



## Priest Rapids Coordinating Committee Meeting

**Teams**  
**Tuesday, January 23, 2024**  
**9:00 a.m. to 11:20 p.m.**

### Meeting Minutes

#### **PRCC Representatives and Alternatives**

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Curt Dotson, Tom Dresser (Alt), GPUD	Bill Gale, USFWS
Kirk Truscott, Casey Baldwin (Alt), CTCR	Chad Jackson, Andrew Murdoch (Alt) WDFW
Tom Lorz, CTUIR	Keely Murdoch, Brandon Rogers (Alt), YN
Scott Carlon, Justin Yeager (Alt), NMFS	

#### **Meeting Attendees**

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Larissa Rohrbach, Anchor QEA	Shelli Tompkins GPUD
Bryan Nordlund, Facilitator	Scott Carlon, NFMS
Tom Lorz, CRITFC	Bill Gale, USFWS
Kirk Truscott, CTCR	Chad Jackson, WDFW
Curt Dotson, GPUD	Andrew Murdoch, WDFW
Tom Dresser, GPUD	Keely Murdoch, YN
Tim Taylor, GPUD	

#### **Action Items**

- C. Dotson will inform the PRCC of the 2025–2027 Smolt Survival Study Plan.
- K. Murdoch will send information on passive integrated transponder (PIT)-tagging of upper Columbia Basin hatchery groups to Real Time Research (RTR) for use in their avian predation evaluation.
- A. Murdoch and C. Jackson will discuss with the PRCC in an upcoming meeting a specific request to Grant PUD from Washington Department of Fish and Wildlife (WDFW) for acoustic tag data, including how those data may be used in new analyses.

#### **Review Items**

- The updated draft 2024 Chinook Salmon Sub-Yearling Workshop Agenda was forwarded to the PRCC following the meeting on February 20.

- The request for No Net Impact (NNI) fund support of the 2024 Chinook Salmon Sub-Yearling Workshop was distributed on January 22.

### **Decisions and Approvals**

- The PRCC approved the NNI funding (H601) request of \$313,929 from RTR on *Avian Predation on ESA-Listed Juvenile Salmonids on the Middle Columbia River, 2024*. An evaluation of the various PIT-tagged hatchery groups will be included, with a focus on steelhead.
- The PRCC approved the NNI funding (H601) request of \$25,000 for the *Northern Pikeminnow Fishing Derby 2024* from the Quincy Valley Chamber of Commerce/Tourism Association (Quincy).

### **I. Welcome, Announcements and Agenda Review**

Grant PUD added a discussion to the agenda on the request for NNI funding to partially support the 2024 Chinook Salmon Sub-Yearling Workshop.

WDFW requested a new discussion on the agenda on the recurring topic of Wild Smolt Survival.

T. Dresser introduced S. Tompkins, who manages 65 to 75 contracts for Grant PUD, including for the NNI fund. She was invited to listen today to improve her familiarity with the typical discussions in PRCC meetings.

### **II. Meeting Minutes Status**

The November 28, 2023, PRCC meeting minutes were distributed by Larissa Rohrbach by email on December 21, 2023, with revisions due before the next meeting. No revisions were received. The November 28, 2023, PRCC meeting minutes were approved by all parties present in that meeting (S. Carlon and T. Lorz were not present in that meeting and abstained from approval of the minutes).

Grant PUD's 2025–2027 Smolt Survival Study Plan was approved in the November 28, 2023, meeting. K. Truscott asked, given that study fish have been double tagged with acoustic tags (ATs) and PIT tags in previous studies, has the resulting smolt-to-adult return rate (SAR) been compared between study fish and control fish (as a measure of survival to adulthood)? C. Dotson said no, only juvenile survival through projects has been evaluated. K. Truscott asked whether SAR could be analyzed or whether data are available for interested PRCC members to review. C. Dotson said the Columbia Basin PIT Tag Information System (PTAGIS) records could be used to retrieve that information and asked whether study fish should be removed from an evaluation of SARs because of their treatment. K. Truscott said he would be interested in evaluating whether there is a significant difference in SARs between treatment and study fish, understanding that there may not be a cause-and-effect relationship. C. Dotson said he understands the interest and would want to review the data. B. Nordlund asked whether any data show that AT-tagged fish survive to adulthood.

K. Murdoch said that is an interesting idea and that the ATs used for the Juvenile Salmon Acoustic Telemetry System studies now are about the size of a PIT tag but that she does not know the effect of double tagging. T. Lorz said Columbia River Inter-Tribal Fish Commission asked the same question of the U.S. Army Corps of Engineers (ACOE) related to studies at downstream projects, and the numbers of AT-tagged fish that returned as adults were too small to analyze; even if tagging thousands of fish, few returns are obtained. T. Lorz asked whether this data would be available for others to investigate, such as in PTAGIS, or for others to use in other investigations. C. Dotson said he would review their data plan and respond. T. Dresser answered that the AT data are held by contractors and have not been posted publicly in the past.

### III. Actions Items Review

- *PRCC members will review the 2016 Chinook Salmon Sub-Yearling Workshop agenda and materials and recommend topics or speakers for the 2024 workshop.* The PUD representatives met to discuss the proposed agenda. No additional comments were shared by the PRCC on the agenda. (Note: The updated draft agenda was forwarded on February 20).
- *B. Nordlund will email the PRCC members to schedule a meeting to hear RTR's presentation of avian predation study details for January 8 or 9.*

This item was completed on January 8, and will be discussed in today's meeting.

### IV. Request for NNI funding – RTR's 2024 Avian Predation Work

The proposal from RTR to evaluate *Avian Predation on ESA-Listed Juvenile Salmonids on the Middle Columbia River, 2024*, was distributed on January 4 and was discussed in a special meeting on January 8 along with presentations from RTR and the Bureau of Reclamation biologists (Attachment C to the January 8 meeting minutes).

K. Murdoch said a helpful discussion was had during the January 8 meeting, and RTR appeared to be willing to add an analysis to evaluate the various PIT-tagged hatchery groups separately, for steelhead in particular. She has reviewed the hatchery PIT-tagging records and identified tagging rates for the various upper Columbia Basin hatchery programs. It is her assumption that that work would be added to the task called "Technical assistance to the PRCC," but a revised proposal was not distributed.

C. Dotson agreed that was also his interpretation, and RTR will again scan for coded wire tags to estimate counts of hatchery-origin and natural-origin fish that become PIT tagged for the study at Rock Island Dam. C. Dotson suggested that the minutes from January 8, and today's minutes, can serve as the administrative record showing agreement that these tasks will be done in 2024. K. Murdoch agreed, and said she appreciates that analysis. She agreed to reach out to RTR and Grant PUD with the PIT-tagged hatchery groups to refine the approach to that analysis. She said that 118,000 PIT tags released in 2023.

C. Dotson said that regionally, there are also two groups with the Yakama Nation (YN) working on avian predation: Michael Porter (YN) at the confluence of the Yakima and

Columbia rivers, and Bill Sharp (YN) at Miller Rocks. These groups are in communication with each other.

The PRCC approved the NNI funding (H601) request to support RTR's proposed study on *Avian Predation on ESA-Listed Juvenile Salmonids on the Middle Columbia River, 2024*.

## **V. Request for NNI funding – Quincy Pikeminnow Derby**

A project specification sheet from Quincy regarding the 2024 Northern Pikeminnow Fishing Derby in Wanapum Reservoir was distributed on January 8, 2024 (Attachment A).

T. Dresser said Quincy approached Grant PUD for funding of this event again in 2024 as in previous years. After discussions with professional pikeminnow anglers who fish below the ACOE projects, the organizers have recommended a change in timing of the derby from spring to fall, to occur during October 4 to 6. The awards will be similar to last year, but the organizers have asked Grant PUD to ask whether the PRCC is open to including a grand prize of a side-by-side ATV/UTV.

C. Jackson asked whether there were concerns about steelhead catch and release bycatch by fishing in the spring. T. Dresser noted that identifying bycatch of invasive Northern Pike is definitely called out in the proposal in line with the rapid response plan for the Columbia River, and anglers are asked to immediately report any incidental catch of steelhead.

K. Truscott said the objective is to target pikeminnow greater than 9 inches, and it seems like May is nearer to the spawning period when larger pikeminnow might be caught. He said his only concern is the potential to encounter more steelhead than in May. T. Lorz said that lower in the Columbia River, the best catches occurred around July, closer to the spawning period. The Wenatchee Rotary derby was around June 17 and 18 last year. C. Dotson said capture of larger numbers of smaller fish could also be a benefit because those fish would become the spawners in a couple of years.

B. Gale asked how many pikeminnow were removed in the past, and T. Dresser answered about 900 to 1,000 fish. B. Gale asked, compared to the total population size population and other removal efforts, whether 900 fish is a significant number. T. Dresser said it is likely a very small component of the total population, and the numbers caught are small compared to other removal efforts Grant PUD implements as a result of the Priest Rapids Salmon and Steelhead Settlement Agreement and associated biological opinion.

T. Dresser said another reason Grant PUD has supported Quincy for this derby is to support use of NNI fund dollars within Grant County and an opportunity for local participation. C. Dotson said it is an opportunity to educate the public, bringing awareness regarding predatory fish impacts on salmon, including awareness of the Northern Pike rapid response plan.

B. Gale asked whether other predators could be added to the derby, such as Smallmouth Bass. T. Dresser said Walleye, Channel Catfish, and Smallmouth Bass have not been included in the derby, but it is mentioned at the derby that if other

predators are caught, they should be retained. B. Gale asked whether a category could be added for most predators of any species retained. C Jackson said there are more regulations to navigate when fishing tournaments include game fish, such as Smallmouth Bass and Walleye. He said it may not be possible to add these species this year, and if there is an interest, it will involve other departments in WDFW to avoid violating the Washington Administrative Codes (WAC). B. Nordlund asked whether the WAC concerns are the same for the Smallmouth Bass as for other species. C. Jackson said the WAC covers all game fish; there is annual coordination around contests because there are so many contests and they are so popular. He said the WAC rules were instituted earlier when previous Washington departments merged to form WDFW. WDFW's philosophical change included warm-water game fish invasives in the Columbia River system.

B. Gale said his impression is that NNI funds are meant to directly benefit or improve conditions for salmon survival in the project, and agreed that outreach and education is beneficial, but that those are secondary benefits, and the primary consideration has to be meaningfully moving the needle for salmon survival. He would like to add non-native predators because it makes sense biologically, recognizing the considerations around Walleye and Smallmouth Bass as game fish. K. Murdoch said she would support expanding the predators targeted and asked whether C. Jackson could help the group understand whether that could be done and help to share that information with the derby sponsor. K. Truscott asked what the current catch limits are on bass, catfish, and Walleye. C. Jackson said that in about 2016, the Columbia River was completely deregulated. C. Jackson said contest rules come into effect when prizes are offered for other warm-water game fish. There are post-release survival metrics that are monitored in other reservoirs, and he could bring that information to the PRCC or Quincy if it is of interest. K. Truscott suggested continuing to focus the effort on the species that are eating the most salmon in the river; if the derby is opened to other species, people will focus on other species instead of the most aggressive predators. B. Gale asked whether the organizers could collect the data on non-target species that are caught during this tournament to better understand whether the derby can be tweaked to better target all salmon predators. T. Dresser said that, based on past experience, catch of Walleye and Smallmouth Bass was small and agreed that data can be collected.

K. Truscott asked whether the remaining \$10,000 would be reserved for the raffle prize, which could be a side-by-side ATV/UTV, but that does not seem like enough for that type of vehicle. He said he does not want the current award sizes to be reduced in order to purchase a side-by-side ATV/UTV. He suggested that prizes like high-end boat electronics may attract more experienced anglers and offer an additional benefit for targeting pikeminnow populations. C. Jackson said he is not concerned about the type or size of the prize; in past events, some sponsors had given out boats with outboard motors.

K. Murdoch asked that the number and size of Northern Pikeminnow caught with this October date be compared to past years to understand whether the date change is effective or not. B. Nordlund said there is a temperature threshold for fish to bite, which likely influences the catch. K. Murdoch said the assumption is that if the derby is conducted in May, the Northern Pikeminnow are being targeted during the time when smolts are actively migrating, although implementing the derby in October will remove

fish that would predate on smolts in the spring. C. Jackson said it would be reasonable to ask the sponsor to provide information on participation to confirm whether local participation was also improved by moving to October.

K. Murdoch asked whether the National Marine Fisheries Service (NOAA Fisheries) has concerns about the type of prize as they have in the past. S. Carlon said NOAA Fisheries could approve the side-by-side ATV/UTV as a prize this year.

All parties approved the proposal, with the request that results be brought back to the group for assessing the success of the derby compared to previous years. Their approval is contingent on collecting data on size and number of pikeminnow captured and encounter of other non-native predatory species (Walleye, Channel Catfish, and Smallmouth Bass).

## **VI. Sub-Yearling Chinook Salmon Workshop Planning**

Generally, PRCC members needed more time to consider the agenda (Attachment B). S. Carlon has agreed to coordinate with Richie Graves (NOAA Fisheries) to lead a discussion on survival testing for sub-yearling Chinook at federal projects. A topic has been added to discuss effects of different tagging methods.

C. Dotson said a sub-yearling summer Chinook survival study has not been conducted due to the small size of those fish relative to tag sizes. The Mid-Columbia committees have been holding off on studies until the technology is available. Workshops were held in 2009 and 2016 to evaluate whether a study could be implemented, and attendees came to the same conclusion that the technology was still not available. In 2016, more life-history information was becoming available from natural-origin fish PIT tagged in the tributaries. In recent years, the invention of a much smaller AT (400SS) has been used by Chelan PUD in pilot studies. The Committees have asked for another workshop to understand the technologies and the statistical models that could be used to assess this.

B. Gale asked what final product will be developed to support management decisions. B. Nordlund noted the workshop is meant to inform committees about the state of the science and technology. C. Dotson said the end product of the workshop could be documentation that allows the committees to conclude whether a legitimate and statistically sound survival study on sub-yearlings could be implemented. He said the discussion about specific actions or agreements will be had in the committees afterward. B. Gale asked whether a summary document will be prepared to memorialize the conversions and decisions. C. Dotson agreed the administrative record is important. He said there will be three elements: meeting minutes from the workshop, meeting minutes from subsequent PRCC and Habitat Conservation Plan Coordinating Committee meetings documenting discussion of workshop outcomes, and then statements of agreement prepared stating whether or not sub-yearling survival should be studied.

## **VII. Request for NNI funding – 2024 Chinook Salmon Sub-Yearling Workshop**

A request for NNI funding to support the 2024 Sub-Yearling Chinook Salmon Workshop was distributed one day before the meeting, on January 22 (Attachment C).

C. Dotson said that in 2016, the PRCC paid for the workshop using NNI funding. Expenses included location fees and travel expenses for presenters and lunch (no expenses were paid for presentations or preparation by PUD staff). The approved amount in 2016 was \$15,000, of which slightly more than \$11,000 was spent.

C. Dotson said the 2024 workshop will be held in Wenatchee at either the Chelan PUD or Douglas PUD facilities, and there may be no or low expense. PUD staff are still contacting speakers. A decision was made to cater the lunch. The request at this time is for \$1,500 for catered lunch to start planning.

C. Dotson asked the PRCC to indicate whether they could support using the NNI fund for this purpose.

K. Murdoch noted she is uncertain whether use of NNI funds for a lunch is appropriate; however, that use may be appropriate depending on the number of attendees expected, location, travel needs, and other logistics. It is important to the success of this workshop to have speakers travel to the meeting. She suggested waiting a bit longer to understand all expenses before voting on paying for just the lunch. She said she would also like to talk to others at YN. C. Dotson said he is open to bringing requests in whatever manner is helpful to the PRCC, whether piecemeal or a single larger request after more is known about the travel requests for speakers.

K. Murdoch, B. Gale, and T. Lorz said they would like more time to review within their organizations whether funding portions of the workshop would be an appropriate use of the NNI funds. The other parties said they would support using NNI funds for this purpose to obtain the information the PRCC needs to make their decisions.

## **VIII. Wild Smolt Survival (Recurring Discussion Topic)**

A. Murdoch said WDFW is in a process of data assembly and discovery to continue working on this topic. At this time, WDFW is requesting raw acoustic data from all three Mid-Columbia PUDs to do some data mining to understand fish interactions at specific projects beyond project performance. The data requested includes tagging information, fish size, detection history, and route selection. The intent is to ask what more can be learned beyond project-specific survival. WDFW's planned evaluation could be very similar to the paper published by R. Harnish et al.<sup>1</sup> in November 2023 to look at all passage around projects, not simply turbine passage. There is now an abundance of federal AT data that is publicly available, and WDFW is working with Harnish to assemble that data. WDFW is requesting to see whether the PUDs can share similar data.

C. Dotson noted the acoustic telemetry datasets can be formatted in a number of ways, and asked A. Murdoch to send a request to Grant PUD to ask for specific formats and indicate some of the potential uses for the data. A. Murdoch agreed to the need to specify what they would be assessing before the next meeting. He said WDFW are trying to learn something without having to tag more fish.

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<sup>1</sup> Harnish, R. A., K. D. Ham, J. R. Skalski, R. L. Townsend, and R. A. Buchanan, 2023. "Factors Affecting Powerhouse Passage of Spring Migrant Smolts at Federally Operated Hydroelectric Dams of the Snake and Columbia Rivers." *Canadian Journal of Fisheries and Aquatic Sciences* 00:1–18.

C. Jackson reminded the PRCC that this time on the agenda would be used for collaborative discussions about how the data can be used to the benefit of the committee. He said additional discussion will be brought to the PRCC with WDFW’s specific request for how they would like to use the data.

**IX. 2024 Fish Passage Operations Report**

- **Fish ladder inspections**

C. Dotson gave an update on fish ladder maintenance at Wanapum (WAN) and Priest Rapids dams (PRD). Only one ladder is taken out of service at a time to allow Bull Trout passage. The right-bank ladders at WAN and PRD were taken down on November 27. The WAN right-bank ladder was watered-up on December 22, and the WAN left-bank ladder has been out of service as of January 5. Work is continuing at PRD on the right-bank ladder.

- **Fish spill updates**

No update.

- **Fish counts for 2023 (April 15 – November 15)**

The following are final fish counts for 2023:

Project	Spring Chinook Salmon (Adult + Jack)	Summer Chinook Salmon (Adult + Jack)	Fall Chinook Salmon	Sockeye Salmon	Coho Salmon	Steelhead
Priest Rapids*	18,888	51,102	44,970	235,270	16,651	7,617
Wanapum	19,152	57,251	27,884	228,172	11,461	7,522
Rock Island	17,619	51,574	17,628	247,772	17,690	8,326

**UPDATES**

**X. Review of Outstanding NNI Funded Projects**

- **Lower Wenatchee Instream Flow Enhancement Project Phase II**  
(No update anticipated)
- **Northern Pike Removal (2022-2024)**  
(No update anticipated)
- **WDFW PIT tag barge**  
(no update anticipated)
- **2024 Quincy Northern Pikeminnow Derby**  
(2024 Proposal for PRCC Approval)
- **2024 RTR Avian Predation study**  
(2024 Proposal for PRCC Approval)



**XI. Subcommittee Updates**

Nordlund has forwarded the latest subcommittee distributions he has received to date to PRCC members and alternates.

- Priest Rapids Fish Forum—did not meet in February, next meeting March 6.
- Habitat Subcommittee—met February 8, next meeting March 14.
- Fall Chinook Work Group—met October 3, next meeting May 7.
- Hatchery Subcommittee—met January 17, next meeting February 21.

**XII. SOAs discussed in 2024**

SOA number	Key Words	Last Discussed	Status
2023-02	Survival Study	November 28, 2023	Approved November 28; final revisions and SOA distributed on December 11, 2023

**XIII. Next Meetings**

The next PRCC meeting is scheduled for February 27 at 9:00 a.m., virtual only.

No USFWS representation will be present at the meeting in February, and B. Gale will coordinate with B. Nordlund as needed.

**XIV. Attachments**

- Attachment A – 2024 Northern Pikeminnow Fishing Derby project specification sheet
- Attachment B – 2024 Chinook Salmon Sub-Yearling Workshop Agenda
- Attachment C – PRCC NNI Funds Project Specifications Sheet: 2024 Chinook Salmon Sub-Yearling Workshop

**PRCC NNI Funds  
Project Specification Sheet  
Northern Pikeminnow Fishing Derby 2024**

**Date submitted:** January 23, 2024  
**Project Sponsor:** Quincy Valley Chamber of Commerce - Quincy Valley Tourism Association  
**Project Liaison:** PRCC Representative – Tom Dresser ~ TDresser@gcpud.org  
**Project Title:** 2024 Northern Pikeminnow Fishing Derby – Wanapum Reservoir  
**Project Type:** Predator Removal (Northern Pikeminnow)

**Location:** The Northern Pikeminnow Fishing Derby (derby) is located on the mainstem of the Columbia River in Washington State and extends from the forebay of Wanapum Dam (above the boat restricted zone) to the tailrace of Rock Island Dam (below the boat restricted zone).

**Short description:** The goal of the Northern Pikeminnow Derby is to remove as many predators (northern pikeminnow) as possible over a three (3) day fishing derby during 2024 (**Friday-Sunday, October 4-6<sup>th</sup>, 2024**).

**Project description:** The QVCC will host a northern pikeminnow fishing derby (in 2024) at Crescent Bar, Washington or another location located on the Wanapum Reservoir. The overall goal of the derby is to remove as many predators (northern pikeminnow) from the Wanapum Reservoir (above the Wanapum Dam boat restricted zone to below the Rock Island Restricted zone) as possible during the three (3)-day event.

The participants will catch northern pikeminnow by rod and reel during the time periods specified in the derby rules. Northern pikeminnow will be removed from the reservoir waters for inspection by QVCC derby officials and Grant biological staff as appropriate. Northern Pikeminnow shall be turned into the QVCC derby officials at locations specified for inspection and subject to the following restrictions: Derby participants and the QVCC shall comply with all applicable Washington State Fish and Wildlife Laws.

If **Northern Pike** are caught, anglers are required to retain and immediately present the fish to QVCC derby officials with details on where the fish was collected. QVCC derby officials are required to preserve all northern pike caught (by freezing) and notify the Grant PUD Representative (Tom Dresser - [Tdresse@gcpud.org](mailto:Tdresse@gcpud.org)) immediately.

The PRCC has agreed that the total not-to-exceed amount of \$25,000.00 will be used to conduct activities associated with the northern pikeminnow derby (advertising, banquet, cash awards, etc.). The cash prize system will include a youth and adult division, which will consist of the following cash awards.

**Youth Division.**

- |                            |  |
|----------------------------|--|
| (1) Largest Fish =         | 1 award \$599                              |
| (2) Weight Total (Top 1) = | 10 total awards; Total prize pot = \$4,100 |
| (3) Smallest Fish =        | 1 award; \$200                             |

**Adult Division.**

- |                            |  |
|----------------------------|--|
| (1) Largest Fish =         | 1 award \$599                              |
| (2) Weight Total (Top 1) = | 10 total awards; Total prize pot = \$4,100 |
| (3) Smallest Fish =        | 1 award; \$200                             |

Remaining funds (after covering advertising, banquet costs, etc.) which is estimated to be \$10,000 will be used to purchase prizes for a raffle. Raffle tickets will be awarded as follows to encourage fishing efforts on pikeminnow >9".

- (1) 1 ticket for each pikeminnow turned in measuring over 9" long, and
- (2) 1 ticket for every 10 pikeminnow measuring under 9" long.

All prizes will be awarded at the banquet immediately following the final weigh-in

QVCC shall be responsible for all services related to the planning and organization of the derby which includes but is not limited to; marketing/advertisement (newspaper, radio, TV, website, Facebook and Twitter), registration (website, local stores, and mail-in), banners and posters, fishing seminar, associated prizes and/or awards, food, labor, equipment (measuring boards, scales, sound system, wrist bands, vests, paper products) and fish disposal.

QVCC shall provide the Grant PUD Representative; Tom Dresser ([Tdresse@gcpud.org](mailto:Tdresse@gcpud.org)) a written summary by Oct 31, 2024, with the following information.

1. Total funds expended,
2. Total number of anglers participating,
3. Number of boats participating,
4. Residency (zip code) for all participants,
5. Total number of northern pikeminnow removed during 3-day event.
6. Total weight for all northern pikeminnow removed during 3-day event.
7. Average weight of northern pikeminnow removed during 3-day event.
8. Overall cost per fish removed; and
9. Prizes awarded.

## Subyearling Chinook Salmon Passage Survival Workshop

June 11, 2024

Douglas PUD Auditorium or Confluence Technology Center [TBD]

[Address] Wenatchee WA

Draft Agenda

<b>I.</b>	<b>Welcome</b> A. Review Agenda (John Ferguson Bryan Nordlund) Time slots include presentations and discussions. Please hold questions until the end of the presentations. Identify “parking lot” items for further discussion.	[8:00 a.m.]
<b>II.</b>	<b>PRCC-, HCP-, and Federal-Specific Requirements and Policy Frameworks</b> A. Grant PUD (Curt Dotson) B. Chelan PUD (Lance Keller) C. Douglas PUD (Tom Kahler) D. Federal (Ritchie Graves/Scott Carlon) - <b>Bryan</b>	[8:15 a.m.]
<b>III.</b>	<b>Project-Specific Challenges (e.g., behavioral, biological, logistical)</b> A. Grant PUD (Curt Dotson) <b>BREAK</b> B. Chelan PUD (Lance Keller) C. Douglas PUD (Tom Kahler)	[9:00 a.m.]
<b>IV.</b>	<b>Rock Island Behavioral Investigation Results</b> A. Four Peaks (Erika Rubenson) - <b>Lance K</b>	[11:15 a.m.]
	<b>LUNCH (brown bag / provided) [TBD]</b>	[12:15 p.m.]
<b>V.</b>	<b>How Are Other Projects Measuring Subyearling Survival?</b> A. USGS (Russell Perry) - <b>John F</b> B. PNNL (Ryan Harnish) - <b>John F</b>	[12:45 p.m.]
<b>VI.</b>	<b>Latest Survival Models (i.e., can subyearling survival be studied?)</b> A. UW/Columbia Basin Research (Rebecca Buchanan) - <b>John F</b> B. PNNL (Ryan Harnish) - <b>John F</b>	[1:30 p.m.]
<b>VII.</b>	<b>Tag Technology</b> A. PNNL (Daniel Deng) - <b>Andrew G</b>	[2:15 p.m.]
	<b>BREAK</b>	[2:45 p.m.]
<b>VIII.</b>	<b>Tag Effects (e.g., barotrauma, fish length ranges)</b> A. PNNL (Alison Colotelo) - <b>Andrew G</b>	[3:00 p.m.]
<b>IX.</b>	<b>Updated Life-History Results -Tom K</b> A. USFWS Entiat (Greg Fraser) - <b>Bill G</b> B. WDFW (Tom Desgroseillier) - <b>Andrew M</b> C. Others?	[3:45 p.m.]
<b>X.</b>	<b>Closing</b> A. Comments, “Parking lot” items, Next Steps (John Ferguson/Bryan Nordlund)	[4:45 p.m.]

## Workshop Attendees

Name	Organization
John Ferguson	Anchor QEA, LLC
Bryan Nordlund	Fish Passage Engineering, PLLC
Kristi Geris	Anchor QEA, LLC
Larissa Rohrbach	Anchor QEA, LLC
Erika Rubenson	Four Peaks Environmental Science and Data Solutions
Rebecca Buchanan	University of Washington/Columbia Basin Research
Russell Perry	U.S. Geological Survey
Greg Fraser	U.S. Fish and Wildlife Service
Tom Desgroseillier	Washington Department of Fish and Wildlife
Ryan Harnish	Pacific Northwest National Laboratory
Daniel Deng	Pacific Northwest National Laboratory
Alison Colotelo	Pacific Northwest National Laboratory
Lance Keller*	Chelan PUD
Bill Towey*	Chelan PUD
Catherine Willard	Chelan PUD
Tom Kahler*	Douglas PUD
Andrew Gingerich*	Douglas PUD
John Rohrback	Douglas PUD
Tom Dresser†	Grant PUD
Curt Dotson†	Grant PUD
Rod O'Connor	Grant PUD
Tim Taylor	Grant PUD
Scott Carlon*†	National Marine Fisheries Service
Bill Gale*†	U.S. Fish and Wildlife Service
Chad Jackson*†	Washington Department of Fish and Wildlife
Andrew Murdoch*	Washington Department of Fish and Wildlife
Keely Murdoch*†	Yakama Nation
Kirk Truscott*†	Confederated Tribes of the Colville Reservation

Notes:

\* Denotes HCP Coordinating Committees representative or alternate

† Denotes PRCC representative or alternate

**PRCC NNI Funds  
Project Specifications Sheet**

**Sub-Yearling Workshop – June 11, 2024**

**Date submitted:** January 23, 2024

**Project Sponsor:** Curt Dotson, Grant PUD

**Applicants:** Chelan, Douglas, Grant PUDs

**Project Liaison:** PRCC Representative – Curt Dotson

**Project Title:** Sub-Yearling Workshop – June 11, 2024

**Project Type:** Presentation of “study status” for sub-yearling summer Chinook

**Project Number:**

**Sub-Yearling Summer Chinook Technical Workshop (June 11, 2024):**

All three (3) PUDs have a requirement (in some form) within their governing documents (i.e. FERC License, BiOp, HCP, SSSA) to conduct a valid Project-wide sub-yearling summer Chinook survival studies. Due to limitations in tagging technologies (at the time) and sub-yearling life strategies, those survival studies have not been conducted. In 2016, a summer sub-yearling workshop was conducted for the two (2) committees (HCP and PRCC) to get an understanding of present day tag technologies and additional information that had be learned regarding sub-yearling life strategies. Following that 2016 sub-yearling workshop, both committees agreed that, at this point in time, the PUDs would not be able to conduct a valid Project-wide summer Chinook sub-yearling survival study; but as technologies advanced, re-assessment of the feasibility of conducting a valid survival study would be looked at.

The goal of this workshop, at the request of the PRCC, is to provide committee (PRCC and HCP) members an update on the status of tag technologies, tagging methods, tag affects, life histories strategies and study designs; as they relate to conducting a valid summer Chinook sub-yearling survival study through a (Chelan, Douglas, Grant) hydroelectric Project on the upper Columbia River – seeing what new advancements regarding conducting a valid sub-yearling summer Chinook survival study have taken place since the 2016 sub-yearling workshop.

This proposal/request for NNI funding is to cover some of the costs associated with putting on this sub-yearling workshop. In preparation for the 2024 Sub-yearling Workshop, a number of experts from specific fields have been asked to present at this workshop. Due to the amount of information that will be presented at this year’s workshop, lunch will be catered to allow more time for presenting at the workshop. This NNI funding request is to cover just the costs associated with the catered lunch for the workshop.

The request for the 2024 sub-yearling summer Chinook workshop came from the PRCC/HCP and this request is for some of the costs associated with putting on this workshop be covered by the PRCC. The amount of this NNI funding request is for expenses up to \$1,500.00.