

# Joint Meeting of DRBC Toxics Advisory Committee and Southeast Pennsylvania Regional PFAS Discussion Group



## PFAS in Surface Water, Sediment and Fish from the Delaware River

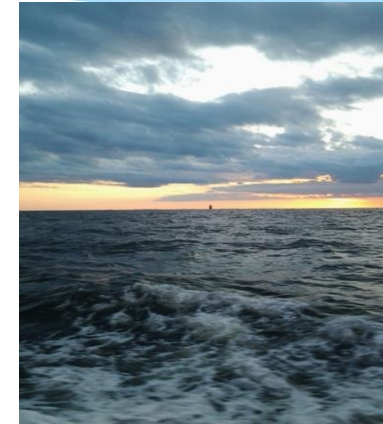
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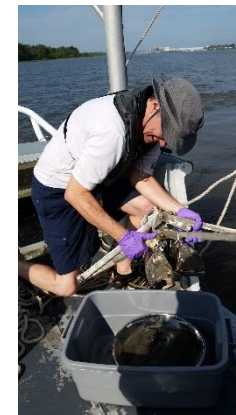
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[www.itrcweb.org](http://www.itrcweb.org)



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Presented to an advisory committee of the DRBC on January 19, 2022. Contents should not be published or re-posted in whole or in part without the permission of DRBC.

# Why collect PFAS data?

## DEP Newsroom

COMMONWEALTH OF PENNSYLVANIA  
Dept. of Environmental Protection  
Commonwealth News Bureau  
Room 308, Main Capitol Building  
Harrisburg PA., 17120

FOR IMMEDIATE RELEASE  
10/13/2021

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FCA in Neshaminy Creek, PA  
10/13/2021

Anglers Warned to Not Eat Fish from Neshaminy Creek Basin  
Perfluorooctane Sulfonate (PFOS) risk from all species

Harrisburg, PA – The Pennsylvania departments of Environmental Protection (DEP), Agriculture (PDA), and Health (DOH), along with the Pennsylvania Fish and Boat Commission (PFBC), announced a "Do Not Eat" advisory for all fish species caught in the Neshaminy Creek basin in Bucks and Montgomery counties due to extremely high levels of Perfluorooctane Sulfonate (PFOS). The advisory extends to all fish throughout the Neshaminy Creek basin, including Neshaminy Creek State Park and Tylar State Park.



Search EPA.gov

### PFOA, PFOS and Other PFAS

CONTACT US

- PFAS Home
- PFAS Explained
- EPA actions to address PFAS
- PFAS Strategic Roadmap**
- Data and Tools
- State Information

## PFAS Strategic Roadmap: EPA's Commitments to Action 2021-2024

On October 18, 2021, EPA Administrator Michael S. Regan announced the agency's PFAS Strategic Roadmap—laying out a whole-of-agency approach to addressing PFAS.

The roadmap sets timelines by which EPA plans to take specific actions and commits to bolder new policies to safeguard public health, protect the environment, and hold polluters accountable. The actions described in the PFAS Roadmap each represent important and meaningful steps to safeguard communities from PFAS contamination. Cumulatively, these actions will build upon one another and lead to more enduring and protective solutions.

### Lea en español

Infórmese acerca del Mapa estratégico sobre PFAS: Los compromisos de la EPA para tomar acción en 2021-2024

<https://www.epa.gov/pfas/pfas-strategic-roadmap-epas-commitments-action-2021-2024>



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<https://patch.com/pennsylvania/warminster/bucks-montco-residents-can-enroll-pfa-research-study>

## Bucks, MontCo Residents Can Enroll In PFA Research Study

John Fey · 32 mins ago



Like Comments



© Shutterstock High blood pressure and developmental issues in children have also been contributed to long-term exposure to the chemicals, according to researchers.

WARMINSTER, PA — Researchers re seeking up to 1,000 adults and 300 children for a new study on the relationship between cancer and PFAS, a type of chemical that was found to be present in local drinking water during 2005 to 2017.

The Agency for Toxic Substances and Disease Registry (ATSDR), which is a part of the Centers for Disease Control and Prevention (CDC), is conducting the research to find if the manmade chemicals are directly related to a series of health issues for those who were exposed to it

on a long-term basis. The main result they aim to find is if the chemicals cause cancer.



COVID-19 VACCINES | WATERSHED

## Does PFAS exposure affect COVID-19 illness and vaccine effectiveness? Researchers want to know



By Zoë Read · November 16, 2021

<https://whyy.org/articles/does-pfas-exposure-affect-covid-19-illness-and-vaccine-effectiveness-researchers-want-to-know/>



# PFAS Monitoring Update



- **Surface water samples** added to the estuary monitoring (DRBC's BoatRun) program under 106 grant in 2021
- DRBC collection of **surface water, sediment and fish** in 2021:
  - Tidal main stem and PA sites under PACZM grant.
  - Non-tidal and Zone 5 sites under NFWF DWCF grant.
- Preliminary and deliberative data was discussed

# Legacy and Novel PFAS



- SETAC-NA 2021 ABSTRACT - Occurrence and Bioaccumulation of Legacy and Novel PFAS in the Delaware River Estuary Detected Using Targeted, Suspect, and Non-Targeted Analysis. A. Robuck, et al.
  - Identified a series of perfluoro-polyether carboxylates (X-PFPECAs) in surface water, passive samplers, and fish tissue in Delaware River
  - Some novel PFAS (X-PFPECAs) were orders of magnitude more abundant than legacy PFAS
    - Cl-PFPECAs potentially bioaccumulate, in fish liver, more than PFOS
- DRBC submitted Delaware River surface water samples to Temple U. WET Ctr in 2021 for targeted, suspect, and non-targeted analysis
- Ongoing work by USEPA and NJDEP including regulatory action by NJDEP NEW JERSEY

# Planned for 2022

- Additional sampling and analysis for PFAS in fish, water and sediment is scheduled for 2022.
- PCBs, dioxins/furans, OC pesticides, total mercury and methylmercury analysis of fish fillet at sites in non-tidal river and sites in tidal estuary
- Fish collection in cooperation with basin state agencies
- Outcome is information for assessment and management e.g., PCB TMDL and providing data for fish consumption advisories in the Delaware River by basin state agencies