



JERSEY WATERWORKS **CONFERENCE** 2025

DECEMBER 11, 2025 | THE COLLEGE OF NEW JERSEY, EWING

OUR COMMITMENT TO FUTURE GENERATIONS

Jersey Water Works Collaborative brings together people with diverse backgrounds, perspectives, and expertise to address the challenges within New Jersey's water sector.

www.jerseywaterworks.org
info@jerseywaterworks.org

Thank you for joining us!

#njwater25

JERSEY WATERWORKS CONFERENCE 2025

DECEMBER 11, 2025 | THE COLLEGE OF NEW JERSEY, EWING

Our Commitment to Future Generations



NEW JERSEY
AMERICAN WATER



LISC NEW JERSEY



CONNECTING THE DOTS: ORGANIZING OUR APPROACH TO PFAS CHALLENGES

LEARNING LAB



Numerous significant developments are occurring across the state concerning PFAS, making it essential for us to remain well-informed as we navigate these complex challenges. This session is a two-part session.

- In **Part 1**, we'll map out the **current landscape**, discussing the latest developments and challenges related to PFAS.
- **Part 2** will shift our focus to **collaboration**, exploring the creation of a committee or task force designed to enhance our messaging and collective efforts.
- Attendees will have the opportunity to share insights, learn from one another, and develop a unified strategy to address PFAS concerns effectively.

JERSEY WATERWORKS
CONFERENCE 2025
DECEMBER 11, 2025 | THE COLLEGE OF NEW JERSEY, EWING

***CONNECTING THE
DOTS:
ORGANIZING OUR
APPROACH TO
PFAS CHALLENGES***



Patricia Gardner
NJDEP



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American Water



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Veolia North America



Andy Kricun
Moonshot Missions

Learning
Lab

Part 1: Mapping Existing Efforts 10:00 a.m. to 11:15 a.m.

Part 2: Exploring Collaboration Opportunities 11:30 a.m. to 12:30 p.m.

**CREDITS: 1.3 PE CPC
& 1.0 PE CPC Credit**



Water Resource Management PFAS Actions

Patricia Gardner, Assistant Commissioner

Jersey Water Works Conference

December 11, 2025



Overview

WRM PFAS Timeline

New Jersey's PFNA MCL was first MCL for any PFAS in the US

2005-2006

- PFOA detected in tap water (2005) and wells (2006) of a NJ public water system (PWS) near an industrial source.

2007

- NJDEP issued PFOA chronic (lifetime) drinking water guidance of 40 ng/L at request of affected PWS.

2006 & 2009

- NJDEP conducted first statewide studies of PFAS in drinking water in the U.S.

2013 - 2015

- PFOA & PFNA found more frequently in NJ PWS than nationally in national USEPA study Unregulated Contaminant Monitoring Rule (UCMR3).

2014

- NJDEP Commissioner asked the Drinking Water Quality Institute (DWQI) to recommend MCLs for PFNA, PFOA & PFOS.

2018- 2020

- Adopted MCLs & GWQS for PFNA (13ng/L), PFOA (14 ng/L), and PFOS (13 ng/L) and added them to Private Well Testing Act (PWTa).

2022 – 2024

- Stakeholder for SWQS for PFNA, PFOA, and PFOS

2023

- AO to encourage the collection of data that will aid in the Department's efforts to identify, reduce, and eliminate sources of PFAS in wastewater and its residuals

2023 - 2026

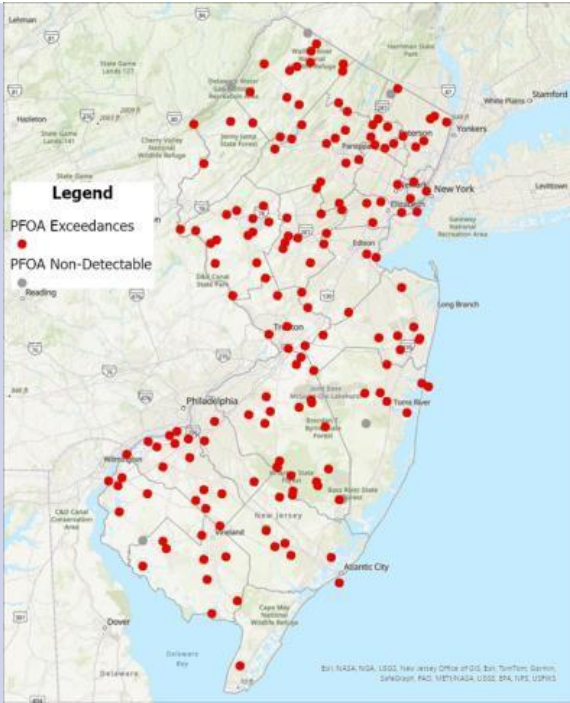
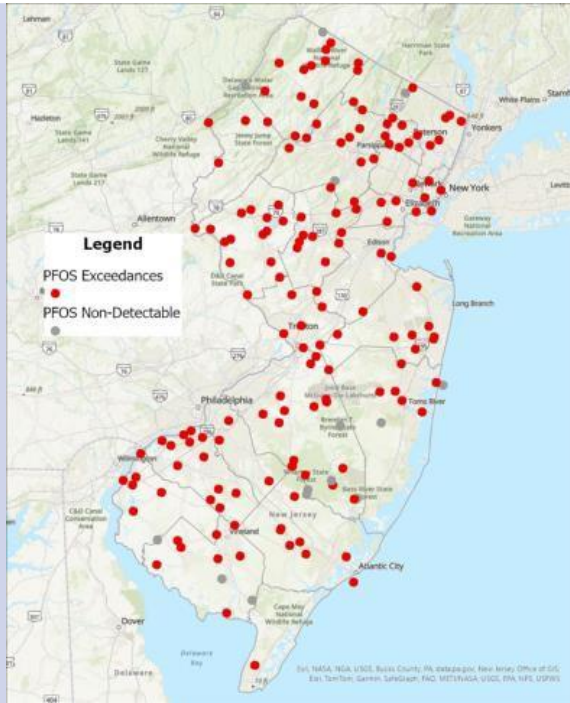
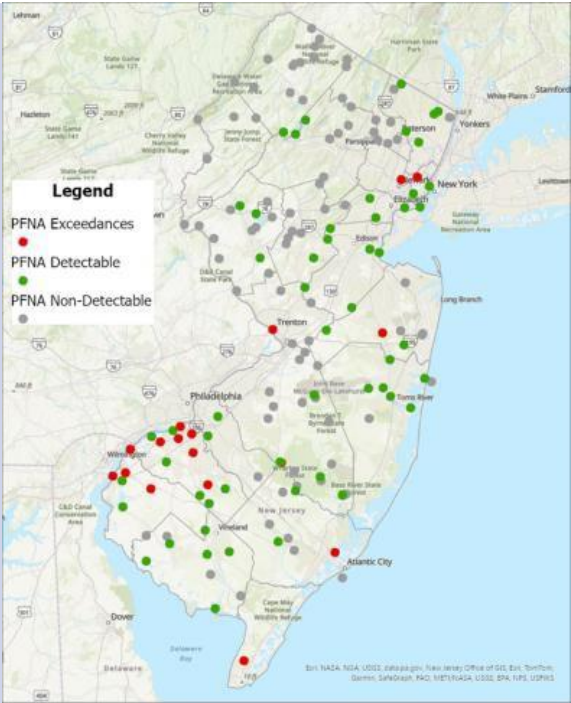
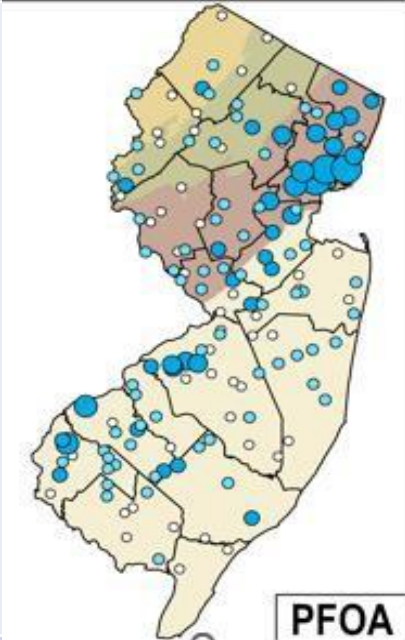
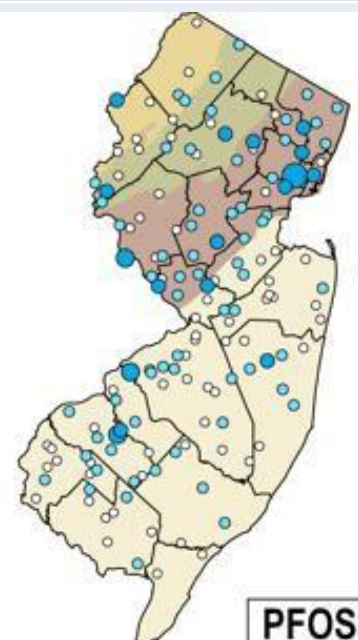
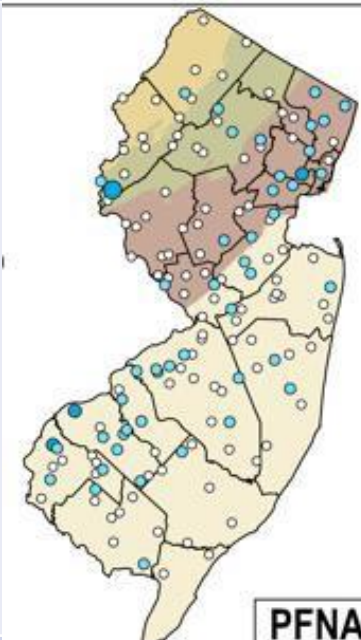
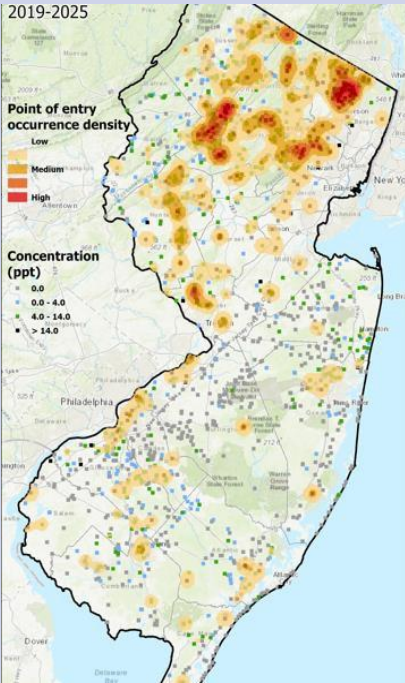
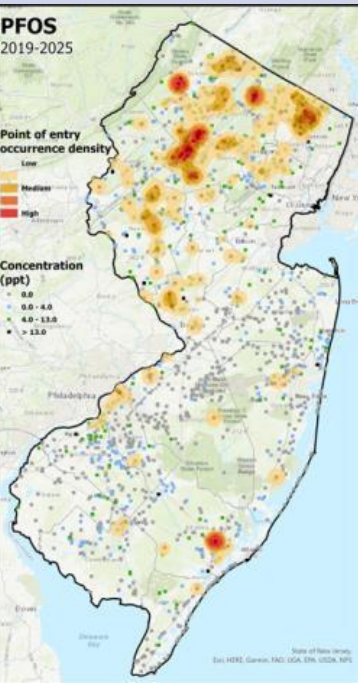
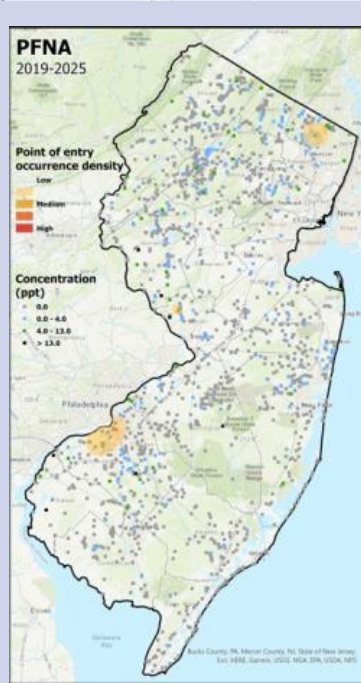
- UCMR 5 much wider range of PFAS compounds.

2024

- EPA finalized Federal primary drinking water standards for 6 PFAS (PFOA, PFOS, PFNA, Gen X, PFHxS, and PFBS).

2025

- Commissioner wrote a letter to DWQI to evaluate EPA's PFAs rule. DEP/DWQI also evaluating statutory requirement to evaluate PFAS as a class. Request for Information for monitoring data for 40 PFAS analytes for New Jersey's 17 Delegated Local Agencies who permit industrial users.

Contaminant	PFOA	PFOS	PFNA
Surface Water PFAS (at least one) found in over 90% of rivers and streams sampled.			
Groundwater PFAS (at least one) found in 79% of wells sampled			
Public Water Systems 97 PWSs have received at least one PFAS MCL violation.			

Standard & Policy Development

Standards

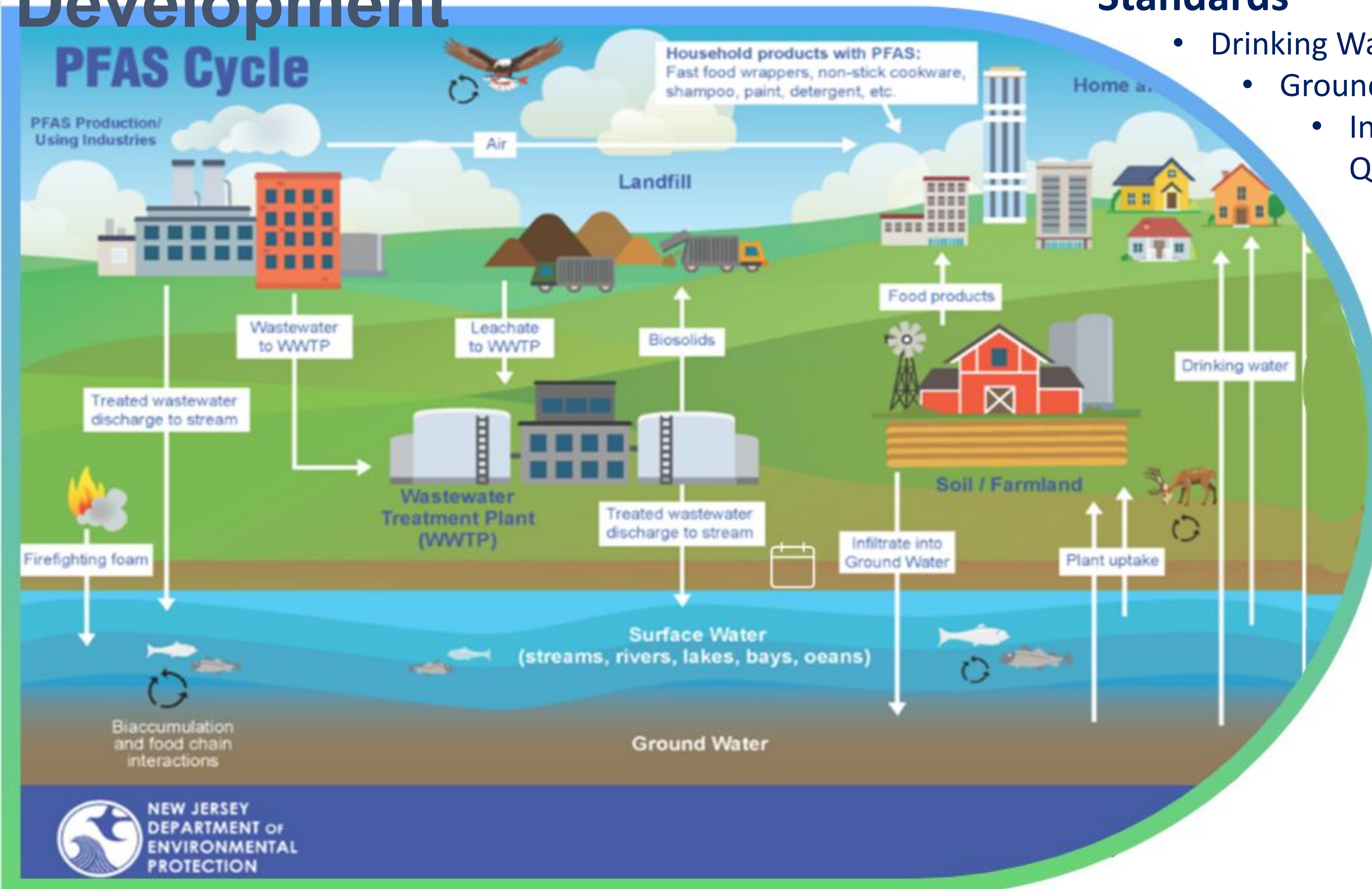
- Drinking Water MCL's
- Ground Water Quality Standards
- Interim Ground Water Quality Standards
- Private Well Testing Act

Developing Standards

- Surface Water Quality Standards
 - Freshwater
 - Saline

Policies

- Wastewater and Biosolids Data Requests
 - Wastewater database
- Fish Advisories



Drinking Water



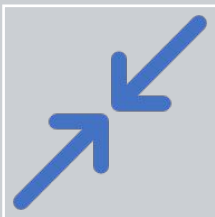
PFAS NJ MCL Implementation



NJDEP proposed and adopted MCLs based on the DWQI* recommendations for PFNA and PFOA & PFOS.



Monitoring requirements for PFNA started to become effective in 2019 and for PFOA and PFOS became effective in 2021.



Continually working with systems which have exceeded the MCLs to return to compliance.

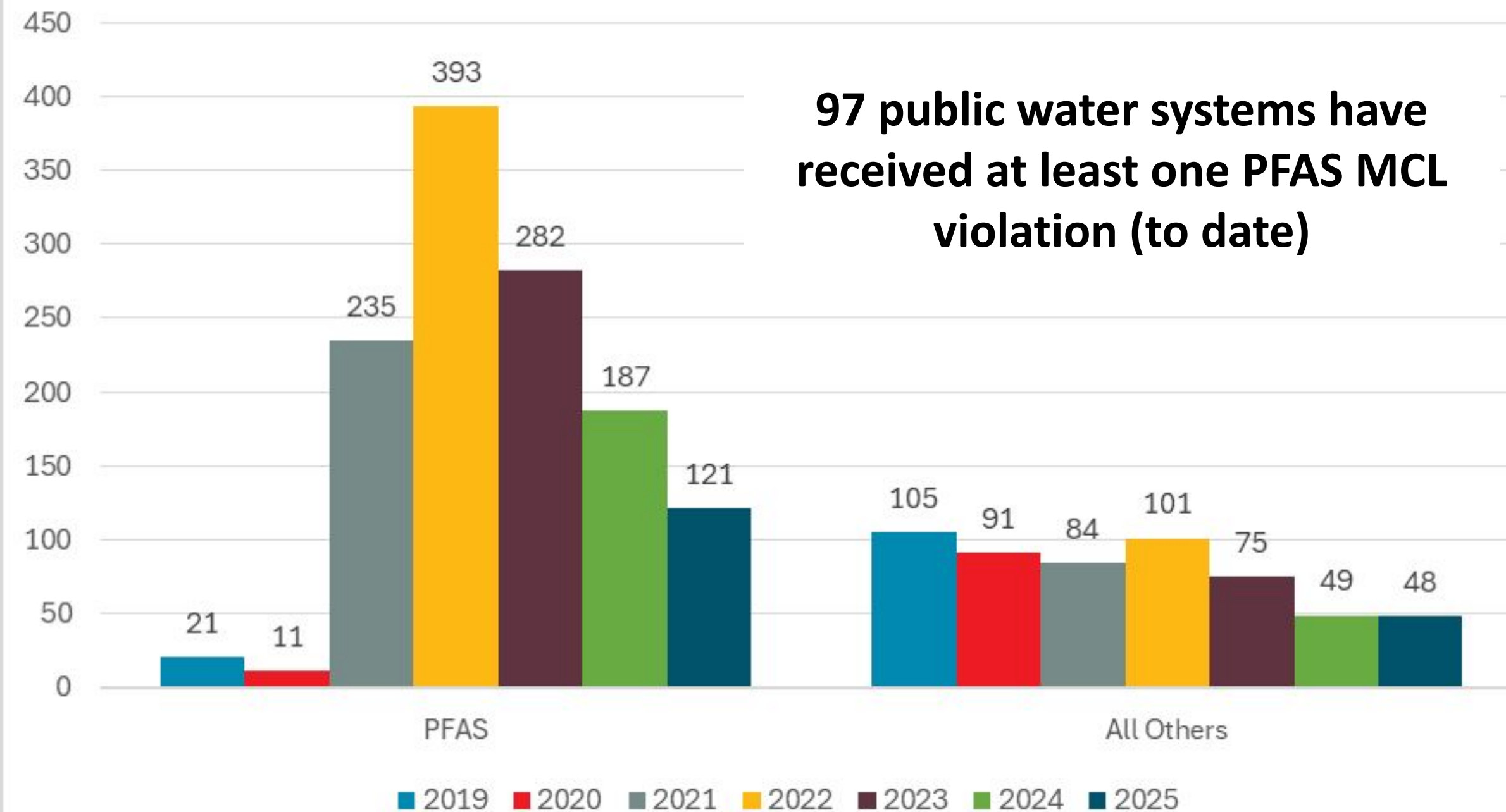
Analyte	Standard	Adopted
PFNA	13 ppt	1/16/2018
PFOA	14 ppt	6/1/2020
PFOS	13 ppt	6/1/2020



PFAS NJ MCL Implementation

MCL Violations

97 public water systems have received at least one PFAS MCL violation (to date)



Compliance Assistance Path

Water systems have 1 year to achieve compliance – there are challenges.

Department works with water system to come back into compliance.

Done through Administrative Consent Orders, no penalties, and tracking of milestones.

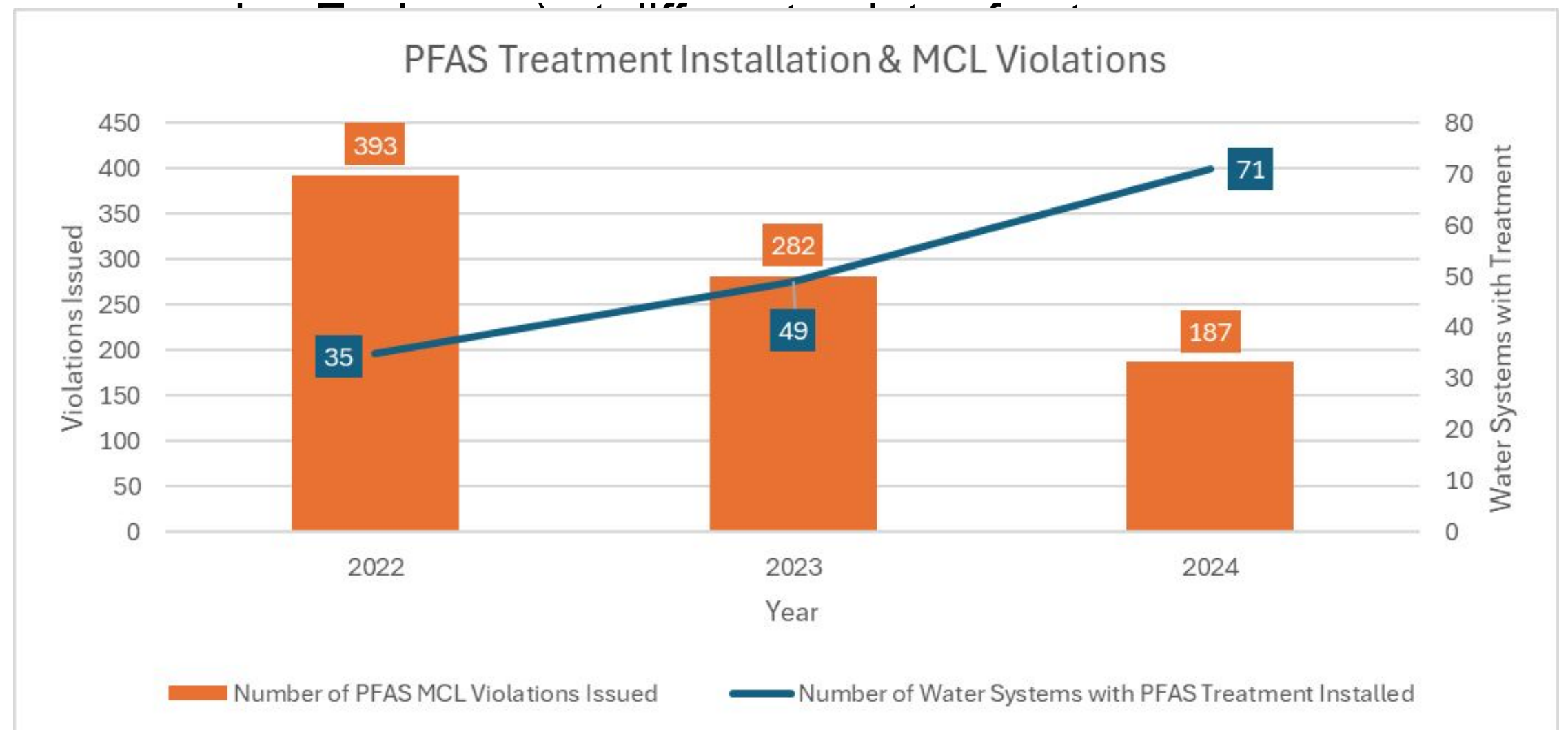


PFAS NJ Treatment Installation



116 permits issued for PFAS treatment to **83 water systems**.

- 18 of the 83 water systems have been issued more than one permit due to the installation of treatment at different points of entry.
- 4 of those 18 systems use different treatment methods (GAC and

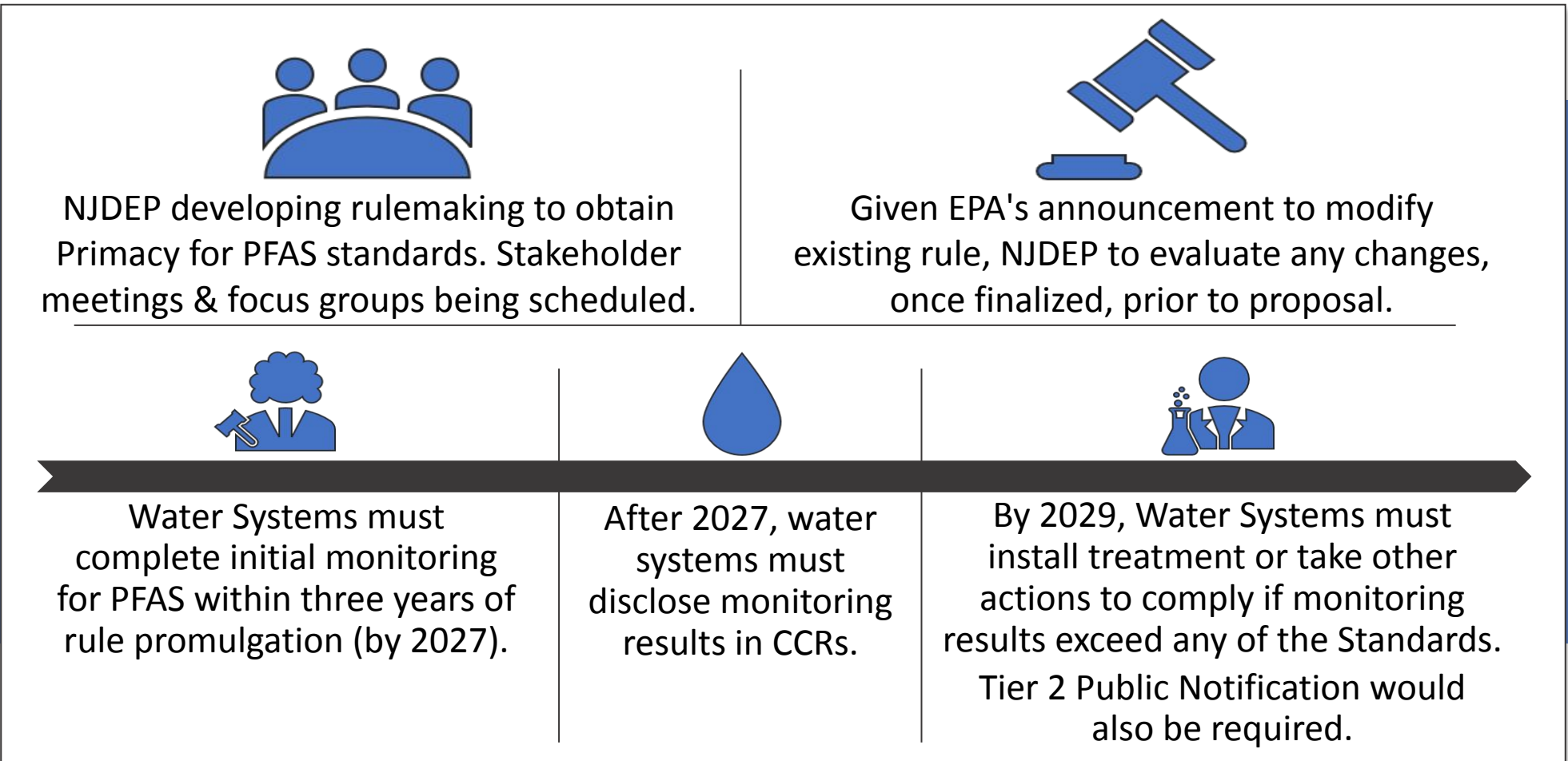


Evolving EPA PFAS Drinking Water Standards/Implementation

Contaminant	2016 EPA Health Advisory (ppt)	NJDEP MCL (2019 & 2021) (ppt)	2022 EPA Interim Health Advisory Level (ppt)	2024 EPA Final Standards (ppt)
PFOA	70*	14	0.004	4.0
PFOS	70*	13	0.02	4.0
PFNA	N/A	13	<i>N/A</i>	<i>10**</i>
<i>PFBS</i>	<i>N/A</i>	<i>N/A</i>	<i>2000</i>	<i>2000**</i>
<i>Gen X</i>	<i>N/A</i>	<i>N/A</i>	<i>10</i>	<i>10**</i>
<i>PFHxs</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>10**</i>

- 5/14/2025 - EPA Announces Intent to Modify Regulations. Not finalized, NJ is moving forward with implementation of initial rule adoption until EPA formalizes modifications.
- Currently, no NJ systems have had detections of PFBS, Gen X, or PFHxs that don't also already have PFOA or PFOS.

*Combined for both contaminants
 ** EPA has developed a combined "Hazard Index" for these PFAS, which is unitless based on a formula comparing the concentration of each contaminant, however this, as well as PFAS has been reported to be removed from EPA's standards



Based on monitoring data as of November 2025, over **200 additional water systems** are expected to incur an EPA MCL violation for at least one PFAS analyte.

Wastewater



Wastewater PFAS Strategy



Division of Water Quality PFAS Strategy: Identify, Reduce, and Eliminate sources of PFAS

On January 17, 2023, the Commissioner signed [Administrative Order 2023-01](#)  to encourage the collection of data that will aid in efforts to identify, reduce and eliminate sources of PFAS in wastewater and its residuals.



Discharge to Surface
Water and Pretreatment
Permits

[Read more](#)



Discharge to Ground
Water Permits

[Read more](#)



Residuals, Biosolids,
and Sewage Sludge
Permits

[Read more](#)



PFAS Data Collection

[Read more](#)



DEP PFAS

[Read more](#)



PFAS Approach - Wastewater

Identify

and characterize sources of PFAS through data collection

Identify

Reduce

Eliminate

Eliminate

PFAS sources and discharges through effluent limits which requires treatment

TARGET THE SOURCE

Reduce

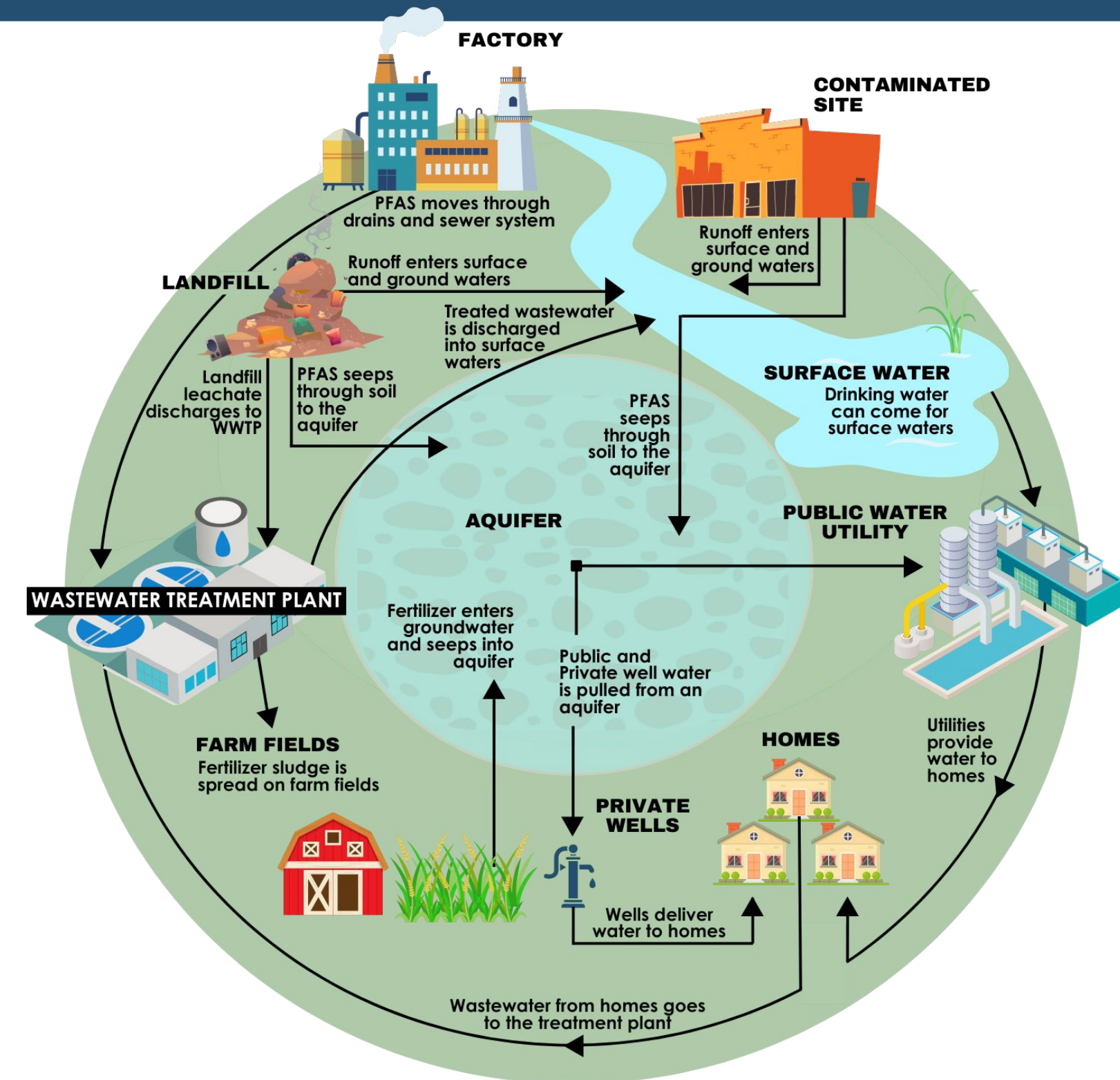
the use and discharge of PFAS through source reduction measures



PFAS Water Cycle

Top Action Items:

- ❑ Prioritization of data collection from various media sources
- ❑ Outreach and collaboration with 17 Delegated Local Agencies (DLAs) who permit 630 Industrial users
- ❑ Influent, effluent and residuals data collection from DLAs
- ❑ Continue to add monitoring and reporting requirements to permits issued to landfills and industrial facilities
- ❑ Incorporate technology-based limits for organic chemical manufacturers
- ❑ Modify permits that authorize land application of residuals (3 Class B sites) based on groundwater data
- ❑ Continue to modify permits that discharge to Groundwater for all industrial sites and larger sanitary sites
- ❑ Ability to provide principal forgiveness loans for wastewater projects to address PFAS





Publicly Owned Treatment Works Delegated Local Agencies (DLAs)

- To further the Department's PFAS initiative, additional Request for Information letters have been issued on Nov. 20, 2025 to 17 DLAs.
- Beginning Jan. 2026, DLAs are required to take monthly samples of effluent and residuals.
- This request also requires the submission of progress reports to document source control measures and pollution prevention strategies.
- This request follows a previous Request for Information issued on Jan. 13, 2025, requiring DLAs to sample quarterly for PFAS analytes.

[DLA Request for Information - PFAS Monitoring and Progress Reports](#)


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DIVISION OF WATER QUALITY
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PHILIP D. MURPHY
Governor

TAHESHA L. WAY
Lt. Governor

SHAWN M. LATOURETTE
Commissioner

Via Email Only
November 20, 2025

[Delegated Local Agency Name]

**Re: Delegated Local Agency
Request for Information – PFAS Monitoring and Progress Reports**

Due to the risks to public health and safety and the environment and increasing public and regulatory concern surrounding per- and polyfluoroalkyl substances (PFAS), the New Jersey Department of Environmental Protection (Department) is actively working to determine the nature and extent of PFAS at New Jersey Pollutant Discharge Elimination System (NJPDES) permitted facilities. The Department is also working towards proposing surface water quality standards for certain PFAS. Additional information can be found here: [NJDEP New Jersey Department of Environmental Protection | Surface Water Quality Standards \(SWQS\) stakeholder meeting](#). To further investigate the presence of PFAS in the State's waters and in preparation for the standards, numerous permittees, across varying facility types, have submitted PFAS data to the Department. The Department appreciates the work completed so far.

On January 13, 2025, the Department transmitted letters to the State's 17 delegated local agencies (DLAs) that required sampling during 2025 for PFAS in wastewater and residuals. The Department is pleased to report that it has received data from all DLAs for the first, second, and third quarters of 2025 and has analyzed the data received. The data revealed that all DLAs have detectable levels of PFAS in varying concentrations. Given the results of the first two sampling events, the Department has determined that additional information is necessary to inform future actions. This letter is written to follow-up and expand upon the ongoing data collection effort.

As detailed below, the Department is requiring sampling and progress reports regarding PFAS pursuant to N.J.S.A. 58:10A-10.3a and N.J.A.C. 7:14A-2.11(a) and 6.2(a)14. In accordance with N.J.A.C. 7:14A-2.11(a), based on the data received thus far, the Department has reason to believe that your facility has information relevant to the discharge of PFAS, a pollutant. See N.J.A.C. 7:14A-2.1 (defining "hazardous substance," "pollutant," and "toxic pollutant"); see also N.J.A.C. 7:1E, Appendix A. In accordance with N.J.A.C. 7:14A-6.2(a)14, the data received, totaling 16 sampling events between 2025 and 2026, will aid the Department in determining appropriate further actions including whether permit requirements are necessary to control the discharge of PFAS and the extent of future requirements.



PFAS Success Stories

Examples of Permitting in Practice

- ✓ Effective treatment at remediation and construction dewatering sites.
- ✓ Inclusion of monitoring for PFNA, PFOS and PFOA for priority Discharge to Ground Water permits.
- ✓ Inclusion of monitoring for PFAS for priority Discharge to Surface Water permits and Significant Industrial User permits.
- ✓ Request for information to Delegated Local Agencies for effluent and residuals on a monthly basis beginning January 2026.
- ✓ Request for information to Class B Land Application Residual sites for ground water monitoring.

Ongoing Collaboration and Research:

- ☐ Internal/External PFAS Water Working Group (including site visits)
- ☐ Permitting Solutions Team
- ☐ New Jersey's Clean Water Council
- ☐ NJWEA Conference Outreach
- ☐ Wastewater Treatability Study with Division of Science and Research
- ☐ NJDEP Permitting Site Visits by Surface Water and Pretreatment Staff



PFAS Treatment Challenges

Regulatory
Changes

Space

Supply Chain

Competing
Priorities

\$\$\$\$\$

Public
Demand for
Transparency

Contributions
from Domestic
Sources

PFAS Treatment Funding



Technical Assistance for Small and DACs

States have flexibility to utilize IJA set-asides for program implementation. NJDEP will be using a portion of these funds for available technical assistance programs.

Focus to assist water & wastewater systems that:

- **Serve small and disadvantaged communities** with Lead, PFAS, and SDWA compliance issues, CSOs, sewer infrastructure rehab and upgrades and more.
- **May lack sufficient resources** to perform full assessment of needs (e.g. LSLIs, AMPs, CIPs)
- **May lack financial, managerial, and/or community support** for infrastructure projects and require assistance with stakeholder outreach & engagement
- **May not be aware of funding opportunities or lack familiarity** and comfort with navigating Water Bank program application process
- **May need eventual engineering services** to assist with planning and design



Program Navigation



Financial and Needs Assessments



Community Engagement



Engineering Services (DW only)



Technical Assistance for Small and DACs

Participants in the CWSRF and DWSRF Technical Assistance Programs qualify for up to \$2 million in grants for planning and design and guaranteed principal forgiveness for a resulting capital improvement project.

<https://dep.nj.gov/wiip/njwb-process/technical-assistance-info/technical-assistance>



New Planning and Design Grants

(\$60 million total) for sponsors participating in the DW and CW Technical Assistance Programs.

100% Grant Funding
\$2 Million Cap per Project



Guaranteed funds for capital improvement projects

(\$60 million total) for sponsors participating in the DW and CW Technical Assistance Programs.

100% Principal Forgiveness
\$2 Million Cap per Project



PFAS Treatment Funding

Drinking Water State Revolving Fund

Principal Forgiveness
(\$2M Cap)
100%

As of November 2025:

- 30 projects have been funded totaling \$256M in loans with \$71M in principal forgiveness.

Emerging Contaminants in Small or Disadvantaged Communities Grant (ECSDC)

- New Jersey's workplan targets 20 systems statewide
- FY22-23 Combined Allotment of \$66M
- FY24 Allotment of \$33M



Remaining Loan Share

DEP Loan Share
(No Interest)
75%

I-Bank Loan Share

FFY2025 State Base, FFY2026
Final IUPs



Clean Water State Revolving Fund

Principal Forgiveness
(\$10M Cap)
100%

As of October 2025 :

- There is one (1) project on the Clean Water Priority Project List to address PFAS in wastewater





2025 PFAS Drinking Water Treatment!

Project Sponsor	Project Name	Initial Loan Award Date	Loan Amount	Principal Forgiveness
Aqua New Jersey Inc.	Summit Lake PFAS	6/25/2025	\$ 1,786,708	\$ 1,786,708
Essex Fells Borough	Permanent PFAS Treatment (Country Club Facility)	2/12/2025	\$ 2,739,295	\$ 2,000,000
Jefferson Township	Moosepac Well Filtration (PFAS Treatment)	8/27/2025	\$ 4,000,000	\$ 3,000,000
Merchantville Pennsauken Water Commission	Frosthoffer GAC plant	6/25/2025	\$ 9,055,133	\$ 2,000,000
NJ American Water Company	Netherwood PFAS Treatment	11/12/2025	\$ 14,588,817	\$ 3,000,000
Park Ridge Borough	Well 21 Treatment Plant Construction	6/25/2025	\$ 3,018,901	\$ 2,000,000
Pequannock Township	PFOS & PFOA Treatment for Well #1	11/19/2025	\$ 4,923,000	\$ 3,000,000
Verona Township	Fairview Wells	10/22/2025	\$ 3,586,346	\$ 3,000,000
			Total: \$43,698,200	Total PF: \$19,786,708

Total Loan \$ Since 2020: \$256,939,227

Other Department Initiatives



Other WRM/DEP PFAS Initiatives



PFAS Strategy



PFAS Summit



PFAS Survey



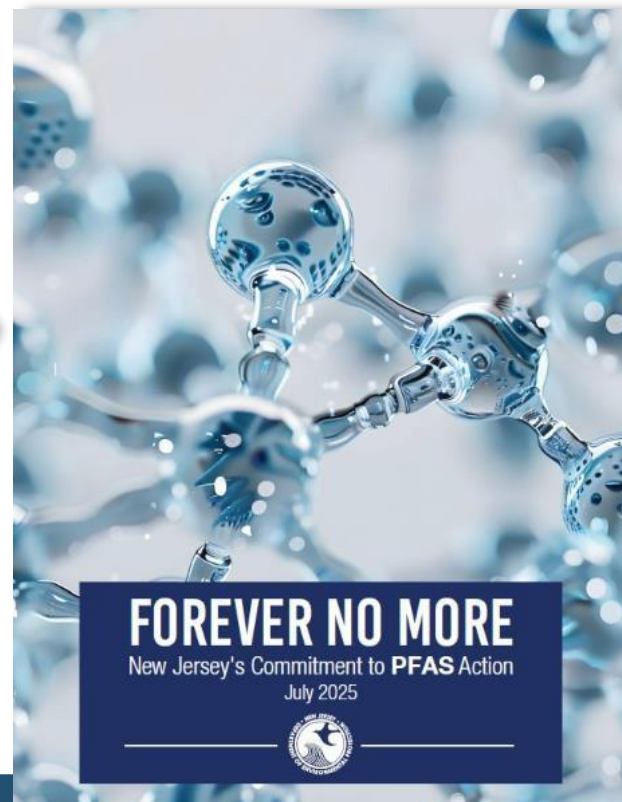
**DWQI –
Evaluation of
Regulation of
PFAS as a Class**



**Holding
Polluters
Accountable**



**PFAS Water
Working Group –
PFAS Permitting
Solutions Team**





Quick Peek at DRAFT PFAS Survey Results

**1,615 unique responses
from 222 zip codes**

Majority of participants had heard of PFAS

Get PFAS info from news media like print and television, environmental organizations, and government organizations

The most trusted sources for PFAS information: NJ DEP, local water utilities, and US EPA

DRAFT analysis not for distribution

Most participants reported wanting PFAS information shared via email, mailings, and websites

Over 300 written comments and questions for future follow up

THANK YOU



**POLICIES, CHALLENGES & OPPORTUNITIES
TO REDUCING FUTURE USE, CONTAMINATION & EXPOSURE to PFAS**

**Amy Goldsmith
New Jersey State Director**

~

Jersey Water Works Conference
December 2025

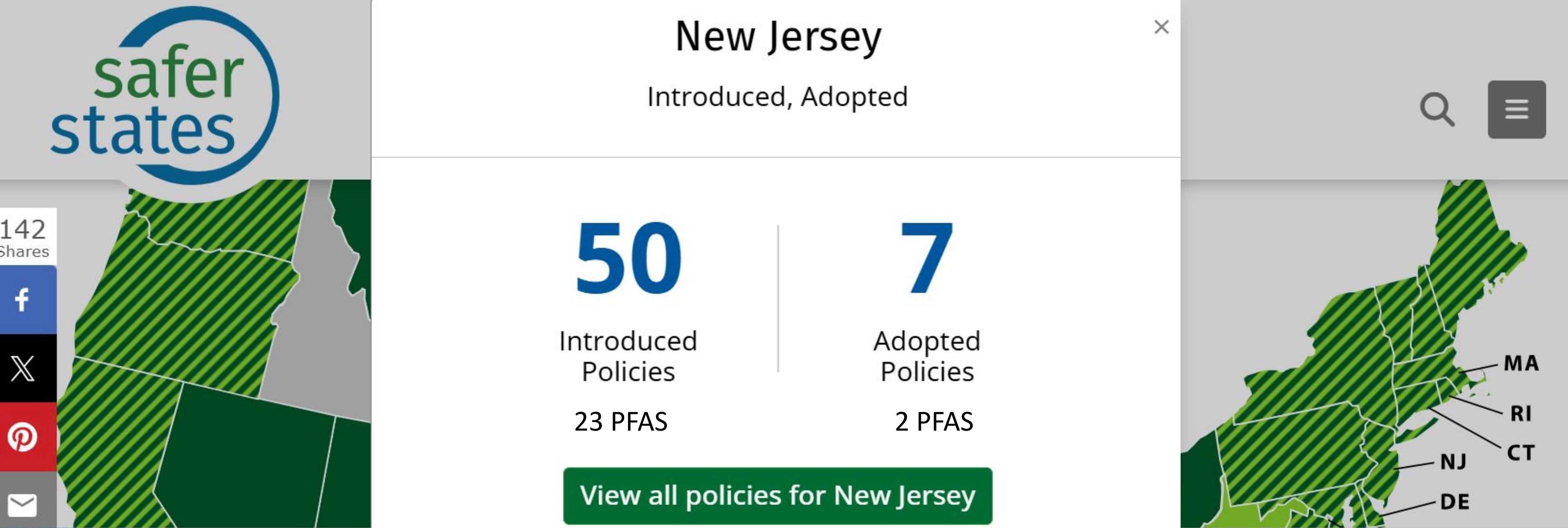
PFAS etc. EVERYWHERE & FOREVER



BRANDS & RETAILERS STEPPING UP

- Ahold Delhaize (Food Lion, Giant, Hannaford, Stop & Shop, Peapod)
- Albertsons (Safeway, Vons, Shaw's, Randalls, Haggen, Carrs)
- Amazon
- Deckers Brands
- H&M
- Home Depot
- IKEA
- Jack Wolfskin
- Lowe's
- Milliken & Co.
- Office Depot
- Patagonia
- Polartec
- REI
- Staples
- Sympatex
- Target
- Trader Joe's
- Whole Foods Market
- Zara

BILL TRACKER



<https://www.saferstates.org/bill-tracker/>

Class-based PFAS phase-outs in key sectors with implementation years

	All Products	Apparel	Carpets / Rugs	Cleaning Products	Cookware	Dental Floss	Fabric Treatments	Firefighting Foam	Food Packaging	Juvenile Products	Menstrual Products	Oil & Gas Products	Personal Care Products	Pesticides	Ski Wax	Sludge (biosolids)	Textile Articles
California		★ 2025	2021**				2022**	2022	2023	2023			2025				★ 2025
Colorado		2028	2024	2026	2026	2026	2024	2024	2024	2024	2026	★ 2024	★ 2025		2026		2028
Connecticut		2028	2028	2028	2028	2028	2028	2021	2023	2028	2028		2028		2028		2028
Hawaii								2024	2024								
Illinois								2025									
Maine	2032	2029	2023	2026	2026	2026	2023	2022	2022	2026	2026		2026	★ 2030	2026	★ 2022	2026
Maryland			2024					2024	2024				2025*				
Minnesota	2032		2025	★ 2025	★ 2025	★ 2025	2025	2024	2024	2025	★ 2025		2025		2025		2025
New Hampshire								2020									
New Jersey								2026									
New York		2025	2024					2020	2022								
Oregon									2025	2023**			2027				
Rhode Island			2027		2027		2027	2025	2024	2027	2027		2027		2027		2027
Vermont		2028	★ 2023		2026		★ 2023	2023	2023	2026	2026		2026		★ 2023		2026
Washington	★ 2023**		2023				2023	★ 2020	★ 2022				2025				2023

NJ: EARLY LEADER ON PFAS

Policies to Stop Production, Use and Contamination

Pending NJ legislation – close to passage in 2025 :

Menstrual Products	- S. 3669 (Ruiz) A. 4767 (Swain)	➡	2 nd Reading Commerce Comm. Vote Unanimous Passed Assembly 78-0-0
Apparel -	S.4798 (Greenstein) A.5260 (Ramirez)	➡	2 nd Reading/reported out of Commerce Comm. Passed Assembly 55-19-5
Firefighting Gear	S.3946 (Greenstein) A.5195 (Miller)	➡	2 nd Reading Commerce Comm. Vote Unanimous Passed Assembly 78-6-4

For Next Legislative Session (2026-27):

Artificial Turf	- S. 3783 (Mukherji)
Packaging (EPR)	- S. 3398 (Smith)
Hair Products	- S.4477 (Ruiz)

WHO ARE WE UP AGAINST ?

- Cookware Association
- Car manufacturers
- Electronics manufacturers
- Semiconductor industry
- Medical Devices companies
- Pharmaceutical industry
- Kids products industry (Juvenile Products Manufacturing Association)

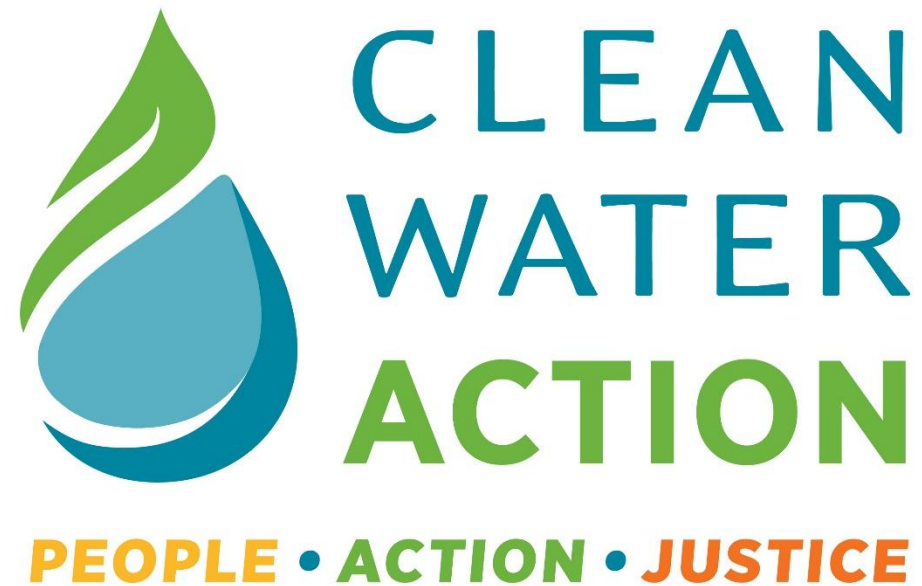




COLLABORATIVE ADVOCACY & PARTNERSHIPS CAN STOP FUTURE PRODUCTION, USE & HARM

- People Who Are Harmed
- Consumers
- States Legislatures, Agencies and Attorney Generals
- Retailers, Product Manufacturers & Corporations
- Municipalities
- Drinking Water Utilities
- Sewage Authorities
- Trade Associations
- Academic Institutions
- Advocacy Groups
- Waste Management Companies





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Molly Cleary, Environmental Advocate (PFAS)
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Marta Young, Zero Waste Specialist (EPR/Plastics)
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TAKE ACTION in NJ : <http://bit.ly/4492nYd>
www.cleanwater.org/nj

OTHER RESOURCES:

- CLEAN WATER ACTION - <https://cleanwater.org/our-priorities/toxic-chemicals>
- SAFER STATES - Technical & Policy Expertise
- TOXIC FREE FUTURE (MIND THE STORE) - Retailer Report Card & Corp. Campaigns
- CAMPAIGN FOR SAFE COSMETICS – Educate and Transform Beauty Industry

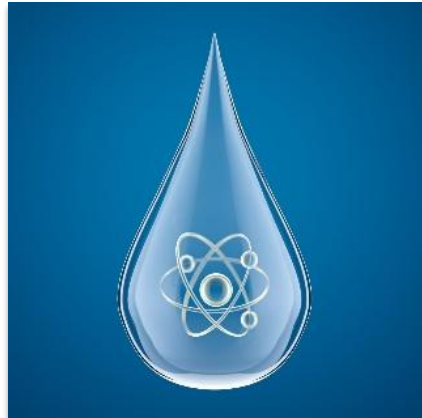


Mitigating PFAS in New Jersey's Drinking Water

Donald C. Shields, P.E.
Vice President, Engineering

Introduction & Overview

Mitigating PFAS in New Jersey's Drinking Water



PFAS Contamination Risks

PFAS are persistent chemicals that pose significant health risks through drinking water contamination.



NJAW's Proactive Efforts

New Jersey American Water employs innovative technologies and collaborations to ensure clean and safe water.



Community Engagement & Transparency

New Jersey American Water prioritizes transparency and community involvement while navigating regulations and implementing solutions.

Company Background

Who We Are – NJ American Water



PFAS Overview

Understanding PFAS



Strategic Approach

NJAW's PFAS Strategy

Treatment Technologies

Treatment Technologies

TECHNOLOGY	ADVANTAGES	CHALLENGES
Granular Activated Carbon (GAC)	Removes multiple contaminants, taste/odor benefits, reactivation destroys PFAS	Larger footprint, higher capital cost, frequent replacement
Ion Exchange (IX)	Smaller footprint, effective for short-chain PFAS	Requires pre-filtration, disposal via incineration, fouling risk



Piloting and Implementation

NJ Piloting & Implementation



Pilot Testing Overview

New Jersey American Water conducted six pilot projects testing various PFAS treatment technologies under different conditions.

Treatment Technologies Evaluated

Technologies tested included GAC, IX, and novel media, focusing on PFAS breakthrough and fouling metrics.

Cleaning Strategies Assessed

Backwash, chemical cleaning, and air scouring methods were evaluated to optimize system performance and maintenance.

Implementation Example

Short Hills Well Station installed a temporary IX system successfully removing PFAS to meet regulatory standards.

Stakeholder Engagement

Communication & Collaboration

Telling Your Story – Water Quality/Consumer Confidence Reports, Digital Channels, Media, FAQs

Important Information About Drinking Water

PFAS
Per- and polyfluoroalkyl substances (PFAS) are manufactured chemicals used in many household products including nonstick cookware (e.g., Teflon™), stain repellants (e.g., Scotchgard™), and waterproofing (e.g., GORE-TEX™). They are also used in industrial applications such as in firefighting foams and electronics production. There are thousands of PFAS chemicals, and they persist in the environment. Two well-known PFAS chemicals are perfluorooctanoic acid (PFOA) and perfluorooctane sulfonic acid (PFOS). These were phased out of production in the United States and replaced by hexafluoropropylene oxide-dimer acid (commonly known as GenX), perfluorobutane sulfonic acid (PFBS) and others.

The City of Camden Division of Utilities operated by American Water Contract Services is currently performing the three (3) with an MCI PFOS with a

EXPERTISE

Our Central Laboratory, located in Belleville, IL, is a U.S. EPA accredited lab with high throughput, fast turnaround time, and expanded capability for PFAS. The Central Laboratory is NELAP certified and prepared for UCMR 5 monitoring of 29 PFAS chemicals. UCMR 5 monitoring will be done with U.S. EPA methods 533 and 537.1. American Water is also using expanded technologies and analytical capabilities in our research labs to better understand the broader occurrence of these chemicals in the environment, including fluorinated replacements such as short-chain and other next generation PFAS chemicals.

HAS AMERICAN WATER ADDRESSED PFAS IN THE PAST?

Yes. We have successfully addressed PFAS in the past. Here are two examples:

- **Picatinny Arsenal, NJ:** In January 2018, American Water's Military Services Group made recommendations to remove PFOA/PFOS contaminants and were awarded a contract in April 2018 to install a temporary Granular Activated Carbon (GAC) system within 90 days. The American Water-led team kept the project ahead of schedule, completing the design, permitting, implementation, construction and treatment in just 38 days. Sample results were returned that showed PFOA/PFOS were at non-detect levels across the system, highlighting the effectiveness of the GAC treatment system.
- **Sacramento Region, CA:** California American Water applied for grant funding for PFAS treatment to address PFOA in a well in the Suburban-Rosemont system in July 2016, and in March 2017, the notice to proceed on construction of a treatment plant was issued. Four months later, California American Water learned that it was denied state grant funding due to lack of state guidance on the contaminant. However, the company continued with construction, and in September 2017, California American Water placed its new PFAS treatment unit into operation.

NEW JERSEY AMERICAN WATER

Stakeholder Engagement

NJAW uses reports, websites, FAQs, and social media to communicate PFAS mitigation efforts effectively.

Collaborative Research

Participation in Water Research Foundation projects strengthens risk communication and fosters research collaboration.

Knowledge Sharing

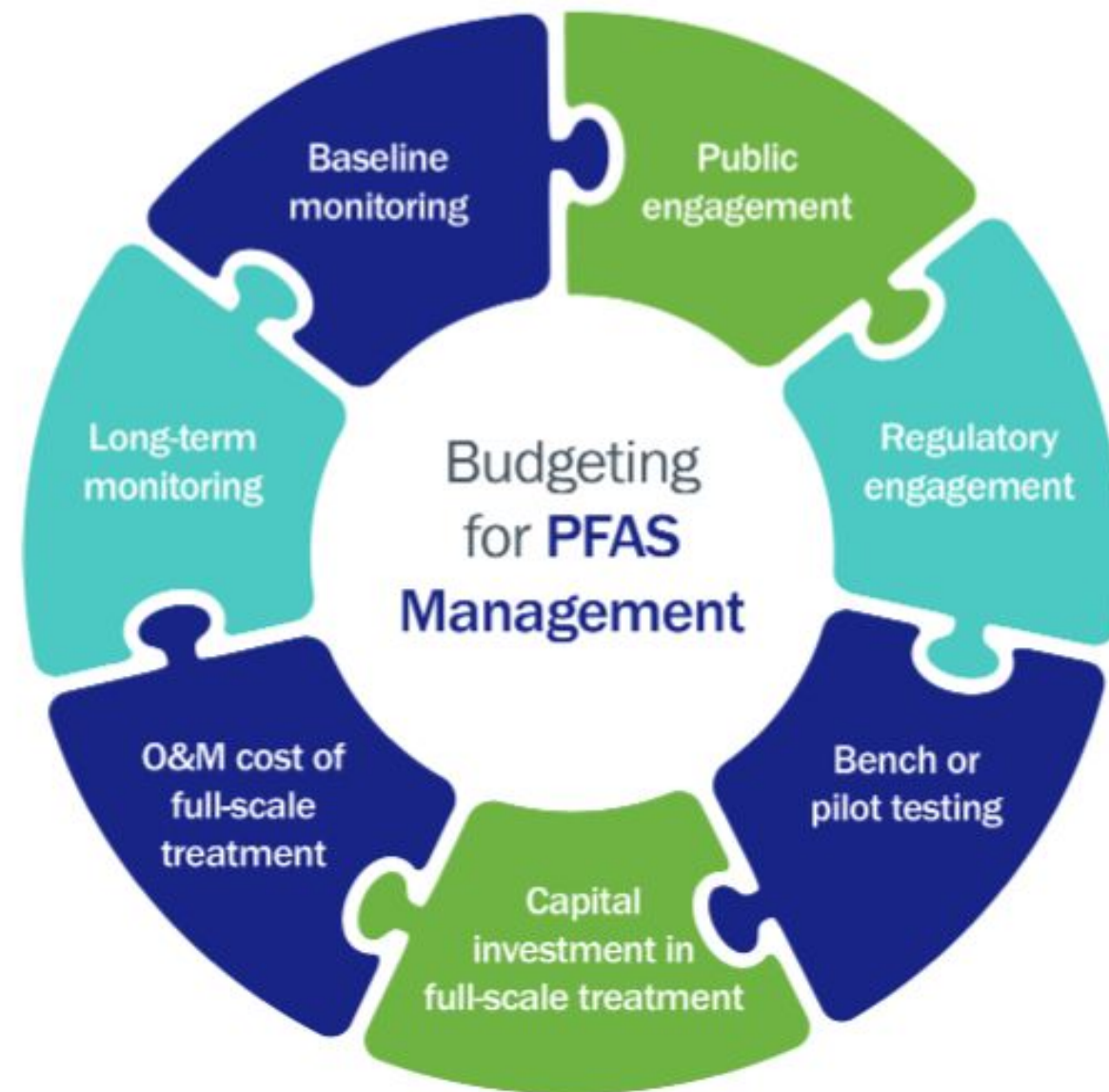
NJAW shares insights with regulators, consultants, and utilities to promote best practices and transparency.

Community Empowerment

Transparent communication empowers communities to understand PFAS risks and mitigation actions.

Future Outlook

Projected PFAS Treatment Costs



Source:
Consider the Hidden Costs of PFAS Treatment
AWWA OpFlow January/February 2021,
Patricia Whitby, Rosa Yu, Erin Mackey <https://doi.org/10.1002/opfl.1484>

Federal PFAS Drinking Water Rule Cost Headlines

- EPA estimates a total annualized national compliance cost of **\$1.5 billion** (20-year lifecycle)
- American Water Works Association (AWWA) estimates the total annualized national compliance cost of **\$3.9 billion to \$5.2 billion** (20-year lifecycle, 3% and 7% discount rates, 2022 dollars)
 - **\$47.4 billion initial capital cost**
 - **\$726 million annual operating cost**
- American Water's internal estimates for PFAS treatment across its footprint aligns more closely to AWWA's estimates (as scaled from AWWA's national compliance cost estimates)
 - **~\$2 billion initial capital investment for treatment at approximately 80 facilities across our footprint**
 - **Up to \$50 million annual operating cost**

Timely recovery of the investment made by American Water to treat the water supply and help ensure the safety of customers and communities it serves is important

—
Thank you!
—



Collaborating to remove PFAS

Ali Pajooman
PFAS Program Manager
Veolia Water New Jersey
Dec 11th 2025



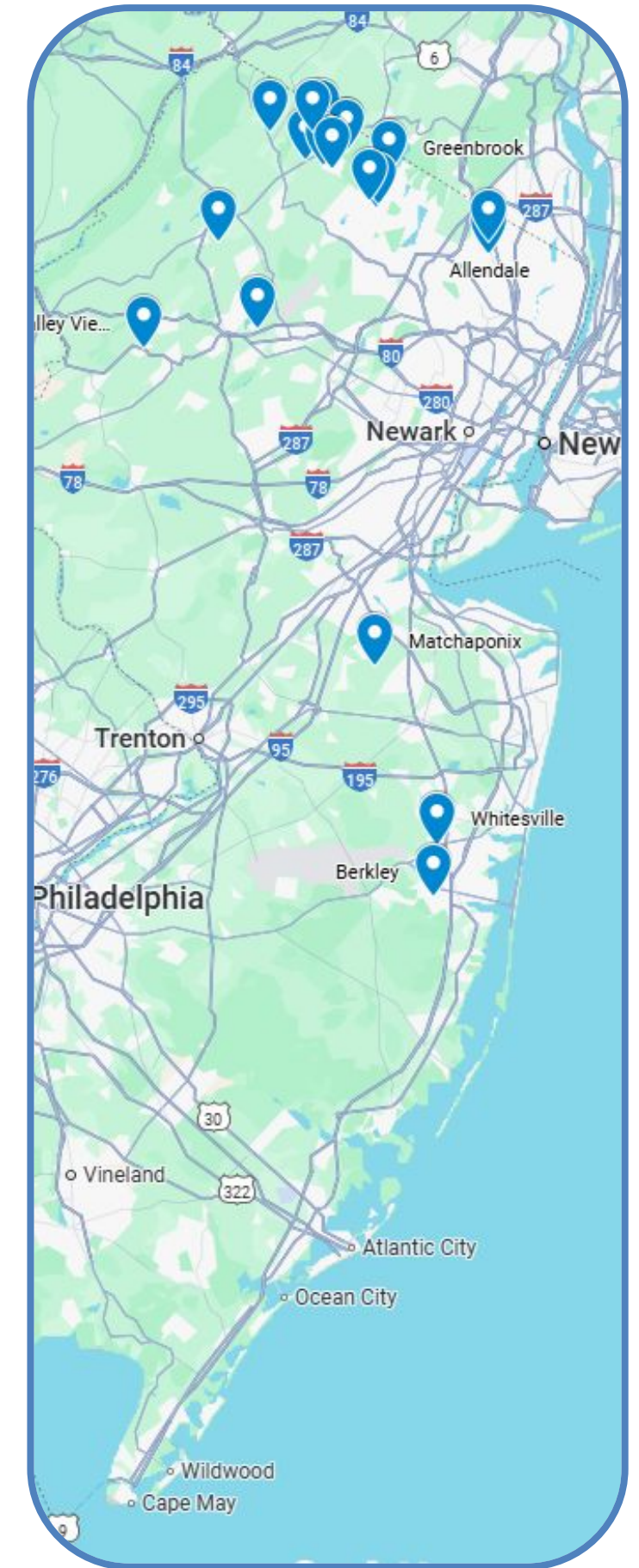
Disclaimer

The information contained herein is based on the Veolia group's understanding and know-how of the scientific, regulatory and technical fields discussed herein as of the time of publication. No contractual undertaking or offer is made on the basis hereof and no representation or warranty is given as to the accuracy, completeness or suitability for the purpose of the relevant information.

The PFAS Journey at Veolia

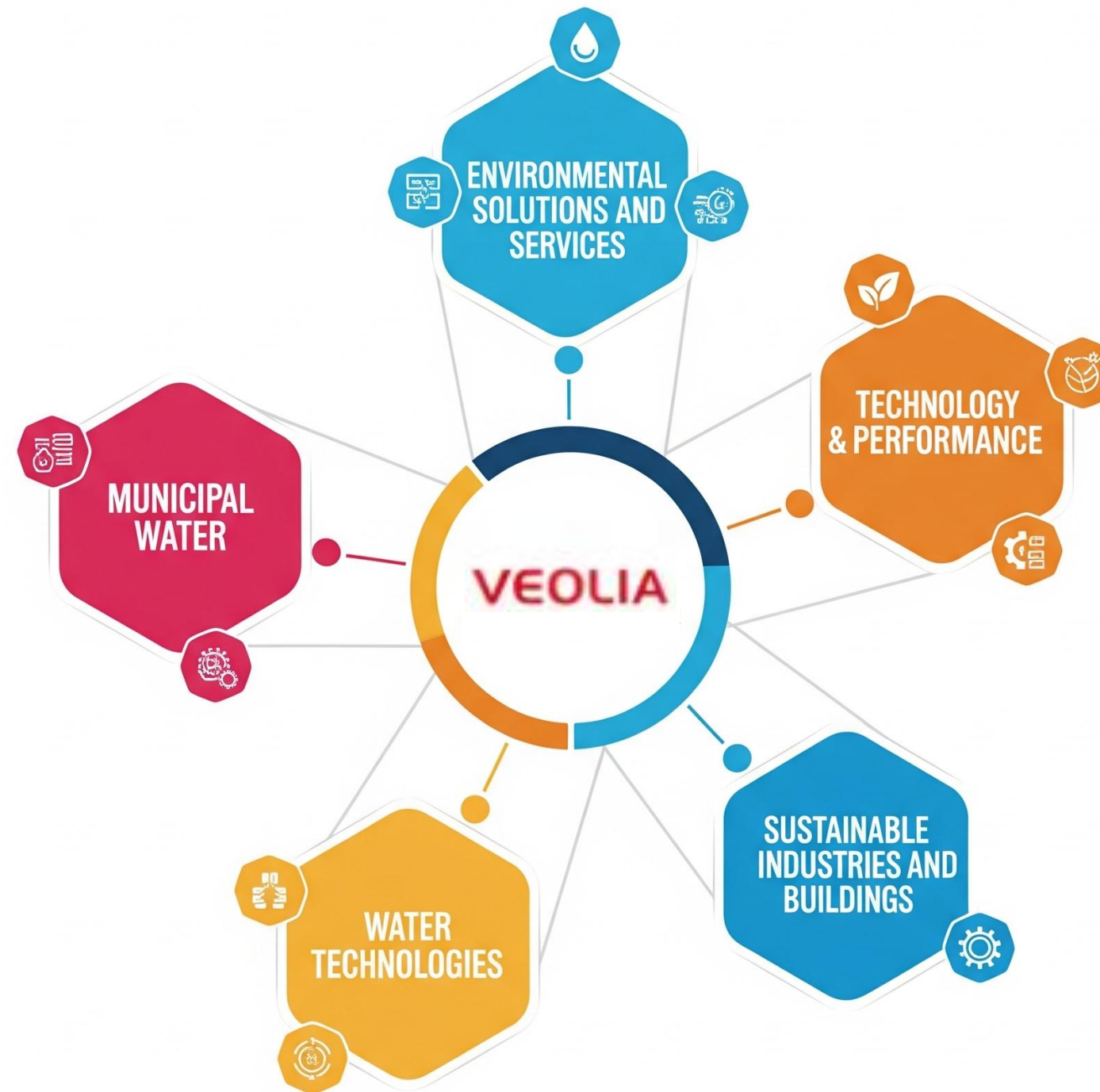
PFAS Treatment sites

- 10 Sites in service with PFAS treatment as part of the NJ State PFAS MCL in 2020
- 3 Sites with Phase 1 PFAS Treatment in place and in progress towards Phase 2
- 18 Projects currently in design to meet the EPA PFAS MCL in 2029



VEOLIA North America

We foster internal collaboration to help define our path forward



Treatment Considerations

- Bench testing of GAC and AIX media
- WQ considerations
- Capex Vs Opex
- Real estate
- Waste water treatment



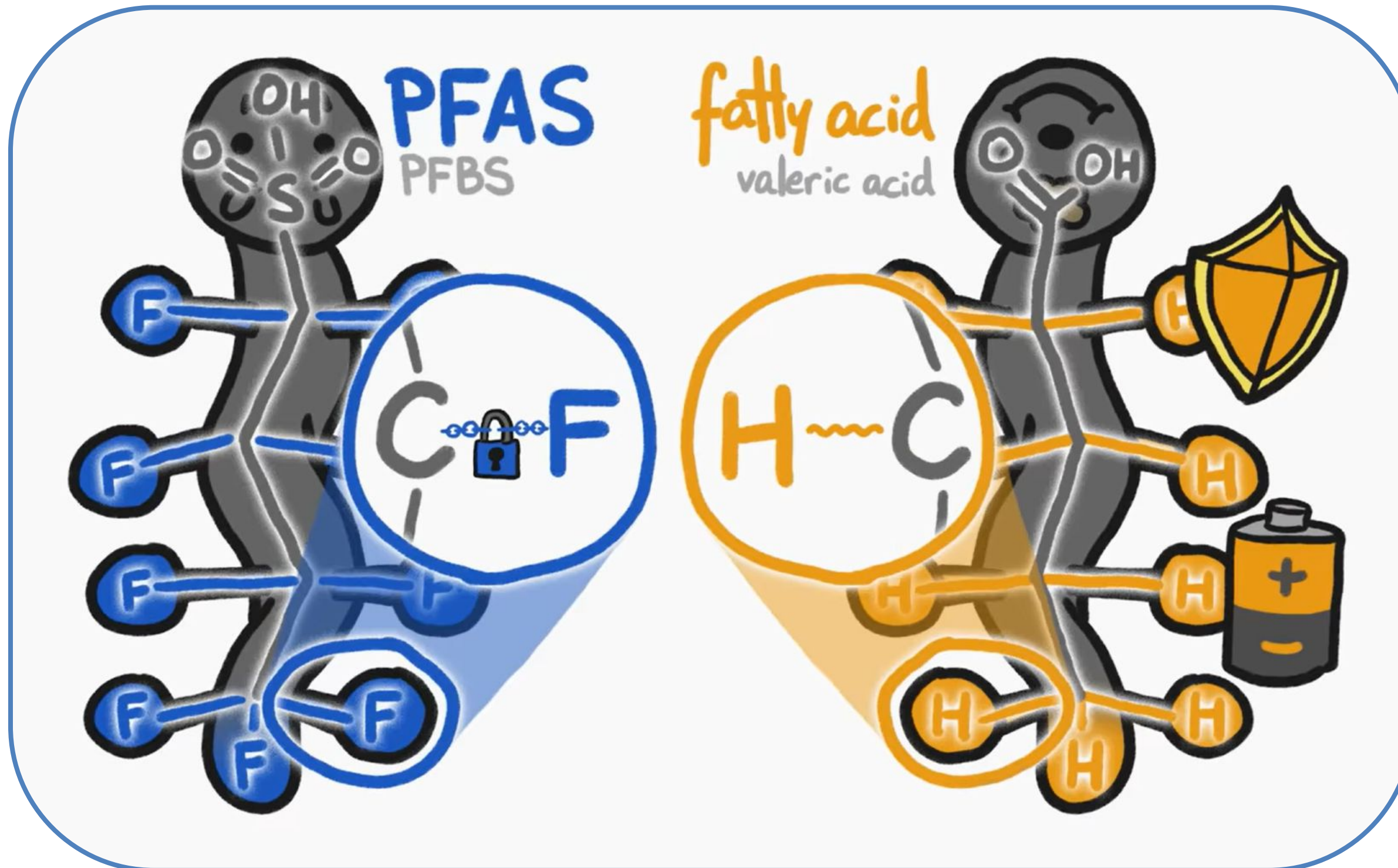
PFAS Technology selection

Assuming water quality is not a factor, wastewater and real estate impact are significant practical considerations that affect technology selection.



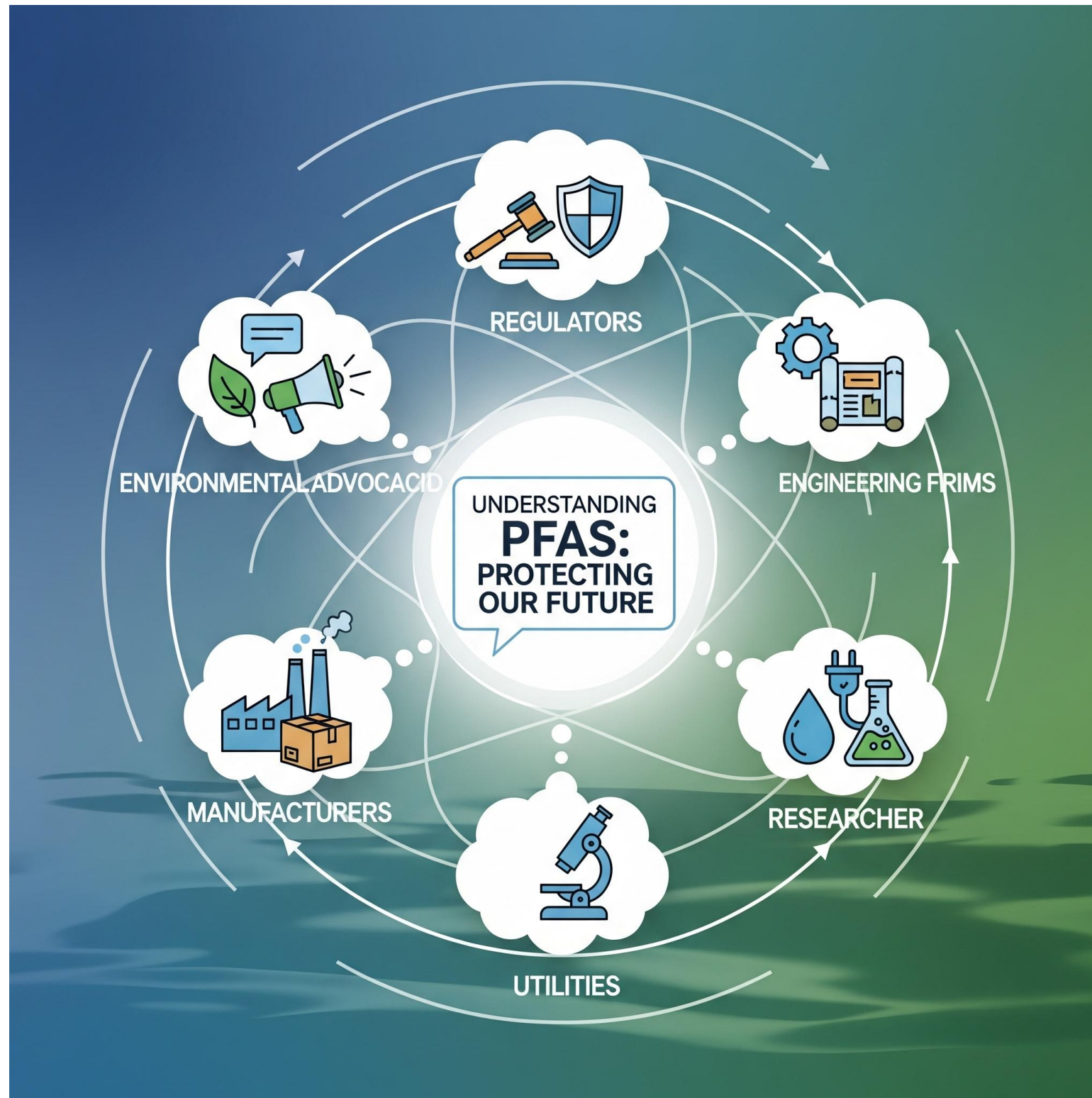
Why do we need to remove PFAS?

What Makes PFAS Hazardous, according to the National Institute of Health



Finding The Path

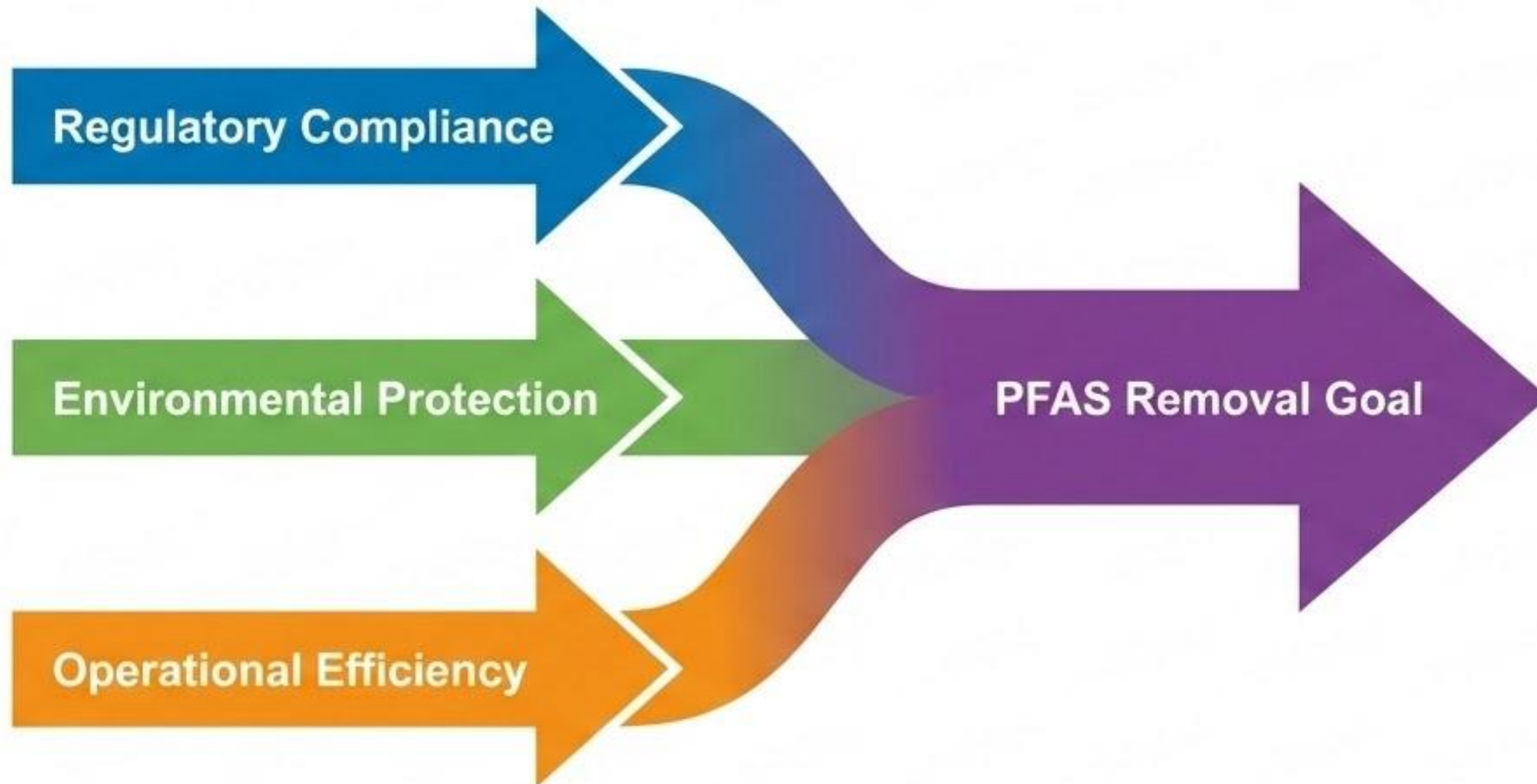
Everyone, Everywhere all at once!



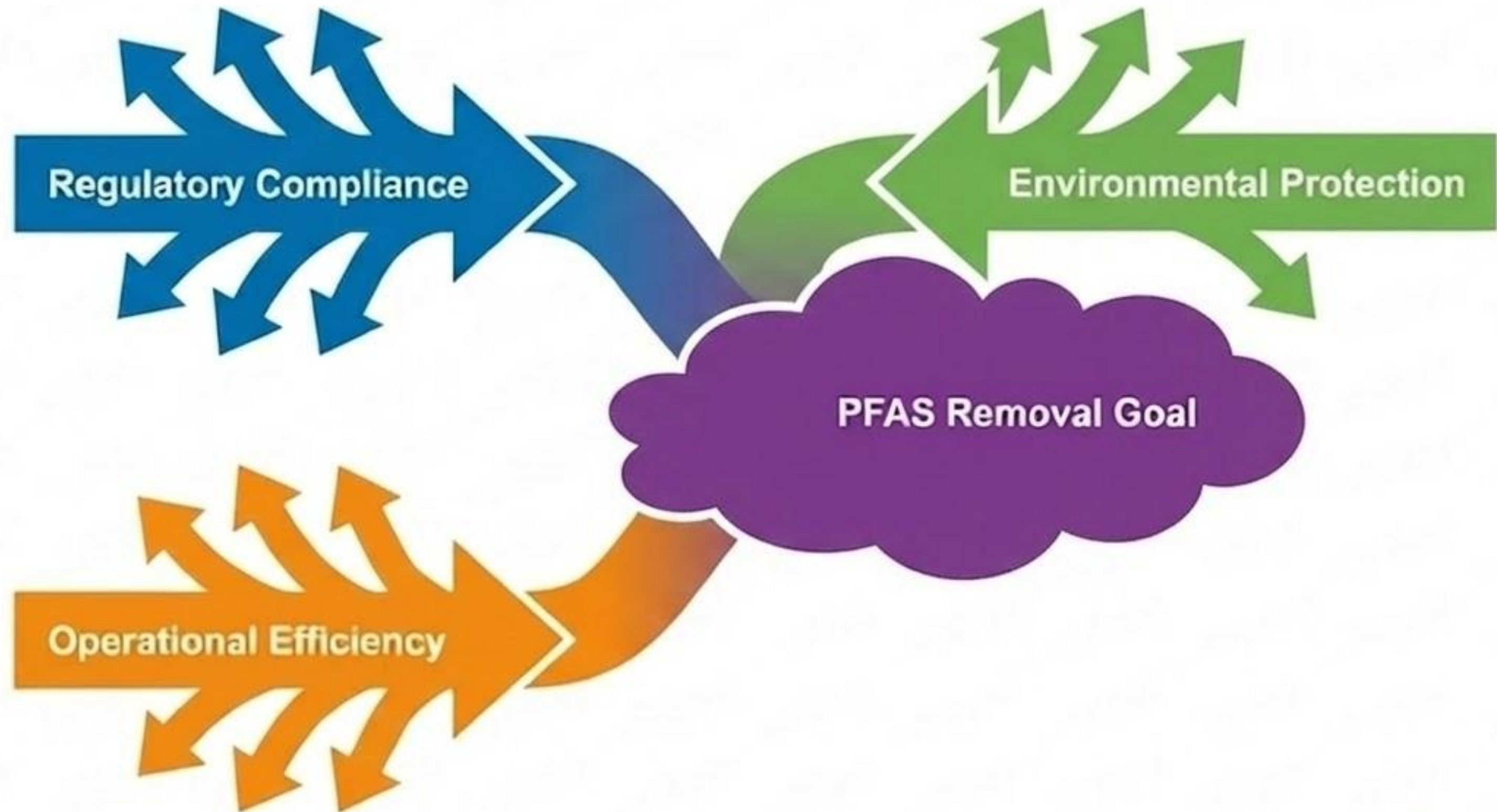
- All Water Utilities
- Same Regulations
- Fixed Timeline
- Fixed Resources
 - Materials
 - Funds
 - Land

Can lead to a Zero Sum Game

Alignment with Different Agendas?



Alignment with Different Agendas



Turn over every stone



- You don't know what you don't know
- Bring in your unique perspective
- Look for a different approach
- Seek information
- Agree on a single version of the truth

Collaborate!

Ali Pajooman, P.E.
Senior Program Manager
VEOLIA Water New Jersey, Inc.
Municipal Water
VEOLIA NORTH AMERICA, UNITED STATES

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Questions?

Numerous significant developments are occurring across the state concerning PFAS, making it essential for us to remain well-informed as we navigate these complex challenges. This session is a two-part session.

- In **Part 1, we'll map out the current landscape**, discussing the latest developments and challenges related to PFAS.
- **Part 2 will shift our focus to collaboration**, exploring the creation of a committee or task force designed to enhance our messaging and collective efforts.
- Attendees will have the opportunity to share insights, learn from one another, and develop a unified strategy to address PFAS concerns effectively.

Break

11:15 – 11:30 a.m.

Part 2: 11:30 a.m. to 12:30 p.m.



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CONNECTING THE DOTS: ORGANIZING OUR APPROACH TO PFAS CHALLENGES



JERSEY WATERWORKS **CONFERENCE** 2025

DECEMBER 11, 2025 | THE COLLEGE OF NEW JERSEY, EWING

OUR COMMITMENT TO FUTURE GENERATIONS

Jersey Water Works Collaborative brings together people with diverse backgrounds, perspectives, and expertise to address the challenges within New Jersey's water sector.

www.jerseywaterworks.org
info@jerseywaterworks.org

Thank you for joining us!

#njwater25

Welcome

Part 2: 11:30 a.m. to 12:30 p.m.

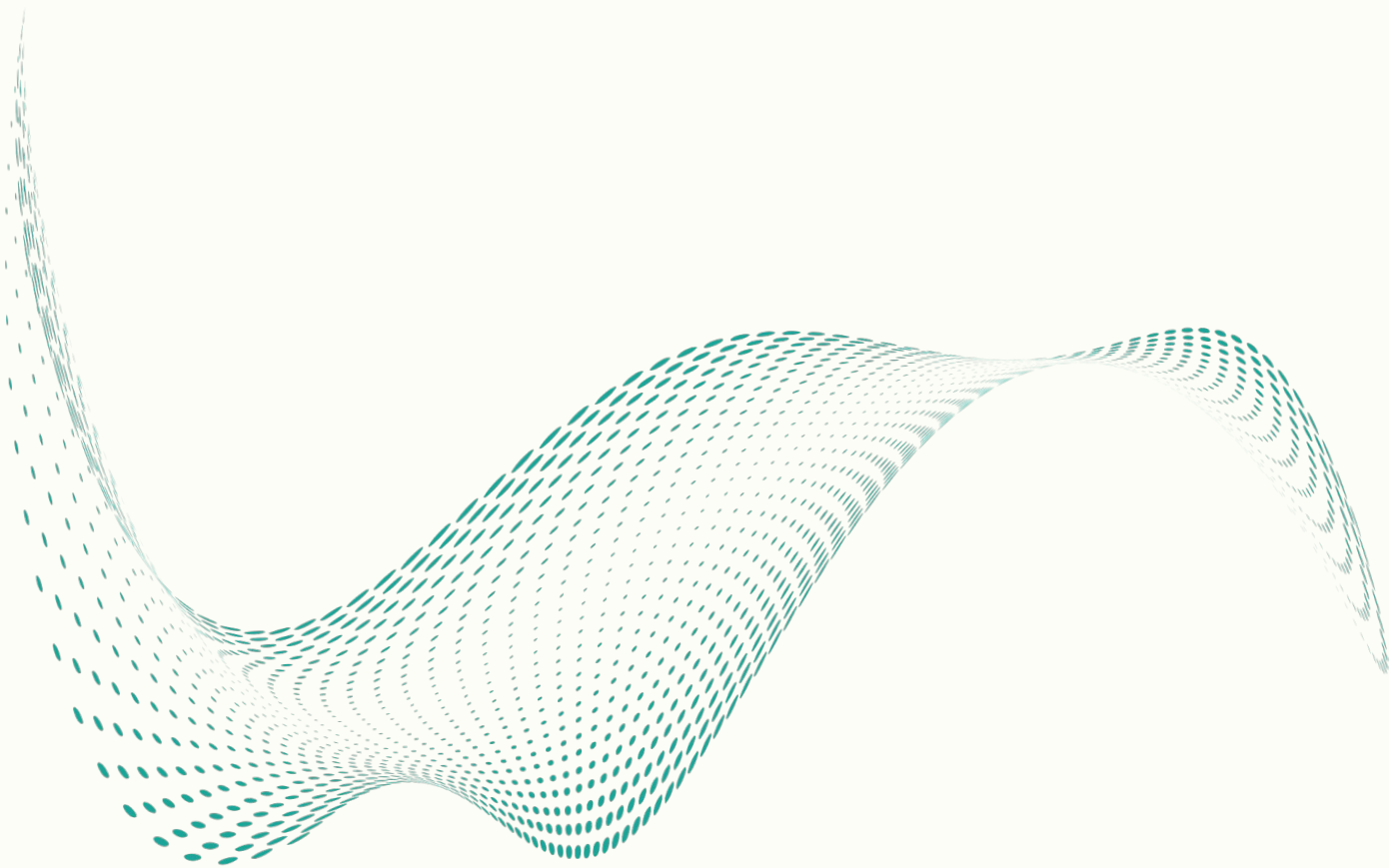
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CONNECTING THE DOTS: ORGANIZING OUR APPROACH TO PFAS CHALLENGES

Mentimeter

We will be using Mentimeter to capture information at the beginning of the session.



CONNECTING THE DOTS: ORGANIZING OUR APPROACH TO PFAS CHALLENGES

Small Group Discussion

1. What **top 5 priorities** are surfacing?
2. What is actionable for Jersey Water Works collaborative? What can we accomplish
3. through collaboration? How can we develop a roadmap?
4. Who might champion work plan items?



CONNECTING THE DOTS: ORGANIZING OUR APPROACH TO PFAS CHALLENGES

***CONNECTING THE DOTS:
ORGANIZING OUR APPROACH TO
PFAS CHALLENGES***

Summary and Takeaways

CONNECTING THE DOTS: ORGANIZING OUR APPROACH TO PFAS CHALLENGES



JERSEY WATER WORKS

Smart infrastructure. Strong communities.

THANK YOU! STAY INVOLVED!



www.jerseywaterworks.org
info@jerseywaterworks.org



#njwater25