



APR 02 2024

BOARD of CLALLAM COUNTY COMMISSIONERS

MINUTES for the week of March 25-29, 2024

WORK SESSION – 9 a.m.

The work session convened at 9 a.m., Monday, March 25, 2024. Present were Commissioners Ozias, Johnson and French, and Administrator Mielke.

Items of discussion per the agenda published March 21 were:

- Calendar/Correspondence
- Resolution appointing LaTrisha Suggs and Andrew Schwab to the Solid Waste Advisory Committee
- Letter of support for the Lower Elwha Klallam Tribe and Port of Port Angeles Congressionally Directed Spending request
- Resolution for appointments and designations of/for each member of County of the Washington Counties Risk Pool
- Removed: Interlocal agreement for Kitsap Critical Incident Response Team
- Agreement with the City of Forks for law enforcement services
- Briefing and call for bids to be received no later than Tuesday, April 23, 2024 at 10 a.m. for Art Barn Roof Replacement project
- Briefing and call for hearing to be held no Tuesday, April 16, 2024 at 10:30 a.m. for the Parks and Recreation Master Plan Amendment
- Update on the 2024 Clallam County Comprehensive Parks and Recreation Master Plan survey
- Briefing and call for hearing to be held on Tuesday, April 16, 2024 at 10:30 a.m. regarding the Federal Surface Transportation Block Grant STBG program
- Briefing and call for request for bids to be received no later than Tuesday, May 7, 2024 at 10 a.m. regarding the McDonald Creek Irrigation and Fish Passage Improvement project
- Washington State Association of Counties legislative agenda proposal(s) discussion

Meeting concluded at 10:31 a.m.

REGULAR MEETING OF THE BOARD OF CLALLAM COUNTY COMMISSIONERS

Chair French called the meeting to order at 10 a.m., Tuesday, March 26, 2024. Also present were Commissioners Ozias and Johnson and Administrator Mielke.

REQUEST FOR MODIFICATIONS/APPROVAL OF AGENDA

ACTION TAKEN: CRJm to adopt the agenda as presented, CMOs, mc

PUBLIC COMMENT

- John Worthington, Sequim, commented on item 1d, 2a, and 2b

CONSENT AGENDA

- 1a Approval of vouchers for the week of March 18
- 1b Approval of minutes for the week of March 18
- 1c Resolution appointed Judith Sarles to the Trails Advisory Committee
- 1d Letter of support for the Lower Elwha Klallam Tribe and Port of Port Angeles Congressionally Directed Spending request
- 1e Resolution closing Public Works RID #149 Osborn Road fund
- 1f Proclamation recognizing Welcome Home Vietnam Veterans Day
- 1g Proclamation recognizing Dark Sky Week

ACTION TAKEN: CRJm to adopt the consent agenda as presented, CMOs, mc

REPORTS AND PRESENTATIONS

- CRJ read the Proclamation Recognizing Welcome Home Vietnam Veterans Day
 - Bill Stehle, Sequim, VFW Post 4760, provided comment
- CMF read the Proclamation Recognizing Dark Sky Week
 - Scott Trout, provided comment
- CMO commented on Clallam Transit Rider Program, indigent defense lawsuit, Washington State Association interim director, Vietnam Veterans Ceremony
- CRJ commented on Revenue Advisory Committee Meeting, Timber Counties Caucus, Port Angeles YMCA Learning Center
- CMF commented on department staff meetings, Olympic Community Action Programs, Forks Chamber

CONTRACTS AND AGREEMENTS

- 2a Memorandum of understanding with Agnew Irrigation District for the McDonald Creek Irrigation and Fish Passage Project

ACTION TAKEN: CRJm to approve, CMOs, mc

- 2b Agreement amendment 1 with Washington State Recreation and Conservation Office for the North Olympic Peninsula LE BN 23-25 Project

ACTION TAKEN: CRJm to approve, CMOs, mc

- 2c Agreement amendment 17 with Department of Health for various Health and Human Services Programs

ACTION TAKEN: CRJm to approve, CMOs, mc

- 2d Agreement with Washington Association of Sheriffs and Police Chiefs for 24-7 Sobriety Program

ACTION TAKEN: CRJm to approve, CMOs, mc

PUBLIC WORKS

- 3a Annual certification for Road Fund expenditures for fish passage barrier removal and traffic law enforcement

ACTION TAKEN: CRJm to approve, CMOs, mc

HEARING(S)

- H1 Ordinance amending Title 31, Comprehensive Plan Map, and Title 33, Zoning Map, of the Clallam County Code Application REZ 2023-00001 and REZ 2023-00002

Application REZ 2023-00001 Yakovich:

- Donella Clark, Department of Community Development, provided a staff report

ACTION TAKEN: CMFm to open the public hearing, CMOs, mc, CRJ abstained

- The following sent in written testimony: Steve Wirth and Dennis Yakovich (see attached)
- The following provided testimony:
 - Steve Wirth, agent for applicant
 - Kenneth Reandeau, Port Angeles

ACTION TAKEN: CMOm to close the public hearing, CMFs, mc, CRJ abstained

ACTION TAKEN: CMOm to approve an Ordinance amending Title 31, Comprehensive Plan Map, and Title 33, Zoning Map, of the Clallam County Code Application REZ 2023-00001, CMFs, mc, CRJ abstained

Application REZ 2023-00002 Fire District #3:

- Donella Clark, Department of Community Development, provided a staff report

ACTION TAKEN: CMOm to open the public hearing, CRJs, mc

- No one provided testimony

ACTION TAKEN: CMOm to approve an Ordinance amending Title 31, Comprehensive Plan Map, and Title 33, Zoning Map, of the Clallam County Code Application REZ 2023-00002, CRJs, mc

BOARD of CLALLAM COUNTY COMMISSIONERS
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- H2 Consideration of resolution adopting the following Debatable Emergencies:
NonDept – Indigent Defense – Additional funding is needed to cover two conflict attorney contracts. One for District Court, the other for Juvenile Offender. These new contracts were not yet in progress when the 2024 Budget was adopted/\$29,723

- ATM, briefed the Board

ACTION TAKEN: CRJm to open the public hearing, CMOs, mc

- No one provided testimony

ACTION TAKEN: CRJm to close the public hearing and adopt, CMOs, mc

BUDGET

- 4a Resolution to consider adopting the following Budget Reductions:

PW – RID #149 Osborn Road – The Road Improvement District #149 Osborn Road project was completed in 2023. This fund will no longer be used as it is now inactive, and will be closed/\$836

ACTION TAKEN: CRJm to adopt, CMOs, mc

- 4b Resolution to consider adopting the following Budget Revisions:

NonDept – American Rescue Plan Act – Reallocation of ARPA funding for the Board room technology project; additional 2023 invoice not received until 2024/\$49,072

District Court I – To fund the unbudgeted promotion of a Clerk I employee to a Court Clerk II position beginning March 2024. This revision is needed to shift funding from Extra Help to Salaries and Benefits/\$2,000

WSU Extension – Reallocation of funding to cover 2023 expenditures paid in 2024, and reallocating budget for actual expenses/\$99,101

ACTION TAKEN: CRJm to adopt, CMOs, mc

- 4c Resolution to consider adopting the following Supplemental Appropriations:

HHS Operations –

- The Washington State Department of Health Consolidated Contract is adding additional WIC funding. This funding will be used to support the budgeted costs of the WIC program/\$34,113
- Additional funding is received from FPHS Communications to be used for the installation of a new electronic sign at the 3rd Street building location/\$50,000

HHS – Developmental Disabilities – The DSHS Developmental Disabilities state contract is adding additional revenue for administration. This funding will be used for supplies and furnishings. Purchases will include replacing and older desk that is being shared by two individuals to be better able to accommodate two employees, bookshelves, additional secure locking file storage, and replenish program supplies/\$25,152

Sheriff – Operations – WASPC has awarded the Sheriff's Office with \$44,865 to pay for the initial contract payment of our Axon Body Worn Camera implementation. This will reimburse the first year of contract coverage providing equipment, digital storage, licenses, and maintenance. County Risk covered this cost, so this reimbursement will allow the Sheriff's Office to repay Risk's investment in this program/\$44,865

ACTION TAKEN: CRJm to adopt, CMOs, mc

PUBLIC COMMENT

- Jamie Porter, Sequim, commented on Towne Road
- Matt Heins, Sequim, commented on Towne Road
- Cindy Kelm, Sequim, commented on Dark Sky Week, Environmental Protection Agency
- John Worthington, Sequim, commented on not being allowed to use Zoom options camera, screen share
- Dave Kelm, Sequim, commented on Towne Road (see attached)
- Ed Telenick, Sequim, commented on item H1
- Denise Lapio, Sequim, commented on Vietnam Veterans Proclamation, Clallam County concerns, Towne Road

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- Rebecca Horst, Sequim, commented on Towne Road
- Jeff Tozzer, Sequim, commented on Zoom options, emergency guide, Towne Road
- Derrick Eberle, Sequim, commented on Towne Road
- Karin Cummins, Sequim, commented on liens, Towne Road
- Thomas Ash, Sequim, commented on Towne Road
- Charles Main, Sequim, commented on Towne Road

Conversation was held regarding commenting and virtual options during meetings.

Meeting concluded at 12:10 p.m. and continued to an executive session at 1 p.m.

EXECUTIVE SESSION

The Board convened in open session at 1 p.m. to discuss litigation. Present were Commissioners Ozias, French and Johnson, Administrator Mielke, Chief Civil Prosecuting Attorney Boughton, Chief Financial Officer Lane, Sheriff's Office King, and Health and Human Services Department LoPiccolo and Oppelt.

The Board may recess into Executive Session to consider employment or dismissal of personnel, to review the performance of a public employee, to consult with legal counsel, to consider the position to be taken in collective bargaining, to consider acquisition or sale of real estate, or other matters per RCW 42.30.110.

ACTION TAKEN: CRJm to recess to executive session for 30 minutes, CMOs, mc

The Board recessed into executive session at 1:02 p.m.

The Board convened in open session at 1:30 p.m.

ACTION TAKEN: CRJm to allow the Prosecuting Attorney's Office to file a proof of claim related to the Rite Aid Bankruptcy regarding the Opioid Settlement, CMOs, mc

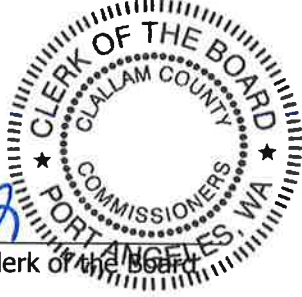
Meeting concluded at 1:31 p.m. and continued to 9 a.m., Monday, April 1, 2024

The Board of Commissioners attended joint meeting with Clallam County PUD, Revenue Advisory Committee meeting, Williams Shore Memorial Pool District meeting, Coffee with Colleen, and a Vietnam Veterans Day Ceremony during the week of March 25.

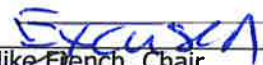
PASSED AND ADOPTED this 2 day of April 2024.

ATTEST:

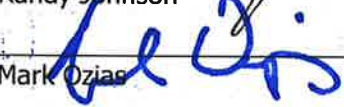
Loni Gores, MMC, Clerk of the Board



BOARD OF CLALLAM COUNTY COMMISSIONERS


Mike French, Chair


Randy Johnson


Mark Ozias

KEY TO ABBREVIATIONS:

ATM Administrator Todd Mielke
CMO Commissioner Mark Ozias
CRJ Commissioner Randy Johnson
CMF Commissioner Mike French

m moved
mc motion carried
s seconded

BOARD OF CLALLAM COUNTY COMMISSIONERS PUBLIC HEARING

H1 Ordinance amending Title 31, Comprehensive Plan May, and Title 33, Zoning May, of the Clallam County Code Application REZ 2023-00001 Yakovich

I declare under penalty of perjury under the laws of the State of Washington that any testimony that I give is true and accurate. Please print name and address clearly.

Nº	PRINTED NAME	SIGNATURE	ADDRESS
1	Kenneth Reardon		P.A
2	Steve Wirth		PA
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Signed on March 26, 2024 in Port Angeles, Washington

Comments Item H1
Public Hearing
3/26/24

March 20, 2024

RECEIVED
CLALLAM CO. COMMISSIONERS

MAR 21 2024

1...2...3...A...

CCDCD

From; Agent – Steve Wirth
Applicants – Dennis and Karen Yakovich

To; Clallam County Board of Commissioners

Subject; Approval of Rezone Amendment Application #REZ2023-00001

Commissioner Ozias, Commissioner French, Commissioner Johnson (recused)

We are submitting this letter in conjunction with our previous application, and with CCDCD report of recommendation of Approval.

As a previous Planning Commissioner, and a Chairman of that recommending board, I feel I have a good understanding of the regulations and requirements that are applicable for a comprehensive plan and zoning map amendment. Prior to submitting the application, I requested, and was able to meet with CCDCD to discuss the validity and possibility of obtaining a successful comprehensive plan and rezone amendment. After two meetings we decided that a rezone amendment could be issued a Determination of Non- Significance. With this understanding we proceeded with the application process, and submitted the required reports in fall of 2023. We were extremely diligent in addressing the required individual exhibits, and required showings for an amendment. At each turn we found positive reasoning for the approval of a rezone and rural development opportunities. We spent 6 months researching all aspects of our application, and CCDCD spent the same amount of time making sure it was an acceptable request, before recommending APPROVAL of the amendment.

The property itself is ideal for meeting the demand for mid-size lots, with rural character home/farm opportunities. There are no critical areas on the entire site, it has a mild slope of roughly 5 degree to the north. There is a 60' easement to the north, which allows access to Highway 112 at a sustained straight stretch for safety, and with utilities at that access point. The property has a fairly uniform setting of timber, to which only a portion of would be removed for lot home sites and the remainder left as buffers.

We also note that all surrounding privately held properties, have, at this time, the exact zoning we are requesting for our parcel, which is CFM5. We are applying to have the same opportunity as those neighboring private properties.

At the previous planning commission meeting to discuss our application, there were 6 of 9 commissioners attending, one of those by Zoom. When our application came up for discussion, I asked the attending commissioners if they had any questions, comments, or clarifications they would like to ask prior to voting. Only commissioner Reandeau asked

questions, and he asked to be recused due to long time friendships with myself and the applicants. No other commissioners spoke up.

The planning commissioners voted 3 to 2 for a denial of the application despite CCDCD staff written, and verbal, breakdown of the showing for an approved amendment. Towards the end of the planning commission meeting, the public is afforded one more chance to speak. At that time I took the opportunity to request from the 3 "no" commissioners, their reasoning to recommend denial, despite an intensive complete application, and a strong approval report from CCDCD staff. I would note that staff also requested at that time, their reasons for denial, so they could explain to the county commissioners. The one planning commission member that voted no via Zoom, clicked off so she did not give a reason for her "no" vote. Another commission member stated that we should have requested a cfm20 zone to provide a larger buffer. Unfortunately that type of zone in this area, would create a "spot zone" as it would be the only parcel in the area with that designation. Spot zones are vehemently discouraged in all areas by the comprehensive plan. The third dissenting commissioner tried to abstain from voting, but because they needed a quorum he voted, and said he agreed with the previous reason and voted "ditto".... literally. Basically no sound reason to reject a complete application, and significant effort by CCDCD staff to research and recommend APPROVAL.

We request that the Clallam County Board of Commissioners read and listen to the facts, exhibits, and conditions for approval of this rezone application. With respect for the applicants application, the Determination of Non-Significance, and APPROVAL issued by their staff, and move to approve the amendment.

Sincerely



Stephen Wirth – Agent for the Applicants

Dennis Yakovich - Applicants



General Public
Comment 3/26/24
Dave Helm

**Clallam County Commissioners Information
Packet distributed Tuesday March 26, 2024 at
the regular weekly Commissioner meeting.**

From the JAMESTOWN S'KLALLAM TRIBE
1033 Old Bly Highway, Sequim, WA 98382
FAX 360-181-4643

October 10, 2023

Board of Clallam County Commissioners
223 E. 4 Street, Suite 4
Port Angeles, WA 98362

Re: Dungeness Floodplain Restoration

Dear County Commissioners,

On behalf of the Jamestown S'Klallam Tribe, I would like to comment on the completion of the floodplain levee as it was intended to become part of the local road network. The new levee is functioning as an outdoor classroom for drawing the public close to the river and watching restoration in progress. It's the Tribe's recommendation to leave the levee incomplete for three years as a better plan transpires. A delay in future decisions to restore the local road network would give time to examine the usage as an unofficial trail and watch the functionality of the levee through storm events without concern for the proposed 2024 road investment. After the nearby neighborhood's traffic generation has been examined for level of service, better decisions can be made with three or more years of transportation data. Thank you for requesting global and community input for determining the future use of the new levee surface. For further information about this recommendation, please contact Hansi Hals, hhals@jamestowntribe.org or me welark@jamestowntribe.org.

Sincerely, Wendy Clark-Getzin, PE Tribal



JAMESTOWN S'KLALLAM TRIBE

1033 Old Blm Highway, Sequim, WA 98282

509/681-1109

FAX 509/681-4643

January 30, 2024

Board of Clallam County Commissioners
223 E. 4th Street, Suite 4
Port Angeles, WA 98362

Re: Levee surface/ Towne Rd. - Dungeness Floodplain Restoration

Dear County Commissioners,

I write regarding the matter of whether Towne Rd. would be constructed atop the lower Dungeness levee. Our Tribal Council would like to reiterate our October 10, 2023 recommendation to delay your decision until neighborhood traffic and the demand/benefits analysis of recreational use are better understood with respect or restoring traffic access.

Jamestown stands ready to assist Clallam County with data gathering. Pending Clallam County's request and direction, we will purchase, install, and monitor a pedestrian counter along the levee. Prior to installing the counter, the 'no pedestrian access' signs should be removed. For context regarding potential use, the Tribe recorded nearly 1,000 daily pedestrian trail users at the Railroad Bridge Park in 2023 (annual count of 333,915). As a reminder, our Tribe remains willing to convey 5.1 acres of property to the County (known as the 'Transverse property', near the 0.41 acre already transferred) for trailhead parking and amenities. Additionally, Wendy Clark-Getzin, PE will be available to assist Clallam County retain a traffic study consultant to evaluate the neighborhood traffic and emergency response routes.

As you know, our Tribe has made a significant commitment to the project and has high interest in the ecological integrity of the Dungeness River floodplain and wetland mitigation sites. It is essential that any development is protective of our Treaty resources. Would you please forward the latest stormwater plan and detailed treatment criteria directly to Wendy Clark-Getzin, at wclark@jamestowntribe.org?

We look forward to continuing our great partnership.

Sincerely,


Loni Greninger, MPA
Vice-Chair/ Director of Culture

cc: Bruce Emery, Director of Community Development, Clallam County



January 29, 2024

223 E 4th Street
Suite 4
Port Angeles, WA 98362

RE: Proposed Dungeness/Towne Rd Levee Road Project - Paving of Levee Located Within
New Floodplain Restoration Project

Dear Clallam County Board of Commissioners,

I respectfully submit this letter on behalf of the Bonneville Environmental Foundation, who serves as the non-governmental organization partner in the Floodplains by Design program. In this role, we work to support broad efforts to increase resilience to floods while also supporting salmon recovery, agricultural resilience, recreation, and smart growth. We do not speak on behalf of any state agency, but rather work to respond to and support communities such as yours who are implementing large-scale integrated floodplain management projects. In this capacity I write to bring information to your attention and offer our support to you and community partners in determining the most effective next steps regarding the Lower Dungeness Floodplain Restoration Project.

I would also like to share concerns regarding the proximity of the proposed paving to a newly completed floodplain restoration project, and the road location on a levee. This levee setback project received approximately \$10 million in grant funding from the Department of Ecology alone, reflecting the strong vision of the County and partners. Now more than ever, communities need the right infrastructure, designed in the right way, and set in the right place. While it can be tempting to move projects ahead with expedience, we have learned that process matters, and can lead to lasting positive solutions that are broadly supported by communities. I offer the following notes for your consideration:

Road Infrastructure: Studies show that road infrastructure plays a significant role in climate change impacts, loss of natural habitat, loss of habitat connectivity and impacts to people and wildlife. Because of limited knowledge years ago, road infrastructure was often placed in floodplains, along shorelines and rivers without an understanding of the negative environmental ramifications and risks to safety and infrastructure. We consider these to be legacy impacts. New environmental knowledge, climate change impacts and updated science should play a role in informing where roads are best located, rather than replacing what went before.

Flooding is the costliest natural disaster in the state of Washington and across the country. Removing infrastructure from harm's way and not placing it there moving forward is a sensible and proactive means of reducing flood risk and protecting communities for the long term.

While context matters, placing road infrastructure on top of levees can lead to hazardous conditions. The pressure, vibrations, and tread marks from vehicles can cause additional stress on an already saturated levee located within a wetland and can lead to necessary closure of level roads during flooding.

6 PPD-Q: In November 2023, EPA granted a petition from three Tribes in recognition of contaminants in tires containing 6 PPD-Q which kills coho salmon and harms aquatic ecosystems. As we look to scenarios of more frequent and severe flooding events consideration of road construction and placement becomes even more important.

Recreation: We understand from local reports that the levee receives significant use by walkers, runners, bikers, birders, and other outdoor visitors. This use occurs despite the County's signs prohibiting pedestrian access. People are thirsty for opportunities to passively recreate outdoors. The nearby (5 miles away) Olympic Discovery Trail at the Dungeness River Nature Center, for example, received 333,915 pedestrian visits (915 per day on average in 2023). The Dungeness River levee, bordering a major riverine restoration project, creates an ideal opportunity for outdoor recreation and education. Before the County paves the levee and forever diminishes the recreational experience, we recommend that the County gage public use by removing the "no pedestrian access" signs, provide rudimentary facilities (porta potties and dog stations), and install and monitor pedestrian counters for a period of at least one year.

Risks from storm events and king tides: The volume of water in major flood events is expected to increase by 20-70% this century. By 2050, high tide flooding on a national scale is expected to be between about 45 - 70 days/year on average. Studies from UW's Washington Sea Grant program that have emerged as recently as December 2023 indicate that risks from king tides hold potential that is far greater than previously thought to damage or destroy homes, farms and infrastructure across Puget Sound. Infrastructure placed within such areas can become hazards themselves, as they can present a false sense of security, burden public works during times of emergency, or dislodge and become a risk to life and property.

Cost increases: The Floodplains by Design team has been tracking construction cost increases that have occurred since 2019 in response to input from regional grantees that budgets were falling short at alarming rates. The region has seen price increases for materials including steel, lumber, cement, and asphalt anywhere from 50-400% between 2019-2022. Budget shortfalls are becoming the norm and can be disruptive to communities managing multiple urgent priorities.

The County may also want to consider additional costs it may incur from updated hydraulic modeling and Quality Assurance Project Plans (QAPPs) that could be required prior to construction because the water is now at the toe of the levee, which was not anticipated during earlier modeling.

Our team recognizes and is humbled by the challenges that communities like yours face and we would be pleased to meet with you to discuss ways that we or other local groups could support collaborative planning to identify pragmatic and feasible approaches to increasing safety for local residents and public works personnel while also honoring the significant

investments that have been made to restore the places and habitats needed by salmon in places that people love and treasure.

We have relationships with local and regional scientists and planning professionals who could provide information and would be able to support conversations to yield durable outcomes for the public, nature, and future generations of Clallam County residents.

As a next step we would be keen to meet on site together with you. BEF could also coordinate with agency experts who provide technical assistance, including members of Ecology's Water Quality and Flood Units. Please feel free to reach out to me at kguillozet@b-e-f.org or by phone at 971-678-2605.

Sincerely,

A handwritten signature in blue ink, appearing to read "Kathleen Guillozet".

Kathleen Guillozet, PhD

Senior Director for Watersheds

Cc: Mr. Bruce Emery, Director of Community Development

 An official website of the United States government

MENU

Safer Chemicals Research

CONTACT US <<https://epa.gov/chemical-research/forms/contact-us-about-chemical-safety-research>>

6PPD-quinone

What is 6PPD-quinone?

Vehicle tires contain the chemical known as 6PPD

<<https://comptox.epa.gov/dashboard/chemical/details/dtxsid9025114>> to prevent tires from breaking down due to reactions with ozone and other reactive oxygen species in the air. When 6PPD reacts with ozone 

<<https://doi.org/10.1021/acs.est.2c08690>> in the air, it forms 6PPD-quinone

<<https://comptox.epa.gov/dashboard/chemical/details/dtxsid301034849>>. Tires wear down

through contact with roads, releasing particles into the environment. When it rains, stormwater from hard surfaces like parking lots and streets washes these particles into streams and other water bodies. As a result, 6PPD-quinone may be present and aquatic organisms can be exposed to it.



Available information on 6PPD-quinone indicates that it is toxic enough to quickly kill some fish. A 2021 publication in the journal *Science*  <<https://doi.org/10.1126/science.abd6951>> linked coho salmon death to 6PPD-quinone in stormwater. Concentrations in stormwater were found to be lethal for coho salmon following exposures lasting only a few hours 

<<https://pubs.acs.org/doi/10.1021/acs.estlett.2c00467>>. Subsequent work identified some other fish species as vulnerable to 6PPD-quinone.

The potential of 6PPD-quinone to have ecotoxic effects and impact salmon populations is a key issue. These fish species have cultural, commercial, and ecological importance, and some coho salmon populations are endangered and threatened. Many Tribes rely heavily on salmon and other



aquatic resources for food and cultural practices. Healthy and accessible salmon populations are critical to the health and wellbeing of Tribes, including the practice and protection of Tribal Treaty Rights.

Limited information is available regarding emissions, fate and transport, and human health effects of 6PPD-quinone. Research regarding promising

stormwater treatment options [\[7\] <https://pubs.acs.org/doi/10.1021/acs.estlett.3c00203>](https://pubs.acs.org/doi/10.1021/acs.estlett.3c00203), such as engineered green infrastructure systems, is ongoing. EPA's researchers and partners across the country are working hard to address these information gaps about 6PPD-quinone. This information will help EPA and state, local, and Tribal partners make more informed decisions on how best to protect human health and the environment.

Key EPA Actions to Address 6PPD-quinone

EPA coordinates with partners and stakeholders to understand, address, and communicate about issues like 6PPD-quinone, and to raise awareness and provide funding opportunities. EPA activities include:

- Building awareness with Tribal partners through EPA sponsored Tribal Partnership Groups and other mechanisms;
- Conducting research to address data gaps, including work on tire wear emissions, fate and transport, ecotoxicity, and management solutions to mitigate stormwater contamination (for additional information on ongoing research, please contact us [\[7\] <https://epa.gov/chemical-research/forms/contact-us-about-chemical-safety-research>](https://epa.gov/chemical-research/forms/contact-us-about-chemical-safety-research));
- Providing grant support to investigate stormwater and 6PPD-quinone data gaps through EPA's Puget Sound Geographic Program [\[8\] <https://epa.gov/puget-sound/funding-and-grants-puget-sound>](https://epa.gov/puget-sound/funding-and-grants-puget-sound);
- Providing funding to support implementation of stormwater management practices including green infrastructure via the Clean Water State Revolving Fund [\[9\] <https://epa.gov/cwsrf>](https://epa.gov/cwsrf). This includes \$1 billion from the Bipartisan Infrastructure Law specifically for addressing emerging contaminants;
 - Case Study of a CWSRF-Eligible Emerging Contaminants Project: City of Seattle (Washington) Public Utilities South Thornton Natural Drainage System Installation [\[10\] <https://epa.gov/system/files/documents/2023-11/wa-6ppd-case-study.pdf>](https://epa.gov/system/files/documents/2023-11/wa-6ppd-case-study.pdf)

- Developed a draft laboratory method for detection of 6PPD-quinone in surface water and stormwater (Draft EPA Method 1634) <<https://epa.gov/cwa-methods>>;
- Developing draft screening values for 6PPD-quinone and 6PPD to protect sensitive salmon and other aquatic life;
- Responding to a petition <<https://epa.gov/assessing-and-managing-chemicals-under-tsca/tsca-section-21#6ppd>> from the Yurok Tribe, the Port Gamble S'Klallam Tribe, and the Puyallup Tribe of Indians to take action on the use of 6PPD in tires.
- Providing funding to support development and commercialization of rubber anti-degradant technologies for tires and other rubber products that are of lower concern for human health and the environment through two 2024 Small Business Innovation Research (SBIR) awards <https://cfpub.epa.gov/ncer_abstracts/index.cfm/fuseaction/recipient.display/rfa_id/718/records_per_page/all>;
- Participating in and partially funding the Interstate Technology and Regulatory Council (ITRC) 6PPD-quinone team  <<https://itrcweb.org/itrcwebsite/teams/active/6ppd-q>> to identify and translate research in cooperation with states, Tribes, and other external entities; and
- Coordinating with federal partners, Tribes, states, and industry.

6PPD-quinone Resources, Data and Tools

The science on 6PPD and 6PPD-quinone continues to evolve. EPA supports new science in a variety of ways and will continue to update this page as we learn more.

EPA Data Resources

- CompTox Chemicals Dashboard: 6PPD <<https://comptox.epa.gov/dashboard/chemical/details/dtxsid9025114>>
- CompTox Chemicals Dashboard: 6PPD-quinone <<https://comptox.epa.gov/dashboard/chemical/details/dtxsid301034849>>
- ECOTOX Knowledgebase: 6PPD and 6PPD-quinone
- ChemExpo Knowledgebase: 6PPD <<https://comptox.epa.gov/chemexpo/chemical/dtxsid9025114/>>
- Recent EPA publications about 6PPD and 6PPD-quinone

EPA Funding Opportunities

- Clean Water State Revolving Fund (CWSRF) <<https://epa.gov/cwsrf>>, including the appropriation to address emerging contaminants <<https://epa.gov/cwsrf/clean-water-state-revolving-fund-emerging-contaminants>>.
- Clean Water Indian Set Aside (CWISA) <<https://epa.gov/small-and-rural-wastewater-systems/clean-water-indian-set-aside-program>>, including the appropriation to address emerging contaminants in tribal communities.

- Funding to protect and restore Puget Sound <<https://epa.gov/puget-sound/funding-and-grants-puget-sound>>, including supporting stormwater and 6PPD research via federal interagency agreements (e.g. with the National Oceanic and Atmospheric Administration and the US Geological Survey) and funding for state and academic research teams. See the EPA-funded Puget Sound Stormwater Strategic Initiative [🔗](https://pugetsoundestuary.wa.gov/stormwater-strategic-initiative/) <<https://pugetsoundestuary.wa.gov/stormwater-strategic-initiative/>> for additional funding opportunities.
- The next EPA Small Business Innovation Research (SBIR) <<https://epa.gov/sbir>> solicitation is anticipated to open in June 2024. Please sign up for the EPA SBIR Listserv <<https://epa.gov/sbir/sbir-listserv>> to receive notifications of new funding opportunities.

External Resources

- United States Geological Survey [🔗](https://www.usgs.gov/centers/columbia-environmental-research-center/science/6ppd-exposure-and-effects-research-columbia) <<https://www.usgs.gov/centers/columbia-environmental-research-center/science/6ppd-exposure-and-effects-research-columbia>>
- Washington State Department of Ecology [🔗](#)
- Puget Sound National Estuary Program: Stormwater Strategic Initiative [🔗](https://pugetsoundestuary.wa.gov/stormwater-strategic-initiative/) <<https://pugetsoundestuary.wa.gov/stormwater-strategic-initiative/>>
- California Department of Toxic Substances Control [🔗](https://dtsc.ca.gov/scp/motor_vehicle_tires_containing_6ppd/) <https://dtsc.ca.gov/scp/motor_vehicle_tires_containing_6ppd/>
- Coho Urban Runoff Mortality Syndrome Interactive StoryMap [🔗](#)
- Interstate Technology and Regulatory Council (ITRC) 6PPD-Quinone team [🔗](https://itrcweb.org/itrcwebsite/teams/active/6ppd-q) <<https://itrcweb.org/itrcwebsite/teams/active/6ppd-q>>

Chemical Safety Research Home <<https://epa.gov/chemical-research>>

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Translation, Training, & Tools <<https://www.epa.gov/chemical-research/knowledge-delivery-and-solutions-driven-translation-support-decision-making>>

New Approach Methodologies Research <<https://epa.gov/chemical-research/epa-new-approach-methods-efforts-reduce-use-vertebrate-animals-chemical-testing>>

Chemical Research to Inform Decision Making <<https://www.epa.gov/chemical-research/chemical-research-inform-decision-making>>

Collaborations & Funding <<https://www.epa.gov/chemical-research/safer-chemicals-collaborative-agreements-and-funding-opportunities>>

Collaborative Agreements <<https://epa.gov/chemical-research/collaborative-agreements-computational-toxicology-research>>

Contact Us <<https://epa.gov/chemical-research/forms/contact-us-about-chemical-safety-research>> to ask a question, provide feedback, or report a problem.

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