

6PPD Subgroup Meeting Agenda March 13th, 2024

5 min Welcome

Eli Mackiewicz, Co-Chair

SWG 6PPD Subgroup formed in 2020 and met monthly with support of SWG. 18 months ago the subgroup changed meeting times to quarterly. The goal of the SWG 6PPD Subgroup is to share the latest science on 6PPD/6PPD-q, particularly as it relates to stormwater.

25 min Updates from the Washington State Department of Ecology (ECY)

Shelby Giltner

- Update on Lab Methods for Water Samples
 - Manchester Environmental Lab is accredited for water samples. [Microsoft Word - 730136 v1.2 6PPD-Q Extraction and Analysis.docx \(wa.gov\)](#)
 - EPA has released a Draft Method for water samples [6PPD-q Method 1634 \(Not yet approved\) | US EPA](#)
 - Discussion on difference between methods
 - Ecology Method – SOP MEL730136, Version 1.2
 - 250mL grab samples. Bottle type not specified.
 - 28 days is the sample hold time.
 - Extraction hold time is 40 days.
 - Liquid chromatography triple quadrupole mass spectrometer system (LC-QQQ)
 - EPA Method – Draft Method 1634
 - 250mL grab sample collected in amber glass jar with PTFE-Lined Cap.
 - 14 days is the sample hold time.
 - Extraction hold times is 28 days.
 - Liquid Chromatography with Tandem Mass Spectrometry (LC/MS/MS).
 - Ecology funded projects are required by agency policy to use accredited labs. We can also use data from non-accredited labs for regulatory purposes, but the data must be qualitative or validated by a third party. This agency policy only restricts lab use for Ecology and our contractors. Other organizations are welcome to use their preferred labs to analyze 6PPD-q.

- Updates on funded projects
 - **RFP Update**
 - Ecology is required to use a state-approved vendor pool via the new Department of Enterprise Services' (DES) [Environmental Consulting Services contract](#). This statewide vendor pool allows Ecology to move to negotiating scopes of work immediately if vendors can provide the 6PPD research needed.
 - The 6PPD-q RFP qualified for Categories 1-5
 - Questions regarding the vendor pool can be directed to: sarah.smith@des.wa.gov or descontractsteamapple@des.wa.gov
 - Ecology contacted the vendors from the vendor pool and will review any proposals from vendors from this pool through early April.

Stormwater Work Group

<https://sites.google.com/site/pugetsoundstormwaterworkgroup/>

- This is a shift from the initial plan for an RFP release, but Ecology is hopeful that this required process will still allow us to fund studies that will fill crucial data gaps. If Ecology receives full proposals that meet research standards, Ecology can immediately move into the contracting phase.
- If the vendor pool does not meet the research needs, Ecology may choose to move forward with publishing an RFP to a broader audience.
- This does not change the status of the Stormwater SIL's RFP or Ecology ability to enter into Interagency Agreements (IAA's). Ecology still has funds to distribute through these funds. If you have questions about any of this information, reach out at to Madison Rose Bristol at madison.bristol@ecy.wa.gov.
- Stormwater SIL RFP for Innovative BMP Installations In Toxic Hotspots and Transportation Areas opened Wednesday March 20th.
 - [Stormwater Strategic Initiative Lead Request for Proposals](#)
 - Contact Dustin Bilhimer with SIL RFP questions: dustin.bilhimer@ecy.wa.gov
- Funding Questions from the chat:
 - Are lab services included in this DES pool?
 - Not in this vendor pool, but DES does have an [Analytical Lab Services](#) vendor pool.
 - Can the BMP Effectiveness Research fund be applied to a retrofit project (rain garden)?
 - Any project funded by BMP Effectiveness Research dollars would require a focus on treating a transportation area or similarly large impervious surface. Site considerations and priorities will need to be described in the application. Any rain garden would also need to be constructed to standards in the Western WA stormwater manual. The goal is to understand how these already accepted practices perform for 6PPD or PCB removal.
 - Ecology also has funding through the Water Quality Combined Fund which is available every October for stormwater retrofits. You can generally get 75% of a qualifying project funded through that competitive grant program.
 - [Water quality combined - Washington State Department of Ecology](#)

15 min Updates from Stormwater Work Group study selection

Madison Bristol

- Updates on funded projects (see Table 1 below)
 - Looking to award 5-15 more projects
 - Duration for projects = June 2025 with chance to extend
 - King Count HPBSM
 - UW-Tacoma
 - King Count Environmental Lab
 - Herrera
 - SAM Projects funded with 6PPD-q
 - WSU-Puyallup
 - Redmond
 - WA Stormwater Center
 - Seattle Public Utilities
 - King County

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- City of Tacoma
- NEP SIL embankment study
- If you interested in pursuing a project, please contact us ASAP. Reach out at to Madison Rose Bristol at madison.bristol@ecy.wa.gov.

DETAILS	6PPD IAAs	Stormwater SIL RFP
Qualifying Applicants	Tribal Nations and public organizations as defined by RCW 39.34.020	Public or non-profit organizations or Tribal Nations around Puget Sound
Available Funding	\$500,000	\$1.5 million
Number of Awards	5 to 15 awards	3 to 15 awards
Duration of Projects	Until June 2025*	Until December 2027
Solicitation Opens	Proposals considered on a rolling basis	March 20, 2024
Application Deadline	Proposals considered on a rolling basis	May 22, 2024

Table 1: Available funding for 6PPD BMP effectiveness research from the Washington Department of Ecology.

- Draft Aquatic Life Toxics Criteria. Can we link slide?
 - Protect the most sensitive species at their most sensitive life stage
 - Draft criteria is 8 nanograms
 - [WAC 173-201A-Aquatic Life Toxics Criteria - Washington State Department of Ecology](#)

15 min Group discussion

Eli Mackiewicz

- Updates on research
 - Update on 6PPD road map. Old slide is going away. SEE ATTACHED SLIDE
 - The group priorities in stormwater management and geography/priorities
 - We do not focus on analytical methods or product replacement.
 - New 6PPD roadmap [6PPD Roadmaps.pdf \(wa.gov\)](#)
 - This group is focusing on
 - Effective stormwater BMPs
 - Transportation retrofits
 - SWG is focusing on stormwater manuals and permits.
 - Human toxicity is a question commonly asked but stormwater does not focus on that aspect, but it is being assessed by the Department of Health
 - Product replacement is also a part of the Action Plan

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- This new roadmap provides a more detail view of the 6PPD Action Plan
 - Action plan roadmap did not include communities/public participation.
 - It is included heavily in the Action Plan
 - Next phases will be more involved by engaging high priority communities.
 - Reach out Tanya (tanya.williams@ecy.wa.gov) for information beyond BMP effectiveness
- Updates on 6PPD Action plan
 - 6PPD-Action Plan: [Department of Ecology - Committees, Boards, and Workgroups \(wa.gov\)](#)
 - Tire Contaminant Story Map to inform sampling study designs and how Ecology address tire containments: [Tire Contaminants \(wa.gov\)](#)
 - For additional information on the 6PPD-Action Plan contact Tanya Williams at tanya.williams@ecy.wa.gov
- Updates on projects from the group
 - Jonathan Halam shared his recently published paper:
 - [Frontiers | Watershed analysis of urban stormwater contaminant 6PPD-Quinone hotspots and stream concentrations using a process-based ecohydrological model \(frontiersin.org\)](#)
 - A question in the chat asked about Oregon based 6PPD-q groups. These links were shared:
 - [About Us – Clean Rivers Coalition](#)
 - [Home - Managing Stormwater in Oregon \(oregonstormwater.com\)](#)

10 min Break

20 min Presentation

Mary Rabourn – King County Water and Land Resources

- STORM - *Don't Wait to Inflate Campaign* [Presentation Slides \(wa.gov\)](#)
 - [Don't Wait to Inflate \(pugetsoundstartshere.org\)](#)
 - The design of the program started in 2020 when 6PPD was discovered resulting in the need for a communication plan.
 - Fighting your bias is a key to a successful outreach campaign. We tend to think that everyone thinks like us and that everyone wants to take information through the same mechanisms, but in fact this is not true. These biases can limit the audiences we are reaching. A well-crafted program breaches the biases, get people excited, and bridge the data gaps.
 - STORM conducted audience research to determine how to present the campaign
 - Preferred method was to check tire pressure monthly and add air as soon as possible
 - Improving driver safety and saving money were the focus not necessarily saving Coho
 - Environmental priorities did not appeal to the research focus group
 - Campaign Objectives
 - Drive Safer
 - Save Money
 - Save Coho salmon
 - Primary call to action: check tire pressure monthly and add air soon.

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- Questions from the chat:
 - Will you be running this same campaign in the fall?
 - Everything in the environmental field usually needs to address a behavior change. Behavior change campaigns are a 10-year investment.
 - To do this well the campaign will continue, one round of the campaign will not be effective. The campaign needs repetitions, so yes, the campaign will continue.
- How does a permitted municipality become part of STORM?
 - Contact Mary Rabourn with King County at (mary.rabourn@kingcounty.gov)
- What is the cost of the advertisement?
 - Campaigns are funded by local partners and grant funding
- Helpful links:
 - [SCIENCE TALK '24 - Association of Science Communicators](#)
 - www.pugetsoundstormgroup.org.docx (live.com)

Wrap up

Eli Mackiewicz

- Forecasting next quarterly meeting April May June
 - In person meeting
 - Location/Date: Location TBA/Date Late summer-early fall
 - Who is willing to host?
 - Who is willing to present?
 - Suggestions for future 6PPD Subgroup topics
 - To see more on prioritization of BMP implementation sites, which would probably fall under ID vulnerable areas.
 - ESA compliance in regard to 6PPD-q.

View the SWG 6PPD Subgroup Website

We regularly update the [SWG 6PPD Subgroup website](#) with information about upcoming meetings, past meeting materials, and important SWG documents.

Contact Us

The SWG 6PPD Subgroup is organized by a dedicated team of stormwater staff. Please reach out to the following individuals if you have questions about the subgroup or the SWG:

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