

6PPD ACTION PLAN ADVISORY COMMITTEE MEETING

Virtual (Zoom)
Tuesday, March 5, 2024
1:00 to 3:00 p.m.
Facilitator: Tanya Williams
Meeting 3 of 6

Attendees

Advisory Committee members in attendance and the organizations they represent:

Aimee Navickis-Brasch (Evergreen StormH2O); **Alison Osullivan** (Suquamish Tribe); **Augie Krupp** (Molecular Rebar); **Catherine Gockel** (Environmental Protection Agency); **David Troutt** (Nisqually Indian Tribe); **Don McQuilliams** (City of Bellevue); **Eli Mackiewicz** (City of Bellingham); **Emily Gonzalez** (Puget Soundkeeper); **Gabrielle Rigutto** (ChemFORWARD); **Greg Haller** (Northwest Indian Fisheries Commission); **Haley Lewis** (Environmental Protection Agency); **Heather Trim** (Zero Waste Washington); **Jamie McNutt** (Flexsys); **Jeff Durant** (Flexsys); **John Herrmann** (Snohomish County); **Katherine Saluskin** (Yakama Nation Tribal Health); **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); **LeeAnn Racz** (ToxStrategies, LLC); **Marc Gauthier** (Upper Columbia United Tribes); **Marissa Paulling** (Northwest Indian Fisheries Commission); **Mary Rouborn** (King County); **Melissa Heintz** (ToxStrategies, LLC); **Rebecca Cook** (STOI); **River Wan** (Pierce County); **Robert Campbell** (LANXESS Corporation); **Sara Hutton** (GSI – U.S. Tire Manufacturers Association); **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); **Tracey Norberg** (U.S. Tire Manufacturers Association); **Vice Chairman Joshua Bagley** (Suquamish Tribe).

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); **Cassie Horton** (Ecology); **Mallory Little** (Health); **Richelle Perez** (Ecology); **Nathan Lubliner** (Ecology); **Craig Manahan** (Ecology); **Katie Pruitt** (Governor's Salmon Recovery Office); **Andrea Carey** (Fish and Wildlife); **Rhea Smith** (Ecology); **Tanya Williams** (Ecology); **Lindsey Bineau** (Ecology); **Monica Cornell** (Ecology); **Kimberly Grieves** (Ecology); **Blake Nelson** (Ecology); **Derek Rockett** (Ecology).

Advisory Committee members not present:

Heidi Siegelbaum (WSU Stormwater Center); **Sean Dixon** (Puget Soundkeeper Alliance); **Amber Lewis** (Suquamish Tribe); **Angela Bolton** (City of Mill Creek); **Caitlin Lawrence** (Washington State University – Puyallup); **Chelsea Mitchell** (King County); **Dylan Ahearn** (Herrera); **Ed Kolodziej** (University of Washington – Tacoma); **Fran Solomon** (Western Washington University); **HollyAnna Littlebull** (Yakama Nation); **Jen McIntyre** (Washington State University); **Seth Book**

(Skokomish Indian Tribe); **Justin Greer** (United States Geological Survey); **Neil Smith** (Flexsys); **Shirlee Tan** (Public Health Seattle King County).

Guest attendees:

David Feifarek; **Julie Panko** (ToxStrategies, LLC); **Stephanie Kennedy** (ToxStrategies, LLC)

Meeting Notes

The 6PPD Action Plan advisory committee second working meeting began at 1:02 p.m. with 59 attendees. We provided an overview of the agenda and informed participants that we would break into combined subgroups at the end of the meeting to discuss cross-cutting topics and recommendations. We reminded the advisory committee that we are still looking to refine recommendations and solicit input that we can incorporate into the Action Plan.

We reviewed the action plan development schedule and reminded members that final input is due April 17. We informed the committee that we will close all scoping documents on March 26 while we consolidate recommendations into a single document. Subgroup leads available to support this effort will finalize and incorporate comments during this time. We will send a collated document to members on April 4, and they will have until April 17 to review and comment. We reminded participants to contact us if their organization requires an internal review process prior to submitting input.

We finalized the meeting minutes captured from the first working meeting, held on February 13, 2024. We asked members if they had any objections to the meeting minutes or if we needed to make any corrections to the document. There were no objections or concerns raised.

Group Discussion

Subgroup leads gave an update on breakout room discussions from the last meeting. They also discussed some of recommendations that subgroups have developed so far.

- **Madison Rose Bristol (Stormwater management and transportation retrofits):**
Common themes identified by this subgroup are: the need for long-term funding; recognition that implementation of best management practices (BMPs) takes several years and has potential barriers; and a desire to develop a toolbox of retrofits for use by permittees to equitably and efficiently install stormwater BMPs. This last recommendation would include a prioritization framework by the Federal-State-Tribal stormwater transportation working group, a barriers analysis to identify what inhibits implementation of stormwater BMPs, and balancing lab with field studies. The group also discussed the need to monitor BMP effectiveness in the field and collate BMP implementation sites and effective monitoring.

The subgroup is considering equitable implementation of BMPs to avoid burdening communities. Location of BMP implementation is actively being considered and includes adoption of prioritization framework and studies to understand where 6PPD could be a problem and what we can do about it. The subgroup added a new recommendation to

evaluate and establish 6PPD operations and maintenance best practices to ensure the long-term effectiveness of BMPs.

- **Craig Manahan (Alternatives):** Members of this subgroup have been discussing three recommendations. They created a new recommendation to request feedback from the Federal government on Ecology's 6PPD alternatives assessment hazard criteria. Manufacturers are wary there are not yet federal hazard criteria. The subgroup had also discussed using state funding to assess tire performance and safety of new alternatives. Because industry is already doing this, however, they thought it may not be the best use of public funds. Therefore, this subgroup is focusing on testing needed to assess the hazards of existing chemical alternatives to determine whether a safer alternative is feasible and available.
- **Rhea Smith (Sampling, monitoring, fate, and transport):** The subgroup identified several themes, including the need for ongoing and consistent monitoring funding to keep up with the pace of urban development. They also recognized the need for more integration in monitoring while understanding that coordination takes time and effort. There is a need to co-locate stream monitoring with stormwater data and use existing monitoring program platforms (including the TBIOS group, freshwater monitoring teams in EAP, and Tribes) to support data management and quality assurance. Rhea indicated there may be existing coordination frameworks, such as the Recreation and Conservation Office, to develop toxics ecosystems networking. This would support strong coordination around Tribal and Treaty Rights. Shorter-term monitoring and studies will also help us understand the fate of this contaminant.
- **Derek Rockett (Solid Waste):** Derek added two new recommendations to the solid waste scoping document. The first recommendation proposes that when Chapter 173-350 WAC, Solid Waste Handling Standards, is opened for revision, the section 173-350-350, Waste Tire Storage, should be revised to include location standards like those required for inert waste landfills. Derek encouraged advisory committee members to review the new recommendations. A committee member asked for clarification around landfill and tire storage, specifically whether drainage and stormwater systems would be addressed in the stormwater subgroup or the solid waste subgroup. We clarified there are provisions in the solid waste handling standards, but this may fall with stormwater.

The second recommendation focused on waste tire cleanups. Ecology conducts waste cleanups on a first-come, first-serve basis. This recommendation could help streamline waste tire cleanups (administered through funds provided from Substitute House Bill 2085) by prioritizing cleanups that have the potential to harm the environment with leachate containing 6PPD. Cleanup prioritization would be based on proximity to critical areas, streams with impacted species, surface waters, water sources, wetlands, flood plains, and any other areas with potential impacts to water. Additionally, tire cleanups should take environmental justice into account during prioritization, using the Washington Environmental Health Disparities Map.

Another recommendation the subgroup is working on is to conduct a life cycle analysis of secondary ownership of tires (reused, recycled, and repurposed) to understand the environmental effects of secondary use. This recommendation incorporates transportation, run-off, and air emissions considerations.

- **Cassie Horton (Ecotoxicology):** The Ecotoxicology subgroup has been actively refining four recommendations based on identified data gaps and research needs. The group created a recommendation to expand ecotoxicological studies while considering species in addition to salmonids, such as lampreys and shellfish. The group created another recommendation to fund research on sublethal effects on species that share coho habitat. Cassie encouraged advisory committee members to add input in the scoping document to refine recommendations. Ecotoxicology has identified an overlapping sampling recommendation that may be incorporated into the statewide sampling program recommendation.
- **Elinor Fanning and Mallory Little (Human health):** Health incorporated the feedback they received in the scoping document. They asked members to contact them if they missed any input.

The subgroup received a recommendation to seek funding to support local media reporting on 6PPD and 6PPD-q. Health has moved this recommendation to the community partnership scoping document since the suggestion doesn't fit in human health. They added a recommendation to investigate and report the effects on people's health from non-chemical stressors that result from 6PPD and 6PPD-q in the environment. To date, no such research has been conducted in Washington state to demonstrate how these nonchemical stressors affect groups including Tribes, Asian American Pacific Islanders (AAPI), other immigrant communities who participate in subsistence fishing, and the recreational fishing population.

The subgroup seeks coordination on sampling planning so that human health and exposure considerations are factored into where water sampling occurs (for example, does sampling capture areas of fishing and subsistence). Both subgroup leads are working closely with the Office of Drinking Water on map layers that can be used to identify drinking water sources in Washington that may be vulnerable to contamination by stormwater runoff from impervious roadway surfaces. Once these map layers are added, they can be viewed alongside areas affected by stormwater runoff to identify potentially susceptible drinking water sources. It could take another week or two to coordinate details with the Office of Drinking Water.

- **Nathan Lubliner (Products):** This subgroup received input to consider developing recommendations for PPDs as a class. The group created a recommendation to define a broader class or classes of PPD chemicals for: 1) consideration as a priority chemical class under Safer Products for Washington; and, 2) recommendations in subsequent phases of the 6PPD Action Plan.

A second recommendation encourages identification of products containing PPDs, including non-tire products. The subgroup's third recommendation proposes establishing funding and technical guidance to support replacement of crumb rubber-based turf fields. The subgroup's fourth recommendation is to incentivize innovation and green chemistry in tire materials and other products that use PPDs.

An advisory committee member asked for clarification on the turf field recommendation. Specifically, they wanted to know how and when the recommendation for athletic playfields shifted from banning these fields to providing technical assistance. This was discussed later in the meeting during subgroup breakout sessions.

Cross-cutting issues

We realigned our breakout rooms into combined "supergroups" to share deeper conversations on overarching issues, including crumb rubber and other tire-derived products; innovation in alternatives; PPDs as a class; a state-wide sampling program; and solid waste and products. Participants discussed these topics and relevant recommendations within these "supergroups."

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 will be closing scoping documents to combine recommendations into one scoping document on March 26 and will send out this collated document on April 4. Our third working meeting will take place on March 26 from 1 to 3 p.m.

Subgroup breakout sessions

We created a combined breakout room for products, alternatives, solid waste, and human health to discuss overarching issues. We also created a combined breakout room for human health, ecotoxicology, and sampling/monitoring/fate and transport to identify cross-cutting recommendations related to the proposed statewide sampling program. The stormwater management and transportation retrofit subgroup also met during this time.

Following the discussion in the combined "supergroups," we created individual subgroup breakout rooms in the following focus areas: sampling, monitoring, fate and transport; ecotoxicology; and human health. Subgroups provided input in their 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. We'll create time at the next meeting for subgroups to report on any of these items.

Feedback/Comments Received for Additional Discussion

The table below provides a selection of comments from the meeting. Some of these comments were received verbally during the larger group discussion and some were pulled from the main meeting chat. 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 |
|--|---|
| I didn't hear in your report around the citing of opportunities and looking at things in watersheds for usual and accustomed areas and Tribes to keep fishing rights because it is important to us. | Community Partnership, Stormwater |
| There was no discussion on drainage and stormwater systems. Will that be handled in stormwater or the solid waste section? That distance from the storm drain is important. | Solid Waste, Stormwater |
| The recommendation on athletic playfields went from banning it to technical assistance. | Products |
| Was there discussion on use of recycled tires in playgrounds, landscaping, etc.? | Products, Solid Waste |
| For the EJ considerations of solid waste management - I would encourage additional assessments beyond the environmental health disparities map, especially for impacts to Tribal Nations, communities, and U&As. | Community Partnership, Solid Waste |
| How about waste generated from street sweeping and catch basin cleaning which are supposed to be 6PPD-q? | Stormwater Best Management Practices, Solid Waste |
| This has been a concern about the street sweeping recommendation, would be good to review impacts. | Stormwater Best Management Practices |
| Is lab capacity addressed in the recommendations? | Sampling |

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

- [Small Business Innovation Research \(SBIR\) Program](#)
- [Safer Products for Washington](#)
- [CalSafer](#)

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.