



# PFAS Analytic Tools Training

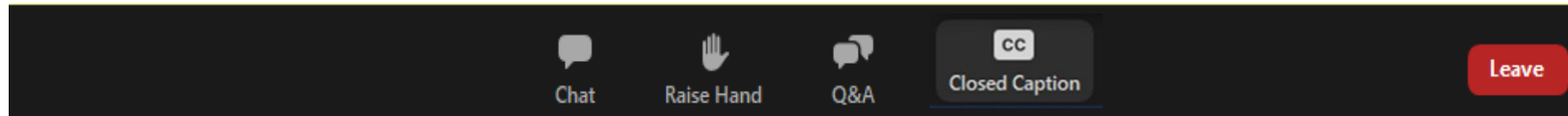
Mike Barrette and Nick Spalt

U.S EPA Office of Enforcement and Compliance Assurance

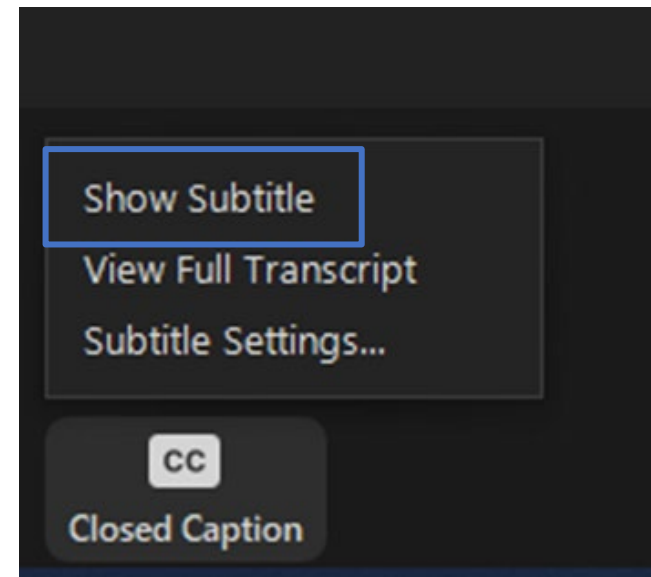
01/10/2023

# AUDIO INSTRUCTIONS: ZoomGov Webinar

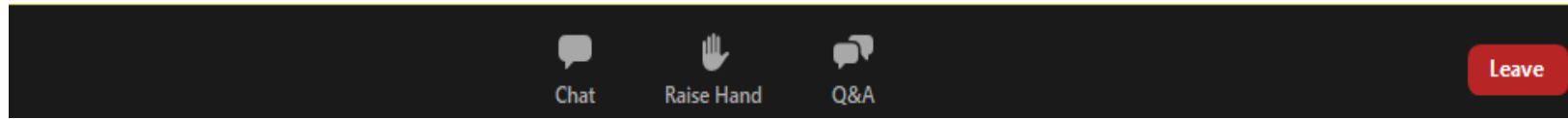
*You are in listen-only mode (muted).*



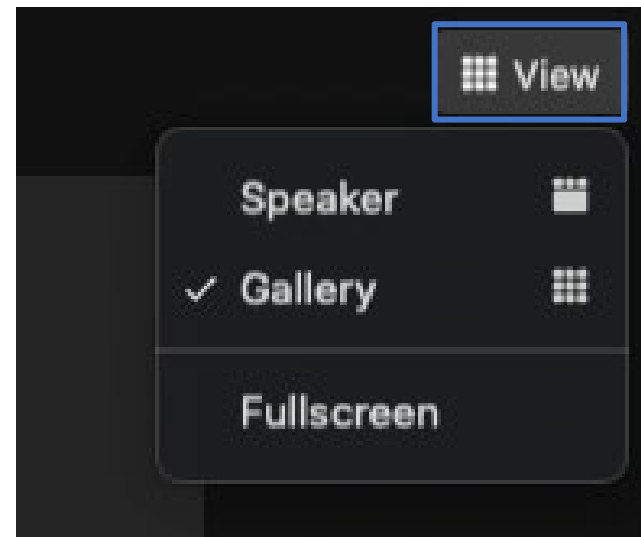
- Closed Captioning for today's Webinar is available by clicking the "Closed Caption" button on your toolbar.
- \*For your awareness, this training is being recorded.



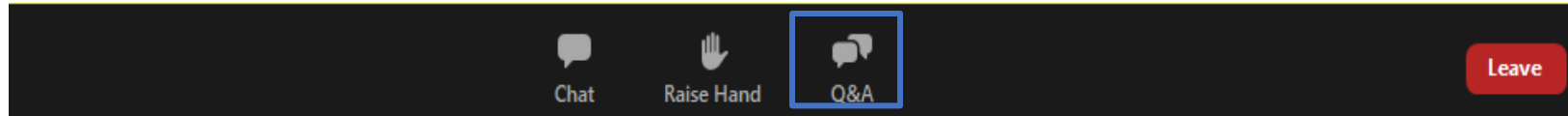
# VIDEO INSTRUCTIONS



If you don't see a presentation on the screen, try switching the view layout using the options in the top right corner.



# QUESTIONS DURING THE WEBINAR

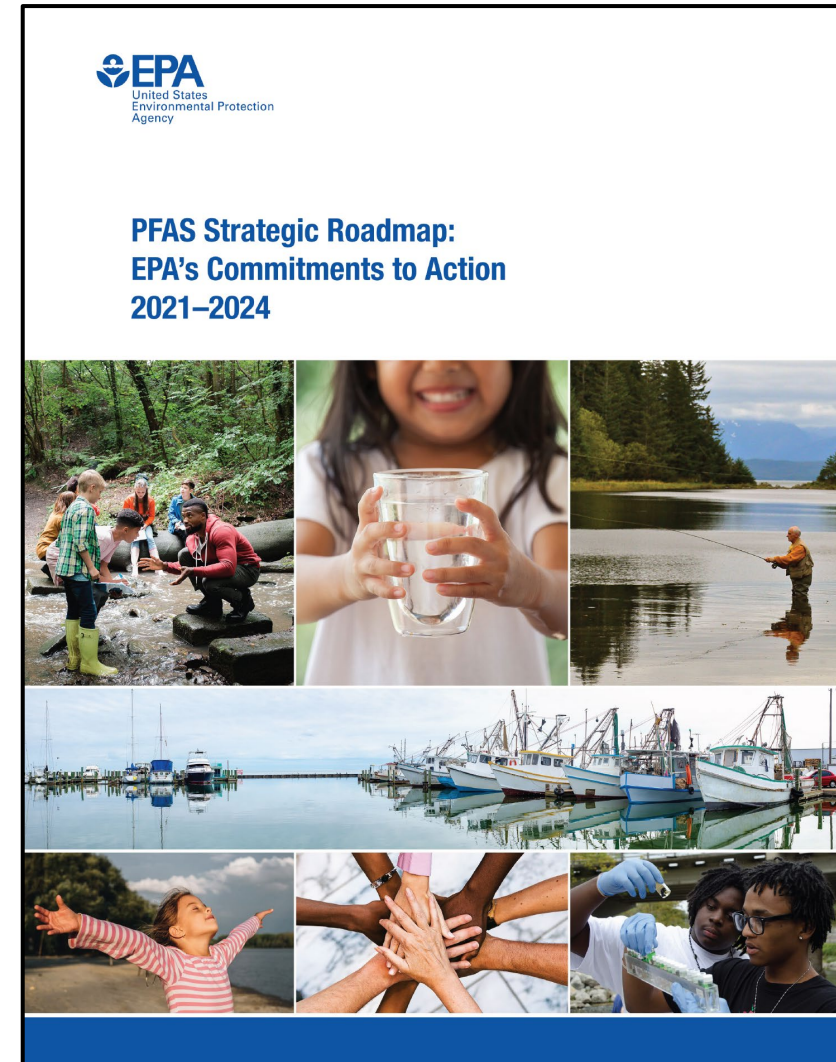


- All attendees are in listen only mode
- Please enter your questions in the Q&A pod and we will be monitoring them throughout the webinar.
- We will also have time for Q&A at the end

A screenshot of a 'Q&A' pod window. The title bar says 'Q&A'. The main text reads 'Welcome to Q&A' followed by 'Questions you ask the host and panelists will show up here'. Below this is a text input field containing 'I have a question'. At the bottom left is a checkbox labeled 'Send anonymously'. At the bottom right are 'Cancel' and 'Send' buttons. At the very bottom is a link icon and the text 'Who can see your questions?'.

# EPA's PFAS Strategic Roadmap

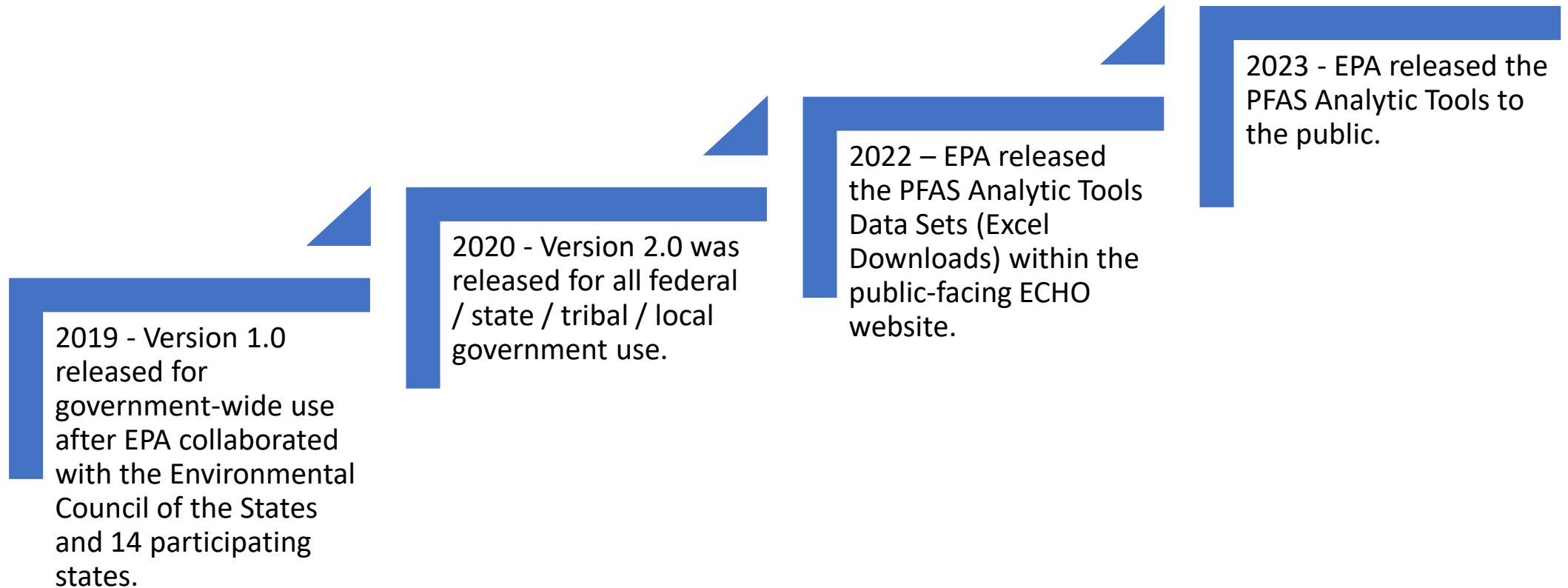
- In October 2021, EPA released the PFAS Strategic Roadmap, highlighting concrete actions the Agency will take across a range of environmental media and EPA program offices to protect people and the environment from PFAS contamination.
- The Roadmap is guided by three primary goals:
  - **Research:** Investing in research, development, and innovation to incorporate the best-available science into EPA's work.
  - **Restrict:** Working to proactively prevent PFAS from entering air, land, and water at levels that can adversely impact human health and the environment.
  - **Remediate:** Broadening and accelerating the cleanup of PFAS contamination to protect human health and ecological systems.

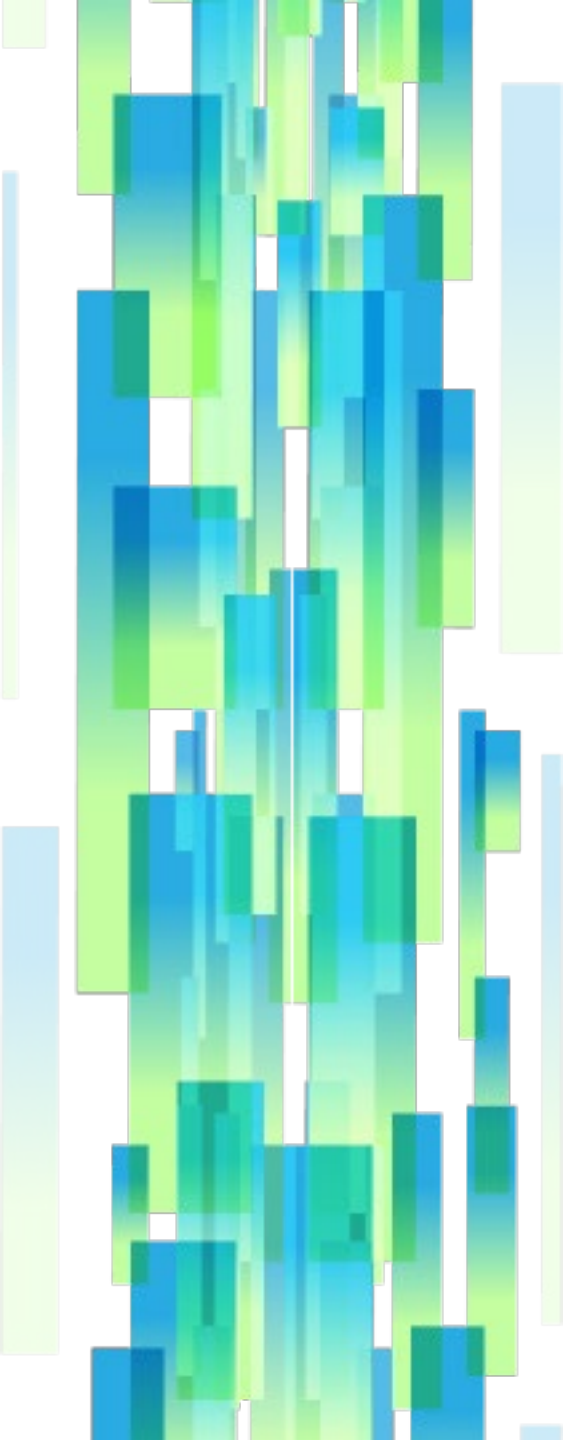


# Goals of the PFAS Analytic Tools

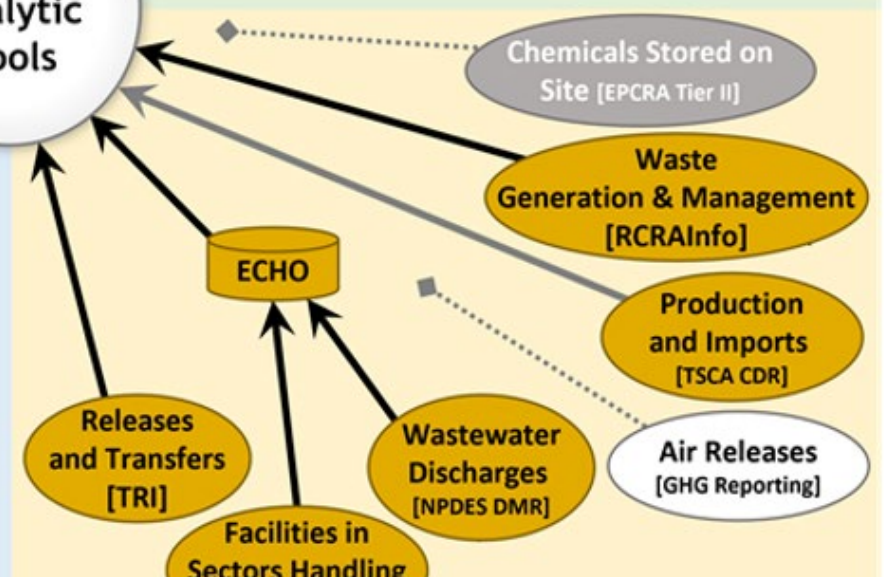
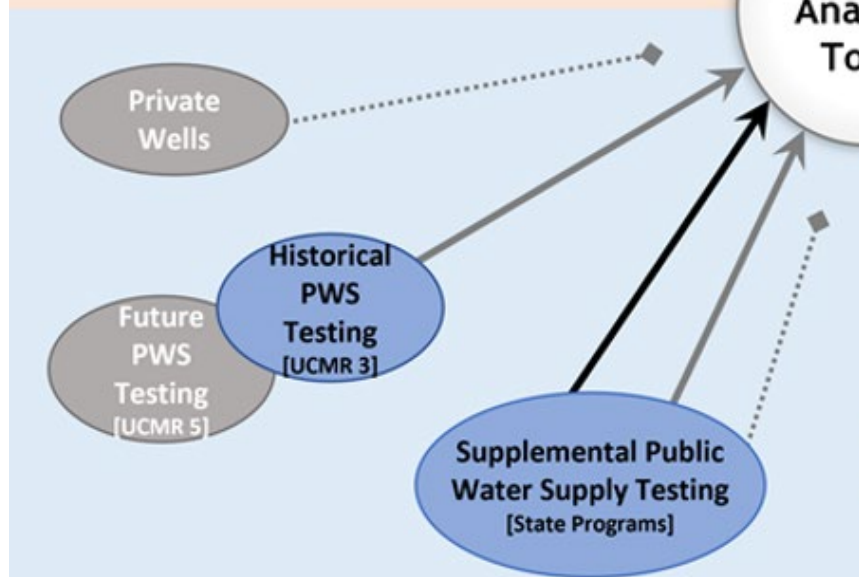
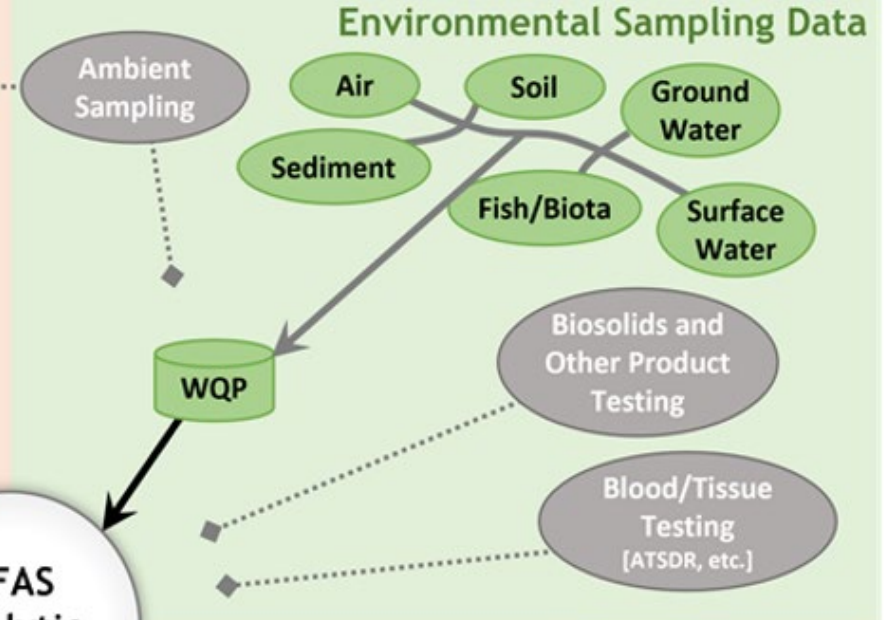
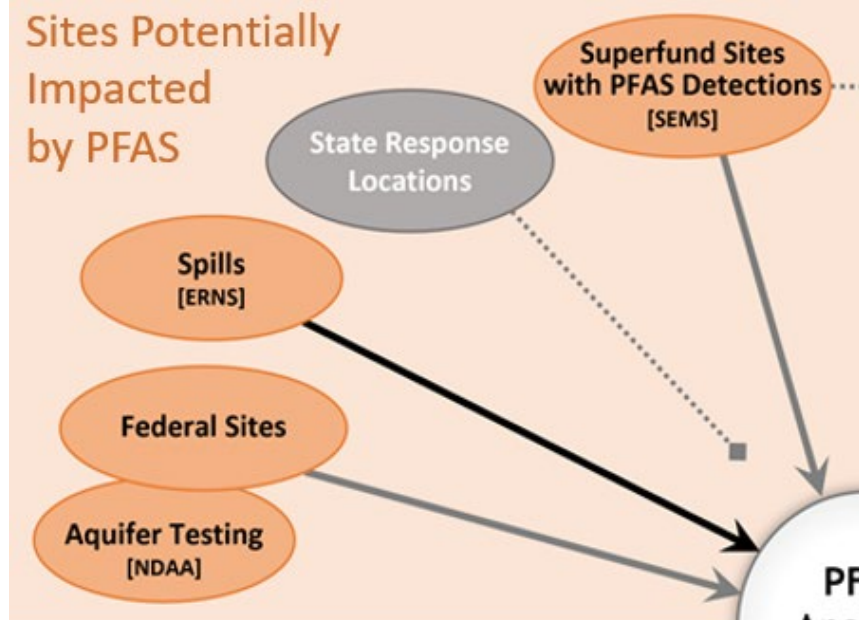
- Develop an integrated resource to understand where PFAS detections are being identified across a wide set of databases.
- Compile as much nationally available data on PFAS as possible into an easy-to-use, automatically refreshed tool.
- Develop standard methods to extract PFAS chemical data from national data systems and develop best practices for regulatory partners that would like to contribute information.
- Support EPA investigations into PFAS contamination and further the collaboration with federal/state/local/tribal partners as noted in the [EPA PFAS Strategic Roadmap \(Link to 2022 Progress Report\)](#) – see p.8).

# Development History





### Sites Potentially Impacted by PFAS



### Drinking Water Sampling Data

### PFAS Handler Data

-  Existing data flow
-  Data flow in process
-  Data flow not available
-  Existing *automated* PFAS data flow
-  Existing *manual* PFAS data flow
-  Needed PFAS data flow



## PFAS Datasets

Dataset	Dataset Component	Date Range of Data in PFAS Analytic Tools	Date Data was Extracted for PFAS Analytic	Next Anticipated Extract Date	Source
	Substance Control Act (TSCA)				
Production	Inventory Update Reporting (IUR) under the Toxic Substance Control Act (TSCA)	2002	3/20/2019	N/A	External Link
Production	Inventory Update Reporting (IUR) under the Toxic Substance Control Act (TSCA)	2005	3/20/2019	N/A	External Link
Production	Chemical Data Reporting (CDR) under the Toxic Substance Control Act (TSCA)	2011	3/20/2019	N/A	External Link
Production	Chemical Data Reporting (CDR) under the Toxic Substance Control Act (TSCA)	2016-2019	5/12/2022	N/A	External Link
Production	Chemical Data Reporting (CDR) under the Toxic Substance Control Act (TSCA)	2012-2015	6/1/2020	N/A	External Link
Spills	National Response Center Incident Reports	4/18/1990 - 12/12/2022	12/27/2022	1/3/2023	External Link
Superfund Sites	Superfund Sites w/ PFAS Detections	Current	10/4/2022	Upcoming April / October	External Link
Toxic Releases	Toxics Release Inventory	2012 - 2021	12/14/2022	Upcoming October / March	External Link
Transfers	e-Manifest	6/26/2018 - 9/30/2022	1/1/2023	1/8/2023	External Link

- [Download Discharge Monitoring Data](#)
- [Download Drinking Water \(State\) Data](#)
- [Download Drinking Water \(UCMR\) Data](#)
- [Download Environmental Media Data](#)
- [Download Federal Sites Data](#)
- [Download Industry Sectors Data](#)
- [Download Production Data](#)
- [Download Spills Data](#)
- [Download Superfund Sites Data](#)
- [Download Toxic Releases Data - On-Site](#)
- [Download Toxic Releases Data - Off-Site](#)
- [Download Toxic Releases Data - Waste Managed](#)
- [Download Transfers Data](#)

Data Currency Table is available on the PFAS Analytic Tools Homepage. Quick downloads of the data sets are available, next anticipated extraction dates, range of dates for data from each data source are all presented in this table.

# Examples of PFAS Analytic Tools Gov't Use Cases

- Assisting government agencies in investigations related PFAS detections and possible causes.
- Identification of areas for possible prioritization for drinking water monitoring or overall vulnerability analysis by government authorities.
- Identification of co-occurrence variables in a United States Geological Survey study for a drinking water monitoring prioritization approach<sup>1</sup> and ongoing EPA predictive analytics models for PFAS in fish tissue / surface water.
- Identification of potential facilities for disposal/destruction research (e.g., incinerators of PFAS waste).
- Assist EPA programs in the identification of facilities for data quality checks related to PFAS reporting.

<sup>1</sup>Perfluoroalkyl and Polyfluoroalkyl Substances in Groundwater Used as a Source of Drinking Water in the Eastern United States. Peter B. McMahon, Andrea K. Tokranov, Laura M. Bexfield, Bruce D. Lindsey, Tyler D. Johnson, Melissa A. Lombard, and Elise Watson. *Environmental Science & Technology* **2022** 56 (4), 2279-2288. DOI: 10.1021/acs.est.1c04795



# Live Demo

*Recording will be posted on PFAS Analytic Tools Home Page and on the ECHO Webinar Page.*

## Key Terms Used in Demonstration

**ECHO** (Enforcement and Compliance History Online) [echo.epa.gov](https://echo.epa.gov) – houses PFAS Analytic Tools

**PFAS Analytic Tools Home Page (Home Page)** – Refers to the opening text-based page that links to documentation, caveats and background about the site.

**PFAS Analytic Tools** – Refers to the tabbed search page that is linked from the Home Page

**ECHO Detailed Facility Report (DFR)** – Refers to ECHO's primary report showing enforcement and compliance data for facilities regulated under Clean Air, Clean Water, hazardous waste, drinking water

**EJSCREEN** – EPA's model showing environmental justice data nearby regulated facilities

**KPI** – Key Performance Indicator refers to the high-level summary data at the top of each data page. These change based on what you have selected.

# Questions regarding PFAS Analytic Tools?

## Where to Find Online Help

1) [The PFAS Analytic Tools Home Page](#)

2) [FAQs Page](#)

3) [Technical Documentation](#)

Other General Questions can be [sent here](#).

For more information on EPA's overall PFAS efforts, visit [www.epa.gov/pfas](http://www.epa.gov/pfas)

## Data Set Specific Documentation

Data Set	Contact for More Information
Ambient Environmental Sampling for PFAS (Water Quality Portal)	<a href="https://www.waterqualitydata.us/contact_us/">https://www.waterqualitydata.us/contact_us/</a>
Drinking Water Testing Unregulated Contaminant Monitoring Reporting (UCMR)	<a href="https://www.epa.gov/dwucmr/forms/dwucmr">https://www.epa.gov/dwucmr/forms/dwucmr</a>
Drinking Water Testing (State)	<a href="https://echo.epa.gov/resources/general-info/contact-us">https://echo.epa.gov/resources/general-info/contact-us</a>
PFAS Manufacture and Imports Toxics Substances Control Act – Chemical Data Reporting (TSCA CDR)	<a href="https://www.epa.gov/chemical-data-reporting/forms/contact-us-chemical-data-reporting-under-tsca">https://www.epa.gov/chemical-data-reporting/forms/contact-us-chemical-data-reporting-under-tsca</a>
Superfund Sites with PFAS Detections (SEMS)	<a href="https://www.epa.gov/superfund/forms/contact-us-about-superfund">https://www.epa.gov/superfund/forms/contact-us-about-superfund</a>
Clean Water Act Discharge Monitoring (ICIS-NPDES)	<a href="https://echo.epa.gov/resources/general-info/contact-us">https://echo.epa.gov/resources/general-info/contact-us</a>
Federal Sites	<a href="https://echo.epa.gov/resources/general-info/contact-us">https://echo.epa.gov/resources/general-info/contact-us</a>
Facilities in Industries that May be Handling PFAS Enforcement and Compliance History Online (ECHO)	<a href="https://echo.epa.gov/resources/general-info/contact-us">https://echo.epa.gov/resources/general-info/contact-us</a>
Waste Transfers – Resource Conservation and Recovery Act (RCRA e-Manifest)	<a href="https://www.epa.gov/e-manifest/forms/contact-us-about-hazardous-waste-electronic-manifest-system">https://www.epa.gov/e-manifest/forms/contact-us-about-hazardous-waste-electronic-manifest-system</a>
Spills – Emergency Response Notification System (ERNS)	<a href="https://nrc.uscg.mil/ContactUs.aspx">https://nrc.uscg.mil/ContactUs.aspx</a>
Toxics Release Inventory (TRI)	<a href="https://www.epa.gov/toxics-release-inventory-tri-program/forms/tri-program-contacts">https://www.epa.gov/toxics-release-inventory-tri-program/forms/tri-program-contacts</a>

# Thank you for attending today's training!

Recording and slides will be posted on the [ECHO Training Page](#).

A short survey will appear on your screen momentarily, we would really appreciate your feedback.

**OMB Control Number: 2030-0051 Expiration Date: 5/31/24**

*(Pursuant to 5 CFR § 1320.12(b)(2); approval for the current collection is automatically extended on a monthly basis during OMB's review of its renewal.)*

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