

# **DEQ** Actions Regarding EPA's proposed MCLs for PFOS and PFOA

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- Health advisory levels (HALs): In June 2022, EPA releases Lifetime Drinking Water HALs for PFOA, PFOS, GenX, PFBS.
  - PFOA: .004 ppt (interim)
  - PFOS: .02 ppt (interim)
  - GenX: 10 ppt (final)
  - PFBS: 2,000 ppt (final)
- These levels informed the Maximum Contaminant Level Goals or MCLGs which are not regulatory and are lower than the proposed MCLs.
- MCLs are the Maximum Contaminant Levels and are regulatory values.





#### March 2023: Proposed Maximum Contaminant Levels (MCLs) Expected to be finalized in late 2023, in effect in 2026.

Compound	Proposed MCLG	Proposed MCL (enforceable levels)
PFOA	Zero	4.0 (ppt or ng/L)
PFOS	Zero	4.0 ppt
PFNA	1.0 (unitless) Hazard Index	1.0 (unitless) Hazard Index
PFHxS		
PFBS		
HFPO-DA (GenX Chemicals)		



The proposed rule would also require public water systems to:

- Monitor for these PFAS
  - Community and Non-Transient Non-Community
  - Entry Points (similar to SOCs, VOCs)
- Notify the public of the levels of these PFAS
  - CCR consumer confidence report, annually
  - Tier 2 PN 30-days to notify consumers level > MCL
- Reduce the levels of these PFAS in drinking water if they exceed the proposed standards.
  - Running Annual Average

### Hazard Index Calculation:

$$\begin{aligned} \text{Hazard Index} &= \left(\frac{[\text{GenX}_{\text{water}}]}{[10 \text{ ppt}]}\right) + \left(\frac{[\text{PFBS}_{\text{water}}]}{[2000 \text{ ppt}]}\right) + \left(\frac{[\text{PFNA}_{\text{water}}]}{[10 \text{ ppt}]}\right) + \left(\frac{[\text{PFHxS}_{\text{water}}]}{[9.0 \text{ ppt}]}\right) \\ &= Department of Environmental Quality \\ Division of Water Resources \end{aligned}$$

## Water Systems in NC

- Public Water Systems (PWS)
  - Public drinking water utilities
  - Systems serve large areas, many residents
  - >5,000 total Serves >7 Million residents
  - PWS defined as > 15 connections or serves > 25 people

- Community Water Systems (CWS) about 1,900 total in NC
- Non-transient Non-community systems about 325 total in NC

- In 2019 the PFAST Network sampled 326 PWS for PFAS
  - 50 PWS had detections above 4 ppt for PFOA and/or PFOS
- In late 2022, DEQ resampled those 50 PWS for PFOS and PFOA
  - 42 had either PFOS and/or PFOA above 4 ppt
  - 8 had either no detections or PFOA and PFOS below 4 ppt





their customers. That data was made public earlier this

week.

0 25 50 75 100 w S

## **PWS Sampling in NC**





Public Water Supply PFOA/PFOS Sampling in North Carolina Map Creation Date: 03/13/2023 Map Author: Jared Wilson Data Sources: North Carolina Department of Environmental Quality



- DEQ has developed plans to sample additional water systems to assess the levels of PFAS on a statewide scale. (some small systems are being targeted for PFAS sampling)
- DEQ will continue to provide technical assistance and support to public water systems to help identify and reduce PFAS in drinking water.



- March 2023: Proposed Maximum Contaminant Levels (MCLs)
- Expected to be finalized in late 2023, in effect in 2026.
- PWS's have 3 years to come into compliance
- Compliance point is where finished water enters distribution system
- Sample quarterly and must shown an annual running average < MCL</li>

EPA has several resources, including FAQs, on their website:

https://www.epa.gov/sdwa/and-polyfluoroalkyl-substances-pfas or https://bit.ly/3yCGRLh

NORTH CAROLINA Department of Environmental Quality



• In NC, many residents are not connected to PWS or CWS, they receive their drinking water from private drinking water wells.

- Private wells are not protected by MCLs and are not tested at the same frequency that PWS or CWS are.
  - DEQ is pursuing funding options to support these residents.



More key points:

- DEQ is working with water systems on meeting all regulatory requirements and sharing data.
- DEQ will continue to collect data from systems across the state.
- Proposed MCLs/rulemaking are a first step in concrete solutions to a problem we have only recently begun to fully understand.



What is available on DEQ website:

• This week DEQ updated its Understanding PFAS page:

https://deq.nc.gov/news/key-issues/emerging-

compounds/understanding-pfas

• Data gathered from late 2022 is also online:

https://deq.nc.gov/news/key-issues/emerging-

compounds/understanding-pfas/deq-pfas-sampling-public-

water-systems

• We plan to add more sampling data as available.





 DEQ has information on end-user filtration options (via DHHS) on its website. We will provide it and encourage systems to do so as well.

https://epi.dph.ncdhhs.gov/oee/pfas/PFAS\_TestingFiltration.pdf

• Funding is available through state/federal government for water system upgrades and filtration.

https://deq.nc.gov/about/divisions/water-infrastructure/i-need-funding

