

## Evesham MUA Public Notice regarding PFAS (Forever Chemicals)

### What are PFAS?

PFAS are per- and polyfluoroalkyl substances. PFAS are a large family of thousands of manmade chemicals that have been used in many different consumer, commercial, and industrial products since the 1940s. PFAS substances are widely used, long lasting chemicals, that do not easily breakdown. PFAS, also known as “forever chemicals,” repel water and oil and are resistant to heat and chemical reactions.

Products that may be manufactured with PFAS include stain-resistant coatings for upholstery and carpets, water-resistant breathable clothing, greaseproof food packaging, non-stick cookware, and aqueous film-forming foams used for extinguishing hydrocarbon fires and in firefighter training

### Are these compounds regulated? What are the Maximum Contaminant Levels (MCLs) for these compounds?

Yes, PFAS have been regulated by the NJDEP and are newly regulated by the USEPA. PFAS are typically measured in either µg/L (microgram per liter), also known as ppb (parts per billion), or ng/L (nanogram per Liter), also known as ppt (parts per trillion).

The New Jersey Safe Drinking Water Act (N.J.A.C. 7:10) had adopted maximum contaminant levels (MCLs) for three PFAS compounds in 2018 and 2020: perfluorononanoic acid (PFNA), perfluorooctanoic acid (PFOA), and perfluorooctanesulfonic acid (PFOS). Maximum Contaminant Levels (MCLs) are the highest allowable level of a contaminant that is allowed in drinking water. On April 10, 2024, EPA established federal MCLs, for six PFAS in drinking water: PFOA, PFOS, PFNA, perfluorohexanesulfonic acid (PFHxS), and HFPO-DA (GenX chemicals) as contaminants with individual MCLs, and PFAS mixtures containing at least two or more of PFHxS, PFNA, HFPO-DA, and perfluorobutanesulfonic acid (PFBS) using a Hazard Index MCL to account for the combined and co-occurring levels of these PFAS in drinking water. Please see below for NJDEP and EPA’s MCLs.

<b>Compound</b>	<b>EPA Final MCL (ug/L or ppb)</b>	<b>NJDEP 2018 &amp; 2020 MCLs (ug/L or ppb)</b>
<b>PFOA</b>	0.004	0.014
<b>PFOS</b>	0.004	0.013
<b>PFNA</b>	0.010	0.013
<b>PFHxS</b>	0.010	N/A
<b>HFPO-DA (commonly known as GenX Chemicals)</b>	0.010	N/A
<b>Mixtures containing two or more of PFNA, PFHxS, HFPO-DA, and PFBS</b>	1 (unitless) Hazard Index	N/A

The Evesham MUA has tested for PFOA, PFOS, and PFNA since 2020 and will be required to start initial monitoring for these newly regulated PFAS by 2027. To find out further information on EPA’s new PFAS regulations visit: <https://www.epa.gov/sdwa/and-polyfluoroalkyl-substances-pfas>.

## **What are Evesham MUA’s levels of PFNA, PFOA, and PFOS in our drinking water?**

The Evesham Municipal Utilities Authority (MUA) began monitoring for PFNA, PFOA, and PFOS at all nine (9) of our water treatment plants beginning in 2020. Evesham MUA is required to analyze these 3 PFAS compounds annually. PFNA, PFOA, and PFOS were not detected at any of our 9 water treatment plants in 2020, 2021, 2022, 2023, or 2024. Below are Evesham MUA’s 2024 testing results along with NJDEP and EPA’s MCLs.

<b>Contaminant</b>	<b>2024 Evesham Results</b>	<b>NJ Maximum Contaminant Level (MCL)</b>	<b>2024 EPA Maximum Contaminant Level (MCL)</b>
PFOA	< 0.0019 µg/L	0.014 µg/L	0.004 µg/L
PFNA	< 0.0019 µg/L	0.013 µg/L	0.010 µg/L
PFOS	< 0.0019 µg/L	0.013 µg/L	0.004 µg/L

To compare these low levels of detection to real world examples, 1 ug/L (microgram per liter) is equivalent to...

- 1 drop of water in an Olympic-size swimming pool,
- 1 blade of grass on a football field,
- 1 foot of a trip to the moon, or
- 1 second in 32 years



**Evesham MUA’s drinking water was not detected at concentrations 500x lower than these real-world examples.**

### **Additional PFAS compounds and testing (UCMR5):**

The Safe Drinking Water Act (SDWA) requires that once every 5 years, EPA issues a new list of no more than 30 unregulated contaminants to be monitored by public water systems. The fifth Unregulated Contaminant Monitoring Rule (UCMR 5) was published in 2021. The purpose of the UCMR is to provide data to EPA, States, and the public on the occurrence of these contaminants in drinking water and determine if regulations are warranted under the SDWA. As part of the EPA’s UCMR5, Evesham MUA and all public water systems must test for 29 PFAS compounds. Two samples were taken at each of our 9 Treatment Plants in February 2024 and August 2024. Samples were also taken quarterly in 2024 at our two interconnections (NJ American Water and Mt. Laurel MUA). To date, there have been no detections of any of the 29 PFAS compounds at any of Evesham MUA’s 9 Treatment Plants or the two interconnections. A list of the 29 PFAS compounds tested is below.

11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)
4,8-dioxa-3H-perfluorononanoic acid (ADONA)
hexafluoropropylene oxide dimer acid (HFPO-DA) (GenX chemicals)
nonafluoro-3,6-dioxaheptanoic acid (NFDHA)
perfluorobutanoic acid (PFBA)
perfluorobutanesulfonic acid (PFBS)
1H,1H, 2H, 2H-perfluorodecane sulfonic acid (8:2FTS)
perfluorodecanoic acid (PFDA)
perfluorododecanoic acid (PFDoA)
perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)
perfluoroheptanesulfonic acid (PFHpS)
perfluoroheptanoic acid (PFHpA)
1H,1H, 2H, 2H-perfluorohexane sulfonic acid (4:2FTS)
perfluorohexanesulfonic acid (PFHxS)
perfluorohexanoic acid (PFHxA)
perfluoro-3-methoxypropanoic acid (PFMPA)
perfluoro-4-methoxybutanoic acid (PFMBA)
perfluorononanoic acid (PFNA)
1H,1H, 2H, 2H-perfluorooctane sulfonic acid (6:2FTS)
perfluorooctanesulfonic acid (PFOS)
perfluorooctanoic acid (PFOA)
perfluoropentanoic acid (PFPeA)
perfluoropentanesulfonic acid (PFPeS)
perfluoroundecanoic acid (PFUnA)
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)
perfluorotetradecanoic acid (PFTA)
perfluorotridecanoic acid (PFTrDA)

For additional information on PFAS, please visit <https://www.nj.gov/dep/pfas/>. For additional information pertaining to your drinking water in Evesham, please visit our website at <http://www.eveshammua.com/>. To access drinking water results, please view our Annual Consumer Confidence Report (CCR) at <http://www.eveshammua.com/consumer-confidence-report/>.