

May 23, 2018  
Spokane River Regional Toxics Task  
Meeting

*2015 PCB  
Chemical Action Plan*

Anne Knapp, Ecology  
Chemical Action Plan Coordinator

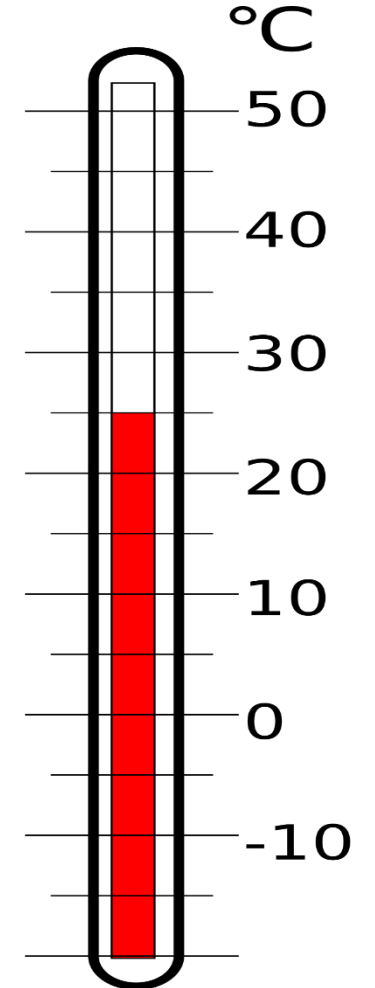


# Chemical Action Plans (CAP)

- **WAC 173-333 Persistent Bioaccumulative Toxins**
  - "PBT" means a chemical or chemical group that meets or exceeds the criteria for persistence, bioaccumulation and toxicity criteria established in WAC [173-33-320](#).
- Well established and widely supported
- Recommend the most effective actions
- **Advisory committee**
  - Review and collect more information
  - Develop draft recommendations

# Selected CAP Actions

- Mercury (2003)
  - Ban on some uses
  - Dentists collect mercury amalgam waste
- PBDE flame retardants (2006)
  - Ban on some uses, after an alternatives assessment
- Lead (2009)
  - Lead-based paint assessment and remediation
  - Focus for pollution prevention planning
- PAH (2012)
  - Wood smoke
  - Creosote treated wood
  - Vehicles



# Current CAP - PFAS

- **Per- and poly-fluorinated alkyl substances**
  - Coatings and products resistant to oil, stains, grease, and water
  - Durability, heat resistance, UV resistance, and anti-corrosive properties
- **Draft Interim CAP published early April**
  - Ensure drinking water is safe
  - Manage environmental PFAS contamination
  - Reduce risks to drinking water from firefighting foam
  - Investigate other sources of PFAS

**Visit Ecology website and comment by May 31!**

# Statewide PCBs in Fish Tissue

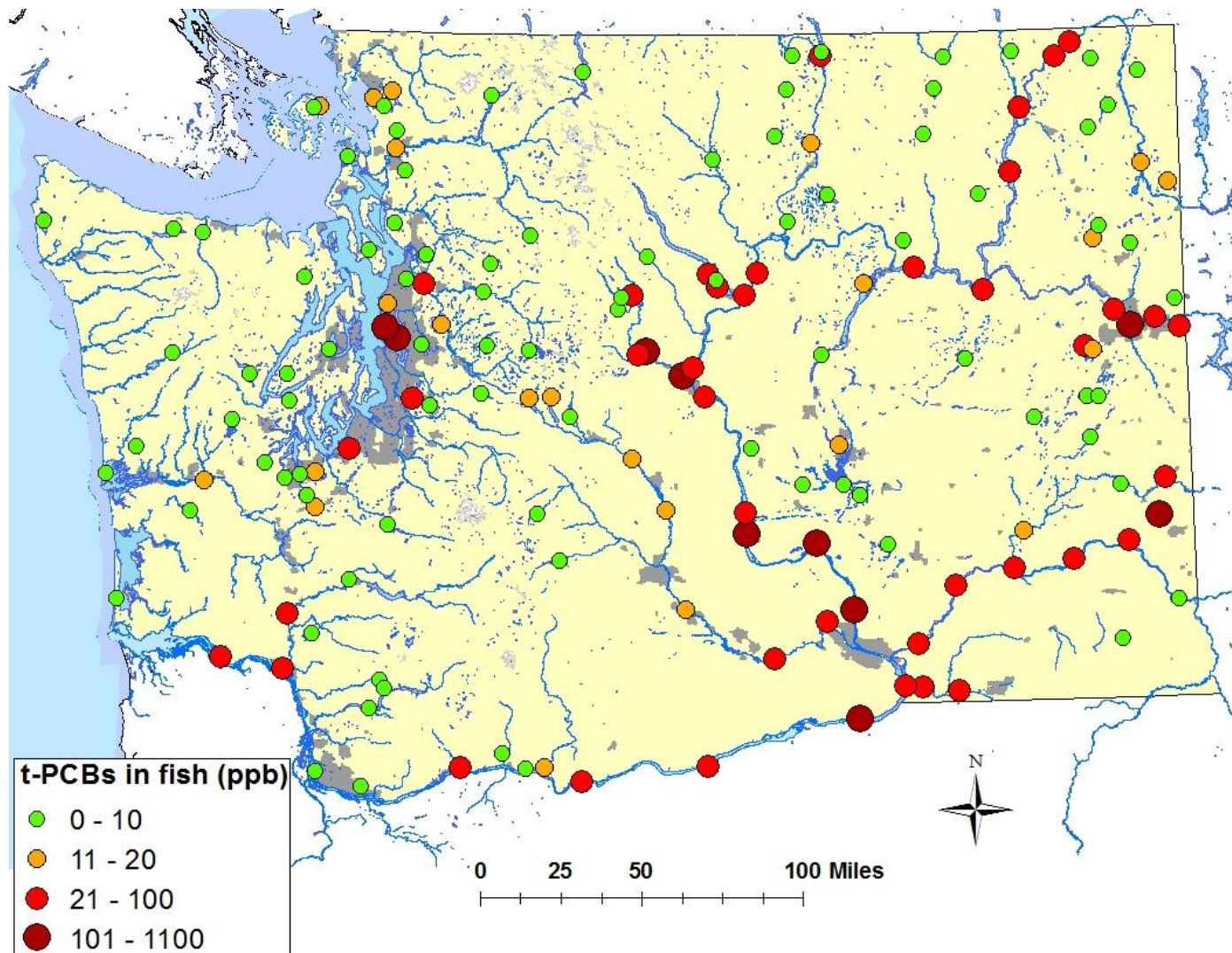
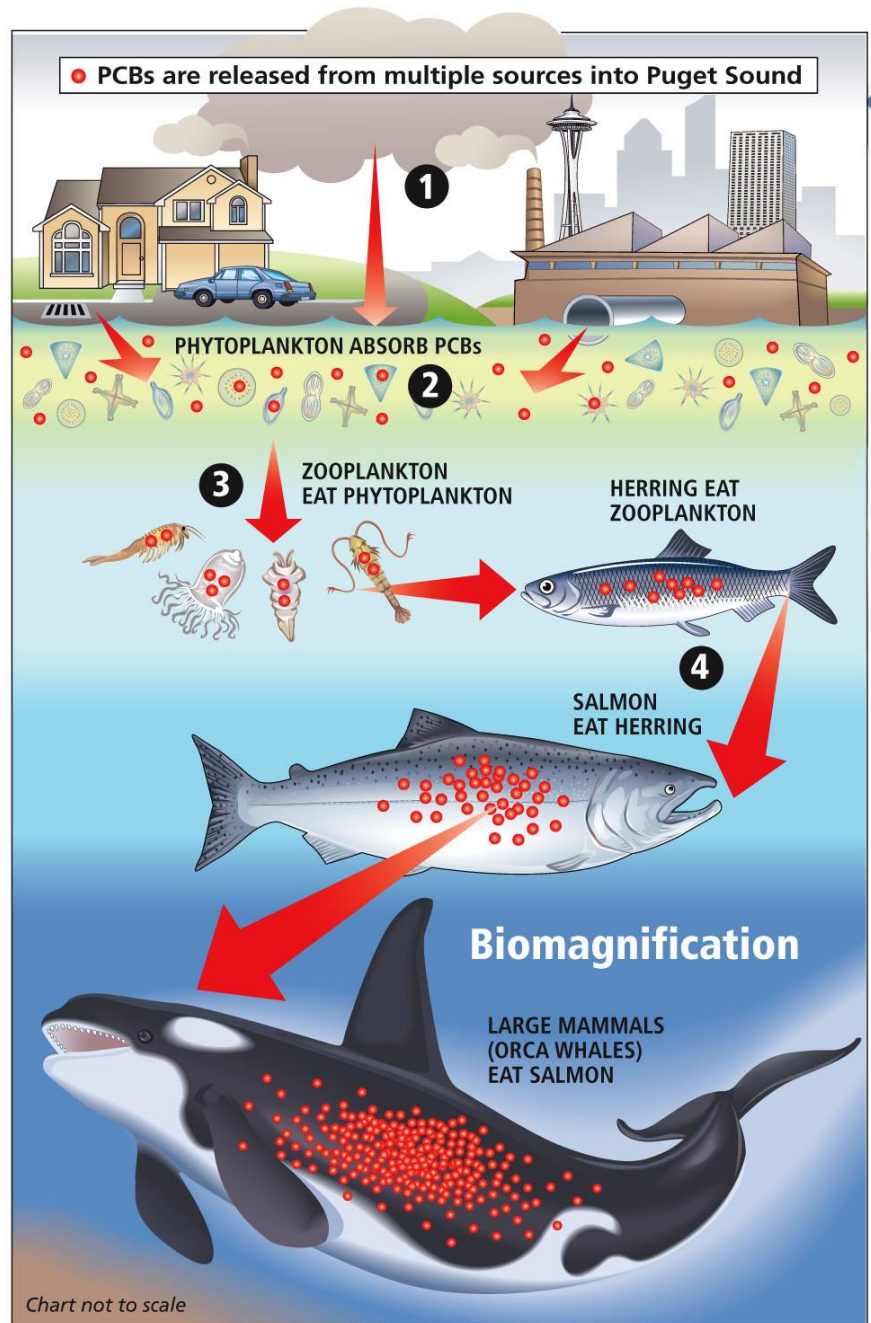


Figure 22: Average PCB Concentrations in Fish Muscle Samples from Washington Rivers and Lakes (prepared by Keith Seiders, Ecology Environmental Assessment Program; 1997-2010 data, N = 587).



“The Zone”  
Seattle Post-Intelligencer

# PCB CAP Advisory Committee

Dianne Barton

Kevin Booth

Patricia Cirone

Jenee Colton

Karen Dinehart

Rick Eichstaedt

Brandon Housekeeper

Nancy Johns

Ken Johnson

Doug Krapas

Michelle Mullin

Sandy Phillips

Rosalind Schoof

Heather Trim

Laurie Valeriano

Dirk Wassink

Jim West/Sandie O'Neill

Columbia River Inter-Tribal Fish Commission

Avista

UW School of Public Health, Dept of Environ. and Occu. Health

King County DNRP

Seattle City Light

Center for Justice

Association of Washington Business

Office of the Superintendent of Public Instruction

Weyerhaeuser/AWB

Inland Empire Paper Company

EPA Region 10

Spokane Regional Health District

Environcorp

Futurewise

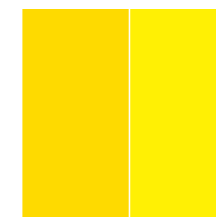
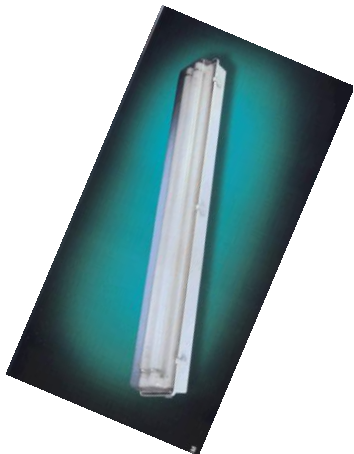
Washington Toxics Coalition

Second Use

Washington Department of Fish and Wildlife

# PCB CAP Priorities

Source	Legacy Reservoir	Releases (kg/year)
<b>Historic (pre-1979)</b>		
transformers	100-200 kg	< 2
large capacitors	20 metric tons	10 - 80
lamp ballasts	100-350 metric tons	400 - 1,500
small capacitors	1-35 metric tons	3 - 150
caulk	87 metric tons	160
<b>Inadvertent Generation (2015)</b>		
pigments and dyes	N/A	0.02 - 31
other	N/A	900
residential waste burning	N/A	199
commercial marine vehicles	N/A	0.4





# 2017 PCB CAP Update

1. *Survey & assess lamp ballasts in schools & other public buildings. Encourage replacement with more energy efficient PCB-free fixtures.*
  - Public schools rapidly moved to PCB-free and energy efficiency lighting
  - Office of the Superintendent of Public Schools and Departments of Commerce, Ecology, and Health which provided education and financial assistance
2. *Develop and promote Best Management Practices (BMPs) for containment of PCB-containing materials in buildings currently in use and those slated for demolition.*
  - Ecology web page on “Identification, Sampling and Testing of Demolition Wastes”

# 2017 PCB CAP Update

3. *Assess schools and other public buildings for the presence of PCB-containing building materials.*

- Workshops and online resources provided by the Office of the Superintendent of Public Schools and Departments of Commerce, Ecology, and Health
- Increased awareness of PCB-containing building materials and demolition waste

# 2017 PCB CAP Update

4. *Learn more about what products contain PCBs and promote the use of processes that don't inadvertently generate PCBs.*

- Ecology is one of the few states conducting product testing for PBTs
- Two rounds of PCB consumer product testing (pigments in paper stocks and plastics) helps Environmental Preferable Purchasing promote PCB-free products
- Analysis of a third round of testing, focusing on medical supplies and fabrics is underway

# 2017 PCB CAP Update

## 5. *Survey owners of historic electrical equipment.*

- Sixty-one companies provide power service in Washington state
- Many voluntarily replacing electrical transformers that contain PCBs
- Avista Utilities and Seattle City Light systematically identified and replaced many transformers

## 6. *Expand environmental monitoring to identify any new areas requiring cleanup.*

- Ecology and other agencies working in Puget Sound, the Lower Duwamish Waterway, and Spokane River
- The Freshwater Fish Contaminant Monitoring Program periodically tests for contaminants, including PCBs

# 2017 PCB CAP Update

## 7. *Conduct a public educational campaign.*

- Health's Fact Sheets and fish eating advisories
- Tailored to specific water bodies
- Emphasis on women who are pregnant or might become pregnant, nursing mothers, and young children should choose fish that are low in contaminants
- Exposure is reduced by preparing and cooking fish properly

## 8. *Conduct a study on which PCB congeners are present in Washington residents.*

- California established the nation's first State Biomonitoring Program in 2006
- Information guides pollution prevention work and measures its success

# Next Steps

1. *Internal Ecology budget decision package that would help implement CAP recommendations.*
  - I'll follow up with the SRTF for input and possible support
2. *Product Testing and Preferential Product Purchasing*
  - Identify non-PCB containing products and prioritize via state purchase contracts
  - Reducing Toxics Threat unit testing fish hatchery products, will discuss with you at next meeting
3. *ECOcomments Update*
  - Ecology blog on PCBs
  - See *Mercury in Retrograde* too!
4. *Continued Work with Dentists*
  - One time compliance reporting for amalgam separators

# Next Steps

4. *Puget Sound Partnership (Near Term Action Proposal) PCBs in Building Materials*
  - Reduce PCB releases in buildings built or renovated between 1950 - 1979
  - Enforce current TSCA regulations
  - Provide BMPs to school districts and building owners
  - Partner with EPA Region 10
  
5. *Update WAC to improve CAP process*
  - Next CAP
  - Streamline process
  
6. *Survey for remaining PCBs put there?*
  - Schools and Northwest Public Power Producers Association?
  - Spokane River Regional Toxics Task Force?

# Thank You!

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