



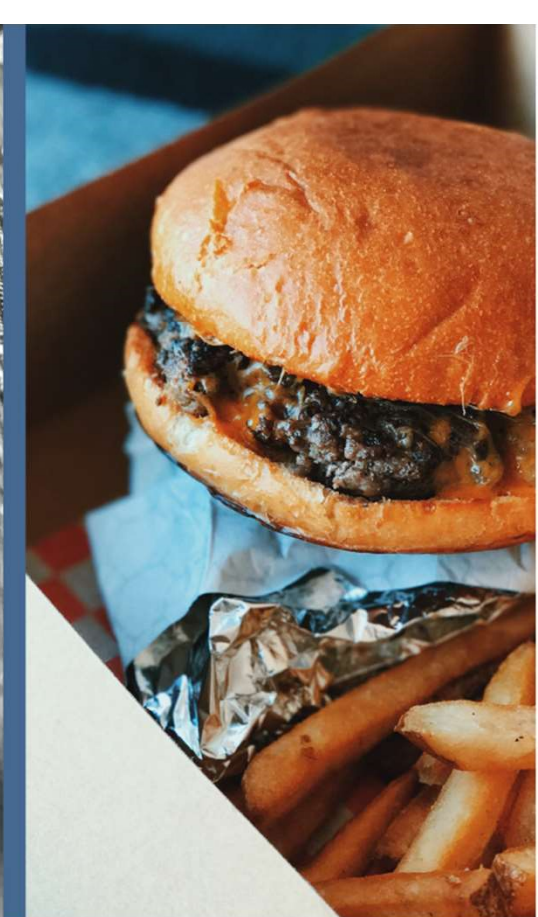
Draft PFAS Chemical Action Plan

Public Comment Webinar

We're glad you could make it!

Please stand by for the webinar to start.





Draft PFAS Chemical Action Plan Public Comment Webinar

Thursday, November 12, 2020 - 2:00 p.m.

Wednesday, November 18, 2020 - 6:00 p.m.

Thursday, November 19, 2020 - 2:00 p.m.



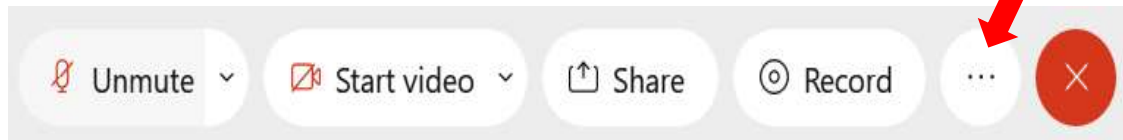
Today's webinar

- 1 How to participate today
- 2 Staff introductions
- 3 Why a Chemical Action Plan for PFAS?
- 4 CAP Recommendations
- 5 Public Comment
This portion of the webinar is recorded
- 6 Contact Information

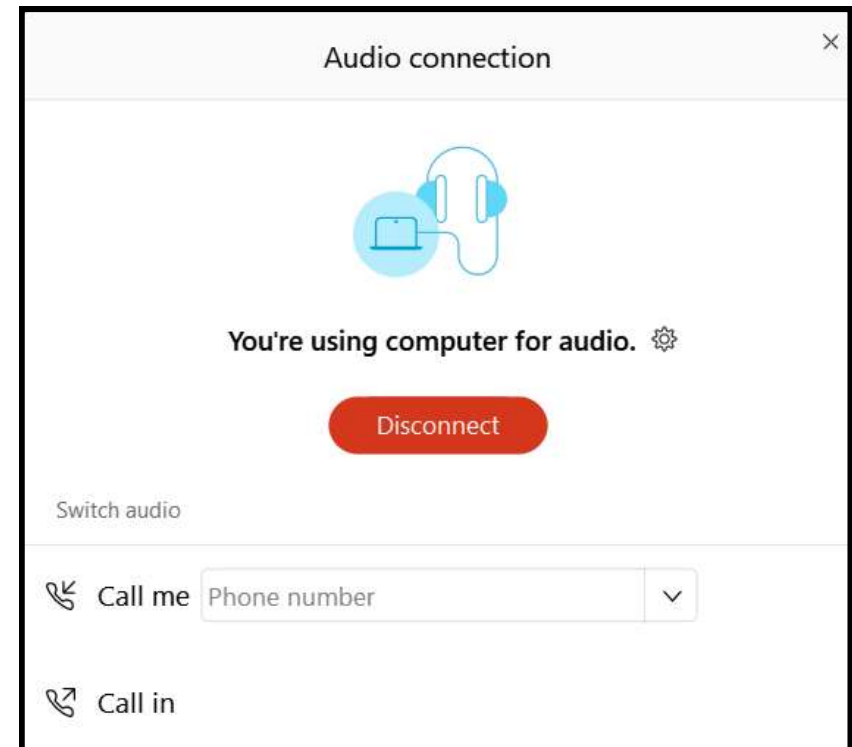
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- Click “Switch Audio” and a box will appear with options for how to connect.

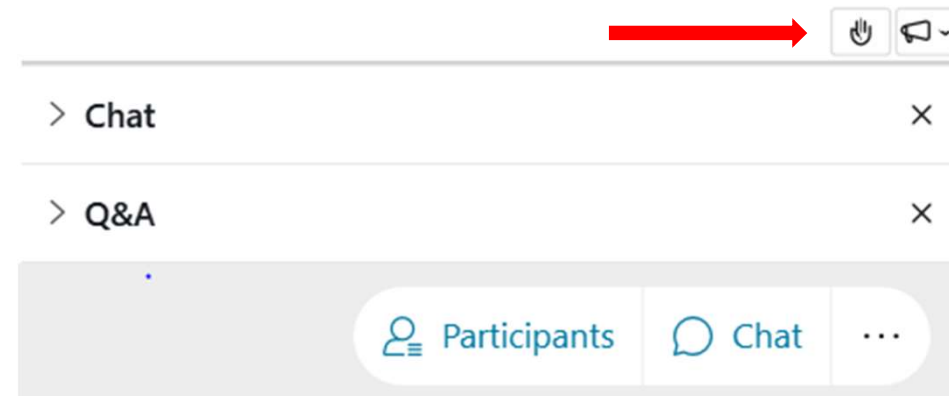


Access presentation slides here:

<https://www.ezview.wa.gov/?alias=1962&pageid=37105>

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- **Reminder: Public comments are recorded**

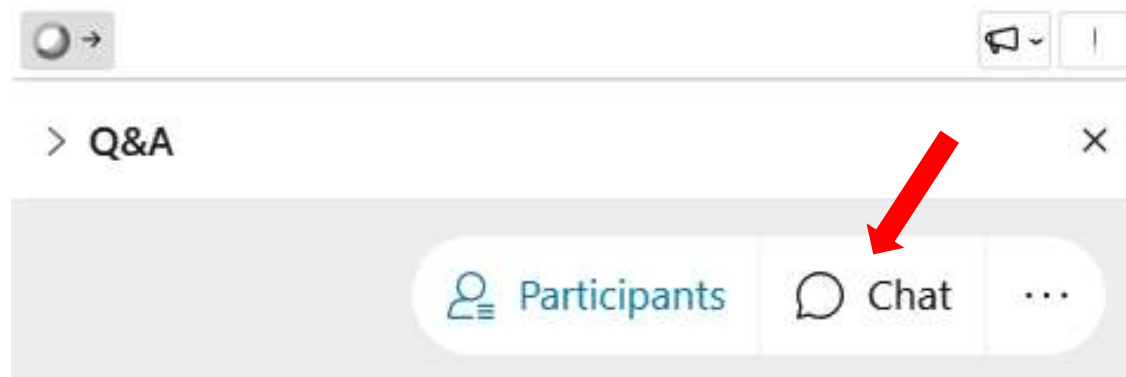


How to Use WebEx

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Please note that we will not be accepting questions during this webinar.



Introductions

Agency Staff

Ecology (HWTR)

- Irina Makarow, Chemical Action Planner
- Maria Blackshear & Megan Smith, webinar coordination
- Lauren Tamboer, Communications Consultant
- Kimberly Goetz, Legislative Liaison/Moderator

Health

- Barbara Morrissey, Toxicologist



Chemical Action Plan for Per- and Polyfluoralkyl Substances (PFAS)



Why PFAS?

- Used in many everyday products
- Persist in the environment
- Nearly everyone is likely exposed to PFAS
- Harmful effects
- Replacement products not well understood
- Complex response





Chemical Action Plans WAC 173-333-340

Why a Chemical Action Plan?

Persistent, Bioaccumulative Toxics (PBT) Rule

- WAC 173-333
- Perfluorooctane sulfonates (PFOS) and its related acids and salts: group of chemicals identified as PBT

A Chemical Action Plan (CAP):

“...identifies, characterizes, and evaluates... uses and releases of Persistent Bioaccumulative Toxic chemicals... and recommends actions to protect... human health or the environment.”

- Ecology and Department of Health partner to prepare CAPs

Advisory Committee

WAC 173-333-430

- Represents stakeholders
- Provides input and expertise
- Consultative process
- Public Committee meetings

Current members for PFAS CAP:

- Agency for Toxic Substances and Disease Registry
- American Chemistry Council
- Association of Washington Business
- City of Issaquah
- Clean Production Action
- Green Science Policy Institute
- Institute of Neurotoxicology & Neurological Disorders
- Island County Public Health
- King County Department of Natural Resources and Parks
- Washington State Patrol, Fire Training Academy
- Naval Facilities Engineering Command Northwest
- Outdoor Industry Association
- Port Gamble S'Klallam Tribe
- Port of Seattle Aviation
- Port of Seattle Fire Department
- Toxic-Free Future
- University of Washington
- Whidbey Island Water Systems Association
- Whitman College
- Zero Waste Washington

CAP Process Timeline





Public Comment

WAC 173-333-430(6)

Public Comment Requirements

Methods of notice:

- WSR notice October 7, 2020.
- Ecology website
- Notice to interested persons via mailing lists
- Contacting interested organizations

60-day public comment period

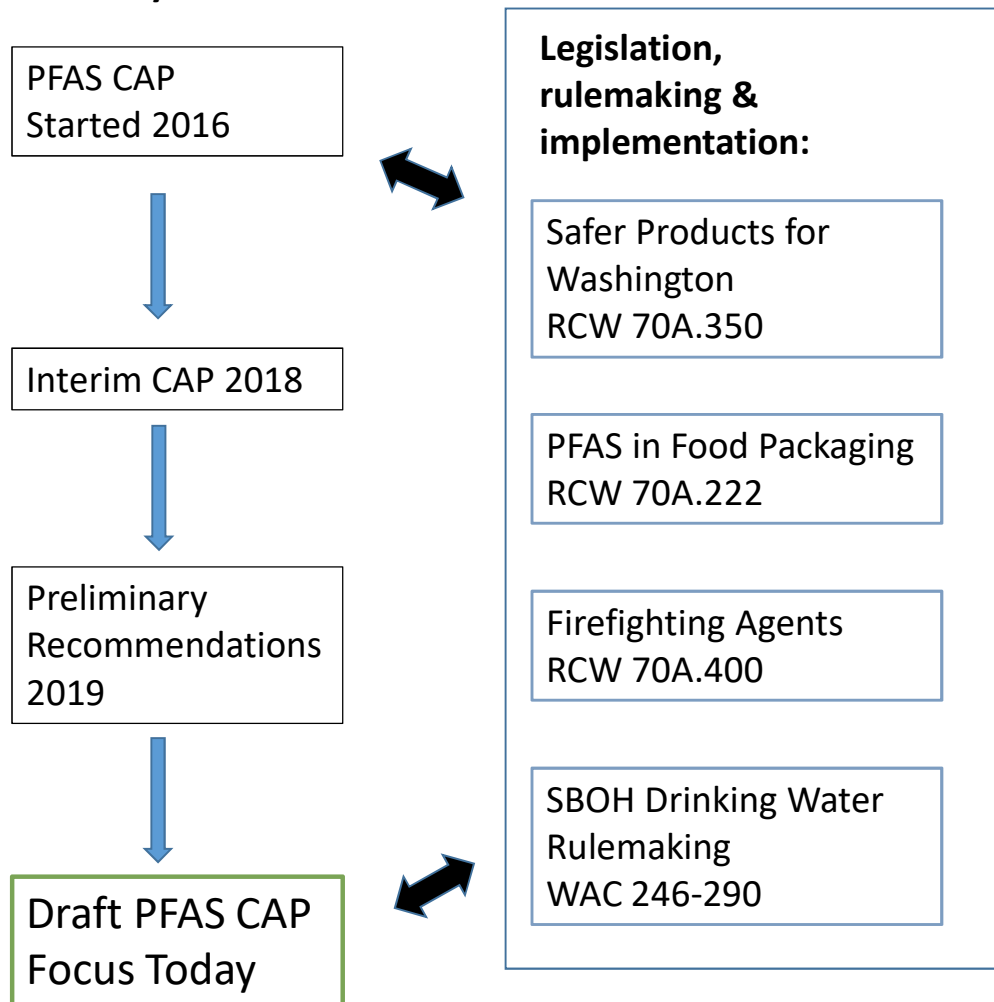
- Closes December 7, 2020
- E-comment, mail-in

Conduct public comment webinars:

- November 12, 18, and 19, 2020
- Registration via PFAS CAP EZ view page

Today's Focus

Advisory:



- Development of the CAP => evolution of our knowledge
- Legislation, rulemaking, implementation
 - Safer Products for Washington
 - PFAS food packaging alternatives assessment
 - Firefighting Agents
 - Drinking water rulemaking (in progress)
- Today's focus: Draft PFAS CAP



Draft PFAS CAP Overview



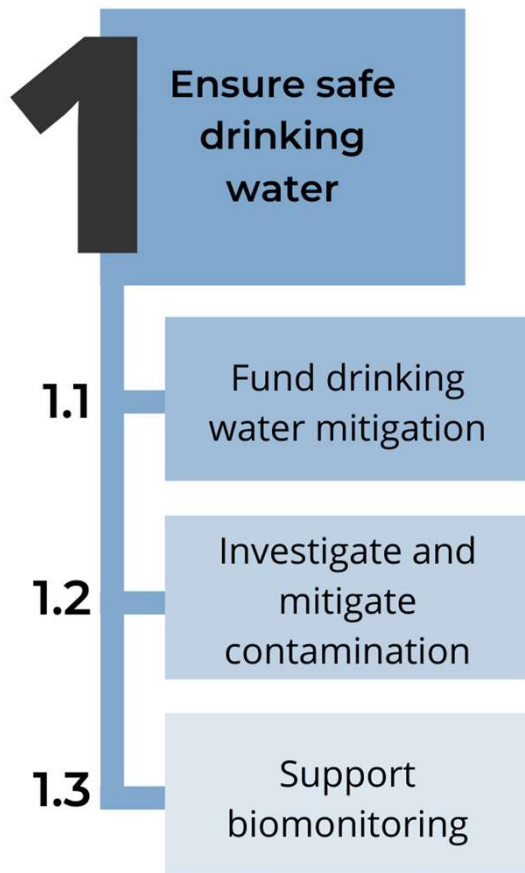
Draft CAP for Public Comment

- Draft CAP
- App 1: Chemistry
- App 2: Analytical methods
- App 3: Sources and uses
- App 4: Fate and transport
- App 5: Ecotoxicology
- App 6: Occurrence
- App 7: Health
- App 8: Biosolids
- App 9: Regulations
- App 10: Economic analysis

Draft PFAS CAP Recommendations



1. Ensure safe drinking water



1.1 Funding for drinking water mitigation

- Work across agencies to find mitigation funding
- Responsible parties identified, reimburse costs

1.2 Technical support, site investigation and mitigation

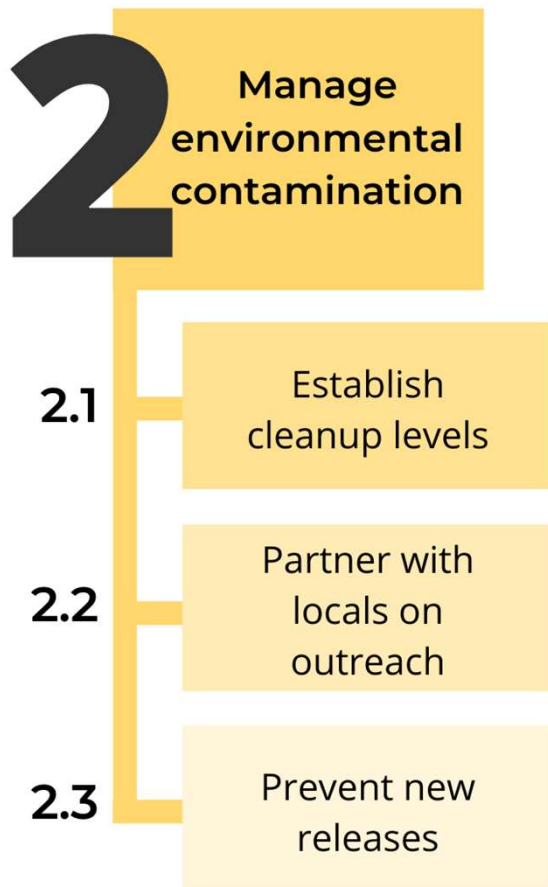
- Ecology collaborates to understand contamination
- DOH provides drinking water mitigation assistance
- Ecology targets Safe Drinking Water Action Grants
- Ecology investigates surface and groundwater
- “Fingerprinting” chemical identities

1.3 Support biomonitoring

- Support subsidized biomonitoring
- Participation in epidemiological studies



2. Manage environmental contamination



2.1 Establish clean-up levels for soil and groundwater

- Develop PFOS/PFOA cleanup levels based on Health's drinking water standards
- Explore methods for investigation and clean-up
- Provide information to interested parties

2.2 Partner with Local Organizations

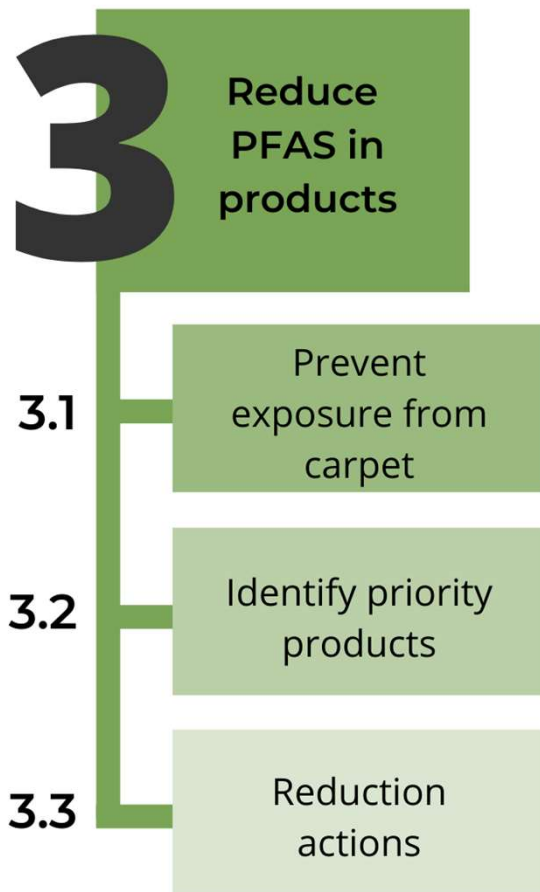
- Identify and distribute funding to local health departments and local organizations

2.3 Prevent AFFF and manufacturing process releases

- Work proactively to eliminate releases
- AFFF: develop best management practices for containment, disposal/replacement
- Industry: identify use, opportunities for replacement, proper waste management



3. Reduce PFAS in products



3.1 Carpet, upholstery, after-market treatments

- Continue work under Safer Products for Washington
- Purchasing policy for PFAS free products, swap-out

3.2 Consider other sources in 2nd Safer Products cycle

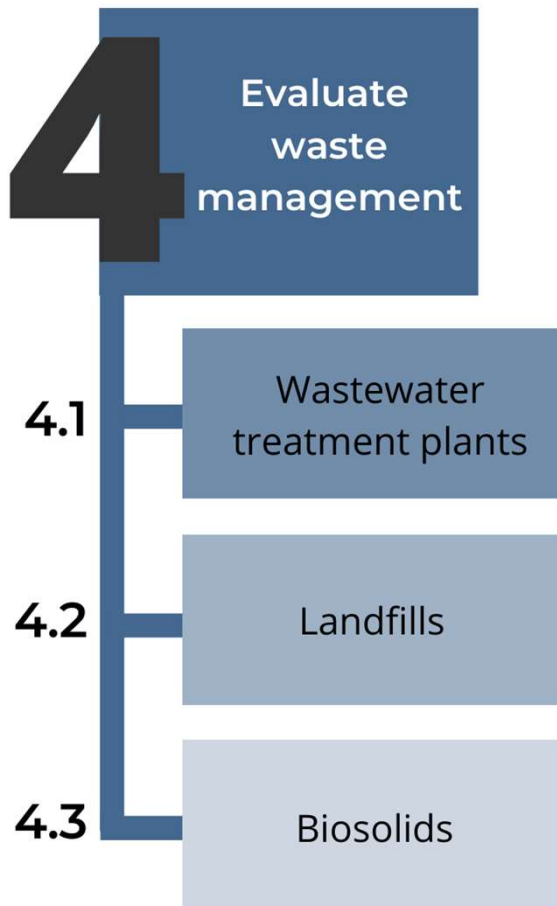
- Engage with overburdened communities
- Assess availability/feasibility of safer alternatives

3.3 Implement other reduction actions

- Propose restrictions under Chapter 70.365 RCW
- Gather information/reduce exposures for overburdened communities
- State purchasing preference for PFAS-free textiles, furniture, paints
- Propose ban on import/sale of phased-out long-chain PFAS



4. Evaluate waste management



4.1 PFAS in waste water treatment

- Study discharges to WWTPs
- Consider additional industrial monitoring requirements

4.2 Sample landfill leachate

- Study to sample landfills and identify contributing waste streams
- Consider monitoring for PFAS in leachate

4.3 Evaluate biosolids management

- Accredited laboratories/use EPA validated analysis methods
- Investigate land application sites, get biosolids data
- Evaluate realistic exposure pathway and risk models





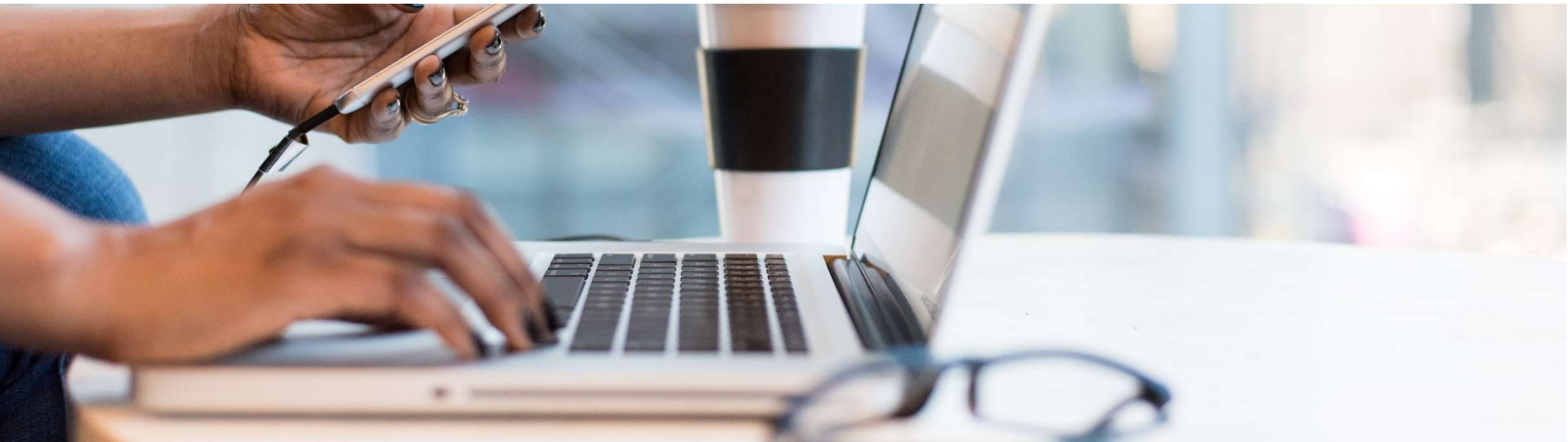
Do you have questions about the CAP?

Contact Irina Makarow....

By phone: 360-407-6250

By e-mail: irina.makarow@ecy.wa.gov





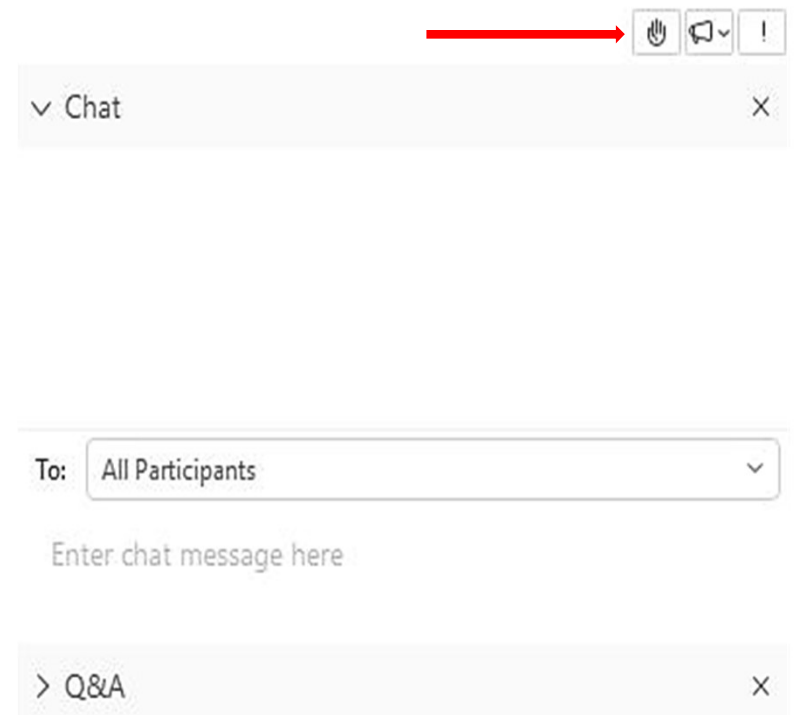
Public Comment

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Public Comment Methods

Comment webinars

- Thursday November 12, 2020 - 2 PM
- Wednesday November 18, 2020 - 6 PM
- Thursday November 19, 2020 - 2 PM

In writing

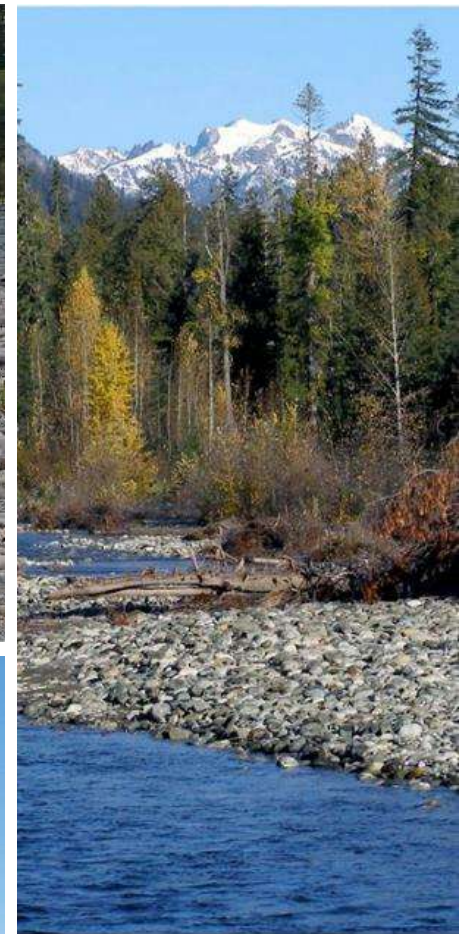
- E-Comment – by December 7, 2020
- E-mail – by December 7, 2020
- By Mail – postmarked no later than December 7, 2020

More information:

<https://www.ezview.wa.gov/?alias=1962&pageid=37105>

Or contact Irina Makarow:

- 360-407-6250
- irina.makarow@ecy.wa.gov





Conclusion



Next Steps

Issuing the Final CAP

October –
November
2020

Receive Comments

- Conduct comment webinars
- Receive comments

December –
February
2020

Prepare Final CAP

- Review comments
- Additional analysis if necessary
- Prepare response to comments
- Engage with Advisory Committee
- Prepare Final CAP

Spring 2021

Issue Final CAP

PFAS CAP Contacts

Irina Makarow, CAP lead

- 360-407-6250
- irina.makarow@ecy.wa.gov

PFAS CAP website

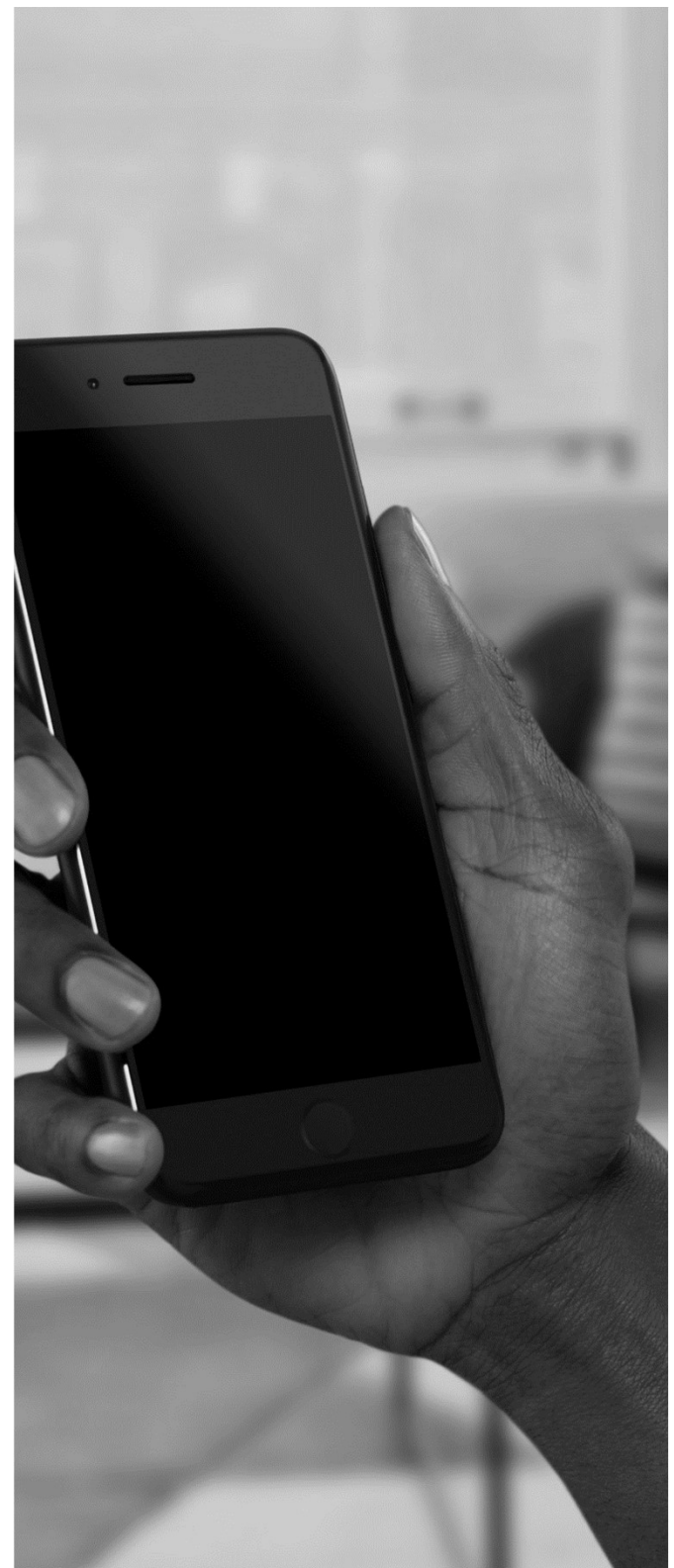
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PFAS CAP email list

<http://listserv.ecology.wa.gov/scripts/wa-ECOLOGY.exe?AO=CHEMICAL-ACTION-PLAN>

Agency Web Pages

- Ecology: <https://ecology.wa.gov/PFAS>
- DOH:
<https://www.doh.wa.gov/CommunityandEnvironment/Contaminants/PFAS>



Thank you for your time!