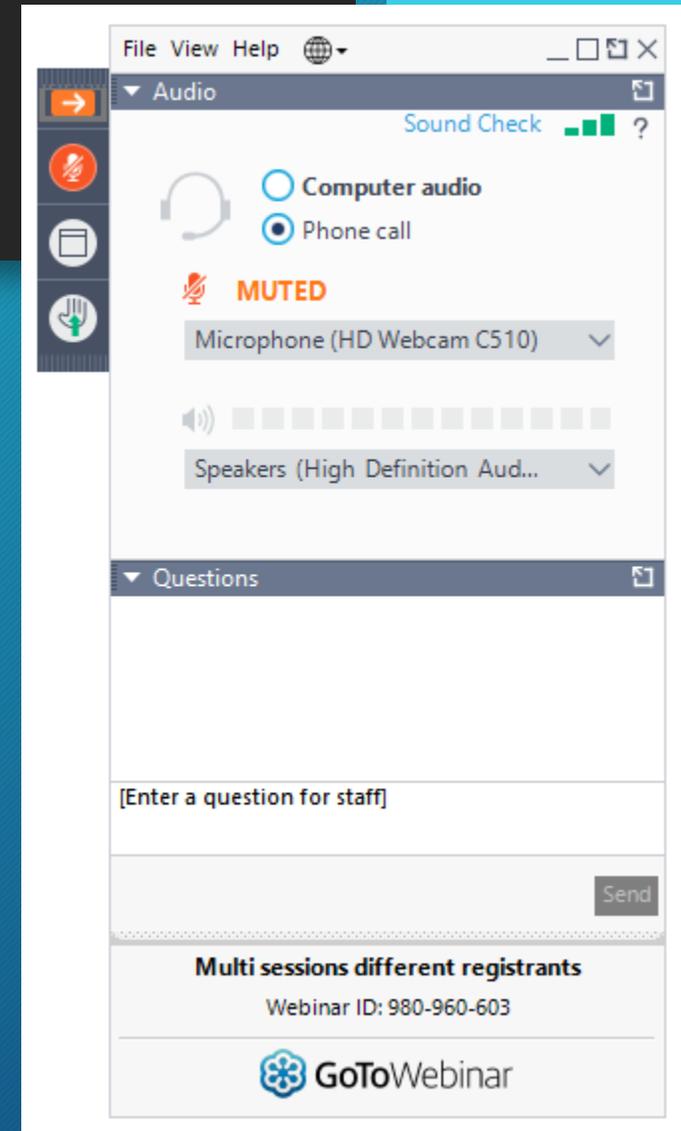


# Welcome To The Flame Retardants Webinar

The webinar will start promptly 10:00 a.m. PST.

- Please use the Go To Webinar phone number to listen and participate in the meeting.
- If during the webinar you are disconnected, or have difficulty hearing, try disconnecting and calling back in.
- For any technical support, please visit [gotowebinar.com](http://gotowebinar.com) and click on Support.



# Flame Retardants (ESHB 2545) Stakeholder Advisory Committee

November 9, 2018

Washington Department of Health

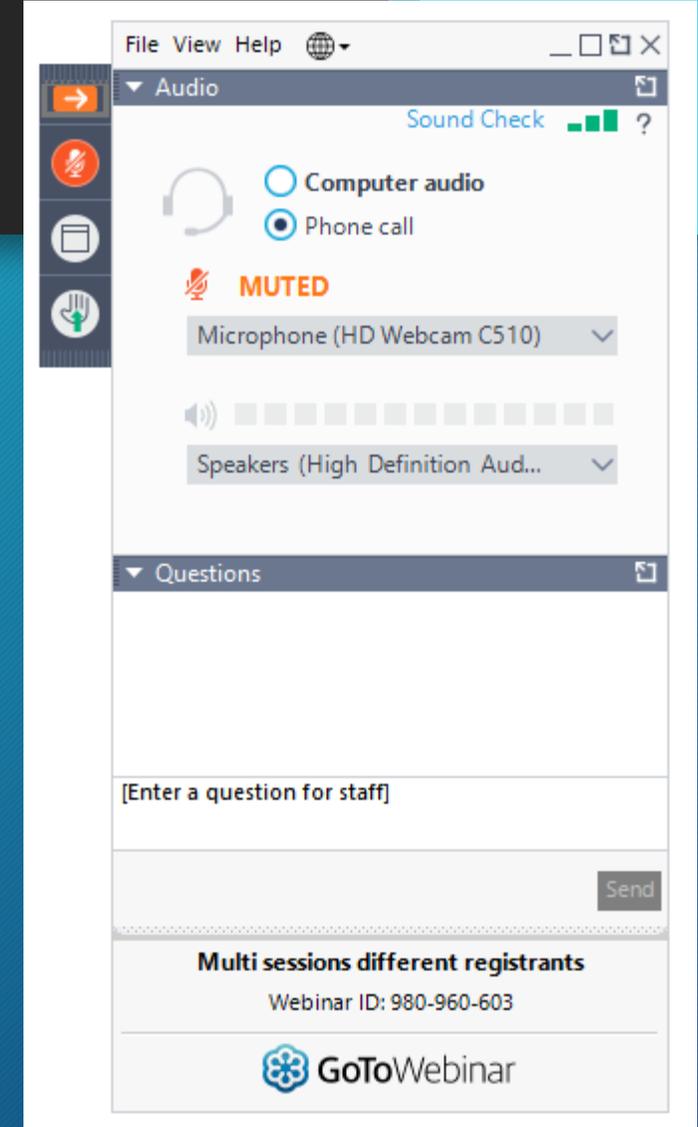
Tumwater WA

# Participating in Q&A and Group Discussion

Raise your hand by clicking on the Hand icon and we will unmute your line. After asking the question, put your hand down by clicking the hand icon again.

or

Submit a comment or question by typing into the Questions box. We will read it aloud.



# Stakeholder Advisory Members

(November 9, meeting #3)

- Vyto Babrauskas, PhD, Fire Science & Technology, Inc.
- Richard Heinrich, Global Regulatory Compliance, LANXESS Solutions UK, Ltd.
- Kimberly Bloor, Deputy State Fire Marshal
- Andrea Carey, Biologist, Washington Department of Fish & Wildlife
- Holly Davies, PhD, Local Hazardous Waste Management Program, King County Parks and Natural Resources
- Kevin Delaney, Environmental Compliance Coordinator, Costco Wholesale
- Elizabeth Friedman, MD, Pediatric Environmental Health Specialty Unit, University of Washington
- Andy Hackman, Juvenile Products Manuf. Association
- A.J. Johnson, Washington Council of Firefighters
- Joe Johnson, Senior Director, Cisco Environmental Affairs
- Chief Scott LaVielle, Washington Fire Chiefs Assoc.
- Donald Lucas, PhD, Lawrence Berkeley National Laboratory (retired)
- Brad Miller, Advocacy & Sustainability, BIFMA
- Gary Chandler, Association of Washington Businesses
- Cheri Peele, MCP, Clean Production Action
- Heather Stapleton, PhD, Associate Professor, Duke University, Nicholas School of the Environment
- Shirlee Tan, PhD, Toxicologist, Seattle-King County Public Health
- Joel Tenney, Director of Advocacy, ICL (Israel Chemicals Ltd)
- Heather Trim, PhD, Executive Director, Zero Waste Washington
- Laurie Valeriano, Executive Director, Toxic-Free Future (Erika Schreder, Science Director TFF)

# Group Process

Together we will:

- Remain respectful. Be open to other viewpoints.
- Give others a chance to share their thoughts.
- Speak clearly (always into a microphone) so those on the webinar can hear those in the room.



# Guiding Principles and Agency Goals

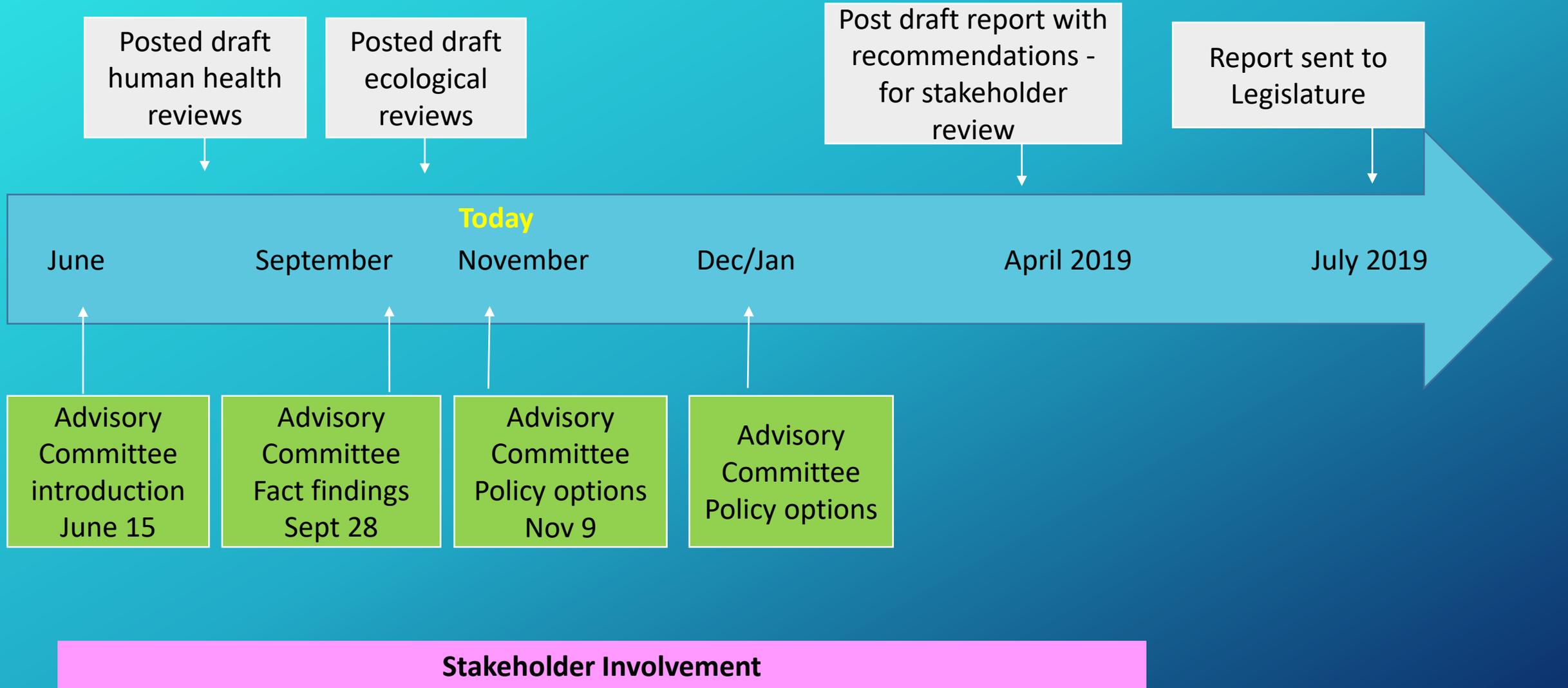
## Goals

- Reduce flame retardant exposure
- Maintain or improve fire safety
- Use safer alternative assessments to avoid regrettable substitutes

## Guiding principles

- Develop policy options that:
  - Offer meaningful improvement
  - Practical
  - Equitable
  - Use best available science

# Updated Project Timeline (2018-19)



# Meeting Agenda

- Introduction
- Flame retardants – Building Insulation
- Flame retardants – Furniture and Juvenile products
  
- Next Meeting - Electronics

# Chart of Uses\*

	2015 U.S. production volume (million lbs/yr)	Home furniture	Electronic enclosures, cables, wires	Children's products	Vehicles	other	Non-FR uses
TBPH	1-10	X	X	X	X	Textiles, leather Foam bedding	a
TBB	CBI	X		X	X	Foam bedding	
TCPP	50-100	X	X	X	X	Textiles, leather Building insulation	c,f,h
TPHP	1-10	X	X	X	X	Textiles, leather	a,b,d,e,f,g
IPTPP	6	X		X		Paints, coatings	a,c,d,e
V6	CBI	X		X	X	Tents, fabrics	

\* Reported by manufacturer or detected in product testing

- a. Plasticizer
- b. Solvents
- c. Adhesives and sealants
- d. Lubricants, greases
- e. Photo chemicals and supplies
- f. Paints and coatings
- g. Cosmetics (nail polish)
- h. Engineered wood products

# RCW 70.240.035 - Developing Policy Options

(4)(a) The department of health must submit to the legislature recommendations on policy options for reducing exposure, designating and developing safer substitutes, and restricting or prohibiting the use of the flame retardant chemicals ...

- Rely on credible scientific evidence.
- Consider quantitative information on exposures to the chemical under its intended or reasonably anticipated conditions of use.
- Consider uses in children's products, residential upholstered furniture, or other commercial products or processes.

# Questions?

Raise your hand by clicking on the Hand icon and we will unmute your line. After asking the question, put your hand down by clicking the hand icon again.

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