



# City of Madison

City of Madison  
Madison, WI 53703  
[www.cityofmadison.com](http://www.cityofmadison.com)

## Agenda - Approved WATER UTILITY BOARD

*Consider: Who benefits? Who is burdened?  
Who does not have a voice at the table?  
How can policymakers mitigate unintended consequences?*

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Tuesday, April 22, 2025

4:30 PM

119 E. Olin Ave.

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The City of Madison is holding the Water Utility Board Meeting in person.

\*\*\*To register to speak on an item, you will do so in person at the meeting. Please arrive early if you plan to register to speak.\*\*\*

Written Comments: You can send comments on agenda items to [waterutilityboard@cityofmadison.com](mailto:waterutilityboard@cityofmadison.com)

If you need an interpreter, translator, materials in alternate formats or other accommodations to access this service, activity or program, please call the phone number below at least three business days prior to the meeting.

Si necesita un intérprete, un traductor, materiales en formatos alternativos u otros arreglos para acceder a este servicio, actividad o programa, comuníquese al número de teléfono que figura a continuación tres días hábiles como mínimo antes de la reunión.

Yog hais tias koj xav tau ib tug neeg txhais lus, ib tug neeg txhais ntawv, cov ntawv ua lwm hom ntawv los sis lwm cov kev pab kom siv tau cov kev pab, cov kev ua ub no (activity) los sis qhov kev pab cuam, thov hu rau tus xov tooj hauv qab yam tsawg peb hnuv ua hauj lwm ua ntej yuav tuaj sib tham.

For accommodations, contact: Jody Berndt, (608) 206-1718, [jberndt@madisonwater.org](mailto:jberndt@madisonwater.org).

**CALL TO ORDER / ROLL CALL**

**APPROVAL OF MINUTES**

Meeting minutes for 3/26/25:  
<https://madison.legistar.com/calendar.aspxhttp://madison.legistar.com/Calendar.aspx>

**PUBLIC COMMENT**

1. [16738](#) General Public Comment

**DISCLOSURES AND RECUSALS**

Members of the body should make any required disclosures or recusals under the City's Ethics Code.

**NEW BUSINESS**

2. [87970](#) Wisconsin Waterworks Excellence Project  
**Attachments:** [Item 2 - Memo - WI Waterworks Excellence Report.pdf](#)  
[Item 2 - Attachment A - 2024 MWU Report Card.pdf](#)  
[Item 2 - Attachment B - WSJ Article Madison Gets High Marks.pdf](#)
3. [87971](#) Water Quality Report  
**Attachments:** [Item 3 - Memo - 2024 Water Quality Report.pdf](#)  
[Item 3 - Attachment A - Watch List April 2025.pdf](#)  
[Item 3 - Attachment B - Lab Results Summary April 2025.pdf](#)
4. [87972](#) DRAFT 2024 Madison Water Utility Annual Report  
**Attachments:** [Item 4 - Memo - Draft 2024 Annual Report.pdf](#)  
[Item 4 - Draft 2024 Annual Report.pdf](#)
5. [87973](#) Water Production Monthly Report  
**Attachments:** [Item 5 - Memo - Water Production Report March 2025.pdf](#)  
[Item 5 - Attachment A - Water Production Report March 2025.pdf](#)  
[Item 5 - Attachment B - Well Utilization Report March 2025.pdf](#)  
[Item 5 - Attachment C - Status of Unit Wells Offline Report March 2025.2.pdf](#)
6. [87974](#) Financial Conditions Monthly Report  
**Attachments:** [Item 6 - Memo - Financial Conditions Report April 2025.pdf](#)  
[Item 6 - Attachment - Financial Conditions Report as of 3.31.25.pdf](#)
7. [87975](#) Capital Projects Monthly Report  
**Attachments:** [Item 7 - Memo - Capital Projects Monthly Report 2025-04-22.pdf](#)  
[Item 7 - Attachment - Capital Projects Monthly Report 2025-04-22.pdf](#)
8. [87976](#) Operations Monthly Report  
**Attachments:** [Item 8 - Memo - Monthly Operations Report April 2025.pdf](#)  
[Item 8 - Attachment - Monthly Operations Report April 2025.pdf](#)
9. [87977](#) Monthly Public Information Report  
**Attachments:** [Item 9 - Memo - Monthly Public Information Report April 2025.pdf](#)  
[Item 9 - Attachment A - Public Info Report.pdf](#)
10. [84022](#) Meeting Evaluation and Discussion  
**Attachments:** [Board Evaluation - Copy.pdf](#)

**ADJOURNMENT**



# City of Madison

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## Master

**File Number: 16738**

**File ID:** 16738

**File Type:** Miscellaneous

**Status:** In Committee

**Version:** 1

**Reference:**

**Controlling Body:** WATER UTILITY BOARD

**File Created Date :** 11/24/2009

**File Name:** Written Public Comments

**Final Action:**

**Title:** General Public Comment

**Notes:**

**Sponsors:**

**Effective Date:**

**Attachments:**

**Enactment Number:**

**Author:**

**Hearing Date:**

**Entered by:** arobb@cityofmadison.com

**Published Date:**

### History of Legislative File

Ver- sion:	Acting Body:	Date:	Action:	Sent To:	Due Date:	Return Date:	Result:
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### Text of Legislative File 16738

**Title**

General Public Comment



# City of Madison

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## Master

**File Number: 87970**

**File ID:** 87970

**File Type:** Presentation

**Status:** Presentation

**Version:** 1

**Reference:**

**Controlling Body:** WATER UTILITY BOARD

**File Created Date :** 04/17/2025

**File Name:** Wisconsin Waterworks Excellence Project

**Final Action:**

**Title:** Wisconsin Waterworks Excellence Project

### Notes:

### Sponsors:

**Effective Date:**

**Attachments:** Item 2 - Memo - WI Waterworks Excellence Report.pdf, Item 2 - Attachment A - 2024 MWU Report Card.pdf, Item 2 - Attachment B - WSJ Article \_Madison Gets High Marks.pdf

**Enactment Number:**

### Author:

**Hearing Date:**

**Entered by:** jberndt@madisonwater.org

**Published Date:**

## History of Legislative File

Ver- sion:	Acting Body:	Date:	Action:	Sent To:	Due Date:	Return Date:	Result:
1	Water Utility	04/17/2025	Refer	WATER UTILITY BOARD			
<b>Action Text:</b> This Report was Refer to the WATER UTILITY BOARD							

## Text of Legislative File 87970

### .TITLE

Wisconsin Waterworks Excellence Project

### .BODY

Professor Manuel P. Teodoro of the La Follette School of Public Affairs at the University of Wisconsin-Madison recently released the inaugural Wisconsin Waterworks Excellence Project Wisconsin Water Utility Report Cards for 570 water utilities regulated by the Wisconsin Public Service Commission (PSC), including Madison Water Utility (Utility).

The stated goal of these report cards is to provide the public with clear, accessible information and include A-F letter grades for multiple functional areas: water quality (health), finance, infrastructure & operations, and communications-with each grade based on multiple performance indicators.

The inaugural report cards were released on March 22, 2025, in honor of World Water Day. The novel scoring system in the report cards incorporate extensive data from the PSC, the Wisconsin Department of Natural Resources (DNR), and original data gathered over the last few years by Professor Teodoro and his research team. Professor Teodoro hopes to release these report cards biennially going forward.

According to these report cards, most of Wisconsin's water utilities provide safe, healthy drinking water with 92% of the state's water utilities earning A grades for water quality. However, more than a quarter of Wisconsin utilities scored in the D-F range in the finance category, while about 22% received marks in the D-F range in infrastructure & operations.

Please see corresponding memo and attachments for a summary of the Madison Water Utility's scoring and additional information.

Attachments: A. 2024 Wisconsin Waterworks Excellence Report--Madison Water Utility; B. Wisconsin State Journal Article, "Madison Gets High Marks," dated April 7, 2025



**MEMORANDUM**

Date: April 22, 2025  
To: Water Utility Board  
From: Krishna Kumar, General Manager  
Subject: Wisconsin Waterworks Excellence Project

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2024 WI Waterworks Excellence Report – Madison Water Utility			
	Category	Overall Score	Grade
1	Water Quality-Health	96.7	A
2	Infrastructure & Operations	80.3	B
3	Finance	82.8	B
4	Communications	100	A

The results reflect the combined and cumulative contributions of the entire Madison Water Utility team – both past and present, over the decades. With our projected level of planned investments in pipeline replacements using increased funding available from expanded expense



depreciation program, our grades for Infrastructure & Operations and Finance should improve even further in the next report card.

**ATTACHMENTS:**

- A. 2024 WI Waterworks Excellence Report – Madison Water Utility
- B. WSJ Article “Madison Gets High Marks” dated April 7, 2025





## WATER QUALITY-HEALTH

How well does this utility eliminate harmful contaminants from drinking water, and keep drinking water safe?



## INFRASTRUCTURE & OPERATIONS

Are the utility's transmission and distribution pipes sound, with few leaks or water main breaks? Is the utility investing adequately in replacement of aging pipes? Is the utility energy efficient?



## FINANCE

Is the utility financially sound and sustainable?  
Are service prices fair and affordable?



## COMMUNICATIONS

Is the utility transparent and interactive with its customers?

### GRADING SCALE

A: 90-100 B: 80-89 C: 70-79 D: 60-69 F: <60



## WHAT DO THESE GRADES MEAN?

### QUALITY - HEALTH

Delivering safe, healthy drinking water is the primary objective of any water utility, and grades are based on regulated contaminant levels for both acute and chronic contaminants. Our grades view complying with federal and state rules as a minimum. Utilities that violate Treatment Technique (TT) or whose water exceeds Mandatory Contaminant Levels (MCLs) under the Safe Drinking Water Act automatically fail, but the higher the grade the healthier the drinking water. Grades in the A range indicate very safe drinking water.

### INFRASTRUCTURE & OPERATIONS

Physical integrity and operational effectiveness are both essential to water system excellence and sustainability. Infrastructure focuses on transmission and distribution of water, measuring things like main breaks. Operations includes several measures of operating efficiency.

### FINANCE

Financial strength is crucial for a utility's sustainability, affordability is critical to the public health mission, and progressive pricing is important for equity. Utilities receive strong marks for showing ample financial capacity and liquidity, and for distributing costs fairly based on the amount of water that customers use.

### COMMUNICATIONS

This grade is based on transparency and interactivity. Transparency reflects opportunities for the public to interact with utility leaders and personnel, while Interactivity gauges opportunities for the public to interact with them. High grades are given to utilities with websites, use of social media, as well as communicating by telephone, email, and/or public meetings.



# 2024 WATER UTILITY REPORT CARD MADISON WATER UTILITY

## QUALITY-HEALTH VALUES & SCORES FOR ACUTE CONTAMINANTS

Contaminant	Value	Score
Cadmium	0.0	100.0
Coliform, total	0.0162	75.0
Dalapon	0	100.0
O-dichlorobenzene	0	100.0
P-dichlorobenzene	0	100.0
Di(2-ethylhexyl) adipate	0	100.0
Nitrate (no3-n)	4.300	91.6
Nitrite (no2-n)	0.000	100.0
Oxamyl (vydate)	0	100.0
Violations?	No	



# 2024 WATER UTILITY REPORT CARD MADISON WATER UTILITY

## QUALITY-HEALTH VALUES & SCORES FOR CHRONIC CONTAMINANTS

Contaminant	Value	Score	Contaminant	Value	Score
Arsenic	0.00	100.0	Fluoride	0.890	96.7
Alachlor (Lasso)	0.00	100.0	Glyphosate	0	100.0
Antimony, Total	0.00	100.0	Heptachlor	0	100.0
Atrazine	0.03	99.8	Heptachlor Epoxide	0	100.0
Barium	0.05	99.6	Hexachlorobenzene (HCB)	0	100.0
Benzene	0.00	100.0	Hexachlorocyclopentadiene	0.000	100.0
Benzo(a)pyrene	0.00	100.0	Lead	5.80	92.4
Beryllium, Total	0.00	100.0	Mercury	0.000	100.0
Bromate	0.00	100.0	Methoxychlor	0	100.0
Carbofuran	0.00	100.0	PCB, Total	0	100.0
Carbon Tetrachloride	0.00	100.0	Pentachlorophenol	0	100.0
Chloramine	0.00	100.0	Picloram	0.0	100.0
Chlordane	0.00	100.0	Radium (226 + 228)	4.94	71.0
Chromium	0.00	99.8	Selenium	0.002	99.4
Copper	210	96.8	2,4,5-TP (Silvex)	0	100.0
Cyanide	0.00	100.0	Simazine	0	100.0
2,4-D	0.00	100.0	Styrene	0.000	100.0
1,2-Dibromo-3-Chloropro (DBCP)	0.00	100.0	Tetrachloroethylene	5.900	23.3
1,2-Dichloroethane	0.000	100.0	Thallium total	0.000	100.0
cis-1,2-dichloroethylene	0.400	100.0	Toluene	0.00	100.0
trans-1,2-dichloroethylene	0.00	100.0	Toxaphene	0	100.0
Dichloromethane	0.00	100.0	1,2,4-Trichlorobenzene	0	100.0
1,2-Dichloropropane	0.00	100.0	1,1,1-Trichloroethane	0	100.0
Di(2-ethylhexyl) adipate	0	100	1,1,2-Trichloroethane	0	97.2
Di(2-ethylhexyl) phthalate	0.00	100.0	Trichloroethylene	0.7399999999999999	100.0
Dinoseb	0.00	100.0	TTHM	12.20	97.0
Diquat	0.00	100.0	Combined Uranium	1.40	99.2
Endothall	0	100.0	Vinyl Chloride	0.00	100.0
Endrin	0	100.0	Xylenes, Total	0.33	100.0
Ethylbenzene	0	100.0	Violations?	No	No
Ethylene Dibromide (EDB)	0	100	Chronic Average	97.9	97.9



# 2024 WATER UTILITY REPORT CARD MADISON WATER UTILITY

## FINANCE VALUES & SCORES

Indicator	Value	Score	Weight (%)
Debt to assets ratio	0.47	69.3	20
Monthly bill in Hours of Minimum Wage	6.4	77.5	25
Days of Operating Reserve	203	88.3	20
Poehler Index	1.6	87.0	5
Return on Equity	0.1	100.0	20
PILOT/Property Tax Equivalent	1.0	75.0	10
<b>Weighted Average</b>		<b>82.8</b>	

## INFRASTRUCTURE & OPERATIONS VALUES AND SCORES

INFRASTRUCTURE			
Indicator	Value	Score	Weight (%)
Main & Service Breaks per 100 miles	28.2	62.0	25
Water Loss per 100 miles (gallons)	117880.7	60.6	12.5
Weighted Average Age of Main (years)	45.8	70.0	6.25
Weighted Replacement Rate (years)	84.3	88.2	6.25
<b>Infrastructure Weighted Average (50% overall)</b>		<b>65.9</b>	
OPERATIONS			
Indicator	Value	Score	Weight (%)
kWh per Million Gallons per Year	2547	83.3	10
Operating Expenses per Thousand Gallons (\$)	1	98.8	7.5
Operating Expenses per Mile of Pipe (\$)	10850	92.5	7.5
Operating Expenses per Customer (\$)	140	97.8	7.5
Operating Expenses per Capita (\$)	42	97.8	7.5
SDWA Management compliance (violations)	0	100.0	10
<b>Operations Weighted Average (50% overall)</b>		<b>94.7</b>	
<b>Total Infrastructure &amp; Operations grade</b>		<b>80.3</b>	

The Wisconsin Waterworks Excellence Project (WWEP) at UW-Madison seeks to make the performance and conditions of these critical but often invisible systems more visible to the people of Wisconsin.



# 2024 WATER UTILITY REPORT CARD MADISON WATER UTILITY

## COMMUNICATIONS VALUES & SCORES

Indicator	Points Earned*	Weight (%)
Website Present	100	5
Mobile-friendly	100	5
Accessibility	100	5
Non-English	100	10
Consumer Confidence Report	100	20
Rates	100	20
Source Water Information	100	4
Facilities Information	Yes	3
Operations Information	100	3
Phone Number	100	5
Webform/Email	100	5
Online Bill Pay	100	5
Past Meetings	100	2.5
Future Meetings	100	2.5
Utility Social Media	100	2.5
Municipal Social Media	100	2.5
<b>TOTAL</b>	100.0	100

\*See full WWEP report for scoring methodology for individual communication indicators.

WATER UTILITIES | STATE REPORT CARD

# Madison gets high marks in Wisconsin's first drinking water report cards

David Wahlberg | Wisconsin State Journal

Apr 7, 2025

**T**he Madison Water Utility got A's for water quality and communications and B's for finances and infrastructure in **Wisconsin's first water utility report cards**, designed by a UW-Madison researcher.



Teodoro

More than 92% of the state's 572 utilities got A's for water quality. But **more than a quarter got D's or F's** in the finance category and 22% got D's or F's for infrastructure and operations.

“On the thing that probably matters the most, drinking water health and safety, our utilities are, with a very few exceptions, doing extraordinary well,” said Manuel Teodoro, a professor in UW's La Follette School of Public Affairs, who compiled the report cards.

But “I worry about whether we can retain those health numbers if our infrastructure and finance numbers aren't where they need to be,” Teodoro said.

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A \$9 million project, expected to be finished by fall, is reducing naturally occurring radium, iron and manganese at the Madison Water Utility's Well 19, at 2526 Lake Mendota Drive.

JOHN HART, STATE JOURNAL

The report cards are based on 2022 and 2023 data from the Wisconsin Public Service Commission, the Wisconsin Department of Natural Resources and information collected by Teodoro and his research team. They are meant to bring more attention to water utilities and the resources they need, Teodoro said.

“These systems are essential and life-sustaining, and they sustain our entire economy, our society, but they’re so invisible,” he said. “We’re trying to make these invisible systems more visible before they suffer catastrophic failures that can hurt people.”

Madison had **high scores for water quality**, with low levels or no detection of most contaminants. But the utility scored somewhat lower for some pollutants, including radium, lead, nitrate, tetrachloroethylene and total coliform, a group of bacteria.

“When you have a large utility like ours, you can’t always be perfect,” utility spokesperson Marcus Pearson said.

A \$9 million **project to reduce naturally occurring radium**, iron and manganese at Well 19, at 2526 Lake Mendota Drive, is expected to be done by this fall, Pearson said. He said the city’s **lead pipes have been replaced with copper**, only one sample among thousands tested positive for coliform in recent years and the utility is looking at lowering Well 18, on Park Street, to reduce tetrachlorethylene there.

Levels of PFAS, or per- and polyfluoroalkyl substances known as “forever chemicals,” were not evaluated in the report cards because they weren’t regulated at the federal level until last year, after the data was collected. Teodoro said future report cards will include PFAS, long used in products such as carpets, cookware and firefighting foam and linked to some cancers.

Low levels of some PFAS have been **detected at least once in 16 of Madison’s wells**. The levels exceeded standards only at Well 15, at 3900 E. Washington Ave., which is not being used because of the PFAS contamination. A \$5.9 million **project to install PFAS treatment equipment** is expected to be finished this summer.



Work on Well 19 is one of two ongoing construction projects at the Madison Water Utility. The other is installing equipment to remove PFAS chemicals and volatile organic compounds at Well 15, at 3900 E. Washington Ave.

JOHN HART, STATE JOURNAL

The Madison utility got high scores for regulatory compliance, operating expenses and return on equity. But its scores were lower for water loss, main and service breaks, the age of its water mains and its debt to assets ratio.

Pearson said the Public Service Commission in 2023 authorized the utility to spend \$5 million to replace water mains, and the utility has applied to spend \$10 million for more replacements starting in 2026. The utility's debt has been reduced from \$282 million in 2018 to \$187 million in 2024, he said.

“We’re continuously re-investing in our infrastructure to make sure that we’re able to provide high quality water,” Pearson said.

Madison was one of only two utilities, along with Green Bay, to get a perfect score in communications, based on information available on websites, use of social media and the public's ability to interact with utility staff.

More than half of utilities got a failing grade in communications.

In the Madison metro area, **Fitchburg got all A's** and **Middleton, Monona and Verona** got A's and B's. Waunakee and McFarland, which mostly got A's and B's, scored lower in communications, with **Waunakee receiving a C** and **McFarland a D**.

Sun Prairie, which got A's and a B in other categories, **received an F for water quality** due to at least one recent violation. In 2023, the city notified about 9,000 customers that an **equipment malfunction caused fluoride levels in some city water to exceed** state and federal safe drinking water standards but resulted in no immediate danger to public health.



Work at Madison's Well 19, near Frautschi Point by Lake Mendota, is expected to greatly reduce levels of radium, which have nearly exceeded federal standards at the well.

JOHN HART, STATE JOURNAL



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## Master

**File Number: 87971**

**File ID:** 87971

**File Type:** Report

**Status:** Items Referred

**Version:** 1

**Reference:**

**Controlling Body:** WATER UTILITY BOARD

**File Created Date :** 04/17/2025

**File Name:** Water Quality Report

**Final Action:**

**Title:** Water Quality Report

**Notes:**

**Sponsors:**

**Effective Date:**

**Attachments:** Item 3 - Memo - 2024 Water Quality Report.pdf, Item 3 - Attachment A - Watch List April 2025.pdf, Item 3 - Attachment B - Lab Results Summary April 2025.pdf

**Enactment Number:**

**Author:**

**Hearing Date:**

**Entered by:** jberndt@madisonwater.org

**Published Date:**

### History of Legislative File

Ver- sion:	Acting Body:	Date:	Action:	Sent To:	Due Date:	Return Date:	Result:
1	Water Utility	04/17/2025	Refer	WATER UTILITY BOARD			
<b>Action Text:</b> This Report was Refer to the WATER UTILITY BOARD							

### Text of Legislative File 87971

.TITLE

Water Quality Report

.BODY

**BACKGROUND**

Board governance policy requires that Madison Water Utility consumers will receive high quality water that meets or is better than all primary and secondary drinking water standards, including their public notification requirements, and complies with board-adopted water quality goals, incorporated by attachment.

The Madison Water Utility recognizes that drinking water standards are subject to revision and that new compounds of concern will be determined. This dynamic is a result of health studies being conducted by health organizations and government agencies on the state, national and international level. The technology to quantify compounds at increasingly minute levels is constantly improving.

The Madison Water Utility shall maintain and promulgate a Watch List of compounds of concern by unit well of compounds that are increasing and may approach the primary and secondary drinking water standards. The Watch List shall identify which wells require action.

This Water Quality Report summarizes the results of the **30,921** water quality tests including coliform bacteria; treatment chemicals (chlorine and fluoride); and inorganic, volatile organic and unregulated contaminants, including PFAS, conducted in calendar year 2024.

**Water Quality Test Type Number of Tests**

Bacteria:

Total Coliform / E. coli 3,386

Chemical:

1. Iron & Manganese 3,911
2. PFAS 989
3. Other 22,635

During this period, there were no reportable water quality violations; however, sodium at Well 14 exceeds a Water Utility Board treatment policy. Summarized results follow as attachments.

**ATTACHMENTS:**

- A. Watch List Summary - April 2025
- B. Water Quality Test Results Summary - 2024



**MEMORANDUM**

Date: April 22, 2025

To: Water Utility Board

From: Joe Grande, Water Resources Manager  
Krishna Kumar, General Manager

Subject: Water Quality Report – April 2025

**BACKGROUND**

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**ATTACHMENTS:**





- A. Watch List Summary – April 2025
- B. Water Quality Test Results Summary – 2024

**Number of Contaminants Above 50% of a Drinking Water Regulation (MCL) or Guideline (SMCL)<sup>^</sup>**

ACTIVE WELLS	50% - 80% MCL	80% - 100% MCL	>MCL	Contaminant: Action Plan
Well 06	1			PFAS (PFHxS): Monitor
Well 18	1			VOC (PCE): Monitor
Well 19	1			Radium: Monitor
Well 27		1		<b>Radium:</b> Vertical Flow Profile Planned

ACTIVE WELLS	50% - 80% SMCL	80% - 100% SMCL	>SMCL	Contaminant: Action Plan
Well 06	1			Sodium: Monitor
Well 14		1	1	<b>Sodium:</b> Investigation & Well Remediation Complete; Chloride
Well 16	1			Sodium: Monitor
Well 17	1			Manganese: Monitor
Well 19	1	1		<b>Manganese:</b> Treatment Addition Under Construction; Iron
Well 24	1	1		Iron and Manganese: Monitor
Well 27	2			Iron and Manganese: Monitor
Well 28	1			Iron: Monitor
Well 30	1			Iron: Monitor

**ACTIVE WELLS**                      **Limited or No Water Quality Impact (Contaminants Below 50% MCL or SMCL)**

Well 07, Well 09, Well 11, Well 12, Well 13, Well 20, Well 25, Well 26, Well 29, Well 31

**INACTIVE WELLS**                      **Temporarily Out of Service Due to Water Quality Issue**

Well 08	1		2	<b>Iron and Manganese;</b> Radium
Well 15			3	<b>PFAS [PFOA,PFOS, &amp; PFHxS]:</b> Treatment Plant Under Construction

**TOTAL**                      15                      4                      6

**KEY:**

MCL = Maximum Contaminant Level: enforceable, health-based standard

SMCL = Secondary MCL: non-enforceable guideline based on aesthetics (taste, odor, or appearance)

<sup>^</sup> Assessment is after any treatment and at point of entry to distribution system; based on 2024 test results

## Historical Changes to Water Utility Watch List Over Time

DATE	SOURCE	CONTAMINANT	CHANGE	REASON FOR CHANGE
04/2025	Well 18	Manganese	Removed	Results average <50% SMCL
	Well 28	Radium	Removed	Result measures <50% MCL

2024 Month	Total Coliform		Chlorine Residual		Fluoride	
	# Samples	# TC Positive	# Samples	# <0.1 mg/L	# Samples	Ave (mg/L)
January	306	2	1118	1	586	0.68
February	281	7	1075	0	536	0.67
March	260	6	1047	0	549	0.66
April	325	0	1077	0	531	0.66
May	294	1	1089	1	543	0.66
June	257	1	1089	7	537	0.67
July	314	2	1153	3	562	0.68
August	271	3	1157	5	563	0.68
September	301	7	1163	3	560	0.70
October	319	0	1141	3	594	0.70
November	248	0	1047	1	536	0.70
December	210	0	1005	1	553	0.67
<b>TOTAL</b>	<b>3386</b>	<b>29</b>	<b>13161</b>	<b>25</b>	<b>6650</b>	<b>0.68</b>
		0.9%		0.19%		
					<b>Target:</b>	<b>0.7 mg/L</b>

# Water Quality Test Results Summary - 2024

## A. Inorganics - Regulated

PARAMETER	UNITS	MCL	DETECTS	MINIMUM	MEDIAN	MAXIMUM
Antimony	µg/L	6	0	<0.3	<0.3	<0.3
Arsenic	µg/L	10	0	<1.1	<1.1	<1.1
Barium	µg/L	2000	20	7.2	21	69
Beryllium	µg/L	4	0	<0.06	<0.06	<0.06
Cadmium	µg/L	5	0	<0.1	<0.1	<0.1
Chromium, Total	µg/L	100	4	<1.2	<1.2	2.6
Copper	µg/L	AL: 1300	20	0.8	3.5	24
Fluoride	mg/L	4	20	0.5	0.7	0.8
Lead	µg/L	AL: 15	1	<0.3	<0.3	0.4
Mercury	µg/L	2	0	<0.05	<0.05	<0.05
Nickel	µg/L	100	8	<1.0	<1.0	2.5
Nitrogen - Nitrate	mg/L	10	13	<0.2	0.9	4.1
Nitrogen - Nitrite	mg/L	1	0	<0.01	<0.01	<0.01
Selenium	µg/L	50	3	<1.0	<1.0	1.5
Thallium	µg/L	2	0	<0.8	<0.8	<0.8

## B. Inorganics - Unregulated

PARAMETER	UNITS	SMCL	DETECTS	MINIMUM	MEDIAN	MAXIMUM
Alkalinity (CaCO3)	mg/L	--	20	260	295	350
Aluminum	µg/L	50	0	<9.0	<9.0	<9.0
Calcium	mg/L	--	20	55	69	110
Chloride	mg/L	250	20	1.6	16	210
Conductivity	umhos / cm	--	20	500	635	1400
Hardness (CaCO3)	mg/L	--	20	270	335	530
Iron	mg/L	0.3	7	<0.04	<0.04	0.3
Magnesium	mg/L	--	20	32	41	62
Manganese	µg/L	50	14	<0.5	2.5	45
pH (Lab)	s.u.	--	20	7.0	7.2	7.5
Silver	µg/L	100	2	<0.7	<0.7	1.9
Sodium	mg/L	--	20	2.3	7.3	64
Strontium	µg/L	--	20	49	82	100
Sulfate	mg/L	250	20	6.6	18	39
Zinc	µg/L	5000	16	<1.8	3.8	8.8

AL - Action Level

MCL - Maximum Contaminant Level

SMCL - Secondary Maximum Contaminant Level

## Water Quality Test Results Summary - 2024

### C. Iron - Wells

SMCL: Secondary Maximum Contaminant Level is 0.3 mg/L

SOURCE	UNITS	SAMPLES	MINIMUM	MEDIAN	MAXIMUM
Well 7*	mg/L	12	<0.01	0.02	0.08
Well 8 <sup>#</sup>	mg/L	1	<b>0.58</b>	<b>0.58</b>	<b>0.58</b>
Well 17	mg/L	7	0.09	0.13	0.14
Well 19	mg/L	10	0.19	0.21	0.22
Well 24	mg/L	11	0.22	0.25	<b>0.33</b>
Well 26 <sup>#</sup>	mg/L	8	<0.01	<0.01	0.01
Well 27	mg/L	12	0.12	0.16	0.17
Well 28	mg/L	12	0.17	0.17	0.18
Well 29*	mg/L	12	<0.01	<0.01	<0.04
Well 30	mg/L	12	0.19	0.21	0.22
Well 31*	mg/L	12	<0.01	<0.01	<0.04

### D. Manganese - Wells

SMCL: Secondary Maximum Contaminant Level is 50 µg/L

SOURCE	UNITS	SAMPLES	MINIMUM	MEDIAN	MAXIMUM
Well 7*	µg/L	12	<2.0	<2.0	3.7
Well 8	µg/L	1	49	49	49
Well 17	µg/L	7	30	33	34
Well 19	µg/L	10	43	45	<b>53</b>
Well 24	µg/L	11	28	31	37
Well 26 <sup>#</sup>	µg/L	8	<2.0	<2.0	33
Well 27	µg/L	12	30	31	36
Well 28	µg/L	12	20	22	25
Well 29*	µg/L	12	1.5	<2.0	2.1
Well 30	µg/L	12	13	14	15
Well 31*	µg/L	12	<0.5	<2.0	<2.0

\* Filtered

# Raw water

## Water Quality Test Results Summary - 2024

### E. Iron - Distribution

*SMCL: Secondary Maximum Contaminant Level is 0.3 mg/L*

	UNITS	Q1	Q2	Q3	Q4
<b>Policy Goal</b>	mg/L	0.3	0.3	0.3	0.3
<b>Median</b>	mg/L	0.018	0.013	0.013	0.012
<b>Average</b>	mg/L	0.05	0.05	0.04	0.05
<b>95th Percentile</b>	mg/L	0.19	0.21	0.15	0.16
<b>Maximum</b>	mg/L	0.33	0.45	0.22	0.30
<b>Number of Samples</b>		43	43	42	41
<b>Samples &gt;0.3 mg/L</b>		1	1	0	2

### F. Manganese - Distribution

*SMCL: Secondary Maximum Contaminant Level is 50 µg/L*

	UNITS	Q1	Q2	Q3	Q4
<b>Policy Goal</b>	µg/L	50	50	50	50
<b>Median</b>	µg/L	<2.0	<2.0	<2.0	<2.0
<b>Average</b>	µg/L	7.7	5.2	6.2	6.5
<b>95th Percentile</b>	µg/L	26	18	21	22
<b>Maximum</b>	µg/L	74	29	28	39
<b>Number of Samples</b>		43	43	42	41
<b>Samples &gt;50 µg/L</b>		1	0	0	0

*\* Includes duplicate samples*

## G. Organic Contaminants

### 1. Overview - Volatile and Synthetic Organics (VOC & SOC)

	<b>TYPE</b>	<b>UNITS</b>	<b>MCL</b>	<b>MAXIMUM</b>	<b>WELLS</b>
1,1-Dichloroethane	VOC	µg/L	--	0.14	#9
1,1-Dichloroethylene	VOC	µg/L	7	0.18	#18
<i>cis</i> 1,2-Dichloroethylene	VOC	µg/L	70	0.49	7 & 11
Tetrachloroethylene [PCE]	VOC	µg/L	5	3.1	6,7,9,11,18
Trichloroethylene [TCE]	VOC	µg/L	5	0.41	7,11,18
Trichlorofluoromethane	VOC	µg/L	--	0.79	9 & 11
PFAS: PFBA	SOC	ng/L	--	47	9,11,14
PFAS: PFHXS	SOC	ng/L	10*	7.3	6 & 14

\* Used to calculate a Hazard Index, which must be less than 1.0

### 2. Detail - Volatile Organics (VOC)

	<b>Range of Test Results (µg/L)</b>					
	<b>MCL</b>	<b>Well #6</b>	<b>Well #7</b>	<b>Well #9</b>	<b>Well #11</b>	<b>Well #18</b>
Tetrachloroethylene [PCE]	5 µg/L	1.9 - 2.9	1.0 - 1.3	1.4 - 1.7	0.65 - 0.92	2.2 - 3.1
Number of Samples		4	4	4	4	4



# Water Quality Test Results Summary - 2024

## H. Radium (226 + 228)

	Number of Samples	Results, pCi/L	Annual Average of Quarterly Samples	NOTE: MCL = 5 pCi/L; based on running annual average of quarterly samples
Well 07	1	2.5	Not Applicable	
Well 19	5*	2.9 - 5.1	3.5 - 3.9	
Well 24	1	1.6	Not Applicable	
Well 27	7*	2.7 - 5.3	3.4 - 4.1	
Well 28	1	2.1	Not Applicable	
Well 30	1	2.2	Not Applicable	

\* Includes duplicate samples

## I. Unregulated Contaminants

Parameter	Units	Well Detects	Results	Wells with Detections
Chromium, Hexavalent	µg/L	13 of 20	<0.02 - 2.0	All except 7,19,24,27,28,30,31
1,4-Dioxane	µg/L	3 of 7	<0.07 - 0.40	9,11,18
Strontium	µg/L	20 of 20	49 - 100	All Wells



# City of Madison

City of Madison  
Madison, WI 53703  
www.cityofmadison.com

## Master

**File Number: 87972**

**File ID:** 87972

**File Type:** Report

**Status:** In Committee

**Version:** 1

**Reference:**

**Controlling Body:** Water Utility

**File Created Date :** 04/17/2025

**File Name:** Draft 2024 Madison Water Utility Annual Report

**Final Action:**

**Title:** DRAFT 2024 Madison Water Utility Annual Report

### Notes:

### Sponsors:

### Effective Date:

**Attachments:** Item 4 - Memo - Draft 2024 Annual Report.pdf, Item 4 - Draft 2024 Annual Report.pdf

### Enactment Number:

### Author:

### Hearing Date:

**Entered by:** jberndt@madisonwater.org

### Published Date:

## History of Legislative File

Ver- sion:	Acting Body:	Date:	Action:	Sent To:	Due Date:	Return Date:	Result:
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### Text of Legislative File 87972

.TITLE

DRAFT 2024 Madison Water Utility Annual Report

.BODY

#### RECOMMENDATION

Review and provide feedback on the attached draft 2024 Madison Water Utility Annual Report.

#### BACKGROUND

Section 13.01(3) of the Madison General Ordinances require the Madison Water Utility Board to "issue an annual report that shall be made available to the Common Council."

Utility staff prepared the attached draft 2024 Madison Water Utility Annual Report for board review and input. Utility Staff plan to finalize the Report after incorporating Board input and edits, if any, and transmit the Report to the Common Council.

#### ATTACHMENTS

A. Draft 2024 Madison Water Utility Annual Report



## **MEMORANDUM**

Date: April 22, 2025  
To: Water Utility Board  
From: Marcus Pearson, Public Information Officer  
Krishna Kumar, General Manager  
Subject: *Draft 2024 Madison Water Utility Annual Report*

## **RECOMMENDATION**

Review and provide feedback on the attached draft 2024 Madison Water Utility Annual Report.

## **BACKGROUND**

Section 13.01(3) of the Madison General Ordinances require the Madison Water Utility Board to “issue an annual report that shall be made available to the Common Council.”

Utility staff prepared the attached draft 2024 Madison Water Utility Annual Report for board review and input. Utility Staff plan to finalize the Report after incorporating Board input and edits, if any, and transmit the Report to the Common Council.

## **ATTACHMENTS**

- A. Draft 2024 Madison Water Utility Annual Report



**Madison  
Water Utility**

2024  
**ANNUAL  
REPORT**

**Madison Water Utility**

119 E Olin Ave, Madison, WI 53713  
water@madisonwater.org  
(608) 266-4651

## Report Contents:

- + **Water Utility Overview**
- + **Fiscal Year 2024 In Review**
- + **Upholding High Water Quality**
- + **Key Capital Investments**
- + **Community Outreach & Engagement**

This reporting period covers 2024 financial statements (unaudited), 2024 water quality monitoring, and 2024 projects, events, operations, and Utility accomplishments.

Section 13.01(3) of the Madison General Ordinances establishes the duty of the Madison Water Utility Board to “issue an annual report that shall be made available to the Common Council.”

## Madison Water Utility Board of Governance

The Madison Water Utility Board is described by Wisconsin state statute and the City of Madison ordinance. The Board is charged with authority for managing and operating Madison Water Utility under the general direction of the Common Council.

The board is made up of eight voting members (eight in 2024) appointed by the Mayor and confirmed by the Common Council. The Director of Madison and Dane County Public Health (or their designee) is an ex officio, non-voting member. The Board has adopted policies that define the benefits Madison Water Utility provides to the residents of Madison, establish financial and ethical boundaries, and describe how the Board carries out its own tasks. Board meetings are public and generally held on the fourth Tuesday of every month.

### Madison Water Utility Board

Patrick E. Delmore, PhD. – <i>President</i>	Alder Regina Vidaver
Debra R. Simon – <i>Vice President</i>	Eric Callisto
Robert J. Abrahamian – <i>Secretary</i>	Curtis Witynski
Alder Amani Latimer Buriss	Ronesha Strozier – <i>ex officio</i>

## History of Madison Water Utility

Founded as a public utility in 1882, Madison Water Utility is proud to bring safe, high-quality water to more than 270,000 people across the Madison area. Madison Water Utility has always been a groundwater system, despite being surrounded by lakes; a deep, high-quality aquifer beneath the city is the source of our drinking water supply.

## Madison Water Utility’s Mission

We are entrusted by the people of Madison to supply high quality water for consumption and fire protection at a reasonable cost, while conserving and protecting our ground water resource for present and future generations.

## System Overview

**24 Million**  
 Gallons of water  
 delivered daily

**270K+**  
 People served in  
 the Madison area

**20**  
 Drinking water wells  
 operating in our system

**~0.5¢**  
 Average cost per gallon  
 of water delivered

**925**  
 Miles of water  
 pipeline maintained

**100%**  
 of drinking water comes  
 from underground aquifer

## Fiscal Year 2024 in Review



**\$58.6 Million**  
 Adopted  
 Operating Budget



**\$17.5 Million**  
 Adopted Capital  
 Budget



**\$56.6 Million**  
 Revenue from  
 Water Sales



**\$314.5 Million**  
 Value of Capital  
 Assets in System

REVENUE	\$
Water Sales	55,574,220
Investment Income	2,192,829
Water Tower Revenue	392,600
Other Operating Revenue	676,258
Other Non-Operating Revenue	141,864
<b>TOTAL:</b>	<b>\$58,977,771</b>

EXPENDITURES	\$
Investment in Infrastructure	12,477,851
Operations & Maintenance	18,994,894
Principal & Interest	25,889,270
PILOT (Payment in-lieu of Taxes)	6,626,591
Reserves	(5,010,606)
<b>TOTAL:</b>	<b>\$58,977,771</b>

## How is Each Rate Dollar Used?

**44¢**  
 Debt Service  
 (Principal and interest)

**32¢**  
 Operating Expenses  
 (Facilities, Vehicles, Security)

**11¢**  
 PILOT  
 (Payment to City)

**13¢**  
 Infrastructure  
 & Reserves

## Upholding High Water Quality\*

Madison's drinking water is closely regulated by both the EPA and DNR. Our testing experts conduct more than a thousand tests every month to continuously monitor water quality and safety.

**Madison's drinking water more than meets all strict Federal and State drinking water standards.**

<p>Madison Water Utility routinely monitors drinking water quality for well-studied and emerging contaminants by conducting more than 30,000 chemical and bacterial tests combined.</p>		<p><b>30,921</b>  <b>Drinking water quality tests conducted in 2024</b></p>
<p><b>PFAS</b></p>	<p>None of the up to 30 PFAS tested were found at ten of the twenty wells tested. PFAS were not found at Wells 12, 17, 19, 20, 24, 25, 28, 29, 30, or 31.</p>	<p><b>27,535</b>                  Chemical Tests</p>
<p><b>Lead</b></p>	<p>Our water supply does not contain significant amounts of naturally occurring lead or copper.</p>	
<p><b>Salt</b></p>	<p>Road salt application likely contributes to elevated sodium levels found at multiple wells.</p>	<p><b>3,386</b>                  Bacterial Tests</p>
		<p><b>30,921</b>  <b>Total water quality tests</b></p>

## Key Capital Investments



**Municipal Well 15  
 PFAS Treatment Project**

Design of PFAS treatment facility at Well 15 to remove PFAS, PCE and TCE.

*Total project costs (estimate)\*: \$5.9M*



**Municipal Well 19  
 Well Treatment Project**

Treatment facility at Well 19 to remove iron, manganese, and radium.

*Total project costs (estimate)\*: \$9.3 M*



**Water Main Rehabilitation**

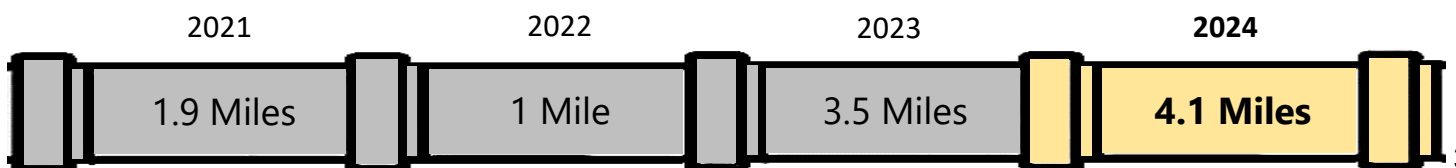
Tech used to rehabilitate aging water mains back to full structural strength.

*Total projects cost: \$1.2M*

\*Total project costs; not all allocated to 2024

## Pipeline Replacements/Rehabilitations Completed

Madison was the first city in WI to rehabilitate aging water mains using the Cured-In-Place Pipe (CIPP) relining method; this is a cost-effective technique used to rehabilitate aging water mains back to full structural strength.



## Customer Service

**30,521**  
 Calls fielded by  
 Customer Service  
 Representatives

**519,543**  
 Payments made  
 using online bill  
 pay system

**968**  
 Rebates availed  
 through Toilet  
 Rebate Program

**748\***  
 Households aided  
 through Project Home  
 (\*Total through 2024)



## Community Outreach & Engagement

Preserving water supply for future generations is key to our mission at Madison Water Utility but can only be achieved if the community shares that same goal. MWU is committed to educating and engaging our community. Our [Community Advisory Process](#) is utilized to keep the community informed and involved.

### Outreach & Engagement

**Water Wagon**

A fun, mobile station that serves up clean, cool, refreshing water at community events across the city during the warm weather months.

**Water Facility Tours**

The Utility offers facility tours to various schools (elementary through graduate school), and other interested community groups throughout the year.



### Programs & Partnerships

**Madison Customer Assistance Program (MadCAP)**

MadCAP assists income-eligible households by providing up to a \$30 monthly credit (discount) on their Municipal Services Bill.

**Toilet Rebate Program**

MWU offers bill credits of up to \$100 to customers who replace their toilets with EPA WaterSense-rated models. The program is a key part of Madison Water Utility's sustainability initiative to protect the deep-well aquifer.

**Home Water Conservation Program**

Provides water improvements at the homes of income-eligible customers.





# City of Madison

City of Madison  
Madison, WI 53703  
www.cityofmadison.com

## Master

**File Number: 87973**

**File ID:** 87973

**File Type:** Report

**Status:** Items Referred

**Version:** 1

**Reference:**

**Controlling Body:** WATER UTILITY BOARD

**File Created Date :** 04/17/2025

**File Name:** Water Production Monthly Report

**Final Action:**

**Title:** Water Production Monthly Report

### Notes:

### Sponsors:

**Effective Date:**

**Attachments:** Item 5 - Memo - Water Production Report March 2025.pdf, Item 5 - Attachment A - Water Production Report March 2025.pdf, Item 5 - Attachment B - Well Utilization Report March 2025.pdf, Item 5 - Attachment C - Status of Unit Wells Offline Report March 2025.2.pdf

**Enactment Number:**

### Author:

**Hearing Date:**

**Entered by:** jberndt@madisonwater.org

**Published Date:**

### History of Legislative File

Ver- sion:	Acting Body:	Date:	Action:	Sent To:	Due Date:	Return Date:	Result:
1	Water Utility	04/17/2025	Refer	WATER UTILITY BOARD			
<b>Action Text:</b> This Report was Refer to the WATER UTILITY BOARD							

### Text of Legislative File 87973

.TITLE

Water Production Monthly Report

.BODY

See corresponding memo and attachments.



## MEMORANDUM

Date: April 22, 2025

To: Water Utility Board

From: Joseph Grande, Water Resources Manager  
Krishna Kumar, General Manager

Subject: Water Production Report

## BACKGROUND

Board governance policy requires that current and future customers will receive water that meets or exceeds industry-accepted levels of service for fire protection and pressure.

This includes:

1. Water delivered to hydrants at proper flow rates for fire protection.
2. Water delivered to the customer tap at a pressure that meets industry-accepted low, high, and emergency operation criteria.
3. Water used for outdoor irrigation under drought-free conditions.

The Water Resources Section of the Utility strives to meet or exceed the expectations laid out above. In addition to the routine Monthly Water Production and Unit Well Cumulative Capacity Utilization reports, a new report is being introduced – Status of Unit Wells Offline for Repairs/Replacement.

## ATTACHMENTS

- A. Monthly Water Production as of March 31, 2025
- B. Unit Well Cumulative Capacity Utilization as of March 31, 2025
- C. Status of Unit Wells Offline for Repairs/Replacement as of March 31, 2025

**Madison Water Utility  
Daily and Cumulative Water Production**

Hydrologic Regions	Number of Wells	Daily Production (In million gallons, MGD)				Cumulative Year-to-Date Production (In billion gallons)			
		Maximum Daily Capacity	Reliable Daily Capacity	March 2025		2023 Actual	2024 Actual	Through 03/31	
				Average Daily Production	Regional Surplus / (Deficiency)			2024	2025
A/B	7	20.2	11.3	8.0	3.3	3.0	3.0	0.7	0.7
C	10	28.8	22.3	11.8	10.5	4.6	4.4	1.0	1.1
D	3	9.1	5.9	4.1	1.8	1.6	1.5	0.3	0.4
<b>System Total</b>	<b>20</b>	<b>58.1</b>	<b>39.5</b>	<b>23.9</b>	<b>15.6</b>	<b>9.2</b>	<b>8.9</b>	<b>2.0</b>	<b>2.2</b>

**Madison Water Utility  
Unit Well Cumulative Capacity Utilization  
3/31/2025**

Region	Unit Well	YTD Capacity (MG)	YTD Production (MG)	YTD Utilization (%)
A/B	7	285	57	20
	9	213	117	55
	11	271	143	53
	13	340	122	36
	25	259	92	35
	29	285	137	48
	31	285	54	19
	<b>All</b>	<b>1938</b>	<b>722</b>	<b>37</b>
C	6	337	126	37
	12	294	163	55
	14	318	167	53
	17	297	0	0
	18	259	157	60
	20	266	121	45
	24	266	113	43
	27	230	66	29
	30	311	155	50
	<b>All</b>	<b>2577</b>	<b>1067</b>	<b>41</b>
D	16	298	180	60
	26	292	0	0
	28	292	187	64
	<b>All</b>	<b>881</b>	<b>367</b>	<b>42</b>
<b>Entire System</b>		<b>5396</b>	<b>2156</b>	<b>40</b>

MG = Million Gallons

**Madison Water Utility**  
**Status of Unit Wells Offline for Repairs/Replacement**  
**3/31/2025**

Region	Unit Well	Lost Supply (GPM)	Date Offline	Expected Online	Status of Repair/Replacement
A/B	15	1,400	03/2019	07/2025	Installation of PFAS treatment is on-going; see Capital Projects report
	31	2,200	02/2025	05/2025	Scheduling well contractor to install pump
C	20	2,000	03/2025	05/2025	Evaluating replacement pump options
	19	2,200	10/2024	07/2025	Installation of iron, manganese, and radium filter is on-going; station will be operational in June or July, filter will go on-line later
D	26	2,200	08/2024	04/2025	Equipment install planned for week of April 21

GPM = gallons per minute; 1,000 gpm = 1.44 MGD (million gallons per day)



# City of Madison

City of Madison  
Madison, WI 53703  
www.cityofmadison.com

## Master

**File Number: 87974**

**File ID:** 87974

**File Type:** Report

**Status:** Items Referred

**Version:** 1

**Reference:**

**Controlling Body:** WATER UTILITY BOARD

**File Created Date :** 04/17/2025

**File Name:** Financial Conditions Monthly Report

**Final Action:**

**Title:** Financial Conditions Monthly Report

### Notes:

### Sponsors:

**Effective Date:**

**Attachments:** Item 6 - Memo - Financial Conditions Report April 2025.pdf, Item 6 - Attachment - Financial Conditions Report as of 3.31.25.pdf

**Enactment Number:**

### Author:

**Hearing Date:**

**Entered by:** jberndt@madisonwater.org

**Published Date:**

### History of Legislative File

Ver- sion:	Acting Body:	Date:	Action:	Sent To:	Due Date:	Return Date:	Result:
1	Water Utility	04/17/2025	Refer	WATER UTILITY BOARD			
<b>Action Text:</b> This Report was Refer to the WATER UTILITY BOARD							

### Text of Legislative File 87974

.TITLE

Financial Conditions Monthly Report

.BODY

See corresponding memo and attachments.

## MEMORANDUM

Date: April 22, 2025

To: Water Utility Board

From: January Vang, Finance and Administrative Manager

Subject: Monthly Financial Report – Operating and Capital Funds

## BACKGROUND

Board governance policy requires that the Utility shall not cause or allow the development of fiscal jeopardy or a material deviation of actual expenditures from board priorities established in Outcomes policies. Accordingly, the Utility shall not cause or allow conditions, procedures, or decisions that:

1. Fail to ensure long-term financial health.
2. Fail to present a balanced annual operating budget and quarterly updates on actual expenditures and income.
3. Exceed total appropriations for the fiscal year, unless directed to do so by the board.
4. Use any dedicated reserves for purposes other than those for which they are designated, unless directed to do so by the board.
5. Undertake a debt without payoff schedule and identification of revenue stream.
6. Fail to establish an unrestricted reserve equal to a typical three months' operating expenses.
7. Fail to inform the board of where the utility stands with any current rate case in progress.
8. Fail to be able to provide a concise summary of the financial condition of the utility at any time.
9. Fail to adjust spending related to revenue shortfalls in a budget deficit.

The Finance Section of the Utility strives hard to meet or exceed the expectations laid out above. The monthly financial update provided in the attached Budget to Actual comparison, as of March 31, 2025, reflecting these efforts is attached.

As of March 31, 2025:

- Water revenues are down \$251 thousand compared to budget. Pumpage was up 4.8% during this time period.
- Operating Fund balance is \$25.9 million.
- Capital Fund expenditures is \$12.4 million, of which \$7.7 million is encumbrances.
- Capital Fund balance is \$1.5 million.

MadCAP Data Summary (as of April 16, 2025)

	AMI <30%	AMI >30% and <50%	Total
Total Applications Received	548	265	813
Total Applications Approved	369	152	521
<i>Homeowners</i>	195	95	290
<i>Renters</i>	174	57	231
Total Applications Not Approved	179	113	292
Households Newly Enrolled in Conservation Programs	115	50	165

**ATTACHMENTS:**

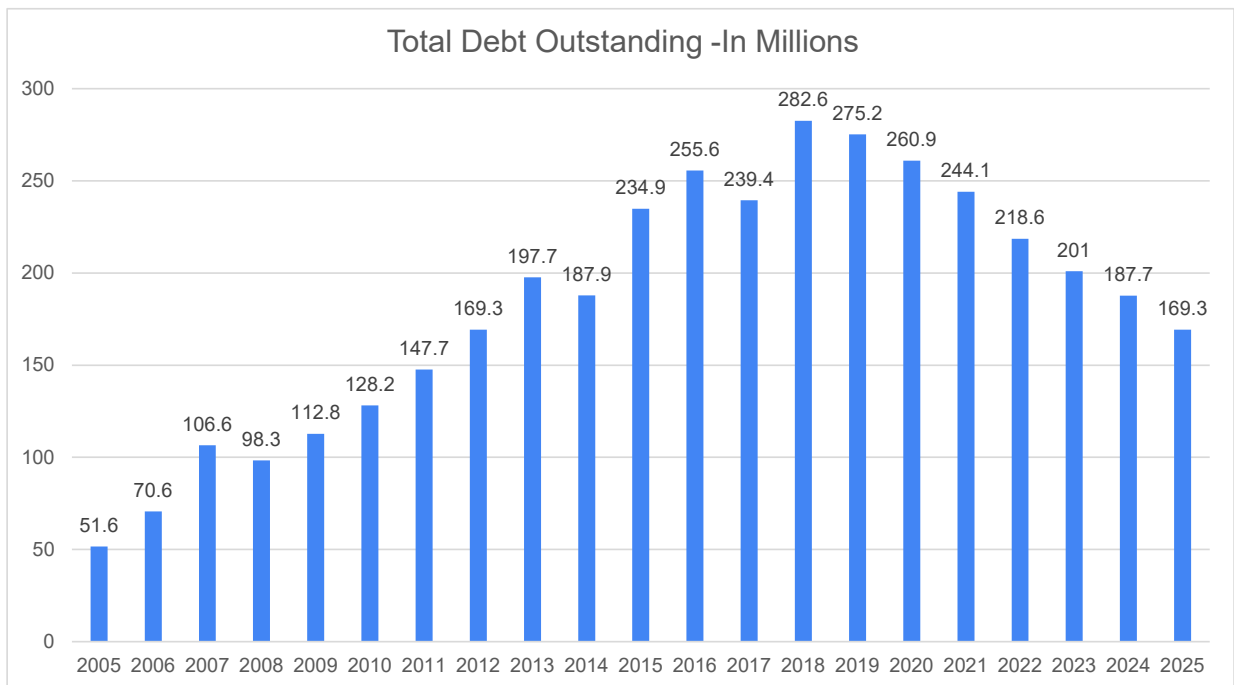
- A. Budget to Actual comparison as of March 31, 2025



<b>Madison Water Utility</b>					
<b>Budget to Actual Comparison</b>					
<b>As of March 31, 2025</b>					
	<b>FY 2023 Actual</b>	<b>FY 2024 Actual*</b>	<b>FY 2025 Budget</b>	<b>Year to Date March 31, 2025</b>	<b>Projected 2025</b>
<b>Operating Fund</b>					
<b>Revenues:</b>					
Sales of water (Operations)	\$ 52,008,356	\$ 50,247,494	\$ 51,693,144	\$ 11,915,926	\$ 51,693,144
Other Revenues	1,704,401	1,326,031	1,213,000	146,772	\$ 1,213,000
Interest Income	1,840,905	1,846,886	1,090,000	486,591	\$ 1,090,000
<b>Total Revenues</b>	<b>55,553,662</b>	<b>53,420,411</b>	<b>53,996,144</b>	<b>12,549,289</b>	<b>53,996,144</b>
<b>Expenditures:</b>					
Operating Expenses	18,885,166	18,975,109	24,687,901	4,630,413	23,000,000
Debt Service - Interest & Principal	18,709,260	18,684,694	19,371,918	4,831,120	19,324,480
Transfer Out to City (PILOT)	6,440,655	6,395,254	6,400,000	1,600,000	6,900,000
<b>Total Expenditures</b>	<b>44,035,081</b>	<b>44,055,057</b>	<b>50,459,819</b>	<b>11,061,533</b>	<b>49,224,480</b>
<b>Net Operating Fund Inc(Decr)</b>	<b>11,518,582</b>	<b>9,365,354</b>	<b>3,536,325</b>	<b>1,487,756</b>	<b>4,771,664</b>
<b>Operating Fund Balance</b>					
Opening Fund Balance	6,198,389	12,178,312	18,960,007	18,960,007	18,960,007
Net Operating Fund Inc(Decr)	11,518,582	9,365,354	3,536,325	1,487,756	4,771,664
Tank Recoat Reserve	-	(800,000)	(800,000)	-	(1,600,000)
Catastrophic Reserve	-	-	-	-	(5,000,000)
Transfer Out to Capital Fund	(2,564,519)	(4,082,489)	(6,230,000)	(1,557,500)	(6,230,000)
Accrual Adjustments	(2,974,140)	2,298,830	(1,780,000)	7,017,547	(1,780,000)
<b>Ending Fund Balance</b>	<b>\$ 12,178,312</b>	<b>\$ 18,960,007</b>	<b>\$ 13,686,333</b>	<b>\$ 25,907,810</b>	<b>\$ 9,121,671</b>
<b>Construction Fund</b>					
<b>Revenues:</b>					
Bond/Loan Proceeds		7,328,000	-	-	-
SDWL Proceeds	-	1,705,445	800,000	1,104,605	5,595,395
Sales of Water (Expense Depreciation)	4,166,667	5,000,000	5,000,000	1,250,000	5,000,000
Trans from Oper Fund / Reserves	2,564,519	4,082,489	6,230,000	1,557,500	6,230,000
<b>Total Capital Revenues</b>	<b>6,731,186</b>	<b>18,115,934</b>	<b>12,030,000</b>	<b>3,912,105</b>	<b>16,825,395</b>
<b>Actual Expenditures &amp; Encumbrances</b>					
Pipeline	5,122,766	6,052,988	6,290,000	2,303,163	6,290,000
Facility	1,825,551	4,399,747	2,995,000	9,278,078	12,195,000
Fleet/Other	1,689,181	2,132,862	2,759,000	848,112	2,759,000
<b>Total Capital Expend &amp; Encumb</b>	<b>8,637,497</b>	<b>12,585,597</b>	<b>12,044,000</b>	<b>12,429,353</b>	<b>21,244,000</b>
<b>Net Construction Fund Inc(Decr)</b>	<b>(1,906,311)</b>	<b>5,530,337</b>	<b>(14,000)</b>	<b>(8,517,248)</b>	<b>(4,418,605)</b>
<b>Construction Fund Balance</b>					
Opening Fund Balance	6,420,832	4,514,521	10,044,858	10,044,858	10,044,858
Net Capital Fund Inc(Decr)	(1,906,311)	5,530,337	(14,000)	(8,517,248)	(4,418,605)
<b>Ending Fund Balance</b>	<b>\$ 4,514,521</b>	<b>\$ 10,044,858</b>	<b>\$ 10,030,858</b>	<b>\$ 1,527,609</b>	<b>\$ 5,626,252</b>
<i>*Subject to additional year-end entries and final audit</i>					

<b>Madison Water Utility</b>				
<b>Cash Reserves &amp; Long-Term Debt</b>				
<b>Cash Reserves</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>As of March</b>
	<b>Actual</b>	<b>Actual</b>	<b>Actual *</b>	<b>31, 2025</b>
<b>Restricted:</b>				
Bond Redemption Fund	\$ 13,164,827	\$ 13,191,166	\$ 13,217,358	\$ -
Bond Redemption Reserve Fund	13,970,411	12,190,068	12,190,068	8,302,276
BAN Repayment Fund	10,000,000	10,000,000	-	-
Tank Recoat Reserve	-	800,000	800,000	1,600,000
Catastrophic Reserve	-	-	-	5,000,000
Depreciation Fund	750,000	750,000	750,000	750,000
PILOT Fund	-	-	-	-
Assessment Account	1,504,541	1,858,134	2,055,530	2,055,530
Revenue Bond Construction Fund	6,420,832	2,548,254	7,492,361	5,119,499
Expense Depreciation	-	1,966,423	2,413,110	2,388,532
Timing Adjustments	-	-	-	4,858,712
Unrestricted Cash Balance	6,198,389	16,178,312	18,960,007	26,722,072
<b>Total Cash &amp; Investments (Munis)</b>	<b>\$ 52,009,000</b>	<b>\$ 59,482,356</b>	<b>\$ 57,878,434</b>	<b>\$ 56,796,621</b>
<b>No. of months expenditures covered by Operating Reserves</b>	<b>1.73</b>	<b>4.41</b>	<b>5.16</b>	<b>2.42</b>
<b>Debt Coverage Ratio</b>	<b>1.95</b>	<b>2.61</b>	<b>2.88*</b>	

\*subject to financial statement being issued





# City of Madison

City of Madison  
Madison, WI 53703  
www.cityofmadison.com

## Master

**File Number: 87975**

**File ID:** 87975

**File Type:** Miscellaneous

**Status:** Items Referred

**Version:** 1

**Reference:**

**Controlling Body:** WATER UTILITY BOARD

**File Created Date :** 04/17/2025

**File Name:** Capital Projects Monthly Report

**Final Action:**

**Title:** Capital Projects Monthly Report

### Notes:

### Sponsors:

**Effective Date:**

**Attachments:** Item 7 - Memo - Capital Projects Monthly Report 2025-04-22.pdf, Item 7 - Attachment - Capital Projects Monthly Report 2025-04-22.pdf

**Enactment Number:**

### Author:

**Hearing Date:**

**Entered by:** jberndt@madisonwater.org

**Published Date:**

### History of Legislative File

Ver- sion:	Acting Body:	Date:	Action:	Sent To:	Due Date:	Return Date:	Result:
1	Water Utility	04/17/2025	Refer	WATER UTILITY BOARD			
<b>Action Text:</b> This Miscellaneous was Refer to the WATER UTILITY BOARD							

### Text of Legislative File 87975

.Title

Capital Projects Monthly Report

.Body

See corresponding memo and attachments.

## MEMORANDUM

Date: April 22, 2025

To: Water Utility Board

From: Pete Holmgren, P.E. – Chief Engineer  
Krishna Kumar – General Manager

Subject: Capital Projects Report

## BACKGROUND

Board governance policy requires that the Utility shall not cause or allow conditions, procedures, or decisions that prevent the Madison Water Utility from meeting its obligation to serve current and future generations of customers within the City of Madison and its authorized service areas. Accordingly, the Utility shall not cause or allow conditions, procedures, or decisions that:

1. Fail to assure that required rates fund all expenditures for timely and prudent capital improvements to existing utility systems, and that those capital improvements are driven by reliability, operational or regulatory requirements, replacement of aging infrastructure, utility relocations for public works and road projects, extension of the life of existing systems, or customer input.
2. Fail to identify and plan for resource and infrastructure needs for the provision of water service to customers in a timely manner.
3. Fail to coordinate Madison Water Utility activities and policies with the City of Madison's Comprehensive Plan and other relevant guidelines for community development.
4. Fail to consider participation with other governmental or private entities on regional major water infrastructure or water supply planning projects.

The Engineering Section of the Utility strives to meet or exceed the expectations laid out above. The monthly Capital Budget to Actual Monthly Report reflecting these efforts is attached.

## **SUMMARY**

The attached Capital Budget Monthly Report presents the total of both actual capital expenditures *and* encumbrances through March 2025; this total is ~\$12,429,000.

The 2025 actual capital expenditures in March total ~ \$3,488,000 and consist of:

- ~\$3,465,000 in facility expenses
- ~\$7,000 in fleet/other expenses
- ~\$16,000 in pipeline expenses

For expense depreciation related to water main replacement projects:

- The total targeted spend amount in 2025 is \$5,000,000
- The actual capital expenditures through March are ~\$30,000
- Encumbrances *plus* actual capital expenditures through March are ~2,303,000

Please refer to the attached report for additional information, which also includes project updates for:

- Major Capital Project Unit Well 19
- Major Capital Project Unit Well 15
- Major Capital Project Unit Well 12

## **ATTACHMENTS:**

1. Capital Projects Monthly Report – April 2025

# WATER UTILITY BOARD

## CAPITAL PROJECTS MONTHLY REPORT

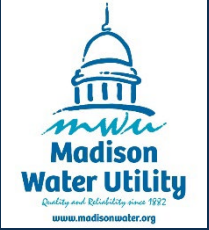


Pete Holmgren, P.E.  
Chief Engineer

April 22, 2025



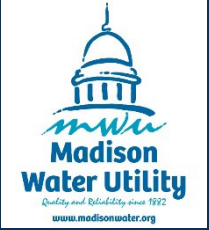
# Capital Projects Monthly Report



## ■ PRESENTATION OVERVIEW:

1. Actual Expenditures Through March 2025
2. 2025 Expense Depreciation for Water Main Replacement
3. Capital Project Updates:
  - Unit Well 19 Iron, Manganese, & Radium Treatment Facility
  - Unit Well 15 PFAS Treatment Facility
  - Unit Well 12 Reconstruction

# Capital Projects Monthly Report

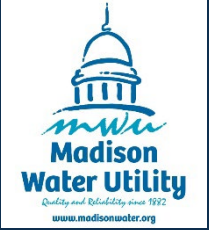


## 2025 Actual Expenditures and Encumbrances (Through March):

- Total of Actual Expenditures and Encumbrances: ~\$12,429,000
- March 2025 Actual Expenditures (~\$3,488,000):
  1. Facilities: ~\$3,465,000
  2. Fleet/Other: ~\$7,000
  3. Pipelines: ~\$16,000



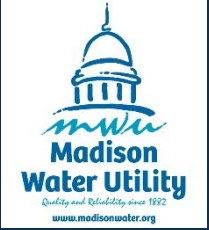
# Capital Projects Monthly Report



## 2025 Water Main Expense Depreciation:

- The total targeted spend amount in 2025 is \$5,000,000.
- Actual expenditures through March are ~\$30,000
- Estimated encumbrances *plus* expenditures through March are \$2,303,000

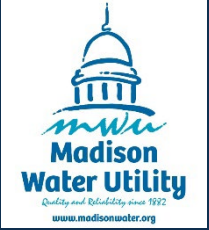
# Capital Projects Monthly Report



## Project Update: Unit Well 19 Iron, Manganese, & Radium Treatment

- Project Budget: \$9,183,000
  - Current Status: Construction
    - Roofing work on building addition and improvements to existing building roof
    - Site re-grading and final utility installations (sewer, electrical)
    - Coordination for replacing the onsite backup generator
  - Upcoming:
    - Well rehabilitation and maintenance
    - Interior mechanical, electrical, plumbing alterations

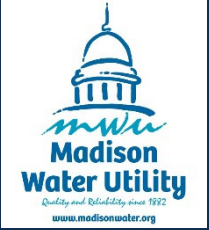
# Capital Projects Monthly Report



## Project Update: Well 15 PFAS Treatment Facility

- Project Budget: \$5,943,000
- Current Status: Construction
  - Interior sprinkler system reconfiguration
  - Heating, Ventilation, and Air Conditioning (HVAC) modifications
  - Electrical – new wiring and old wiring removals, lighting configurations
- Upcoming:
  - Deep well equipment and borehole rehabilitation work (end of April)
  - Chemical feed piping, testing/flushing of new pipes (May)

# Capital Projects Monthly Report



## Project Update: Well 12 Reconstruction

- Project Budget: \$8,00,000\* (2025: \$800,000)
- Current Status: Planning and Analysis
  - Recommendations and analysis of additional site storage – 1.5M gallon reservoir\*
  - Updated plans and specifications for Safe Drinking Water Loan application (6/30/2025)
- Upcoming:
  - Preparations of plans and specifications for Safe Drinking Water Loan Application (end of June)
  - Final comprehensive design contract with SEH (through 2025)



# Questions / Comments?

Contact Information:

Pete Holmgren

[pholmgren@madisonwater.org](mailto:pholmgren@madisonwater.org)



# City of Madison

City of Madison  
Madison, WI 53703  
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## Master

**File Number: 87976**

**File ID:** 87976

**File Type:** Report

**Status:** Items Referred

**Version:** 1

**Reference:**

**Controlling Body:** WATER UTILITY BOARD

**File Created Date :** 04/17/2025

**File Name:** Operations Monthly Report

**Final Action:**

**Title:** Operations Monthly Report

### Notes:

### Sponsors:

**Effective Date:**

**Attachments:** Item 8 - Memo - Monthly Operations Report April 2025.pdf, Item 8 - Attachment - Monthly Operations Report April 2025.pdf

**Enactment Number:**

### Author:

**Hearing Date:**

**Entered by:** jberndt@madisonwater.org

**Published Date:**

### History of Legislative File

Ver- sion:	Acting Body:	Date:	Action:	Sent To:	Due Date:	Return Date:	Result:
1	Water Utility	04/17/2025	Refer	WATER UTILITY BOARD			
<b>Action Text:</b> This Report was Refer to the WATER UTILITY BOARD							

### Text of Legislative File 87976

.TITLE

Operations Monthly Report

.BODY

See corresponding memo and attachment.



## MEMORANDUM

Date: April 22, 2025

To: Water Utility Board

From: Dan Rodefeld, Operations Manager

Subject: Monthly Operations Report

## BACKGROUND


Board governance policy require that Madison residents will receive water which is consistent in its availability and quality. Accordingly, residents will:

- a. Experience minimal unplanned service interruptions
- b. Receive adequate notice of planned service interruptions
- c. Receive adequate notice of planned maintenance work that would significantly reduce water flow or pressure, and/or cause water discoloration

The Operations Section of the Utility strives hard to meet or exceed the expectations laid out above. The attached Monthly Operations Report for April 2025 reflecting these efforts is attached.

## ATTACHMENTS

- A. Monthly Operations Report – April 2025

 <b>Madison Water Utility</b>	MONTHLY OPERATIONS REPORT Apr-25		
	Jan-Feb-25	Mar-25	2025 YTD Total
<b>Hydrants</b>			
Total in Service - <b>9,522</b>			
No. Replaced	3	5	8
No. of Inspections	542	570	1,112
No. Repaired	9	4	13
Unidirectional Flushing Runs	0	0	0
Conventional Flushing Runs	0	0	0
No. Re-painted	0	0	0
(Temp Water Connections)	9	10	19
<b>Valves</b>			
Total System valves - <b>16,102</b>			
Total Large Service valves - <b>4,281</b>			
Total Hydrant valves - <b>7,020</b>			
No. Replaced	11	8	19
No. of Inspections	3,018	801	3,819
No. Repaired	16	14	30
<b>System Leaks</b>			
Total Miles in Service - <b>924</b>			
Number of Main Leaks Repaired	129	27	156
Number of Service Leaks Repaired	4	3	7
<b>Operational Projects</b>			
Cast-in-place pipe lining (feet)	0	0	0
Pavement repair (open work orders)	158	44	202
Pavement repair (closed work orders)	0	2	2
Terrace repair (open work orders)	81	51	132
Terrace repair (closed work orders)	0	0	0





# City of Madison

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## Master

**File Number: 87977**

**File ID:** 87977

**File Type:** Report

**Status:** Items Referred

**Version:** 1

**Reference:**

**Controlling Body:** WATER UTILITY BOARD

**File Created Date :** 04/17/2025

**File Name:** Monthly Public Information Report

**Final Action:**

**Title:** Monthly Public Information Report

### Notes:

### Sponsors:

**Effective Date:**

**Attachments:** Item 9 - Memo - Monthly Public Information Report April 2025.pdf, Item 9 - Attachment A - Public Info Report.pdf

**Enactment Number:**

### Author:

**Hearing Date:**

**Entered by:** jberndt@madisonwater.org

**Published Date:**

### History of Legislative File

Ver- sion:	Acting Body:	Date:	Action:	Sent To:	Due Date:	Return Date:	Result:
1	Water Utility	04/17/2025	Refer	WATER UTILITY BOARD			
<b>Action Text:</b> This Report was Refer to the WATER UTILITY BOARD							

### Text of Legislative File 87977

.Title

Monthly Public Information Report

.Body

See corresponding memo and attachment.



## **MEMORANDUM**

Date: April 22, 2025  
To: Water Utility Board  
From: Marcus Pearson, Public Information Officer  
Krishna Kumar, General Manager  
Subject: Public Information Report

## **BACKGROUND**

Madison Water Utility's overarching mission is to supply high quality water for consumption and fire protection, at a reasonable cost, while conserving and protecting our ground water resources for present and future generations. Community trust and awareness is built through our constant commitment to the preservation and protection our aquifer and care for Madison's vital drinking water infrastructure. This is cultivated through a wide variety of efforts performed by Utility staff daily.

The above expectations are met through:

1. Operation, maintenance, and management of our system.
2. Community outreach and engagement.
3. Customer service.

The Public Information Department of the Utility strives to exceed the expectations laid out above. The Monthly Public Information Report encompasses Utility efforts pertaining to public outreach and engagement occurring on or after April 1, 2025. The attachment(s) below reflect these efforts.

## **ATTACHMENTS**

- A. Public Communications & Outreach Report

# PUBLIC INFORMATION REPORT

April 2025



<b>Public Communications</b>	April 2025	2025 YTD Total
Social media posts	9	76
Media mentions	3	11
Customer Service calls	834	6,665
Meter Shop calls	182	1,495
Website views	18,592	54,144
Emails to email list subscribers	5	9
News releases	0	3

<b>Community Outreach Events</b>	
April 8	Well tour with Cub Scout Pack
April 10	Lunch and Learn with Madison Credit Union
April 17	Green Cities, Green Students Resource Fair: Earth Fest tabling
April 22	Jody featured speaker at West Shore Water Producer Assn. meeting in Milwaukee
April 23	Educational presentation at Elvehjem Elementary
April 24	Water wagon at PSC Take Your Child to Work Day
April 24	Parks Alive collaboration meeting
April 26	Water wagon at Mifflin St Block Party
April 28	Poynette School visit to Paterson for Career Exploration Tour

<b>Ongoing Projects &amp; Initiatives</b>
Website translations
Where's Water?
Website Accessibility Initiative
MadCAP webform development
2024 Annual Water Quality Report (CCR)
Lead Service Line inventory online database



# City of Madison

City of Madison  
Madison, WI 53703  
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## Master

**File Number: 84022**

**File ID:** 84022

**File Type:** Miscellaneous

**Status:** In Committee

**Version:** 1

**Reference:**

**Controlling Body:** WATER UTILITY BOARD

**File Created Date :** 06/20/2024

**File Name:** Board Meeting Evaluation and Discussion

**Final Action:**

**Title:** Meeting Evaluation and Discussion

**Notes:**

**Sponsors:**

**Effective Date:**

**Attachments:** Board\_Evaluation - Copy.pdf

**Enactment Number:**

**Author:**

**Hearing Date:**

**Entered by:** jberndt@madisonwater.org

**Published Date:**

### History of Legislative File

Ver- sion:	Acting Body:	Date:	Action:	Sent To:	Due Date:	Return Date:	Result:

### Text of Legislative File 84022

.Title  
Meeting Evaluation and Discussion

# Water Utility Board Self-Evaluation Form

(Relates to Board Policy BP-2A and GUIDE 5)

**All members actively participate in discussions, and all members have opportunities to voice opinions/positions on agenda topics.**

Not Met 1 2 3 4 5 Fully Met

**Members come prepared to engage in discussion by reviewing materials provided prior to the meeting.**

Not Met 1 2 3 4 5 Fully Met

**Members engage in active listening and avoid interrupting other speakers.**

Not Met 1 2 3 4 5 Fully Met

**Members offer honest opinions and respect the viewpoints expressed by other members.**

Not Met 1 2 3 4 5 Fully Met

**Members honor WUB procedures and policies as outlined in the WUB Policy book.**

Not Met 1 2 3 4 5 Fully Met

**Members represent the collective interest of current and future Madison residents.**

Not Met 1 2 3 4 5 Fully Met

**Members make decisions based on equity principles considering the decision's impact on all residents. The decision-making process considers: Who benefits? Who is burdened? Who does not have a voice at the table? How can policymakers mitigate unintended consequences?**

Not Met 1 2 3 4 5 Fully Met

*Developed by Pat Delmore, January 2019. Updated July 2020.*