

GREEN/DUWAMISH AND CENTRAL PUGET SOUND (WRIA 9) IMPLEMENTATION TECHNICAL COMMITTEE



WRIA 9 Implementation Technical Committee Meeting

March 15, 2023 | 9:00 am – 10:15 am

[Click here to join the meeting](#) or call in (Teams audio only) [+1 425-653-6586](tel:+14256536586), [911155469#](tel:+11155469)

Meeting ID: 291 061 535 541

Passcode: uafR9e

9:00 **Welcome & Introductions**

9:10 **Developing a Baseline for Juvenile Fish Passage at Howard Hanson Dam**
Presentation followed by Q&A and group discussion

Fenton Khan,
USACE

The U.S. Army Corps of Engineers is proposing design changes to the downstream fish passage structure. The Recommended Plan includes a fixed multiport collection structure that would allow fish collection and passage from one or two of a set of five intake ports at multiple water levels as the reservoir elevation changes. Once fish are collected into the multiport structure, downstream fish passage through the dam occurs via a steep slope bypass. Now that the Corps has initiated the engineering design phase of the fish passage structure, a variety of biological and hydraulic investigations will be conducted starting in 2023 with an investigation of existing hydraulic conditions and fish passage through the tunnel of the dam using live tagged fish and sensor fish.

For more information: [Howard A Hanson Dam Additional Water Storage Project Section 902 Post Authorization Change Validation Study – Fish Passage Final Integrated Validation Report and Supplemental Environmental Impact Statement. April 2022.](#)

10:15 **Adjourn**

WRIA 9 ITC web page: <http://www.govlink.org/watersheds/9/committees/ImpleTechCmte.aspx>

Participant list:

Cleo Neculae, Fatin Kara, Fenton Khan, Hannah Cutts, Iris Kemp, Jenn Stebbings, Josh Hopkins, Julian Douglas, Kelley Govan, Kollin Higgins, Marc Marcantonio, Matt Goehring, Mike Perfetti, Monica Walker, Nancy Gleason, Rowena Valencia-Gica, Steve Lee, Thaniel Gouk, Tom Keown, Zach Wilson

Round-table Updates and Reminders

Reminder for WRIA 9 CWM Review Team members:

- High-Priority Capital review due Wednesday 3/29; workshop on Thursday 3/30.
- Regreen the Green review due Tuesday 3/28; workshop on Wednesday 3/29.
- Monitoring & Research review due Monday 3/27; workshop on Tuesday 3/28.
- SeaL review due Wednesday 3/29; optional workshop on Thursday 3/30.

Huge thanks to review team members; we appreciate the time and thoughtfulness that you put into your reviews and value your feedback and recommendations.

Newly released!

- State of Salmon in Watersheds report: <https://stateofsalmon.wa.gov/>
- Puget Sound Marine Waters 2021 Overview report: <https://www.psp.wa.gov/PSmarinewatersoverview.php>
- 2022 Pacific Northwest Water Year Impacts Assessment: <https://www.drought.gov/documents/2022-pacific-northwest-water-year-impacts-assessment>
- Washington Dam Project Supports Water and Aquatic Systems – authored by WRIA 9 ITC members Marc Marcantonio and Thomas Keown: <https://awwa.onlinelibrary.wiley.com/doi/full/10.1002/awwa.2054>

Howard A. Hanson Dam (HAHD) Studies – overview by Fenton Khan and Nancy Gleason

Email Iris (ikemp@kingcounty.gov) if you would like to watch the recording.

Baseline biological monitoring studies will be conducted during 2023 and 2024 to inform the design of the new fish passage facility. The “mega” study includes five tasks.

- Task 1: Juvenile fish passage, distribution, and timing into the reservoir and through the dam, and downstream survival estimates. Postponed until spring 2024.
- Task 2: Fish passage and survival through the HAHD Horseshoe Tunnel to understand fish passage and hydraulic conditions of the tunnel to inform design and operations of the tunnel. Moving forward in 2023.
- Task 3: Fish passage and survival through the Green Peter Dam Steep Slope Bypass (Willamette Basin) to collect more data on passage and survival to inform design of HAHD Steep Slope Bypass. Moving forward in 2023.

- Task 4: Computational fluid dynamics (CFD) and biological performance assessment (BioPA) modeling to inform the engineering design. Moving forward in 2023.
- Task 5: Baseline evaluation of debris in the forebay of the dam through the year that could be potentially be entrained in the fish passage facility and passed with fish during passage. Moving forward in 2023.

Further questions? Contact Fenton Khan (fenton.o.khan@usace.army.mil) and Nancy Gleason (nancy.c.gleason@usace.army.mil).