

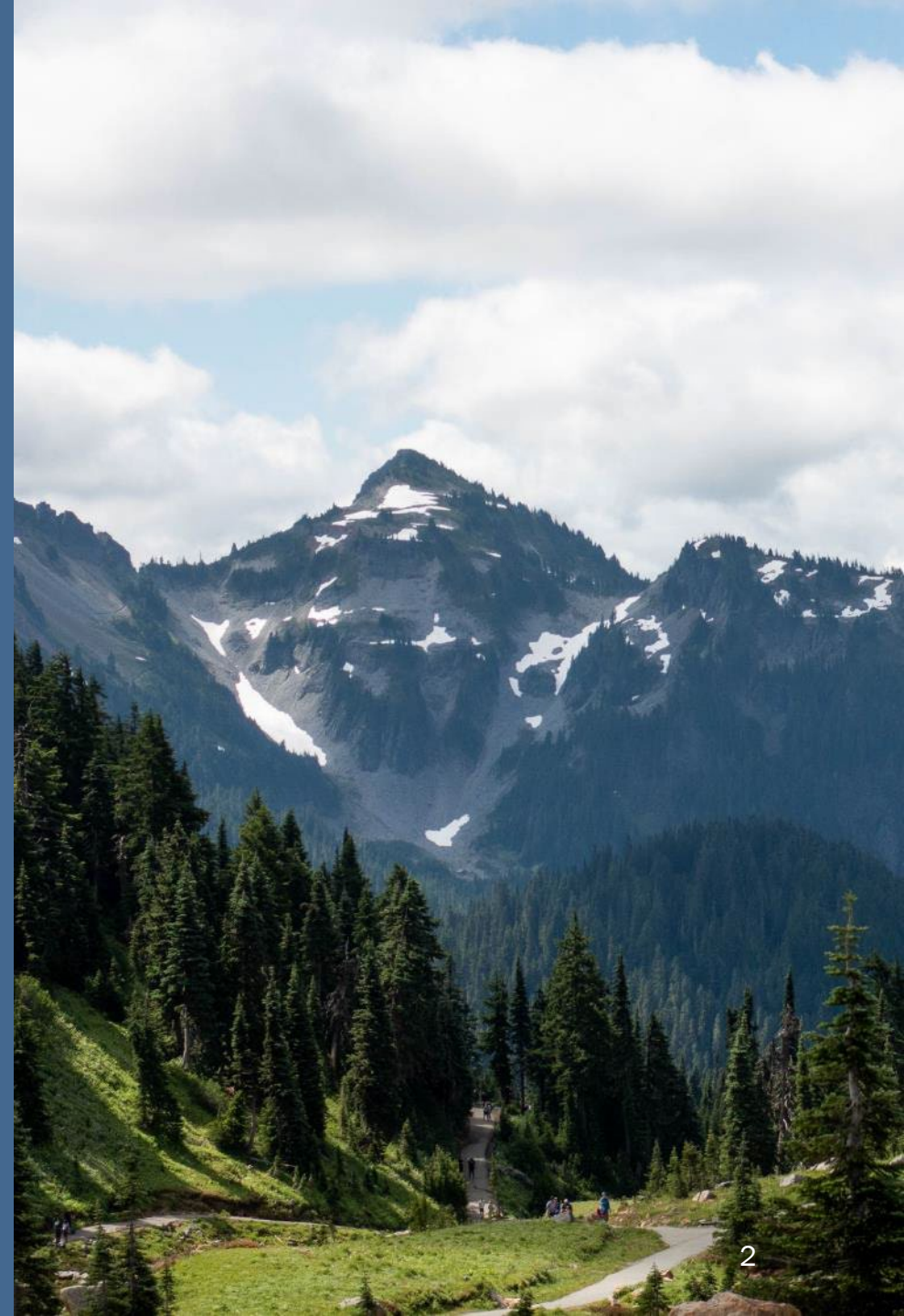


6PPD Action Plan: Advisory Committee Phase 1 Wrap-Up Meeting

April 17, 2024, from 10 a.m. to 12 p.m.



Welcome





Agenda

- Welcome
- Schedule and updates
- Recommendations
 - 10-minute break at 10:55 a.m.
- Next steps



Schedule and Updates

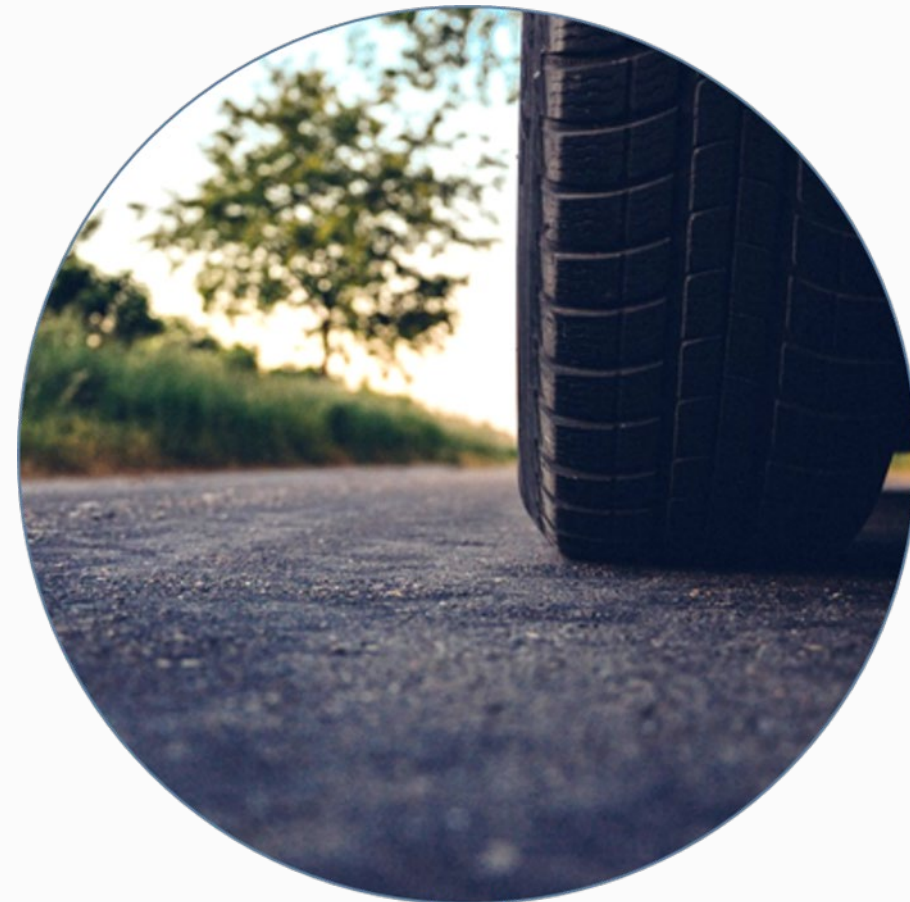


Phase 1 Review Timeline

- **April 2024 - May 2024**
 - Internal (Washington State staff) technical review
 - Tribal Government review
- **June 2024**
 - Ecology staff finalize Phase 1 of the Action Plan
- **June 2024 - December 2024**
 - Internal management review of Phase 1
- **December 2024**
 - Legislative report published

Final Report Due December 2024

- **December 2024**
 - Phase 1 of the Action Plan is published as part of a Legislative report (progress report)
- We will share a link to this report with the advisory committee once it is published.
- We will also summarize any changes that occurred between May 2024 and Dec. 2024 during management review.



Advisory Committee Next Steps

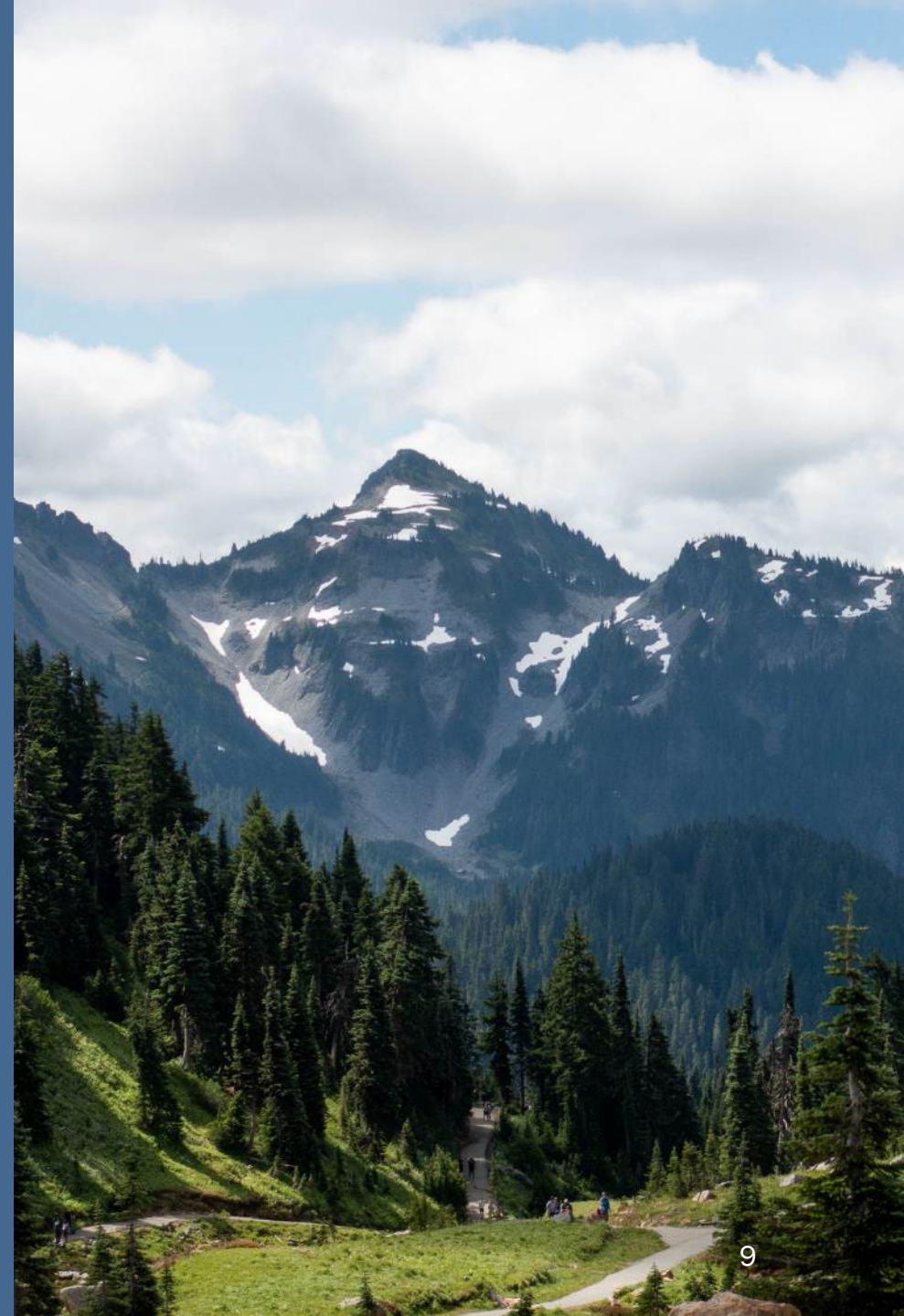
- **April 17:** Final comments due from advisory committee.
- **May 21:** Advisory committee planning meeting.
 - We'll share any significant changes to phase 1 recommendations.
 - We'll share the recommendations that will be supported by a budget package.
 - We'll review phase 1 process – what did you like? What could we improve upon?
 - We'll discuss future steps– what do you think would be beneficial for us to do next?

Meeting Minutes

- We will take notes and compile all input for the advisory committee to review.
- Working meeting #3
 - We sent a copy of our meeting minutes on April 1 for your review and feedback.
 - **If there are no objections, we will finalize Working Meeting #3 notes.**



Recommendations





Recommendations

- We've begun responding to comments within the collated document.
- We'll respond to any final comments and begin incorporating feedback after today's meeting.

Committee Recommendation Review

- We'll try to review each of the 39 recommendations, focusing first on the ones that have generated the most discussion to date.
- **We want to hear feedback on the big picture...**
 - Is the scope of recommendations sufficient? Any redundancies?
 - Anything we missed?
- **And we also want feedback on the individual recommendations.**
 - Will they have the desired impact? Are they feasible?
 - Anything we're missing or anything that's unclear?

Alternatives

- **Recommendation 1:** Fund research to assess hazard and performance of potential safer alternatives to 6PPD in tires.



Community Partnership



Recommendation 2: Develop a Washington State Tribal Leaders Advisory Board to support continuous engagement and participation in projects related to 6PPD and salmon recovery.



Ecotoxicology

- **Recommendation 5:** Develop and fund research on species native to the Pacific Northwest, such as shellfish, lamprey, other fishes, and plant life.
- **Recommendation 6:** Expand research to determine the extent and magnitude of 6PPD bioaccumulation and biomagnification in juvenile salmonids and other aquatic biota in Puget Sound.

Environmental Monitoring and Research

Recommendation 8: Establish a Toxics and Salmonids Ecosystem Monitoring Program (TSEMP) that integrates and expands existing priority toxics and salmon monitoring efforts.

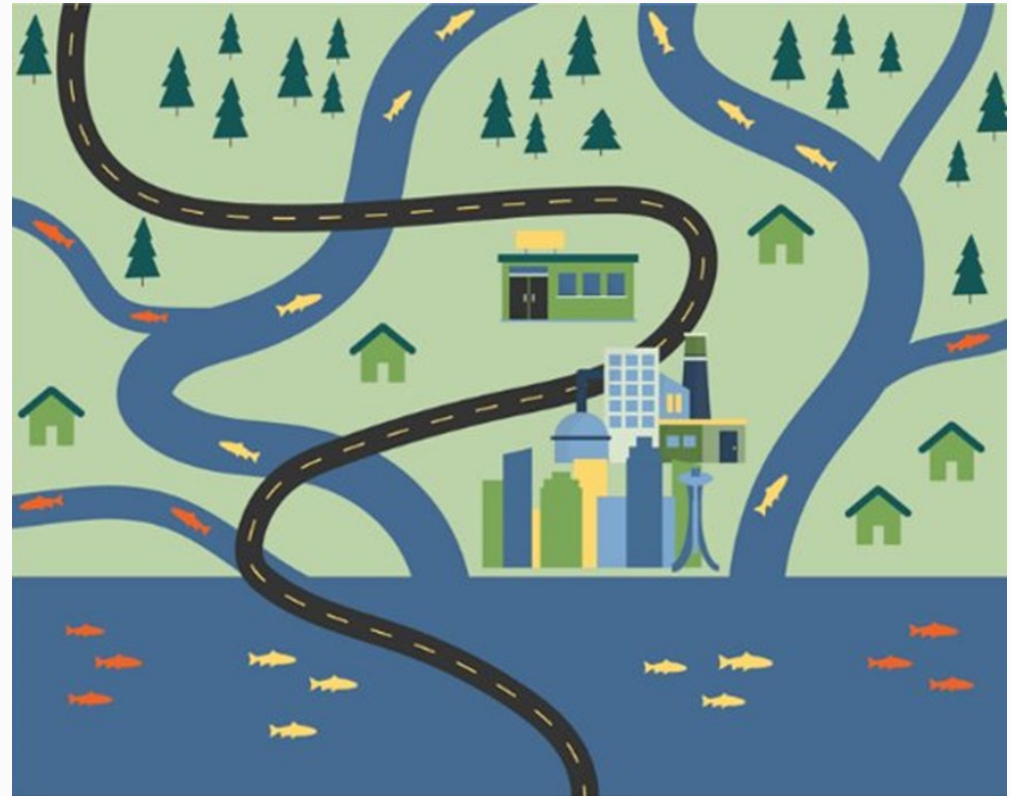


Photo: WA Department of Ecology

Environmental Monitoring and Research (*cont.*)

- **Recommendation 10:** Expand lab capacity to support additional 6PPD-quinone monitoring and research to inform mitigation actions and measure effectiveness.
- **Recommendation 11:** Continue to streamline lab accreditation resources to expedite 6PPD-quinone accreditation for laboratories in Washington state.
- **Recommendation 12:** Develop a feasibility assessment for a Toxics Salmonid Ecosystem Health Monitoring Initiative through local source identification pilot studies.

Human Health and Exposure



- **Recommendation 15:** Assess the potential for 6PPD and transformation products to reach Washington drinking water sources.
- **Recommendation 16:** Sample and analyze edible tissues of aquatic species and other biota, including but not limited to salmonids.

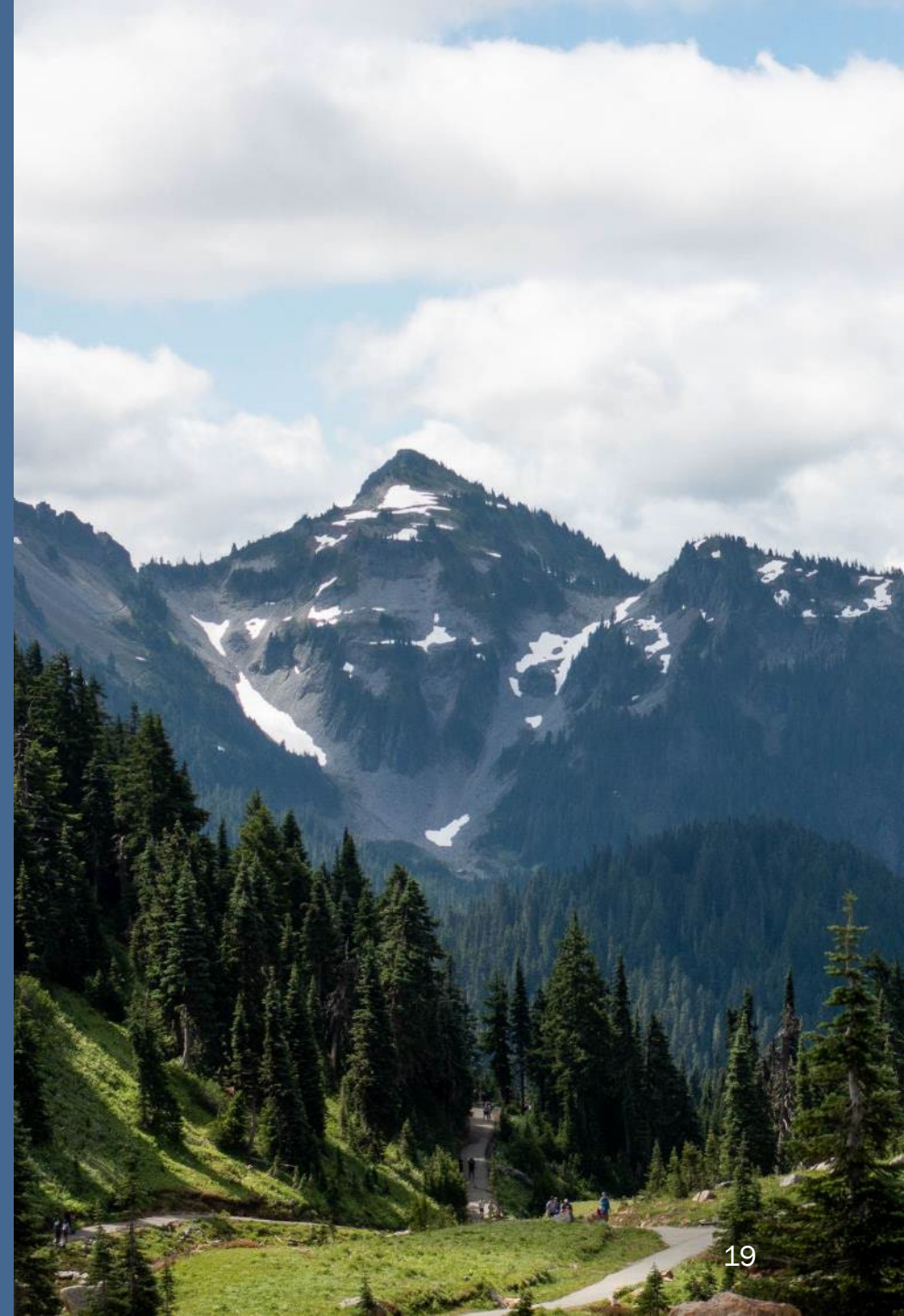
Products

- **Recommendation 18:** Define a broader class or classes of PPD chemicals for consideration as a priority chemical class under Safer Products for Washington and recommendations in the Action Plan.
- **Recommendation 19:** Identify and prioritize product categories that contain PPDs of concern, with an initial focus on non-tire products and products made from tires.





**Break
10 minutes**



Products (*cont.*)

- **Recommendation 20:** Take action to replace crumb rubber-based outdoor recreational surfaces in Washington with safer options and prioritize overburdened communities for funding and technical assistance.
- **Recommendation 21:** Create incentives and invest in initiatives to identify sustainable chemistry and materials for use in tires and other products that use PPDs.





Solid Waste/Tire Recycling

- **Recommendation 22:** Complete a fish bioassay study to determine designation under WAC 173-303-100(5)(c).
- **Recommendation 24:** Assess reuse products (e.g. playground surfaces, traffic control devices, pavements, synthetic turf infill, flooring, rubber mulch) as a source of 6PPD and 6PPD-quinone.
- **Recommendation 26:** Ecology should prioritize waste tire cleanups, administered through funds provided from Substitute House Bill 2085, according to potential harm to the environment and human health.

Stormwater Best Management Practices and Transportation

- **Recommendation 27:** Provide long-term funding for best management practice (BMP) effectiveness research, including implementing and monitoring BMPs installed in the field and conducting laboratory studies.
- **Recommendation 28:** Implement the low-risk, high-reward stormwater mitigation pilot projects that the Puget Sound Stormwater and Transportation Charter Group identified.
- **Recommendation 29:** Develop a toolbox of retrofits that stormwater managers and permittees can use.



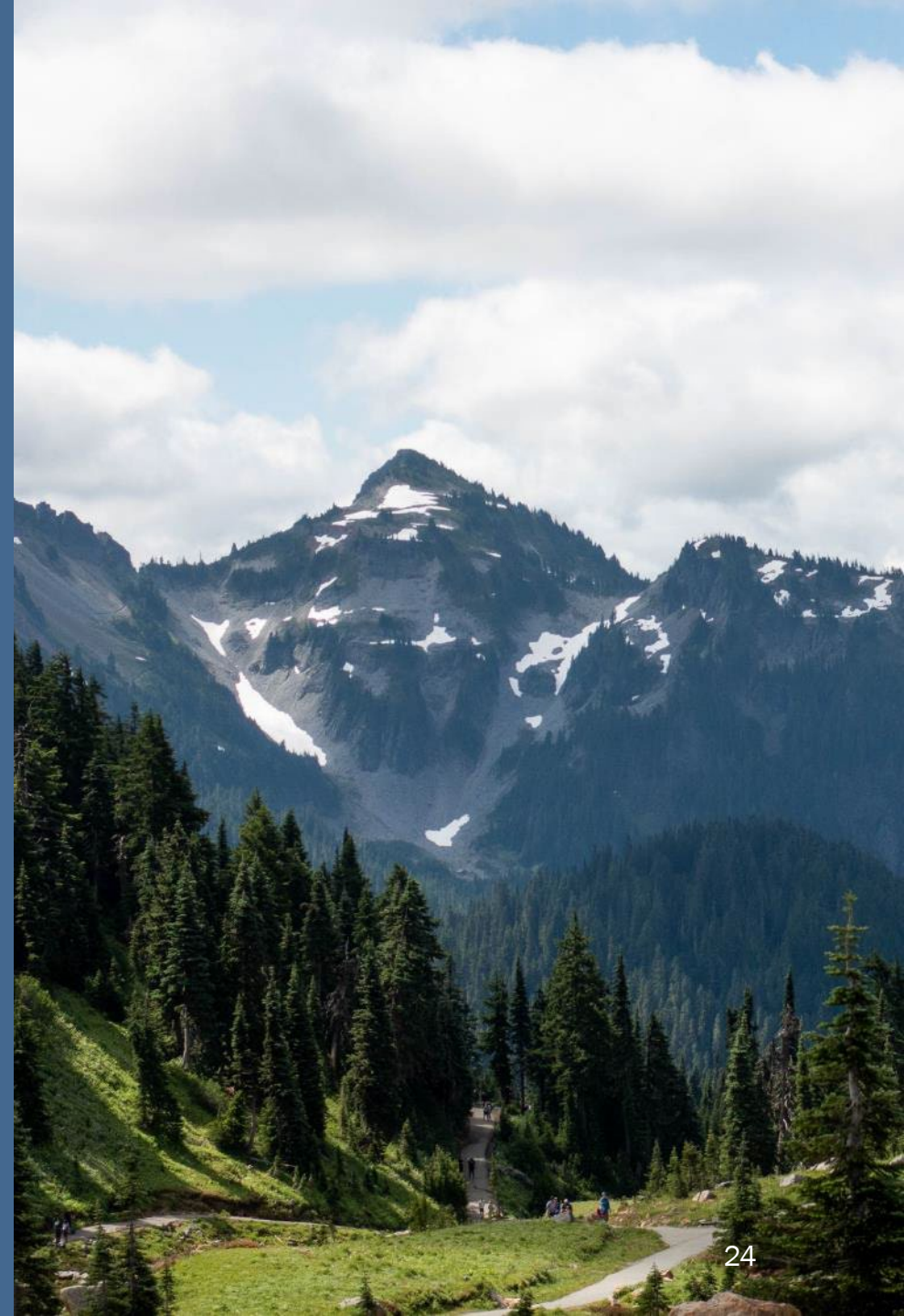
Photo credit: WSDOT, 2024.

Stormwater Best Management Practices and Transportation (*cont.*)

- **Recommendation 33:** Create a dedicated funding pool for creating community co-benefits and addressing environmental injustices through the installation of stormwater BMPs.
- **Recommendation 34:** Dedicate funding toward evaluating and implementing 6PPD operations and maintenance (O&M) best practices to ensure the long-term effectiveness of BMPs.



Other Recommendations





Community Partnership

Recommendation 3: Seek funding to support reporting and risk communication on 6PPD and 6PPD-q in ethnic media outlets (i.e. radio, newspaper).

Ecotoxicology

- **Recommendation 4:** Conduct research on 6PPD and 6PPD-quinone's mechanisms of action on coho salmon and other salmonids.
- **Recommendation 7:** Fund research for sublethal effects on marine and freshwater aquatic species.



Environmental Monitoring and Research

Recommendation 9: Review Ecology's Environmental Information Management System (EIM) to identify enhancement opportunities that will address unique data repository and mining needs for 6PPD, 6PPD-quinone, and future contaminants of emerging concern (CECs).



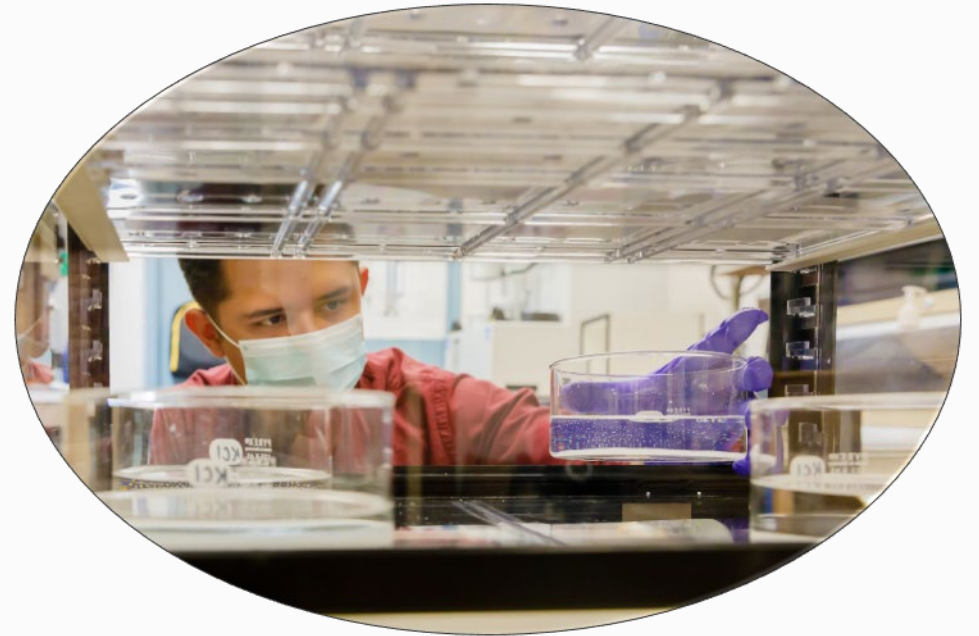


Federal Engagement

Recommendation 13: Continue tracking and engaging with ongoing federal 6PPD work to ensure Washington State's work aligns with current federal knowledge, guidance, and initiatives.

Human Health and Exposure

- **Recommendation 14:** Continue to assess emerging science and research on human exposure pathways and potential health hazards of 6PPD and transformation products, including 6PPD-quinone (6PPD-q).
- **Recommendation 17:** Investigate and report effects on people's health from nonchemical stressors that result from 6PPD and 6PPD-q in the environment.



Solid Waste/Tire Recycling

- **Recommendation 23:** Assess proper storage, handling, and disposal methods of tires and post-consumer tire waste products that designate as dangerous waste.
- **Recommendation 25:** When Ecology opens Chapter 173-350 WAC (Solid Waste Handling Standards) for revision, we should revise the current section 173-350-350 (Waste Tire Storage) using current studies to evaluate the waste tire permit threshold. Additionally, we should establish location standards similar to those required for inert waste landfills.



Stormwater Best Management Practices and Transportation

- **Recommendation 30:** Increase staff and funding support for the Stormwater Work Group.
- **Recommendation 31:** Research the relative impacts of transportation features on 6PPD for use by transportation planners.
- **Recommendation 32:** Center Tribal Treaty Rights in stormwater management, including prioritizing salmon recovery in Usual and Accustomed Areas (U&As) and maximizing the health and abundance of salmon at a watershed scale.

Stormwater Best Management Practices and Transportation (*cont.*)

- **Recommendation 35:** Support salmon recovery lead entities to implement the Retrofit Prioritization Framework developed by the Puget Sound Stormwater and Transportation Charter Group.
- **Recommendation 36:** Conduct a barriers analysis of factors that limit the efficient installation of stormwater BMPs for municipalities and permittees.

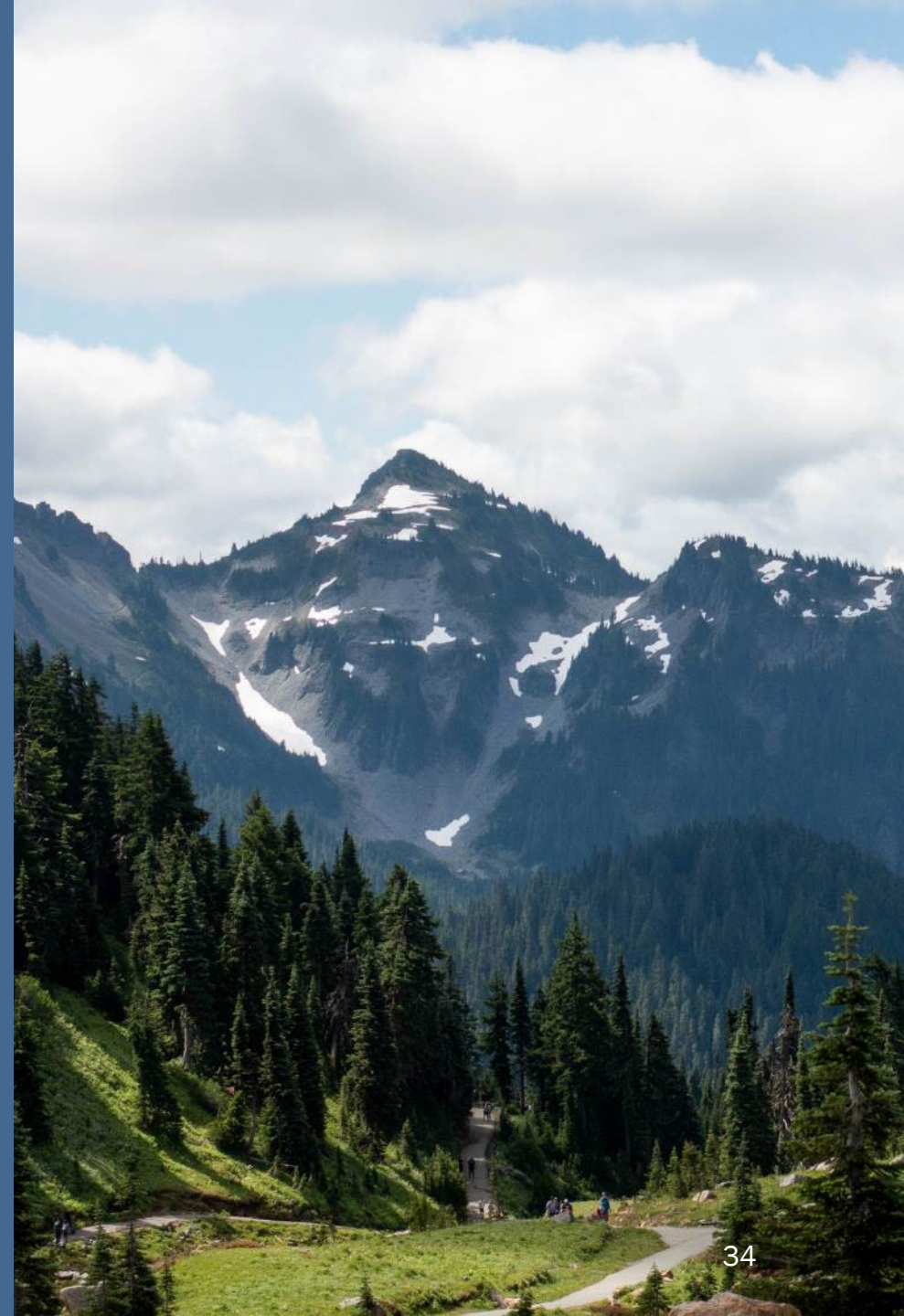


Stormwater Best Management Practices and Transportation (*cont.*)

- **Recommendation 37:** Investigate alternative methods of funding stormwater BMP installation to reduce impacts to overburdened communities and permittees.
- **Recommendation 38:** Reduce negative impacts to permittees and help permittees meet the new 6PPD-q Aquatic Life Toxics Criteria water quality standards.
- **Recommendation 39:** Exempt 6PPD-quinone from the statewide environmental consultants vendor pool.

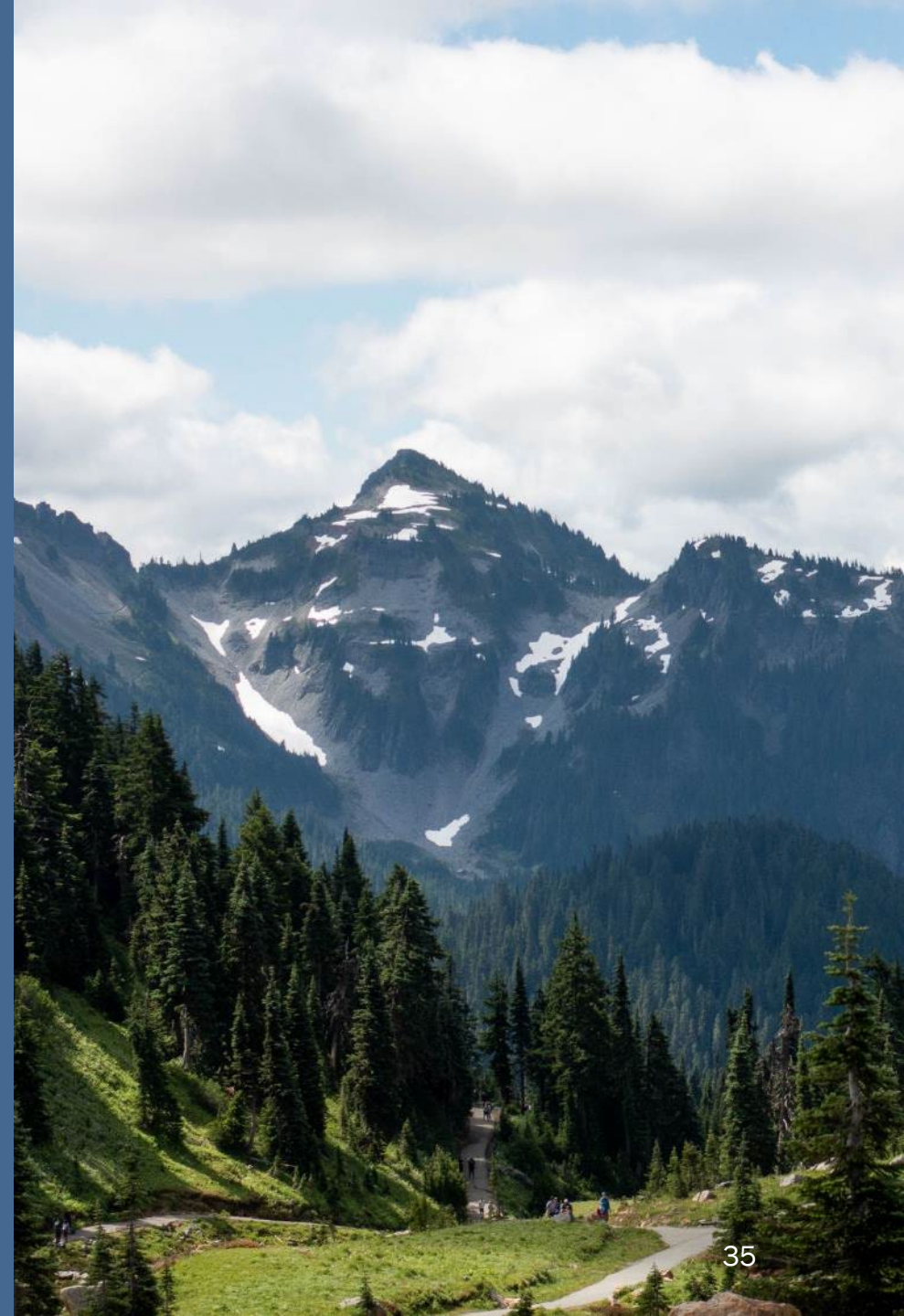


Questions?





Next Steps



Next Steps

- Submit your final feedback by EOD.
- Reflect on phase 1 of the Action Plan:
 - What did you like most about the process?
 - What could we improve upon?
 - Do you have suggestions to improve the experience of advisory committee members in the future?
- **Next meeting: May 21, 2024, from 10 a.m. to 12 p.m.**
 - Zoom link to come.



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