

What are PFAS?

Per- & Polyfluoroalkyl Substances

- Class of over 14,000 compounds; man-made chemicals
- Used in consumer products since 1950s
- PFOA and PFOS have been the most extensively produced
- “Forever Chemicals” that resist degradation.
- Emerged as common drinking water pollutants around 2010-2015

The Regulations

Current Regulations

- October 2020 - Massachusetts amended Drinking Water Regulation
 - **Enforceable Maximum Contaminant Level (MCL) of 20 ppt for the total of 6 PFAS Compounds**

Proposed Regulations

- March 2023 - Draft Federal EPA Standards
 - **4 ppt PFOA and 4 ppt PFOS plus limit on sum of 4 others**
- December 2023 - Submitted for interagency review
- Spring 2024 – Planned issue of finalized Federal EPA Standards for PFOA and PFOS

What impact would the new Regulations have on the US and Massachusetts?

EPA Estimated Nationwide Impact

- 66,000 water systems subject to the rule
- 3,400-6,300 systems would be non-compliant (between 5-10% of all PWS)
- Cost to comply exceeding \$5B
- Little PFAS testing has occurred across the country, impact may be even higher.
- Demand for filter media and pressure vessels will stress supply chain and costs expected to rise.

PFAS chemicals have been found in many MA public water supplies

- 1,417 public water systems must test for PFAS in MA
- 170 public water systems found PFAS6 above 20 ppt at least once
- New EPA rule could triple the amount of MA PWS in excess of the new MCL of 4 ppt PFOA / PFOS

What impact would the new Regulations have on our Drinking Water Supply?

Expected impact on 6 of our 12 source wells:

- Damon
- Lakeshore
- Depot Street
- Partridge
- Millbrook

Capacity Mayflower, Evergreen & Tremont

- 4 million gallons per day

Peak Demand in Summer

- 3.9 million gallons per day

Source Name	Exceedance of Proposed PFOS MCL (4ppt)	Exceedance of Proposed PFOA MCL (4 ppt)
Tremont Well No. 1	1.92	1.17
Tremont Well No. 2		
Evergreen Well No. 1	1.37	2.3
Evergreen Well No. 2		
Mayflower Well No. 1	2.45	2.82
Mayflower Well No. 2		
Damon Well No. 1	2.91	4.38
Damon Well No. 2		
Lake Shore Dr Well	2.56	4.92
Depot St. Well	1.41	8.32
Partridge Rd. Well	28	7.12
Millbrook Pond Well	2.43	4.57

Warrant Article 14

PFAS Conceptual Design & Prioritization

- Conceptual design for each of the town wells to determine the required technology to reduce PFAS. The conceptual design will identify site constraints, recommendations related to media selection and media life, and overall potential project costs.
- Hydrogeological groundwater modeling to support the PFAS Prioritization Plan
- Owner's Project Management to oversee consultants' activities.
- This information will be used to strategize which wells should be prioritized for PFAS treatment along with solving other water quality and physical plant challenges at the selected wells.
- Total Request: \$700,000

Warrant Article 15

PFAS Mitigation

- Design & permitting services for the priority project for PFAS mitigation.
- Three years to comply with the new regulations. Typical timeline from design to construction completion is 2-2.5 years.
- Proactively seeking funds to begin design & permitting of the prioritized wells as soon as Prioritization Study has been completed.
- Critical to begin remediation efforts as soon as possible to avoid water capacity limitations.
- Prepare to be “first in line” for grant opportunities.
- Total Request: \$1,000,000