public Purchasing Officers Association (MPPOA) Reverse Trade Fair on April 29, 2022. This event will be held in Grand Rapids, Michigan from 10:30-3pm. Registration details <u>here</u>.

What's Coming Down the Pipe?

Current Solicitations: Register in GLWA's <u>Bonfire</u> <u>Procurement Portal</u> for new solicitations and contract award information.

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

Visit GLWA online!

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

Upcoming Solicitations March 2022

| Category | CIP # | Description/Project Title | Budget Estimate |
|--------------------------|----------------------|---|-----------------|
| Water System | (next four to nine m | nonths) | |
| Materials & Equipment | 114002E-G | Springwells WTP Pumping Unit Procurement Package (Contracts E thru G) | \$50,000,000 |
| Materials & Equipment | 114002H-J | | \$13,000,000 |
| Wastewater Sy | stems (next four to | nine months) | - |
| Construction | 211006 | Pump Station #1 Screenings Building HVAC Improvements | \$1,000,000 |
| Construction | 260800 | WRRF Roofing Improvements | \$1,600,000 |
| Design | 273001 | Hubbell Southfield Flushing and Facility Improvements (CSO) | \$5,500,000 |
| Construction | 232002 | Freud Pump Station Improvements | \$75,000,000 |
| Water System | (next three months | | |
| Construction | 114002B | Springwell's WTP Medium Voltage Electrical System Replacement | \$50,000,000 |
| Wastewater (n | ext three months) | 1 | |
| Construction | 260901 | HAZMAT (Hazardous Material) Building Renovation | \$1,300,000 |
| Construction | 211006 | WRRF Pump Station #1 Improvements | \$73,400,000 |
| Construction | 260903 | WRRF Front Entrance Rehabilitation | \$3,300,000 |
| Engineering Services | 260208 | Rehabilitation of GLWA Sewers; Ashland Relief, Linwood, Lonyo, Second Avenue, and Shiawassee | \$6,000,000 |
| | | eam (Preparing for solicitation on Bonfire) | \$0,000,000 |
| Trojects move | 260617, 270005, | cam (i repairing for sonetation on bonnie) | |
| Design | 270006 | CSO Facility Control Improvements #2 | \$3,002,500 |
| Request for Proposals | 0&M | 2023 Task Order Engineering Services | \$10,000,000 |
| Professional | | | +20,000,000 |
| Services | O&M | SCADA System Professional Services | \$5,500,000 |
| Design Build | 216011 | WRRF Structural Improvements | \$12,000,000 |
| Professional Services | 0&M | Elevator Preventative Maintenance | \$1,645,728 |

Vendors should continue to monitor <u>Bonfire</u> for solicitation updates.

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

AGENDA ITEM #9B



Financial Services Audit Committee Communication

Date: March 25, 2022

To: Great Lakes Water Authority Audit Committee

From: Kim Garland, CPA, Financial Services Area Chief of Staff

Re: Correction of FY 2023 Approved Pollutant Surcharge Charge Support

Background: GLWA staff would like to make the Audit Committee aware of an incorrect schedule attached to the February 23, 2022 Board agenda item related to proposed FY 2023 charges. The Pollutant Surcharge schedule included as support in the Board agenda item 2022-072 attachment 'C5 2023 Industrial Charge Schedule 2.23.2022' still reflected a 2.5% increase when in fact only 1.25% was ultimately recommended and approved. This issue impacted only the support schedule.

Update: This was corrected in the final, published schedule. Copies of the schedule from the Board agenda item and the approved schedule on the GLWA website follow for reference and confirmation of that change.

Erroneous schedule included as support in the February 23, 2022 Board of Directors agenda item 2022-072 attachment C5 reflecting the originally proposed 2.5% increase from FY 2022:

| | Pollutant Surcharges | | |
|--------------------|---------------------------------|-----------------|---------|
| | Pollutant | Charge \$/lb | |
| | BIOCHEMICAL OXYGEN DEMAND (BOD) | 4/10 | |
| | for concentrations > 275 mg/l | 0.356 | |
| | TOTAL SUSPENDED SOLIDS (TSS) | | |
| | for concentrations > 350 mg/l | 0.488 | |
| | PHOSPHORUS (P) | | |
| | for concentrations > 12 mg/l | 6.527 | |
| | FATS, OIL AND GREASE (FOG) | | |
| | for concentrations > 100 mg/l | 0.114 | |
| | SEPTAGE DISPOSAL FEE | | |
| | Per 500 gallons of disposal | 37.00 | |
| | | | |
| PROPOSED FY 2023 C | HARGES | | 2/23/20 |

| Pollutant Surcharges | |
|--|----------------|
| Pollutant | Charge |
| BIOCHEMICAL OXYGEN DEMAND (BOD) for concentrations > 275 mg/l | \$/lb 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 |
| APPROVED FY 2023 CHARGES | |

<u>Actual, approved and published</u> FY 2023 charges: <u>GLWA Website Link to FY 2023 Charges</u> reflecting the appropriate 1.25% increase implemented.

Financial Services Area staff is working with the Office of the Chief Administrative Officer to amend the original February 23, 2022 agenda item 2022-072, attachment C5 2023 Industrial Charge Schedule 2.23.2022 to reflect the actual, recommended and approved Pollutant Surcharge charges for FY 2023.

MOODY'S INVESTORS SERVICE

CREDIT OPINION

23 March 2022



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Great Lakes Wtr Auth, MI

Update to credit analysis

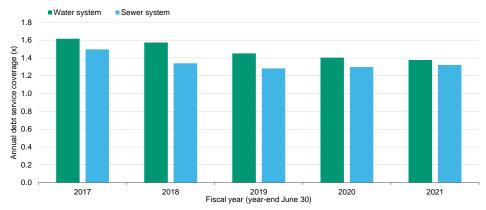
Summary

The <u>Great Lakes Water Authority's</u> (GLWA) <u>water</u> and <u>sewer</u> enterprises (both senior liens rated A1 stable; both subordinate liens rated A2 stable) have solid credit profiles, bolstered by very large service areas and a sizable scale of operations. GLWA has effectively balanced its hefty capital needs with an affordable rate structure, stable operating performance, consistent debt service coverage and good liquidity for both systems since its inception in 2016. The systems have above-average leverage, however, and the <u>City of Detroit</u> (Ba2 positive) makes up a significant portion of their service area.

The Detroit metropolitan statistical area (MSA) had extreme rainfall and flooding in the summer of 2021, which resulted in numerous claims and lawsuits for GLWA. While the total financial exposure of these claims is unknown at this time, the authority maintains general liability coverage up to \$10 million. As with other <u>Midwestern flooding events</u>, federal assistance has been critical in preventing material credit deterioration for impacted issuers. GLWA reports that FEMA has paid roughly \$173 million to impacted residents so far. Building greater resilience to extreme wet-weather events will be an ongoing challenge, however.

Exhibit 1

Annual debt service coverage for all debt has remained relatively stable for both systems since the authority's inception



Source: Moody's Investors Service

Credit strengths

- » Very large utility systems, providing essential water and wastewater services to a substantial portion of the state's population
- » Commitment to annual revenue enhancements to support sound debt service coverage and healthy liquidity
- » Track record of strong budget management and good transparency

Credit challenges

- » Declining water usage trends
- » High leverage will moderate slowly given outstanding capital needs and plans to issue additional debt
- » Increasing occurrence of extreme wet weather events placing strain on stormwater and sewer treatment capacity in certain segments of the system

Rating outlook

The outlook is stable because each system will sustain sound financial metrics given GLWA's track record of strong budget management and ability to raise rates. These strengths will continue to mitigate the challenges associated with high leverage and capital needs.

Factors that could lead to an upgrade

- » Sustained expansion and diversification of the service area's economic base
- » Growth in revenue that continues to outpace borrowing so as to moderate leverage of pledged resources

Factors that could lead to a downgrade

- » Renewed economic stress that pressures consumption and revenue trends
- » Material reduction to the water or sewer system's liquidity or debt service coverage ratios
- » Growth in leverage of the water or sewer system's net revenue

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Exhibit 2
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| Great Lakes Water Authority, MI Water Ent. | | | | | |
|--|-------------------|--------------------|-------------------|-------------|------------|
| System Characteristics | | | | | |
| Asset Condition (Net Fixed Assets / Annual Depreciation) | 17 years | | | | |
| System Size - O&M (in \$000s) | \$164,995 | | | | |
| Service Area Wealth: MFI % of US median | 96.8% | | | | |
| Legal Provisions | | | | | |
| Rate Covenant (x) | 1.20 | | | | |
| Debt Service Reserve Requirement | DSRF funded at le | sser of standard 3 | 8-prong test (Aa) | | |
| Management | | | | | |
| Rate Management | Aa | | | | |
| Regulatory Compliance and Capital Planning | A | | | | |
| Financial Strength | | | | | |
| | 2017 | 2018 | 2019 | 2020 | 202 |
| Operating Revenue (\$000) | \$428,044 | \$425,245 | \$407,231 | \$419,479 | \$411,58 |
| System Size - O&M (\$000) | \$145,499 | \$153,930 | \$163,519 | \$176,822 | \$164,99 |
| Net Revenues (\$000) | \$282,545 | \$271,315 | \$243,712 | \$242,657 | \$246,58 |
| Outstanding Revenue Debt (\$000) | \$2,358,137 | \$2,310,261 | \$2,250,181 | \$2,301,253 | \$2,263,77 |
| Annual Debt Service (\$000) | \$175,010 | \$172,550 | \$167,966 | \$172,869 | \$179,21 |
| Annual Debt Service Coverage (x) | 1.6x | 1.6x | 1.5x | 1.4x | 1.4 |
| Cash on Hand | 676 days | 912 days | 937 days | 956 days | 920 day |
| Debt to Operating Revenues (x) | 5.5x | 5.4x | 5.5x | 5.5x | 5.5 |

Figures shown on a GAAP-basis. Revenue and O&M include GLWA wholesale operations and DWSD local retail operations. Source: Moody's Investors Service Exhibit 3

| Great Lakes Water Authority, MI Sewer Enterprise | | | | | |
|--|---|-------------|-------------|-------------|-------------|
| System Characteristics | | | | | |
| Asset Condition (Net Fixed Assets / Annual Depreciation) | 19 years | | | | |
| System Size - O&M (in \$000s) | \$255,908 | | | | |
| Service Area Wealth: MFI % of US median | 96.8% | | | | |
| Legal Provisions | | | | | |
| Rate Covenant (x) | 1.20 | | | | |
| Debt Service Reserve Requirement | DSRF funded at lesser of standard 3-prong test (Aa) | | | | |
| Management | | | | | |
| Rate Management | Aa | | | | |
| Regulatory Compliance and Capital Planning | A | | | | |
| Financial Strength | | | | | |
| | 2017 | 2018 | 2019 | 2020 | 202 |
| Operating Revenue (\$000) | \$557,396 | \$561,784 | \$550,959 | \$562,231 | \$559,812 |
| System Size - O&M (\$000) | \$206,540 | \$250,551 | \$244,468 | \$243,438 | \$255,908 |
| Net Revenues (\$000) | \$350,856 | \$311,233 | \$306,491 | \$318,793 | \$303,904 |
| Net Funded Debt (\$000) | \$3,144,592 | \$3,076,993 | \$3,093,347 | \$3,039,222 | \$2,937,898 |
| Annual Debt Service (\$000) | \$234,555 | \$232,281 | \$239,172 | \$245,783 | \$230,163 |
| Annual Debt Service Coverage (x) | 1.5x | 1.3x | 1.3x | 1.3x | 1.3 |
| Cash on Hand | 455 days | 460 days | 440 days | 496 days | 512 day |
| Debt to Operating Revenues (x) | 5.6x | 5.5x | 5.6x | 5.4x | 5.2) |

Figures shown on a GAAP-basis. Revenue and O&M include GLWA wholesale operations and DWSD local retail operations. *Source: Moody's Investors Service*

This publication does not announce a credit rating action. For any credit ratings referenced in this publication, please see the ratings tab on the issuer/entity page on www.moodys.com for the most updated credit rating action information and rating history.

Profile

The Great Lakes Water Authority (GLWA) is the regional wholesale provider of water and sewer services to southeast <u>Michigan</u> (Aa1 stable). The water enterprise treats water from Lake Huron, Lake St. Clair and the Detroit River and distributes treated water to a service area population of about 3.8 million. The sewer enterprise collects, treats and disposes of wastewater produced by a service area population of about 2.8 million. GLWA is an incorporated municipal authority, established in 2016, operating under the guidance of a six-member board, consisting of one appointee each of the counties of <u>Macomb</u> (Aa1 stable), <u>Oakland</u> (Aaa stable), and <u>Wayne</u> (A3 positive), two appointees of the Mayor of Detroit and one of the Governor of Michigan.

Detailed credit considerations

Service area and system characteristics: very large service area in southeast Michigan

The systems will continue to benefit from large service areas with broad and diverse customer bases. The regional water supply system covers 1,698 square miles in southeast Michigan, providing treated water to 112 communities and roughly 40% of the state's population. The sewer system is a little smaller; covering 944 square miles, providing wastewater services to about a third of the state's population across 79 communities.

The bulk of water and sewer revenue comes from wholesale contracts with suburban communities. Wholesale contracts generate roughly three quarters of water revenue and a little over half of sewer revenue. Detroit residents and businesses are retail customers of the Detroit Water and Sewerage Department (DWSD), which manages the system assets within the city as an agent of GLWA.

Water usage rates have fallen somewhat over the past five years. While that trend will likely stabilize, it is unlikely to materially reverse without an expansion of the system because of conservation efforts and the region's stagnant population.

Debt service coverage and liquidity: financial metrics likely to remain healthy

Both systems will likely continue to maintain solid annual debt service coverage and ample liquidity because of management's close monitoring of revenue targets and its ability to set rates. The authority recently approved a 3.7% water rate increase and a 2.4% sewer rate increase for fiscal 2023. A portion of the increase is to recover bad debt accrued by the City of Highland Park (unrated), which has historically had financial challenges and has not been fully paying its water and sewer bill. Consequently, some member communities have protested the increases, asking the state to intervene and to be held-harmless from the bad debt. It is unclear what role the state might play, if any, in arbitrating this dispute. In either event, the annual revenue impact for GLWA is pretty low: Highland Parks's estimated bad debt expense for fiscal 2023 is about \$1.3 million for the water system and \$5.4 million for the sewer.

The authority limits the annual growth in its water and sewer system revenue requirements to 4% to maintain a more affordable rate structure and it assumes 3% growth in its forecasts. Most revenue in both systems comes from fixed monthly wholesale charges (roughly 60% in the water system and 100% in the sewer), which enhances revenue reliability and dependability.

GLWA has maintained solid annual coverage of total senior lien, second lien and junior lien revenue debt service since its inception (Exhibit 1).

Liquidity

Liquidity is strong for both systems and will remain so despite planned spending for capital investments. Each system plans to finance the bulk of its annual capital improvement plan (CIP) with cash reserves over the next five years.

Unrestricted cash and investments in the water system were roughly \$415 million and about \$358 million in the sewer system at the close of fiscal 2021 (Exhibit 4). The two funds also have significant restricted cash assets held for budget stabilization, debt service and capital.

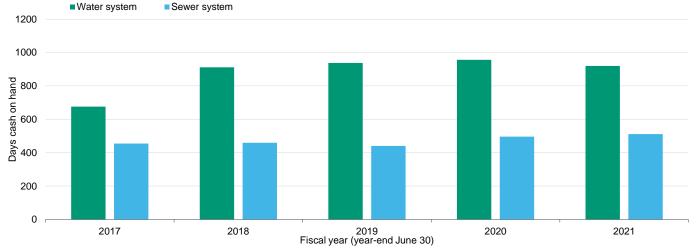
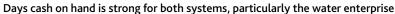


Exhibit 4



Source: Moody's Investors Service

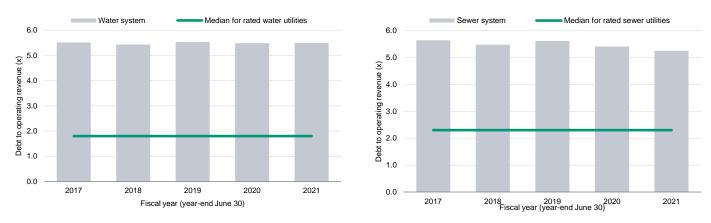
Debt and legal covenants: high debt burden could moderate with sustained revenue growth

Each system has a very high debt burden that will remain elevated because of high capital needs. Leverage metrics will likely remain stable because GLWA has control over its rates and it plans to cash fund most of its CIP. The CIP for fiscal 2023 through 2027 includes about \$966 million of water projects and \$762 million of sewer projects. The systems have a variety of capital needs, including reducing combined sewer overflow (CSO) and enhancing transmission and storage. The system will also likely need to build greater resilience to extreme wet-weather events over the long-term. The authority has historically had high nonrevenue water volume because of pipe leaks and breaks. Over the past five years, the authority has materially improved its percentage of water loss and other nonrevenue water down to 10.6% in fiscal 2021 from 19.3% in 2017.

The water and sewer systems' long-term debt leverage across all liens is materially higher than <u>sector medians</u> (Exhibit 5). GLWA had about \$5.2 billion of combined total revenue debt outstanding at the end of fiscal 2021, about \$2.3 billion for the water system and \$2.9 billion for the sewer.

Exhibit 5

Leverage metrics are much higher than US medians for both the water and sewer systems



Latest medians are for fiscal 2019 Source: Moody's Investors Service

Legal security

Water and sewer revenue bonds are backed by the net revenue of the respective systems. Legal provisions are solid and are the same for both systems. The rate covenant requires projected net revenue coverage of debt service equal to 120% for senior lien bonds, 110% for second lien bonds and 100% for any subordinate lien debt. Per the master bond ordinance, projected net revenue includes the revenue of the respective systems plus any estimated revenue increase from approved rate increases.

The money collected from regional wholesale and local retail customer payments are deposited to a lockbox, which is administered by a third-party trustee. Operations and maintenance (O&M) expenses are defined as cash transfers made to GLWA's and DWSD's respective O&M funds. The revenue and O&M expenses related to GLWA is reported in its segregated business funds while the revenue and expenses of DWSD are accounted for in Detroit's water and sewer funds, respectively. The bifurcated accounting requires adjustments from reported figures to assess rate covenant coverage under the master bond ordinance.

Senior and second lien bonds benefit from debt service reserve funds (DSRF) sized at the lesser of the standard three-prong test.

Debt structure

All of GLWA's water revenue debt and most of its sewer bonds are fixed rate. The sewer system has one series of variable rate debt: its Series 2006D bonds. The bonds are floating rate notes, are fully callable and make up a little less than 10% of sewer debt.

The water system holds about 44% of total GLWA debt, with roughly \$1.5 billion of senior lien bonds, \$653 million of second lien water revenue bonds and \$71 million of junior lien state revolving fund (SRF) loans. The remainder is held by the sewer system, inclusive of \$1.8 billion of senior lien bonds, \$736 million of second lien sewer revenue bonds and \$411 million junior lien state revolving fund (SRF) loans. The water debt will be fully retired by 2051 and sewer debt matures by 2049.

The authority helps to finance capital projects undertaken in the local systems by issuing bonds on behalf of the DWSD. The DWSDowed debt is accounted for as a contractual obligation receivable owed to the GLWA. Proportional allocation of debt was agreed upon and settled by the memorandum of understanding (MOU) dated June 27, 2018.

Debt-related derivatives

The GLWA is not party to any derivative agreements.

Pensions and OPEB

GLWA employees are participants in a defined contribution benefit plan, though many are scheduled to receive accrued pension benefits from the City of Detroit's frozen defined benefit General Retirement System (GRS). Pursuant to the City of Detroit's bankruptcy plan of adjustment, GLWA will contribute annually to GRS through fiscal 2023 to accelerate amortization of the GRS unfunded liability associated with the GLWA employees. A little less than half of the annual GRS payment is considered O&M, making it effectively senior to debt service. GLWA's allocated contribution was roughly \$31.9 million in fiscal 2021.

Beyond 2023, the GLWA's payments to GRS will be based on the actuarial needs of the plan and sized to amortize any unfunded liability associated with the GLWA employees. GLWA makes no payments toward accrued retiree healthcare liabilities because the City of Detroit's bankruptcy settlement eliminated those benefits. The GLWA established a new defined contribution retiree healthcare savings plan, resulting in no potential unfunded liability.

ESG considerations

Environmental

<u>Environmental considerations</u> are a material credit consideration for the systems. Climate change and extreme weather may have operational impacts, particularly on the sewer system. Major wet weather events, like those that occurred during the summer of 2021, can overwhelm the system's ability to store and process infiltration, causing detrimental impacts such as sewer backups and discharges because of CSOs.

The water system benefits from access to a vast amount of relatively easily treatable fresh water. The sewer system includes one of the largest single-site wastewater treatment plants in the world and treated water discharged from the plant is often cleaner than the surrounding water in the receiving body. Both systems are subject to extensive regulation pursuant to the federal Clean Water Act, the Clean Air Act, the Michigan Natural Resources and Environmental Protection Act and various administrative rules and regulations. The authority is in material compliance with all existing permits relating to the operation of the regional water and sewer systems.

Social

<u>Social considerations</u> such as population, labor force, income and education are material and can impact each system's underling economy, customer base, financial and leverage metrics. Population in the Detroit MSA grew a little over 2% between 2010 and 2020. The system's sizable service area and customer base provides a high level of diversity, balancing social challenges in portions of the customer base, such as high poverty areas in the City of Detroit. GLWA provides payment and conservation assistance to low-income retail customers through its Water Residential Assistance Program, which helps to avoid delinquencies and support revenue stability.

Governance

Governance considerations are an important factor in GLWA's credit profile. GLWA was created in the aftermath of the Detroit bankruptcy. It obtained possession and control of the city's water supply and sewage disposal systems via regional system leases (effective January 1, 2016) for an initial 40-year term and replaced the city as the obligor on all outstanding debt obligations related to the systems, pursuant to bondholder consent. Pursuant to the lease, the City of Detroit has irrevocably assigned its right, title and interest in all revenue of the sewer and water enterprises to GLWA. The lease will automatically extend to correspond with scheduled repayment of newly issued revenue debt. All revenues of both systems were assigned to GLWA. Payments from retail customers within the City of Detroit are deposited directly with the bond trustee.

GLWA is governed by a six-member board. The board has full authority to set service charges on municipal customers. Rates charged to retail customers in the City of Detroit are established by the city's Board of Water Commissioners pursuant to an agency agreement with GLWA. The lease agreement grants the GLWA board the ability to override the city's authority of retail rates and collections should the city not make adjustments sufficient to meet annual revenue requirements. All wholesale customers retain responsibility for levying local charges sufficient to cover costs charged by GLWA. Pursuant to the memorandum of understanding between GLWA and DWSD, GLWA assumes an annual increase of not more than 4% in the revenue requirements through fiscal 2025.

GLWA has demonstrated strong budget management since its inception, enhancing operational efficiencies and regional cooperation. GLWA dramatically reduced its workforce since its separation from DWSD. Each year GLWA conducts an extensive study of both its wholesale service charges and allocated annual revenue requirement to retail customers, with the purpose of adjusting revenue to reflect the cost of operations, depreciation expense and return on the rate base. Additionally, since system capacity exceeds demand, management is de-rating parts of its water treatment plants. This allows the water system to reduce capital costs while preserving flexibility to put the facilities back to use. © 2022 Moody's Corporation, Moody's Investors Service, Inc., Moody's Analytics, Inc. and/or their licensors and affiliates (collectively, "MOODY'S"). All rights reserved. CREDIT RATINGS ISSUED BY MOODY'S CREDIT RATINGS AFFILIATES ARE THEIR CURRENT OPINIONS OF THE RELATIVE FUTURE CREDIT RISK OF ENTITIES, CREDIT COMMITMENTS, OR DEBT OR DEBT-LIKE SECURITIES, AND MATERIALS, PRODUCTS, SERVICES AND INFORMATION PUBLISHED BY MOODY'S (COLLECTIVELY, "PUBLICATIONS") MAY INCLUDE SUCH CURRENT OPINIONS. MOODY'S DEFINES CREDIT RISK AS THE RISK THAT AN ENTITY MAY NOT MEET ITS CONTRACTUAL FINANCIAL OBLIGATIONS AS THEY COME DUE AND ANY ESTIMATED FINANCIAL LOSS IN THE EVENT OF DEFAULT OR IMPAIRMENT. SEE APPLICABLE MOODY'S RATING SYMBOLS AND DEFINITIONS PUBLICATION FOR INFORMATION ON THE TYPES OF CONTRACTUAL FINANCIAL OBLIGATIONS ADDRESSED BY MOODY'S CREDIT RATINGS. CREDIT RATINGS DO NOT ADDRESS ANY OTHER RISK, INCLUDING BUT NOT LIMITED TO: LIQUIDITY RISK, MARKET VALUE RISK, OR PRICE VOLATILITY. CREDIT RATINGS, NON-CREDIT ASSESSMENTS ("ASSESSMENTS"), AND OTHER OPINIONS INCLUDED IN MOODY'S PUBLICATIONS ARE NOT STATEMENTS OF CURRENT OR HISTORICAL FACT. MOODY'S PUBLICATIONS MAY ALSO INCLUDE QUANTITATIVE MODEL-BASED ESTIMATES OF CREDIT RISK AND RELATED OPINIONS OR COMMENTARY PUBLISHED BY MOODY'S ANALYTICS. INC. AND/OR ITS AFFILIATES. MOODY'S CREDIT RATINGS. ASSESSMENTS. OTHER OPINIONS AND PUBLICATIONS DO NOT CONSTITUTE OR PROVIDE INVESTMENT OR FINANCIAL ADVICE, AND MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS AND PUBLICATIONS ARE NOT AND DO NOT PROVIDE RECOMMENDATIONS TO PURCHASE, SELL, OR HOLD PARTICULAR SECURITIES. MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS AND PUBLICATIONS DO NOT COMMENT ON THE SUITABILITY OF AN INVESTMENT FOR ANY PARTICULAR INVESTOR. MOODY'S ISSUES ITS CREDIT RATINGS. ASSESSMENTS AND OTHER OPINIONS AND PUBLISHES ITS PUBLICATIONS WITH THE EXPECTATION AND UNDERSTANDING THAT EACH INVESTOR WILL. WITH DUE CARE. MAKE ITS OWN STUDY AND EVALUATION OF EACH SECURITY THAT IS UNDER CONSIDERATION FOR PURCHASE. HOLDING, OR SALE.

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