



AGENDA OF THE WATER COMMISSION

**MONDAY, MARCH 8, 2021, 8:30 AM
GREEN BAY WATER UTILITY
631 S Adams St**

A. Roll Call

B. Approval of the Agenda

C. Approval of Minutes

- I. Approval of Commission Meeting Minutes of February 8, 2021

D. Regular Business

- I. Approval of Filter Plant Residuals Planning Study
2. Financial Report - January 2021

E. Informational

- I. Cyber Security at Green Bay Water Utility
2. General Manager's Update

F. Adjournment

- I. Motion to Adjourn

G. Zoom Information

I.

Join Zoom Meeting

<https://zoom.us/j/94412257559?pwd=TnhvUTRTSEtsakUxK2lCQXg3Vjg2QT09>

Meeting ID: 944 1225 7559

Passcode: 051601

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+1 253 215 8782 US (Tacoma)

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Find your local number: <https://zoom.us/u/ac87vMLEvI>

- I. Join Zoom Meeting
<https://zoom.us/j/95157483339?pwd=OWlsZngwQ0E4MU05Si9kUVILSUZsQT09>

Meeting ID: 951 5748 3339
Passcode: 798043

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Meeting ID: 951 5748 3339
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- 1) **ACCESSIBILITY:** Any person wishing to attend who requires special accommodation because of a disability, should contact the City Safety Manager at 920-448-3125 at least 48 hours before the scheduled meeting time so that arrangements can be made.
- 2) **QUORUM:** Please take notice that a majority or quorum of the Common Council may attend this Water Commission meeting and will constitute a meeting of the Common Council for purposes of discussion and information gathering relative to this agenda.
- 3) **REPRESENTATION:** The party requesting the communication, or their representative, should be present at this meeting.



MINUTES OF THE WATER COMMISSION

**MONDAY, FEBRUARY 8, 2021, 8:30 AM
GREEN BAY WATER UTILITY
631 S Adams St**

A. ROLL CALL.

Commissioners Present: John Heugel, Jamie Wall, Doug Martin, Tom Karman, Elizabeth Wheat, Jacque Boyle, Kathy Lefebvre
Commissioners Excused: Kathryn Hasselblad-Pascal
Other: Attorney William Vande Castle, Brad Viegut of Baird
Utility Staff: Nancy Quirk, Jason Maes, Kristin Romanowicz, Russ Hardwick, Stephanie Rogers, Jessica Cortes, Brian Powell

B. APPROVAL OF THE AGENDA.

Motion by Wall, second by Martin to approve agenda as presented. Passed unanimously.

C. APPROVAL OF MINUTES.

I. Approval of Commission Meeting Minutes of January 11, 2021

Motion by Martin, second by Wall to approve meeting minutes as presented. Passed unanimously.

D. REGULAR BUSINESS.

1. Introduction of New Water Commissioners - Jacque Boyle & Tom Karman

General Manager Quirk introduced the newly approved Water Commissioners who were approved at Common Council on January 19, 2021. Tom Karman and Jacque Boyle introduced themselves to the Commission. Commissioners introduced themselves to new Commissioners Karman and Boyle.

2. Approval of Final Payment in the amount of \$87,813.30 to Express Excavating for Dredging of Sludge Lagoon No. 2

Motion by Martin, second by Wall to approve final payment in the amount of \$87,813.30 to Express Excavating for Dredging of Sludge Lagoon No. 2 as presented. Passed unanimously.

3. Approval of Recommendation of Vehicle Bids

Motion by Wall, second by Karman to approve vehicle recommendations as presented. Passed unanimously.

4. Approval of Green Bay Water Utility Addition/Renovation Bids

Operations Manager Powell presented the summary of bids for contract for Green Bay Water Utility Addition/Renovation, Miron Construction Co., Inc. won the bid with an amount of \$4,339,725. Motion by Wall, second by Martin to approve Green Bay Water Utility Addition/Renovation bid. Passed unanimously.

5. Approval of Resolution Relating to the Issuance of Water System Revenue Bonds

Business Manager Rogers and Brad Viegut of Baird presented the information on Bonding for Green Bay Water Utility Building Addition/Renovation project and pipe diver project. Motion by Martin, second by Karman to approve Resolution Relating to the Issuance of Water System Revenue Bonds. Passed unanimously.

6. Approval of Resolution Authorizing Execution of the Department of Natural Resources Principal Forgiven Financial Assistance Agreement

General Manager Quirk presented information on DNR Resolution Authorizing Execution of the Department of Natural Resources Principal Forgiven Financial Assistance Agreement. Motion by Wall, second by Boyle to recommend approval of resolution to Common Council Authorizing Execution of the Department of Natural Resources Principal Forgiven Financial Assistance Agreement. Passed unanimously.

7. Financial Report - Preliminary December 2020

Business Manager Rogers reviewed preliminary financial reports from December 2020. Financials are within expectations. No substantive issue of concern was identified. Motion by Karman, second by Wall to receive financials and place on file. Passed unanimously.

E. INFORMATIONAL.

I. Reported Injury Review

Human Resources Coordinator Cortes presented an overview of the 2019 and 2020 work related injuries and illness for the City of Green Bay and Water Utility.

2. General Manager's Update

General Manager Quirk's Update:

- Lead and copper sampling is currently being done. All samples to date are under threshold and we see no reason why all samples will not pass.
- Stephanie is working on getting audit material ready and completing the PSC report by deadline date.
- Raw water meters and finished water meters need to be calibrated over a 24-hour period.
- SPLASH study meeting took place last week with Central Brown County Water Authority. Topics included cross-connection control programs and opportunities for joint training.
- Nancy and Andrea have been writing articles for the League of Municipalities March "Water" issue.
- Writing article for WIAWWA on Lead & Copper rule updates.
- Local television news report done on flushing more fresh water in buildings that have not been used for a while, such as schools.

F. ADJOURNMENT.

I. Motion to Adjourn

Motion by Martin, second by Wall to adjourn meeting. Passed unanimously.

G. ZOOM INFORMATION



Green Bay Water Utility

MEMORANDUM

DATE: March 8, 2021
TO: Green Bay Water Commissioners
FROM: Nancy Quirk
RE: Approve Filter Plant Residuals Planning Study

Green Bay Water Utility aims to supply drinking water that exceeds the federal Lead and Copper Rule standards. Therefore, we undertook an aggressive lead service-line replacement program and studied the microbial-induced corrosion of finished water in the distribution system. In October 2020, GBWU replaced the last known lead service line in the system.

In 2020, we entered into a professional services agreement with Jacob's Engineering in Milwaukee. We initiated the Filter Plant Residuals Planning Study (Study) to investigate strategies to reduce organics' concentration in finished water, potentially contributing to copper corrosion in the distribution system, based on microbiological study findings.

Attached is the executive report of the analysis we performed to identify our best option to move forward. Project engineers for Jacob's will be at the commission meeting to present the information and answer any questions.

Executive Summary

To provide drinking water that exceeds the standards established in the federal Lead and Copper Rule, the Green Bay Water Utility (GBWU) undertook an aggressive lead service-line replacement program and studied the microbial-induced corrosion of finished water in the distribution system. In October 2020, GBWU replaced the last known lead service line in the system and initiated the Filter Plant Residuals Planning Study (Study) to investigate strategies to reduce the concentration of organics in finished water that are potentially contributing to copper corrosion in the distribution system, based on microbiological study findings.¹

GBWU retained Jacobs Engineering Group, Inc. (Jacobs) to conduct the Study to identify alternative Filter Plant residuals-handling strategies and evaluate alternative concepts to reduce potentially adverse water quality impacts of Filter Plant recycle flows.

Based on review of available data and information provided by GBWU, the following alternatives were identified for evaluation by the Study team:

- Alternative 1—Discharge Filter Plant Waste Streams to Sanitary Sewer
- Alternative 2—Treat Recycle Flows to Remove Organics and Solids
- Alternative 3—Discharge Recycle Flows to a Surface Water Body
- Alternative 4—Change Filter Plant Operations to Minimize Impacts of Recycling
- Alternative 5—Convert Sludge Lagoons to Permeable Ponds

Conceptual planning and design information was developed for each alternative to serve as the basis for the construction and 20-year net present value cost estimates listed in Table ES-1.

Table ES-1. Alternatives Conceptual Cost Estimates Summary

Cost	Alternative 1	Alternative 2	Alternative 3	Alternative 4	Alternative 5
Construction	\$6,260,000	\$1,750,000	\$2,280,000	TBD	\$210,000
20-year Operating NPV	\$26,590,000	\$1,530,000	\$1,840,000	TBD	\$840,000
Total 20-year NPV	\$32,850,000	\$3,280,000	\$4,120,000	TBD	\$1,050,000

TBD – to be determined; NPV – net present value

Alternative 1 has both the highest construction and operating cost. The high operating cost is largely due to approximately \$1,500,000 in annual sewer discharge fees. While very different options, Alternative 2 and Alternative 3 have similar construction and operating costs. A cost estimate for Alternative 4 can be prepared after further consideration of the possible treatment process change and potential full-scale testing at the Filter Plant. Alternative 5 has the lowest construction, operating, and 20-year NPV costs.

The alternatives were also evaluated by the project team on the basis of non-economic considerations including operations, maintenance, ease of permitting, presence of sufficient data to base decisions, and potential environmental impacts. Table ES-2 lists alternatives discussion highlights.

¹ See Study References: Water Quality Investigations, LLC. 2016, 2017, 2018a-c, and 2020.

Table ES-2. Alternatives Discussion Summary

Discussion Highlights
Alternative 1—Discharge Filter Plant Waste Streams to Sanitary Sewer
- Alternative 1 eliminates onsite management of Filter Plant waste streams and is the highest-cost alternative. Construction and maintenance of a new 6-mile force main will require obtaining new permanent easements and coordination with other property owners and local jurisdictions. - Discharging the Filter Plant waste streams to the City of Green Bay collection system at the nearest possible location will result in the need to routinely flush sewer system near the discharge location.
Alternative 2—Treat Recycle Flows to Remove Organics and Solids
Alternative 2 involves the treatment of Lagoon decant, a relatively small-volume flow with higher organics concentration. Given limited available information, treatment system design criteria would be developed after collection of additional decant flow, total organic carbon (TOC) and total suspended solids (TSS) data.
Alternative 3—Discharge Recycle Flows to a Surface Water Body
- Alternative 3 is feasible under a General Permit to Discharge under the Wisconsin Pollutant Discharge Elimination Service (WPDES) for Water Treatment and/or Conditioning. However, the Wisconsin Department of Natural Resources (WDNR) must define location-specific discharge requirements and practical limitations to a new permitted surface water discharge. The surface waters near the Filter Plant are subject to an ongoing Total Maximum Daily Load (TMDL) process. Local surface waters will be given the new allowable pollutant loadings under a final TMDL. - The nearest potential discharge locations are small creeks for which discharges from the plant could comprise most of the creek flow during portions of the year. GBWU does not want to advance an alternative that may have a relatively significant environmental impact.
Alternative 4—Change Filter Plant Operations to Minimize Impacts of Recycling
Evaluation of Alternative 4 found that with current operations and maintenance practices, Filter Plant finished water to the distribution system is consistently low in organics (about 1 milligram per liter TOC). A potential opportunity to further reduce finished water organics and subsequently distribution system biocorrosion may be accomplished by the addition of a limited amount of phosphorus upstream of filtration, to potentially enhance organics removal through biological filtration.
Alternative 5—Convert Sludge Lagoons to Permeable Ponds
Alternative 5 is feasible under a General Permit to Discharge under the WPDES for Water Treatment and/or Conditioning. However, WDNR must define location-specific discharge requirements and practical limitations to a new permitted groundwater discharge.

The Study recommendations include the following:

- Investigate the potential for enhanced organics removal through biological filtration with the addition of phosphorus upstream of filtration as a nutrient supplement. This could be done on a pilot-scale or full-scale with WDNR approval. Impacts on water quality, filtration performance, and turbidity removal need to be considered, as well as organics removal.
- Prior to further consideration of treating Lagoon decant, determine whether the flow stream can be eliminated or greatly reduced by a permitted discharge to groundwater via permeable ponds.
- Prior to designing modifications to the Filter Plant waste-stream-handling systems, gather additional data related to waste stream flows and water quality. With additional data, the performance of the Washwater Recycle Basins and the Lagoons can be better defined and reliable Filter Plant drain, and recycle flow and mass balances can be developed.

GREEN BAY WATER UTILITY

CASH POSITION

January 31, 2021

PRELIMINARY

12/31/2020

1/31/2021

UNRESTRICTED CURRENT ASSETS

Cash & Investments - Operation & Maintenance

Local Govt. Investment Pool

\$ 103,838 \$ 103,847

Associated Bank Checking

6,239,776 4,107,109

Working Cash Funds - Petty Cash

1,700 1,700

Total Cash & Investments - Operation & Maintenance

6,345,314 4,212,656

RESTRICTED CURRENT ASSETS

Cash & Investments - Bond Redemption

Certificates of Deposit - Bond Redemption

860,000 1,290,000

Associated Bank Money Market Account

5,000 5,001

Total Cash & Investments - Bond Redemption

865,000 1,295,001

RESTRICTED LONG-TERM ASSETS

Cash & Investments - Debt Reserve

Associated Trust Money Market

20,409 33,987

Associated Trust Certificates of Deposit

537,617 536,657

Associated Trust Municipal Bonds

5,870,670 5,870,592

Total Cash & Investments - Debt Reserve

6,428,696 6,441,235

TOTAL CASH POSITION

\$ 13,639,011 \$ 11,948,891

GREEN BAY WATER UTILITY

BALANCE SHEET

January 31, 2021

	PRELIMINARY	
	AS OF	AS OF
	<u>12/31/2020</u>	<u>1/31/2021</u>
<u>ASSETS</u>		
Current Assets		
O & M Cash & Investments	\$ 6,345,314	\$ 4,212,656
Lead Service Replacement Receivable	67,620	67,620
Interest Receivable	86	184
Accounts Receivable	7,056,820	7,093,257
Inventories	528,064	493,167
Prepayments	63,710	2,405,144
Total Current Assets	<u>14,061,614</u>	<u>14,272,026</u>
Property, Plant & Equipment		
Original Cost	238,968,229	238,977,234
Less: Accumulated Depreciation	<u>(94,170,168)</u>	<u>(94,584,866)</u>
Net Plant	144,798,061	144,392,369
Construction in Progress	292,513	364,488
Total Plant & Equipment	<u>145,090,574</u>	<u>144,756,857</u>
Restricted Assets		
Debt Reserve Fund	6,428,697	6,441,235
Bond Redemption Fund	865,000	1,295,001
Accrued Interest	<u>38,709</u>	<u>34,049</u>
Total Restricted Assets	<u>7,332,406</u>	<u>7,770,284</u>
Other Assets		
Unamortized Ashwaubenon Booster	1,380,259	1,369,305
Unamortized Wrightstown Loan/Grant	474,750	472,113
Unamortized Loss on Refunding	426,632	410,601
Net Pension Asset	0	0
Deferred Outflows-Pension	<u>2,471,155</u>	<u>2,471,155</u>
Total Other Assets	<u>4,752,797</u>	<u>4,723,174</u>
TOTAL ASSETS	<u>\$ 171,237,390</u>	<u>\$ 171,522,341</u>

GREEN BAY WATER UTILITY**BALANCE SHEET**

January 31, 2021

Page 2

PRELIMINARY**AS OF****12/31/2020****AS OF****1/31/2021****LIABILITIES & FUND EQUITY****Current Liabilities**

Accounts Payable	\$ 545,071	231,706
Sewer Billings Payable	2,990,740	2,922,122
Storm Water Billings Payable	1,523,368	1,549,518
Accrued Payroll, Vacation & Sick Leave Pay	701,137	531,819
Accrued Taxes	52,913	52,913
Total Current Liabilities	<u>5,813,229</u>	<u>5,288,078</u>

Other Liabilities

Net Pension Liability	910,735	910,735
Deferred Outflows-Pension	1,262,931	1,262,931
Total Other Liabilities	<u>2,173,666</u>	<u>2,173,666</u>

Payable from Restricted Assets

Current Portion of Long-Term Debt	3,775,000	3,775,000
Accrued Interest	236,698	353,891
Total Restricted Payables	<u>4,011,698</u>	<u>4,128,891</u>

Long-Term Debt - Net of Premiums & Discounts

<u>40,285,463</u>	<u>40,264,253</u>
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TOTAL LIABILITIES

<u>52,284,056</u>	<u>51,854,887</u>
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FUND EQUITY**Contributed Capital**

City of Green Bay	<u>736,907</u>	<u>736,907</u>
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Earned Surplus

Restricted	3,320,708	3,641,394
Unrestricted	114,895,720	115,289,153
Total Earned Surplus	<u>118,216,428</u>	<u>118,930,547</u>

TOTAL FUND EQUITY

<u>118,953,335</u>	<u>119,667,454</u>
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TOTAL LIABILITIES & FUND EQUITY

<u>\$ 171,237,390</u>	<u>\$ 171,522,341</u>
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GREEN BAY WATER UTILITY
INCOME SUMMARY
January 31, 2021

	<u>2021 BUDGET</u>	<u>BUDGET THRU JANUARY</u>	<u>ACTUAL AS OF 1/31/2021</u>	<u>TOTAL BUDGET REMAINING VARIANCE</u>
TOTAL OPERATING REVENUES	\$ 23,895,000	\$ 1,991,250	\$ 1,991,165	\$ (21,903,835)
OPERATING EXPENSES				
Pumping	3,046,712	253,893	25,984	3,020,728
Water Treatment	1,412,655	117,721	54,404	1,358,251
Transmission & Distribution	3,549,210	295,768	119,206	3,430,004
Customer Accounts	985,016	82,085	185,132	799,884
Administrative & General	11,521,014	960,085	791,074	10,729,940
Total Operating Expenses	<u>20,514,607</u>	<u>1,709,551</u>	<u>1,175,800</u>	<u>19,338,807</u>
Operating Profit (Loss)	3,380,393	281,699	815,366	(2,565,027)
Interest & Miscellaneous Income	1,672,312	139,359	10,766	(1,661,546)
Interest Expense	<u>1,766,003</u>	<u>147,167</u>	<u>112,013</u>	<u>1,653,990</u>
NET INCOME (LOSS)	<u>\$ 3,286,702</u>	<u>\$ 273,892</u>	<u>\$ 714,119</u>	<u>\$ (2,572,583)</u>

GREEN BAY WATER UTILITY
INCOME & EXPENSE COMPARISON
BUDGET TO ACTUAL
January 31,2021

	BUDGET THRU JANUARY	ACTUAL AS OF 1/31/2021	DOLLAR VARIANCE	PERCENT VARIANCE
OPERATING REVENUES				
Residential & Apartment	\$ 768,333	\$ 601,031	\$ (167,302)	-21.8%
Commercial & Restaurant	192,917	281,150	88,234	45.7%
Industrial	441,667	530,306	88,640	20.1%
Municipal	38,750	26,072	(12,678)	-32.7%
Sales to General Customers	1,441,667	1,438,559	(3,107)	-0.2%
Sales for Resale - Ashwaubenon	256,250	261,779	5,529	2.2%
Sales for Resale - Scott	8,333	6,965	(1,369)	-16.4%
Sales For Resale - Hobart	31,250	24,303	(6,947)	-22.2%
Sales for Resale - Wrightstown	14,167	41,132	26,965	190.3%
Public Fire Protection	115,000	115,480	480	0.4%
Private Fire Protection	12,917	-	(12,917)	-100.0%
Sewer & Stormwater Portion of Expenses	99,583	99,583	(0)	0.0%
Penalties	12,083	3,365	(8,719)	-72.2%
TOTAL OPERATING REVENUES	1,991,250	1,991,165	(85)	0.0%
OPERATING EXPENSES				
<u>PUMPING EXPENSE</u>				
Purchased Water (602)	583	-	583	100.0%
Maint of Intakes (613)	-	-	0	XXX
Maint of Supply Mains (616)	136,153	1,892	134,262	98.6%
Pumping Operation Supervision (620)	4,109	3,617	492	12.0%
Power Purchased for Pumping (623)	60,417	5,916	54,501	90.2%
Pumping Labor & Expense (624)	5,661	2,896	2,765	48.8%
Miscellaneous Pumping Expense (626)	6,446	1,763	4,683	72.7%
Pumping Maintenance Supervision (630)	5,194	953	4,241	81.7%
Maintenance of Pumping Structures (631)	21,073	4,016	17,057	80.9%
Maintenance of Power Prod Equip (632)	667	417	250	37.4%
Maintenance of Pumping Equipment (633)	13,590	4,515	9,075	66.8%
TOTAL PUMPING EXPENSE	253,893	25,984	227,909	89.8%
<u>WATER TREATMENT EXPENSE</u>				
Treatment Operations Supervision (640)	6,163	2,916	3,246	52.7%
Chemicals (641)	25,417	1,150	24,267	95.5%
Treatment Operations (642)	55,727	31,110	24,617	44.2%
Miscellaneous Water Treatment (643)	11,536	6,182	5,354	46.4%
Treatment Maintenance Supervision (650)	2,641	1,538	1,103	41.7%
Maint of Treatment Structures (651)	2,670	840	1,830	68.5%
Maint of Treatment Equipment (652)	13,568	10,668	2,900	21.4%
TOTAL WATER TREATMENT EXPENSE	117,721	54,404	63,317	53.8%
<u>TRANSMISSION & DISTRIBUTION EXPENSE</u>				
Stores Expense (163)	-	2,812	(2,812)	XXX
Unallocated Vehicle & Equip Expense (184)	-	(46,930)	46,930	XXX
Distribution Operation Supervision (660)	18,552	8,972	9,580	51.6%
Transmission & Distribution Line Expense (662)	33,301	7,473	25,828	77.6%
Meter Expense (663)	15,676	8,748	6,928	44.2%
Customer Installation Expense (664)	7,119	3,469	3,650	51.3%
Miscellaneous Distribution Expense (665)	19,213	13,720	5,493	28.6%
Maintenance of Reservoirs & Standpipes (672)	2,301	698	1,604	69.7%
Maintenance of Mains (673)	140,035	58,413	81,622	58.3%
Private Services (674)	-	1,150	(1,150)	0.0%
Maintenance of Services (675)	36,647	41,126	(4,480)	-12.2%
Maintenance of Meters (676)	9,860	12,210	(2,350)	-23.8%
Maintenance of Hydrants (677)	11,886	7,346	4,540	38.2%
TOTAL TRANSMISSION & DISTRIBUTION EXPENSE	294,589	119,206	175,383	59.5%
<u>CUSTOMER ACCOUNTS EXPENSE</u>				
Meter Reading Expense (902)	2,890	1,086	1,804	62.4%
Customer Records & Collection Expense (903)	77,695	184,041	(106,346)	-136.9%
Uncollectible Accounts (904)	333	-	333	100.0%
Conservation/Educational Expense (906)	1,167	4	1,163	99.7%
TOTAL CUSTOMER ACCOUNTS EXPENSE	82,085	185,132	(103,047)	-125.5%

GREEN BAY WATER UTILITY
INCOME & EXPENSE COMPARISON
BUDGET TO ACTUAL
January 31, 2021

	BUDGET THRU JANUARY	ACTUAL AS OF 1/31/2021	DOLLAR VARIANCE	PERCENT VARIANCE
<u>ADMINISTRATIVE & GENERAL EXPENSE</u>				
Depreciation Expense (403 & 426)	\$ 455,120	\$ 384,561	\$70,559	15.5%
Amortization of Non-Utility Plant (405)	10,954	10,954	(0)	0.0%
Taxes (408)	241,172	225,139	16,033	6.6%
Administrative & General Salaries (920)	59,028	28,301	30,727	52.1%
Office Supplies & Expense (921)	7,833	3,006	4,827	61.6%
Outside Services Employed (923)	44,617	11,044	33,573	75.2%
Property Insurance (924)	6,625	-	6,625	100.0%
Injuries & Damages (925)	5,209	-	5,209	100.0%
Employee Pension & Benefits (926)	108,336	95,488	12,848	11.9%
Regulatory Commission Expense (928)	417	-	417	100.0%
Miscellaneous General Expense (930)	8,583	27,545	(18,961)	-220.9%
Maintenance of General Plant (932)	12,190	5,036	7,155	58.7%
TOTAL ADMINISTRATIVE & GENERAL EXPENSE	960,085	791,074	169,011	17.6%
 TOTAL OPERATING EXPENSES	 1,708,372	 1,175,800	 532,572	 31.2%
 OPERATING PROFIT	 282,878	 815,366	 532,488	 188.2%
 <u>MISCELLANEOUS INCOME & (EXPENSE)</u>				
Interest Income-Operating Accounts (419)	19,167	1,529	(17,638)	-92.0%
Interest Income-Debt Accounts (429)	47,729	12,798	(34,931)	-73.2%
Misc Income/Contributed Capital (421)	41,667	-	(41,667)	-100.0%
Other Income (415, 416, 471, 472, 474)	30,797	1,535	(29,262)	-95.0%
Covid - 19 Labor expenses (880's)	-	(5,096)	(5,096)	XXX
TOTAL MISC INCOME & (EXPENSE)	139,359	10,766	(128,593)	-92.3%
 INTEREST EXPENSE (427, 428, 429)	 147,167	 112,013	 35,154	 23.9%
 NET INCOME (LOSS)	 \$ 275,071	 \$ 714,119	 \$ 439,048	 159.6%



Green Bay Water Utility

MEMORANDUM

DATE: March 8, 2021
TO: Green Bay Water Commissioners
FROM: Nancy Quirk
RE: Cyber Security at Green Bay Water Utility

On Friday, February 5, 2021, a hacker initiated an attack on an Oldsmar, Florida water treatment facility that briefly adjusted sodium hydroxide levels from 100 parts per million to 11,100 parts per million. This attack occurred about 15 miles from the location of and two days before the Super Bowl. If successful, the attack would have increased sodium hydroxide to a hazardous level in the water supply. Fortunately, a vigilant employee saw the intrusion attempt as it was occurring and stopped it.

We convened our internal emergency management team following this report to review our internal cybersecurity and emergency response protocols associated with a chemical added to our water supply. We concluded that we have excellent safeguards in place.

Our IT Director and the team will summarize our findings to assure you that we take this type of threat very seriously and confirm that we have multiple measures to ensure a safe water supply.