



DEPARTMENT OF
ECOLOGY
State of Washington

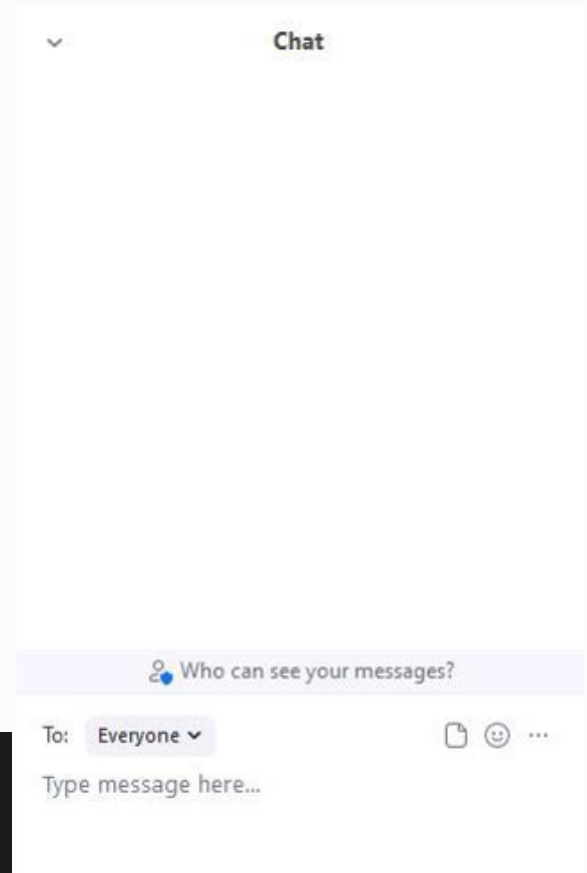
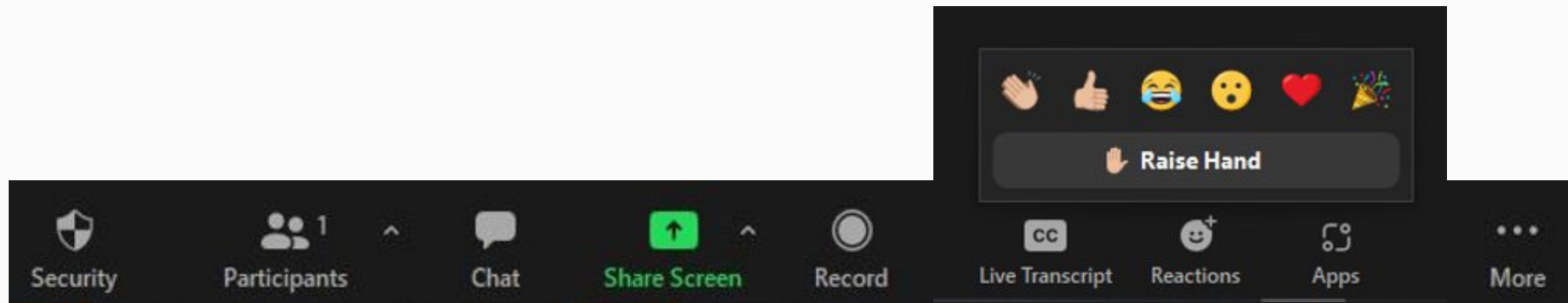
Antifouling Boat Paints in Washington State

Study Update and Information Gathering

Iris Deng, Toxics Researcher
Hazardous Waste and Toxics Reduction Program
September 7, 2023

Zoom logistics

- Send technical issues to the **host** in the chat.
- Send questions, comments, and discussion to **Everyone** in the chat.
- If you have a question, please use the **Raise Hand** button.



Agenda

- 1** Brief Introduction
- 2** Outline of Report
- 3** Timelines
- 4** Information Collection

Long History with Antifouling Paints



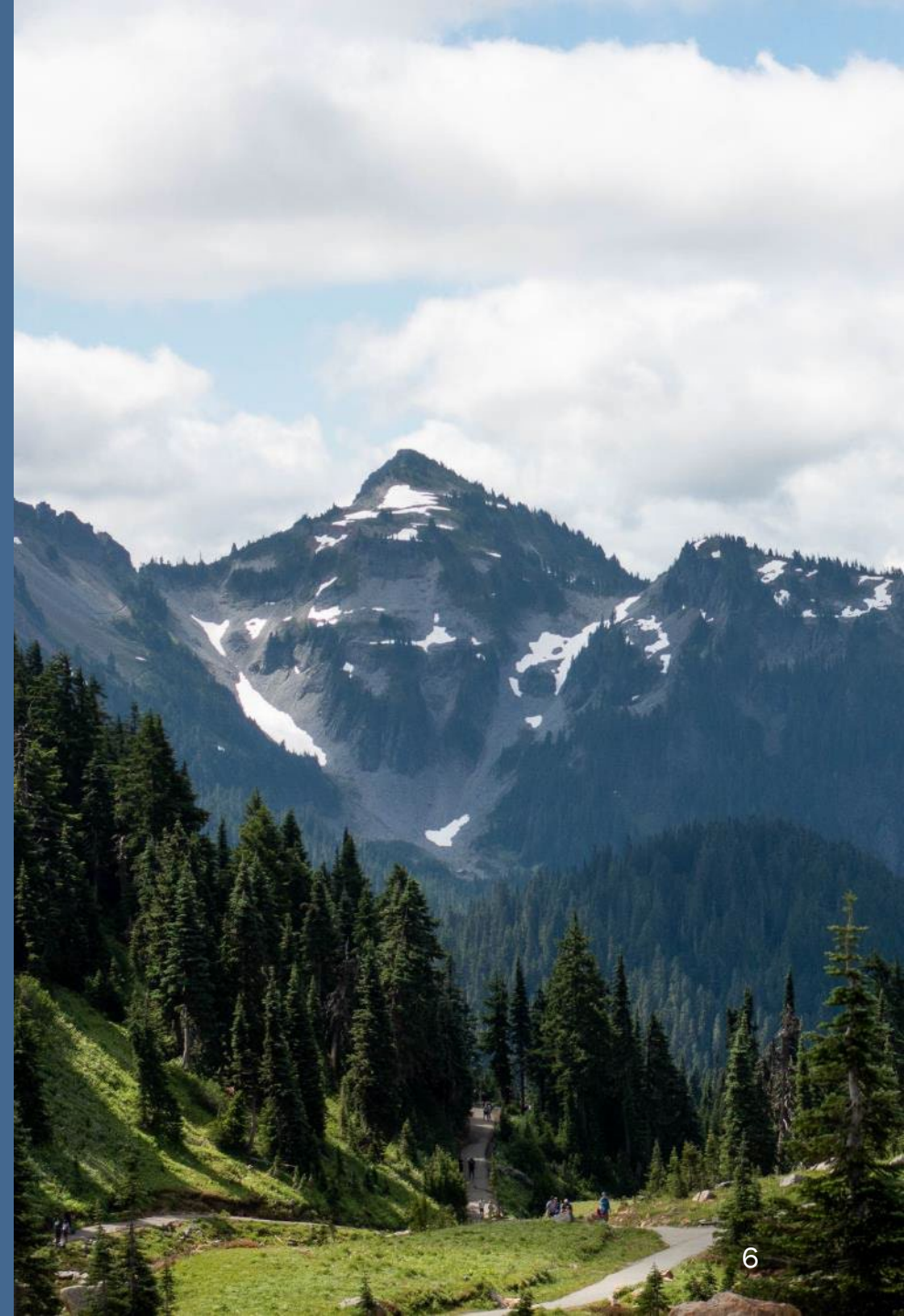
Long History with Antifouling Paints





Outline of Report

- Review of information including biocidal and non-biocidal paints.
- Performance testing in four Puget Sound locations.
- Development of safer criteria for antifouling chemicals.



Review of Information

- Relevant, creditable scientific studies since 2019.
- We focus on studies or publications that discuss:
 - Efficacy, bioavailability, and toxicity;
 - Environmental impacts;
 - Risk assessments;
 - Best management practices for antifouling.



Performance Testing

- 12-month test to compare efficacy
- 19 products were identified through a survey with local boatyards.
- [Quality assurance project plan available online](#)
- Tests started in January 2023. We will include preliminary data in the draft report.



Safer Criteria

- Built based on the framework of Safer Products for Washington (SPWA) safer criteria with modifications.
- Emphasis on non-target species: use additional data review, and only non-target species data for hazard classification



Timelines

- **December 1, 2023:** draft report available to public
- **December 1, 2023 – January 15, 2024:** public comment
- **December 6, 2023:** Second stakeholders meeting
- **June 30, 2024:** report due to legislature

Information Collection

- Do you expect to see new ingredients or new paints become available in the next few years?
- Would you like to share industrial insights about what antifouling paints work (or don't work) in Washington water or a similar environment?
- Do you have additional testing results or performance requirement data to help us make more informed decisions?

Information Collection (continued)

- In addition to meeting the copper leach rate limit, are you concerned about the leaching and environmental exposure of other ingredients from non-copper or non-biocidal bottom paints?
- Is your company maintaining ongoing efforts to explore non-biocidal paints used on recreational boats?
- Changes in paint formulations are expensive and time-consuming. Did your company make any recent R&D investments in bottom paints for the recreational boating market?



Thank you

Iris Deng

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