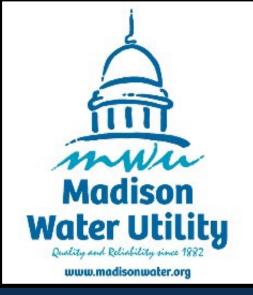
WATER UTILITY BOARD PFAS DRINKING WATER STANDARDS SETTING STATUS UPDATE



Krishna Kumar, General Manager Joe Grande, Water Quality Manager

January 25, 2022



PFAS Drinking Water Standards Setting

- Presentation Focus:
 - 1. Primary Players
 - 2. Key Elements of the Process
 - 3. EPA and WI DNR Timeline
 - 4. MWU Well Test Results / Frequency
 - 5. Well 15 Status Update

PFAS Drinking Water Standards Setting - Players Water Utility **Sets Standards US EPA Implements Standards WIDNR** DEPT. OF NATURAL RESOUR **Meets Standards Public Water Utilities**

PFAS Drinking Water Standards Setting – Role of EPA

- Sets standards for both naturally-occurring and human-made contaminants MCLs (94 contaminants regulated)
- Establishes non-mandatory guidelines related to taste, appearance, or odor – Secondary MCLs (15 guidelines)
- Prescribes monitoring requirements for priority unregulated contaminants – UCMRs (30 contaminants)
 - -Including PFOA, PFOS, PFHxS, and PFBS



PFAS Drinking Water Standards Setting – Role of DNR

- WI DNR implements & enforces drinking water standards
- Rules are codified in Wisconsin Administrative Code and include:
 - -Drinking Water Standards MCLs & Secondary MCLs
 - -Monitoring Frequency & Analytical Requirements
 - -Reporting Requirements & Public Notification
 - -Best Available Technology for Treatment





PFAS Drinking Water Standards Setting – Role of MWU



Meets Standards through Testing & Reporting to DNR:

- Daily chlorine, fluoride, coliform
- Monthly iron, manganese, chloride
- Quarterly VOC, radium, DBP
- Annually IOC, PFAS, VOC
- Periodically lead & copper, SOC,

Madison Water Utility – 2020 Testing

Test Type	Samples	Tests
Chlorine	10,621	10,621
Fluoride	6,856	6,856
Total coliform/E. coli	2 <i>,</i> 905	2,905
Others	788	5895
Total	21,170	26,277



PFAS Drinking Water Standards Setting – Process (EPA)



Step 1. Identify Step 2. Evaluate

Step 3. Regulate

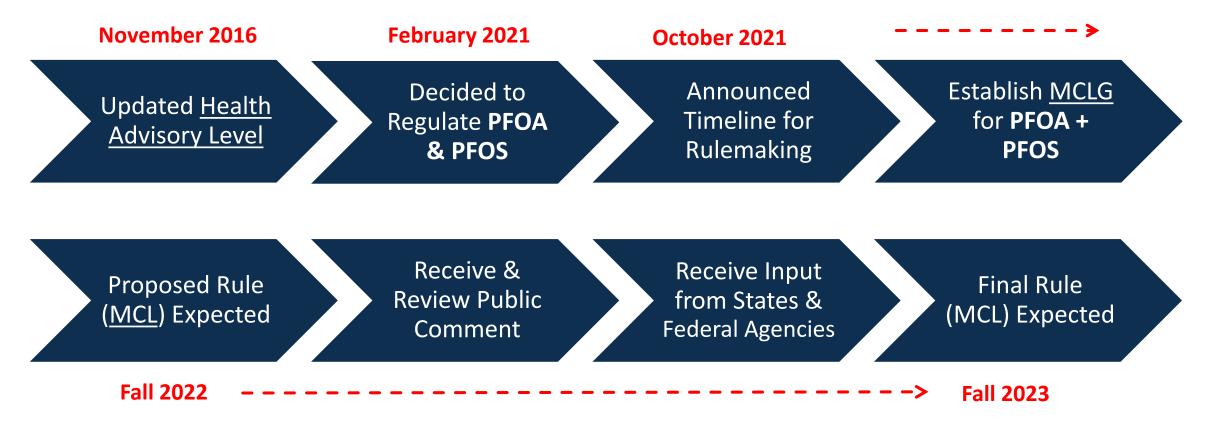
- Contaminants of concern identified
- Contaminant Candidate
 List (CCL) published
- Contaminants prioritized using monitoring data & risk assessments

- Human health effects data
- Occurrence at levels of public health concern
- "Meaningful opportunity for health risk reduction"

- ✓ Publish Preliminary Regulatory
 Determination
- Receive and review public/agency comments
- ✓ Publish final regulation in the Federal Register

PFAS Drinking Water Standards Setting – Timeline (EPA)

Madison Water Utilitu



EPA announces an aggressive timetable for PFAS regulation

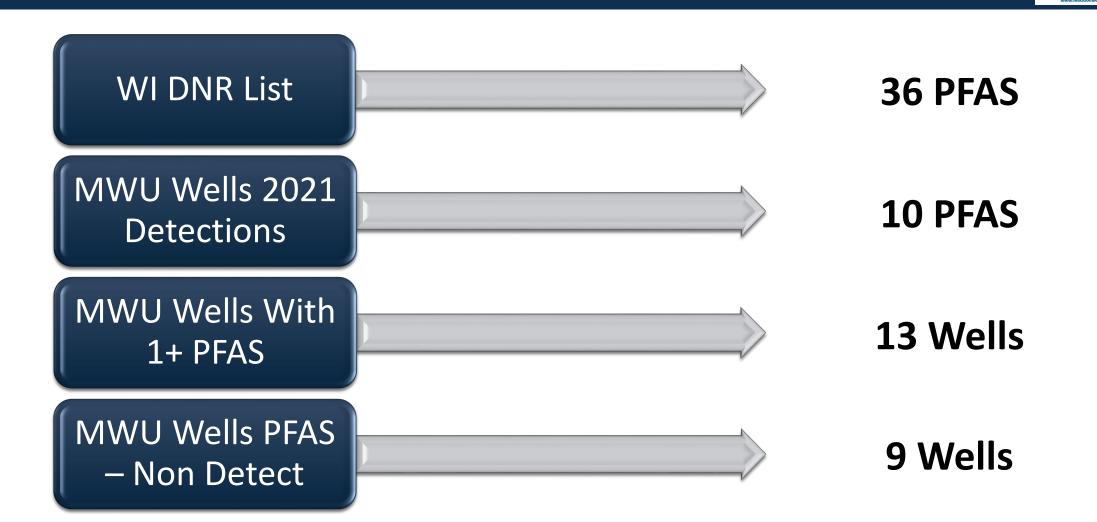
PFAS Drinking Water Standards Setting – Timeline (DNR)

Madison Water Utilitu



DNR headed to the home stretch after a 30-month journey

PFAS Drinking Water Standards Setting – MWU Results



Madison Water Utility

PFAS Drinking Water Standards Setting – MWU Results

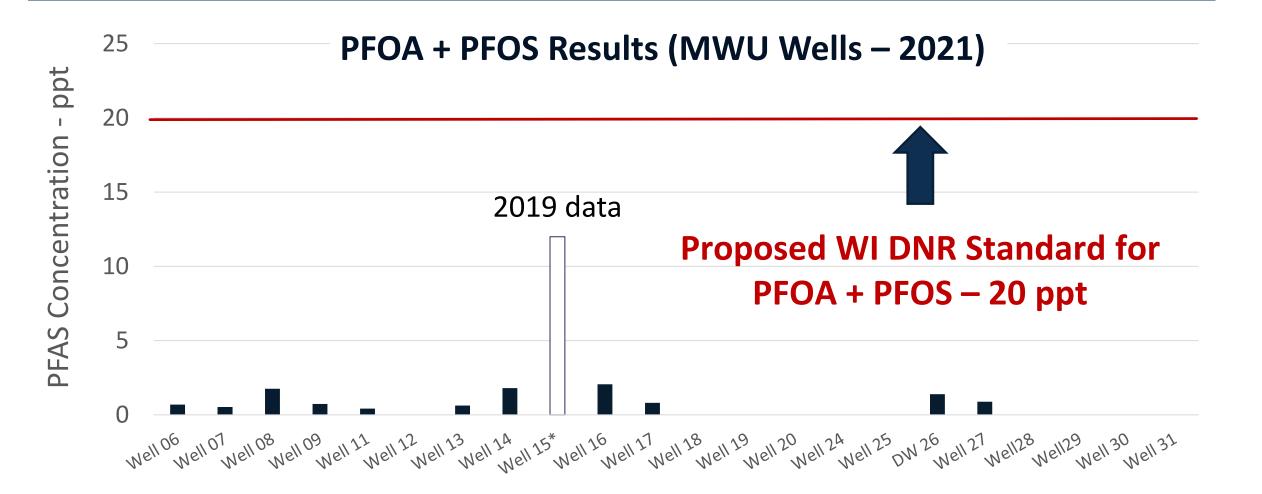


	PFAS Compound	WI DHS Recommendation (ppt)	Maximum (2021)	Maximum (2020)
1	PFOA	20#	1.38	1.8
2	PFOS	20#	1.33	1.8
3	FOSA	20#	ND	4.4*
4	NEtFOSE	20#	ND	1.5
5	PFBA	10,000	25.5	37
6	PFBS	450,000	36.9	1.7
7	PFHxA	150,000	1.89	2.2
8	PFHXS	40	4.4	5.0
9	PFDoA	500	ND	0.56
10	PFTeA	10,000	ND	0.52

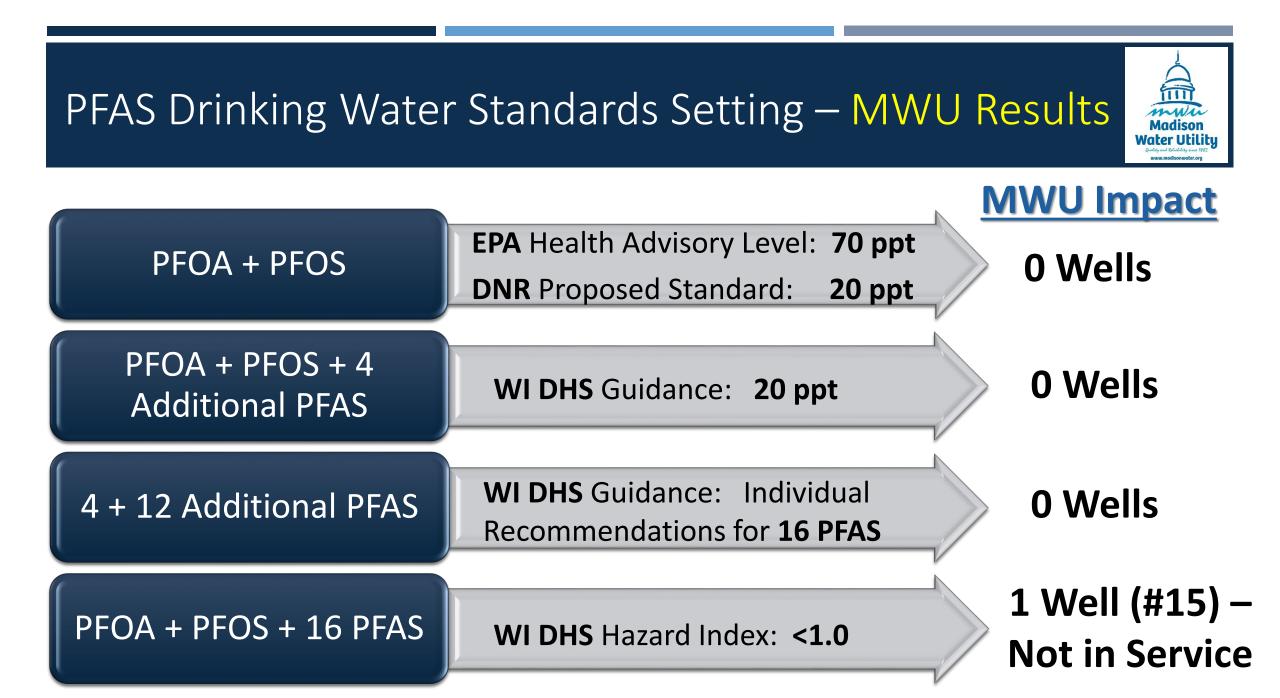
Sum of six PFAS must be below 20 ppt

* May reflect crosscontamination at lab

PFAS Drinking Water Standards Setting – MWU Results



Madison Water Utilit



PFAS – MWU Testing Frequency

- Current Frequency Annual
- Proposed Frequency from 2022– Semi Annual
 - March
 - October

Well 15 – Public Input



Acknowledging the Critical Role of Community Advocacy

- Madison Environmental Justice (MEJO) & Dr. Maria C.
 Powell, PhD
- Neighborhood Associations:
 - Carpenter-Ridgeway; Eken Park / Emerson East; Glendale; and Greater Sandburg
- Other Interested and Involved Citizens

Well 15 – Status Update



- The Water Utility will not place Well 15 back in service unless filtration is added if PFAS measurements exceed the WI DHS Hazard Index
- The Utility fully commits to inform and engage the public, especially those in the Well 15 service area, and policy makers before a decision is made to place Well 15 back in service
- Filtration efforts could potentially result in increased costs to the Utility's customers; hence the Utility is proactively seeking WI PSC's approval for introducing a Customer Assistance Program to help with affordability



www.madisonwater.org

Questions / Comments?

Contact Information:

Krishna Kumar (kkumar2@cityofmadison.com)

Joe Grande (jgrande@cityofmadison.com)