



Quarterly Update at NEW Water

December 18, 2019

Agenda

- Welcome / Brief Updates – Tom Sigmund, Executive Director
 - *Budget Overview, R2E2, PFAS*
- Green Initiatives – Jeff Smudde, Environmental Programs Director
- Weather Events & Communications – Tricia Garrison, Public Affairs & Education Manager
- #FlushFighters campaign – Sharon Thieszen, Field Services Manager & Tricia Garrison

END PART ONE / BREAK

- Inflow & Infiltration Stakeholder Advisory Group – Nate Qualls, Technical Services Director



Updates from Executive Director

- Budget Overview
- R2E2
- PFAS



2020 NEW Water Budget Overview

- Adopted by Commission on December 4
- 3.2% increase in expenses
- 5.3% increase in Municipal User Fees
- Change in Units:
 - Volume +2.5%
 - BOD -0.7%
 - TSS +10.3%
 - P +2.4%
 - TKN -1.7%



Municipal Rate Example Comparison

Parameter	2019	2020	% Change
Volume (1,000 gals)	\$0.91399	\$0.87724	- 4.0%
Biochemical Oxygen Demand (lbs)	\$0.53245	\$0.57783	8.5%
Suspended Solids (lbs)	\$0.52656	\$0.52938	0.5%
Phosphorus (lbs)	\$1.01111	\$1.18037	16.7%
Total Kjeldahl Nitrogen (lbs)	\$0.97315	\$1.02910	5.7%

Note: Rates shown above are for **comparison only** and **include allocation** of \$12,456,715 fixed charge for 2019 and \$12,362,950 fixed charge for 2020. Parameter rates billed to customers do not include fixed charge; that amount is billed separately.

R2E2 Update

- Electrical energy generation
- High strength waste addition
- Granular activated carbon (GAC) adsorber

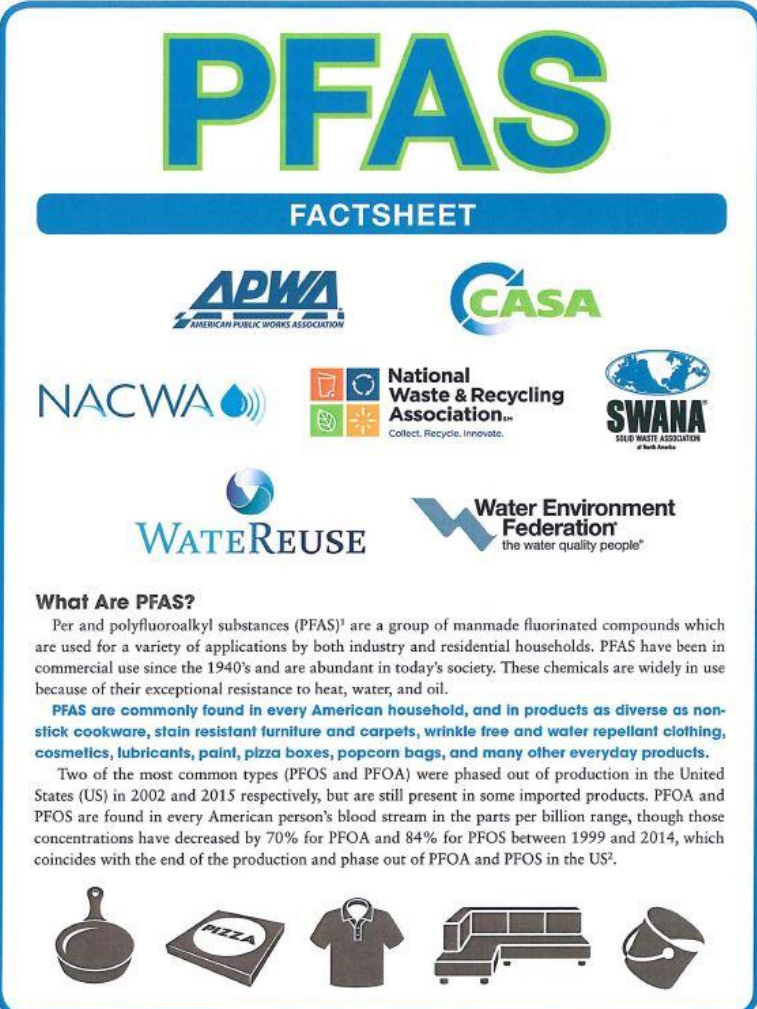


PFAS

- *per and polyfluroalkyl substances (PFAS)*
- *NEW Water is working with the Wisconsin Department of Natural Resources, the Municipal Environmental Group, and wastewater utilities on moving forward with development of a PFAS Pollution Minimization Plan*

For more information:

- [NACWA PFAS Fact Sheet](#)
- [EPA PFAS Website](#)
- [Wisconsin DNR PFAS Website](#)



PFAS

FACTSHEET

APWA
AMERICAN PUBLIC WORKS ASSOCIATION

CASA

NACWA

National Waste & Recycling Association...
Collect. Recycle. Innovate.

SWANA
SOLID WASTE ASSOCIATION
of North America

WATERREUSE


Water Environment Federation
the water quality people®

What Are PFAS?

Per and polyfluoroalkyl substances (PFAS)¹ are a group of manmade fluorinated compounds which are used for a variety of applications by both industry and residential households. PFAS have been in commercial use since the 1940's and are abundant in today's society. These chemicals are widely in use because of their exceptional resistance to heat, water, and oil.

PFAS are commonly found in every American household, and in products as diverse as non-stick cookware, stain resistant furniture and carpets, wrinkle free and water repellent clothing, cosmetics, lubricants, paint, pizza boxes, popcorn bags, and many other everyday products.

Two of the most common types (PFOS and PFOA) were phased out of production in the United States (US) in 2002 and 2015 respectively, but are still present in some imported products. PFOA and PFOS are found in every American person's blood stream in the parts per billion range, though those concentrations have decreased by 70% for PFOA and 84% for PFOS between 1999 and 2014, which coincides with the end of the production and phase out of PFOA and PFOS in the US².



November 1, 2019

Green Initiatives

- Adaptive Management Update
- U.S. Forest Service Tree Planting Grant (awarded)
- Wisconsin Coastal Management Program East River Resiliency Grant (submitted)



Adaptive Management Updates

- Adaptive Management Plan Revisions and submittal to WDNR
- Silver Creek Project
 - Landowner & Grower Appreciation Luncheon – Dec 3
 - Annual Stakeholder Meeting – Dec 11
- Ashwaubenon Creek and Dutchman Creek
 - Core Program Team Kickoff Meeting
 - December 16
 - Agricultural Kickoff Meeting
 - February 26
 - Stakeholder Kickoff Meeting
 - March 19



U.S. Forest Service Tree Planting Grant

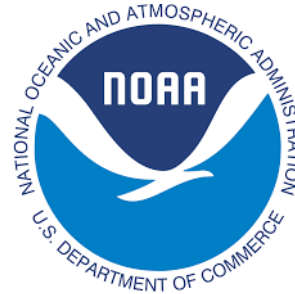
- NEW Water has been awarded a grant from the U.S. Forest Service under Great Lakes Restoration Initiative (GLRI) funding to plant trees
 - Effort supports water quality improvements by helping to capture stormwater runoff
- The funding will be passed through to communities within the service area to plant 1,170 trees
 - Partners include Allouez, Ashwaubenon, Bellevue, De Pere, Green Bay, Howard, Ledgeview, the Oneida Nation, and the Wisconsin Department of Natural Resources
- Project begins January 1, 2020



NEW Water, EPA, and the Forest Service are equal opportunity providers

Wisconsin Coastal Management Program East River Resiliency Grant

- NEW Water has submitted a grant to the Wisconsin Coastal Management Program (WCMP) to address flooding in the East River Watershed
- Will partner with UW-Sea Grant and the Nature Conservancy to develop a flood study for the East River watershed
- Will pull together the communities in the East River Watershed to collaborate on identifying issues and solutions
- If awarded, project would begin July 1, 2020



Weather Events & Communications

NEW Water @NEWWater_WI · Sep 11
Can the laundry & dishes wait? Flooding is stressing the interconnected sewer pipes throughout our community. Washing machines & dishwashers send more water into the system at a critical time: If you can hold off until rains subside, please do. Give the pipes some relief!

Brown County EM @BCEMGMT · Sep 11
The National Weather Service in Green Bay has issued a

- * Flood Warning for... Brown County in northeastern Wisconsin...
- * Until 200 PM CDT.



Village of Bellevue, Wisconsin
September 11 at 5:14 PM · 🌐


Please refrain from high-water using activities (dishes, laundry) during the flooding.

Flooding is stressing the interconnected sewer pipes throughout the community. Washing machines and dishwashers send more water into the system at a critical time: If you can hold off until rains subside, please do. Give the pipes some relief!

👍👎 50 3 Comments 74 Shares

Village of Allouez 🌐
2.1K like this · Allouez, Wisconsin · City

Sep 11 · 🌐 · Can the laundry & dishes wait? Flooding is stressing the interconnected sewer pipes throughout our community. Washing machines & dishwashers send more water into the system at a critical time: If you can hold off until rains subside, please do. Give the pipes some relief!



👍👎❤️ 65 5 Comments 126 Shares

Haley BeMiller 🌐 @haleybemiller · Sep 11
.@NEWWater_WI says you don't have to do dishes or laundry tonight!

But in all seriousness, stay safe and avoid flooded areas.

SEVERE STORM OUTLOOK

TODAY	THURSDAY
	

POTENTIAL THREATS:
Damaging Winds
Heavy Downpours
Localized Flooding

Wisconsin weather: Warning issued for potential flooding Wednesday a...
The National Weather Service said heavy rains coupled with strong winds could cause high water on the Fox River, East River and Duck Creek.
🌐 greenbaypressgazette.com

Weather Events & Communications



Town of Ledgeview @TownOfLedgeview · Sep 11

Those with pools, please wait to drain excessive water until the flooding subsides.



NEW Water @NEWWater_WI · Sep 11

Can the laundry & dishes wait? Flooding is stressing the interconnected sewer pipes throughout our community. Washing machines & dishwashers send more water into the system at a critical time: If you can hold off until rains subside, please do. Give the pipes some relief! twitter.com/BCEMGMT/status...



City of Green Bay Dept of Public Works

September 11 at 4:31 PM · 🌐

Region-wide flooding is stressing the interconnected sanitary sewer pipes throughout the region including within the City. Household appliances such as washing machines and dishwashers send more water into the sewer pipe system at a critical time. Therefore, NEWWater is requesting that if possible, please hold off using these appliances until the rain subsides. This should help give the pipes some much-needed relief.

👍 🙄 😞 131

24 Comments 533 Shares



Jeff Bollier @GBstreetwise · Sep 11

Hey #GreenBay and #BrownCounty, @NEWWater_WI is asking residents to avoid using washing machines and dishwashers right now as they overtax an already-overtaxed sewer system during heavy rains. Do your part to help out! #wiwx

How you can help overwhelmed drainage systems

WATCH: NEW Water system strained

Can the laundry & dishes wait? Flooding is stressing the interconnected sanitary sewer pipes throughout the region including within the City. Household appliances such as washing machines and dishwashers send more water into the sewer pipe system at a critical time. Therefore, NEWWater is requesting that if possible, please hold off using these appliances until the rain subsides. This should help give the pipes some much-needed relief.

GREEN BAY, Wis. (WBAY) - As more rain is anticipated Thursday night into early Friday morning, NEW Water and the City of Green Bay are doing what they can to prepare the pipes to take on even more water.

One area known to flood is along the East River, but many areas were underwater Wednesday due to the stressed sewer system. Stressed sewer pipes prompted messages across social media on Wednesday asking people to hold off running the washing machine or dishwasher.

"Individually there's not a lot that happens from each washing machine, but when you look across our entire 250-mile service area, a lot of people doing a little bit can make a difference," NEW Water executive director Tom Sigmund said.

On average, NEW Water processes about 40 million gallons of water each day, but heavy rains are sending two to three times as much clear water, or clean water, into the system this week.

"So the difference between 40 and [90 or 135 million gallons] is all clear water, so that's water that shouldn't be coming into the system," Sigmund said.

Street flooding on Main Street in Green Bay, Sept. 11, 2019 (WBAY Photo)

Weather Events & Communications

📌 Pinned Tweet



NEW Water @NEWWater_WI · Sep 11

Thanks everyone for helping out by limiting washing machine & dishwasher usage while our community's sewers manage today's flooding. Flows are leveling off now, but some pipes in the system may still be impacted. Until this weather event ends, we suggest limiting heavy water use



“Unflushables”

Overview: “Something’s gotta give”

Goal: Reduce blockages and sewer issues associated with “The Unflushables” for public health, environmental protection, and lower costs

Objectives

- ***Reduce costs.*** Reduce homeowner property damage, backups to businesses, and damage mitigation costs to NEW Water.
- ***Improve the environment.*** Reduce “Unflushables” reaching the environment, including plastics (wipes and other products can contain microplastics, which can pass through to the environment).
- ***Inspire behavior change.*** Change people’s behavior to stop using their toilets and drains as trash cans.





Unflushables: What is it? *Wipes & other products*





Unflushables:

Why should you care?

Unflushables

Costing NEW Water \$



Unflushables

Costing Your Residents \$



credit: <https://mumby.com/prevent-sewer-backup/>

Unflushables

- What we have done
 - Public outreach & presentations
 - Pilot projects to physically measure & track unflushables
 - Produced public education materials #FlushFighters
- Next steps
 - Continue outreach & presentations
 - Continue pilot projects & potential new projects
 - Expand public education materials
 - Ad buy (bathroom stalls, newspapers, etc.)
 - Video production – if you'd like to participate in our “tone & messaging” video survey, please contact us
- Help us! We need you
Tricia Garrison, tgarrison@newwater.us; Sharon Thieszen, sthieszen@newwater.us



Thank you!



**BECOME A
FLUSH FIGHTER!**

→ TAKE THE FLUSH FIGHTERS PLEDGE

I will protect our pipes and environment by only flushing the 3 P's - Poop, Pee, and Toilet Paper.
I will not flush wipes - even the ones that say "flushable."
I will put wipes, floss, sanitary products, and everything except the 3 P's in the trash.
I am a Flush Fighter!

→ TAKE YOUR FLUSH FIGHTER PHOTO

Share your photo on social media **#flushfighters** and help spread the word about protecting our pipes and environment!

www.newwater.us/3Ps



Thank you for coming!

Stay tuned to NEW Water news

