

# 2022 | ANNUAL REPORT

**NEW Water**  
*The brand of the Green Bay  
Metropolitan Sewerage District*





“

*We love what NEW Water is doing... they are natural born leaders in clean water.*

*~ Wisconsin Department of Natural Resources (WDNR) Secretary Preston Cole*

”



Image captions: State and local community leaders convened to celebrate water on the anniversary of the 50th year of the Clean Water Act and the 90th year of NEW Water's service to the community.

## Celebrating Water

Two important milestones were recognized in 2022: NEW Water's 90th year of serving the community and the 50th year of the Clean Water Act. To celebrate, NEW Water convened community partners at the Brown County STEM Innovation Center, located on the University of Wisconsin-Green Bay (UWGB) campus. NEW Water's Executive Director Tom Sigmund talked about the significance of the Clean Water Act for both our clean water sector, as well as for its impact to improve waterways across the United States. Community partners joined the festivities and congratulated NEW Water on 90 years of service.



“

*Congratulations to everyone within NEW Water, to provide the community the assurance that... infrastructure is available to make sure that we are all moving our community forward, and we have access to clean and reliable water.*

*~ Brown County Executive  
Troy Streckenbach*

”

Image above, left to right: Brown County Executive Troy Streckenbach; UWGB Dean of the College of Science, Engineering, and Technology John Katers; NEW Water Executive Director and National Association of Clean Water Agencies President Tom Sigmund; UWGB Chancellor Michael Alexander; WDNR Secretary Preston Cole; and Wisconsin Senator Rob Cowles.







Image captions: Aging clarifier and equipment in need of replacement.



Image left: Tom Sigmund appeared on "Newsmaker Sunday with Tom Zalaski." Sigmund explained that the Liquids Facility Plan is a significant capital investment for the community, and why it is needed.



Image captions: NEW Water hosted public information meetings to inform the community about the importance of investing. An aerial view of NEW Water's Green Bay Facility liquids process.

## Community Service: Now, and for the Future

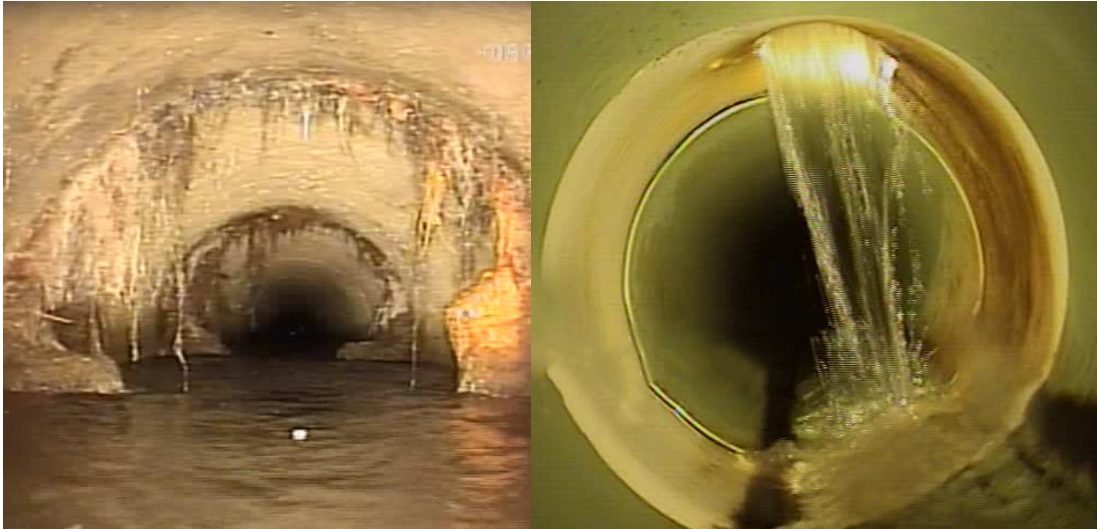
In 2022, NEW Water continued outreach to the community to engage them on the importance for our Liquids Facility Plan. The Liquids Facility Plan is intended to guide improvements in our wastewater treatment facilities to meet the current and future needs of the communities we serve.

Community outreach enabled great discussions about the importance of investing in these services, which are used every day, yet not often thought about. Outreach included numerous presentations, facility tours, media engagement, question and answer sessions, and public information meetings.

Objectives of the plan include a 20-year Capital Improvement Plan, and a 50-year vision to provide long-term context for recommended improvements, to ensure continuation of reliable service. The plan includes a holistic analysis of the facilities, alternatives to provide for aging infrastructure replacement, increased energy efficiency, increased resource recovery, increased capacity that will allow NEW Water to meet future regulations, and provide for community growth.

The Liquids Facility Plan was adopted by NEW Water's Commission and submitted to the WDNR in 2022.

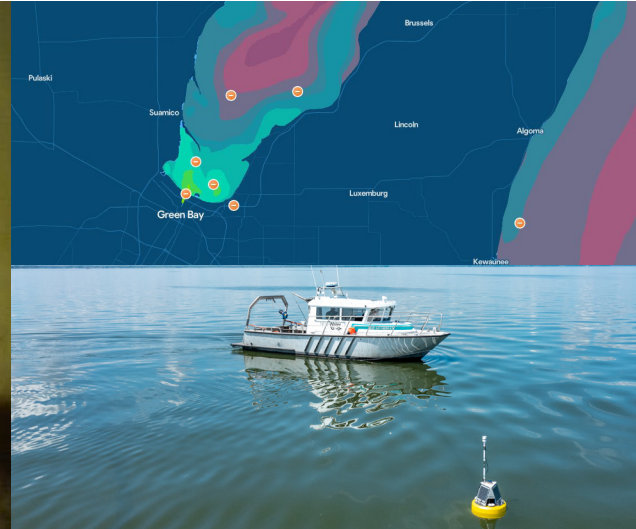




*Image captions: Tree root intrusion and a likely illicit sump pump connection discharging into the pipe are examples of Inflow and Infiltration.*

## Clear Water

During wet weather events, NEW Water receives upwards of three to five times the normal amount of water coming through its system and into its facilities to be treated, and that's not because people are flushing their toilets more frequently. This phenomenon known as Inflow and Infiltration, or I&I, is a wicked problem with no easy solution. When clear water enters the sanitary sewer system through a variety of avenues, including improper sump pump and foundation drain connections to the sanitary sewer, tree root intrusion through cracks in sewer mains and laterals, and more. Each springtime in Northeast Wisconsin, the I&I problem is especially challenging, when the ground becomes saturated with melting snow. The path the community is currently on regarding I&I is unsustainable, and doing nothing is not an option. In 2022, NEW Water continued to convene a Technical Advisory Group to advise NEW Water on the development of a regional I&I Reduction Program to begin addressing these issues to ensure wastewater conveyance and treatment needs of the communities are met.



*Image captions: To bring data collection into a new era, two long-term monitoring stations were upgraded to collect (near) real-time data to help aid in understanding our waters. This data is public and available on NEW Water's website.*

## Aquatic Monitoring Program

Through the Aquatic Monitoring Program, NEW Water has been continuously monitoring water quality for more than 37 years by taking samples from 34 different stations located throughout the lower Fox River, East River, and the Bay of Green Bay. Water quality parameters of interest include measuring phosphorus and total suspended solids. To expand upon the extensive database and aid in the understanding of our waters, two long-term monitoring stations were upgraded into a new era of (near) real-time data collection to better tell the story about water quality. This includes the Fox River Monitoring Station situated at the mouth of the Fox River, aided by a mini-grant from Great Lakes Observing System. The other is the Green Bay Entrance Light, a small yellow buoy situated in lower Green Bay. Both capture water quality data parameters such as water temperature, dissolved oxygen, chlorophyll, and more.







Image captions: The pipe to deposit NEW Water's Green Bay Facility effluent, or water we discharge into the Fox River, is located several feet beneath the surface of water and can be seen mixing into the Fox River.

## Cooling Study Launched

A “dissipative cooling study” (dissipative: The process of gradually disappearing or losing energy, for example by cooling down.) that analyzed NEW Water’s effluent and temperature impact on the Fox River at the Green Bay Facility outfall was recently approved by WDNR staff. As a result of this study, a thermal limits requirement will be removed from our WDNR authorized Wisconsin Pollution Discharge Elimination System (WPDES) permit. Had this remained as part of our permit requirements, additional treatment to lower the temperature of the effluent may have been required.



Image captions: Representing different implementations of conservation practices.

## NEW Watershed Program

The NEW Watershed Program in Ashwaubenon Creek and Dutchman Creek (ACDC) is a long-term Adaptive Management Program developed to address area water quality concerns while providing a cost-effective, alternative compliance option for NEW Water’s wastewater discharge permit with the WDNR. Since the program started, 55 structural practices have been installed and over 1,780 acres of operational practices implemented in the rural areas of ACDC. The program works diligently to listen to and collaborate with landowners, operators, community leaders, and residents to identify the conservation practices to achieve their goals while reducing the amount of phosphorous and sediment from reaching waterways in Northeast Wisconsin.

“NEW Water has been very easy to work with. They were open to our suggestions, and we were open to their suggestions, so we worked together as a team.”  
 ~ Mark VanAsten, dairy farmer with operations in the Ashwaubenon Creek and Dutchman Creek (ACDC) watersheds





Our #1 Asset: Our Team

In 2022,  
NEW Water achieved  
**100% PERMIT  
COMPLIANCE**  
for 20 years!

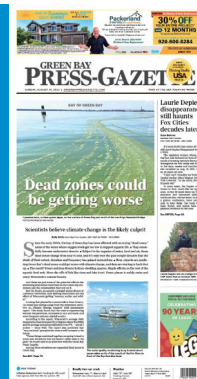




Image captions: Community outreach is the bridge with our many audiences to achieve an understanding of the essential service we provide each day.



Image captions: Leveraging the power of brand, partnerships, story to inform, engage, and to inspire our community.



## Community Outreach

NEW Water harnesses community outreach to better tell our story, to engage our many partners, audiences, and community shareholders in protecting public health and our precious Wisconsin waters. In 2022, NEW Water hosted an annual STEAM Superheroes Camp with the Greater Green Bay Boys & Girls Club, earned 91 media spots; reached approximately 11,500 people through talks, events, and tours. We also honored our former longtime Commission President, Dr. Harold "Jack" Day, Professor Emeritus from UWGB, with a Water Champion Award in recognition of his many years of service and commitment to protecting Wisconsin's waters.



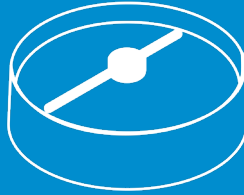
## Facts & Figures

Proudly serving  
Northeast Wisconsin  
since

**1931**

**2** treatment  
facilities

COVERING A  
**285** square-mile  
service area



— **1,206** —  
**MANHOLES**  
in our service area

**MORE THAN 4,150** Digger's Hotline calls  
handled, to help ensure safe  
digging in our service area

**4,379**

work orders to  
keep our processes  
running smoothly



**OVER 100** professionals  
working to protect  
public health and  
the environment

SERVING  
**15**  
municipalities

**414,441**  
FEET OF PIPE  
televised

**14,773,676,000**

GALLONS  
OF CLEAN  
WATER

returned to the Fox River from NEW Water's Green Bay and De Pere Facilities



**15,012**

MEGAWATT HOURS (MWH)

of electricity produced at the Green Bay Facility

**119,906**  
samples analyzed



**\$208,655**  
received from grants



**3RD**

largest wastewater  
facility in Wisconsin



**WORKING  
FOR YOU**

24 hours a day,  
7 days a week,  
365 days a year



## Teamwork to Serve Our Community

*We would like to express gratitude to all the NEW Water Team for their dedication and service.*

### New Hires

**Michael Legois** - Maintenance Mechanic

**Tyler Biese** - Staff Engineer

**Brenda Thompson** - Administrative  
Assistant

**Todd Paral** - Electrical & Instrumentation  
(E&I) Technician

**Harold Armstrong** - Information Technology  
(IT) Manager

**Roni Bach** - Administrative Services  
Supervisor

**Emily Tietyen** - Human Resources (HR)  
Manager

**Gregory Ashauer** - IT Manager

**Ethan Maule** - Operator II

### Retirements

**Richard Marcott** - Field Services Technician

**Matthew Grassel** - E&I Technician

**Jean Van Sistine** - Administrative Services  
Supervisor

**Jeffrey Czypinski** - IT Manager

### Job Changes

**Trisha Brown** - HR Manager to HR/Payroll  
Specialist Limited Term Employee

**Megan Obry** - Operator II to Operator III

**Austin Charniak** - Operator II to Operator III

**Reece Glish** - Operator II to Operator III

**Beth Clausen** - Accounting Manager to  
Director of Business Services

**Gabriel Elsen** - Operator II to Operator III

**Emerging Utility Leaders Program.** Congratulations to the 2022 program graduates Angela Kowalzek-Adrians, Jake Kehring, and Todd Wanta.

**NEW Water Peer Awards.** In 2022, the **Peer Excellence Award** went to Lisa Sarau, for excellence in adhering to NEW Water's cultural attributes of Safety, Respect, Team, and Environment. The **Jack Day Award** went to Sharon Thiesen, for honoring the spirit and commitment of visionary Dr. Harold "Jack" Day, former NEW Water Commission President.

**Green Bay Conservation Partners Award.** In 2022, NEW Water's Watershed Specialist, Ben Young, received second place for his drone photography of the Dutchman Creek watershed.

## NEW Water Leadership

*We would like to thank Commissioner Hoffmann, Trisha Brown, and Brian Vander Loop for their many years of dedication and service.*



### Commission

*Row one, left to right:*

**Kathryn Hasselblad**, President,  
*Term Ends: 12/31/26*

**James Blumreich**, Secretary,  
*Term Ends: 12/31/24*

**Tom Meinz**, Vice President,  
*Term Ends: 12/31/23*

**Mark Tumpach**, Vice President,  
*Term Ends: 12/31/25*

**Lee Hoffmann**, Vice President,  
*Term Ends: 12/31/22*

### Executive Staff

*Row two, left to right*

**Thomas W. Sigmund, P.E.**, Executive Director

**Patrick Wescott**, Director of Operations

**Nathan Qualls**, Director of Technical Services

**Trisha Brown**, Human Resources Manager (*January - April*)

**Emily Tietyen**, Human Resources Manager (*April - December*)

**Brian Vander Loop**, Director of Business Services

**Jeff Smudde**, Director of Environmental Programs

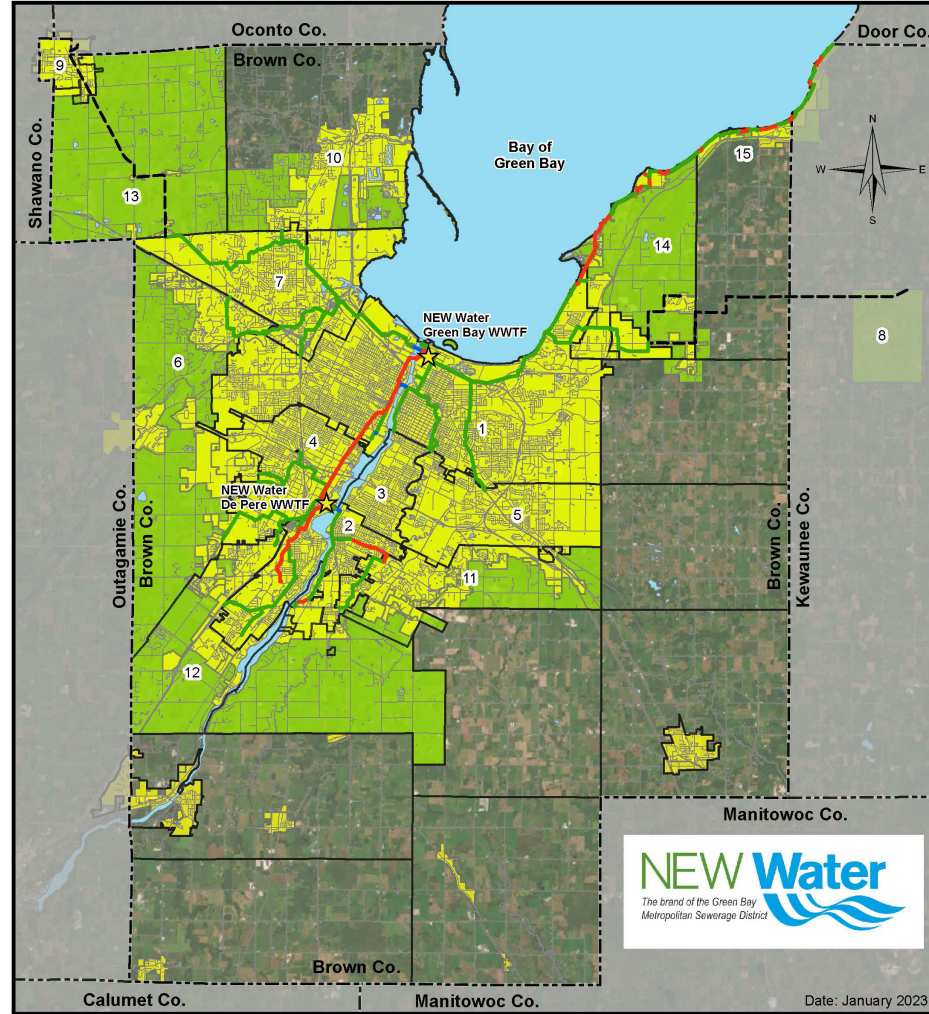


**OPERATING REVENUES**

	2022	2021
User fees - municipal waste	\$40,091,938	\$38,809,201
User fees - mill waste	3,724,410	2,264,402
Capital revenue - mills	2,138,332	2,129,745
Other revenues	1,336,598	1,482,668
<b>Total operating revenues</b>	<b>47,291,278</b>	<b>44,686,016</b>

**OPERATING EXPENSES**

Salaries and wages	8,795,655	8,863,613
Fringe benefits	2,491,892	2,268,607
Employee development	111,069	76,804
Travel and meetings	61,544	13,291
Power	2,521,670	1,868,549
Natural gas and fuel oil	447,613	425,079
Chemicals	2,174,438	1,371,956
Maintenance - plant	1,787,959	2,347,948
Maintenance - interceptors	283,072	261,065
Contracted services	3,004,625	3,559,300
Insurance	437,013	385,373
Solid waste disposal	501,379	382,096
Office related expenses	707,235	606,443
Supplementary expenses	870,636	571,794
<b>Subtotal</b>	<b>24,195,800</b>	<b>23,001,916</b>
Depreciation	13,817,564	13,891,830
<b>Total operating expenses</b>	<b>38,013,364</b>	<b>36,893,746</b>
<b>Operating income</b>	<b>\$9,277,914</b>	<b>\$7,792,270</b>

**LEGEND**

- Gravity Sewer
- Force Main Sewer
- Siphon Sewer
- Sewer By Others
- Roads
- Municipal Boundaries
- NEW Water Annexed Area
- Brown Co. Sewer Service Area
- Adjacent Counties
- River/Bay

**Municipal Customers**

1. City of Green Bay
2. City of De Pere
3. Village of Allouez
4. Village of Ashwaubenon
5. Village of Bellevue
6. Village of Hobart
7. Village of Howard
8. Village of Luxemburg
9. Village of Pulaski
10. Village of Suamico
11. Town of Ledgeview Sanitary District #2
12. Town of Lawrence - Utility District
13. Pittsfield Utility District
14. Scott Municipal Utility
15. Dyckesville Sanitary District

The financial statement is for information purposes only and is not intended to represent full financial disclosures. Complete financial statements and related notes are available on NEW Water's website or available upon request.



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*Protecting our most valuable resource, water*

[www.newwater.us](http://www.newwater.us)

