

## 6PPD ACTION PLAN ADVISORY COMMITTEE MEETING

Virtual (Zoom)  
Tuesday, February 13, 2024  
1:00 to 3:00 p.m.  
Facilitator: Tanya Williams  
Meeting 2 of 6

### Attendees

#### Advisory Committee members in attendance and the organizations they represent:

**Aimee Navickis-Brasch** (Evergreen StormH2O); **Angela Bolton** (City of Mill Creek); **Augie Krupp** (Molecular Rebar); **Caitlin Lawrence** (Washington State University - Puyallup); **Catherine Gockel** (Environmental Protection Agency); **Chelsea Mitchell** (King County); **David Troutt** (Nisqually Indian Tribe); **Don McQuilliams** (City of Bellevue); **Dylan Ahearn** (Herrera); **Eli Mackiewicz** (City of Bellingham); **Emily Gonzalez** (Puget Soundkeeper); **Gabby Rigutto** (ChemFORWARD); **Greg Haller** (Northwest Indian Fisheries Commission); **Heidi Siegelbaum** (WSU Stormwater Center); **Jamie McNutt** (Flexsys); **John Herrmann** (Snohomish County); **Justin Greer** (United States Geological Survey); **Kathie Dionisio** (Environmental Protection Agency); **Katie Byrnes** (Washington Conservation Action); **Keith Estes** (Long Live the Kings); **Kenia Whitehead** GSI (U.S. Tire Manufacturers Association); **Kiersten Maxwell** (University of Washington); **Laurie Valeriano** (Toxic Free Future); **Marc Gauthier** (Upper Columbia United Tribes); **Mary Rouborn** (King County); **Rebecca Cook** (STOI); **River Wan** (Pierce County); **Robert Campbell** (LANXESS Corporation); **Seth Book** (Skokomish Indian Tribe); **Shirlee Tan** (Public Health Seattle King County); **Stephanie Blair** (Washington State University - Puyallup); **Steve Laing** (Trout Unlimited); **Tanya Eison-Pelach** (Affiliated Tribes of Northwest Indians); **Taylor Aalvik** (Affiliated Tribes of Northwest Indians).

#### Washington State agency support staff in attendance:

**Morgan Baker** (Ecology); **Lizzy Baskerville** (Ecology); **Frances Bothfeld** (Ecology); **Madison Bristol** (Ecology); **Holly Davies** (Health); **Elinor Fanning** (Health); **Stephanie Gill** (Ecology); **Adam Hayes** (Ecology); **Cassie Horton** (Ecology); **Mallory Little** (Health); **Amina Al-Tarouti** (Health); **Richelle Perez** (Ecology); **Nathan Lubliner** (Ecology); **Saskia van Bergen** (Ecology); **Craig Manahan** (Ecology); **Katie Pruitt** (Governor's Salmon Recovery Office); **Andrea Carey** (Fish and Wildlife); **Rhea Smith** (Ecology); **Tony Bush** (Transportation); **Tanya Williams** (Ecology); **Lindsey Bineau** (Ecology); **Monica Cornell** (Ecology); **Derek Rockett** (Ecology).

#### Advisory Committee members not present:

**Fran Solomon** (Western Washington University); **Katherine Saluskin** (Yakama Nation Tribal Health); **Jeff Durant** (Flexsys); **Amber Lewis** (Suquamish Tribe); **Sean Dixon** (Puget Soundkeeper Alliance); **Ed Kolodziej** (University of Washington – Tacoma); **HollyAnna Littlebull** (Yakama Nation); **Jen McIntyre** (Washington State University); **Marissa Paulling** (Northwest Indian Fisheries Commission); **Neil Smith** (Flexsys); **Tracey Norberg** (U.S. Tire Manufacturers Association); **Vice Chairman Josh Bagley** (Suquamish Tribe).

Guest attendees:

**Carly Michiels (WPPA); Isabella Caballero; Larry Franks (FISH); Malik Al-Afyouni (Flexsys)**

## **Meeting Notes**

The 6PPD Action Plan advisory committee working meeting #1 began at 1:02 p.m. with 58 attendees. We provided an overview of the agenda and informed participants that we would engage in a group discussion to consider input on comments and edits in the scoping documents. We reminded the advisory committee that we would continue identifying data gaps and research needs during our first working meeting and subsequent meetings.

We clarified the role of the advisory committee and provided input on how we are planning to recognize participants in the Legislative report. We acknowledged that committee members would be recognized for participating and providing expertise to support the development of the 6PPD Action Plan.

Committee members voted to finalize the meeting minutes captured from the January 24, 2024, Kick-Off Meeting. Due to concerns raised by participants, we decided not to continue with the voting process. An advisory committee member proposed that instead of voting, we could ask members if they have any objections to the minutes and work with whoever may object to make corrections. We will consider this approach in subsequent meetings as a solution to finalize our meeting minutes.

### Phase 1 timeline

Ecology reviewed the timeline for Phase 1 of the 6PPD Action Plan with the advisory committee. We discussed where we are in the process, including the need to identify recommendations with overlap or duplication. We reminded committee members to identify data gaps and research needs while including justifications and benefits to support recommendations. We reminded participants that final input is due April 17. We encouraged participants to submit input and recommendations as early as possible to ensure consideration in the final document. We explained that after the deadline, the document would go through internal technical and management review. We will then submit a report to the Legislature by December 2024.

We asked that members reach out to us via email if they are affiliated with organizations that require an internal review process prior to submitting comments. We requested that such individuals notify us as to the level of participation they can provide in the interim to ensure that we are considering all perspectives in the 6PPD Action Plan.

### Group discussion

We discussed comments received during the kick-off meeting. We explained that we captured the feedback that we wanted to bring to the attention of our committee prior to engaging with subgroups. Health stated their subgroup is actively working to address plants, dust, and biomonitoring in the scoping document. Health mentioned they are hoping to address these concerns via the human health recommendation where they propose the analysis of edible

tissues of aquatic species and other biota. Health added there is an opportunity for sampling of some of these drinking products if they are identified as priorities.

We facilitated discussions about crumb rubber, turf fields, pilot projects, and stormwater retrofits. Health mentioned that crumb rubber is currently a topic in both Health and Products, and that turf field is an area that has been understudied for a long time, although DOH has done some work on it in the past. A committee member felt that we needed more aggressive and immediate recommendations and proposed that we ban these pellets on turf fields. The member indicated that we shouldn't be selecting alternatives to products in the action plan; rather, that is the process and responsibility of Safer Products for Washington.

Health identified this as a cross-cutting issue that needed a coordinated discussion to write the best recommendation to address scrap tires, stormwater run-off, and alternatives. The advisory committee discussed the cost of stormwater retrofit, pilot projects, and raised questions about what percentage of the funding would go to retrofits and to the Tribes.

#### Themes and comments for discussion

Ecology will identify areas of potential overlap, including routes of exposure and fate and transport. We indicated that spin-off groups may form to work on these cross-cutting issues. We informed participants about the new Product subgroup which focuses on other products and tires containing 6PPD. Ecology is also considering the option of looking into PPDs as a class.

#### Document feedback guidelines

We reviewed the document feedback guidelines and reminded participants to add their initials to comments and to not delete or modify text. We encouraged members to contact us if there are any questions about the document feedback guidelines.

#### Next steps

We invited members to review the scoping documents and provide feedback, add data gaps and research need recommendations, or comment on existing recommendations with ideas or suggested edits. We reminded participants to add references that supported their recommendations. We reminded participants that we will convene for our second working meeting on March 5.

#### Subgroup break-out session

To close the meeting, we created seven subgroup breakout rooms in the following focus areas: stormwater management and transportation retrofits; alternatives; sampling, monitoring, fate and transport; solid waste; ecotoxicology; human health; and products. Subgroups provided input in the scoping documents and developed justification and benefits to support recommendations.

At our next meeting, we'll ask subgroups to bring forward any items that came up during breakouts that should be elevated to the larger group for discussion. We'll also review comments within documents to identify items that need to be discussed amongst the whole advisory committee, and we'll create space at the next meeting for subgroups to report on any of those such items discussed.

### Feedback/Comments Received for Additional Discussion

The table below provides a selection of comments for additional discussion at our upcoming meeting. Some of these comments were received verbally during the larger group discussion and some were pulled from meeting chats, including subgroup meeting chats. You can access a complete list of the main group meeting chat and subgroup meeting chats in the files tab of the "General" channel in our action plan Teams channel.

Input	Focus Area
What about shredded tire pellets that are used on artificial turf fields? Is that something we should also be concerned about?	Human Health, Solid Waste
And are similar materials used in playground surfaces?	Human Health, Solid Waste
We need more aggressive and immediate recommendations and should ban these pellets on turf fields. We shouldn't be selecting alternatives to products in the action plan; rather, that is the process and responsibility of Safer Products for Washington. <sup>1</sup>	Human Health, Solid Waste
And garden mulch made of shredded tires?	Human Health, Solid Waste
We have many communities of color in the tire resale/recycle - that will be an interesting part of the tire 'journey'	Human Health, Solid Waste
I don't know about this - but are tires burned in energy reclamation projects? Maybe not in north America - is our inquiry confined to WA, US?	Human Health, Solid Waste
Is anyone adopting the formal use of the precautionary principle in their policies?	Products
Natural Grass is the only alternative identified in the TURI report	Products
6PPD is a notable issue in certain communities that brings them a lot of anxiety, and support for local media, such as in different languages, would help alleviate this anxiety.	Human Health, Community Partnership
Is it completely beyond the scope of this to add a recommendation that we petition for federal funds (grants not loans) directed for municipalities to design, plan, and implement GSI for 6PPD/6PPDq treatment?	Stormwater Best Management Practices, Stormwater Retrofits

<sup>1</sup> Note: Summary of verbal comment; not a direct quote.

Input	Focus Area
If 6ppd is converted to 6ppd-q in contact with ozone, does it matter to measure the amount of ozone in the near-ground area on different roadway types?	Stormwater
Containerized biofiltration systems that are ideal for previously restored land and habitat have shown promising results as well but more funding is needed to increase data confidence and implementation on more sites.	Stormwater
The other challenge is existing infrastructure -- many of the runoff streams are co-mingled... runoff from parking lots and fields and forests and housing developments all connects in the main. By that point, you have to treat all of the runoff (so build a much larger facility) to get the 6ppd that only comes from the driving surfaces. And then you have to discharge that water to a stream without re-co-mingling it. Some of the construction costs long term might include rebuilding all of the conveyance.	Stormwater Best Management Practices, Stormwater Retrofits

### Links/Resources Shared in Zoom Chat, including Breakout Session Chats

- [Guidance on using new high performance bioretention soil mixes](#)
- [Federal Research on Recycled Tire Crumb Used on Playing Fields](#)
- [Coho Urban Runoff Mortality Syndrome](#)
- [Barlus Underwater Camera](#)
- [Coho Urban Runoff Mortality Syndrome in Puget Sound](#)
- [Task 1: Urban Stormwater Runoff Preliminary Needs Assessment](#)
- [Athletic Playing Fields](#)
- [Environmental Incentives](#)
- [Center for Bioplastics and Biocomposites](#)
- [Puget Sound Federal Leadership Taskforce](#)
- [Economic partnerships](#)

### Action Items

- Review scoping documents in the Teams channels and provide input for the focus area(s) you are interested in, or comment on existing recommendations.
- Add justifications, benefits, and references that support your recommendations.
- Let us know if you are having difficulty accessing the Teams channel.